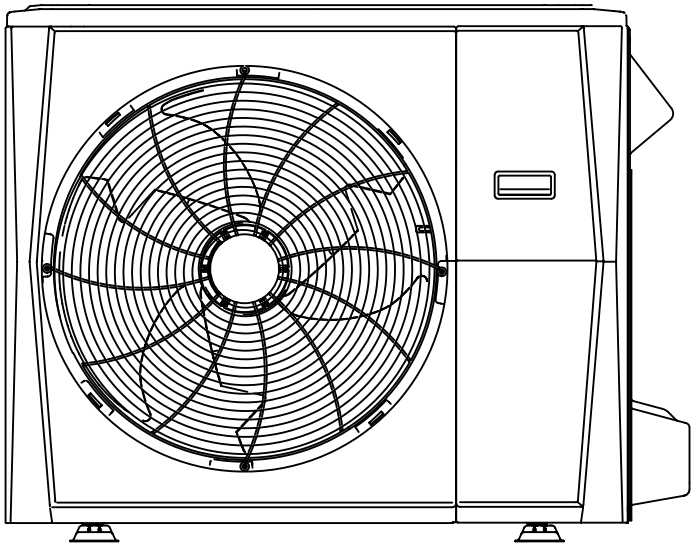
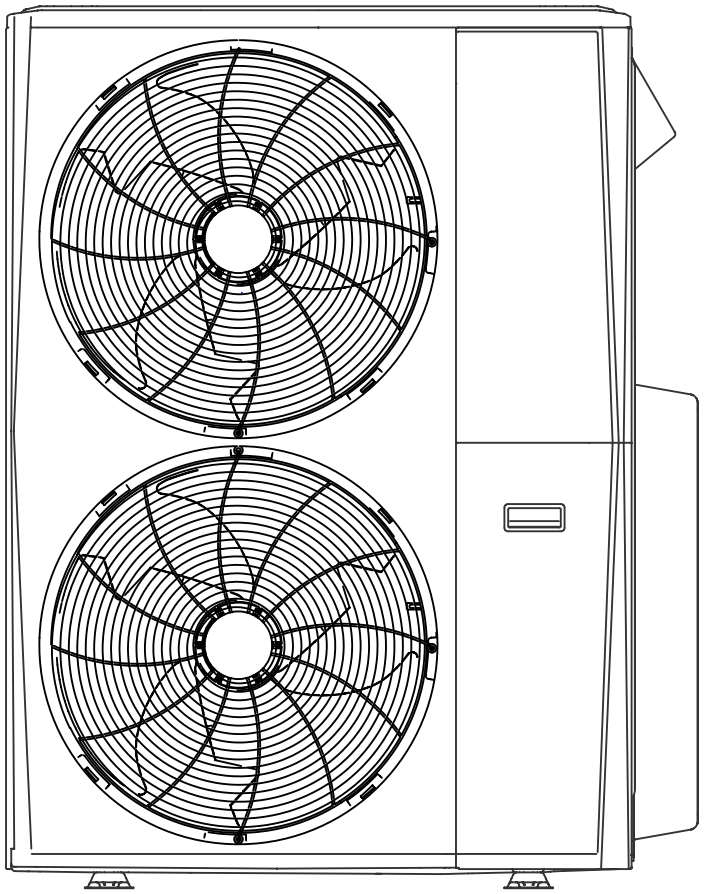
Service Manual
Multi-Zone Oudoor Unit

XTREME HEAT & Regular Heat For 18,000 - 55,000 BTU Systems





Units Covered In This Manual

SYSTEM ZONES	BTU/H	VOLTAGE/ PHASE	OUTDOOR MODEL
3	18,000	208/230-1	M03EX-H18B-2A
4	27,000	208/230-1	M04EX-H27B-2A
5	36,000	208/230-1	M05EX-H36B-2A
6	48,000	208/230-1	M06EX-H48B-2A
6	60,000	208/230-1	M06EX-H60B-2A
3	19,000	208/230-1	M03HX-H18B-2A
4	27.000	208/230-1	M04HX-H27B-2A
5	36,000	208/230-1	M05HX-H36B-2A
6	47,000	208/230-1	M06HX-H48B-2A
6	51,000	208/230-1	M06HX-H60B-2A

A2L

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Safety Precautions

To prevent personal injury, property, or unit damage, adhere to all precautionary measures and instructions outlined in this manual. Before servicing a unit, refer to this service manual and its relevant sections.
Failure to adhere to all precautionary measures listed in this section may result in personal injury, damage to the unit or property, or in extreme cases, death.

⚠ WARNING

WARNING indicates a potentially hazardous situation that if not avoided could result in serious personal injury or death.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which if not avoided could result in minor or moderate personal injury, or unit damage.

NOTE

A property-damage-only hazard, meaning no personal injury is possible.

⚠ WARNING

In Case Of Accidents Or Emergencies

- If a gas leak is suspected, immediately turn off the gas and ventilate the area if a gas leak is suspected before turning the unit on.
- If strange sounds or smoke are detected from the unit, turn the breaker off and disconnect the power supply cable.
- If the unit comes into contact with liquid, contact an authorized service center.
- If liquid from the batteries touches skin or clothing, immediately rinse or wash the area well with clean water.
- Do not insert hands or other objects into the air inlet or outlet while the unit is plugged in.
- Do not operate the unit with wet hands.
- Do not use a remote controller that has previously been exposed to battery damage or battery leakage.

⚠ CAUTION

- Clean and ventilate the unit at regular intervals when operating it near a stove or similar devices.
- Do not use the unit during severe weather conditions. If possible, remove the product from the window before such occurrences.

⚠ WARNING

Pre-Installation And Installation

- Use this unit only on a dedicated circuit.
- Damage to the installation area could cause the unit to fall, potentially resulting in personal injury, property damage, or product failure.
- Only qualified personnel should disassemble, install, remove, or repair the unit.
- Only a qualified electrician should perform electrical work. For more information, contact your dealer, seller, or an authorized service center.

⚠ CAUTION

- While unpacking be careful of sharp edges around the unit as well as the edges of the fins on the con- denser and evaporator.

⚠ WARNING

Operation And Maintenance

- Do not use defective or undersized circuit breakers.
- Ensure the unit is properly grounded and that a dedicated circuit and breaker are installed.
- Do not modify or extend the power cable. Ensure the power cable is secure and not damaged during operation.
- Do not unplug the power supply plug during operation.
- Do not store or use flammable materials near the unit.
- Do not open the inlet grill of the unit during operation.
- Do not touch the electrostatic filter if the unit is equipped with one.
- Do not block the inlet or outlet of air flow to the unit.
- Do not use harsh detergents, solvents, or similar items to clean the unit. Use a soft cloth for cleaning.
- Do not touch the metal parts of the unit when removing the air filter, as they are very sharp.
- Do not step on or place anything on the unit or outdoor units.
- Do not drink water drained from the unit
- Avoid direct skin contact with water drained from the unit.
- Use a firm stool or step ladder according to the manufacturer's procedures when cleaning or maintaining the unit.

⚠ CAUTION

- Do not install or operate the unit for an extended period in areas of high humidity or in an environment directly exposed to sea wind or salt spray.
- Do not install the unit on a defective or damaged installation stand or in an insecure location.
- Ensure the unit is installed at a level position
- Do not install the unit where noise or air discharge created by the outdoor unit will negatively impact the environment or nearby residences.
- Do not expose skin directly to the air discharged by the unit for prolonged periods.
- Ensure the unit does not operate in areas with water or other liquids.
- Ensure the drain hose is installed correctly to ensure proper water drainage.
- When lifting or transporting the unit, it is recommended that two or more people are used for this task.
- When the unit is not to be used for an extended time, disconnect the power supply or turn off the breaker.

⚠ WARNING

Information servicing (For flammable materials)

1. Installation (where refrigerant pipes are allowed)

- Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry-recognized assessment specification.
- Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
- That the installation of pipework shall be kept to a minimum.
- That pipework shall be protected from physical damage.
- Where refrigerant pipes shall comply with national gas regulations.
- That mechanical connections shall be accessible for maintenance purposes.
- Be more careful that foreign matter (oil, water, etc.) does not enter the piping. Also, when storing the piping, securely seal the opening by pinching, taping, etc.
- All working procedures that affect safety means shall only be carried out by competent technicians.
- Appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
- Joints shall be tested with detection equipment with a capability of 5 g/year of refrigerant or better, with the equipment in a standstill and under operation or under pressure of at least these standstill or operation conditions after installation. Detachable joints should NOT be used on the indoor side of the unit (brazed, welded joints could be used).
- In cases that require mechanical ventilation, ventilation openings shall be kept clear of obstruction.

