



Service manual  
COMPETENZA  
ONOFF Series  
(LCAC ON/OFF 50Hz **R410A**)

2021.07



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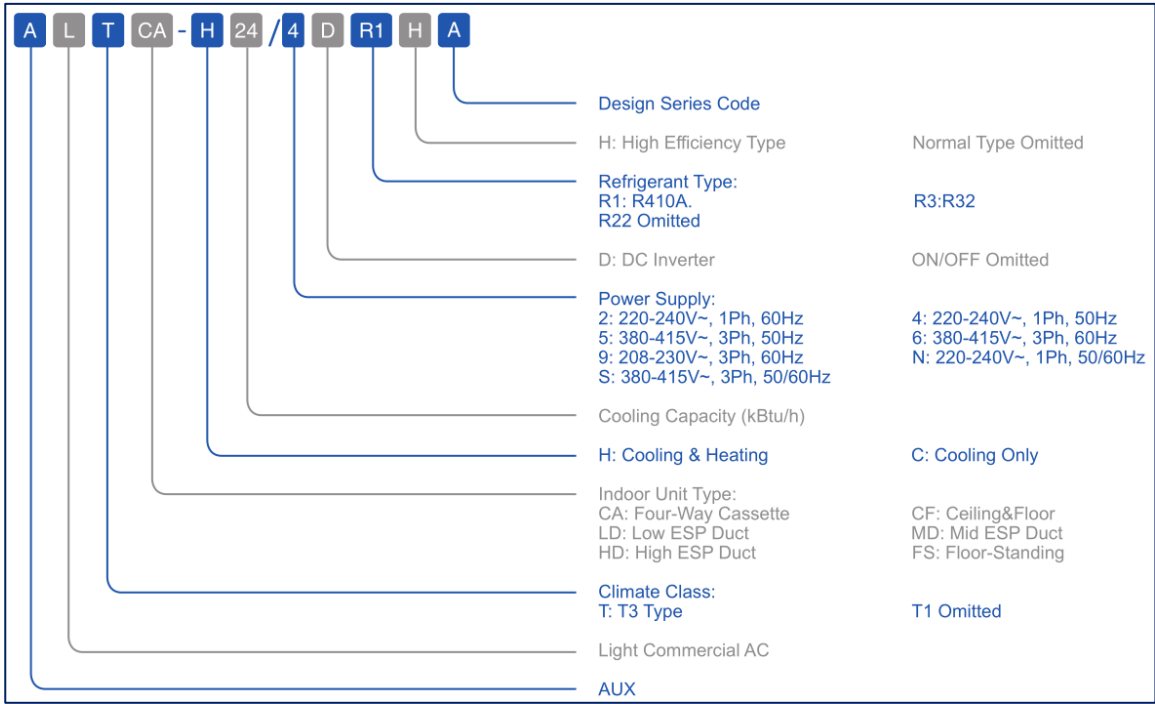
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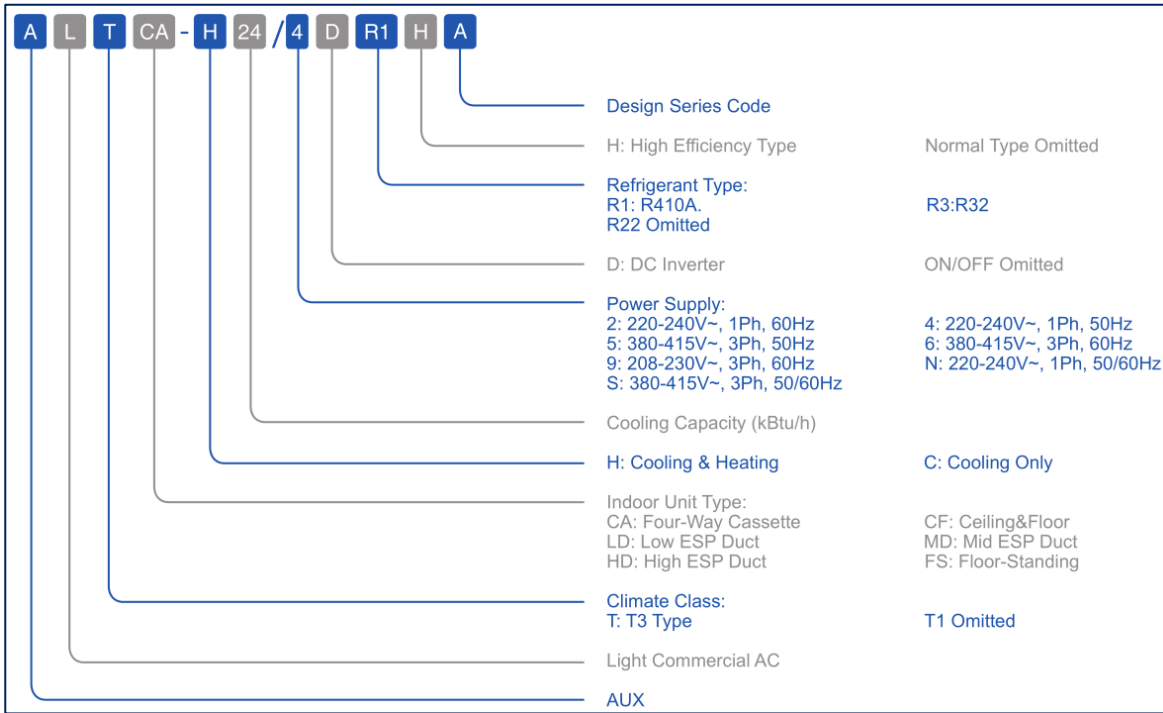
# Part1 General information

## 1. Nomenclature

### Indoor Unit



### Outdoor Unit



## 2. Unit appearance

### 2.1 Cassette

| Cassette Body                                                                     | Model       | PANEL                                                                                               |
|-----------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------------------------------|
|                                                                                   |             | Optional                                                                                            |
|  | CO-4C 12HNX | <br>CO-4C/pan 8D1 |
|                                                                                   | CO-4C 18HNX |                                                                                                     |
|  | CO-4C 24HNX | <br>CO-4C/pan 8D2 |
|                                                                                   | CO-4C 36HNX |                                                                                                     |
|  | CO-4C 48HNX |                                                                                                     |
|                                                                                   | CO-4C 60HNX |                                                                                                     |

### 2.3 Duct

| PICTURE                                                                             | Capacity | Model      |
|-------------------------------------------------------------------------------------|----------|------------|
|  | 18k/Btu  | CO-D 18HNX |
|                                                                                     | 24k/Btu  | CO-D 24HNX |
|                                                                                     | 36k/Btu  | CO-D 36HNX |
|  | 48k/Btu  | CO-D 48HNX |
|  | 60k/Btu  | CO-D 60HNX |

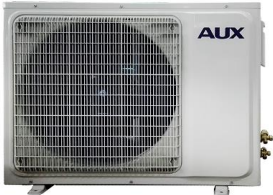
### 2.4 Ceiling floor(F)

| PICTURE | Capacity | Model |
|---------|----------|-------|
|---------|----------|-------|

**R410A T1 ON/OFF LCAC B7 Series**

|                                                                                   |         |            |
|-----------------------------------------------------------------------------------|---------|------------|
|  | 18k/Btu | CO-F 18HNX |
|  | 24k/Btu | CO-F 24HNX |
|                                                                                   | 36k/Btu | CO-F 36HNX |
|  | 48k/Btu | CO-F 48HNX |
|                                                                                   | 60k/Btu | CO-F 60HNX |

**2.5 Outdoor Units**

| Capacity<br>(BTU) | Picture                                                                             | Capacity<br>(BTU) | Picture                                                                               |
|-------------------|-------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------|
| 12K               |  | 18K               |  |
| 24K               |  | 36K               |  |

|         |                                                                                   |  |  |
|---------|-----------------------------------------------------------------------------------|--|--|
| 48K、60k |  |  |  |
|---------|-----------------------------------------------------------------------------------|--|--|

## Part2 Features

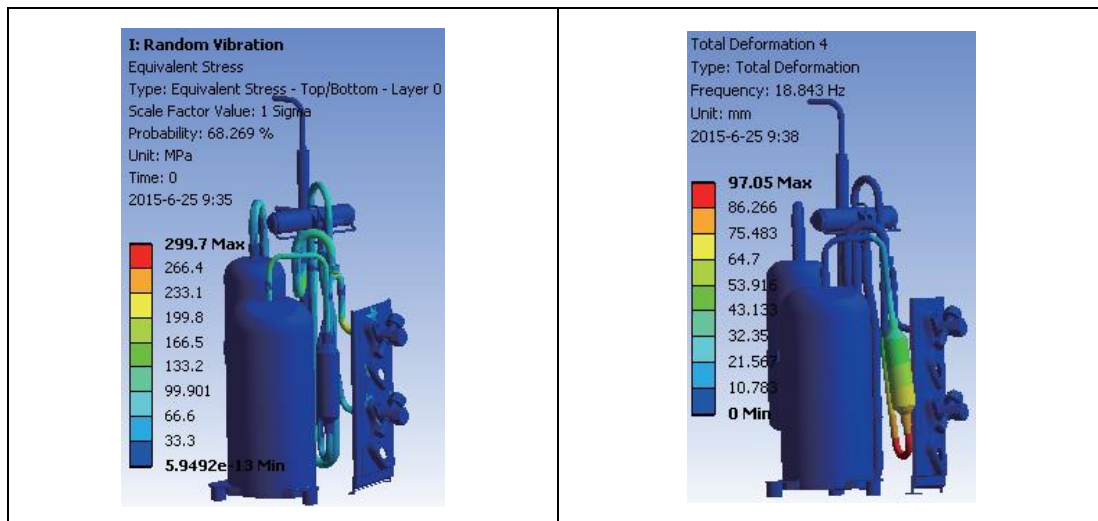
### 1. Outdoor Units

#### 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.

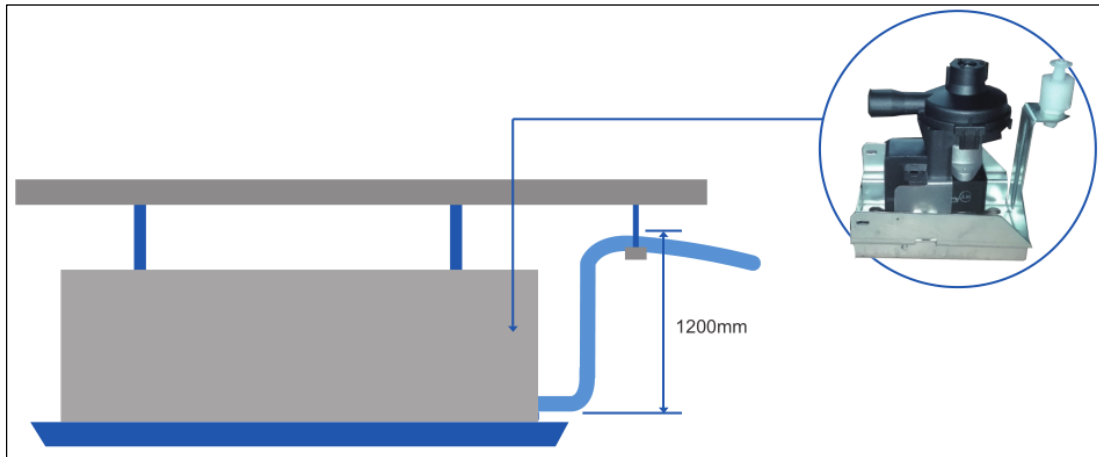


## **2. Four-way Cassette**

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.

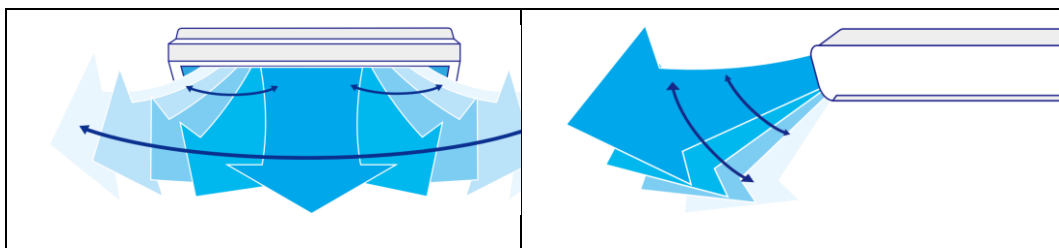
### **3. Ceiling Floor**

#### **3.1 Ceiling Floor C5 Type**

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.



## **3.2 Ceiling Floor F Type**

### **3.2.1 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.



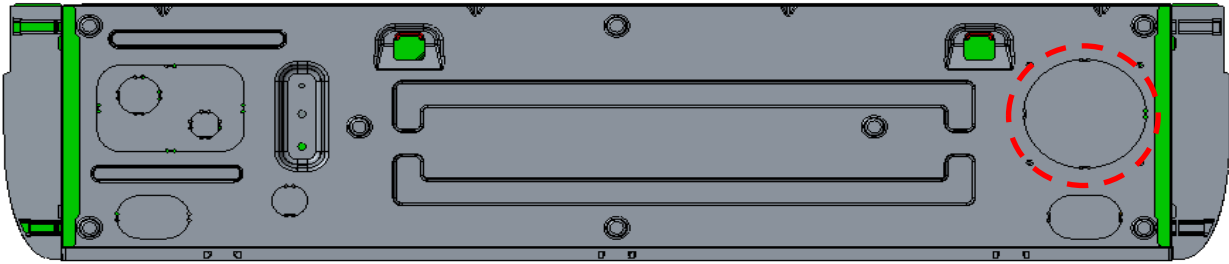
#### **Strong air supply**

Super air supply distance, up to 15m, the air supply volume is higher than the industry level to meet the circulation air supply of the whole room.



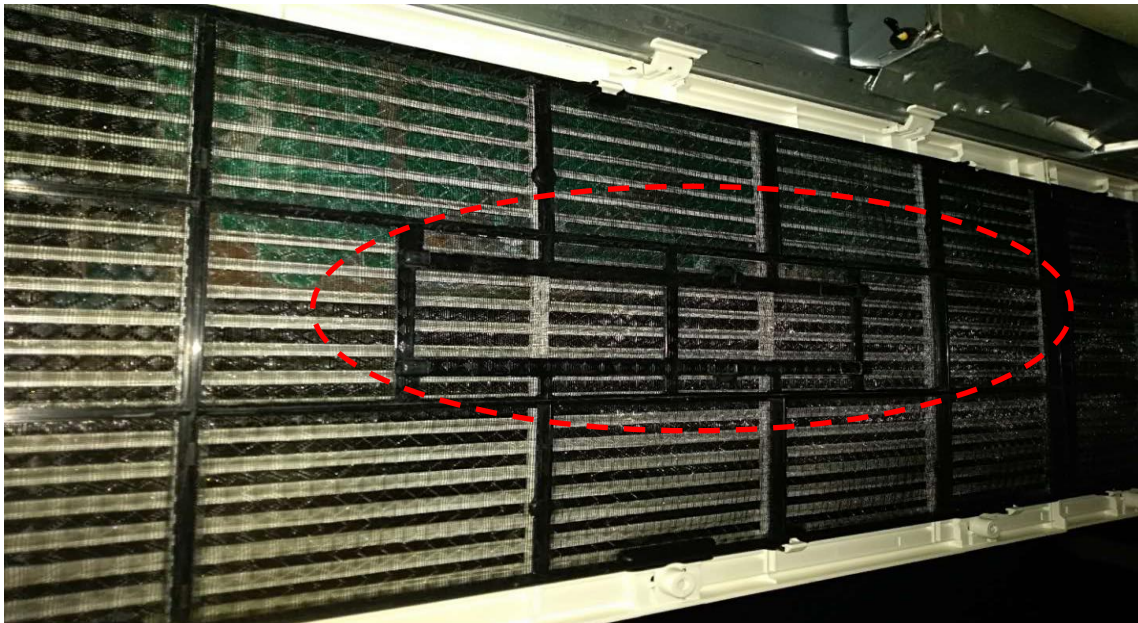
### **Bring fresh air**

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**

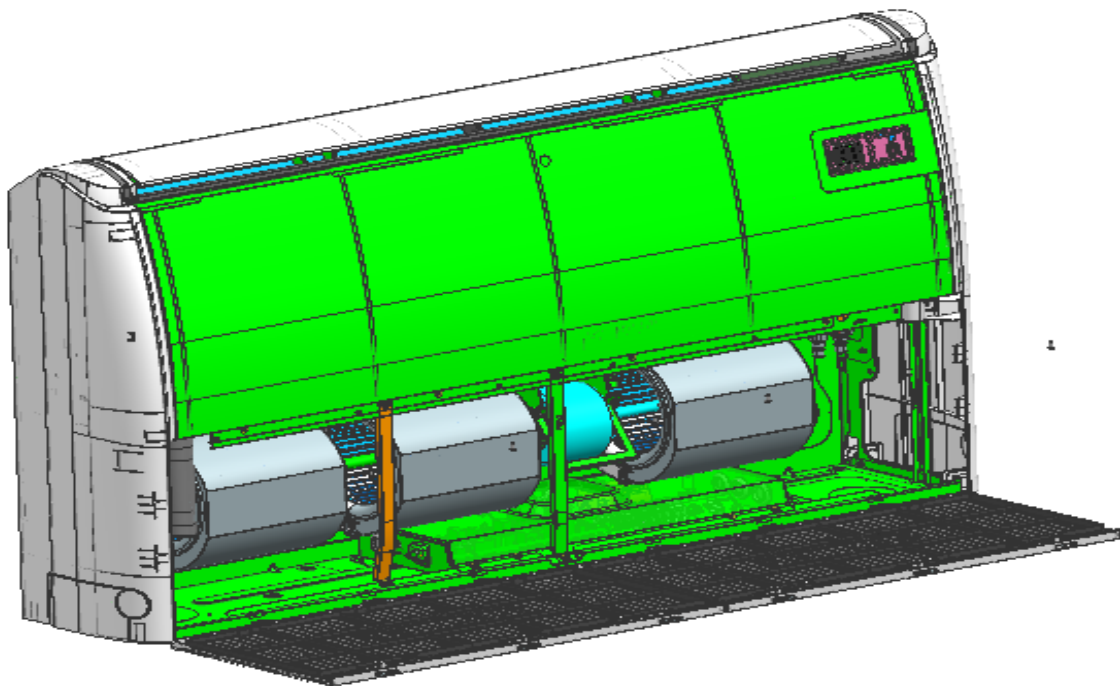
High quality wind wheel/turbine selection, using simulation design, the lowest noise than the industry level.



### 3.2.2 Convenient and efficient

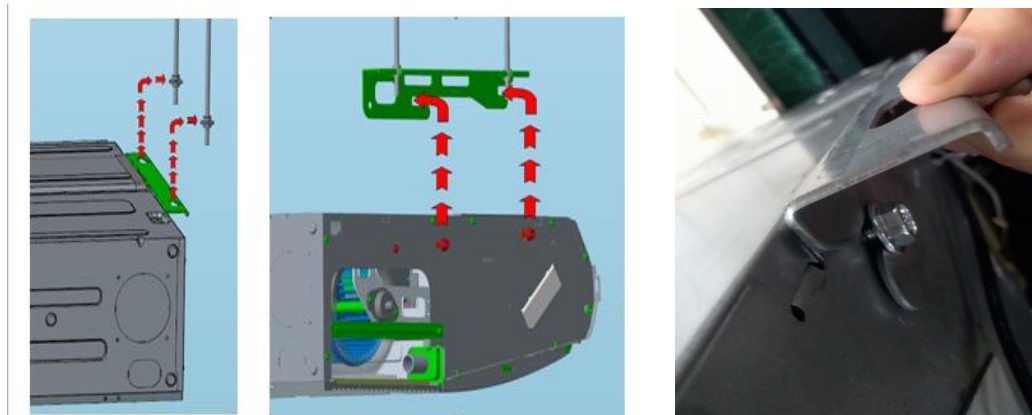
**Easy unpick and wash**

Return air grille, filter netease 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



### **3.2.3 Stable And Reliable**

**The face plate is elegant, the display board is beautiful**

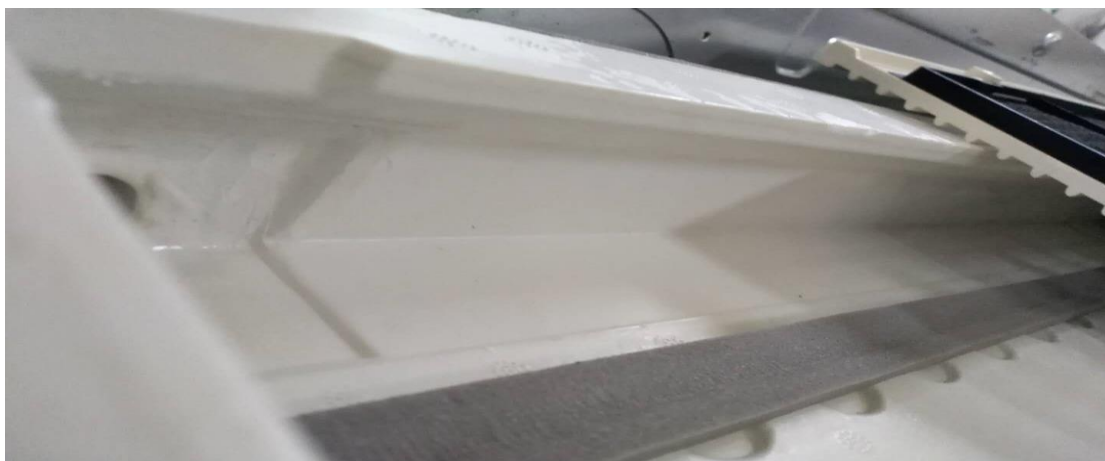
Matte white panel design, high-end elegant

Lamp board design beautiful, and good sealing, moistureproof, 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

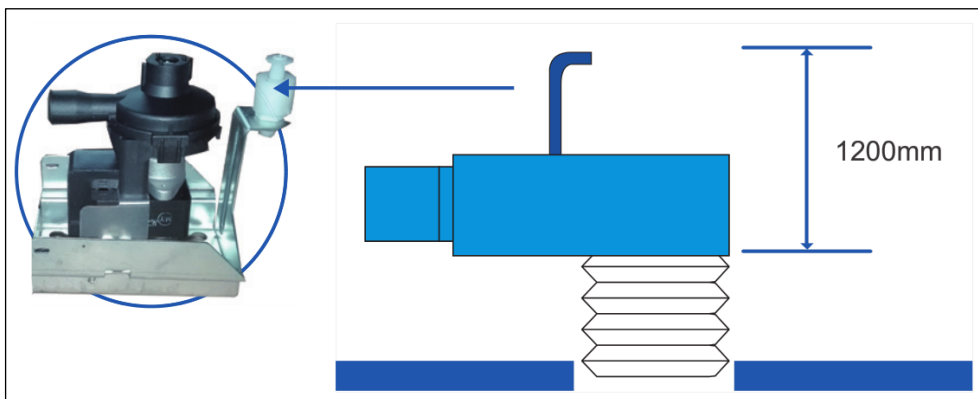


## 4. Duct

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.

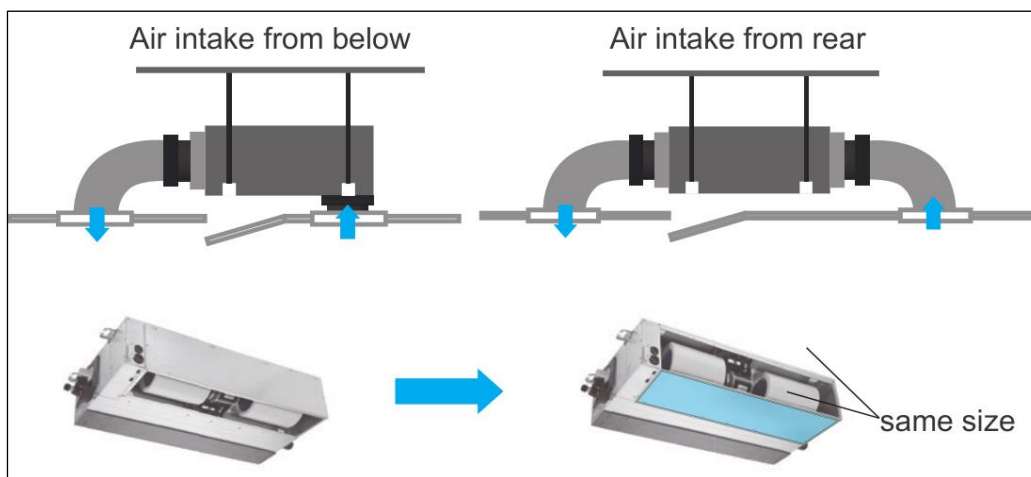
### **Built-in Water Pump (Optional)**

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



### **Flexible Air Intake Options**

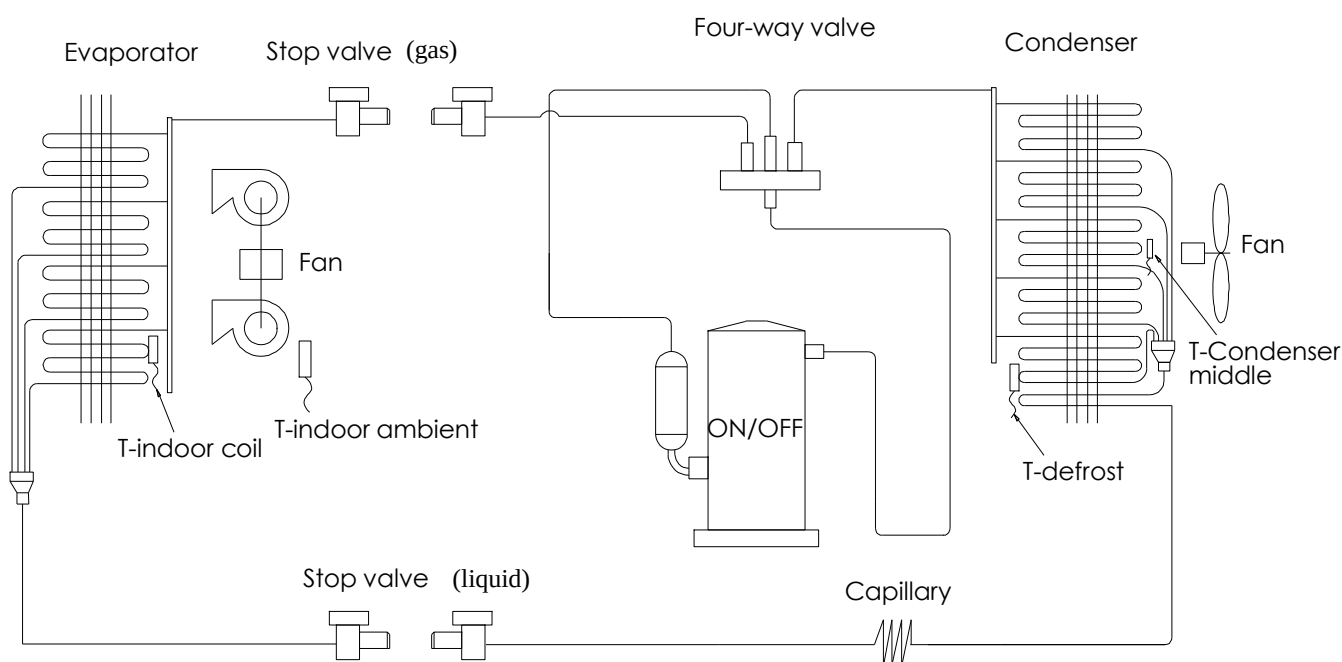
Air intake from rear as standard, from bottom is optional. The size of the plate from bottom is the same as the flange from back, which makes it convenient to change installation style due to different decoration requirements.



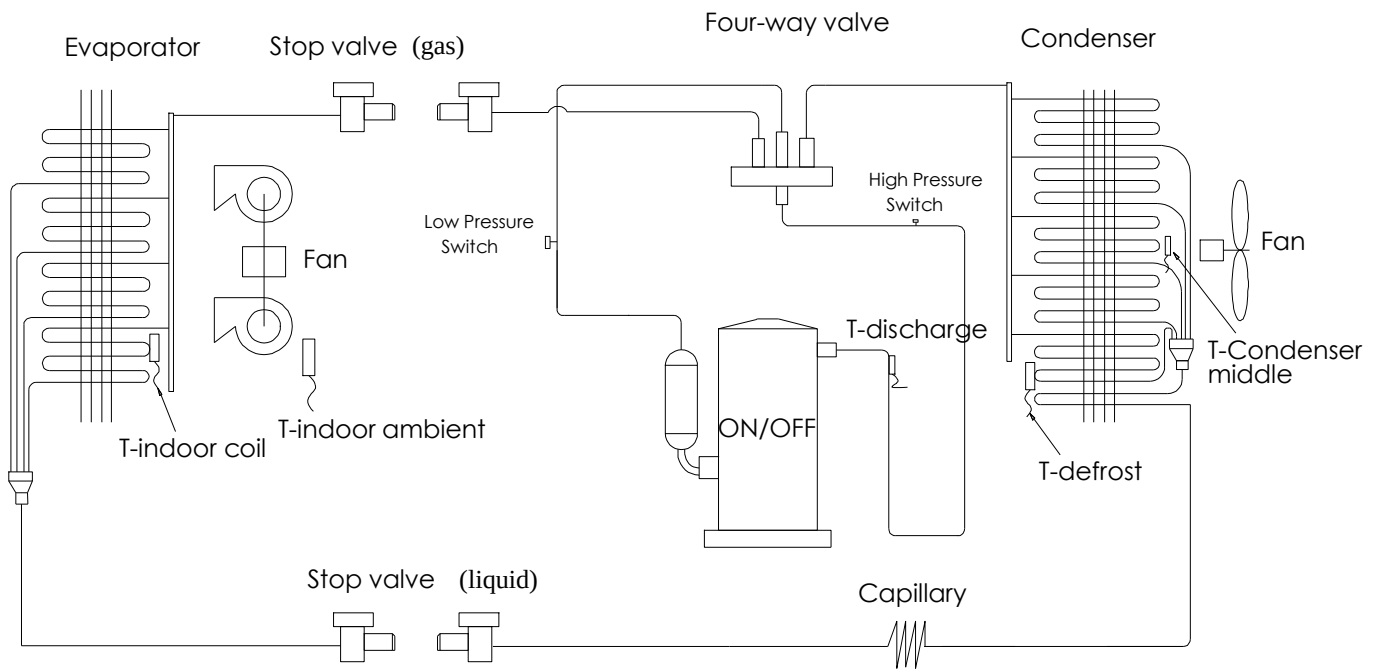
## Part3 Piping System

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.

### 1. 12K,18K,24K,36K (1Ph~)



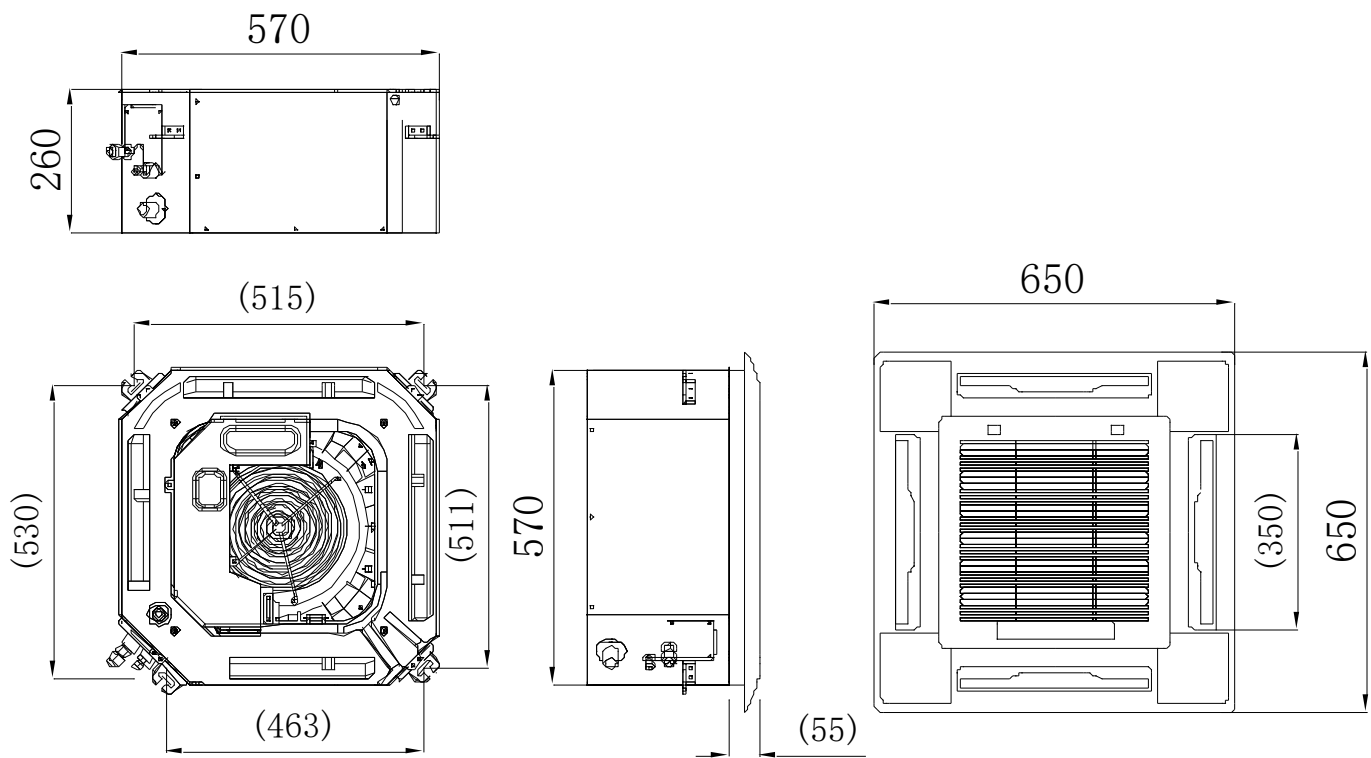
## 2. 36K,48K, 60K (3Ph~)