2. When a FLAMMABLE REFRIGERANT is used, the requirements for installation space of appliance and/or ventilation requirements are determined according to

- the mass charge amount (M) used in the appliance,
- the installation location,
- the type of ventilation of the location or the appliance.
- piping material, pipe routing, and installation shall include protection from physical damage in operation and service, and comply with national and local codes and standards, such as ASHRAE 15, IAPMO Uniform Mechanical Code, ICC International Mechanical Code, or CSA B52. All field joints shall be accessible for inspection before being covered or enclosed.
- that protection devices, piping, and fittings shall be protected as far as possible against adverse environmental effects, for example, the danger of water collecting and freezing in relief pipes or the accumulation of dirt and debris;
- that piping in refrigeration systems shall be so designed and installed to minimize the likelihood of hydraulic shock damaging the system;
- that steel pipes and components shall be protected against corrosion with a rustproof coating before applying any insulation;
- that precautions shall be taken to avoid excessive vibration or pulsation;
- the minimum floor area of the room shall be mentioned in the form of a table or a single figure without reference to a formula;
- after completion of field piping for split systems, the field pipework shall be pressure tested with an inert gas and then vacuum tested before refrigerant charging, according to the following requirements:
  a. The minimum test pressure for the low side of the system shall be the low side design pressure and the minimum test pressure for the high side of the system shall be the high side design pressure, unless the high side of the system can not be isolated from the low side of the system in which case the entire system shall be pressure tested to the low side design pressure.
  b. The test pressure after removal of the pressure source shall be maintained for at least 1 h with no decrease of pressure indicated by the test gauge, with test gauge resolution not exceeding 5% of the test pressure.
  c. During the evacuation test, after achieving a vacuum level specified in the manual or less, the refrigeration system shall be isolated from the vacuum pump and the pressure shall not rise above 1500 microns within 10 min. The vacuum pressure level shall be specified in the manual and shall be the lessor of 500 microns or the value required for compliance with national and local codes and standards, which may vary between residential, commercial, and industrial buildings.
- field-made refrigerant joints indoors shall be tightness tested according to the following requirements: The test method shall have a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0,25 times the maximum allowable pressure. No leak shall be detected.

3 . Qualification of workers

Any maintenance, service, and repair operations must require the qualification of the working personnel. Every working procedure that affects safety means shall only be carried out by competent technicians who joined the training and achieved competence should be documented by a certificate. The training of these procedures is carried out by national training organizations or manufacturers that are accredited to teach the relevant national competency standards that may be set in legislation. All training shall follow the ANNEX HH requirements of UL 60335-2-40 4th Edition.

Examples of such working procedures are:

- breaking into the refrigerating circuit;
- opening of sealed components;
- opening of ventilated enclosures.

4. Checks to the area

Before beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system, the following precautions shall be complied with before conducting work on the system.

5. Work procedure

Works shall be undertaken under a controlled procedure to minimize the risk of flammable gas or vapor being present while the work is being performed.

6. General work area

All maintenance staff and others working in the local area should be instructed on the nature of the work being carried out. Work in confined spaces shall be avoided.

7. Checking for the presence of refrigerant

The area should be checked with an appropriate refrigerant detector before and during work, to ensure the technician is aware of potentially flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. no sparking, adequately sealed or intrinsically safe.

8. Presence of fire extinguisher

If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO_2 fire extinguisher adjacent to the charging area.

9. No ignition sources

No person carrying out work on a REFRIGERATING SYSTEM which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of a fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repair, removal, and disposal, during which refrigerant can be released into the surrounding space. Before work takes place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.

"No Smoking" signs shall be displayed.

10. Ventilated area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

11. Check the refrigeration equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance. The following checks shall be applied to installations using FLAMMABLE REFRIGERANTS:

- the actual refrigerant charge is in accordance with the room size within which the refrigerant-containing parts are installed;
- the ventilation machinery and outlets are operating adequately and are not obstructed;
- if an indirect refrigerating circuit is being used, the secondary circuits shall be checked for the presence of refrigerant;
- marking to the equipment continues to be visible and legible, marking and illegible signs shall be corrected;
- refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance that may corrode refrigerant-containing components unless the components are constructed of materials that are inherently resistant to being corroded or are suitably protected against being so corroded.

12. Checks to electrical devices

Repair and maintenance of electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately it is necessary to continue operation, and adequate temporary solution shall be used.

This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include:

that capacitors are discharged: this shall be done safely to avoid the possibility of sparking;

that no live electrical components and wiring are exposed while charging, recovering, or purging the system;

that there is continuity of earth bonding;

Sealed electrical components shall be replaced if it's damaged; Intrinsically safe components must be replaced if it's damaged.

Sealed electrical components shall be replaced.

Intrinsically safe components must be replaced.

13. Wiring

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges, or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

14. Detection of flammable refrigerants

Under no circumstances shall potential sources of ignition be used in the search for or detection of refrigerant leaks. A halide torch(or any other detector using a naked flame) shall not be used.

The following leak detection methods are deemed acceptable for refrigerant systems. Electronic leak detectors may be used to detect refrigerant leaks but, in the case of FLAMMABLE REFRIGERANTS, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed. Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

NOTE

Examples of leak-detection fluids are

- bubble method,
- fluorescent method agents.

If a leak is suspected, all naked flames shall be removed/ extinguished.

If leakage of refrigerant is found which requires brazing,

all of the refrigerant shall be recovered from the system, or isolated (using shut-off valves) in a part of the system remote from the leak. See the following instructions for the removal of refrigerant.

15. Removal and evacuation

When breaking into the refrigerant circuit to make repairs - or for any other purpose conventional procedures shall be used. However, for flammable refrigerants best practice must be followed since flammability is a consideration.

The following procedure shall be adhered to:

- safely remove refrigerant following local and national regulations;
- evacuate;
- purge the circuit with inert gas (optional for A2L);
- evacuate (optional for A2L);
- continuously flush or purge with inert gas when using a flame to open the circuit; and open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, refrigerant purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to the atmosphere, and finally pulling down to a vacuum (optional for A2L). This process shall be repeated until no refrigerant is within the system (optional for A2L). When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.

The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be available.

16. Charging procedures

In addition to conventional charging procedures, the following requirements shall be followed:

- Works shall be undertaken with appropriate tools only (In case of uncertainty, please consult the manufacturer of the tools for use with flammable refrigerants) Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimize the amount of refrigerant contained in them.
- Ensure that the refrigeration system is earthed before charging the system with refrigerant.
- Label the system when charging is complete(if not already). Extreme care shall be taken not to overfill the refrigeration system.
- Before recharging the system, it shall be pressure tested with oxygen-free nitrogen (OFN). The system shall be leak tested on completion of charging but before commissioning. A follow-up leak test shall be carried out before leaving the site.

17. Decommissioning

Before carrying out this procedure, the technician must be completely familiar with the equipment and all its details. It is recommended good practice that all refrigerants are recovered safely. Before the task is carried out, an oil and refrigerant sample shall be taken in case analysis is required before the re-use of recovered refrigerant. Electrical power must be available before the task commences.

a. Become familiar with the equipment and its operation.
b. Isolate system electrically
c. Before attempting the procedure ensure that:
   - mechanical handling equipment is available, if required, for handling refrigerant cylinders;
   - all personal protective equipment is available and being used correctly;
   - the recovery process is supervised at all times by a competent person;
   - recovery equipment and cylinders conform to the appropriate standards.
d. Pump down the refrigerant system, if possible.
e. If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.
f. Make sure that the cylinder is situated on the scales before recovery takes place.
g. Start the recovery machine and operate following instructions.
h. Do not overfill cylinders (no more than 80 % volume liquid charge)
i. Do not exceed the maximum working pressure of the cylinder, even temporarily.
j. When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from the site promptly and all isolation valves on the equipment are closed off.
k. Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

18. Labelling

Equipment shall be labeled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing FLAMMABLE REFRIGERANTS, ensure that there are labels on the equipment stating the equipment contains FLAMMABLE REFRIGERANT.

19. Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labeled for that refrigerant (i. e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valves and associated shut-off valves in good working order. Empty recovery

cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of the flammable refrigerant. If in doubt, the manufacturer should be consulted. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition.

The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

20. Transportation, marking, and storage for units that employ flammable refrigerants

a. Transport of equipment containing flammable refrigerants:
Compliance with the transport regulations.

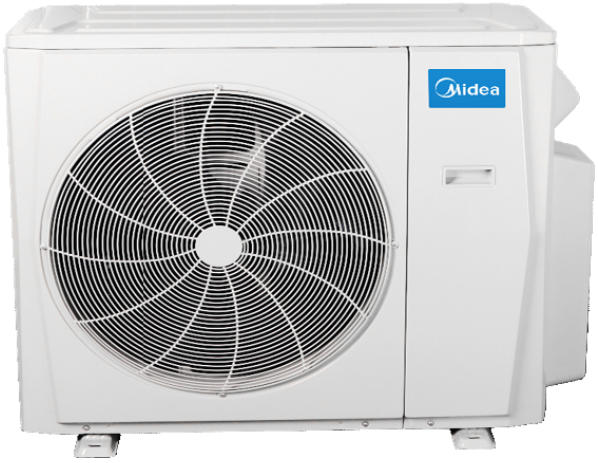
b. Marking of equipment using signs:
Compliance with local regulations.

c. Disposal of equipment using flammable refrigerants
Compliance with national regulations.

d. Storage of equipment/appliances
The storage of equipment should follow the manufacturer's instructions.

e. Storage of packed (unsold) equipment
Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge. The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.

External Appearance



18k Extreme Heat

36k Extreme Heat

18k, 27k & 36k Regular Heat
27k Extreme Heat

48k & 60k Extreme Heat
48k & 60k Regular Heat

Features

Power up to 6 Zones

One more connection port is added to the multi-zone condensers of all capacities.

Capacity	18k	27k	36k	48k	55k
Ports	3	4	5	6	6
Zones	1-3	1-4	1-5	1-6	1-6

Wide Variety of Indoor Units

A comprehensive indoor lineup with 7 types and 33 models with tailored designs for different spaces and functions. This product line has flexibility to combine ductless and ducted indoor units or incorporate an A-Coil to the system.

Ductless Units

Console
0.75-1.5 TONS

2'x2' 4-Way Cassette
0.75-2 TONS

Wall-Mounted
1.5-3 TONS

One-Way Cassette
0.5-1.5 TONS

Ceiling & Floor
1.5-2 TONS

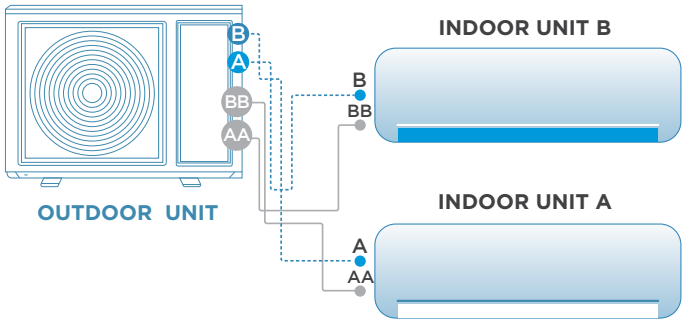
Ducted Units

Slim Duct
0.75-2 TONS

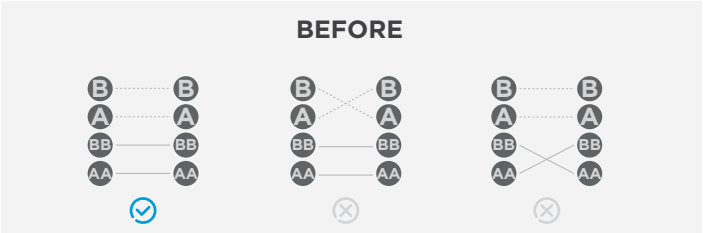
Air Handling Unit
1.5-3 TONS

Easy Wiring

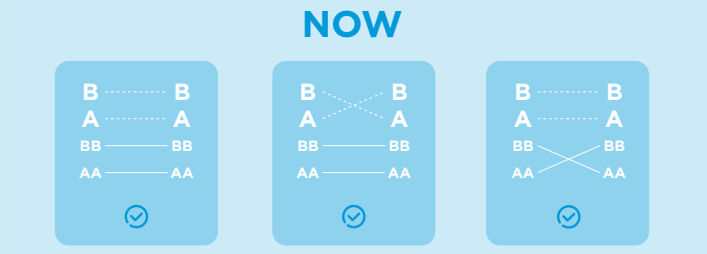
With SynchroConnect technology, Midea multi-zone systems can self-diagnose the connection status after the installer connects the wires and line sets, verifying whether the connection is correct or not.



And what's more amazing is that, with proper wiring between indoor units and the condenser, the system can automatically synchronize the refrigerant lines to the wires, even when the lines are connected to the wrong ports, and vice versa.



That means when dealing with line sets and wires, Midea installers can focus on correctly connecting the refrigerant lines, or the wires, and the other will automatically match to it with the activation of SynchroConnect technology.



Dimension Drawing

All Units: inch (mm)

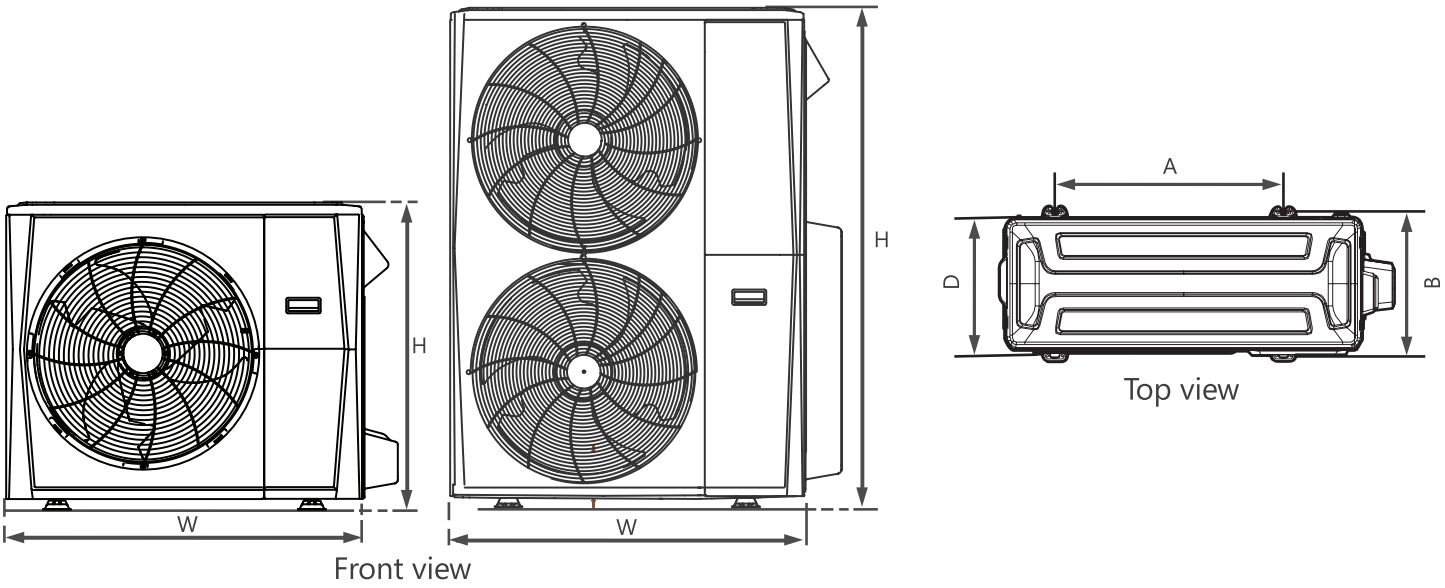


Fig. D-1: Unit Dimensions

Model	Unit Sizes			Mounting Dimensions	
	Width (W) in. (mm)	Depth (D) in. (mm)	Height (H) in. (mm)	(A) in. (mm)	(B) in. (mm)
M03EX-H18B-2A	35 (890)	13-1/2 (342)	26-1/2 (673)	26-1/10 (663)	13-9/10 (354)
M03HX-H18B-2A M04HX-H27B-2A M04EX-H27B-2A MO5EX-H36B-2A	37-1/4 (946)	16-1/8 (410)	31-7/8 (810)	25-1/2 (673)	15-8/10 (403)
M05HX-H36B-2A	38-1/2 (978)	16-1/3 (415)	38-3/ 8 (975)	24-1/4 (616)	15-5/8 (397)
M06HX-H48B-2A M06HX-H60B-2A M06EX-H48B-2A M06EX-H60B-2A	37-1/2 (952)	16·1/3 (415)	52-1/2 (1333)	25 (634)	15-9/10 (404)

Service Clearances

The distance between the mounted outdoor unit should meet the specifications illustrated in the following diagrams.

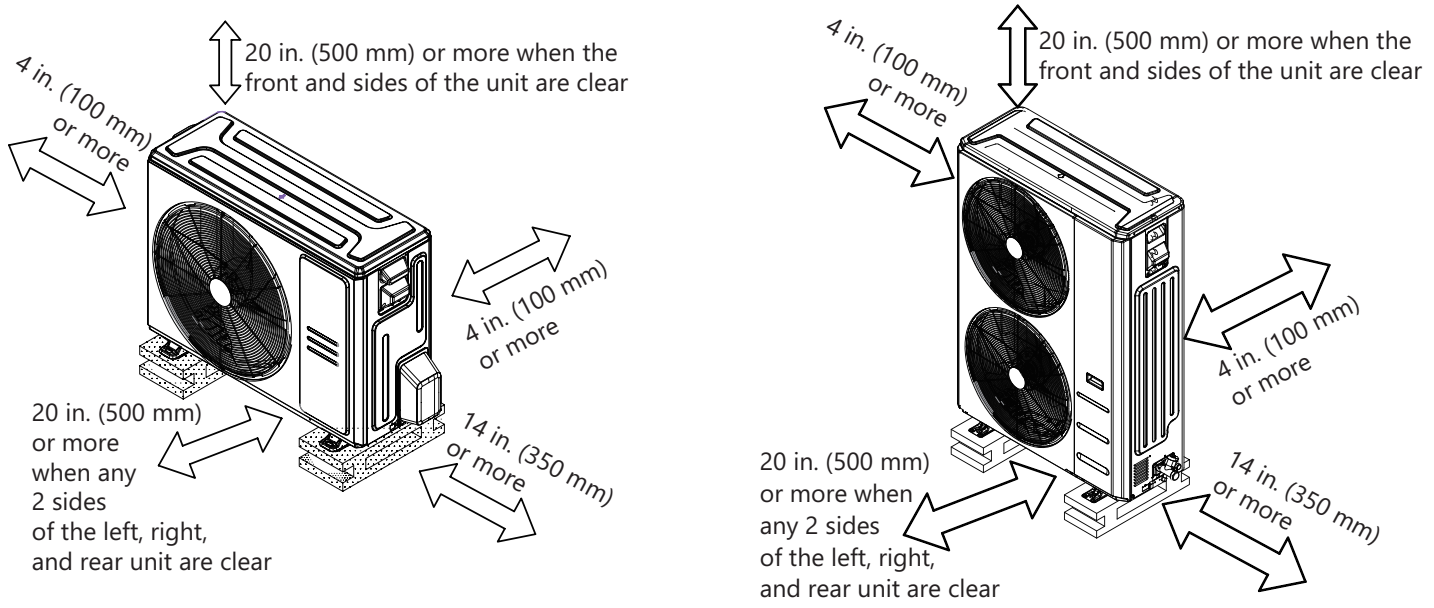


Fig. SC-1: Single Unit Clearance Dimensions

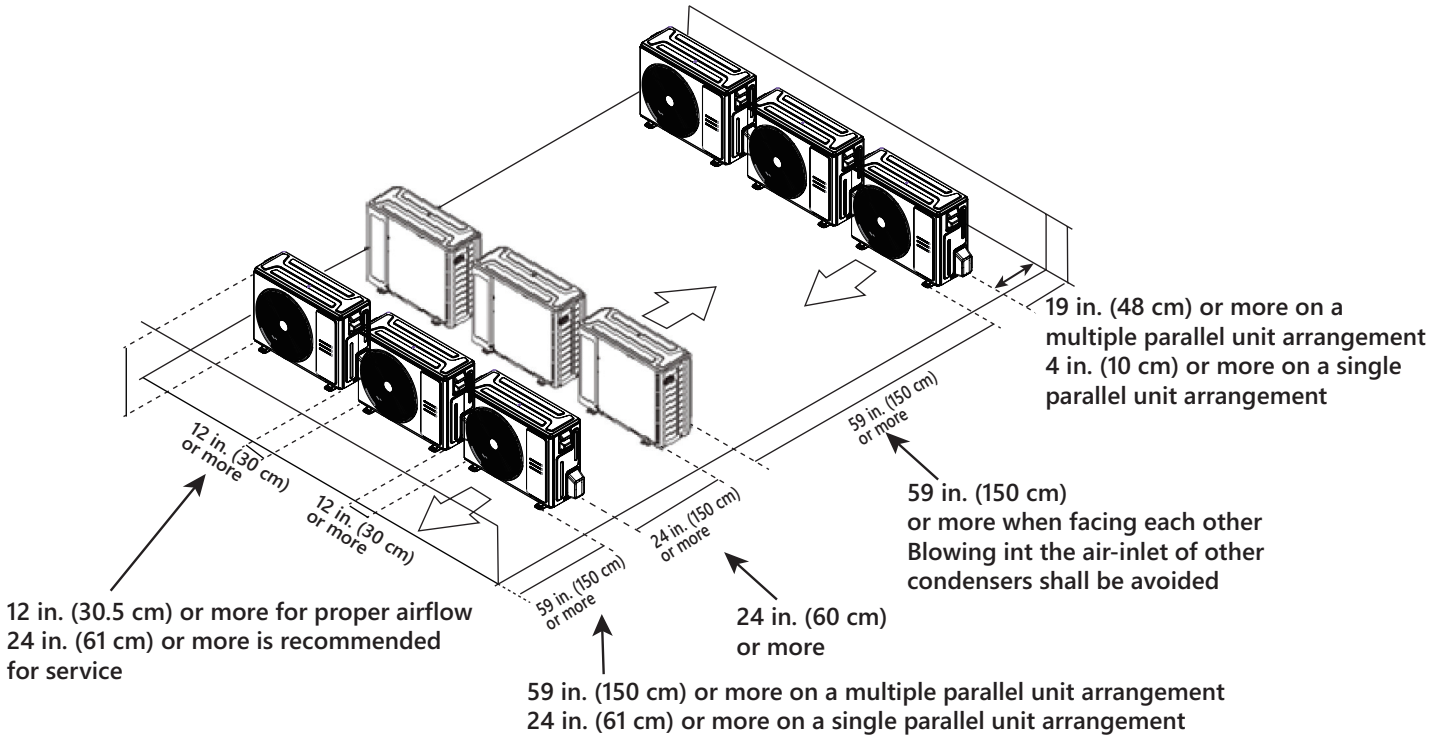


Fig. SC-2: Clearances for Multiple Units

Pipe Length and Drop Height

Ensure that the length of the refrigerant pipe and the drop height between the indoor and outdoor units meet the requirements shown in the following table.

	1 drive 2	1 drive 3	1 drive 4	1 drive 5	1 drive 6
Max. length for all rooms (ft/m)	131/40	197/60	262/80	262/80	262/80
Max. length for one IU (ft/m)	82/25	98/30	115/35	115/35	115/35
Max. height difference between IU and OU (ft/m)	49/15	49/15	49/15	49/15	49/15
Max. height difference between IUs (ft/m)	33/10	33/10	33/10	33/10	33/10

⚠ CAUTION

- Refrigerant pipe diameter is different according to the indoor unit to be connected. When using the extension pipe, refer to the tables below.
- When the refrigerant pipe diameter is different from that of the outdoor unit union, an additional transfer connector needs to be used on the outdoor unit.