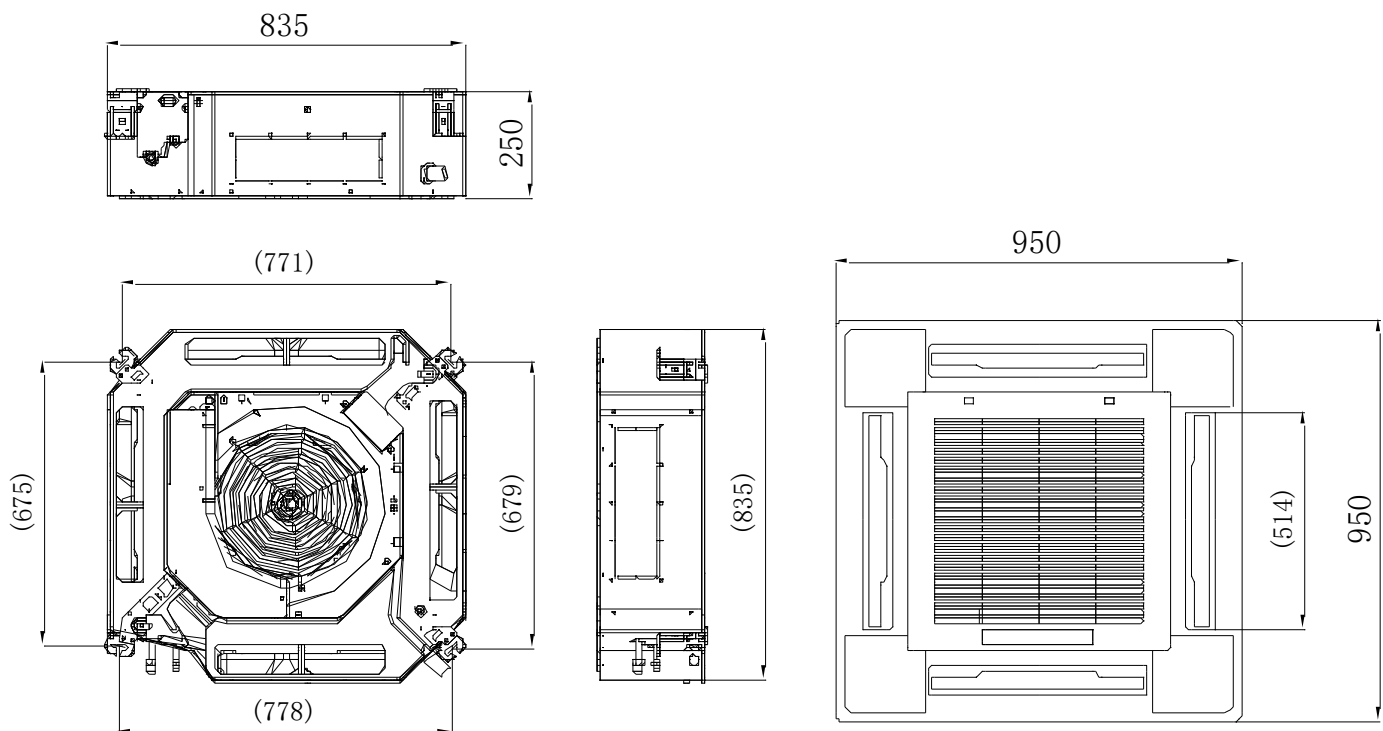
# Part4 Dimension

## 1. Cassette

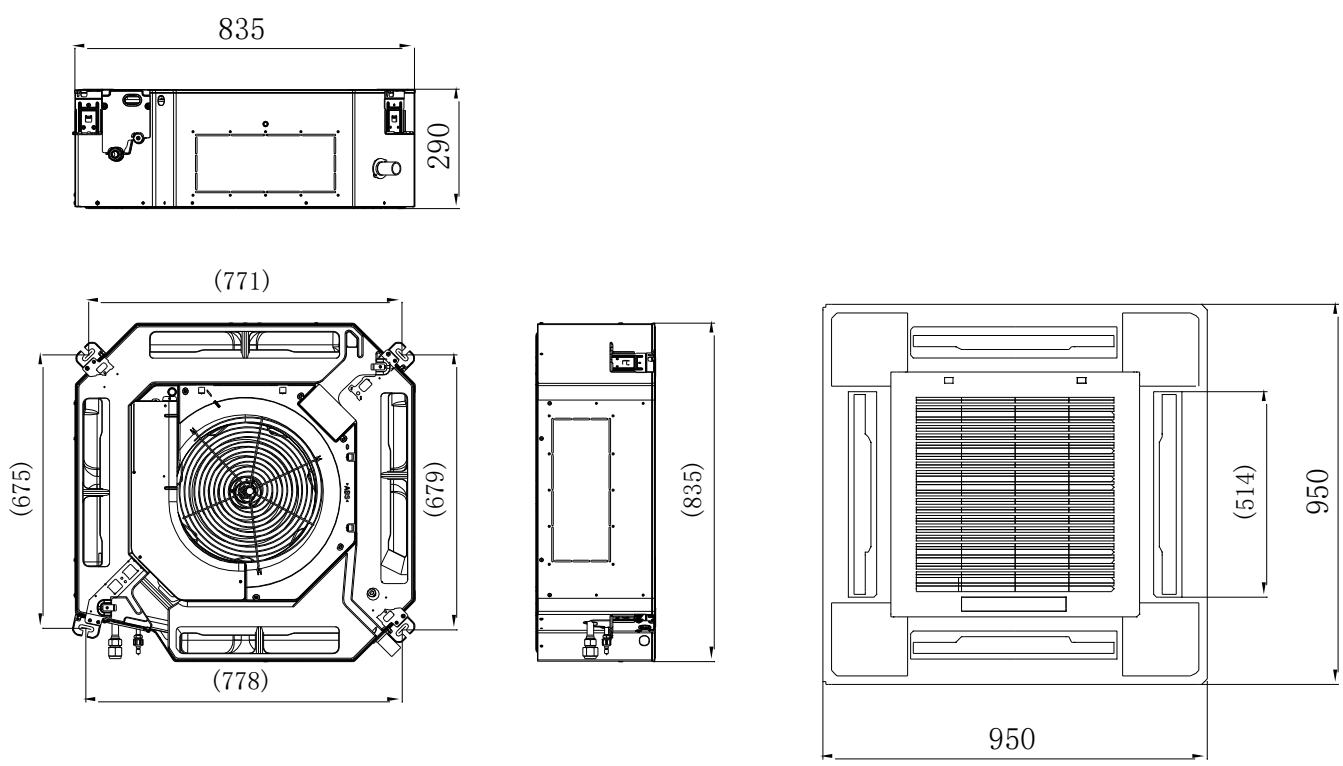
### 1.1 CO-4C 12HNX, CO-4C 18HNX



**1.2 CO-4C 24HNX, CO-4C 36HNX**

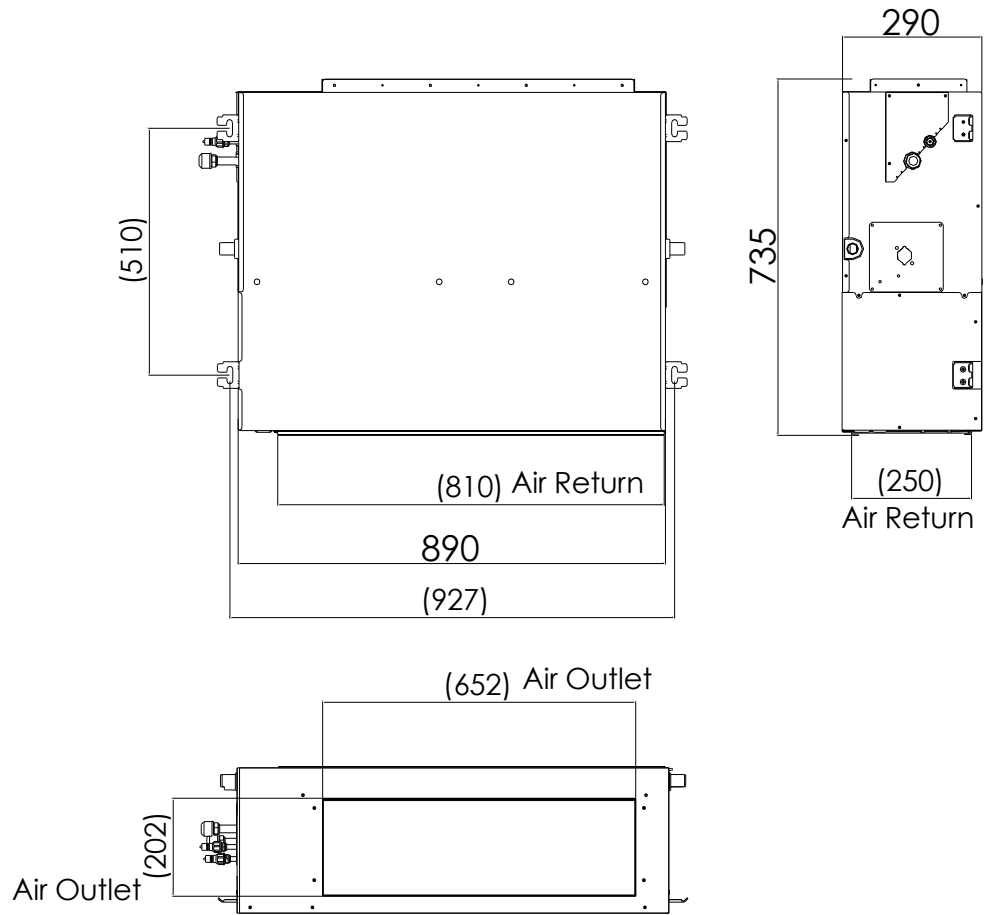


**1.3 CO-4C 48HNX, CO-4C 60HNX**

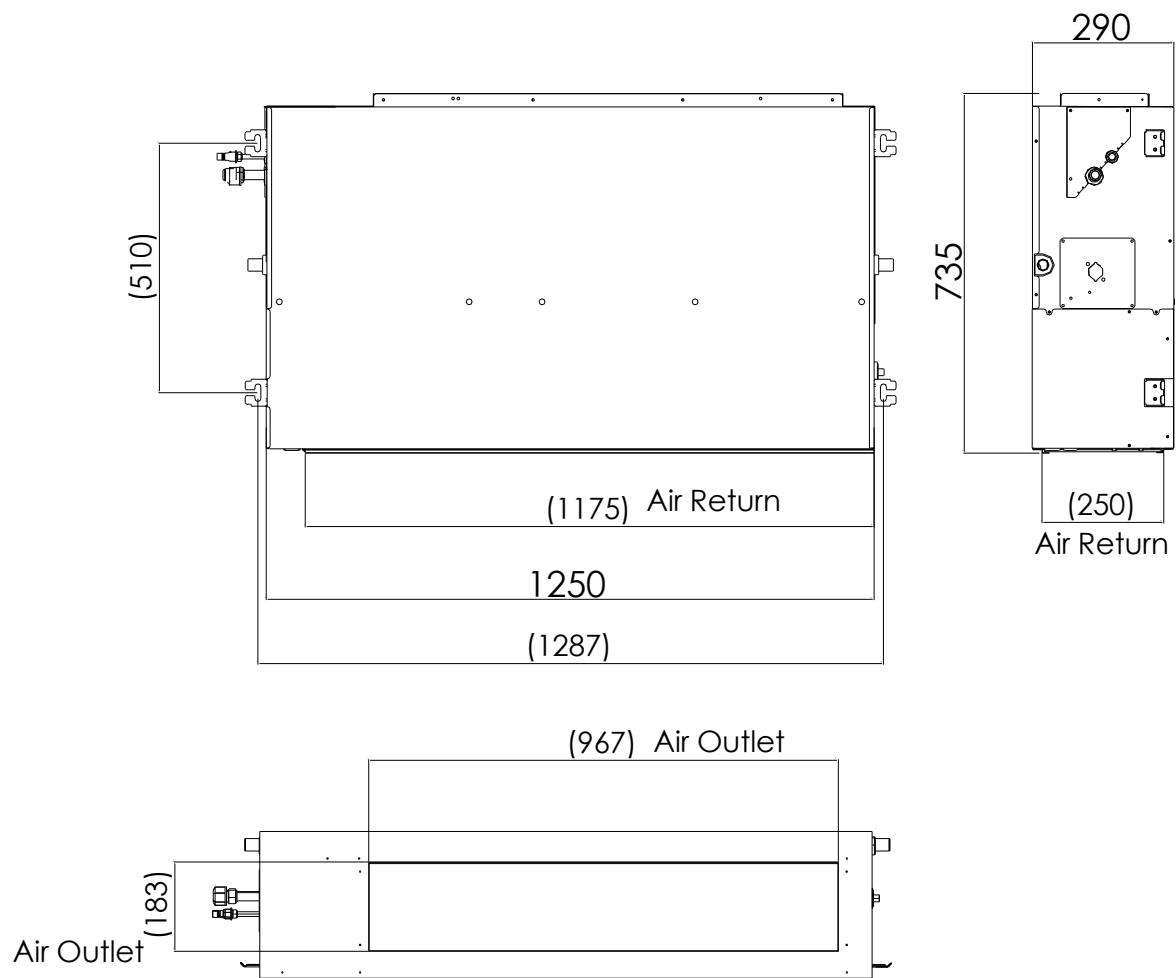


**2. Duct**

**2.1 CO-D 18HNX, CO-D 24HNX, CO-D 36HNX**

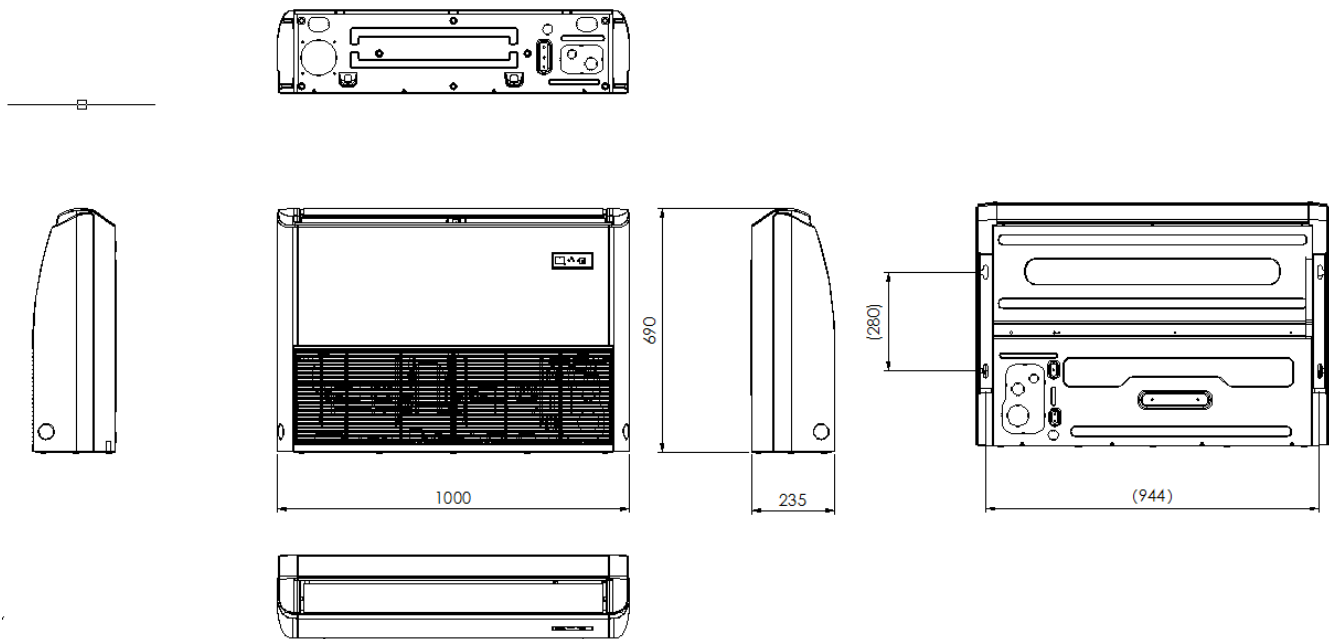


2.2 CO-D 48HNX, CO-D 60HNX

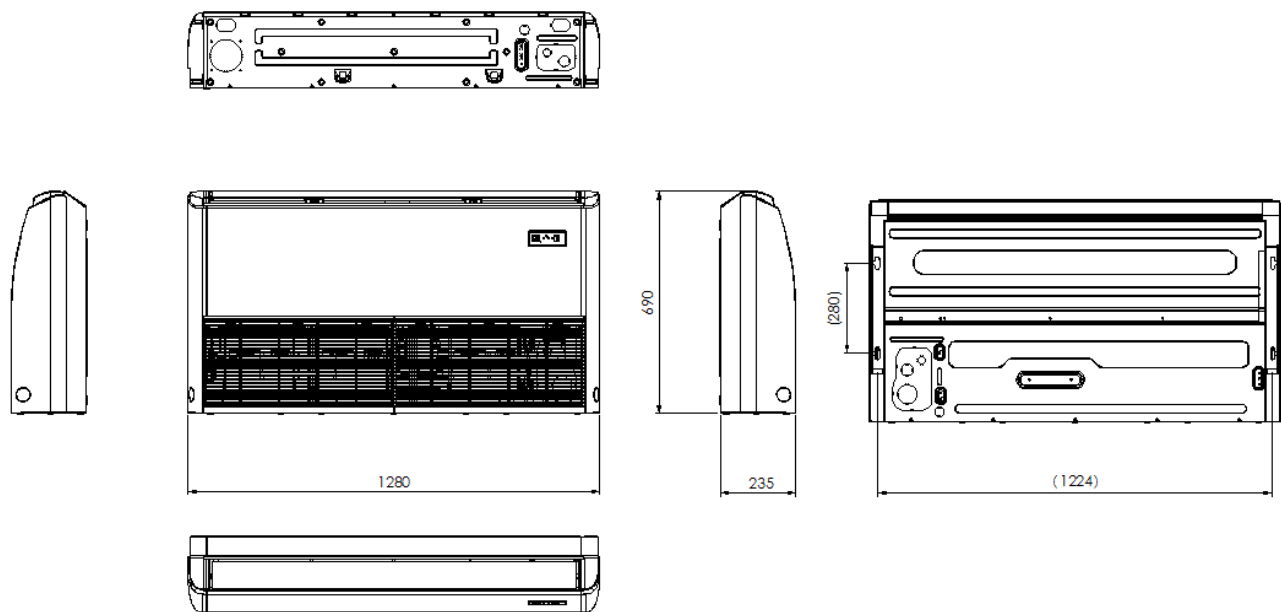


3. Ceiling Floor (F)

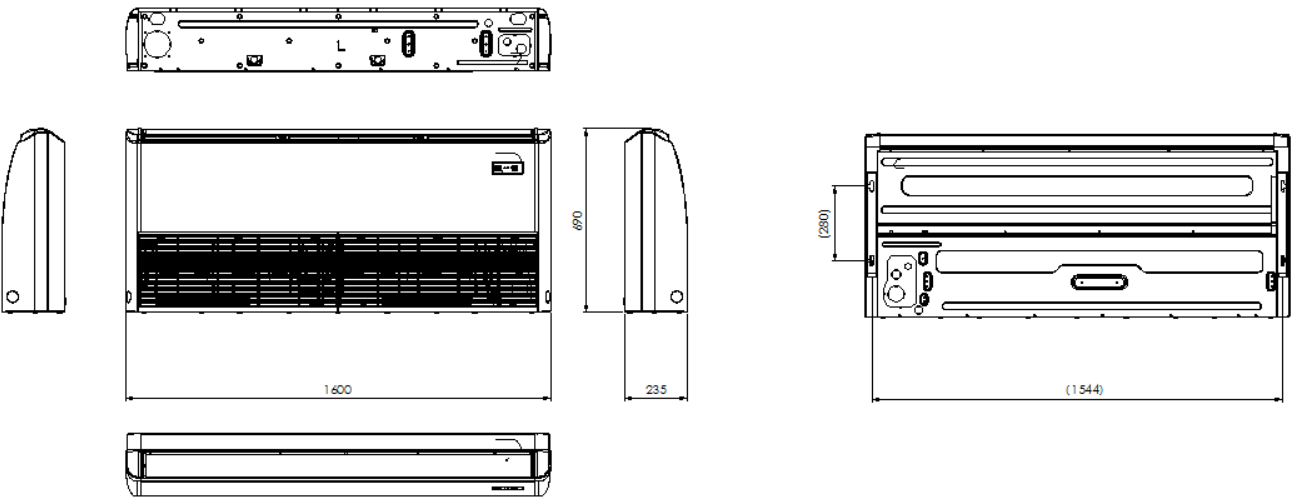
3.1 CO-F 18HNX



3.2 CO-F 24HNX, CO-F 36HNX

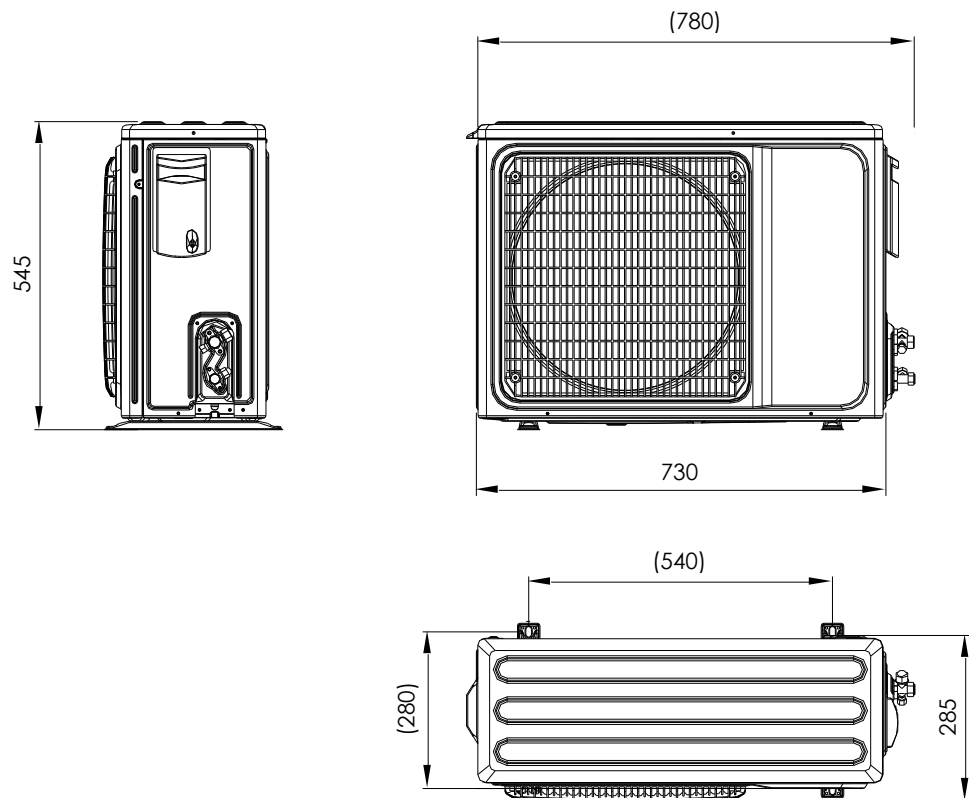


3.3 CO-F 48HNX, CO-F 60HNX

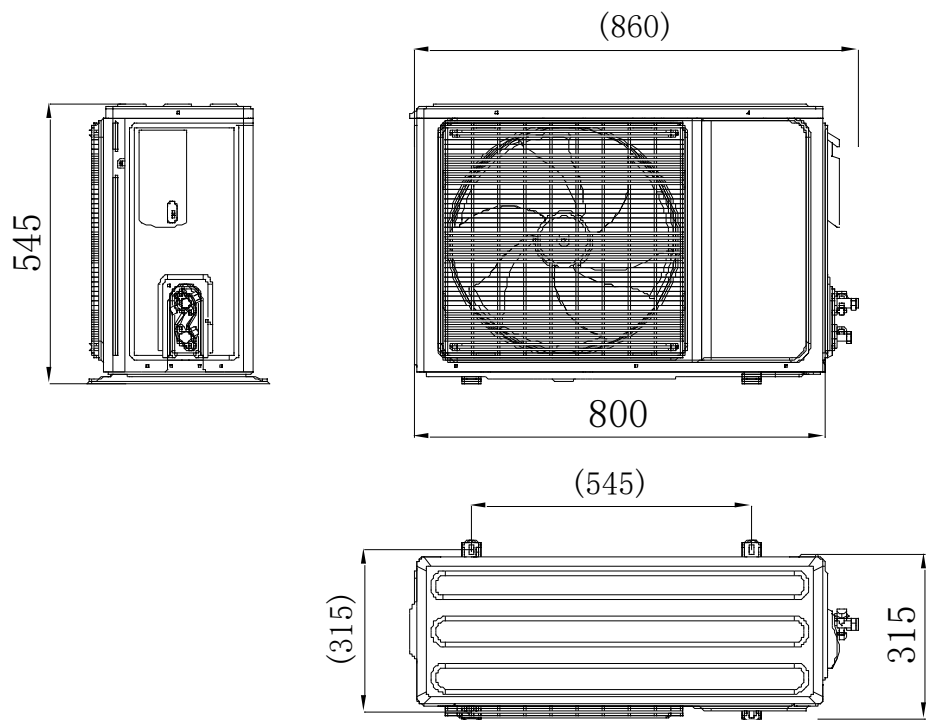


4. Outdoor Unit

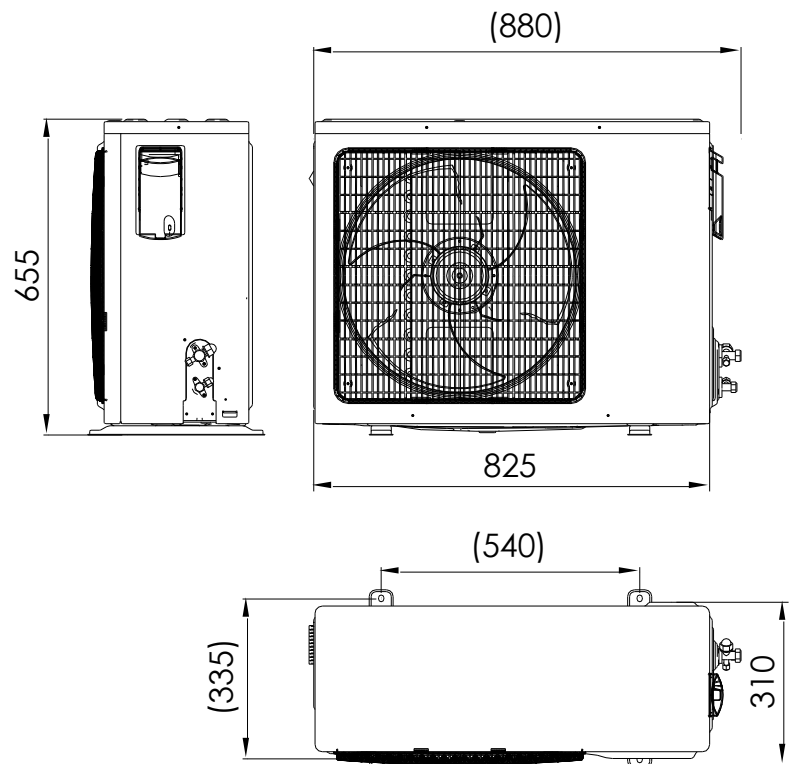
4.1 CO-E 12HNX



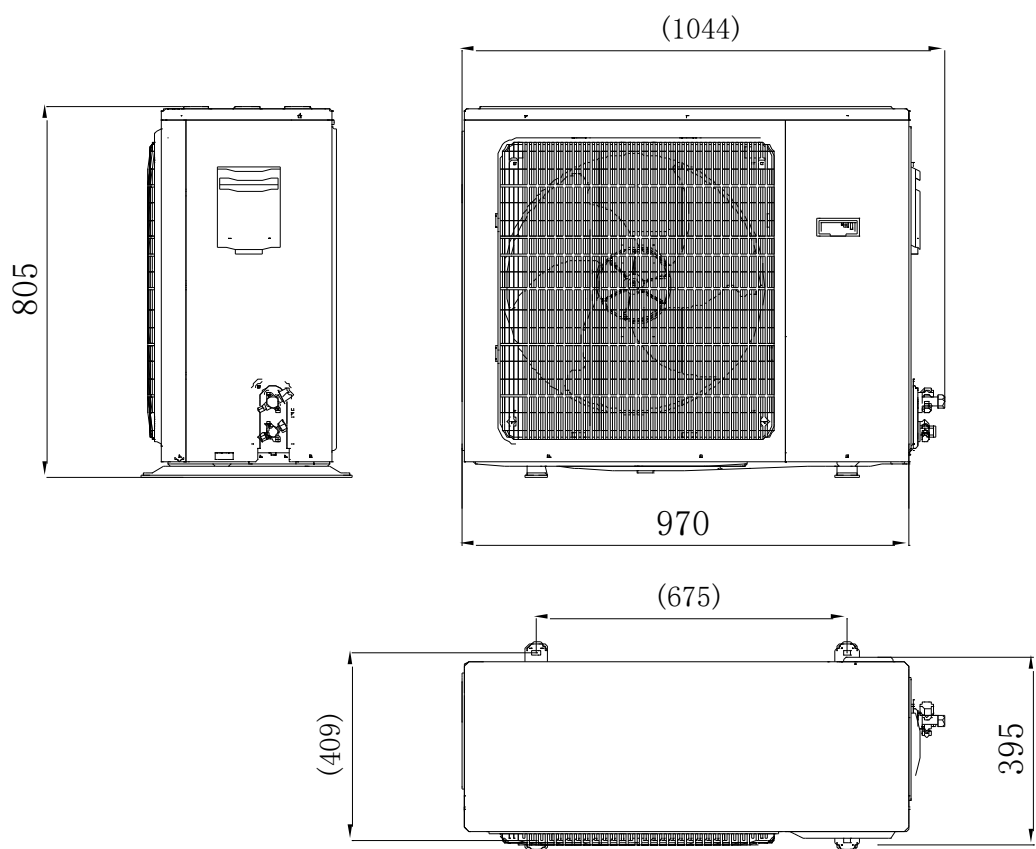
4.2 CO-E 18HNX



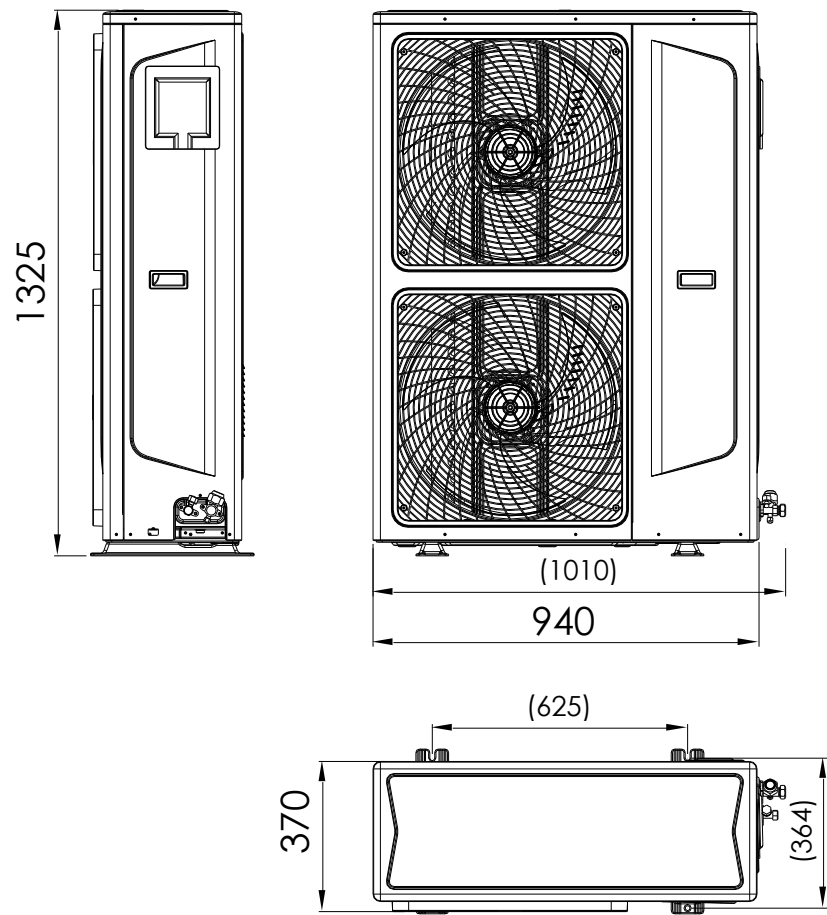
4.3 CO-E 24HNX



4.4 CO-E 36HNX



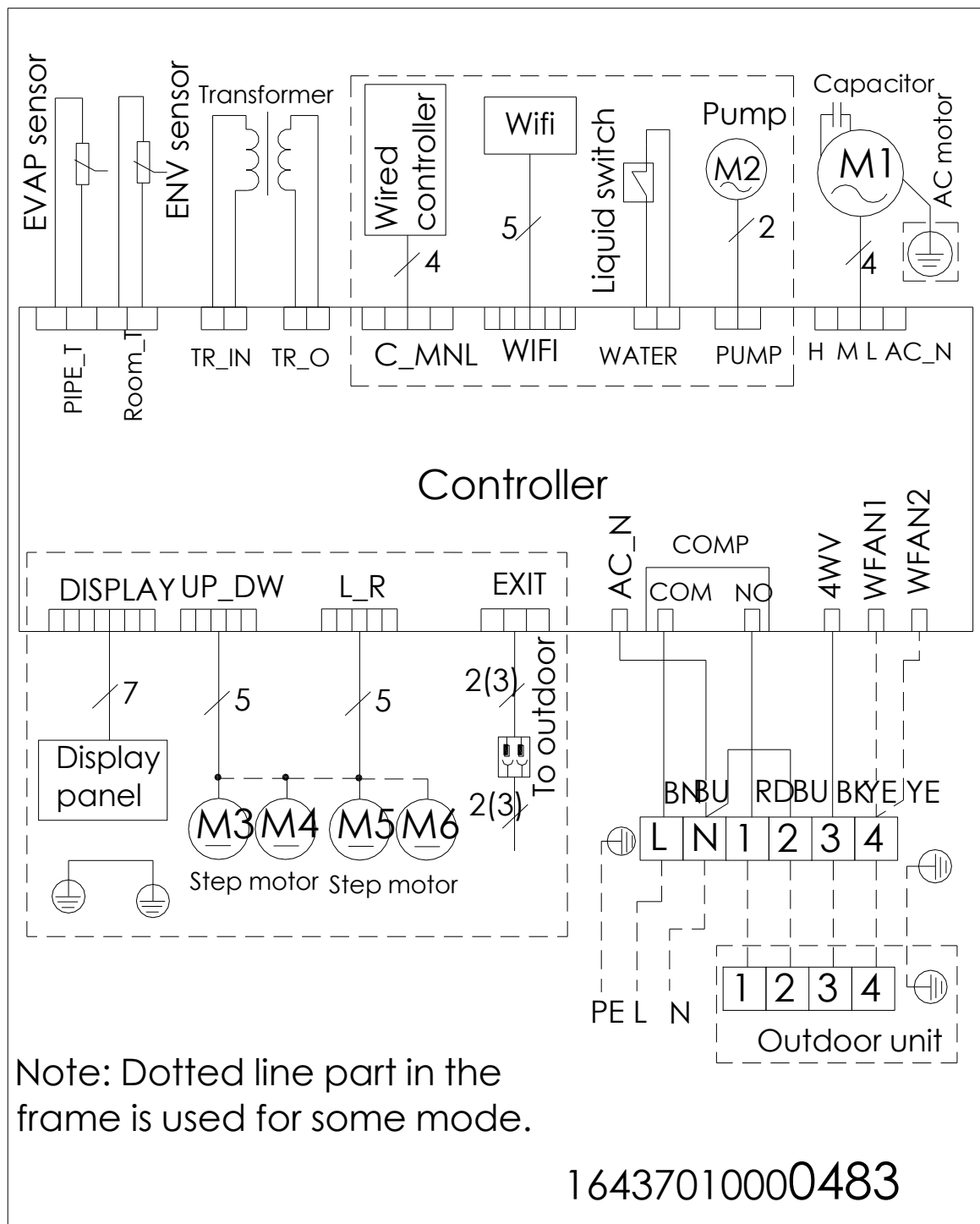
4.5 CO-E 48HNX, CO-E 60HNX



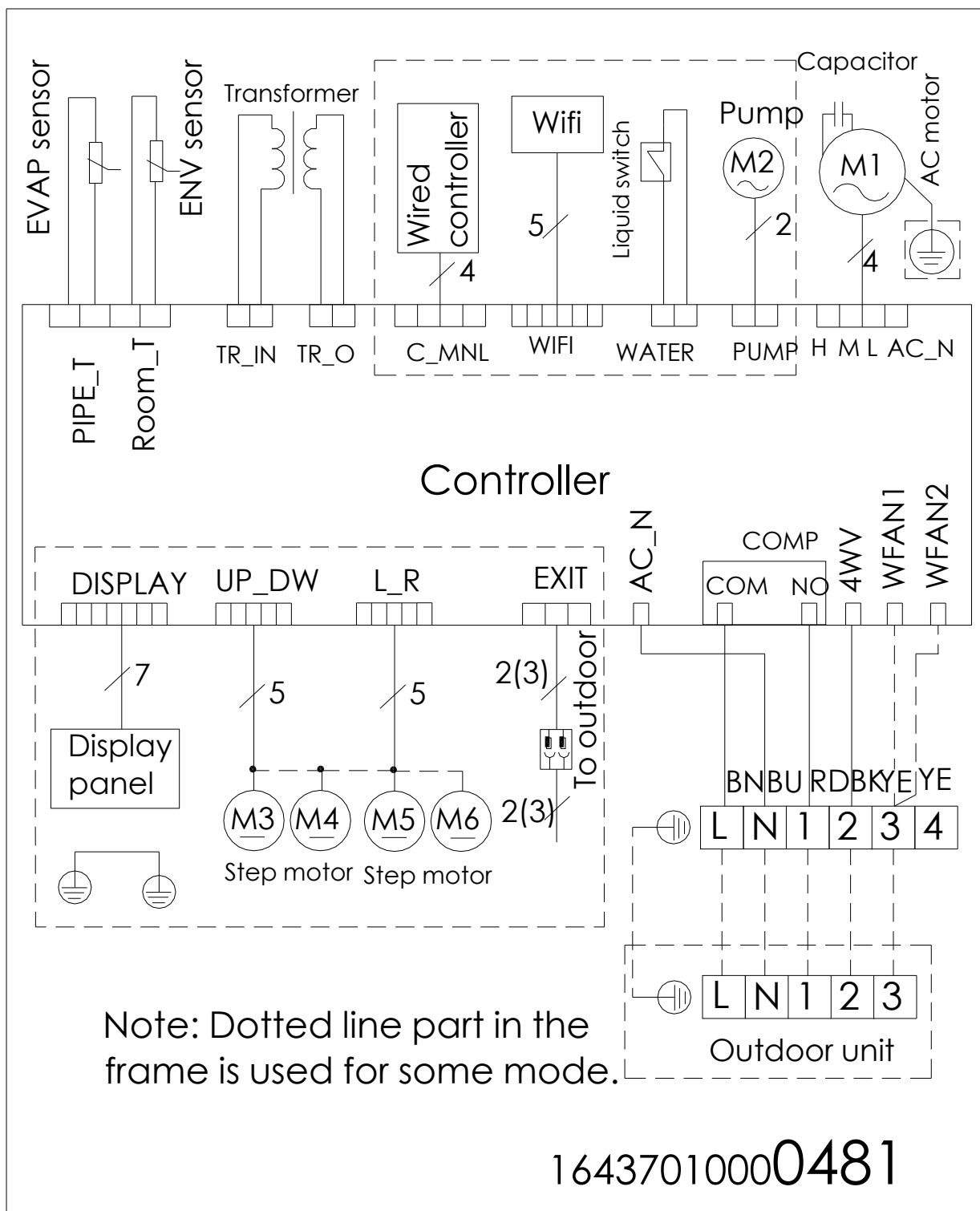
## Part5 Electrical Principle Diagram

### 1. IDU

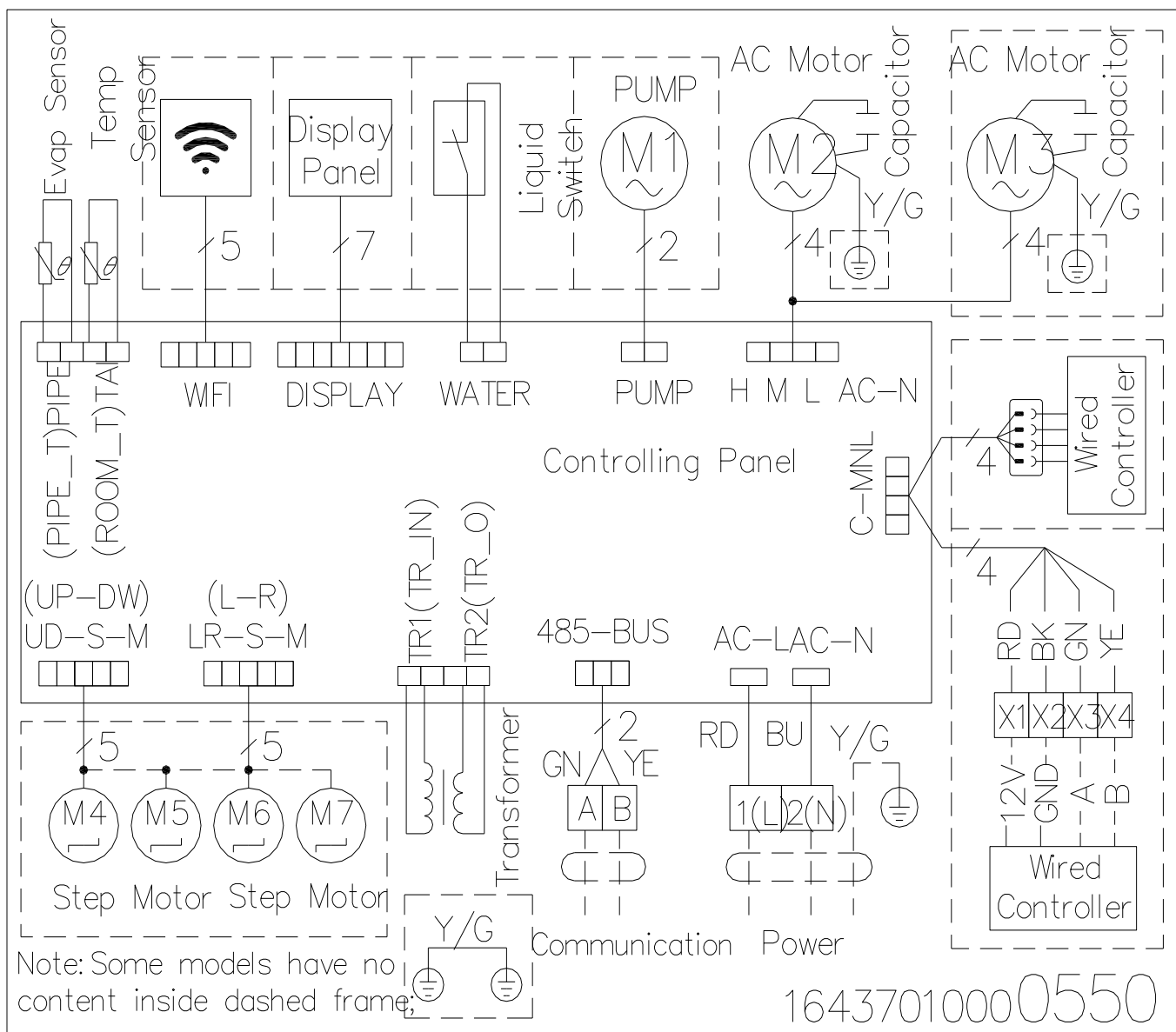
#### 1.1 Cassette(12,18K),Ceiling Floor (18K),Duct(12,18K)



## 1.2 24,36K(1Ph~)Cassette, Ceiling Floor, Duct

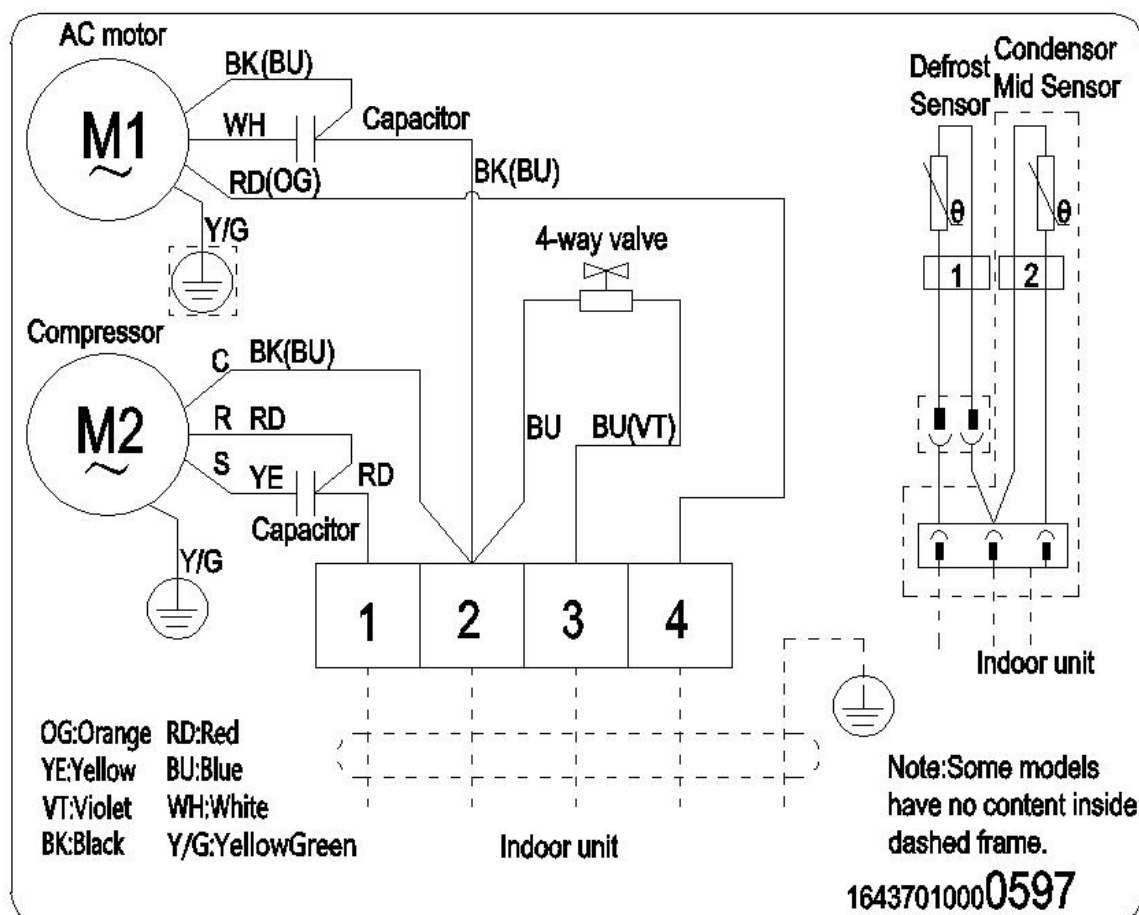


### 1.3 36K,48K,60K Cassette ,Ceiling Floor (FType) ,MID Duct, High DUCT

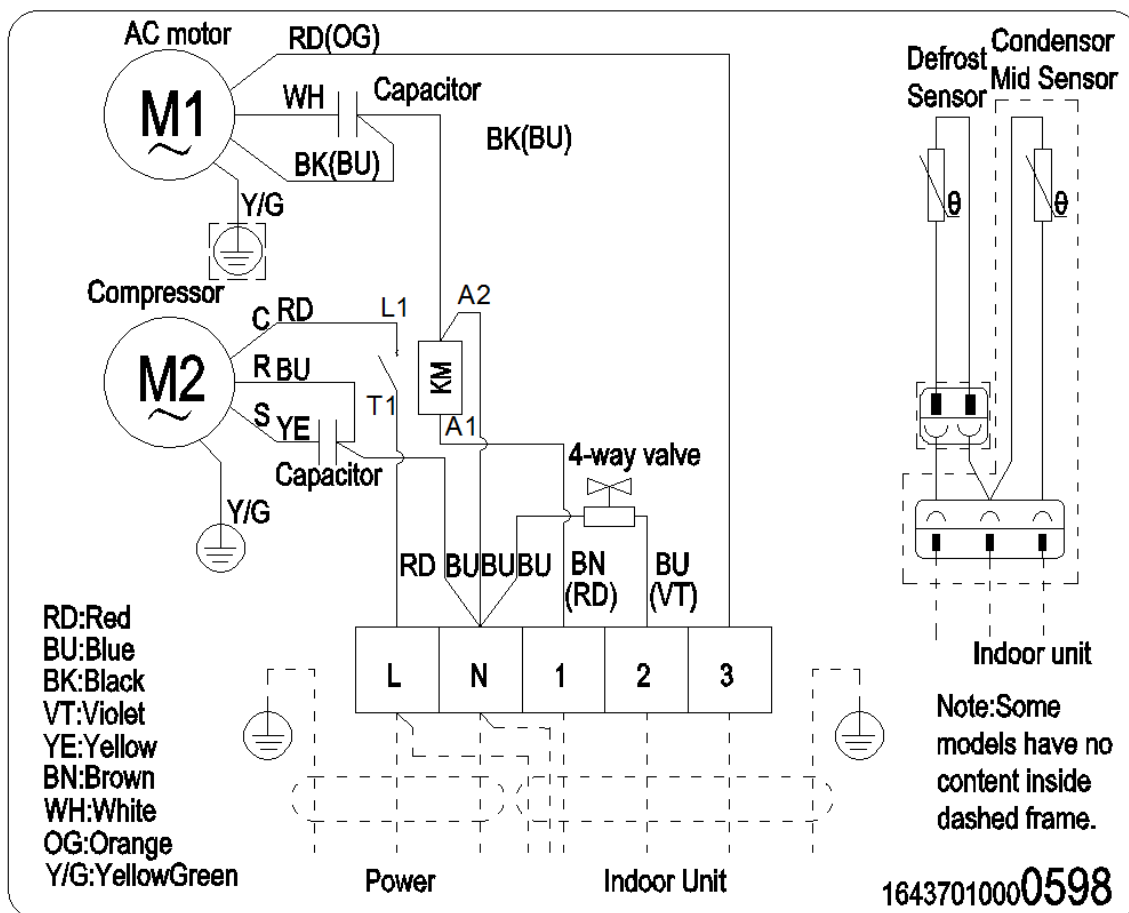


## 2. ODU

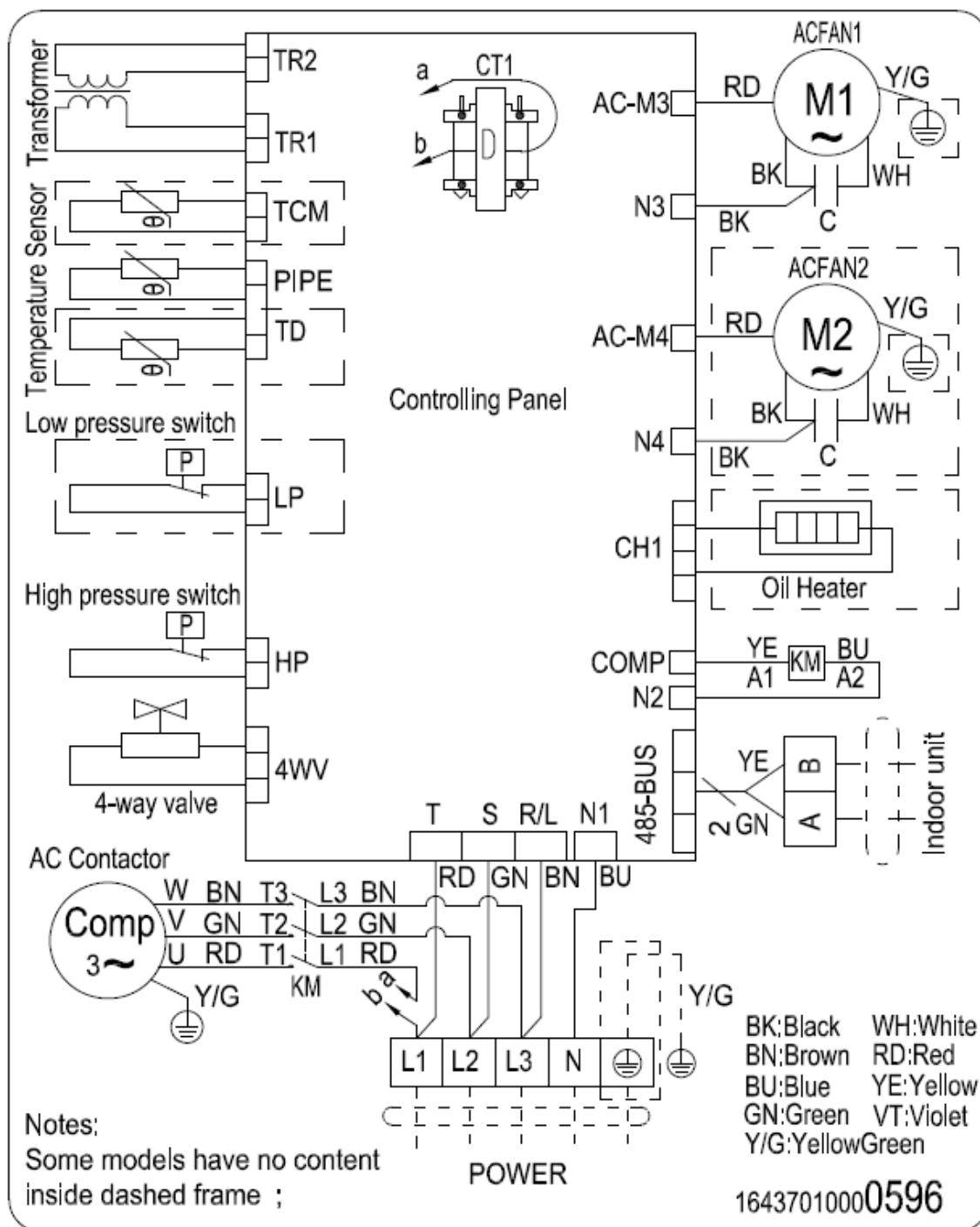
### 2.1 CO-E 12HNX, CO-E 18HNX



## 2.2 CO-E 24HNX



## 2.4 CO-E 36HNX, CO-E 48HNX, CO-E 60HNX



## Part6 Capacity Amendment

### 1. Operation range

| Cooling capacity<br>(KBtu/h) |         | 12K                | 18K | 24K | 36K | 36K                | 48K | 60K |
|------------------------------|---------|--------------------|-----|-----|-----|--------------------|-----|-----|
| Power supply                 |         | 220-240V~/50Hz/1Ph |     |     |     | 380-415V~/50Hz/3Ph |     |     |
| Ambient<br>temperature       | Cooling | -15~49℃            |     |     |     |                    |     |     |
|                              | Heating | -15~24℃            |     |     |     |                    |     |     |

### 2. Long piping length

| Cooling capacity (KBtu/h) |             | 12K   | 18K | 24K    | 36K | 36K | 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)      |             | 15    | 20  |        | 30  |     | 50     |     |
| Max.piping height(m)      |             | 10    | 15  |        | 20  |     | 30     |     |
| Max.Bend Qty              |             | 3     | 4   | 4      | 6   |     | 8      |     |

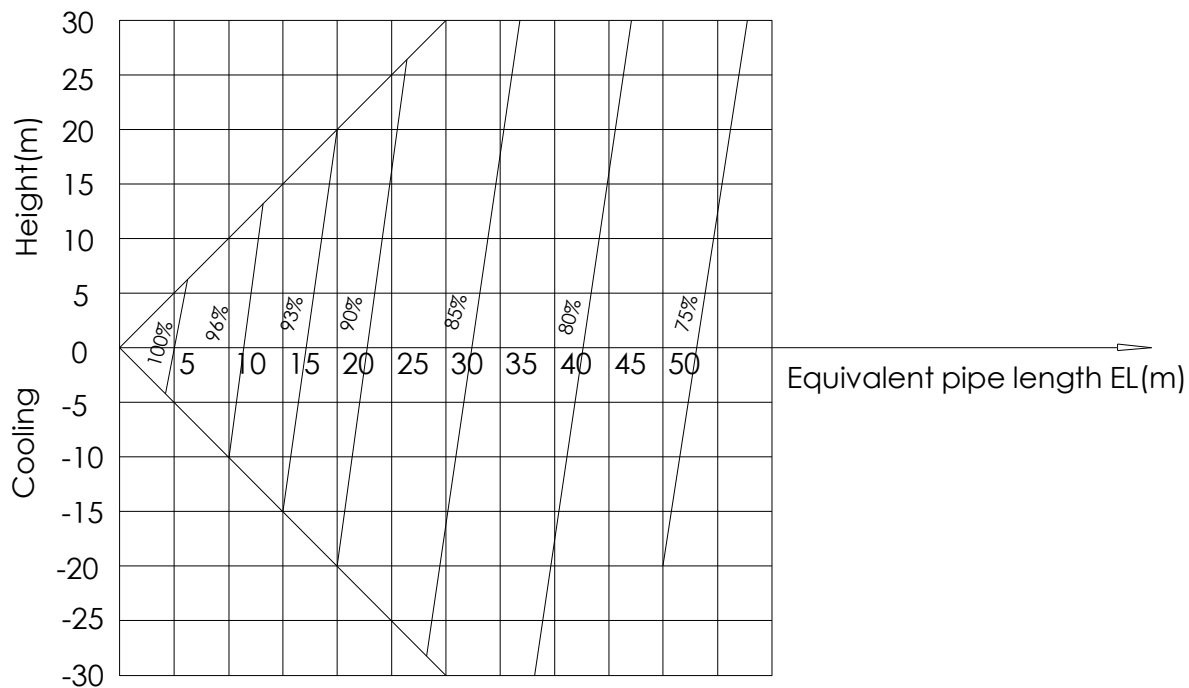
#### Caution:

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.

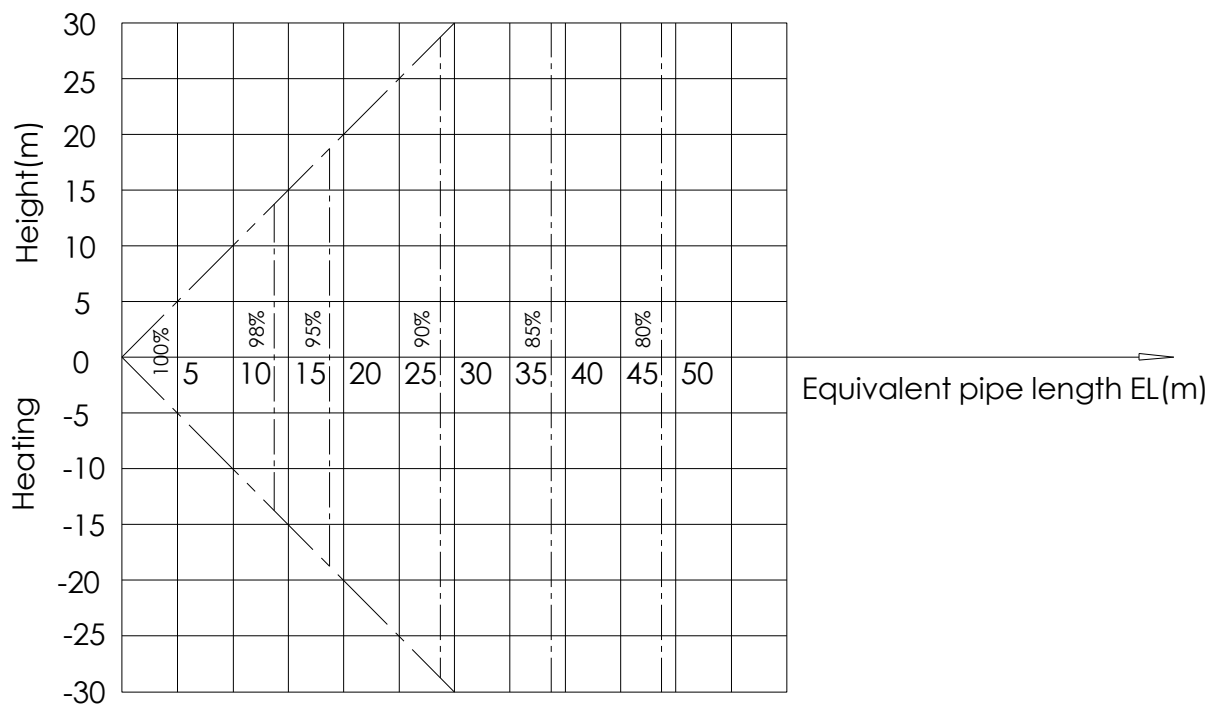
### 3. Capacity amendment of different piping length

#### 3.1 Amendment coefficients of heating and cooling capacity under different height drop K3

**Different Cooling Capacity modified coefficients at different height:**



**Different Heating Capacity modified coefficients at different height:**



**Note:**

H = Height of Outdoor Unit — Height of Indoor Unit

**3.2 Correction capability**

Cooling capacity = Rated cooling capacity xK1xK3

Heating capacity = Rated heating capacity xK2xK3

**4. 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<br>Pipe Dia.(mm) | Bend | Oil Loop |
|-----------------------|------|----------|
| 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  $L = \text{Actual Pipe length } L + \text{Bend Qty} \times \text{Equivalent pipe bend length} + \text{Oil Loop Qty} \times \text{Equivalent Oil Loop length}$

**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:

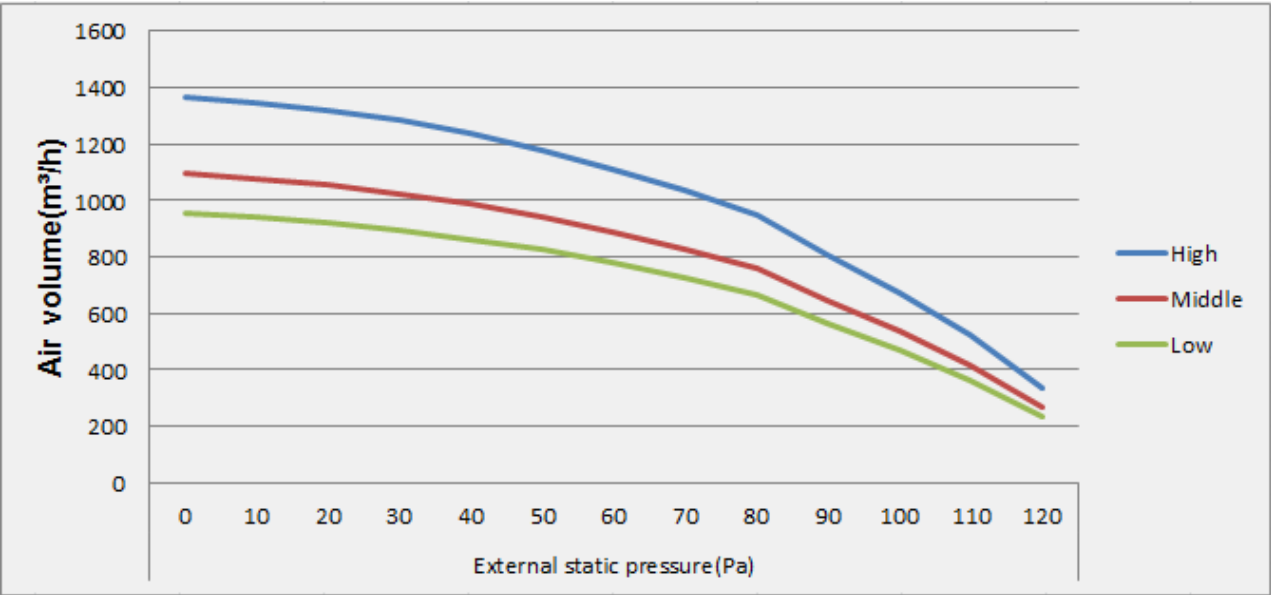
$$L = 25 + 0.25 \times 5 + 2.0 \times 2 = 30.25(\text{m})$$

**Note:**

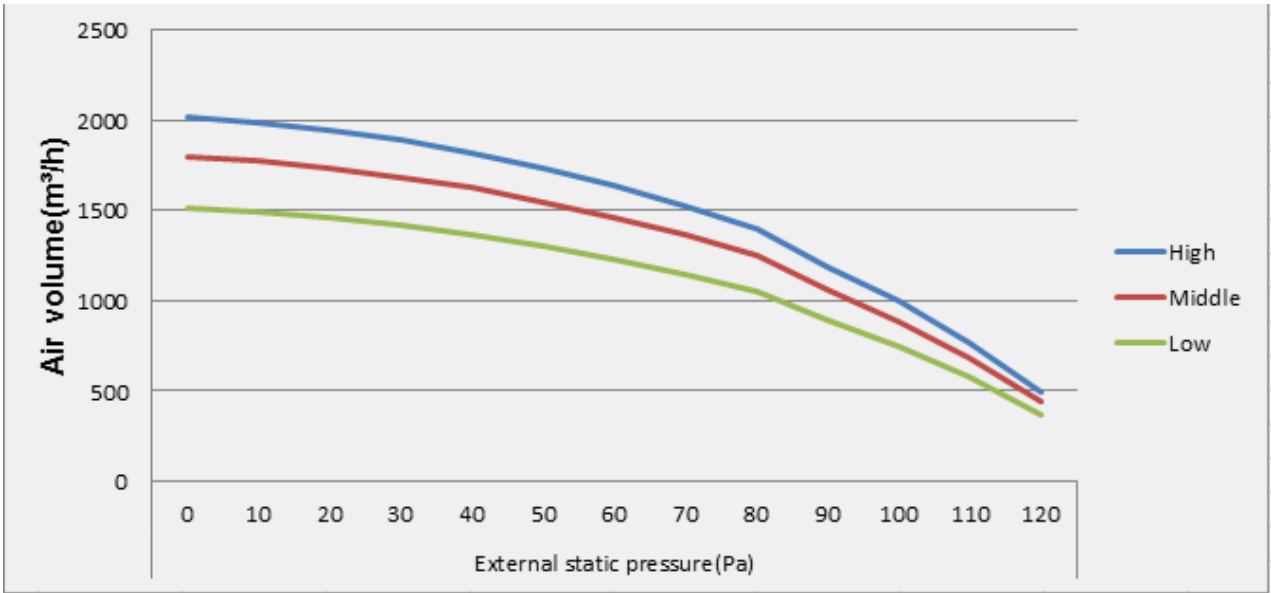
If there is relatively level difference of indoor and outdoor unit, S-shaped oil trap must be installed every 8~10m for vertical pipe.

# Part7 Static pressure curve

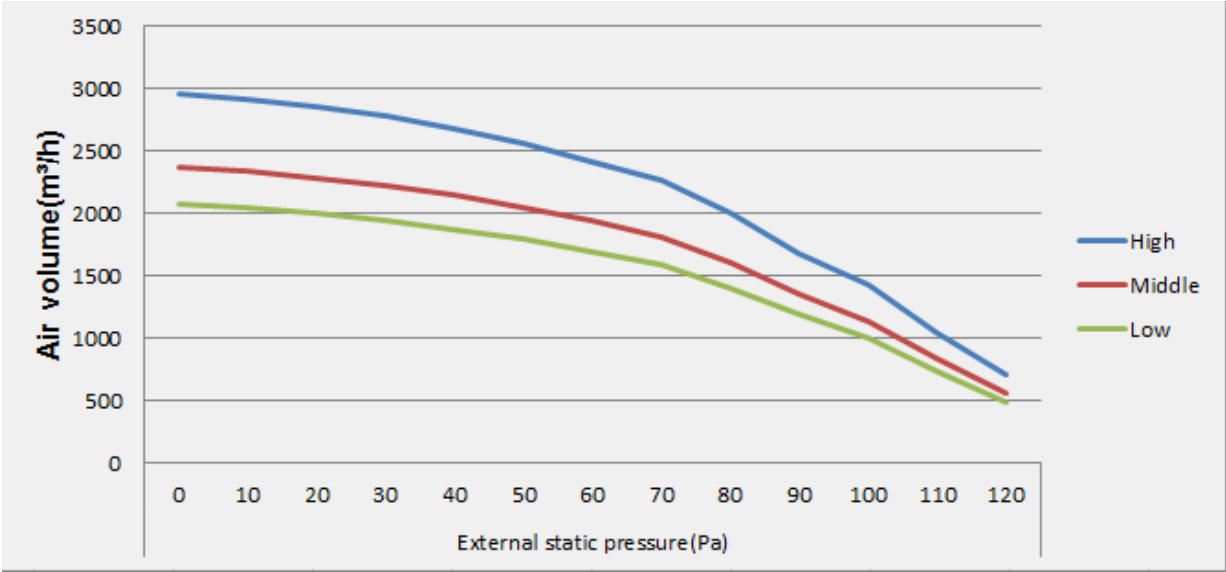
## 1. CO-D 18HNX



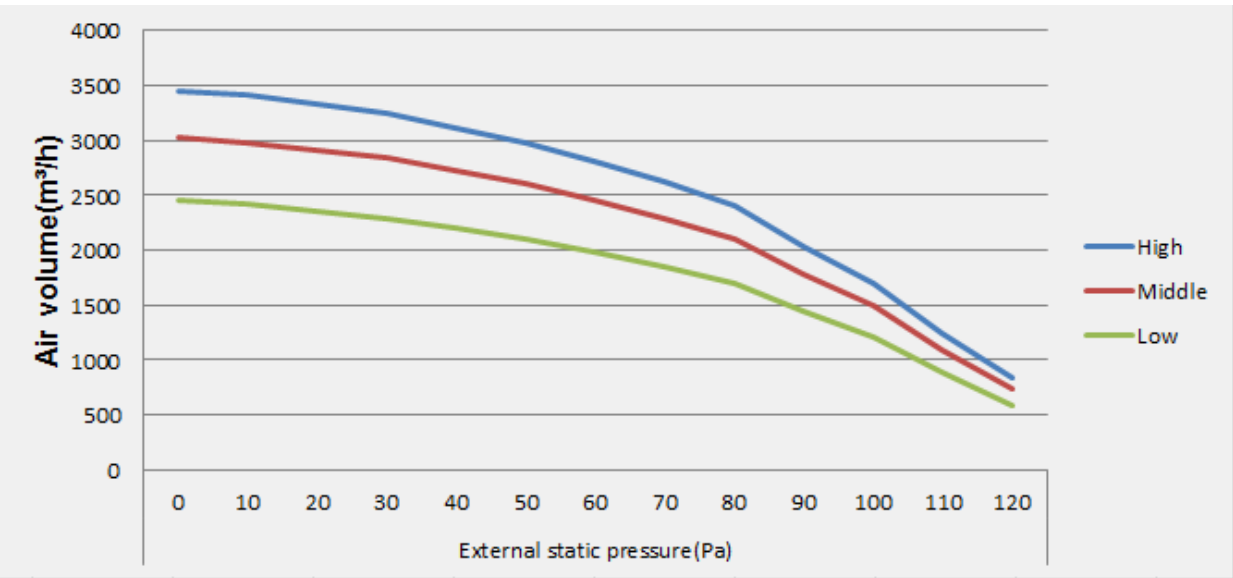
## 2. CO-D 24HNX



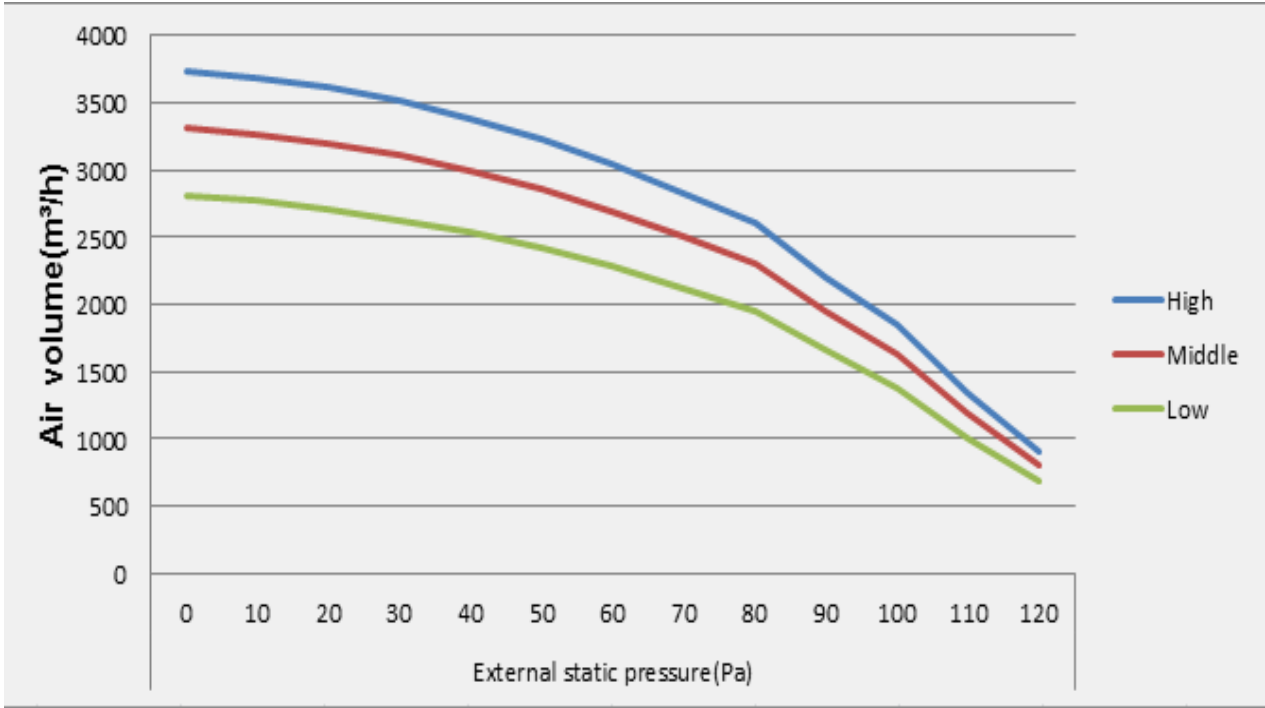
3. CO-D 36HNX



4. CO-D 48HNX



5. CO-D 60HNX



## Part8 Control

### 1. 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).

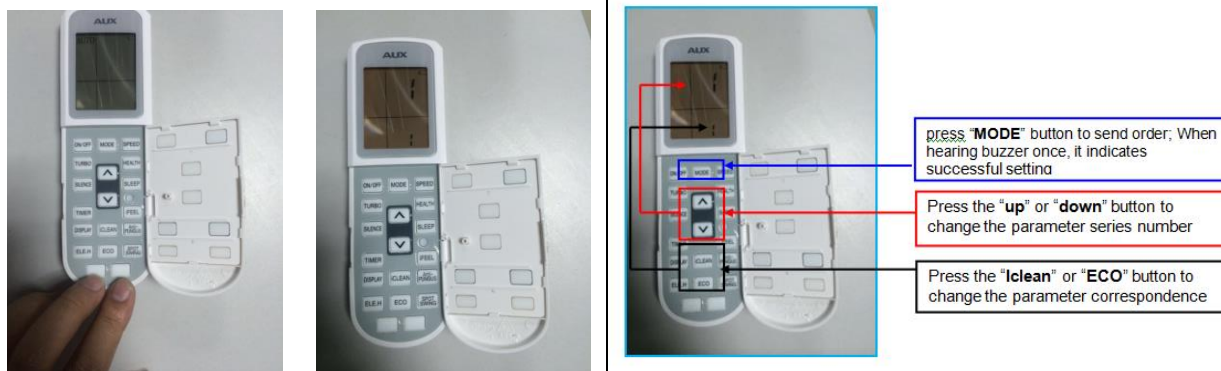
#### 1.1 Parameter Setting by YK-L

##### Enter the setting interface

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

##### Parameter Setting

- ③ Press the [ $\wedge$ ] or [ $\vee$ ] 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 (Send signal to display panels or receivers), Then can hear buzzer once



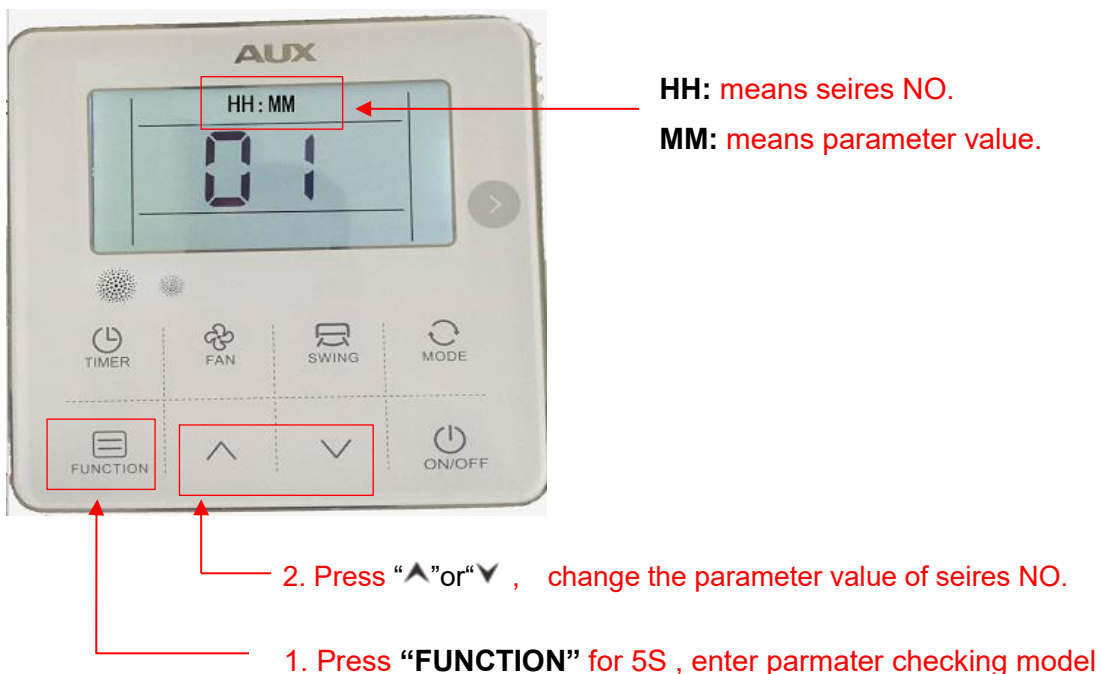
## **1.2 Parameter Setting by XK-04/ XK-05**

### **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” buton ,you can check the parameter value of seires NO. **【04】 【05】 【1】** .