Indoor unit		
Model	**Pipe diameter (inch (mm))**	
6k,9k,12k	Liquid	Ø1/4 (Ø6.35)
	Gas	Ø3/8 (Ø9.52)
18k	Liquid	Ø1/4 (Ø6.35)
	Gas	Ø1/2 (Ø12.7)
24k,30k,36k	Liquid	Ø3/8 (Ø9.52)
	Gas	Ø5/8 (Ø16)

Outdoor unit				
Model	**Pipe diameter (inch (mm))**		**Adaptor (inch (mm))**	**Qty**
MO3HX-H18B-2A	Liquid	Ø1/4(Ø6.35)*3	Ø3/8(Ø9.52)-->Ø1/2(Ø12.7)	2
	Gas	Ø3/8(Ø9.52)*3	Ø1/2(Ø12.7)-->Ø5/8(Ø16)	1
MO3EX-H18B-2A	Liquid	Ø1/4(Ø6.35)*3	Ø3/8(Ø9.52)-->Ø1/2(Ø12.7)	2
	Gas	Ø3/8(Ø9.52)*3		
MO4HX-H27B-2A	Liquid	Ø1/4(6.35)*4	Ø1/4(Ø6.35)-->Ø3/8(Ø9.52)	1
	Gas	Ø3/8(Ø9.52)*3	Ø1/2(Ø12.7)-->Ø5/8(Ø16)	1
		Ø1/2(Ø12.7)*1	Ø3/8(Ø9.52)-->Ø1/2(Ø12.7)	1
			Ø1/2(Ø12.7)-->Ø3/8(Ø9.52)	1
MO4EX-H27B-2A	Liquid	Ø1/4(6.35)*4	Ø3/8(Ø9.52)-->Ø1/2(Ø12.7)	3
	Gas	Ø3/8(Ø9.52)*3	Ø1/2(Ø12.7)-->Ø3/8(Ø9.52)	1
		Ø1/2(Ø12.7)*1		
MO5HX-H36B-2A	Liquid	Ø1/4(6.35)*5	Ø1/4(Ø6.35)-->Ø3/8(Ø9.52)	2
	Gas	Ø3/8(Ø9.52)*3	Ø1/2(Ø12.7)-->Ø5/8(Ø16)	2
		Ø1/2(Ø12.7)*1	Ø3/8(Ø9.52)-->Ø1/2(Ø12.7)	1
			Ø1/2(Ø12.7)-->Ø3/8(Ø9.52)	2
MO5EX-H36B-2A	Liquid	Ø1/4(6.35)*5	Ø1/4(Ø6.35)-->Ø3/8(Ø9.52)	1
	Gas	Ø3/8(Ø9.52)*4	Ø1/2(Ø12.7)-->Ø5/8(Ø16)	1
		Ø1/2(Ø12.7)*1	Ø3/8(Ø9.52)-->Ø1/2(Ø12.7)	3
			Ø1/2(Ø12.7)-->Ø3/8(Ø9.52)	1
MO6HX-H48B-2A MO6HX-H60B-2A MO6EX-H48B-2A MO6EX-H60B-2A	Liquid	Ø1/4(6.35)*6	Ø1/4(Ø6.35)-->Ø3/8(Ø9.52)	2
	Gas	Ø3/8(Ø9.52)*4	Ø1/2(Ø12.7)-->Ø5/8(Ø16)	2
		Ø1/2(Ø12.7)*2	Ø3/8(Ø9.52)-->Ø1/2(Ø12.7)	1
			Ø1/2(Ø12.7)-->Ø3/8(Ø9.52)	2

Multiple Indoor Unit Combination Rule

MULTI INDOOR UNITS COMBINATION RULE									
Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
1drive 3	MO3EX-H18B-2A (22022316002165)	Wall mounted 6K/9K/12K/18K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K; High-static duct: 9K/12K (should be considered as 18K)	Non-ducted/Ducted: 6+6+6	12	6+6	6+6+6			
				18	6+9	6+6+9			
					6+12	6+9+9			
					6+18				
					9+9				
					9+12				
					12+12				
		When there One Way Cassette in the combination: Wall mounted: 6K/9K/12K/18K; Cassette/One Way Cassette/Low-static Duct/Console/ Floor Ceiling: 6K/9K/12K/18K; High-static duct: 9K/12K (should be considered as 18K)	/	12	6+6				
				18	6+9				
					6+12				
					6+18				
					9+9				
					9+12				
					12+12				
		High-static duct (Only): 9K/12K	Ducted: 9+9	9	9+9				
				12	9+12				
					12+12				
1 drive 4	MO4EX-H27B-2A (22022316002325)	Wall mounted: 6K/9K/12K/18K/24K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K);	Non-ducted/Ducted: 6+6+6+9	18	6+6	6+6+6	6+6+6+6		
				24	6+9	6+6+9	6+6+6+9		
					6+12	6+6+12	6+6+6+12		
					6+18	6+6+18	6+6+9+9		
					6+24	6+6+24	6+6+9+12		
					9+9	6+9+9	6+9+9+9		
					9+12	6+9+12	6+9+9+12		
					9+18	6+9+18	9+9+9+9		
					9+24	6+12+12			
					12+12	6+12+18			
					12+18	9+9+9			
					12+24	9+9+12			
					18+18	9+9+18			
						9+12+12			
						12+12+12			
		When there One Way Cassette in the combination: Wall mounted: 6K/9K/12K/18K/24K; Cassette/One Way Cassette/Low-static Duct/Console/ Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K);	/	18	6+6	6+6+6			
				24	6+9	6+6+9			
					6+12	6+6+12			
					6+18	6+6+18			
					6+24	6+6+24			
					9+9	6+9+9			
					9+12	6+9+12			
					9+18	6+9+18			
					9+24	6+12+12			
					12+12	6+12+18			
					12+18	9+9+9			
					12+24	9+9+12			
					18+18	9+9+18			
						9+12+12			
						12+12+12			
		When there AHU in the combination: Wall mounted: 6K/9K/12K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K); AHU: 18K/24K	/	18	6+18	6+6+18			
				24	9+18	6+9+18			
					12+18	9+9+18			
		When there One Way Cassette and AHU both in the combination: Wall mounted: 6K/9K/12K; Cassette/One Way Cassette/Low-static Duct/Console/ Floor Ceiling: 6K/9K/12K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K); AHU: 18K/24K;	/	18	6+18				
				24	9+18				
					12+18				
		High-static duct (Only): 9K/12K/18K/24K	Ducted: 9+18	9	9+9				
				12	9+12				
				18	9+18				
				24	9+24				
					12+12				
					12+18				
					12+24				

MULTI INDOOR UNITS COMBINATION RULE									
Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
1 drive 5	MO5EX-H36B-2A (22022316002345)	Wall mounted: 6K/9K/12K/18K/24K/30K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K (should be considered as 24K);	Non-ducted/Ducted: 6+6+6+9+9	24	6+18	6+6+6	6+6+6+6	6+6+6+6+6	
				30	6+24	6+6+9	6+6+6+9	6+6+6+6+9	
					9+9	6+6+12	6+6+6+12	6+6+6+6+12	
					9+12	6+6+18	6+6+6+18	6+6+6+6+18	
					9+18	6+6+24	6+6+6+24	6+6+6+9+9	
					9+24	6+9+9	6+6+9+9	6+6+6+9+12	
					12+12	6+9+12	6+6+9+12	6+6+6+9+18	
					12+18	6+9+18	6+6+9+18	6+6+9+9+9	
					12+24	6+9+24	6+6+9+24	6+6+9+9+12	
					18+18	6+12+12	6+6+12+12	6+6+9+9+18	
						6+12+18	6+6+12+18	6+9+9+9+9	
						6+12+24	6+6+12+24	6+9+9+9+12	
						6+18+18	6+6+18+18	6+9+9+9+18	
						9+9+9	6+9+9+9	9+9+9+9+9	
						9+9+12	6+9+9+12	9+9+9+9+12	
						9+9+18	6+9+9+18		
						9+9+24	6+9+9+24		
						9+12+12	6+9+12+12		
						9+12+18	6+9+12+18		
						9+12+24	6+12+12+12		
						9+18+18	6+12+12+18		
						12+12+12	9+9+9+9		
						12+12+18	9+9+9+12		
						12+12+24	9+9+9+18		
						12+18+18	9+9+12+12		
							9+9+12+18		
							9+12+12+12		
							12+12+12+12		
		When there One Way Cassette in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K; Cassette/One Way Cassette/Low-static Duct/Console/ Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K(should be considered as 24K)	/	24	6+18	6+6+6	6+6+6+6		
				30	6+24	6+6+9	6+6+6+9		
					9+9	6+6+12	6+6+6+12		
					9+12	6+6+18	6+6+6+18		
					9+18	6+6+24	6+6+6+24		
					9+24	6+9+9	6+6+9+9		
					12+12	6+9+12	6+6+9+12		
					12+18	6+9+18	6+6+9+18		
					12+24	6+9+24	6+6+9+24		
					18+18	6+12+12	6+6+12+12		
						6+12+18	6+6+12+18		
						6+12+24	6+6+12+24		
						6+18+18	6+6+18+18		
						9+9+9	6+9+9+9		
						9+9+12	6+9+9+12		
						9+9+18	6+9+9+18		
						9+9+24	6+9+9+24		
						9+12+12	6+9+12+12		
						9+12+18	6+9+12+18		
						9+12+24	6+12+12+12		
						9+18+18	6+12+12+18		
						12+12+12	9+9+9+9		
						12+12+18	9+9+9+12		
						12+12+24	9+9+9+18		
						12+18+18	9+9+12+12		
							9+9+12+18		
							9+12+12+12		
							12+12+12+12		
		When there AHU in the combination: Wall mounted: 6K/9K/12K/18K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K(should be considered as 24K); AHU:18K/24K/30K	/	24	6+18	6+6+18	6+6+6+18	6+6+6+6+18	
				30	6+24	6+6+24	6+6+6+24	6+6+6+9+18	
					9+18	6+9+18	6+6+9+18	6+6+9+9+18	
					9+24	6+9+24	6+6+9+24	6+9+9+9+18	
					12+18	6+12+18	6+6+12+18		
					12+24	6+12+24	6+6+12+24		
					18+18	9+9+18	6+9+9+18		
						9+9+24	6+9+9+24		
						9+12+18	6+9+12+18		
						9+12+24	6+12+12+18		
						12+12+18	9+9+9+18		
						12+12+24	9+9+12+18		