### **Parameter setting**

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

The corresponding parameter valve”**MM**” begain to flash,changing it throuth pressing the “^” or “v” buton,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 parmater checking model

## 2. Room Card Function

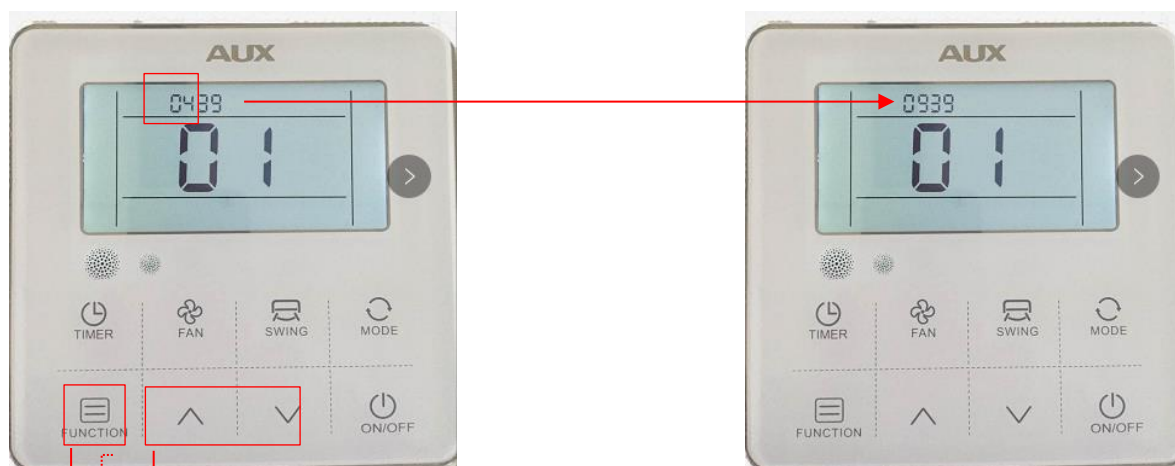
### 2.1 Function setting

| 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, <b>can't be controlled by controller</b> |

※ How to set the room card function ( Set method same as the above 【Part 9 →2.1 Parameter Setting by YK-L or 2.3 Parameter Setting by XK-04/XK-05 】

For example ( XK-05)

#### Step 1

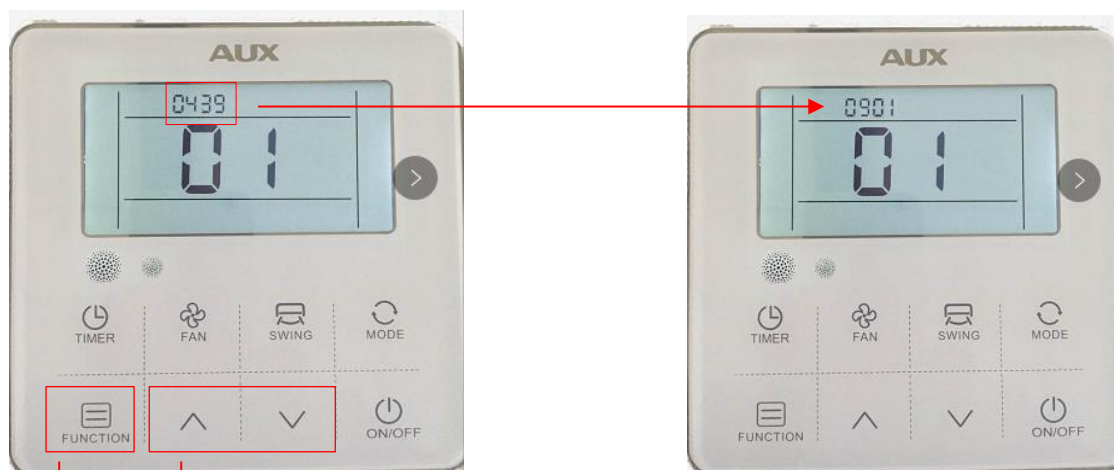


③ Press “FUNCTION” for 5S, enter parmater setting model;

② Press the“^”or“v”button to get “09 39”

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

### Step 2

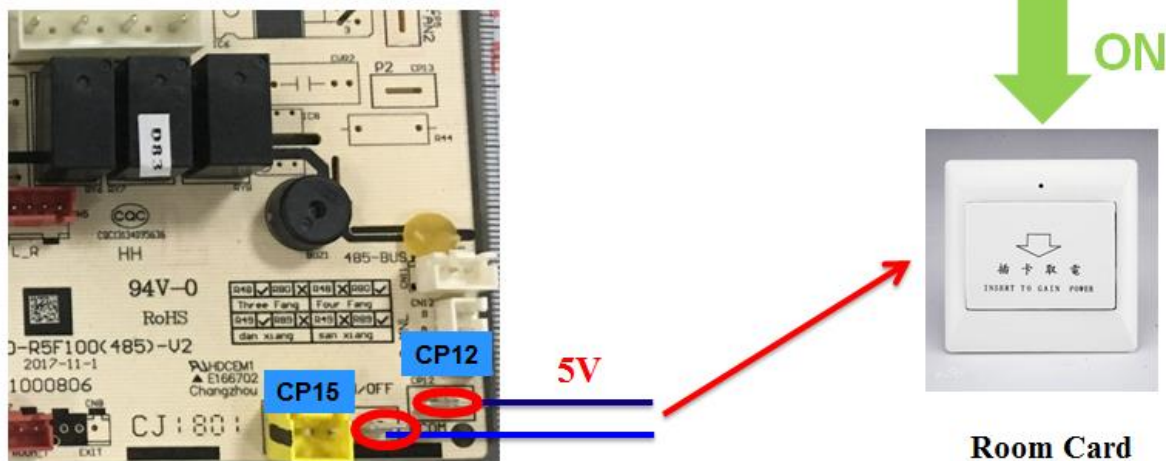


④ Press the “^” or “v” button to get “09 01”

⑤ after finishing setting , press “FUNCTION” to confirm

### 2.2 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 .



### 3. Wifi Module

#### 3.1 WiFi Module Configuration

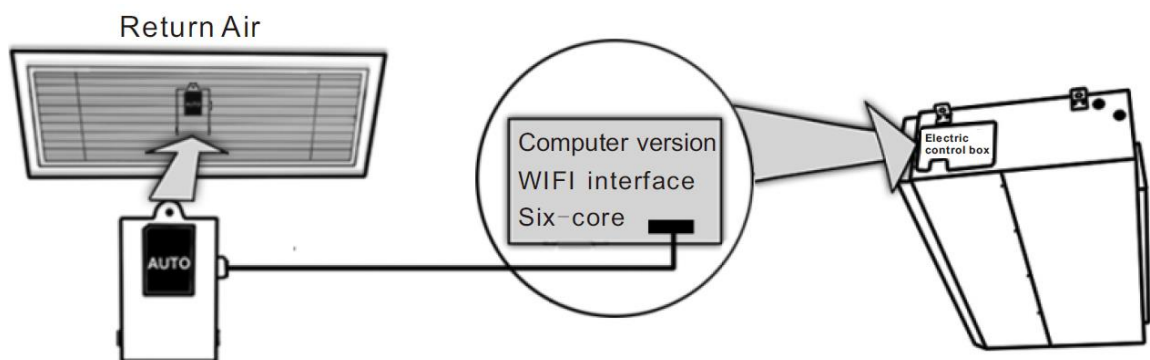
##### ① APP Download

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

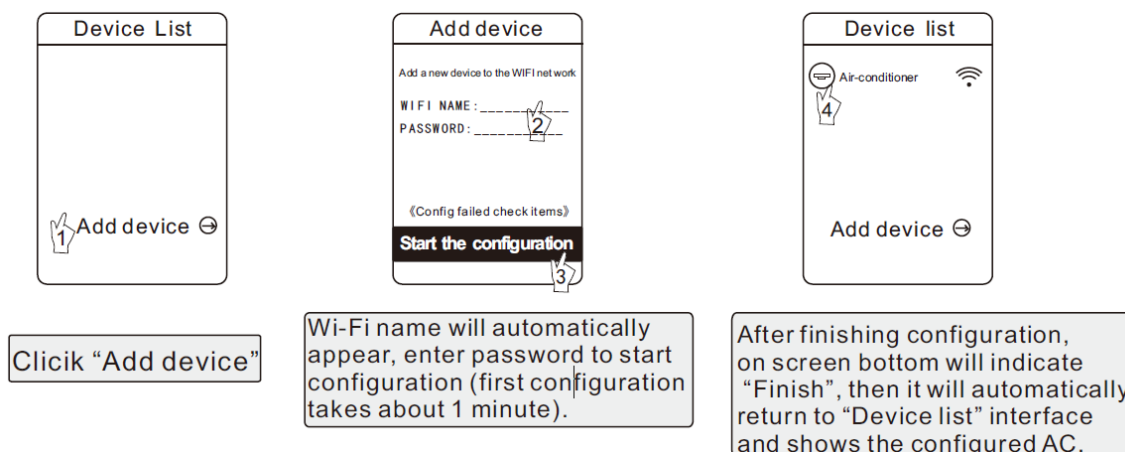
Connect the WIFI module communication wire to WIFI interfaces of main PCB, as shown below:



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

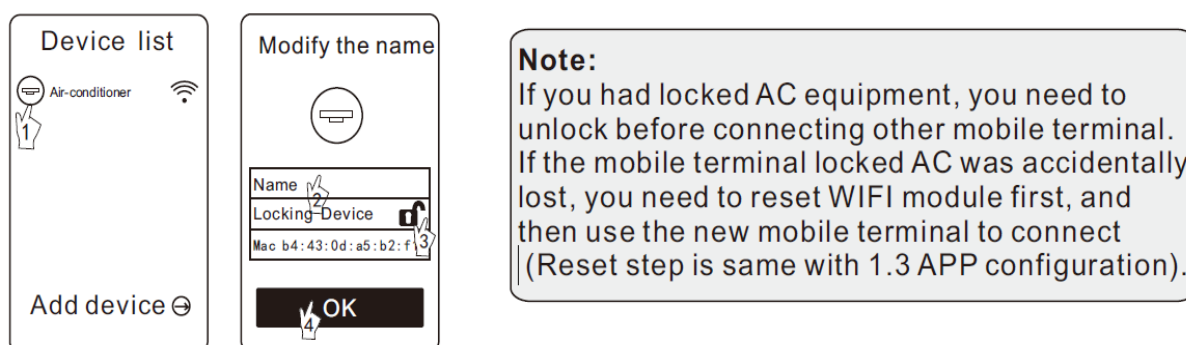
- Press "healthy" button 8 times consecutive, and buzzer even ring two sound then into the configuration
- Connect mobile terminals to WIFI, open APP “AC Freedom”, and then operate following the steps below:



**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.

### 3.2 AC management

#### ① Modify AC name and locking function



#### 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

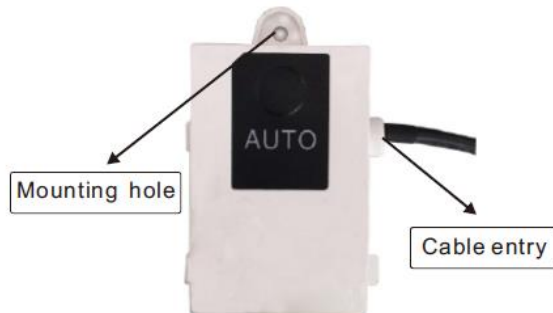
### 3.3 TroubleShooting

#### 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.

### 3.4 Technical Parameters

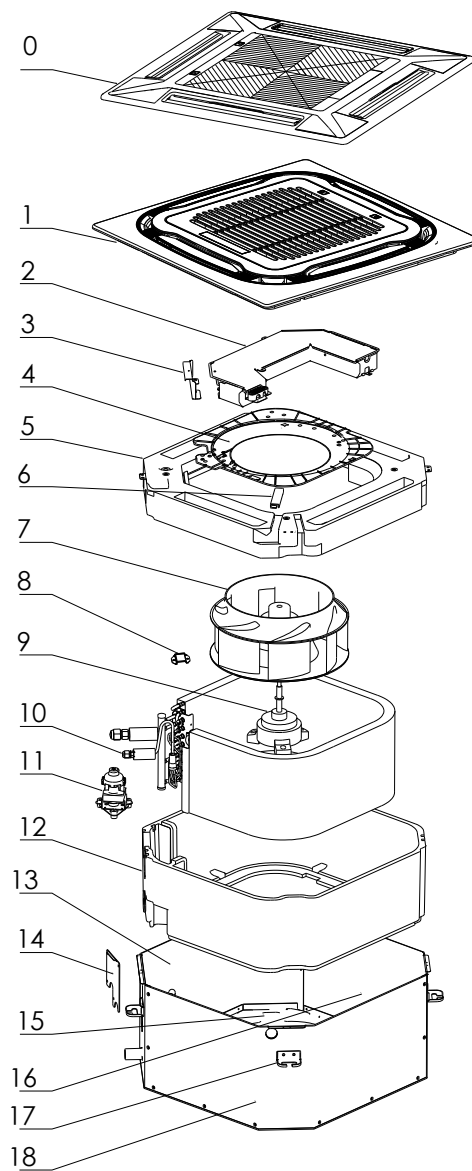
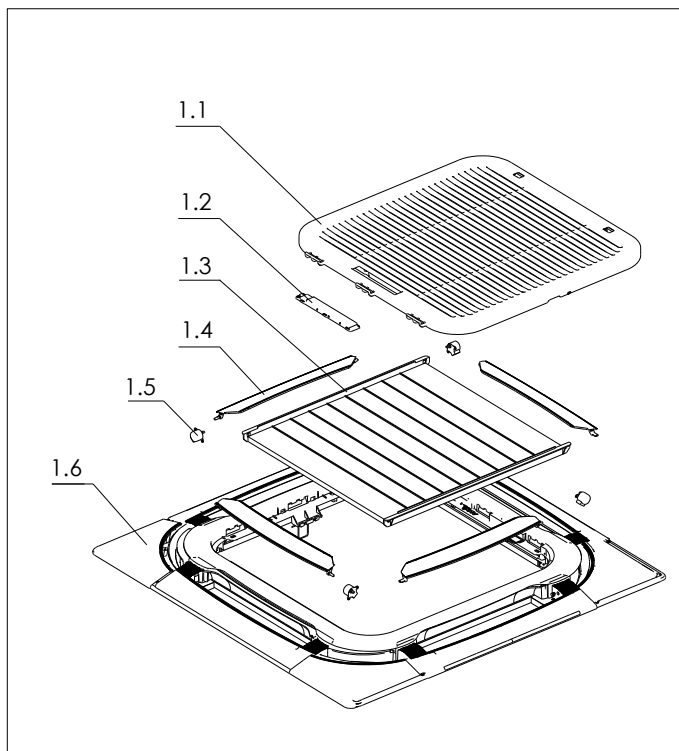
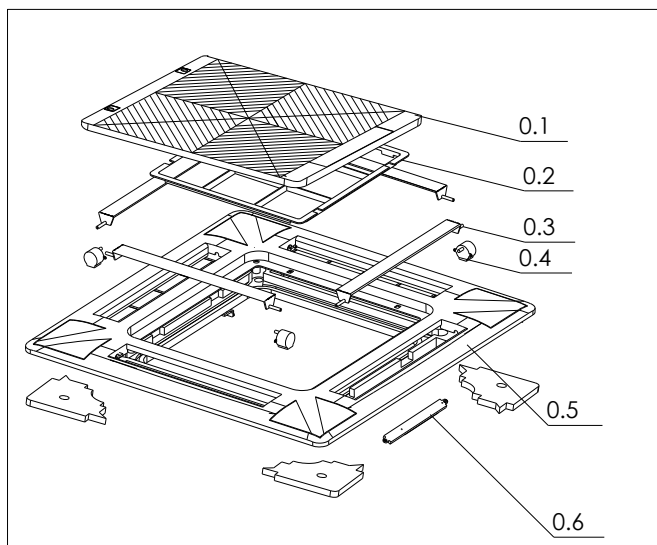
- Working temperature : 0~50℃ ;
- Working environment humidity : 20~90%RH ;
- Dimensions : 78 X 52 X 15.5
- Configuration cable wire length : 1500mm



## Part9 Explosive View

### 1. Cassette

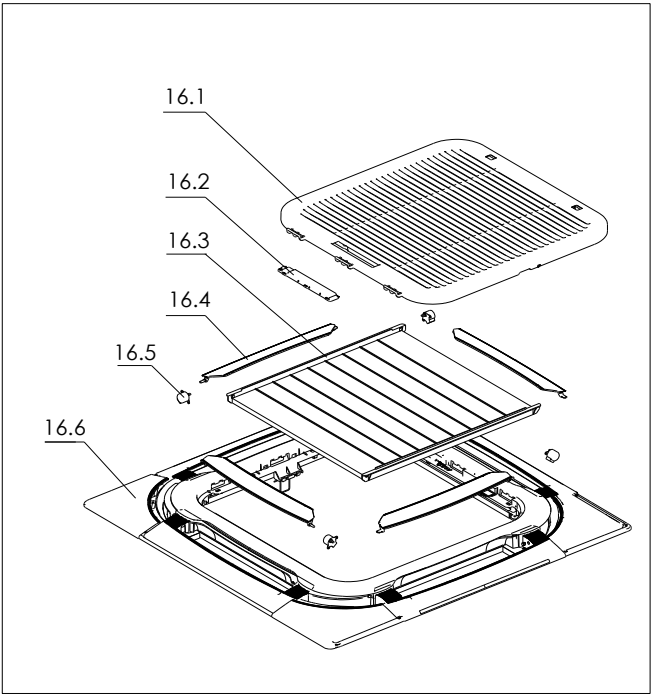
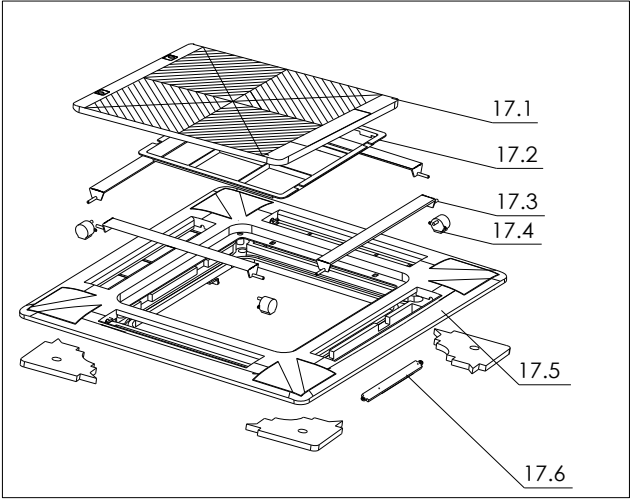
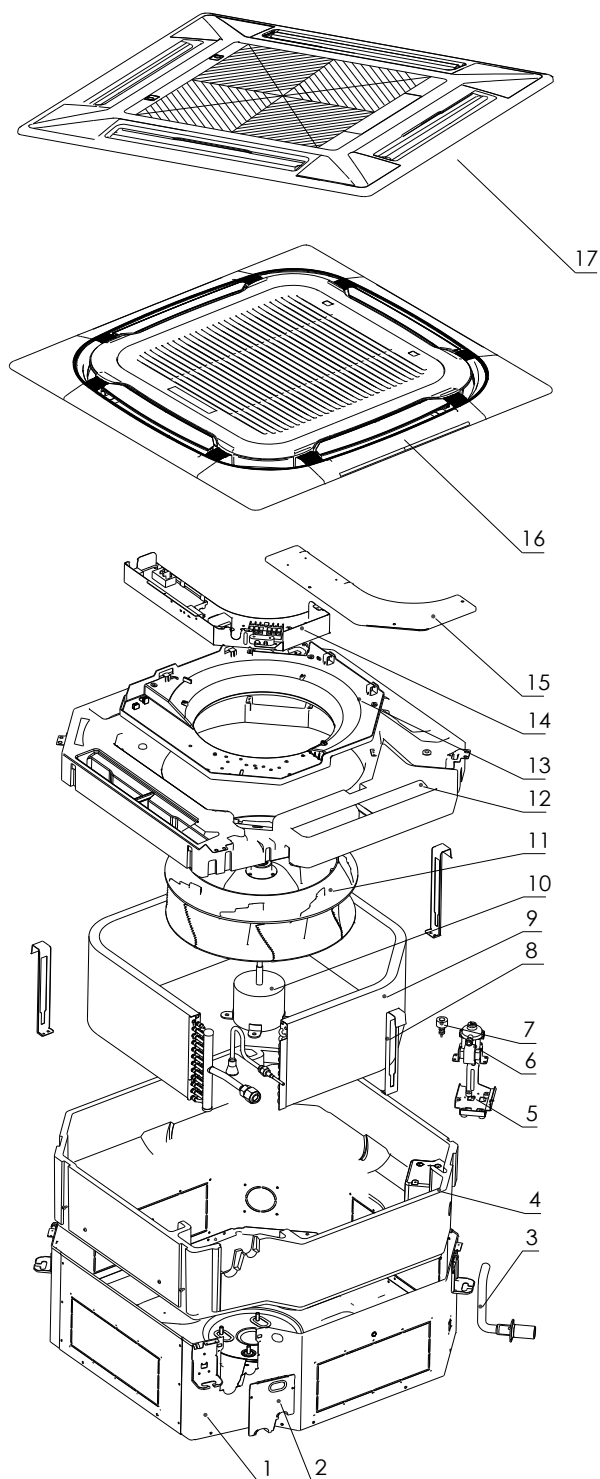
#### 1.1 CO-4C 12HNX, CO-4C 18HNX



## R410A T1 ON/OFF LCAC B7 Series

| 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   | 电机(三速) XD30B | Fan motor XD30B       | <b>16430001000638</b> | 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           | <b>16421014000089</b> | 1   |
| 15  | 底盘组件         | Chassis assembly      | <b>16321001000071</b> | 1   |
| 16  | 围板 C         | Baffle C              | 16421010000073        | 1   |
| 17  | 挂耳           | Hook                  | 16421040000042        | 4   |
| 18  | 围板 A         | Baffle A              | 16421010000071        | 1   |

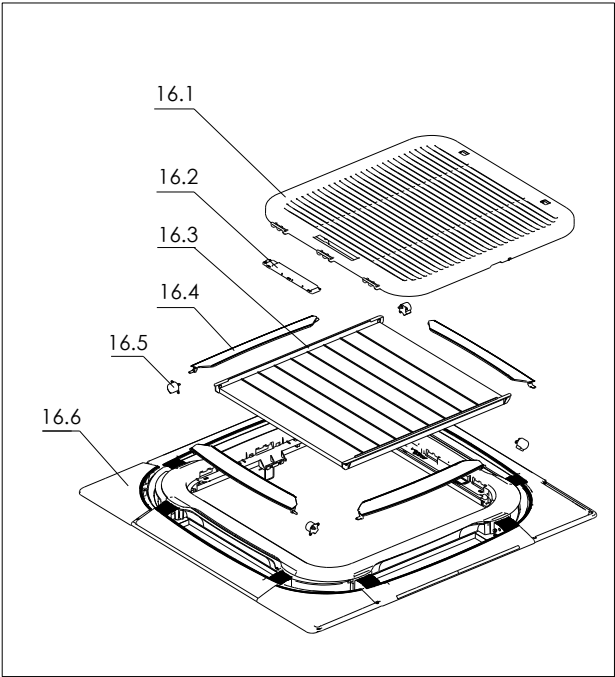
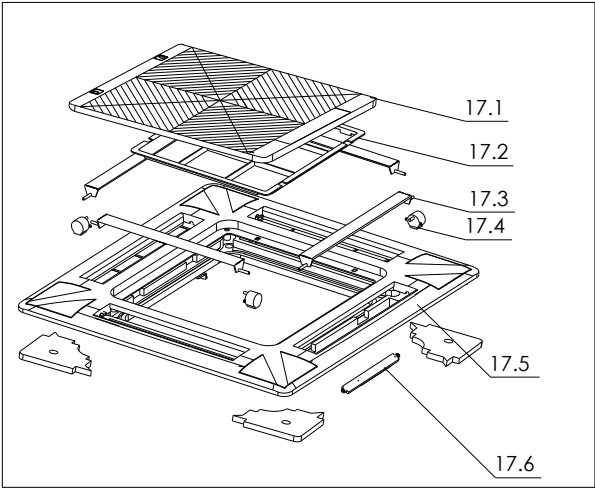
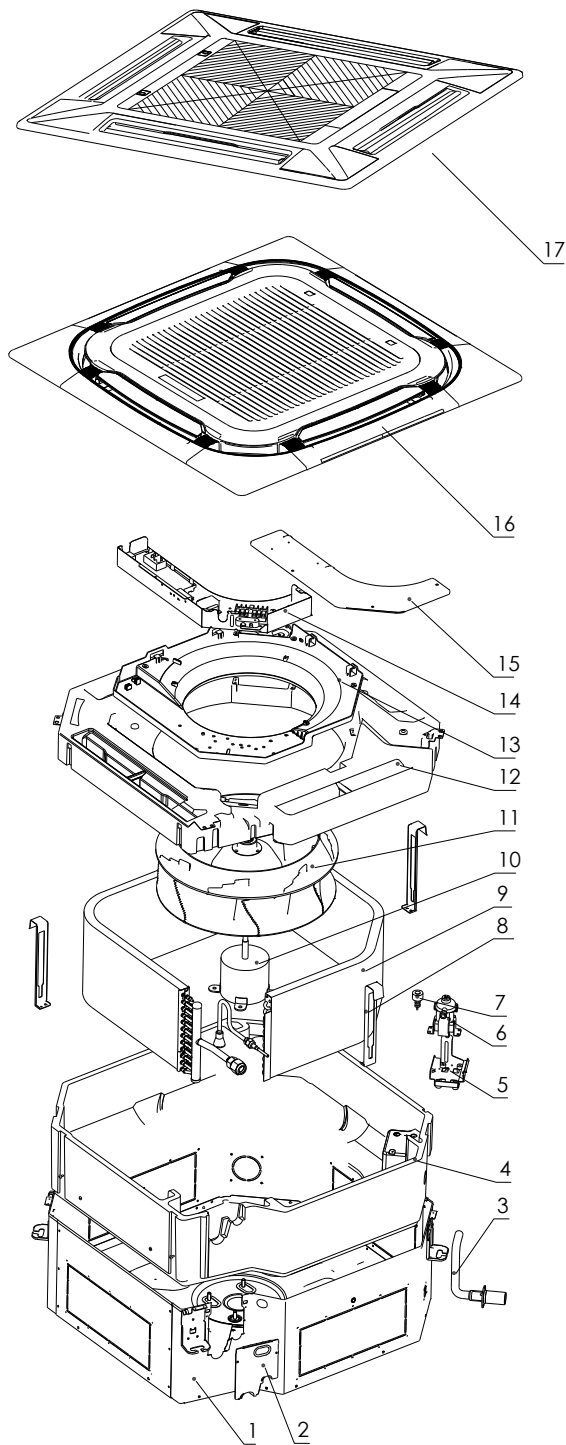
1.2 CO-4C 24HXX, CO-4C 36HXX



## R410A T1 ON/OFF LCAC B7 Series

| NO.  | Code           | Chinese                                                      | EN                    | Quantity |
|------|----------------|--------------------------------------------------------------|-----------------------|----------|
| 1    | 16421010000034 | QRD-72N/D 围板 A                                               | BaffleA               | 1        |
|      | 16421010000035 | QRD-72N/D 围板 B                                               | Baffle B              | 1        |
|      | 16421010000036 | QRD-72N/D 围板 C                                               | Baffle C              | 1        |
| 2    | 16420014000031 | (ROHS)QRD-120N/E 阀板(改进)                                      | Valve plate           | 1        |
| 3    | 16432019000023 | 塑料排水软管 $\phi 25$ (内径) $\times \phi 32$ (内径) $\times$ 350(外贸) | Drain pipe assembly   | 1        |
| 4    | 16320005000045 | (ROHS)QRD-72N/EC 底盘泡沫组件(台阶)                                  | Chassis foam assembly | 1        |
| 5    | 16421026000254 | QRD-120N/D 水泵支架                                              | Drain pump holder     | 1        |
| 6    | 16440001000016 | (ROHS)排水泵 PLD-1200(新天花)                                      | Drain pump            | 1        |
| 7    | 16445034000010 | (ROHS)浮子开关 GMF-31(带锁线扣)                                      | Float switch          | 1        |
| 8    | 16421040000047 | QR-72N/E 蒸发器挂钩(喷涂)                                           | Evaporator hook       | 2        |
| 9    | 16324005000060 | ALCa-H36A4/R1DCE-B6 蒸发器总成(片距 1.4)                            | Evaporator assembly   | 1        |
|      | 16430001000529 | 电机(三速) YDK45-6Q(长轴)                                          | DC motor              | 1        |
| 11   | 16444001000027 | 风轮 $\phi 470 \times 147$ (ABS 新料)(白色)(3PC7 款)                | Wind wheel            | 1        |
| 12   | 16320005000047 | (ROHS)QRD-120N/EB 接水盘泡沫组件(台阶)                                | Drain pan assembly    | 1        |
| 13   | 16420004000007 | (ROHS)QRD-120N/ES 导风圈                                        | Air guide ring        | 1        |
| 14   | 16421038000323 | QRD-120N/EAS 电控盒组件(加隔板)                                      | Electric box assembly | 1        |
| 15   | 16421038000326 | QRD-120N/EAS 电控盒盖(铆接)                                        | Electric box cover    | 1        |
| 16   | 16108022000026 | 面板 08A                                                       | Panel MB08A           | 1        |
| 16.1 | 16420010000032 | 回风格栅                                                         | Return air grille     | 1        |
| 16.2 | 11222014000718 | R 显示灯板组件                                                     | The led panel         | 1        |
| 16.3 | 16420012000001 | 过滤网                                                          | fliter screen         | 1        |
| 16.4 | 16420007000034 | 导风叶片                                                         | Guide the wind vane   | 4        |
| 16.5 | 16430001000133 | 步进电机                                                         | Step motor            | 4        |
| 16.6 | 16420013000070 | 围框                                                           | Panel box around      | 1        |
| 17   | 16108002000007 | 面板 12                                                        | Panel MB12            | 1        |
| 17.1 | 16420010000004 | 回风格栅                                                         | Return air grille     | 1        |
| 17.2 | 16420012000001 | 过滤网                                                          | fliter screen         | 1        |
| 17.3 | 16420007000009 | 导风叶片                                                         | Guide the wind vane   | 4        |
| 17.4 | 16430001000133 | 步进电机                                                         | Step motor            | 4        |
| 17.5 | 16420014000010 | 围框                                                           | Panel box around      | 1        |
| 17.6 | 11222014000704 | 显示灯板组件                                                       | The led panel         | 1        |

1.3 CO-4C 48HXX, CO-4C 60HXX

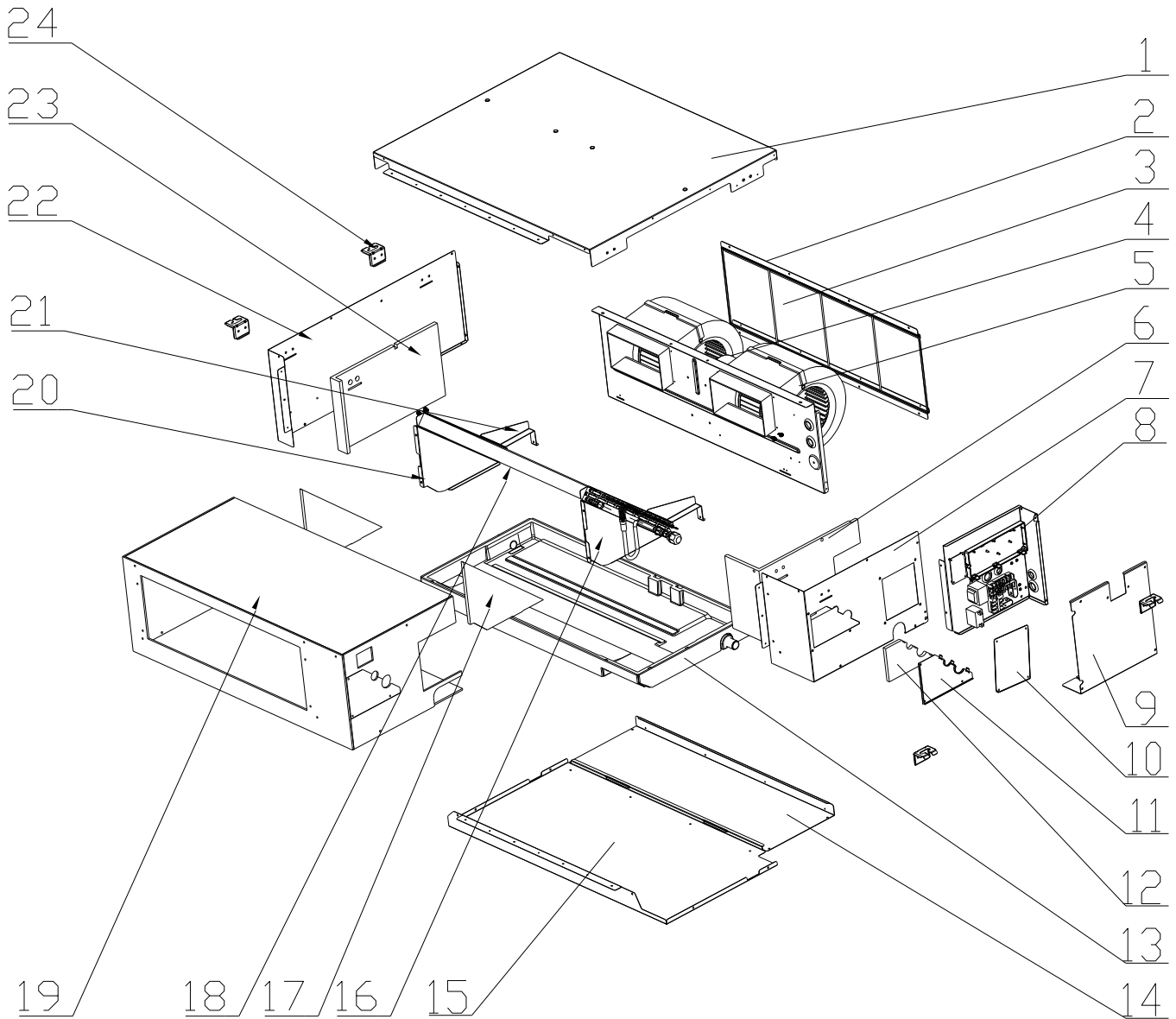


## R410A T1 ON/OFF LCAC B7 Series

| NO.  | Code           | Chinese                               | EN                    | Quantity |
|------|----------------|---------------------------------------|-----------------------|----------|
| 1    | 16421010000031 | QRD-120N/D 围板 A                       | BaffleA               | 1        |
|      | 16421010000032 | QRD-120N/D 围板 B                       | Baffle B              | 1        |
|      | 16421010000033 | QRD-120N/D 围板 C                       | Baffle C              | 1        |
| 2    | 16420014000031 | (ROHS)QRD-120N/E 阀板(改进)               | Valve plate           | 1        |
| 3    | 16320005000036 | QRD-120N/E 排水管组件                      | Drain pipe assembly   | 1        |
| 4    | 16433009000057 | 底座包装泡沫 QRD-120N/D                     | Chassis foam assembly | 1        |
| 5    | 16421026000254 | QRD-120N/D 水泵支架                       | Drain pump holder     | 1        |
| 6    | 16440001000016 | (ROHS)排水泵 PLD-1200(新天花)               | Drain pump            | 1        |
| 7    | 16445034000010 | (ROHS)浮子开关 GMF-31(带锁线扣)               | Float switch          | 1        |
| 8    | 16421040000046 | QR-120N/E 蒸发器挂钩(喷涂)                   | Evaporator hook       | 2        |
| 9    | 16324005000056 | QRD-120N/D 蒸发器总成                      | Evaporator assembly   | 1        |
| 10   | 16430001000516 | 电机(三速) XD80A                          | DC motor              | 1        |
| 11   | 16444001000028 | 风轮 $\phi 470 \times 170$ (ABS 新料)(白色) | Wind wheel            | 1        |
| 12   | 16320005000047 | (ROHS)QRD-120N/EB 接水盘泡沫组件(台阶)         | Drain pan assembly    | 1        |
| 13   | 16420004000007 | (ROHS)QRD-120N/ES 导风圈                 | Air guide ring        | 1        |
| 14   | 16421038000323 | QRD-120N/EAS 电控盒组件(加隔板)               | Electric box assembly | 1        |
| 15   | 16421038000326 | QRD-120N/EAS 电控盒盖(铆接)                 | Electric box cover    | 1        |
| 16   | 16108022000026 | 面板 08A                                | Panel MB08A           | 1        |
| 16.1 | 16420010000032 | 回风格栅                                  | Return air grille     | 1        |
| 16.2 | 11222014000718 | R 显示灯板组件                              | The led panel         | 1        |
| 16.3 | 16420012000001 | 过滤网                                   | fliter screen         | 1        |
| 16.4 | 16420007000034 | 导风叶片                                  | Guide the wind vane   | 4        |
| 16.5 | 16430001000133 | 步进电机                                  | Step motor            | 4        |
| 16.6 | 16420013000070 | 围框                                    | Panel box around      | 1        |
| 17   | 16108002000007 | 面板 12                                 | Panel MB12            | 1        |
| 17.1 | 16420010000004 | 回风格栅                                  | Return air grille     | 1        |
| 17.2 | 16420012000001 | 过滤网                                   | fliter screen         | 1        |
| 17.3 | 16420007000009 | 导风叶片                                  | Guide the wind vane   | 4        |
| 17.4 | 16430001000133 | 步进电机                                  | Step motor            | 4        |
| 17.5 | 16420014000010 | 围框                                    | Panel box around      | 1        |
| 17.6 | 11222014000704 | 显示灯板组件                                | The led panel         | 1        |

**2. Duct**

**2.1 CO-D 18HNX, CO-D 24HNX, CO-D 36HNX**



**CO-D 18HNX**

| NO | Chinese name    | Part name                   | Part code      | Qty |
|----|-----------------|-----------------------------|----------------|-----|
| 1  | 顶盖板组件           | Top cover                   | 16321009000285 | 1   |
| 2  | 过滤网法兰           | Flange                      | 16421030000209 | 2   |
| 3  | 缝制过滤网 810×245×4 | Air filter                  | 16444013000104 | 1   |
| 4  | 电机(三速) YSK100-4 | Fan motor                   | 16430001000542 | 1   |
| 5  | 蜗壳固定板组件         | Fixing plate of scroll case | 16321009000301 | 1   |

**R410A T1 ON/OFF LCAC B7 Series**

|      |                      |                                                          |                    |   |
|------|----------------------|----------------------------------------------------------|--------------------|---|
| 6    | 右侧板泡沫                | Foam board of right side panel                           | 1642800100005<br>7 | 1 |
| 7    | 右侧板                  | Right side panel                                         | 1642101000006<br>2 | 1 |
| 8    | 控制器总成                | Electrical assembly                                      | /                  |   |
| 8.1  | CJ 控制板               | PCB                                                      | 1122254100002<br>9 | 1 |
| 8.2  | (ROHS) 变压器           | Transformer                                              | 1642200500001<br>7 | 1 |
| 8.3  | 风机电容                 | Fan motor capacitor                                      | 1133001000010<br>5 | 1 |
| 8.4  | 端子板                  | Power terminal                                           | 1642700100005<br>5 | 1 |
| 9    | 电控盒盖                 | E-parts box cover                                        | 1642103800029<br>1 | 1 |
| 10   | 检修板                  | Service port cover                                       | 1642101300002<br>0 | 1 |
| 11   | 阀板 B                 | Valve plate B                                            | 1642101400006<br>9 | 1 |
| 12   | 出管阀板泡沫               | Foam board of valve plate                                | 1642800100005<br>9 | 1 |
| 13   | 接水盘组件(吸塑)            | Water pan assembly                                       | 1633100100012<br>5 | 1 |
| 14   | 回风盖板                 | Lower cover                                              | 1642100500056<br>4 | 1 |
| 15   | 下盖板                  | Lower cover                                              | 1642100500056<br>3 | 1 |
| 16   | 蒸发器右连接板              | Right connection plate                                   | 1642100700013<br>2 | 1 |
| 17   | 蒸发器挡板泡沫              | Foam board of connection plate                           | 1642800100005<br>6 | 2 |
| 18   | 蒸发器总成                | Evaporator assembly                                      | 1632400900023<br>5 | 1 |
| 19   | 保温棉套件                | Insulation cotton kit                                    | /                  |   |
| 19.1 | PE 保温棉板 顶盖板 A        | Thermal insulation board(inside the top cover A)         | 1643400100046<br>3 | 1 |
| 19.2 | PE-X 保温棉板 顶盖板外       | Thermal insulation board(outside the top cover)          | 1643400200012<br>5 | 2 |
| 19.3 | PE-X 保温棉板 阀板 B       | Thermal insulation board(outside the valve plate)        | 1643400200007<br>6 | 1 |
| 19.4 | PE-X 保温棉板 左侧板外       | Thermal insulation board(outside the left-side panel)    | 1643400200012<br>7 | 1 |
| 19.5 | PE-X 保温棉板 右侧板外       | Thermal insulation board(outside the right-side panel)   | 1643400200012<br>8 | 1 |
| 19.6 | (ROHS) PE-X 保温棉板 检修板 | Thermal insulation board(outside the service port cover) | 1643400200010<br>0 | 1 |
| 20   | 蒸发器左连接板              | Left connection plate                                    | 1642100700013<br>1 | 1 |

**R410A T1 ON/OFF LCAC B7 Series**

|    |        |                               |                    |   |
|----|--------|-------------------------------|--------------------|---|
| 21 | 蒸发器固定板 | Fixing plate of evaporator    | 1642100200043<br>3 | 2 |
| 22 | 左侧板    | Left side panel               | 1642101000006<br>1 | 1 |
| 23 | 左侧板泡沫  | Foam board of left side panel | 1642800100005<br>8 | 1 |
| 24 | 挂耳     | Hanger                        | 1642102900004<br>0 | 4 |