MULTI INDOOR UNITS COMBINATION RULE									
Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
1 drive 5	MO5EX-H36B-2A (22022316002345)	When there One Way Cassette and AHU both in the combination: Wall mounted: 6K/9K/12K/18K; Cassette/One Way Cassette/Low-static Duct/Console/ Floor Ceiling: 6K/9K/12K/18K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K(should be considered as 24K); AHU: 18K/24K/30K	/	24	6+18	6+6+18	6+6+6+18		
				30	6+24	6+6+24	6+6+6+24		
					9+18	6+9+18	6+6+9+18		
					9+24	6+9+24	6+6+9+24		
					12+18	6+12+18	6+6+12+18		
					12+24	6+12+24	6+6+12+24		
					18+18	9+9+18	6+9+9+18		
						9+9+24	6+9+9+24		
						9+12+18	6+9+12+18		
						9+12+24	6+12+12+18		
						12+12+18	9+9+9+18		
						12+12+24	9+9+12+18		
		High-static duct (Only): 9K/12K/18K/24K	Ducted: 12+12+12	18	9+9	9+9+9			
				24	9+12	9+9+12			
					9+18	9+9+18			
					9+24	9+9+24			
					12+12	9+12+12			
					12+18	9+12+18			
					12+24	9+12+24			
						12+12+12			
						12+12+18			
						12+12+24			
1 drive 6	MO6EX-H48B-2A (22022316002287)	Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K(should be considered as 24K);	Ducted: 9+9+9+9+9 Non-ducted: 9+9+9+9+12	30	6+24	6+6+18	6+6+6+6	6+6+6+6+6	6+6+6+6+6+6
				36	6+30	6+6+24	6+6+6+9	6+6+6+6+9	6+6+6+6+6+9
					6+36	6+6+30	6+6+6+12	6+6+6+6+12	6+6+6+6+6+12
					9+18	6+6+36	6+6+6+18	6+6+6+6+18	6+6+6+6+6+18
					9+24	6+9+12	6+6+6+24	6+6+6+6+24	6+6+6+6+9+9
					9+30	6+9+18	6+6+9+9	6+6+6+9+9	6+6+6+6+9+12
					9+36	6+9+24	6+6+9+12	6+6+6+9+12	6+6+6+6+9+18
					12+12	6+9+30	6+6+9+18	6+6+6+9+18	6+6+6+6+12+12
					12+18	6+9+36	6+6+9+24	6+6+6+9+24	6+6+6+6+12+18
					12+24	6+12+18	6+6+12+12	6+6+6+12+12	6+6+6+9+9+9
					12+30	6+12+24	6+6+12+18	6+6+6+12+18	6+6+6+9+9+12
					12+36	6+12+30	6+6+12+24	6+6+6+12+24	6+6+6+9+9+18
					18+18	6+12+36	6+6+18+18	6+6+6+18+18	6+6+6+9+12+12
					18+24	6+18+18	6+6+18+24	6+6+6+18+24	6+6+6+9+12+18
					18+30	6+18+24	6+9+9+9	6+6+9+9+9	6+6+6+12+12+12
					18+36	6+18+30	6+9+9+12	6+6+9+9+12	6+6+6+12+12+18
					24+24	6+18+36	6+9+9+18	6+6+9+9+18	6+6+9+9+9+9
					24+30	9+9+9	6+9+9+24	6+6+9+9+24	6+6+9+9+9+12
					24+36	9+9+12	6+9+12+12	6+6+9+12+12	6+6+9+9+9+18
					30+30	9+9+18	6+9+12+18	6+6+9+12+18	6+6+9+9+12+12
						9+9+24	6+9+12+24	6+6+9+12+24	6+6+9+9+12+18
						9+9+30	6+9+18+18	6+6+9+18+18	6+6+9+12+12+12
						9+9+36	6+9+18+24	6+6+9+18+24	6+6+9+12+12+18
						9+12+12	6+12+12+12	6+6+12+12+12	6+9+9+9+9+9
						9+12+18	6+12+12+18	6+6+12+12+18	6+9+9+9+9+12
						9+12+24	6+12+12+24	6+6+12+12+24	6+9+9+9+9+18
						9+12+30	6+12+18+18	6+6+12+18+18	6+9+9+9+12+12
						9+12+36	6+12+18+24	6+9+9+9+9	6+9+9+9+12+18
						9+18+18	9+9+9+9	6+9+9+9+12	6+9+9+12+12+12
						9+18+24	9+9+9+12	6+9+9+9+18	9+9+9+9+9+9
						9+18+30	9+9+9+18	6+9+9+9+24	9+9+9+9+9+12
						9+18+36	9+9+9+24	6+9+9+12+12	9+9+9+9+9+18
						12+12+12	9+9+12+12	6+9+9+12+18	9+9+9+9+12+12
						12+12+18	9+9+12+18	6+9+9+12+24	9+9+9+12+12+12
						12+12+24	9+9+12+24	6+9+9+18+18	
						12+12+30	9+9+18+18	6+9+12+12+12	
						12+12+36	9+9+18+24	6+9+12+12+18	
						12+18+18	9+12+12+12	6+9+12+12+24	
						12+18+24	9+12+12+18	6+9+12+18+18	
						12+18+30	9+12+12+24	6+12+12+12+12	
						18+18+18	9+12+18+18	6+12+12+12+18	
						6+24+24	9+12+18+24	9+9+9+9+9	
						9+24+24	9+18+18+18	9+9+9+9+12	
						12+24+24	12+12+12+12	9+9+9+9+18	
						18+18+24	12+12+12+18	9+9+9+9+24	
							12+12+12+24	9+9+9+12+12	
							12+12+18+18	9+9+9+12+18	
							6+6+6+30	9+9+9+12+24	
							6+6+6+36	9+9+9+18+18	
							6+6+9+30	9+9+12+12+12	
							6+6+9+36	9+9+12+12+18	
							6+6+12+30	9+12+12+12+12	
							6+6+12+36	9+12+12+12+18	
							6+6+18+30	12+12+12+12+12	

MULTI INDOOR UNITS COMBINATION RULE										
Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)						
				One unit	Two units	Three units	Four units	Five units	Six units	
1 drive 6	MO6EX-H48B-2A (22022316002287)	Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K(should be considered as 24K);	Ducted: 9+9+9+9+9 Non-ducted: 9+9+9+9+12				6+6+24+24	6+6+6+6+30		
							6+9+9+30	6+6+6+6+36		
							6+9+9+36	6+6+6+9+30		
							6+9+12+30	6+6+6+9+36		
							6+9+12+36	6+6+6+12+30		
							6+9+18+30	6+6+9+9+30		
							6+9+24+24	6+6+9+12+30		
							6+18+18+18	6+9+9+9+30		
							9+9+9+30			
							9+9+9+36			
							9+9+12+30			
		When there One Way Cassette in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/One Way Cassette/Low-static Duct/Console/ Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K(should be considered as 24K);	/	30	6+24	6+6+18	6+6+6+6	6+6+6+6+6		
				36	6+30	6+6+24	6+6+6+9	6+6+6+6+9		
					6+36	6+6+30	6+6+6+12	6+6+6+6+12		
					9+18	6+6+36	6+6+6+18	6+6+6+6+18		
					9+24	6+9+12	6+6+6+24	6+6+6+6+24		
					9+30	6+9+18	6+6+9+9	6+6+6+9+9		
					9+36	6+9+24	6+6+9+12	6+6+6+9+12		
					12+12	6+9+30	6+6+9+18	6+6+6+9+18		
					12+18	6+9+36	6+6+9+24	6+6+6+9+24		
					12+24	6+12+18	6+6+12+12	6+6+6+12+12		
					12+30	6+12+24	6+6+12+18	6+6+6+12+18		
					12+36	6+12+30	6+6+12+24	6+6+6+12+24		
					18+18	6+12+36	6+6+18+18	6+6+6+18+18		
					18+24	6+18+18	6+6+18+24	6+6+6+18+24		
					18+30	6+18+24	6+9+9+9	6+6+9+9+9		
					18+36	6+18+30	6+9+9+12	6+6+9+9+12		
					24+24	6+18+36	6+9+9+18	6+6+9+9+18		
					24+30	9+9+9	6+9+9+24	6+6+9+9+24		
					24+36	9+9+12	6+9+12+12	6+6+9+12+12		
						9+9+18	6+9+12+18	6+6+9+12+18		
						9+9+24	6+9+12+24	6+6+9+12+24		
						9+9+30	6+9+18+18	6+6+9+18+18		
						9+9+36	6+9+18+24	6+6+9+18+24		
						9+12+12	6+12+12+12	6+6+12+12+12		
						9+12+18	6+12+12+18	6+6+12+12+18		
						9+12+24	6+12+12+24	6+6+12+12+24		
						9+12+30	6+12+18+18	6+6+12+18+18		
						9+12+36	6+12+18+24	6+9+9+9+9		
						9+18+18	9+9+9+9	6+9+9+9+12		
						9+18+24	9+9+9+12	6+9+9+9+18		
						9+18+30	9+9+9+18	6+9+9+9+24		
						9+18+36	9+9+9+24	6+9+9+12+12		
						12+12+12	9+9+12+12	6+9+9+12+18		
						12+12+18	9+9+12+18	6+9+9+12+24		
						12+12+24	9+9+12+24	6+9+9+18+18		
						12+12+30	9+9+18+18	6+9+12+12+12		
						12+12+36	9+9+18+24	6+9+12+12+18		
						12+18+18	9+12+12+12	6+9+12+12+24		
						12+18+24	9+12+12+18	6+9+12+18+18		
						12+18+30	9+12+12+24	6+12+12+12+12		
						18+18+18	9+12+18+18	6+12+12+12+18		
							9+12+18+24	9+9+9+9+9		
							9+18+18+18	9+9+9+9+12		
							12+12+12+12	9+9+9+9+18		
							12+12+12+18	9+9+9+9+24		
							12+12+12+24	9+9+9+12+12		
							12+12+18+18	9+9+9+12+18		
								9+9+9+12+24		
								9+9+9+18+18		
								9+9+12+12+12		
								9+9+12+12+18		
								9+12+12+12+12		
								9+12+12+12+18		
								12+12+12+12+12		

MULTI INDOOR UNITS COMBINATION RULE									
Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
1 drive 6	MO6EX-H48B-2A (22022316002287)	When there AHU in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K(should be considered as 24K); AHU: 18K/24K/30K/36K	/	30	6+18	6+6+18	6+6+6+18	6+6+6+6+18	6+6+6+6+6+18
				36	6+24	6+6+24	6+6+6+24	6+6+6+6+24	6+6+6+6+9+18
					6+30	6+6+30	6+6+9+18	6+6+6+9+18	6+6+6+9+9+18
					6+36	6+6+36	6+6+9+24	6+6+6+9+24	6+6+9+9+9+18
					9+18	6+9+18	6+6+12+18	6+6+6+12+18	6+9+9+9+9+18
					9+24	6+9+24	6+6+12+24	6+6+6+12+24	9+9+9+9+9+18
					9+30	6+9+30	6+9+9+18	6+9+9+9+18	
					9+36	6+9+36	6+9+9+24	6+9+9+9+24	
					12+18	6+12+18	6+9+12+18	6+9+9+12+18	
					12+24	6+12+24	6+9+12+24	6+9+9+12+24	
					12+30	6+12+30	6+12+12+18	6+9+12+12+18	
					12+36	6+12+36	6+12+12+24	6+9+12+12+24	
					18+18	9+9+18	9+9+9+18	6+12+12+12+18	
					18+24	9+9+24	9+9+9+24	9+9+9+9+18	
					18+30	9+9+30	9+9+12+18	9+9+9+9+24	
					18+36	9+9+36	9+9+12+24	9+9+9+12+24	
					24+24	9+12+18	9+12+12+18	9+9+9+12+18	
					24+30	9+12+24	9+12+12+24	9+9+12+12+18	
					24+36	9+12+30	12+12+12+18	9+12+12+12+18	
						9+12+36	12+12+12+24		
						12+12+18			
						12+12+24			
						12+12+30			
		When there One Way Cassette and AHU both in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/One Way Cassette/Low-static Duct/Console/ Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K(should be considered as 24K); AHU: 18K/24K/30K/36K	/	30	6+18	6+6+18	6+6+6+18	6+6+6+6+18	
				36	6+24	6+6+24	6+6+6+24	6+6+6+6+24	
					6+30	6+6+30	6+6+9+18	6+6+6+9+18	
					6+36	6+6+36	6+6+9+24	6+6+6+9+24	
					9+18	6+9+18	6+6+12+18	6+6+6+12+18	
					9+24	6+9+24	6+6+12+24	6+6+6+12+24	
					9+30	6+9+30	6+9+9+18	6+9+9+9+18	
					9+36	6+9+36	6+9+9+24	6+9+9+9+24	
					12+18	6+12+18	6+9+12+18	6+9+9+12+18	
					12+24	6+12+24	6+9+12+24	6+9+9+12+24	
					12+30	6+12+30	6+12+12+18	6+9+12+12+18	
					12+36	6+12+36	6+12+12+24	6+9+12+12+24	
					18+18	9+9+18	9+9+9+18	6+12+12+12+18	
					18+24	9+9+24	9+9+9+24	9+9+9+9+18	
					18+30	9+9+30	9+9+12+18	9+9+9+9+24	
					18+36	9+9+36	9+9+12+24	9+9+9+12+24	
					24+24	9+12+18	9+12+12+18	9+9+9+12+18	
					24+30	9+12+24	9+12+12+24	9+9+12+12+18	
					24+36	9+12+30	12+12+12+18	9+12+12+12+18	
						9+12+36	12+12+12+24		
						12+12+18			
						12+12+24			
						12+12+30			
		High-static duct (Only): 9K/12K/18K/24K	Ducted: 12+12+12+12	18	9+9	9+9+9	9+9+9+9		
				24	9+12	9+9+12	9+9+9+12		
					9+18	9+9+18	9+9+9+18		
					9+24	9+9+24	9+9+9+24		
					12+12	9+12+12	9+9+12+12		
					12+18	9+12+18	9+9+12+18		
					12+24	9+12+24	9+9+12+24		
					18+18	12+12+12	9+12+12+12		
					18+24	12+12+18	9+12+12+18		
					24+24	12+12+24	9+12+12+24		
							12+12+12+12		
							12+12+12+18		
							12+12+12+24		
1 drive 6	MO6EX-H60B-2A (22022316002286)	Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K (should be considered as 24K);	Non-ducted/Ducted: 9+9+9+9+24	30	6+24	6+6+18	6+6+6+6	6+6+6+6+6	6+6+6+6+6+6
				36	6+30	6+6+24	6+6+6+9	6+6+6+6+9	6+6+6+6+6+9
					6+36	6+6+30	6+6+6+12	6+6+6+6+12	6+6+6+6+6+12
					9+18	6+6+36	6+6+6+18	6+6+6+6+18	6+6+6+6+6+18
					9+24	6+9+9	6+6+6+24	6+6+6+6+24	6+6+6+6+6+24
					9+30	6+9+12	6+6+9+9	6+6+6+9+9	6+6+6+6+9+9
					9+36	6+9+18	6+6+9+12	6+6+6+9+12	6+6+6+6+9+12
					12+12	6+9+24	6+6+9+18	6+6+6+9+18	6+6+6+6+9+18
					12+18	6+9+30	6+6+9+24	6+6+6+9+24	6+6+6+6+9+24
					12+24	6+9+36	6+6+12+12	6+6+6+12+12	6+6+6+6+12+12
					12+30	6+12+12	6+6+12+18	6+6+6+12+18	6+6+6+6+12+18
					12+36	6+12+18	6+6+12+24	6+6+6+12+24	6+6+6+6+12+24
					18+18	6+12+24	6+6+18+18	6+6+6+18+18	6+6+6+9+9+9
					18+24	6+12+30	6+6+18+24	6+6+6+18+24	6+6+6+9+9+12
					18+30	6+12+36	6+9+9+9	6+6+9+9+9	6+6+6+9+9+18
					18+36	6+18+18	6+9+9+12	6+6+9+9+12	6+6+6+9+9+24
					24+24	6+18+24	6+9+9+18	6+6+9+9+18	6+6+6+9+12+12
					24+30	6+18+30	6+9+9+24	6+6+9+9+24	6+6+6+9+12+18