**CO-D 24HNX**

| NO   | Chinese name       | Part name                                        | Part code      | Qty |
|------|--------------------|--------------------------------------------------|----------------|-----|
| 1    | 顶盖板组件              | Top cover                                        | 16321009000285 | 1   |
| 2    | 过滤网法兰              | Flange                                           | 16421030000209 | 2   |
| 3    | 缝制过滤网              | Air filter                                       | 16444013000104 | 1   |
| 4    | 电机(三速) YSK160-4    | Fan motor                                        | 16430001000541 | 1   |
| 5    | 蜗壳固定板组件            | Fixing plate of scroll case                      | 16321009000302 | 1   |
| 6    | 右侧板泡沫              | Foam board of right side panel                   | 16428001000057 | 1   |
| 7    | 右侧板                | Right side panel                                 | 16421010000062 | 1   |
| 8    | 控制器总成              | Electrical assembly                              | /              |     |
| 8.1  | CJ 控制板             | PCB                                              | 11222541000029 | 1   |
| 8.2  | (ROHS) 变压器         | Transformer                                      | 16422005000017 | 1   |
| 8.3  | 风机电容               | Fan motor capacitor                              | 11330010000105 | 1   |
| 8.4  | 端子板 6 位            | Power terminal                                   | 16427001000055 | 1   |
| 9    | 电控盒盖               | E-parts box cover                                | 16421038000291 | 1   |
| 10   | 检修板                | Service port cover                               | 16421013000020 | 1   |
| 11   | 阀板 B               | Valve plate B                                    | 16421014000069 | 1   |
| 12   | 出管阀板泡沫             | Foam board of valve plate                        | 16428001000059 | 1   |
| 13   | 接水盘组件(吸塑)          | Water pan assembly                               | 16331001000125 | 1   |
| 14   | 回风盖板               | Lower cover                                      | 16421005000564 | 1   |
| 15   | 下盖板                | Lower cover                                      | 16421005000563 | 1   |
| 16   | 蒸发器右连接板            | Right connection plate                           | 16421007000132 | 1   |
| 17   | 蒸发器挡板泡沫            | Foam board of connection plate                   | 16428001000056 | 1   |
| 18   | 蒸发器总成              | Evaporator assembly                              | 16324009000222 | 1   |
| 19   | 保温棉套件              | Insulation cotton kit                            | /              | 1   |
| 19.1 | PE 保温棉板 24K 顶盖板 A  | Thermal insulation board(inside the top cover A) | 16434001000463 | 2   |
| 19.2 | PE-X 保温棉板 24K 顶盖板外 | Thermal insulation board(outside the top cover)  | 16434002000125 | 1   |
| 19.3 | PE 保温棉板            | Thermal insulation board                         | 16434001000442 | 1   |

**R410A T1 ON/OFF LCAC B7 Series**

|      |                |                                                          |                |   |
|------|----------------|----------------------------------------------------------|----------------|---|
| 19.4 | PE-X 保温棉板 阀板 B | Thermal insulation board(outside the valve plate)        | 16434002000076 | 1 |
| 19.5 | PE-X 保温棉板 左侧板外 | Thermal insulation board(outside left-side panel)        | 16434002000127 | 1 |
| 19.6 | PE-X 保温棉板 右侧板外 | Thermal insulation board(outside the right-side panel)   | 16434002000128 | 1 |
| 19.7 | PE-X 保温棉 检修板   | Thermal insulation board(outside the service port cover) | 16434002000100 | 1 |
| 20   | 蒸发器左连接板        | Left connection plate                                    | 16421007000131 | 1 |
| 21   | 蒸发器右固定板        | Fixing plate of evaporator                               | 16421002000433 | 2 |
| 22   | 左侧板            | Left side panel                                          | 16421010000061 | 1 |
| 23   | 左侧板泡沫          | Foam board of left side panel                            | 16428001000058 | 1 |
| 24   | 挂耳             | Hanger                                                   | 16421029000040 | 4 |

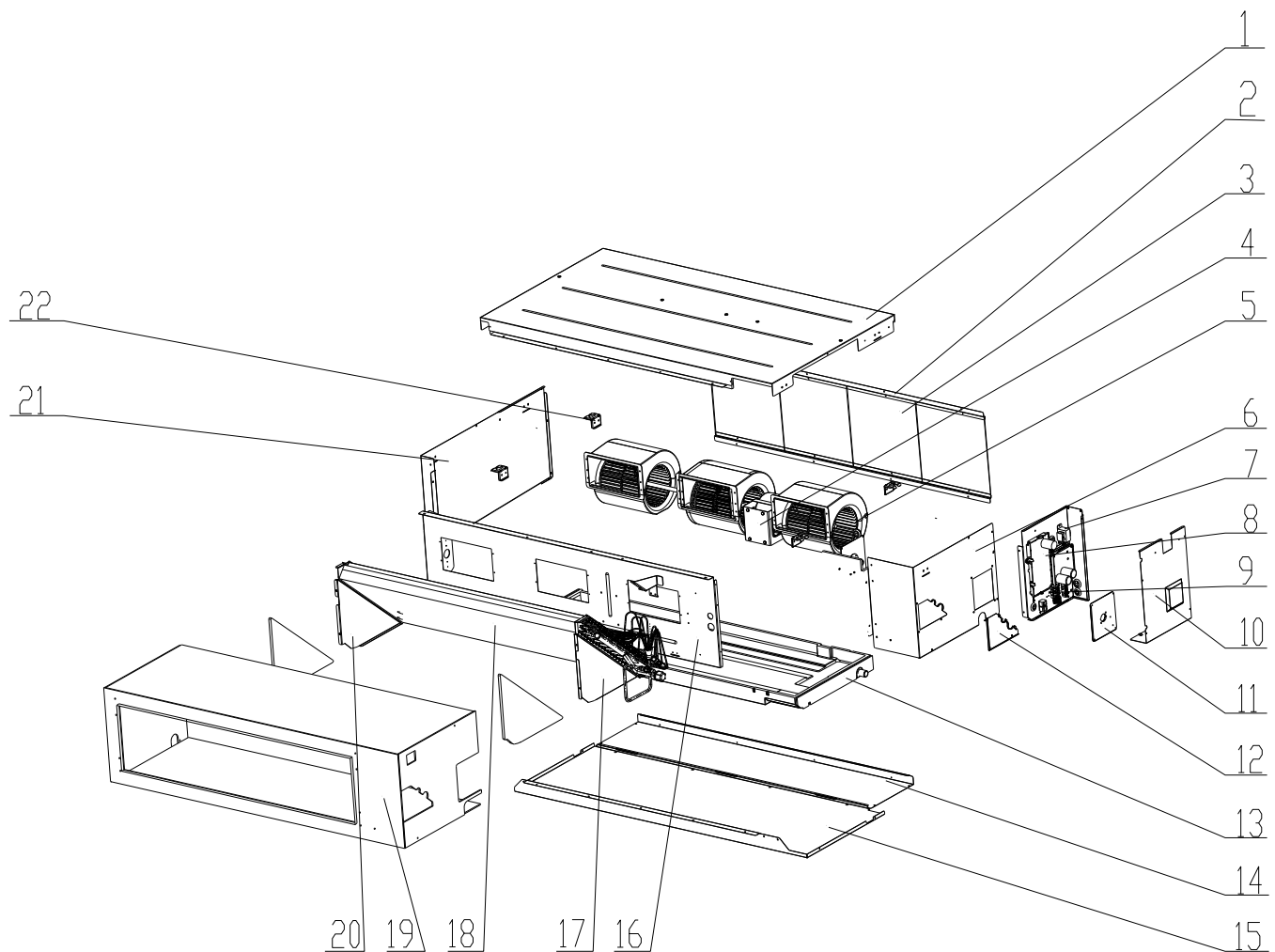
**CO-D 36HNX (single phase)**

| NO  | Chinese name    | Part name                      | Part code      | Qty |
|-----|-----------------|--------------------------------|----------------|-----|
| 1   | 顶盖板组件           | Top cover                      | 16321009000285 | 1   |
| 2   | 过滤网法兰           | Flange                         | 16421030000209 | 2   |
| 3   | 缝制过滤网           | Air filter                     | 16444013000104 | 1   |
| 4   | 电机(三速) YSK180-4 | Fan motor                      | 16430001000519 | 1   |
| 5   | 蜗壳固定板总成         | Fixing plate of scroll case    | 16321009000317 | 1   |
| 6   | 右侧板泡沫           | Foam board of right side panel | 16428001000057 | 1   |
| 7   | 右侧板             | Right side panel               | 16421010000062 | 1   |
| 8   | 控制器总成           | Electrical assembly            | /              | 1   |
| 8.1 | CJ 控制板          | PCB                            | 11222541000029 | 1   |
| 8.2 | (ROHS) 变压器      | Transformer                    | 16422005000017 | 1   |
| 8.3 | 风机电容            | Fan motor capacitor            | 11330010000096 | 1   |
| 8.4 | 端子板 6 位         | Power terminal                 | 16427001000055 | 1   |
| 9   | 电控盒盖            | E-parts box cover              | 16421038000291 | 1   |
| 10  | 检修板             | Service port cover             | 16421013000020 | 1   |
| 11  | 阀板 B            | Valve plate B                  | 16421014000069 | 1   |
| 12  | 出管阀板泡沫          | Foam board of valve plate      | 16428001000059 | 1   |
| 13  | 接水盘组件(吸塑)       | Water pan assembly             | 16331001000125 | 1   |
| 14  | 回风盖板            | Lower cover                    | 16421005000564 | 1   |

**R410A T1 ON/OFF LCAC B7 Series**

|      |                |                                                          |                |   |
|------|----------------|----------------------------------------------------------|----------------|---|
| 15   | 下盖板            | Lower cover                                              | 16421005000563 | 1 |
| 16   | 蒸发器右连接板        | Right connection plate                                   | 16421007000132 | 1 |
| 17   | 蒸发器挡板泡沫        | Foam board of connection plate                           | 16428001000056 | 2 |
| 18   | 蒸发器总成          | Evaporator assembly                                      | 16324009000222 | 1 |
| 19   | 保温棉套件          | Insulation cotton kit                                    | /              | 1 |
| 19.1 | PE 保温棉板 顶盖板 A  | Thermal insulation board(inside the top cover A)         | 16434001000463 | 1 |
| 19.2 | PE-X 保温棉板 顶盖板外 | Thermal insulation board(outside the top cover)          | 16434002000125 | 2 |
| 19.3 | PE 保温棉板        | Thermal insulation board                                 | 16434001000442 | 1 |
| 19.4 | PE-X 保温棉板 阀板 B | Thermal insulation board(outside the valve plate)        | 16434002000076 | 1 |
| 19.5 | PE-X 保温棉板左侧板外  | Thermal insulation board(outside left-side panel)        | 16434002000127 | 1 |
| 19.6 | PE-X 保温棉板右侧板外  | Thermal insulation board(outside the right-side panel)   | 16434002000128 | 1 |
| 19.7 | PE-X 保温棉板 检修板  | Thermal insulation board(outside the service port cover) | 16434002000100 | 1 |
| 20   | 蒸发器左连接板        | Left connection plate                                    | 16421007000131 | 1 |
| 21   | 蒸发器右固定板        | Fixing plate of evaporator                               | 16421002000433 | 2 |
| 22   | 左侧板            | Left side panel                                          | 16421010000061 | 1 |
| 23   | 左侧板泡沫          | Foam board of left side panel                            | 16428001000058 | 1 |
| 24   | 挂耳             | Hanger                                                   | 16421029000040 | 4 |

**2.3 CO-D 48HNX, CO-D 60HNX**



**CO-D 48HNX**

| NO | Chinese name | Part name       | Part code      | Qty |
|----|--------------|-----------------|----------------|-----|
| 1  | 上盖板组件        | Top cover       | 16321009000277 | 1   |
| 2  | 过滤网法兰        | Flange          | 16421030000206 | 2   |
| 3  | 缝制过滤网        | Air filter      | 16444013000103 | 1   |
| 4  | 电机(三速)       | Fan motor       | 16430001000635 | 1   |
| 5  | 风轮 φ185x170  | Centrifugal fan | 16444001000005 | 1   |
| 6  | 右侧板          | Right panel     | 16421001000696 | 1   |
| 7  | (ROHS)变压器    | Transformer     | 16422005000017 | 1   |
| 8  | CJ 控制板       | PCB             | 11222541000035 | 1   |

**R410A T1 ON/OFF LCAC B7 Series**

|    |                |                                       |                |   |
|----|----------------|---------------------------------------|----------------|---|
| 9  | 端子板 4 位        | Terminal                              | 16427001000062 | 1 |
| 10 | 电控盒盖           | E-parts box cover                     | 16421038000291 | 1 |
| 11 | 检修板            | Service port cover                    | 16421013000020 | 1 |
| 12 | 阀板 B           | Valve plate B                         | 16421014000069 | 1 |
| 13 | 接水盘组件(吸塑)      | Water pan assembly                    | 16331001000123 | 1 |
| 14 | 回风盖板           | Lower cover                           | 16421005000556 | 1 |
| 15 | 下盖板            | Lower cover                           | 16421005000555 | 1 |
| 16 | 蜗壳固定板总成        | Fixing plate of scroll case           | 16321009000318 | 1 |
| 17 | 蒸发器右支撑板        | Right support of evaporator           | 16421007000140 | 1 |
| 18 | 蒸发器总成          | Evaporator assembly                   | 16324009000227 | 1 |
| 19 | PE-X 保温棉板 出风口外 | Insulation board(near the air outlet) | 16434002000122 | 1 |
| 20 | 蒸发器左支撑板        | Left support of evaporator            | 16421007000141 | 1 |
| 21 | 左侧板            | Left panel                            | 16421001000697 | 1 |
| 22 | 挂耳             | Hanger                                | 16421029000040 | 4 |

**CO-D 60HNX**

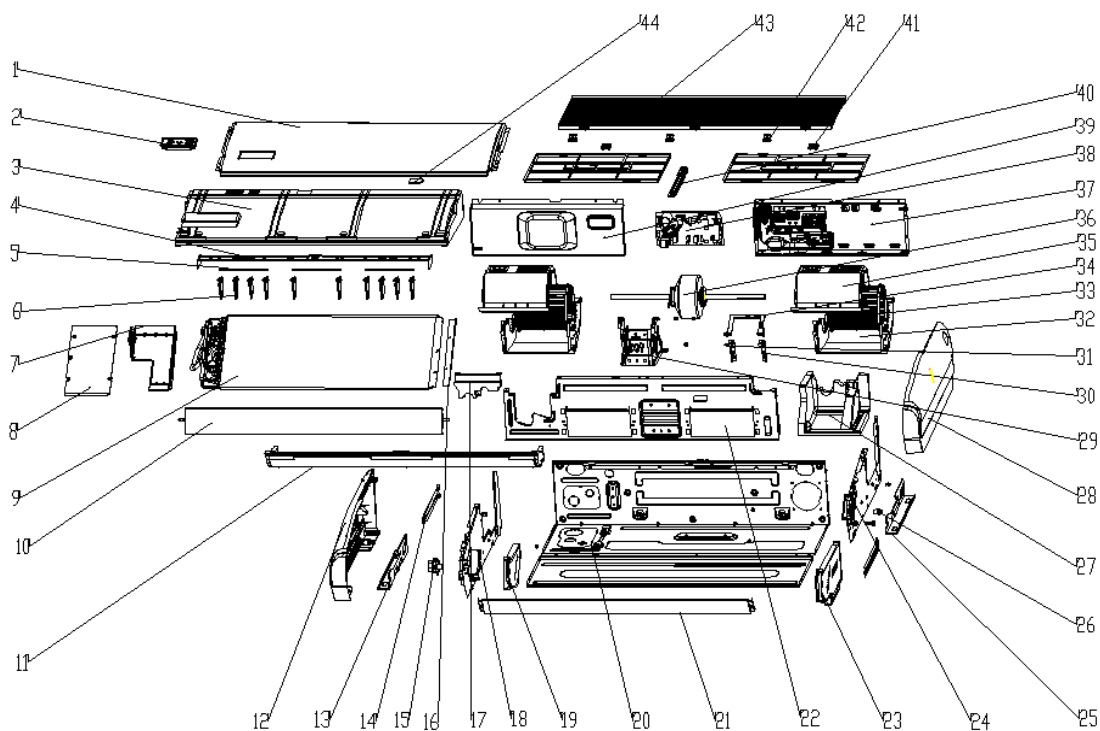
| NO | Chinese name | Part name                   | Part code      | Qty |
|----|--------------|-----------------------------|----------------|-----|
| 1  | 上盖板组件        | Top cover                   | 16321009000277 | 1   |
| 2  | 过滤网法兰        | Flange                      | 16421030000206 | 2   |
| 3  | 缝制过滤网        | Air filter                  | 16444013000103 | 1   |
| 4  | 电机(三速)       | Fan motor                   | 16430001000635 | 1   |
| 5  | 风轮 φ185x170  | Centrifugal fan             | 16444001000005 | 1   |
| 6  | 右侧板          | Right panel                 | 16421001000697 | 1   |
| 7  | (ROHS)变压器    | Transformer                 | 16422005000017 | 1   |
| 8  | CJ 控制板       | PCB                         | 11222541000035 | 1   |
| 9  | 端子板 4 位      | Terminal                    | 16427001000062 | 1   |
| 10 | 电控盒盖         | E-parts box cover           | 16421038000291 | 1   |
| 11 | 检修板          | Service port cover          | 16421013000020 | 1   |
| 12 | 阀板 B         | Valve plate B               | 16421014000069 | 1   |
| 13 | 接水盘组件(吸塑)    | Water pan assembly          | 16331001000123 | 1   |
| 14 | 回风盖板         | Lower cover                 | 16421005000556 | 1   |
| 15 | 下盖板          | Lower cover                 | 16421005000555 | 1   |
| 16 | 蜗壳固定板总成      | Fixing plate of scroll case | 16321009000318 | 1   |
| 17 | 蒸发器右支撑板      | Right support of evaporator | 16421007000140 | 1   |

### R410A T1 ON/OFF LCAC B7 Series

|    |                |                                       |                |   |
|----|----------------|---------------------------------------|----------------|---|
| 18 | 蒸发器总成          | Evaporator assembly                   | 16324009000227 | 1 |
| 19 | PE-X 保温棉板 出风口外 | Insulation board(near the air outlet) | 16434002000122 | 1 |
| 20 | 蒸发器左支撑板        | Left support of evaporator            | 16421007000141 | 1 |
| 21 | 左侧板            | Left panel                            | 16421001000697 | 1 |
| 22 | 挂耳             | Hanger                                | 16421029000040 | 4 |

## 3. Ceiling Floor(F)

### 3.1 CO-F 18HNX



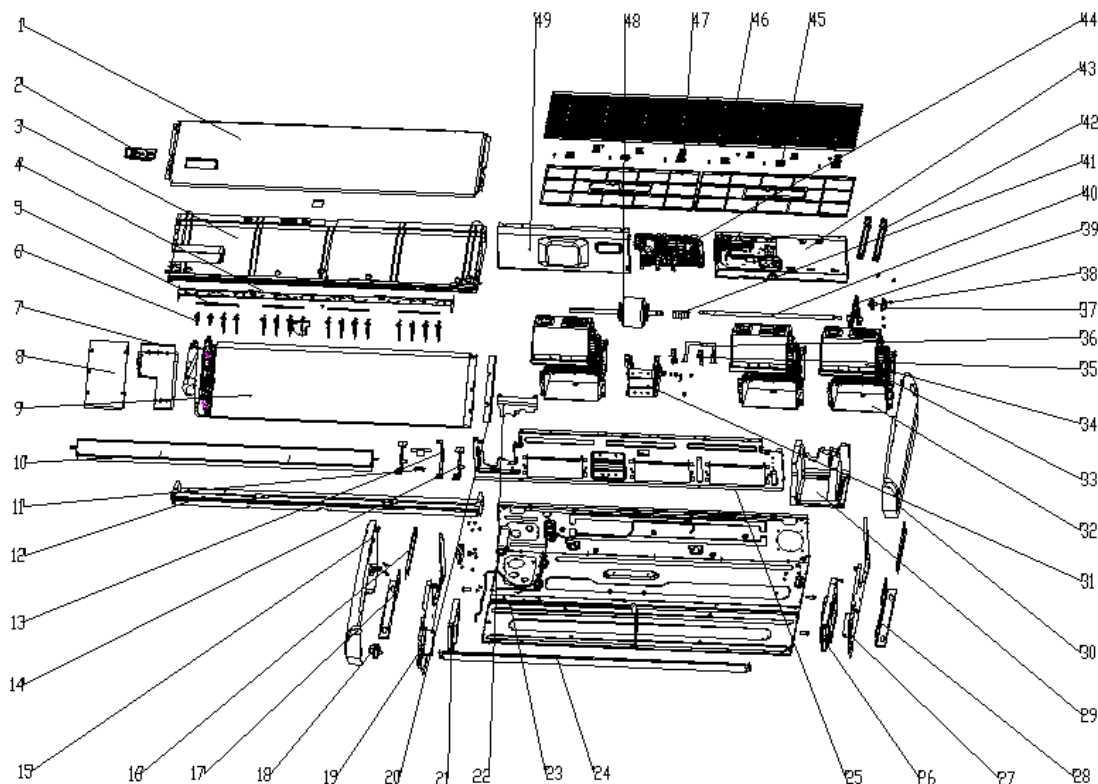
**R410A T1 ON/OFF LCAC B7 Series****CO-F 18HNX**

| NO | Part code      | Chinese name                             | Part name                                             | Qty |
|----|----------------|------------------------------------------|-------------------------------------------------------|-----|
| 1  | 16421004000399 | F2 座吊机面板(喷涂)                             | Main mental panel (spraying)                          | 1   |
| 2  | 11222023000610 | 显示板组件 XZ-SMG01-E1(SY)                    | LED Display Panel assy                                | 1   |
| 3  | 16320020000001 | (ROHS)F2 座吊机接水盘组件(吸塑)                    | Water tray assembly for F2 crane (blister)            | 1   |
| 4  | 16421002000526 | 2P 座吊机 F 导风架                             | wind guide for 2P crane                               | 1   |
| 5  | 16420008000016 | F 座吊机导风叶片连接杆(PP,黑色)                      | Connecting rod for air guide vane of crane            | 3   |
| 6  | 16420007000038 | F 座吊机导风叶片 A(HIPS,底座灰)                    | Air guide blade A(HIPS, base ash) of crane            | 8   |
| 7  | 16321072000002 | ALCF-H24A4F3/R3VDS1-C2 右导水板组件(F 坐吊机)     | Right Water guide Plate Assembly                      | 1   |
| 8  | 16321027000022 | ALCF-H24A4F3/R3VDS1-C2 右盖板组件(F 座吊机)      | Right Cover Assembly                                  | 1   |
| 9  | 16324018000057 | ALCF-H18A4F2/R3VDS1-C2 蒸发器总成(3 排 7)1.5 蓝 | Evaporator Assembly (Row 3, Row 7)1.5 blue            | 1   |
| 10 | 16320027000001 | 2P 座吊机 F 导风架组件                           | F wind guide assembly for 2P crane                    | 1   |
| 11 | 16428001000099 | F2 座吊机 顶泡沫组件                             | Top foam assembly of crane F2                         | 1   |
| 12 | 16420050000001 | F 座吊机右端盖(HIPS,云釉白)                       | HIPS (cloud glaze white)                              | 1   |
| 13 | 16421040000071 | F 座吊机安装挂架(右)                             | Installation hanger of Block F crane (right)          | 1   |
| 14 | 16421003000222 | (ROHS)F 座吊机侧支撑板                          | Side support plate of crane in Block F                | 2   |
| 15 | 16320033000002 | F 座吊机运动组件 35BYJ46*1550                   | F block crane motion assembly 35BYJ46*1550            | 1   |
| 16 | 16421017000025 | (ROHS)F 座吊机蒸发器左导水板                       | Left water guide plate of F block crane evaporator    | 1   |
| 17 | 16321054000002 | ALCF-H24A4F3/R3VDS1-C2 阀板组件(F 座吊机)       | Valve Plate Assembly                                  | 1   |
| 18 | 16421001000776 | F 座吊机右侧板                                 | F crane right side plate                              | 1   |
| 19 | 16428001000097 | F 座吊机 右泡沫(植绒+贴棉)                         | F block crane right foam (flocking + cotton sticking) | 1   |
| 20 | 16421018000009 | (ROHS)2P 座吊机 F 背板                        | backplane of 2P crane                                 | 1   |
| 21 | 16421068000009 | F2 座吊机顶盖板(喷涂)                            | Ceiling plate of F2 crane (spraying)                  | 1   |
| 22 | 16421088000008 | 2P 座吊机 F 蜗壳固定板                           | F volute mounting plate for 2P crane                  | 1   |

**R410A T1 ON/OFF LCAC B7 Series**

|    |                |                              |                                                               |   |
|----|----------------|------------------------------|---------------------------------------------------------------|---|
| 23 | 16428001000098 | F 座吊机 左泡沫(植绒+贴棉)             | F block crane left foam (flocking + cotton sticking)          | 1 |
| 24 | 16421001000777 | F 座吊机左侧板                     | Left side panel of F block crane                              | 1 |
| 25 | 16421040000070 | F 座吊机安装挂架(左)                 | Installation hanger of Block F crane (left)                   | 1 |
| 26 | 16420044000002 | F 座吊机导风门轴套(POM,本色)           | Shaft sleeve for air inlet door of crane (POM, natural color) | 1 |
| 27 | 16428001000094 | F 座吊机 阀板泡沫                   | F block crane valve plate foam                                | 1 |
| 28 | 16420050000002 | F 座吊机左端盖(HIPS,云釉白)           | HIPS (cloud glaze white)                                      | 1 |
| 29 | 16421035000082 | (ROHS)F 座吊机电机架(100,φ65)      | Fan motor bracket (100, φ65)                                  | 1 |
| 30 | 16421029000067 | (ROHS)F 座吊机电机抱攀(L)(φ65)      | F block crane motor lock pan (L)                              | 1 |
| 31 | 16421029000066 | (ROHS)F 座吊机电机抱攀(R)(φ65)      | F block crane motor lock pan                                  | 1 |
| 32 | 16420027000002 | 蜗壳(下)F 座吊机(ABS,白色)(ROHS)     | Volute (bottom)F Crane (ABS, white)                           | 2 |
| 33 | 16420018000001 | F 座吊机风轮 158*180(ABS+GF10,本色) | Fan wheel 158*180(ABS+GF10)                                   | 2 |
| 34 | 16421007000183 | (ROHS)F 座吊机电机连接板(交流)         | (ROHS) Motor Connecting plate of Crane F block (AC)           | 1 |
| 35 | 16420027000001 | 蜗壳(上)F 座吊机(ABS,白色)(ROHS)     | Volute (top)F Crane (ABS, white)(ROHS)                        | 2 |
| 36 | 16421035000084 | 单相室内电机(三速)FP40F 50/60Hz      | Fan motor FP40F                                               | 1 |
| 37 | 16421038000387 | F 座吊机电控盒                     | F block crane electric control box                            | 1 |
| 38 | 16322006000042 | (ROHS)F 座吊机电控盒组件(TOX)        | TOX for Block F crane                                         | 1 |
| 39 | 16421042000021 | F 座吊机电控盒盖                    | Electric control box cover of crane block F                   | 1 |
| 40 | 16421002000529 | F 座吊机后支撑板                    | F block crane rear support plate                              | 1 |
| 41 | 16420049000001 | F 座吊机格栅固定销(HIPS,月光白)         | F block crane grid fixed pin (HIPS, moonlight white)          | 3 |
| 42 | 16420051000001 | F 座吊机格栅铰链(HIPS,月光白)          | F block crane grid hinge (HIPS, moonlight white)              | 3 |
| 43 | 16420010000042 | F2 座吊机进风格栅((HIPS),云釉白)       | F2 crane air inlet grille (HIPS, cloud glaze white)           | 1 |
| 44 | 16421083000001 | F 座吊机集水盘固定板                  | Fixed plate for collecting tray of block F crane              | 1 |

## 3.2 CO-F 24HNX, CO-F 36HNX



| NO | Part Code      | Chinese Name                              | Part Name                                              | Qty |
|----|----------------|-------------------------------------------|--------------------------------------------------------|-----|
| 1  | 16421004000400 | F3 座吊机面板(喷涂)                              | Main mental pane(spraying)                             | 1   |
| 2  | 11222023000610 | 显示板组件 XZ-SMG01-E1 (SY)                    | LED Display Panel assy                                 | 1   |
| 3  | 16320020000002 | (ROHS) F3 座吊机接水盘组件(吸塑)                    | (ROHS) Water tray assembly for F3 crane (blister)      | 1   |
| 4  | 16320027000002 | 3P 座吊机 F 导风架组件                            | F wind guide assembly for 3P crane                     | 1   |
| 5  | 16420008000016 | F 座吊机导风叶片连接杆(PP, 黑色)                      | Connecting rod for air guide vane of crane (PP, black) | 4   |
| 6  | 16420007000039 | F 座吊机导风叶片 B(HIPS, 底座灰)                    | Air guide blade B(HIPS, base ash)                      | 2   |
| 7  | 16321072000002 | ALCF-H24A4F3/R3VDS1-C2 右导水板组件(F 坐吊机)      | Right Water guide Plate Assembly (F crane)             | 1   |
| 8  | 16321027000022 | ALCF-H24A4F3/R3VDS1-C2 右盖板组件(F 座吊机)       | Right Cover Assembly (F block crane)                   | 1   |
| 9  | 16324018000058 | ALCF-H24A4F3/R3VDS1-C2 蒸发器总成(3 排 7) 1.5 蓝 | evaporator Assembly (Row 3, Row 7) 1.5 blue            | 1   |
| 10 | 16320028000002 | 3P 座吊机 F 导风门组件                            | F damper assembly for 3P crane                         | 1   |
| 11 | 16421002000525 | F 座吊机前固定板                                 | F block crane front fixing plate                       | 1   |

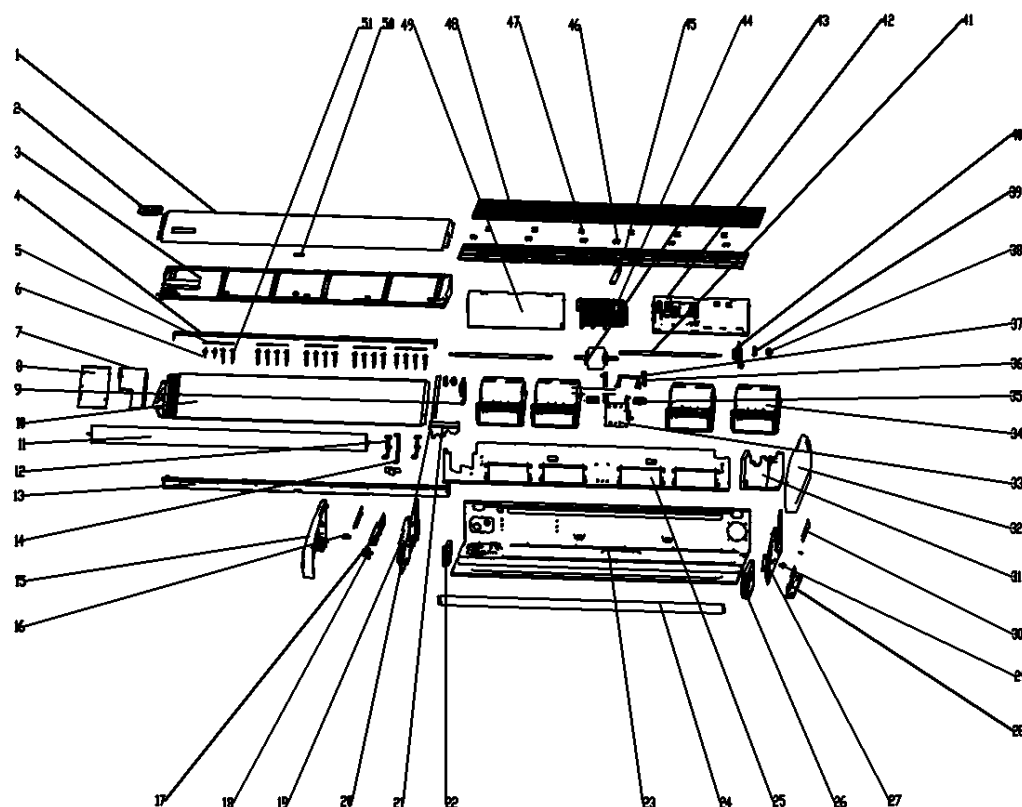
## R410A T1 ON/OFF LCAC B7 Series

|    |                |                                       |                                                       |   |
|----|----------------|---------------------------------------|-------------------------------------------------------|---|
| 12 | 16428001000100 | F3 座吊机 顶泡沫组件                          | F3-seat crane top foam assembly                       | 1 |
| 13 | 16321047000003 | ALCF-H24A4F3/R3VDS1-C2 前支撑板组件 (F 座吊机) | Front Support Plate Assembly (F block crane)          | 1 |
| 14 | 16420006000011 | F 座吊机导风门支架 (POM, 底座灰)                 | Air damper bracket for Crane with Block F (POM)       | 2 |
| 15 | 16420050000001 | F 座吊机右端盖 (HIPS, 云釉白)                  | HIPS (cloud glaze white)                              | 1 |
| 16 | 16421003000222 | (ROHS) F 座吊机侧支撑板                      | (ROHS) Side support plate of crane                    | 2 |
| 17 | 16421040000071 | F 座吊机安装挂架 (右)                         | Installation hanger of Block F crane (right)          | 1 |
| 18 | 16320033000002 | F 座吊机运动组件 35BYJ46*1550                | F block crane motion assembly 35BYJ46*1550            | 1 |
| 19 | 16421001000776 | F 座吊机右侧板                              | F crane right side plate                              | 1 |
| 20 | 16421017000025 | (ROHS) F 座吊机蒸发器左导水板                   | Left water guide plate of F block crane evaporator    | 1 |
| 21 | 16428001000097 | F 座吊机 右泡沫 (植绒+贴棉)                     | F block crane right foam (flocking + cotton sticking) | 1 |
| 22 | 16321054000002 | ALCF-H24A4F3/R3VDS1-C2 阀板组件 (F 座吊机)   | Valve Plate Assembly (F block crane)                  | 1 |
| 23 | 16421018000010 | (ROHS) 3P 座吊机 F 背板                    | (ROHS) F backplane of 3P crane                        | 1 |
| 24 | 16421068000010 | F3 座吊机顶盖板 (喷涂)                        | F3 crane roof cover (spraying)                        | 1 |
| 25 | 16421088000009 | 3P 座吊机 F 蜗壳固定板                        | F volute mounting plate for 3P crane                  | 1 |
| 26 | 16428001000098 | F 座吊机 左泡沫 (植绒+贴棉)                     | F block crane left foam (flocking + cotton sticking)  | 1 |
| 27 | 16421001000777 | F 座吊机左侧板                              | Left side panel of F block crane                      | 1 |
| 28 | 16421040000070 | F 座吊机安装挂架 (左)                         | Installation hanger of Block F crane (left)           | 1 |
| 29 | 16428001000094 | F 座吊机 阀板泡沫                            | F block crane valve plate foam                        | 1 |
| 30 | 16420050000002 | F 座吊机左端盖 (HIPS, 云釉白)                  | HIPS (cloud glaze white)                              | 1 |
| 31 | 16421035000084 | (ROHS) F 座吊机电机架 (118, $\phi$ 65)      | (ROHS) Electric rack of F block Crane (118, 65)       | 1 |
| 32 | 16420027000002 | 蜗壳 (下) F 座吊机 (ABS, 白色) (ROHS)         | Volute (bottom) F Crane (ABS, white) (ROHS)           | 3 |
| 33 | 16420018000001 | F 座吊机风轮 158*180 (ABS+GF10, 本色)        | Fan wheel 158*180 (ABS+GF10)                          | 3 |
| 34 | 16420027000001 | 蜗壳 (上) F 座吊机 (ABS, 白色) (ROHS)         | Volute (top) F Crane (ABS, white) (ROHS)              | 3 |
| 35 | 16421029000067 | (ROHS) F 座吊机电机抱攀 (L) ( $\phi$ 65)     | (ROHS) F block crane motor lock pan (L) (65)          | 1 |
| 36 | 16421007000183 | (ROHS) F 座吊机电机连接板 (交流)                | (ROHS) Motor Connecting plate of Crane F block (AC)   | 1 |
| 37 | 16432016000075 | 橡胶轴承 GR-75D/DL                        | Rubber bearing GR-75D/DL                              | 2 |
| 38 | 16421002000467 | GR-51D/DHE 轴承压板                       | Gr-51d /DHE bearing press plate                       | 2 |
| 39 | 16421082000001 | F 座吊机轴承固定座 (L)                        | F block crane bearing fixed block (L)                 | 1 |

**R410A T1 ON/OFF LCAC B7 Series**

|    |                |                                  |                                                      |   |
|----|----------------|----------------------------------|------------------------------------------------------|---|
| 40 | 16421080000002 | (ROHS) 加长轴 (空心) $\phi$ 15*507.5  | (ROHS) extended axis (hollow) 15*507.5               | 1 |
| 41 | 16444007000036 | (ROHS) 联轴器 $\phi$ 14*57.5 (18 款) | ROHS coupling 14*57.5(18 types)                      | 1 |
| 42 | 16421002000529 | F 座吊机后支撑板                        | F block crane rear support plate                     | 2 |
| 43 | 16421038000387 | F 座吊机电控盒                         | F block crane electric control box                   | 1 |
| 44 | 16322006000042 | (ROHS) F 座吊机电控盒组件 (TOX)          | TOX for Block F crane                                | 1 |
| 45 | 16420049000001 | F 座吊机格栅固定销 (HIPS, 月光白)           | F block crane grid fixed pin (HIPS, moonlight white) | 3 |
| 46 | 16420010000043 | F3 座吊机进风格栅 ((HIPS), 云釉白)         | F3-seat crane air inlet grille (CLOUD glaze white)   | 1 |
| 47 | 16420051000001 | F 座吊机格栅铰链 (HIPS, 月光白)            | F block crane grid hinge (HIPS, moonlight white)     | 3 |
| 48 | 16430001000663 | 单相室内电机 (三速) FP100F 50/60Hz       | Fan motor FP100F                                     | 1 |
| 49 | 16421042000021 | F 座吊机电控盒盖                        | Electric control box cover of crane block F          | 1 |

## 3.3 CO-F 48HNX, CO-F 60HNX



| NO. | Part Code      | Chinese Name                         | Part Name                                                           | Qty |
|-----|----------------|--------------------------------------|---------------------------------------------------------------------|-----|
| 1   | 16421004000401 | F5 座吊机面板(喷涂)                         | Main mental panel (spraying)                                        | 1   |
| 2   | 11222023000610 | 显示板组件 XZ-SMG01-E1(SY)                | LED Display Panel assy                                              | 1   |
| 3   | 16320020000003 | (ROHS)F5 座吊机接水盘组件(吸塑)                | (ROHS) Water tray assembly for F5 crane (blister)                   | 1   |
| 4   | 16321039000006 | 5P 座吊机 F 导风架组件(翻边自铆)                 | 5P crane F air Guide assembly (flanging self-riveting)              | 1   |
| 5   | 16420008000016 | F 座吊机导风叶片连接杆(PP,黑色)                  | Connecting rod for air guide vane of crane with Block F (PP, black) | 5   |
| 6   | 16420007000039 | F 座吊机导风叶片 B(HIPS,底座灰)                | Air guide blade B(HIPS, base ash)                                   | 2   |
| 7   | 16321072000002 | ALCF-H24A4F3/R3VDS1-C2 右导水板组件(F 坐吊机) | Alcf-h24a4f3 /R3VDS1-C2 Right Water guide Plate Assembly (F crane)  | 1   |
| 8   | 16421071000001 | ALCF-H24A4F3/R3VDS1-C2 右盖板组件(F 座吊机)  | Alcf-h24a4f3 /R3VDS1-C2 Right Cover                                 | 1   |

**R410A T1 ON/OFF LCAC B7 Series**

|    |                |                                         |                                                                      |   |
|----|----------------|-----------------------------------------|----------------------------------------------------------------------|---|
|    |                |                                         | Assembly (F block crane)                                             |   |
| 9  | 16421082000002 | F 座吊机轴承固定座(R)                           | F block crane Bearing fixed block (R)                                | 1 |
| 10 | 16324018000059 | ALCF-H48A5F5/R3VDS1-C2 蒸发器总成(3排 7)1.5 蓝 | Alcf-h48a5f5 /R3VDS1-C2 evaporator Assembly (Row 3, Row 7)1.5 blue   | 1 |
| 11 | 16320028000003 | 5P 座吊机 F 导风门组件                          | 5P crane F damper assembly                                           | 2 |
| 12 | 16420006000011 | F 座吊机导风门支架(POM,底座灰)                     | Air damper bracket for Crane with Block F (POM, base ash)            | 1 |
| 13 | 16428001000101 | F5 座吊机 顶泡沫组件                            | F5-seat crane top foam assembly                                      | 1 |
| 14 | 16321047000003 | ALCF-H24A4F3/R3VDS1-C2 前支撑板组件(F 座吊机)    | Alcf-h24a4f3 /R3VDS1-C2 Front Support Plate Assembly (F block crane) | 1 |
| 15 | 16420050000001 | F 座吊机右端盖(HIPS,云釉白)                      | HIPS (cloud glaze white)                                             | 1 |
| 16 | 16421002000525 | F 座吊机前固定板                               | F block crane front fixing plate                                     | 1 |
| 17 | 16421040000071 | F 座吊机安装挂架(右)                            | Installation hanger of Block F crane (right)                         | 1 |
| 18 | 16320033000003 | 5P 座吊机 F 运动组件 35BYJ46*2000              | F motion assembly of 5P crane 35BYJ46*2000                           | 1 |
| 19 | 16421001000776 | F 座吊机右侧板                                | F crane right side plate                                             | 1 |
| 20 | 16421017000025 | (ROHS)F 座吊机蒸发器左导水板                      | (ROHS) Left water guide plate of F block crane evaporator            | 1 |
| 21 | 16321054000002 | ALCF-H24A4F3/R3VDS1-C2 阀板组件(F 座吊机)      | Alcf-h24a4f3 /R3VDS1-C2 Valve Plate Assembly (F block crane)         | 1 |
| 22 | 16428001000097 | F 座吊机 右泡沫(植绒+贴棉)                        | F block crane right foam (flocking + cotton sticking)                | 1 |
| 23 | 16421018000011 | (ROHS)5P 座吊机 F 背板                       | (ROHS) F backplane of crane with 5P seat                             | 1 |
| 24 | 16421068000011 | F5 座吊机顶盖板(喷涂)                           | F5 crane roof cover (spraying)                                       | 1 |
| 25 | 16421088000010 | 5P 座吊机 F 蜗壳固定板                          | 5P crane F volute fixing plate                                       | 1 |

**R410A T1 ON/OFF LCAC B7 Series**

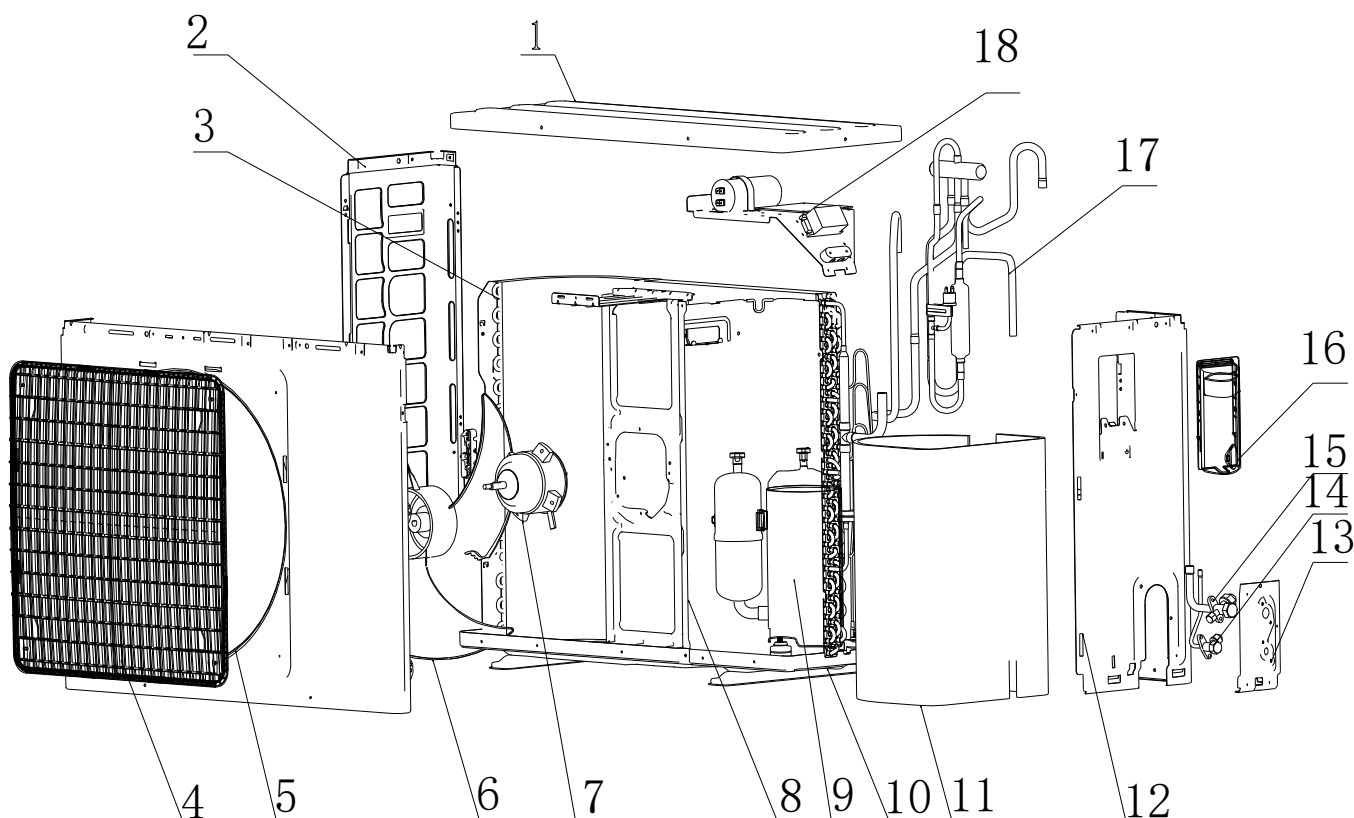
|    |                |                                |                                                                            |   |
|----|----------------|--------------------------------|----------------------------------------------------------------------------|---|
| 26 | 16428001000098 | F 座吊机 左泡沫(植绒+贴棉)               | F block crane left foam (flocking + cotton sticking)                       | 1 |
| 27 | 16421001000777 | F 座吊机左侧板                       | Left side panel of F block crane                                           | 1 |
| 28 | 16421040000070 | F 座吊机安装挂架(左)                   | Installation hanger of Block F crane (left)                                | 1 |
| 29 | 16420044000002 | F 座吊机导风门轴套(POM,本色)             | Shaft sleeve for air inlet door of crane with Block F (POM, natural color) | 1 |
| 30 | 16421003000222 | (ROHS)F 座吊机侧支撑板                | (ROHS) Side support plate of crane in Block F                              | 2 |
| 31 | 16428001000094 | F 座吊机 阀板泡沫                     | F block crane valve plate foam                                             | 1 |
| 32 | 16420050000002 | F 座吊机左端盖(HIPS,云釉白)             | HIPS (cloud glaze white)                                                   | 1 |
| 33 | 16421035000084 | (ROHS)F 座吊机电机架(118, $\phi$ 65) | (ROHS) Electric rack of F block Crane (118, 65)                            | 1 |
| 34 | 16420027000002 | 蜗壳(下)F 座吊机(ABS,白色)(ROHS)       | Volute (bottom)F Crane (ABS, white)(ROHS)                                  |   |
| 35 | 16420018000001 | F 座吊机风轮 158*180(ABS+GF10,本色)   | F block crane wind wheel 158*180(ABS+GF10, natural color)                  |   |
| 36 | 16420027000001 | 蜗壳(上)F 座吊机(ABS,白色)(ROHS)       | Volute (top) Crane with F seat (ABS, white)(ROHS)                          | 4 |
| 37 | 16444007000036 | (ROHS)联轴器 $\phi$ 14*57.5(18 款) | ROHS coupling 14*57.5(18 types)                                            | 2 |
| 38 | 16421029000067 | (ROHS)F 座吊机电机抱攀(L)( $\phi$ 65) | (ROHS)F block crane motor lock pan (L)(65)                                 | 1 |
| 39 | 16421007000180 | (ROHS)F 座吊机电机连接板(直流)           | (ROHS) Motor Connecting plate of Crane F block (DC)                        | 1 |
| 40 | 16432016000075 | 橡胶轴承 GR-75D/DL                 | Rubber bearing GR-75D/DL                                                   | 2 |
| 41 | 16421002000467 | GR-51D/DHE 轴承压板                | Gr-51d /DHE bearing press plate                                            | 2 |
| 42 | 16421082000001 | F 座吊机轴承固定座(L)                  | F block crane bearing fixed block (L)                                      | 1 |
| 43 | 16421080000002 | (ROHS)加长轴(空心) $\phi$ 15*507.5  | (ROHS) extended axis (hollow) 15*507.5                                     | 2 |
| 44 | 16421038000387 | F 座吊机电控盒                       | F block crane electric control box                                         | 1 |
| 45 | 16430001000664 | 单相室内电机(三速)FP140F 50/60Hz       | Fan motor FP140F                                                           | 1 |
| 46 | 16321019000021 | F 座吊机电控总成                      | Electric control                                                           | 1 |

**R410A T1 ON/OFF LCAC B7 Series**

|    |                |                        |                                                      |   |
|----|----------------|------------------------|------------------------------------------------------|---|
|    |                |                        | assembly for block F crane                           |   |
| 47 | 16421002000529 | F 座吊机后支撑板              | F block crane rear support plate                     | 2 |
| 48 | 16420049000001 | F 座吊机格栅固定销(HIPS,月光白)   | F block crane grid fixed pin (HIPS, moonlight white) | 3 |
| 49 | 16420051000001 | F 座吊机格栅铰链(HIPS,月光白)    | F block crane grid hinge (HIPS, moonlight white)     | 3 |
| 50 | 16420010000044 | F5 座吊机进风格栅((HIPS),月光白) | F5 crane air inlet grille (Moonlight white)          | 1 |
| 51 | 16421042000021 | F 座吊机电控盒盖              | Electric control box cover of crane block F          | 1 |
| 52 | 16421083000001 | F 座吊机集水盘固定板            | Fixed plate for collecting tray of block F crane     | 1 |

## 4. Outdoor Unit

### 4.1 CO-E 12HNX

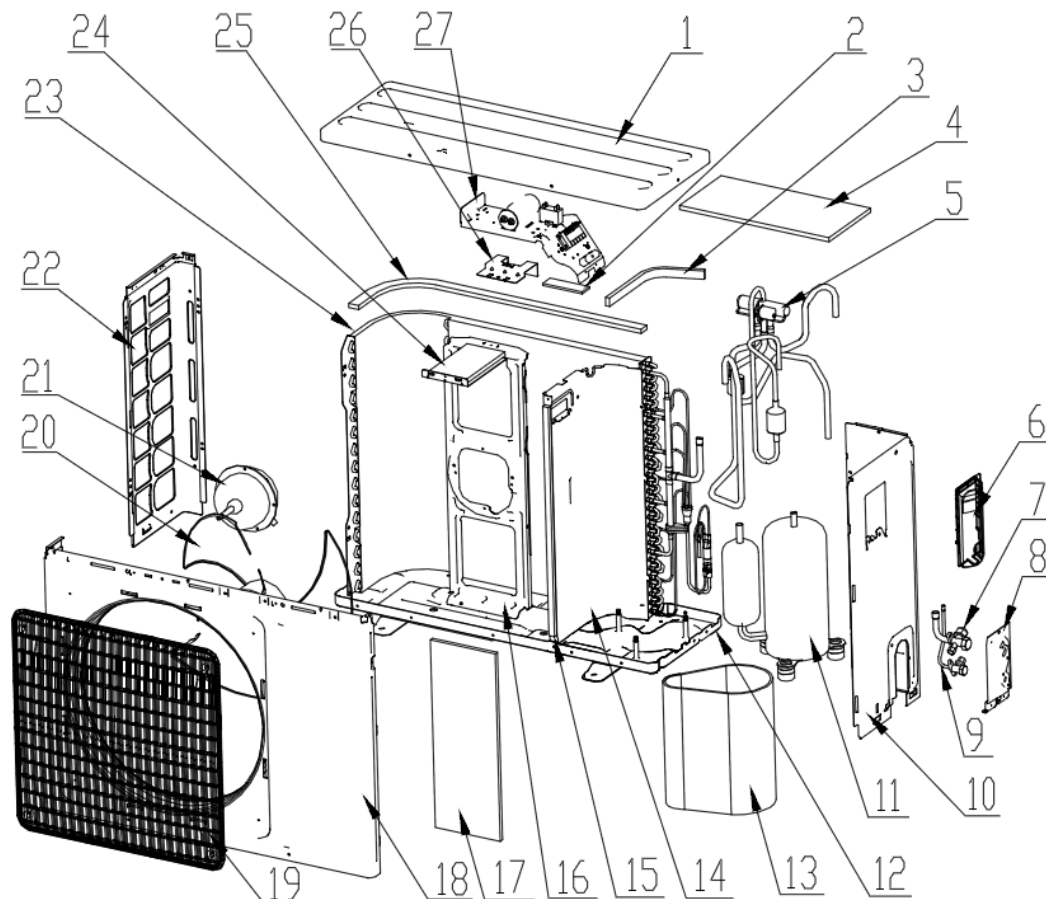


| NO. | Chinese name | Part name                       | Part code      | Qty |
|-----|--------------|---------------------------------|----------------|-----|
| 1   | R26W/L 顶盖板   | Top cover                       | 16421005000604 | 1   |
| 2   | R26W/L 左侧板   | Left panel                      | 16421001000726 | 1   |
| 3   | 冷凝器总成        | Condenser assembly              | 16324004000599 | 1   |
| 4   | 面板塑料网罩       | Wind net                        | 11320026000038 | 1   |
| 5   | 面板           | Front panel                     | 16421004000348 | 1   |
| 6   | 轴流风叶         | Propeller fan                   | 11320009000049 | 1   |
| 7   | 外电机 YDK25-6  | Outdoor unit motor              | 11230004000394 | 1   |
| 8   | 电机架          | Motor bracket                   | 11321002000039 | 1   |
| 9   | 压缩机          | Compressor                      | 11223016000011 | 1   |
| 10  | 底盘组件         | Chassis assembly                | 11221502000447 | 1   |
| 11  | 压缩机消音棉       | Silencing cotton for compressor | 11327002000020 | 1   |
| 12  | 右侧板          | Right panel                     | 16421001000725 | 1   |
| 13  | 阀板           | Valve plate                     | 16421014000090 | 1   |
| 14  | 截止阀 (φ6.35)  | Stop valve(φ6.35)               | 11325041000004 | 1   |
| 15  | 截止阀 (φ12.7)  | Stop valve(φ12.7)               | 16441004000077 | 1   |
| 16  | 电器盖板         | E-parts cover                   | 11320068000009 | 1   |

## R410A T1 ON/OFF LCAC B7 Series

|    |         |                                 |                |   |
|----|---------|---------------------------------|----------------|---|
| 17 | 四通阀管路组件 | 4-way valve assembly            | 11225516001019 | 1 |
| 18 | 电器架     | Support for electrical assembly | 11321015000033 | 1 |

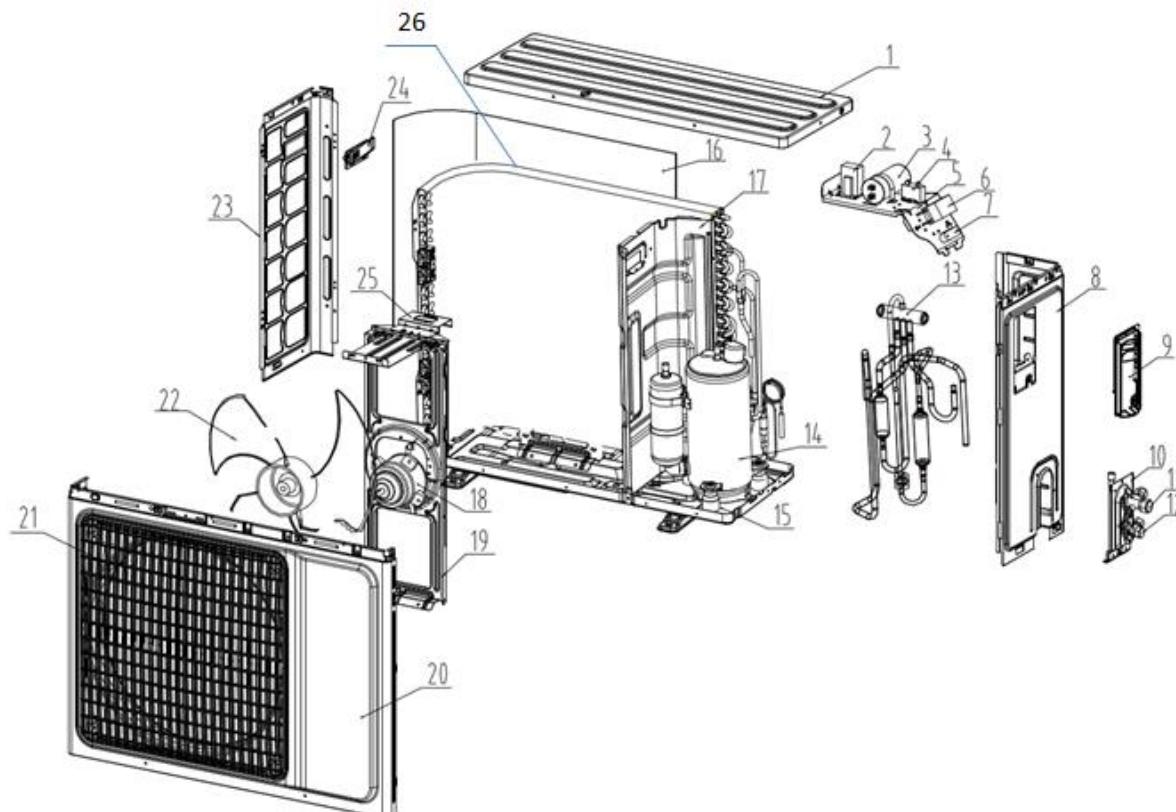
### 4.2 CO-E 18HNX



| N0. | Materiel No.   | Chinese name | Part Name                     | Quantity |
|-----|----------------|--------------|-------------------------------|----------|
| 1   | 16421005000607 | 顶盖板          | Top cover board               | 1        |
| 2   | 16434004000123 | 闭孔橡塑保温棉板     | PU sponge                     | 2        |
| 3   | 16434001000046 | PE 保温棉板      | PE sponge                     | 1        |
| 4   | 16434001000378 | PE 保温棉板      | PE sponge                     | 1        |
| 5   | 16325004001699 | 四通阀组件        | Four-way valve assembly       | 1        |
| 6   | 11320068000009 | 电器盖板         | Cover for electric components | 1        |
| 7   | 16441004000046 | 截止阀          | Stop valve                    | 1        |
| 8   | 16421014000090 | 阀板           | Stop valve board              | 1        |
| 9   | 16441004000077 | 截止阀          | Stop valve                    | 1        |
| 10  | 16421001000728 | 右侧板          | Right-hand board              | 1        |
| 11  | 11223015000163 | 压缩机          | Compressor                    | 1        |
| 12  | 16321004000207 | 底盘组件         | Chassis assembly              | 1        |
| 13  | 11327002000029 | 压缩机保温棉       | Compressor sound absorber     | 1        |
| 14  | 11321025000049 | 隔风立板         | Wind-defending vertical board | 1        |

**R410A T1 ON/OFF LCAC B7 Series**

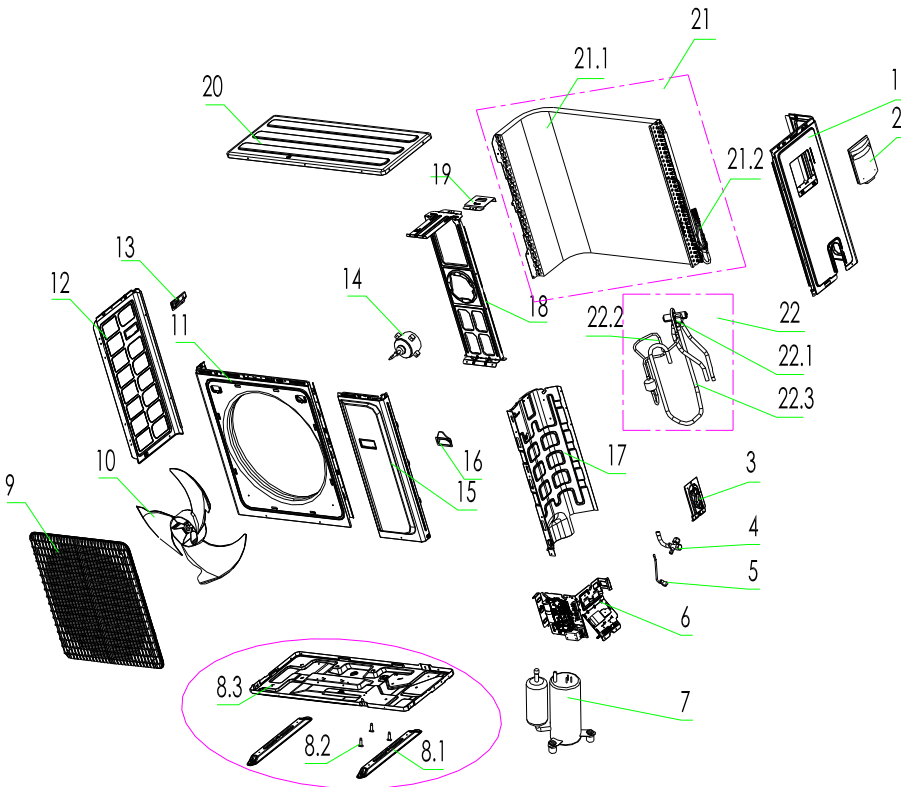
|    |                |         |                           |   |
|----|----------------|---------|---------------------------|---|
| 15 | 16434001000330 | PE 保温棉板 | PE sponge                 | 1 |
| 16 | 11321002000031 | 电机架     | Motor bracket assembly    | 1 |
| 17 | 16434003000048 | 聚氨酯消音绵板 | PU sponge                 | 1 |
| 18 | 16421004000350 | 面板      | Panel                     | 1 |
| 19 | 11320026000039 | 面板网罩    | Net for panel             | 1 |
| 20 | 11320009000063 | 轴流风叶    | Axial-flow wind leaves    | 1 |
| 21 | 11230004000405 | 电机      | Outdoor Motor             | 1 |
| 22 | 16421001000729 | 左侧板     | Left-hand board           | 1 |
| 23 | 16324004000460 | 冷凝器总成   | Condenser assembly        | 1 |
| 24 | 16434001000332 | PE 保温棉板 | PE sponge                 | 1 |
| 25 | 16434003000116 | 聚氨酯消音棉板 | PU sponge                 | 1 |
| 26 | 11321029000007 | 冷凝器挂耳   | condenser hanging earing  | 1 |
| 27 | 16330004000039 | 电气总成    | Electric bracket assembly | 1 |



| No. | Part No.       | Chinese Name         | Part Name               | Quantity |
|-----|----------------|----------------------|-------------------------|----------|
| 1   | 11321009000052 | 顶盖板                  | Top Cover               | 1        |
| 2   | 11330015000014 | 交流接触器                | Relay contact           | 1        |
| 3   | 11330009000088 | 压缩机电容                | Capacitor               | 1        |
| 4   | 11330010000105 | 风机电容                 | Capacitor(Motor)        | 1        |
| 5   | 16330004000040 | 电气总成                 | Control assembly        | 1        |
| 6   | 16427001000081 | 端子板                  | Terminal block          | 1        |
| 7   | 11220544000008 | 双联压线座                | Clamp                   | 1        |
| 8   | 11321157000002 | 右侧板                  | Right panel             | 1        |
| 9   | 11320068000009 | 电器盖板                 | E-parts cover           | 1        |
| 10  | 11321031000027 | 阀板                   | Valve board             | 1        |
| 11  | 11225517000011 | 截止阀 5/8in            | Stop Valve(5/8)         | 1        |
| 12  | 16441004000080 | 截止阀 3/8in            | Stop Valve(3/8)         | 1        |
| 13  | 11225516001165 | 四通阀管路组件              | Four-way valve assembly | 1        |
| 14  | 11223003000396 | 压缩机 (美芝 KSG240V1VMP) | Compressorassembly      | 1        |
| 15  | 11221502000529 | 底盘组件                 | Chassis                 | 1        |
| 17  | 11321025000063 | 隔风立板                 | Barrier                 | 1        |
| 18  | 11230004000385 | R 外电机 YDK69-6A       | ODU fan motor           | 1        |
| 19  | 11321002000036 | 电机架                  | Motor Bracket           | 1        |
| 20  | 11321005000092 | 面板                   | Front Panel (Big)       | 1        |
| 21  | 11320026000052 | 方形面板塑料网罩             | Plastic Grille          | 1        |

**R410A T1 ON/OFF LCAC B7 Series**

|    |                |                          |                     |   |
|----|----------------|--------------------------|---------------------|---|
| 22 | 11320009000064 | R 轴流风叶新 2P 470*140AS 全新料 | Axial-flow Fan      | 1 |
| 23 | 11321156000002 | 左侧板                      | Left side panel     | 1 |
| 24 | 11320097000011 | 左挖手                      | Left hanger         | 1 |
| 25 | 11321029000009 | 冷凝器挂耳                    | Condenser connector | 1 |
| 26 | 16324020000102 | 冷凝器总成                    | Condenser assembly  | 1 |

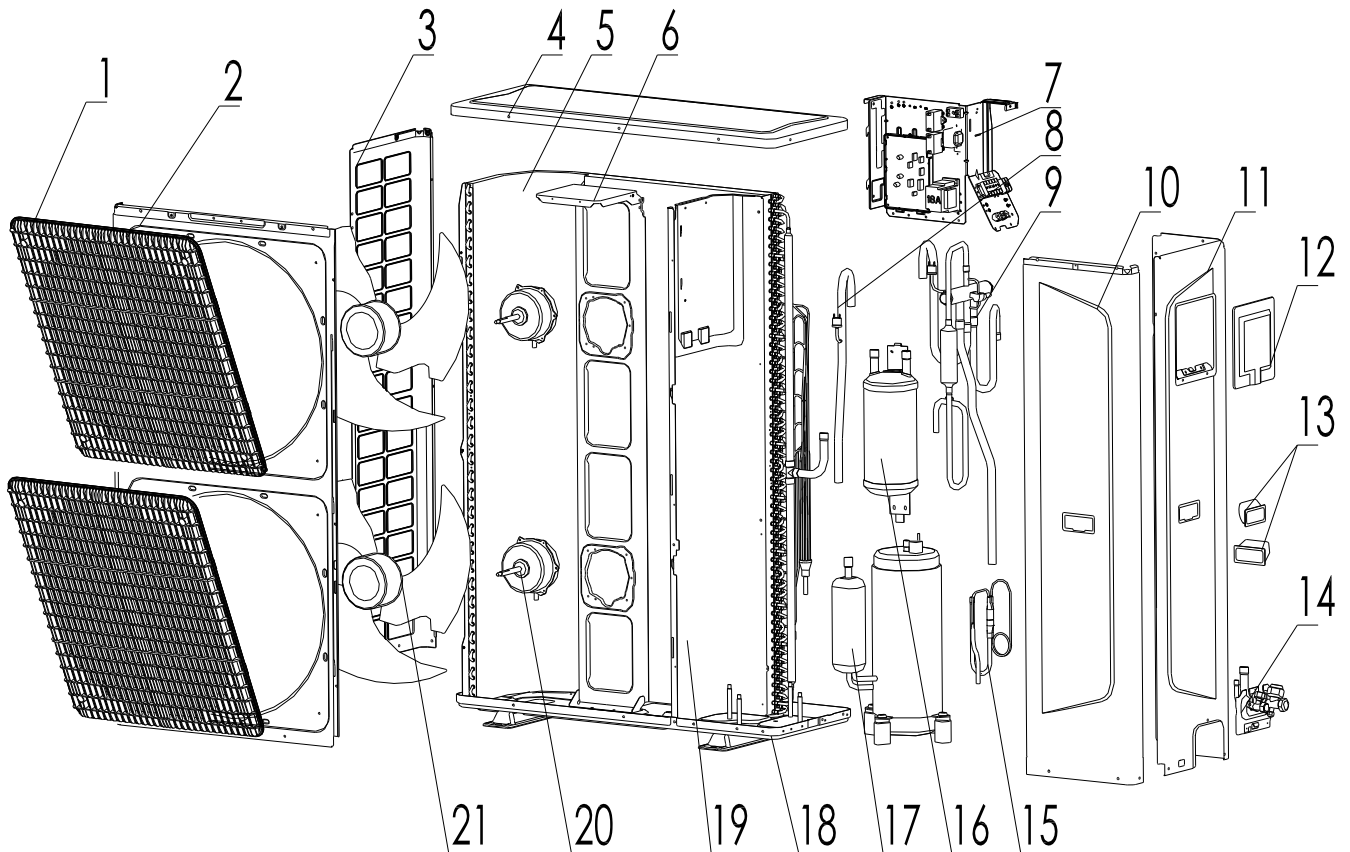
**4.3 CO-E 36HNX**

| 序号  | 物料编码           | 物料描述              | 数量 |
|-----|----------------|-------------------|----|
| 1   | 11321157000027 | 右侧板               | 1  |
| 2   | 11320068000006 | 电器盖板              | 1  |
| 3   | 16421014000090 | 阀板                | 1  |
| 4   | 11225517000037 | A 截止阀组件 Dg13      | 1  |
| 5   | 16441004000080 | 截止阀 3/8in 针阀      | 1  |
| 6   | 11321015000069 | 电器架               | 1  |
| 7   | 16438004000133 | 压缩机 QXFS-F41sN050 | 1  |
| 8   | 16321004000216 | 底盘组               | 1  |
| 8.1 | 11321023000018 | 底脚                | 2  |
| 8.2 | 14731005000044 | 泵脚螺栓              | 3  |
| 8.3 | 11321014000143 | 底盘                | 1  |
| 9   | 11320026000057 | 面板塑料网罩            | 1  |
| 10  | 11320009000061 | R 轴流风叶            | 1  |
| 11  | 11321005000099 | 大面板               | 1  |
| 12  | 11321156000010 | 左侧板               | 1  |

#### R410A T1 ON/OFF LCAC B7 Series

|      |                |       |   |
|------|----------------|-------|---|
| 13   | 11320097000010 | 挖手    | 1 |
| 14   | 11230004000046 | R 外电机 | 1 |
| 15   | 11321005000100 | 小面板   | 1 |
| 16   | 11320097000010 | 左侧板挖手 | 1 |
| 17   | 11321025000072 | 隔风立板  | 1 |
| 18   | 11321002000038 | 电机架   | 1 |
| 19   | 11321029000038 | 冷凝器挂耳 | 1 |
| 20   | 11321009000054 | 顶盖板   | 1 |
| 21   | 16324020000101 | 冷凝器总成 | 1 |
| 21.1 | 16324004000603 | 冷凝器组件 | 1 |
| 21.2 | 16325019000083 | 出液管组件 | 1 |
| 22   | 16325020000084 | 四通阀组件 | 1 |
| 22.1 | 16426088000003 | 四通换向阀 | 1 |
| 22.2 | 16325017000080 | 排气管组件 | 1 |

#### 4.4 CO-E 60HNX

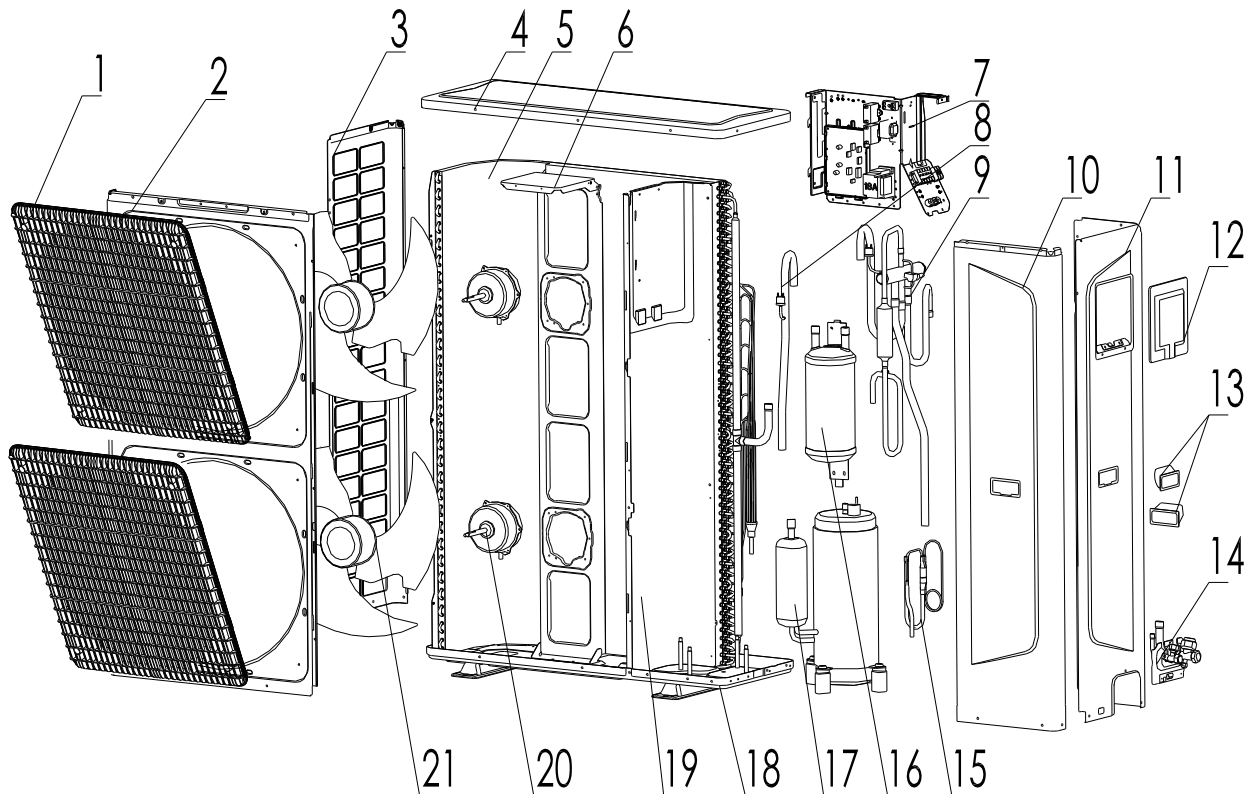


| No. | Chinese Name | Part Name       | Part Code      | Qty |
|-----|--------------|-----------------|----------------|-----|
| 1   | 面板塑料网罩       | Screen          | 11320026000049 | 2   |
| 2   | 大面板          | Big Board       | 16421004000360 | 1   |
| 3   | 左侧板          | Left-side plate | 16421004000362 | 1   |
| 4   | 顶盖板          | Lamina tecti    | 16421004000364 | 1   |
| 5   | 冷凝器总成        | Condenser assy  | 16324020000098 | 1   |

**R410A T1 ON/OFF LCAC B7 Series**

|    |          |                            |                |   |
|----|----------|----------------------------|----------------|---|
| 6  | 双排冷凝器卡板  | Condenser snap-gauge       | 11321065000005 | 1 |
| 7  | CJ 控制板   | Control Board              | 11222542000085 | 1 |
| 8  | 回气管组件    | muffler assembly           | 16325018000055 | 1 |
| 9  | 四通阀管路组件  | Four-way valve assembly    | 16325020000082 | 1 |
| 10 | 左侧板      | Left-side plate            | 16421004000362 | 1 |
| 11 | 右侧板      | Right-side plate           | 16421001000747 | 1 |
| 12 | 电控盒      | Control Box                | 16420016000027 | 1 |
| 13 | 小挖手      | Dig hand                   | 11320097000003 | 2 |
| 14 | 阀板       | Valve plate                | 16421014000099 | 1 |
| 15 | 节流组件     | orifice union              | 16325021000064 | 1 |
| 16 | 气液分离器    | gas-liquid separator       | 16442023000048 | 1 |
| 17 | 压缩机及配件   | Compressor and accessories | 16438004000131 | 1 |
| 18 | 底盘组件     | chassis assembly           | 16421028000197 | 1 |
| 19 | 电机支架(组件) | Motor frame                | 16321002000155 | 1 |
| 20 | 室外电机     | Motor                      | 16430001000640 | 2 |
| 21 | R 轴流风叶   | Axial-flow fan             | 11320009000065 | 2 |

**4.5 CO-E 48HNX**



| 序号 | 物料编码           | 物料描述   | 数量 |
|----|----------------|--------|----|
| 1  | 11320026000049 | 面板塑料网罩 | 2  |

**R410A T1 ON/OFF LCAC B7 Series**

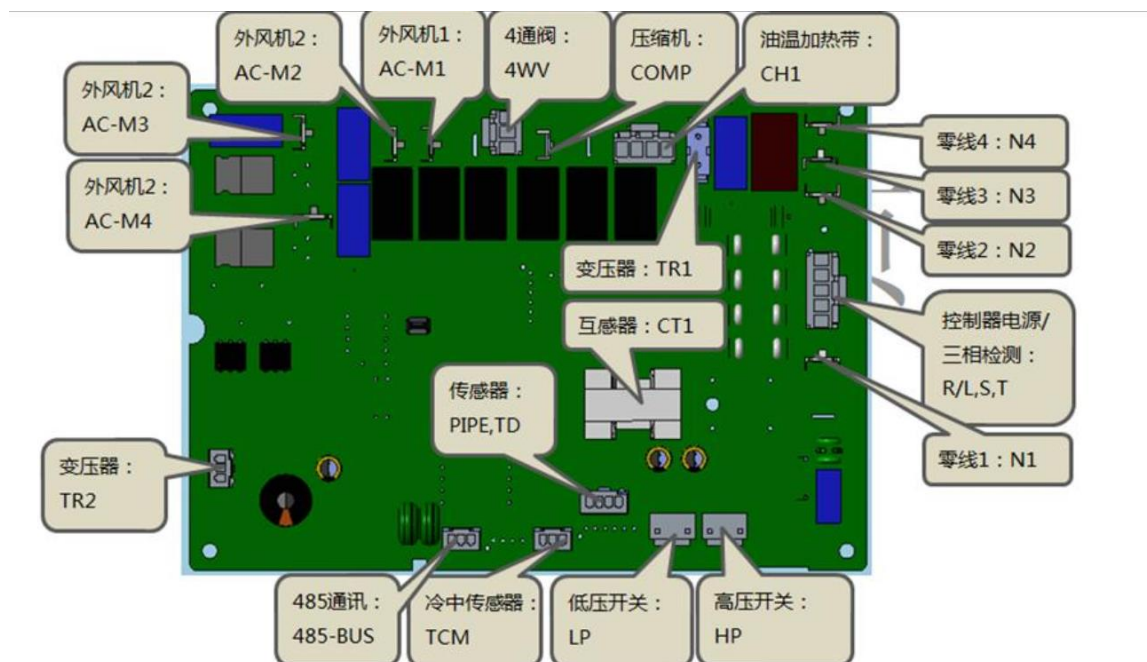
|    |                |          |   |
|----|----------------|----------|---|
| 2  | 16421004000360 | 大面板      | 1 |
| 3  | 16421004000362 | 左侧板      | 1 |
| 4  | 16421004000364 | 顶盖板      | 1 |
| 5  | 16324020000099 | 冷凝器总成    | 1 |
| 6  | 11321065000005 | 双排冷凝器卡板  | 1 |
| 7  | 11222542000085 | CJ 控制板   | 1 |
| 8  | 16325018000069 | 回气管组件    | 1 |
| 9  | 16325020000090 | 四通阀管路组件  | 1 |
| 10 | 16421004000362 | 左侧板      | 1 |
| 11 | 16421001000747 | 右侧板      | 1 |
| 12 | 16421038000342 | 电控盒      | 1 |
| 13 | 11320097000003 | 小挖手      | 2 |
| 14 | 16421014000099 | 阀板       | 1 |
| 15 | 16325021000069 | 节流组件     | 1 |
| 16 | 16426074000003 | 气液分离器    | 1 |
| 17 | 16438004000130 | 压缩机及附件   | 1 |
| 18 | 16321018000071 | 底盘组件     | 1 |
| 19 | 16321002000155 | 电机支架(组件) | 1 |
| 20 | 16430001000640 | 室外电机     | 2 |
| 21 | 11320009000065 | R 轴流风叶   | 2 |

## Part10 PCB Instruction

### 1. Outdoor Unit PCB

#### 1.1 CO-E 36HNX, CO-E 48HNX, CO-E 60HNX

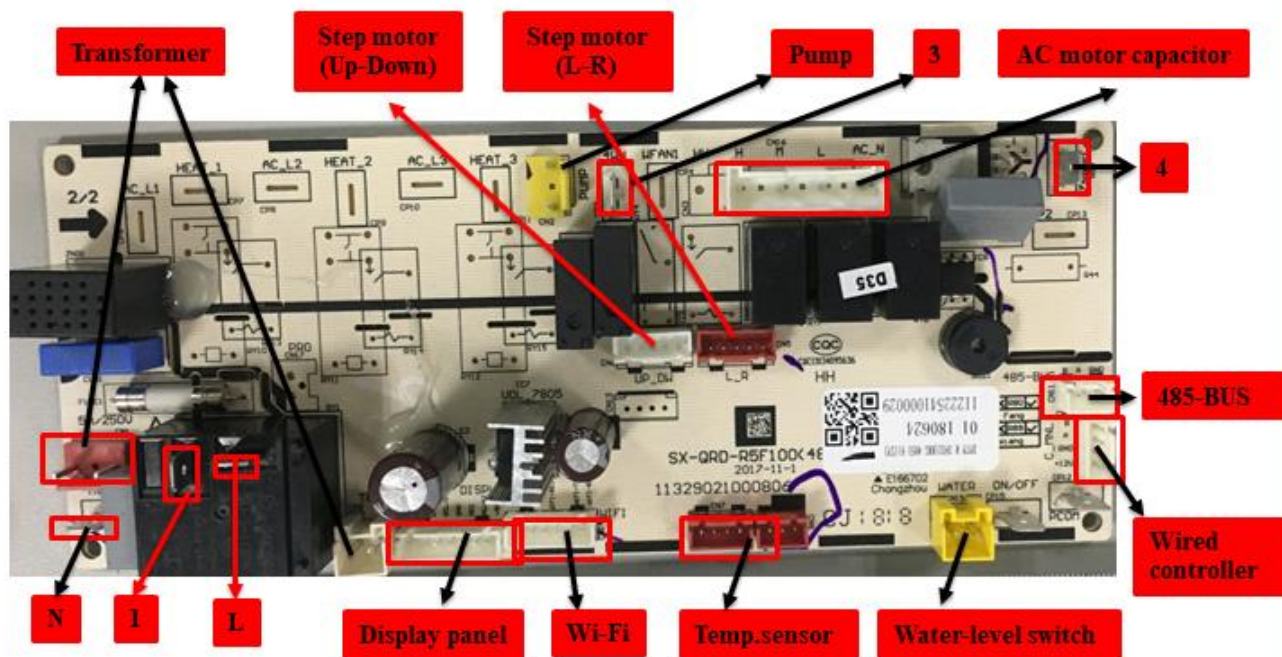
11222542000142



## 2. Indoor Unit PCB

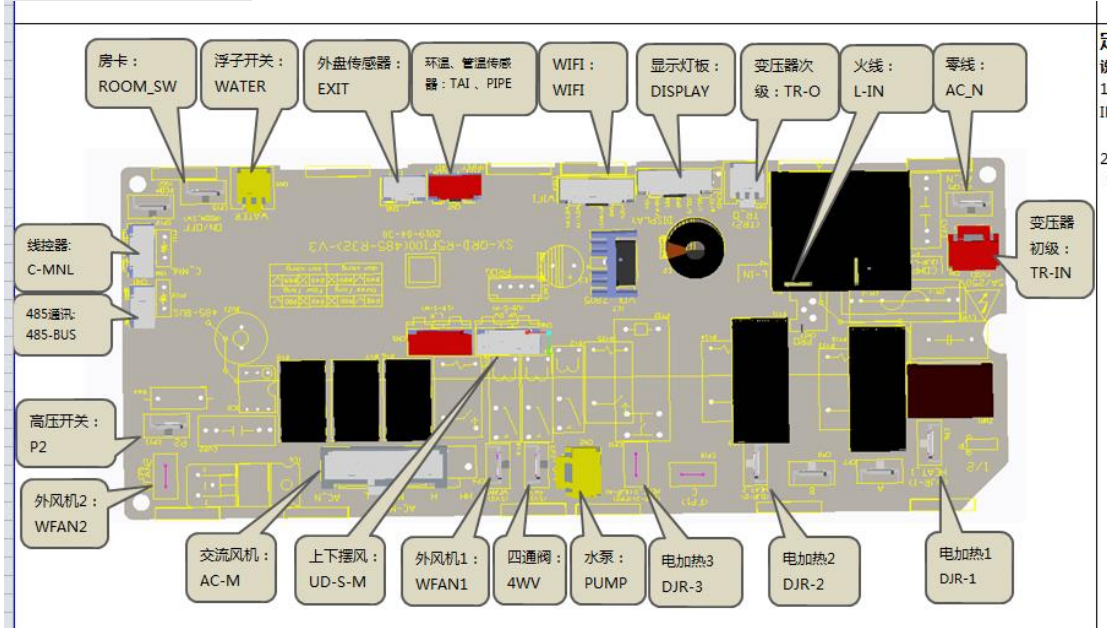
### 2.1 12K(Cassette),18K/24K/36K(1Ph~) Cassette,Ceiling Floor,Duct

11222541000029



### 2.2 36K,48K,60K(3Ph~) Cassette,Ceiling Floor,Duct

11222541000072



# Part11 Trouble Shooting

## 1. Failure code display

When AC has failure, indoor display board and wire controller will show error codes

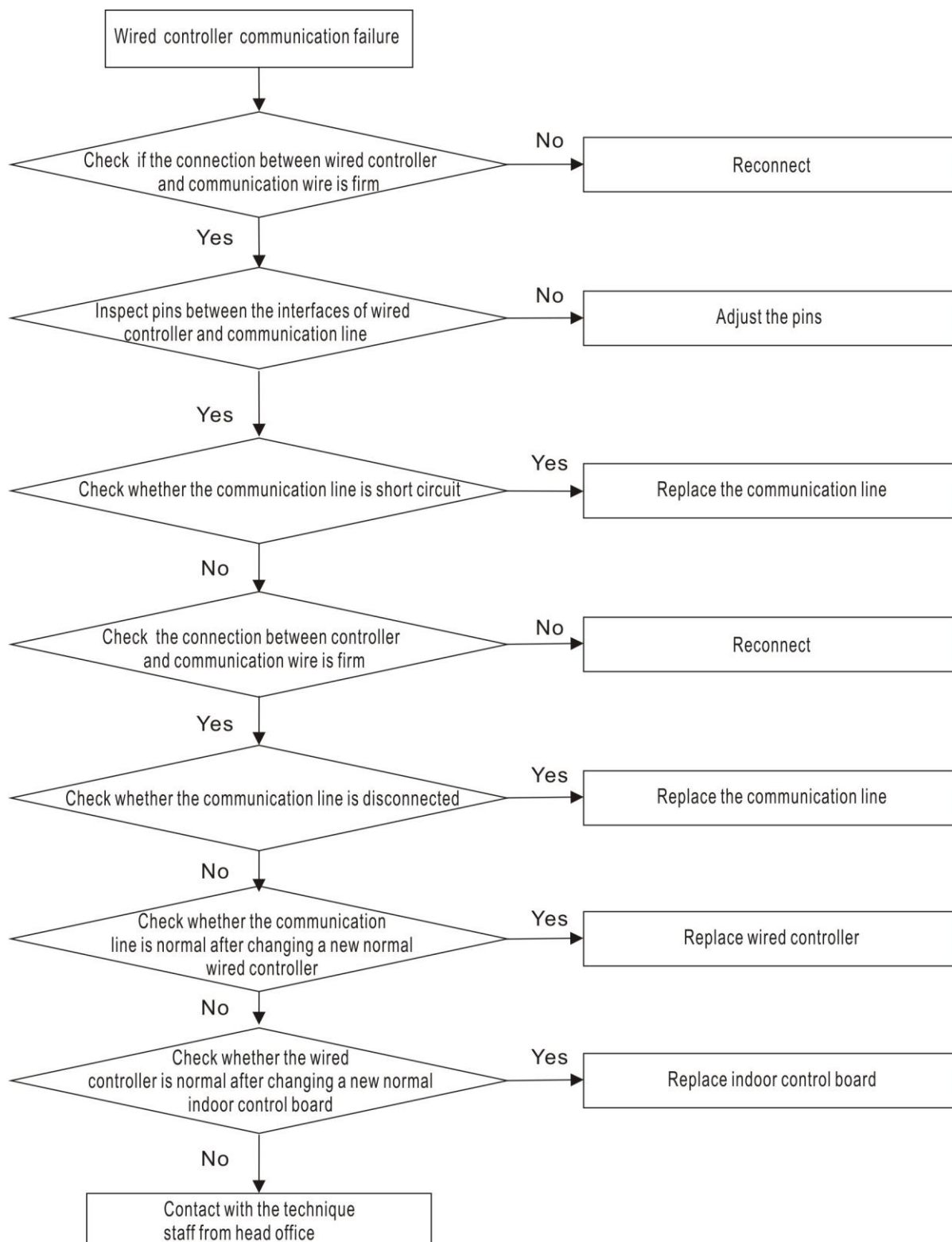
| Error code | Error code definition                                       | Recovery or not | Problem possible reasons           |
|------------|-------------------------------------------------------------|-----------------|------------------------------------|
| E0         | Lack of refrigerant                                         | No              | Compressor internal protection     |
|            |                                                             |                 | System is short of refrigerant     |
|            |                                                             |                 | Reversing failure of 4 way valve   |
| E1         | TA (Indoor temperature sensor) is abnormal                  | Yes             | Sensor damage                      |
|            |                                                             |                 | Poor contact of sensor             |
| E2         | TW(Defrosting temperature sensor) is abnormal               | Yes             | Sensor damage                      |
|            |                                                             |                 | Poor contact of sensor             |
| E3         | TE(Indoor coil sensor) is abnormal                          | Yes             | Sensor damage                      |
|            |                                                             |                 | Poor contact of sensor             |
| E4         | Drainage system failure                                     | Yes             | Damage of water pump               |
|            |                                                             |                 | Damage of water level switch       |
|            |                                                             |                 | Water level switch is locked       |
| E5         | Communication failure of wired controller                   | Yes             | Communication wire sequence error  |
|            |                                                             |                 | Poor contact of communication wire |
| E6         | Outdoor unit protection(phase sequence)                     | No              | The power cable phase is missing   |
|            |                                                             |                 | Power cable phase sequence error   |
| E7         | TL(Outdoor condensing temperature sensor) is abnormal       | Yes             | Sensor damage                      |
|            |                                                             |                 | Poor contact of sensor             |
| E8         | TP(Discharge temperature sensor) is abnormal                | Yes             | Sensor damage                      |
|            |                                                             |                 | Poor contact of sensor             |
| E9         | Low pressure protection                                     | Yes             | System is short of refrigerant     |
| EA         | Outdoor unit protection (Discharge temperature is too high) | No              | External protection device action  |
| F1         | Communication failure between indoor unit and outdoor unit  | Yes             | Communication wire sequence error  |

**R410A T1 ON/OFF LCAC B7 Series**

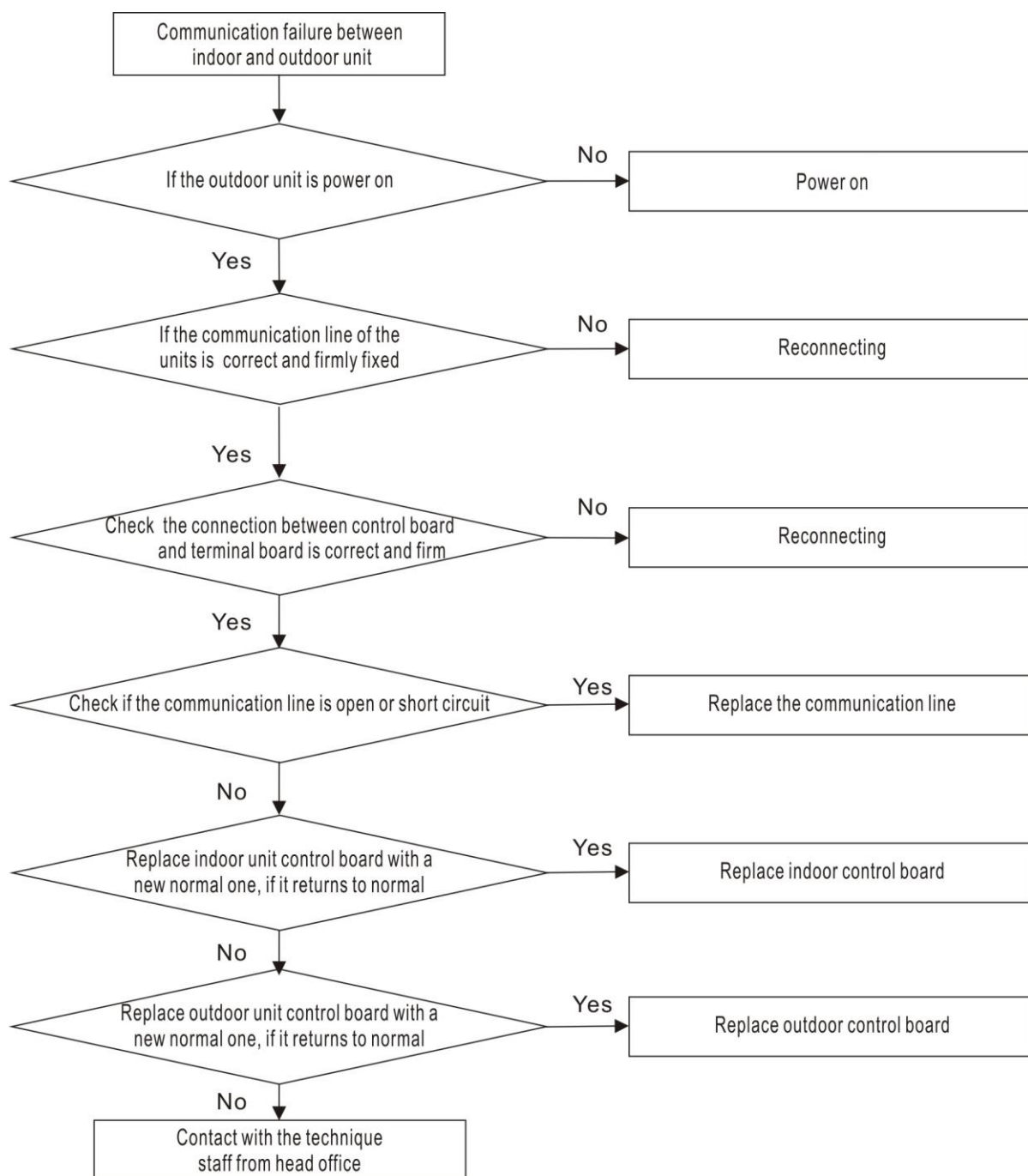
|    |                                        |     |                                               |
|----|----------------------------------------|-----|-----------------------------------------------|
|    |                                        |     | Poor contact of communication wire            |
| F2 | Exhaust overtemperature protection     | Yes | System is blocked or fault of the outdoor fan |
| F3 | Outdoor fan is abnormal                | Yes | Poor contact of outdoor motor                 |
|    |                                        |     | Motor is broken                               |
| F4 | Indoor fan is abnormal                 | Yes | Poor contact of indoor motor                  |
|    |                                        |     | Motor is broken                               |
| F5 | Outdoor temperature sensor is abnormal | Yes | Sensor damage                                 |
|    |                                        |     | Poor contact of sensor                        |
| F6 | Compressor overcurrent protection      | No  | Compressor is blocked                         |
|    |                                        |     | Low voltage                                   |
| F7 | Dial switch is abnormal                | Yes | Wrong position of dial switch                 |
| FB | Indoor power protection                | Yes | Wrong wiring                                  |
| F9 | High pressure protection               | Yes | Condenser is blocked                          |
|    |                                        |     | Abnormal operation of the outdoor fan         |
|    |                                        |     | System pipe is blocked                        |

## 2. Failure analysis

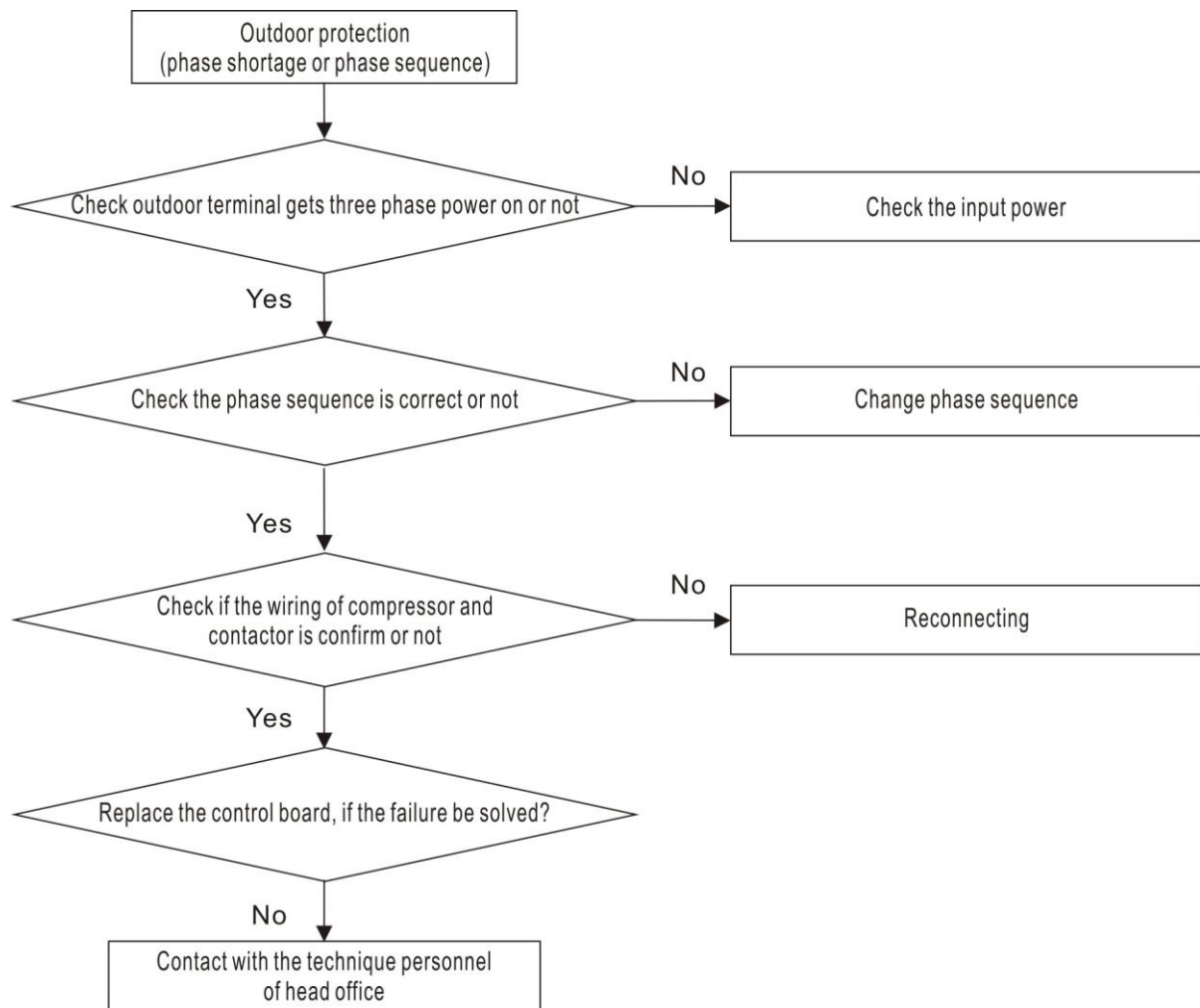
### 2.1 【H2】 Wired controller communication failure



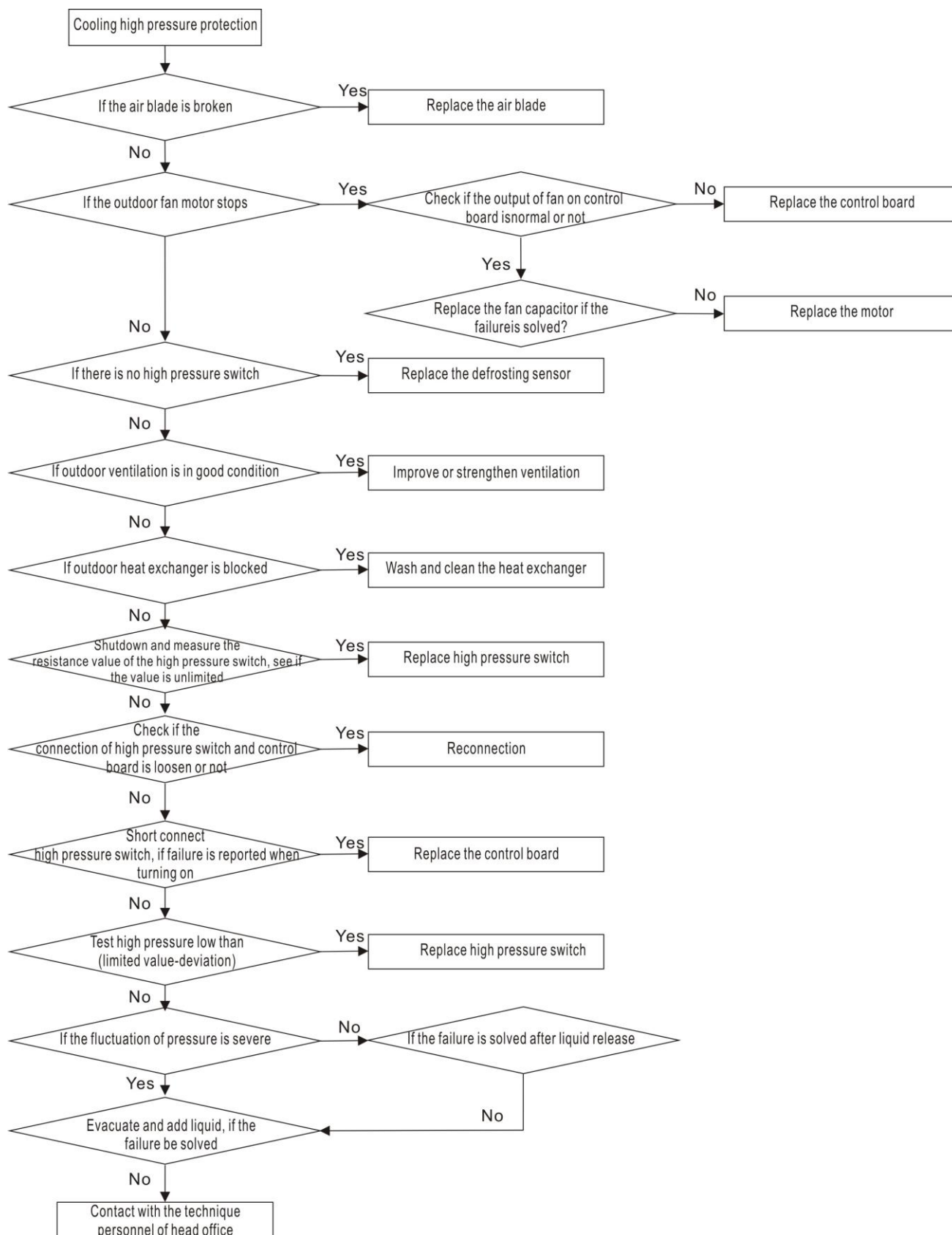
**2.2 【E5/5E】 Communication failure between indoor and outdoor unit**



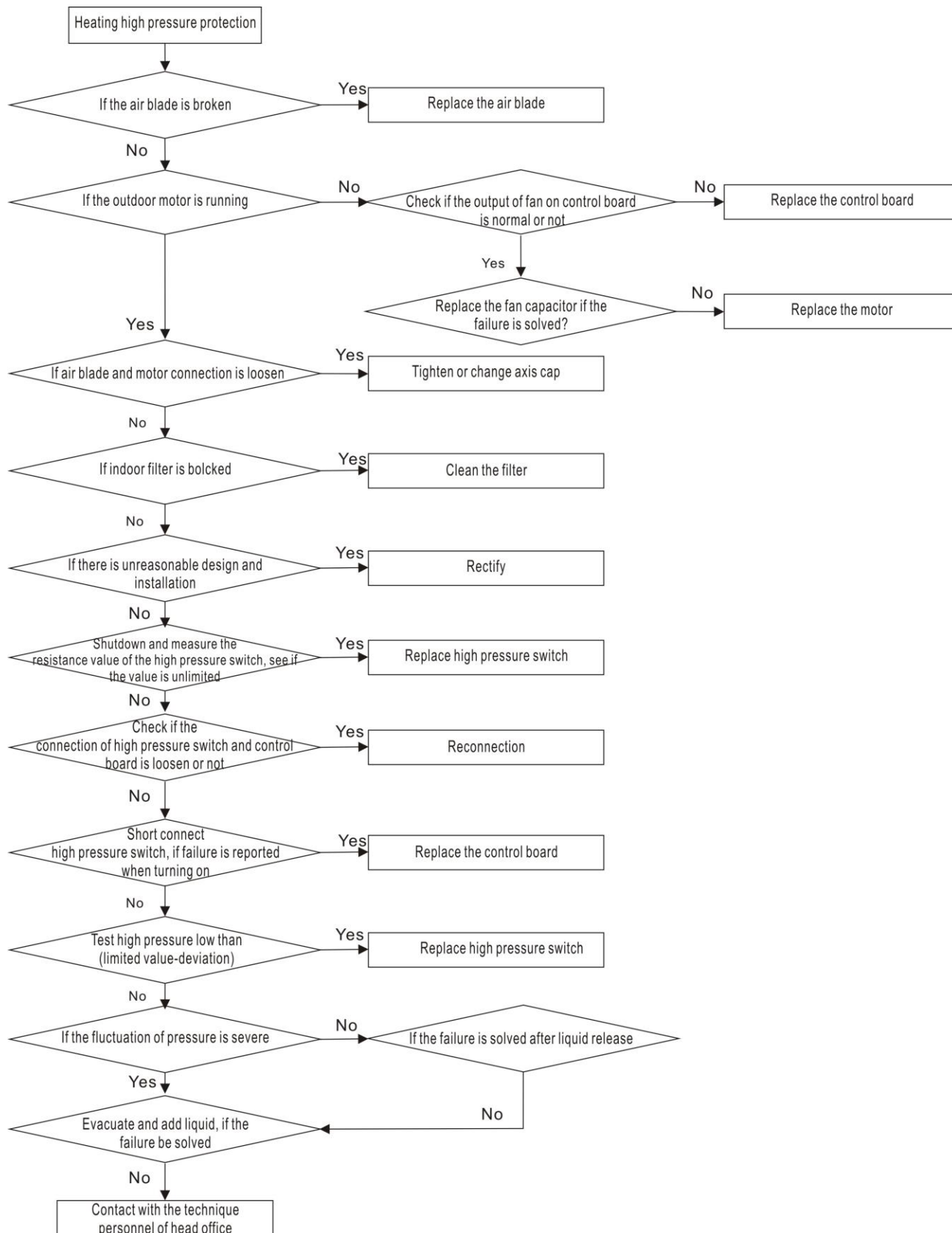
**Outdoor protection(phase sequence)**



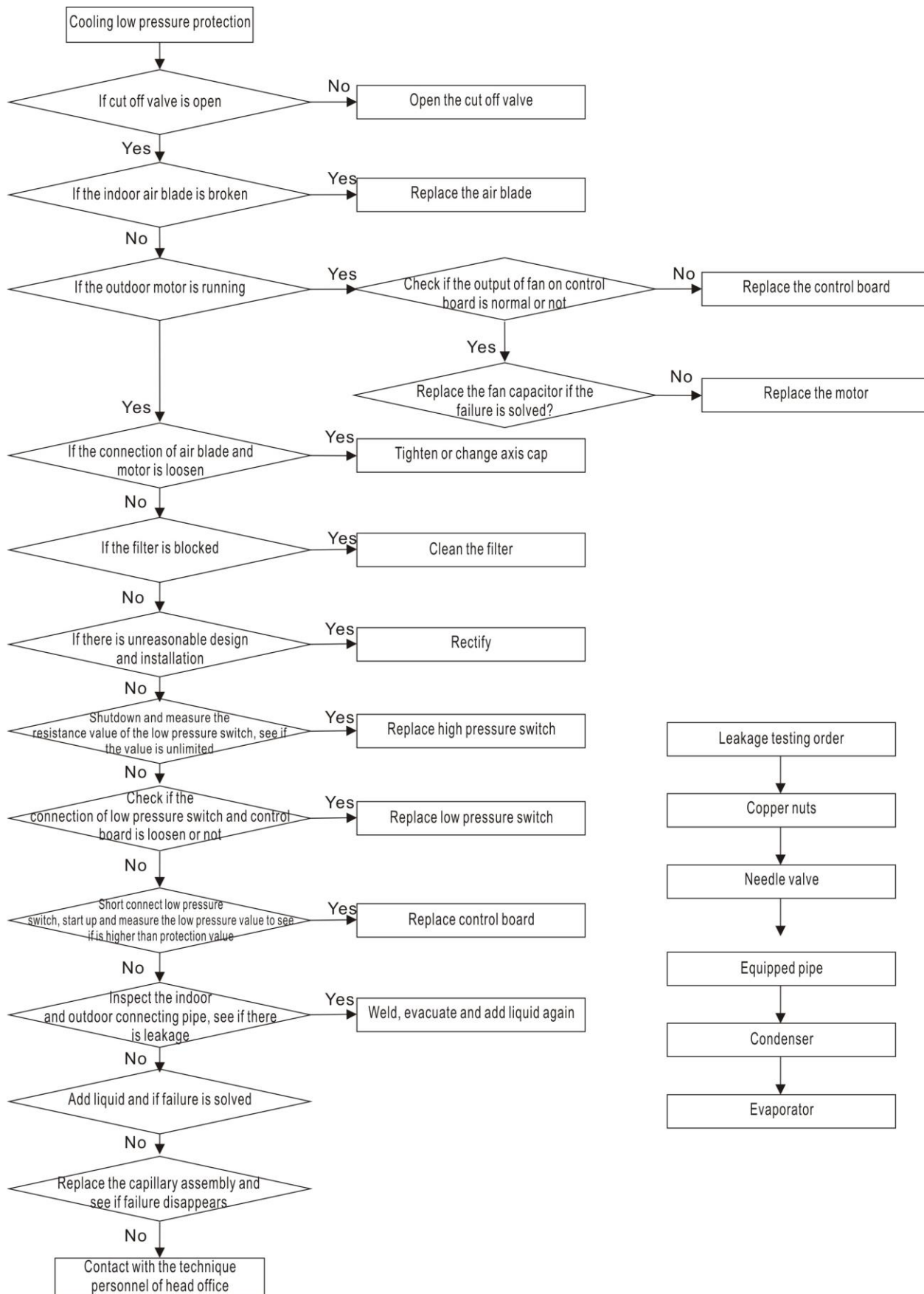
## 2.3 【P2】 Cooling high pressure protection



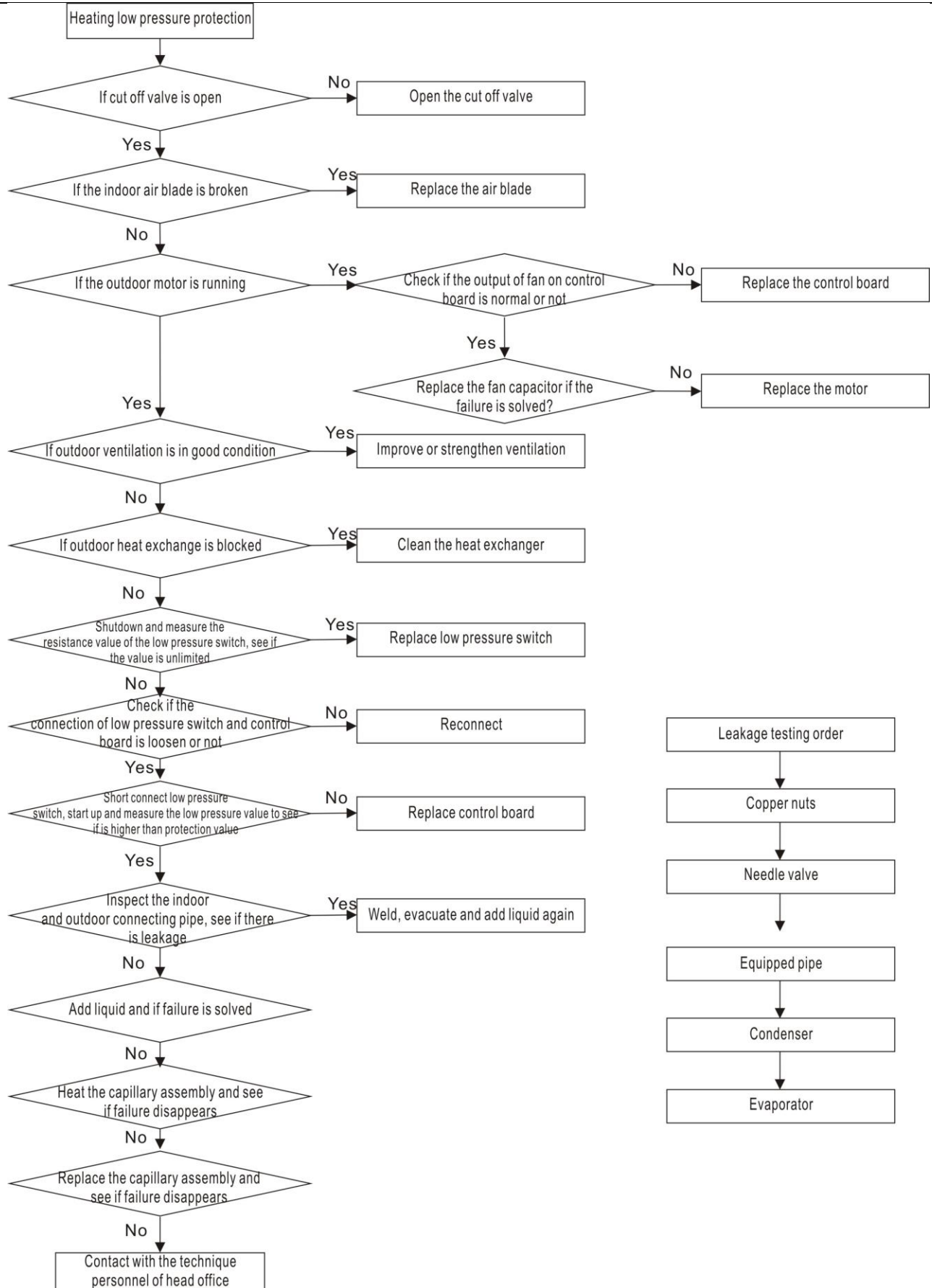
**【P2】 Heating high pressure protection**



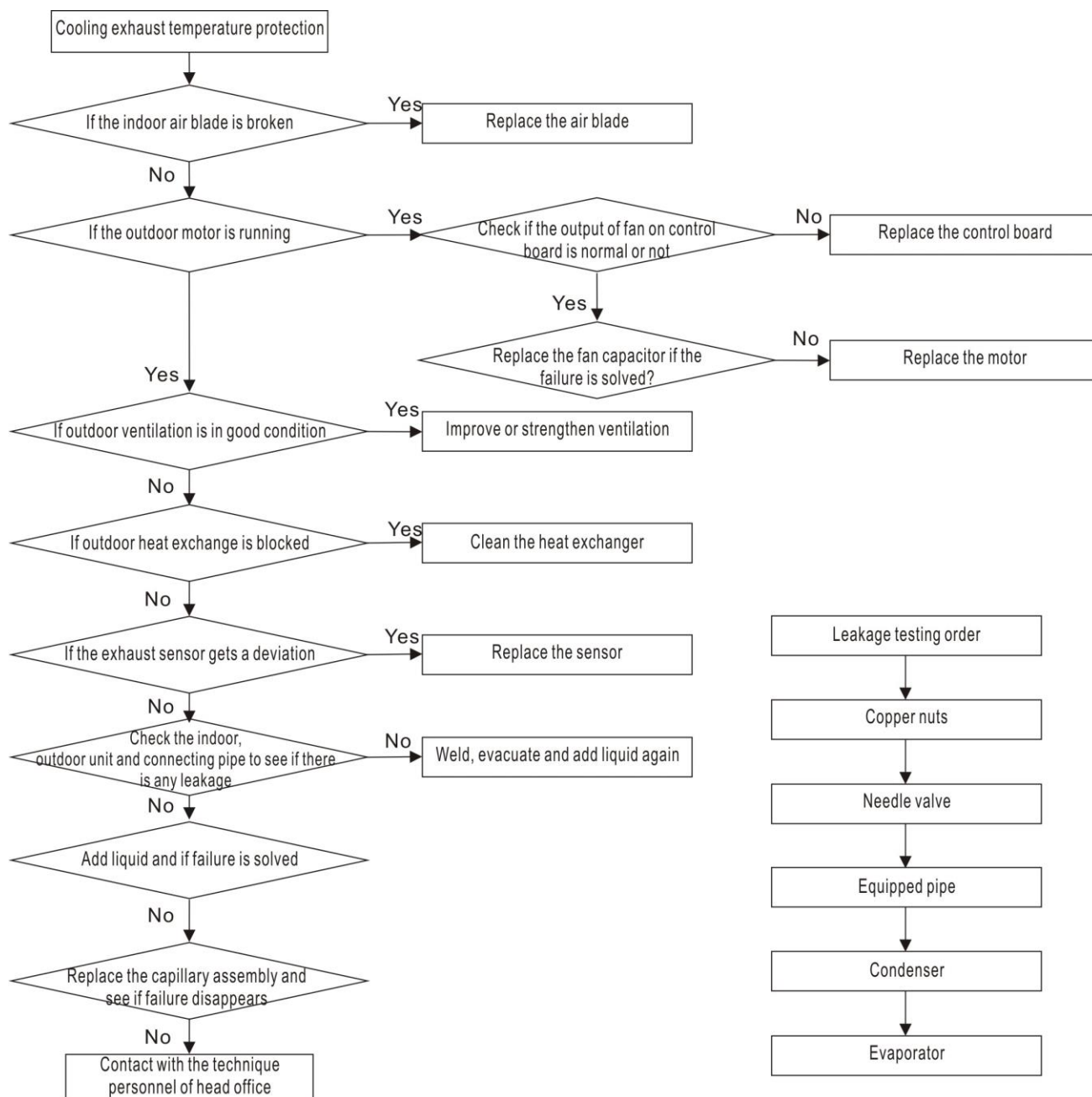
## 2.4 【H6】 Cooling low pressure protection



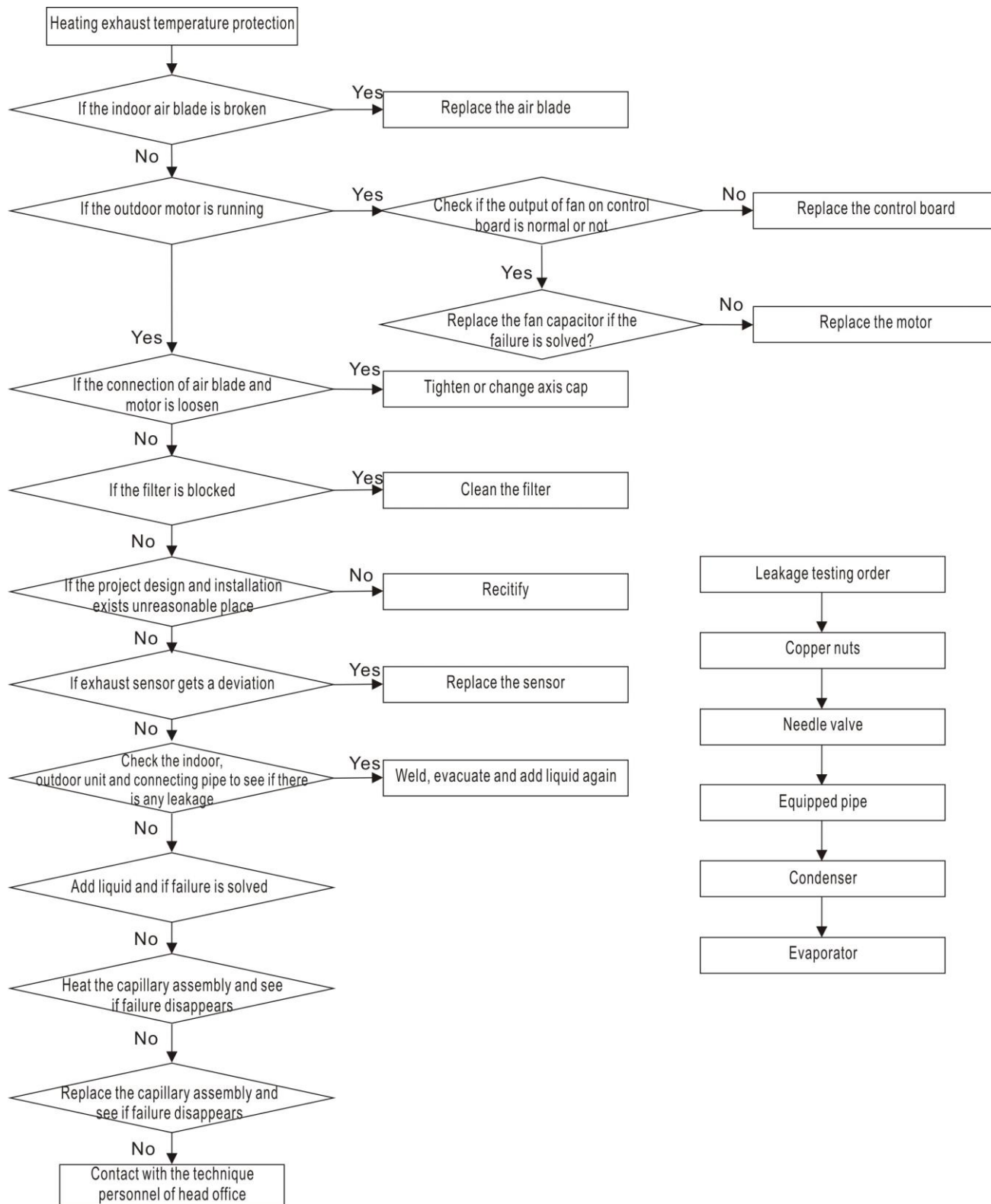
## 【H6】 Heating low pressure protection



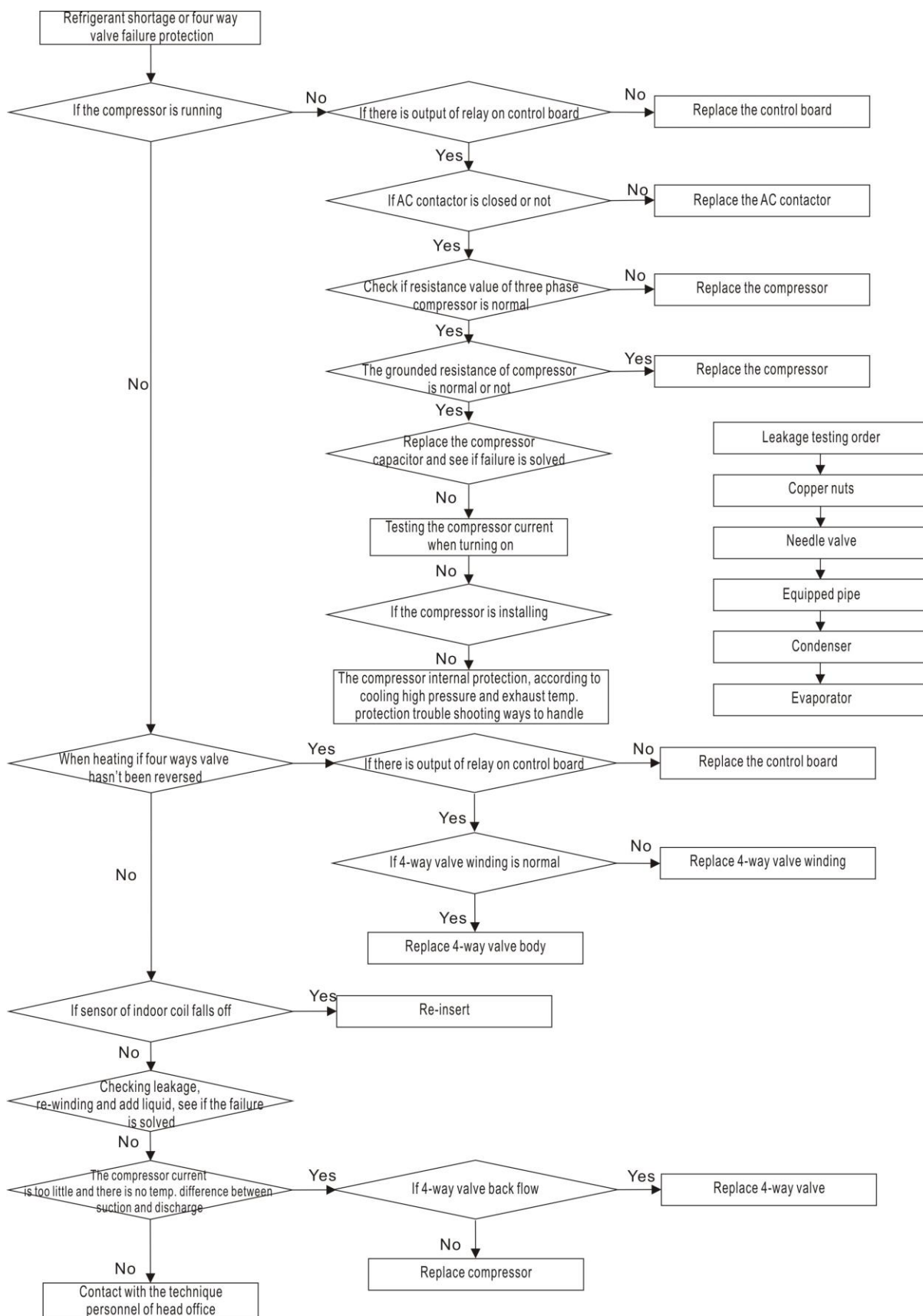
## 2.5 【P5/J5】 Cooling exhaust temperature protection



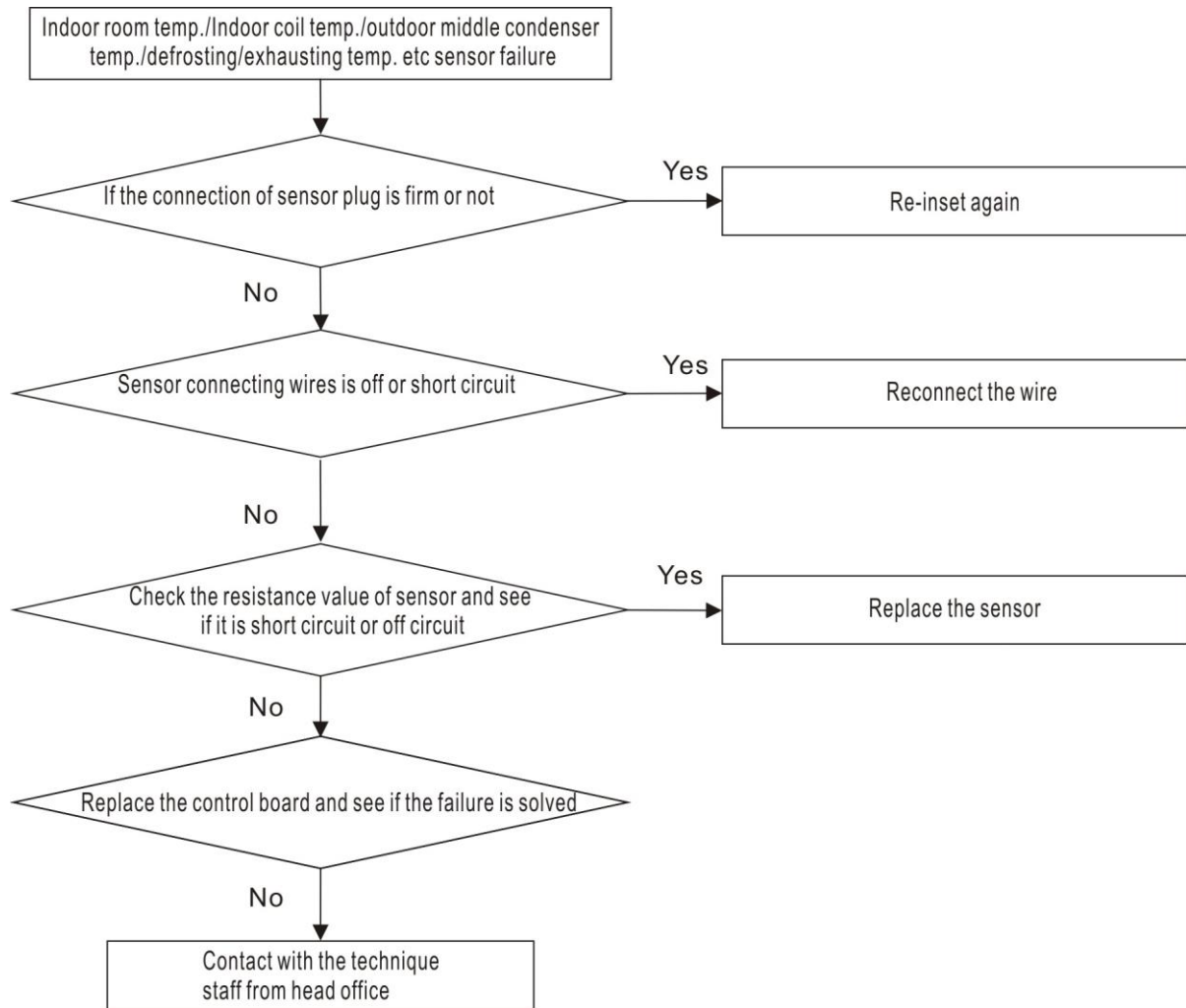
# 【P5/J5】 Heating exhaust temperature protection



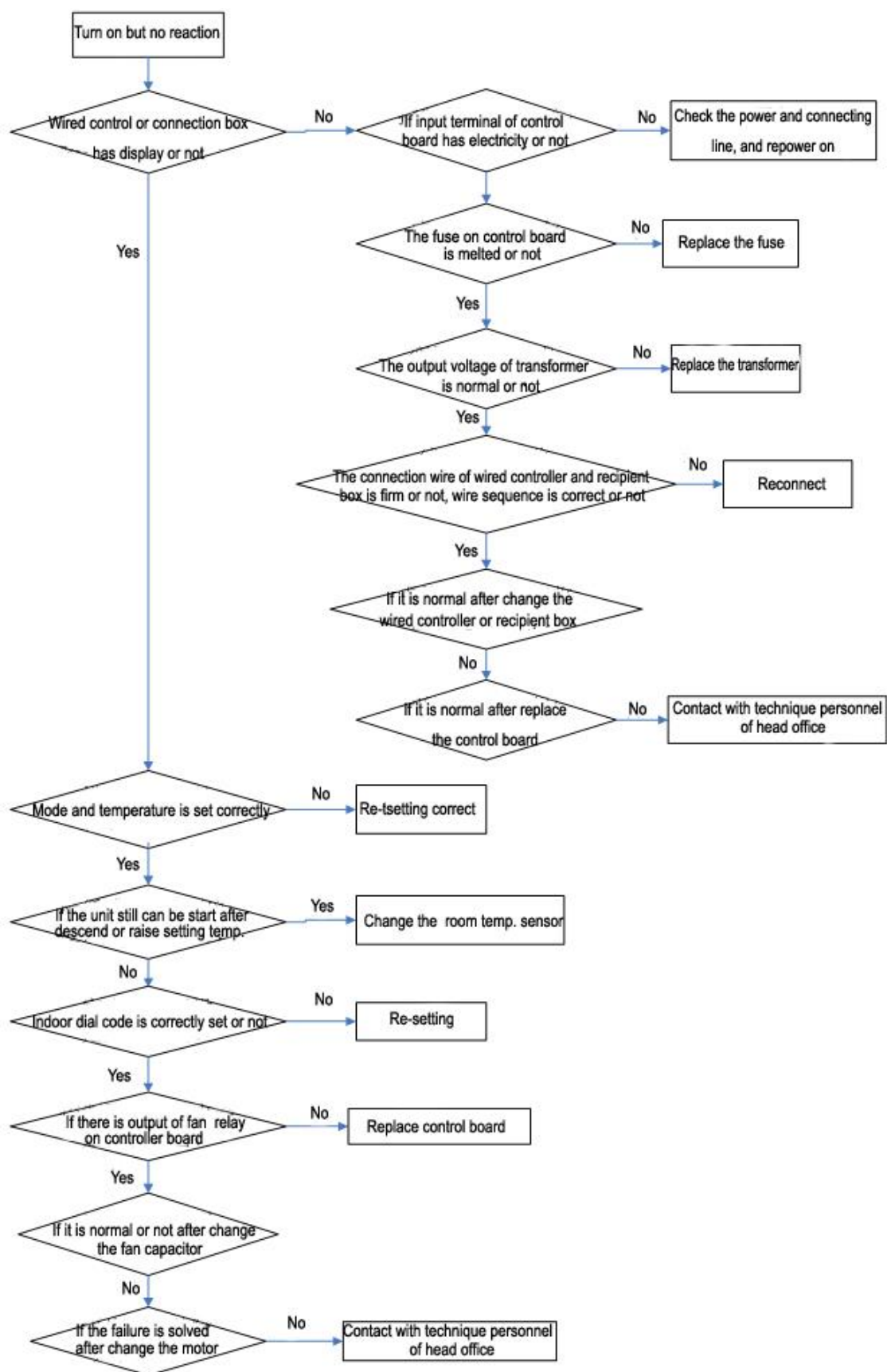
## 2.6 【H8】 Refrigerant shortage or four way valve failure protection



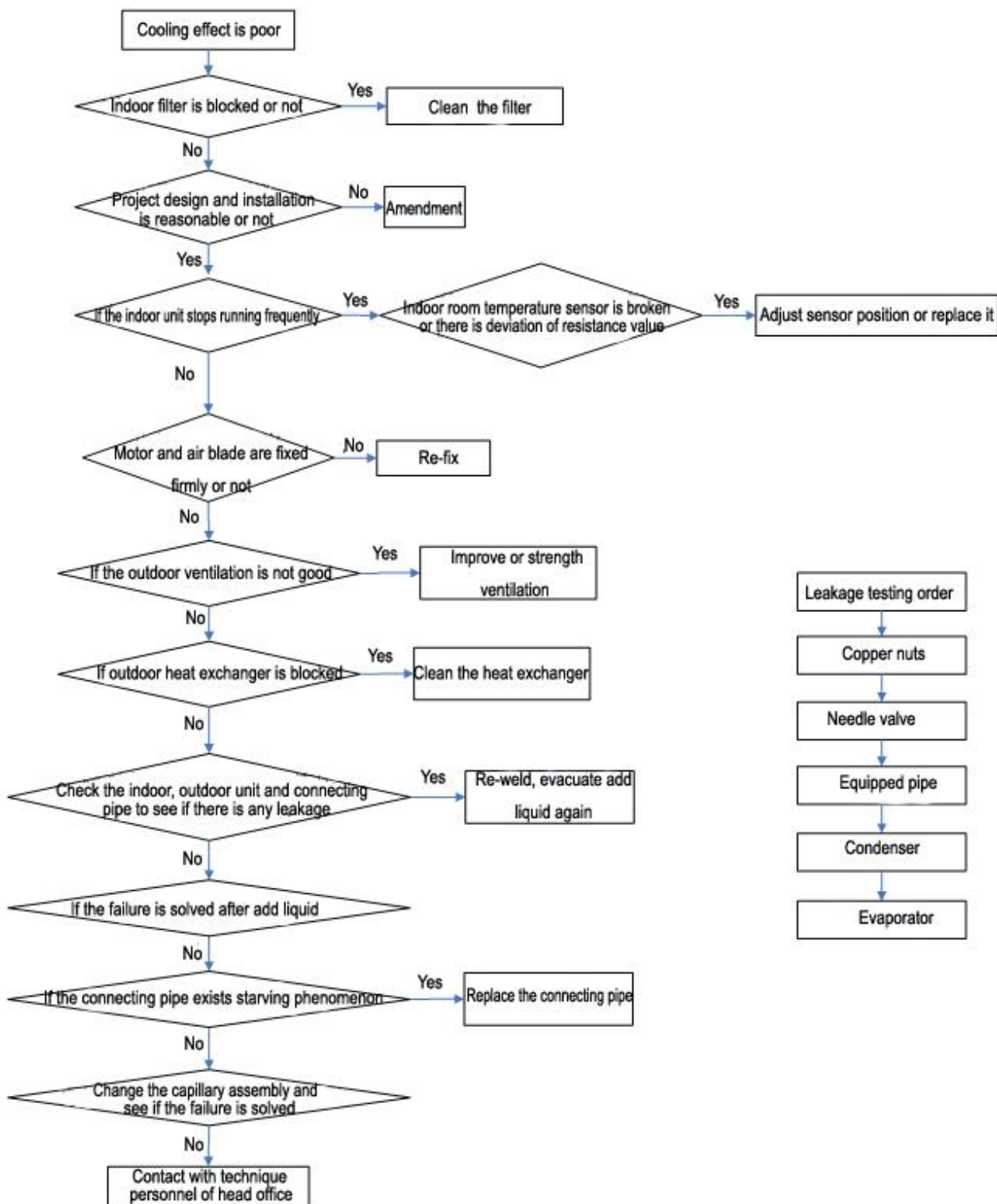
### Sensor failure protection



## No action after power-on

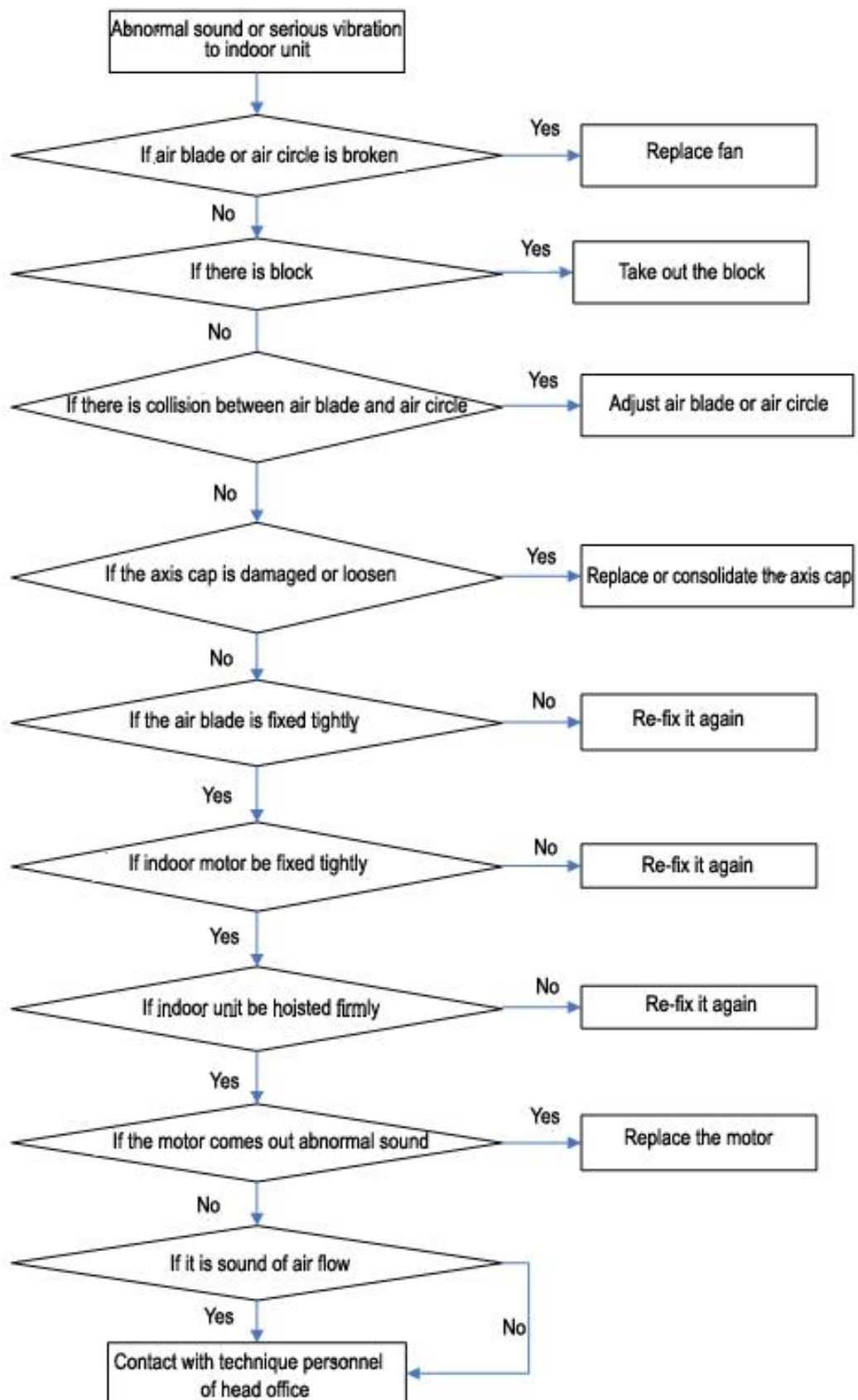


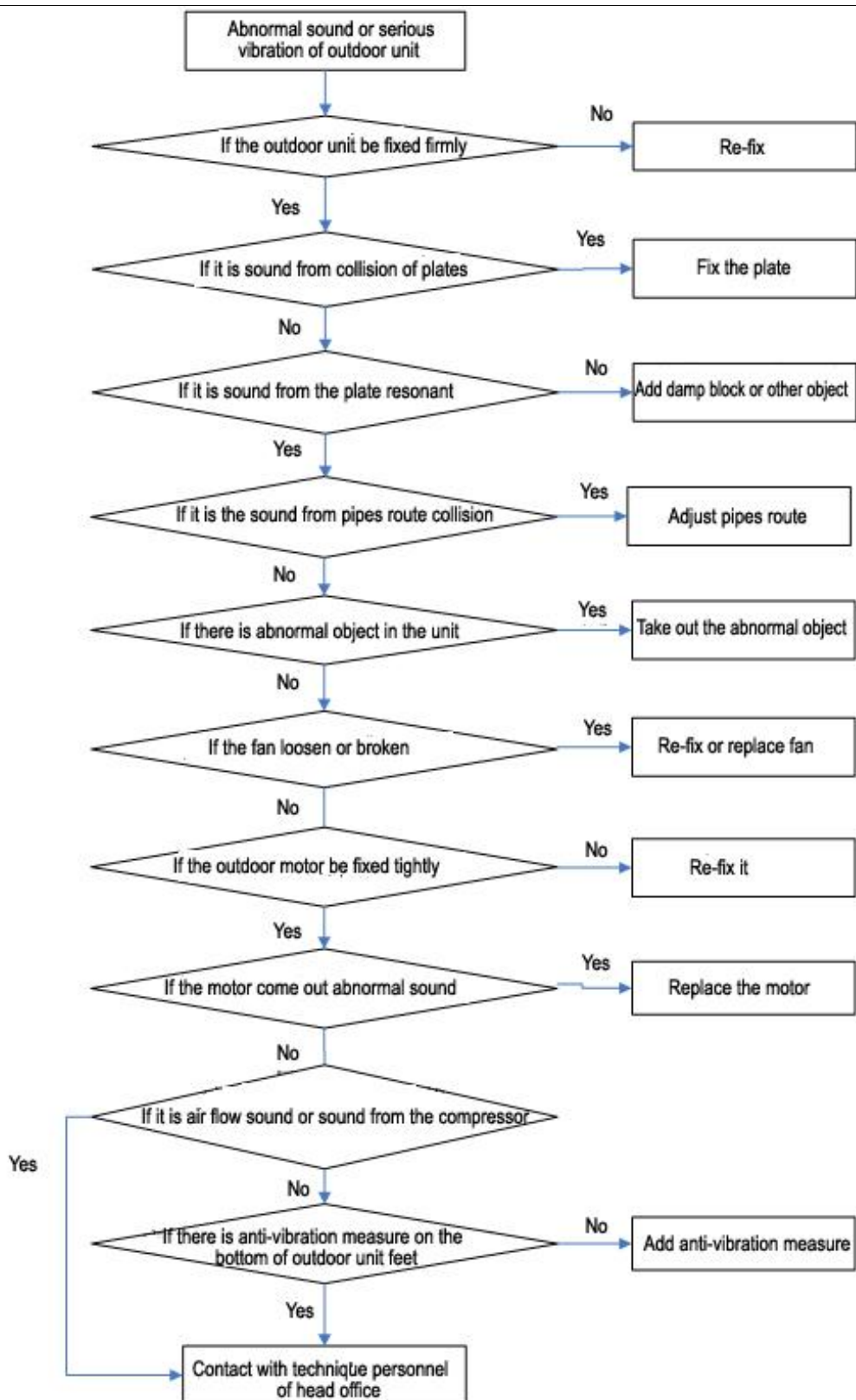
Poor effect



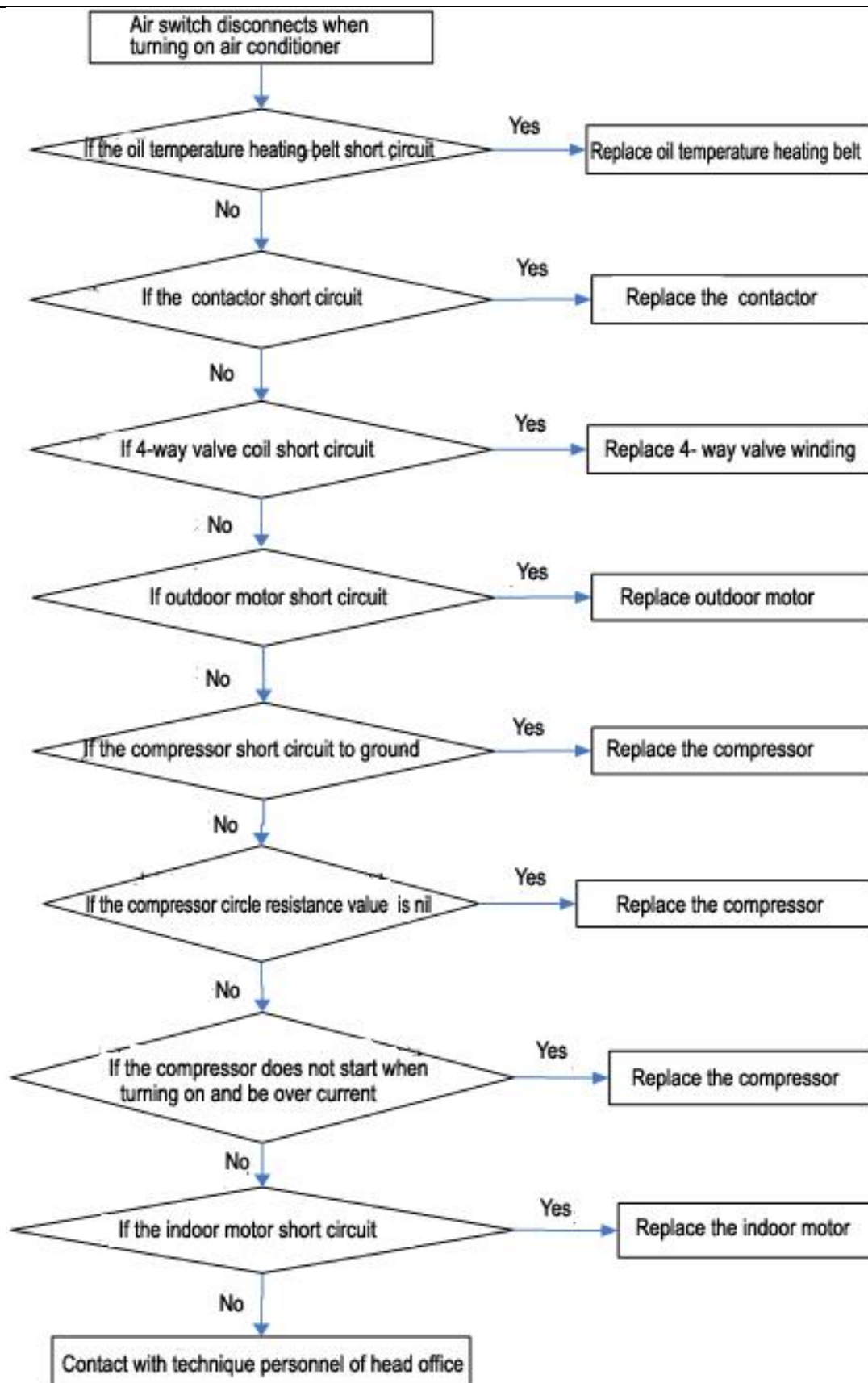


Abnormal sound or vibration

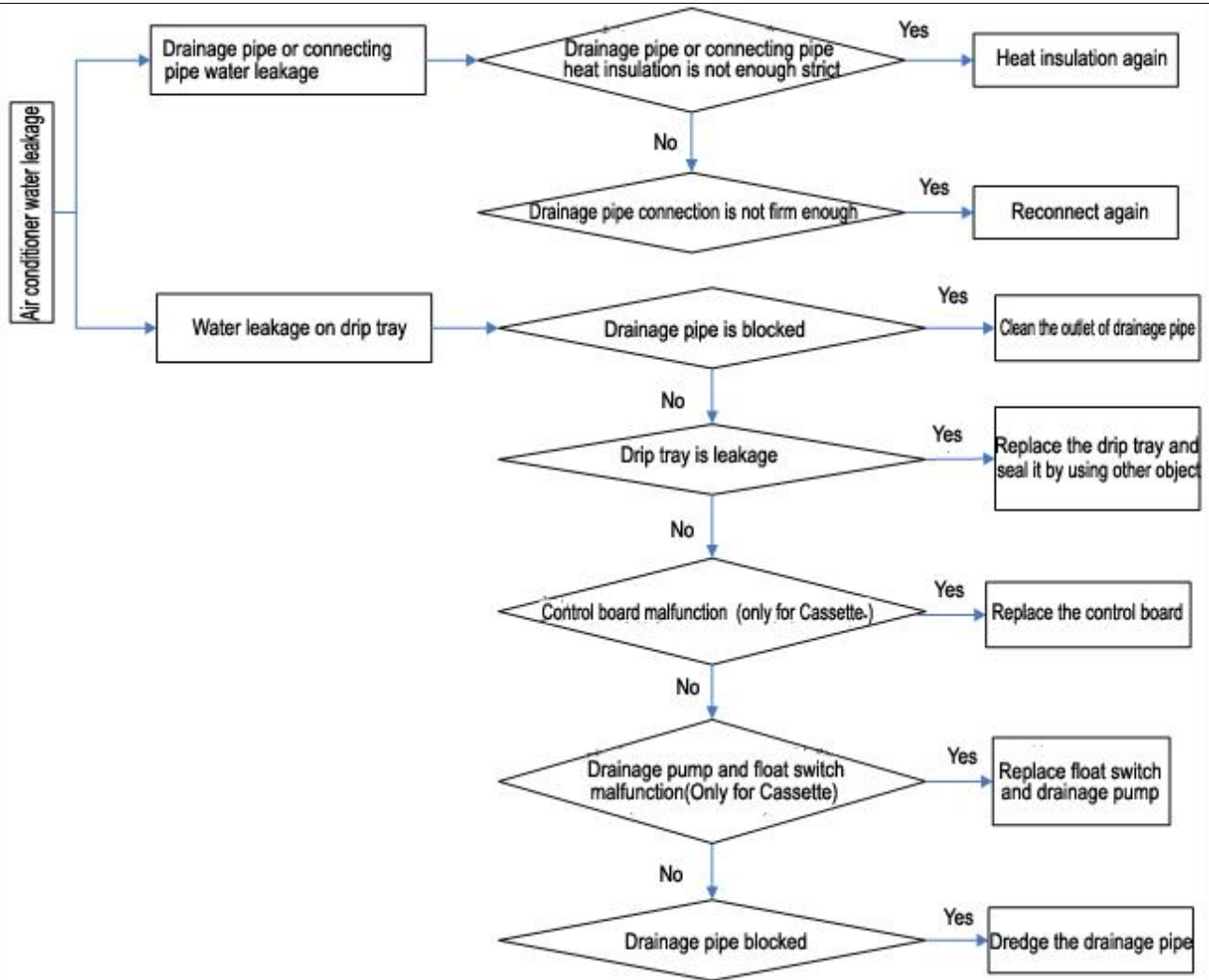




**Air switch action when air conditioner starting up**



### Air conditioner water leakage





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201811 *Technical Suppport Department*

更新记录表

| 更新时间       | 更新版本       | 更新人 | 更新内容                       |
|------------|------------|-----|----------------------------|
| 2021.07.12 | 20210712 版 | 程送圆 | B7 系列项目完成，增加认证型号、爆炸图、电气原理图 |
|            |            |     |                            |

## Техника для климата

Доставляем оборудование по всей России от 3 дней транспортными компаниями. Реализуем проекты в десятках регионов — от Калининграда до Владивостока.

**9600+**

объектов и поставок

**от 1 дня**

отгрузка в транспортную компанию

### Технические данные файла

Документ: Сервисная инструкция Royal Clima Cassete

Идентификатор библиотеки: LIB-003519

Исходный файл: royal-clima-cassete-servisnaya-instruktsiya.pdf

SHA-256 оригинала: b4e1a3a7ad7bce0b768c46a9daee7b809598aa53ad2189ff8306bf4027f115d2

Постоянная ссылка: <https://iclim.ru/library/royal-clima-cassete-servisnaya-instruktsiya.pdf>

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