MULTI INDOOR UNITS COMBINATION RULE									
Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
1 drive 6	MO6EX-H60B-2A (22022316002286)	Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K (should be considered as 24K);	Non-ducted/Ducted: 9+9+9+9+24		24+36	6+18+36	6+9+12+12	6+6+9+12+12	6+6+6+9+12+24
					30+30	9+9+9	6+9+12+18	6+6+9+12+18	6+6+6+12+12+12
						9+9+12	6+9+12+24	6+6+9+12+24	6+6+6+12+12+18
						9+9+18	6+9+18+18	6+6+9+18+18	6+6+6+12+12+24
						9+9+24	6+9+18+24	6+6+9+18+24	6+6+9+9+9+9
						9+9+30	6+12+12+12	6+6+12+12+12	6+6+9+9+9+12
						9+9+36	6+12+12+18	6+6+12+12+18	6+6+9+9+9+18
						9+12+12	6+12+12+24	6+6+12+12+24	6+6+9+9+9+24
						9+12+18	6+12+18+18	6+6+12+18+18	6+6+9+9+12+12
						9+12+24	6+12+18+24	6+6+12+18+24	6+6+9+9+12+18
						9+12+30	6+18+18+18	6+6+18+18+18	6+6+9+9+12+24
						9+12+36	6+18+18+24	6+6+18+18+24	6+6+9+12+12+12
						9+18+18	9+9+9+9	6+9+9+9+9	6+6+9+12+12+18
						9+18+24	9+9+9+12	6+9+9+9+12	6+6+9+12+12+24
						9+18+30	9+9+9+18	6+9+9+9+18	6+6+12+12+12+12
						9+18+36	9+9+9+24	6+9+9+9+24	6+6+12+12+12+18
						12+12+12	9+9+12+12	6+9+9+12+12	6+6+12+12+12+24
						12+12+18	9+9+12+18	6+9+9+12+18	6+9+9+9+9+9
						12+12+24	9+9+12+24	6+9+9+12+24	6+9+9+9+9+12
						12+12+30	9+9+18+18	6+9+9+18+18	6+9+9+9+9+18
						12+12+36	9+9+18+24	6+9+9+18+24	6+9+9+9+9+24
						12+18+18	9+12+12+12	6+9+12+12+12	6+9+9+9+12+12
						12+18+24	9+12+12+18	6+9+12+12+18	6+9+9+9+12+18
						12+18+30	9+12+12+24	6+9+12+12+24	6+9+9+9+12+24
						12+18+36	9+12+18+18	6+9+12+18+18	6+9+9+12+12+12
						18+18+18	9+12+18+24	6+9+12+18+24	6+9+9+12+12+18
						18+18+24	9+18+18+18	6+9+18+18+18	6+9+9+12+12+24
						9+24+24	12+12+12+12	6+12+12+12+12	6+9+12+12+12+12
						12+24+24	12+12+12+18	6+12+12+12+18	6+9+12+12+12+18
							12+12+12+24	6+12+12+12+24	6+12+12+12+12+12
							12+12+18+18	6+12+12+18+18	6+12+12+12+12+18
							12+12+18+24	6+12+18+18+18	9+9+9+9+9+9
							12+18+18+18	9+9+9+9+9	9+9+9+9+9+12
							6+6+6+30	9+9+9+9+12	9+9+9+9+9+18
							6+6+6+36	9+9+9+9+18	9+9+9+9+9+24
							6+6+9+30	9+9+9+9+24	9+9+9+9+12+12
							6+6+9+36	9+9+9+12+12	9+9+9+9+12+18
							6+6+12+30	9+9+9+12+18	9+9+9+9+12+24
							6+6+12+36	9+9+9+12+24	9+9+9+12+12+12
							6+6+18+30	9+9+9+18+18	9+9+9+12+12+18
							6+6+24+24	9+9+9+18+24	9+9+12+12+12+12
							6+9+9+30	9+9+12+12+12	9+9+12+12+12+18
							6+9+9+36	9+9+12+12+18	9+12+12+12+12+12
							6+9+12+30	9+9+12+12+24	12+12+12+12+12+12
								9+9+12+18+18	
								9+9+12+18+24	
								9+9+18+18+18	
								9+12+12+12+12	
								9+12+12+12+18	
								9+12+12+12+24	
								9+12+12+18+18	
								12+12+12+12+12	
								12+12+12+12+18	
								12+12+12+12+24	
								12+12+12+18+18	
		When there One Way Cassette in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/One Way Cassette/Low-static Duct/Console/ Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K(should be considered as 24K);	/	30	6+24	6+6+18	6+6+6+6	6+6+6+6+6	
				36	6+30	6+6+24	6+6+6+9	6+6+6+6+9	
					6+36	6+6+30	6+6+6+12	6+6+6+6+12	
					9+18	6+6+36	6+6+6+18	6+6+6+6+18	
					9+24	6+9+9	6+6+6+24	6+6+6+6+24	
					9+30	6+9+12	6+6+9+9	6+6+6+9+9	
					9+36	6+9+18	6+6+9+12	6+6+6+9+12	
					12+12	6+9+24	6+6+9+18	6+6+6+9+18	
					12+18	6+9+30	6+6+9+24	6+6+6+9+24	
					12+24	6+9+36	6+6+12+12	6+6+6+12+12	
					12+30	6+12+12	6+6+12+18	6+6+6+12+18	
					12+36	6+12+18	6+6+12+24	6+6+6+12+24	
					18+18	6+12+24	6+6+18+18	6+6+6+18+18	
					18+24	6+12+30	6+6+18+24	6+6+6+18+24	
					18+30	6+12+36	6+9+9+9	6+6+9+9+9	
					18+36	6+18+18	6+9+9+12	6+6+9+9+12	
					24+24	6+18+24	6+9+9+18	6+6+9+9+18	
					24+30	6+18+30	6+9+9+24	6+6+9+9+24	
					24+36	6+18+36	6+9+12+12	6+6+9+12+12	
						9+9+9	6+9+12+18	6+6+9+12+18	
						9+9+12	6+9+12+24	6+6+9+12+24	
						9+9+18	6+9+18+18	6+6+9+18+18	
						9+9+24	6+9+18+24	6+6+9+18+24	
						9+9+30	6+12+12+12	6+6+12+12+12	
						9+9+36	6+12+12+18	6+6+12+12+18	
						9+12+12	6+12+12+24	6+6+12+12+24	

MULTI INDOOR UNITS COMBINATION RULE									
Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
1 drive 6	MO6EX-H60B-2A (22022316002286)	When there One Way Cassette in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/One Way Cassette/Low-static Duct/Console/ Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K(should be considered as 24K);	/			9+12+18	6+12+18+18	6+6+12+18+18	
						9+12+24	6+12+18+24	6+6+12+18+24	
						9+12+30	6+18+18+18	6+6+18+18+18	
						9+12+36	6+18+18+24	6+6+18+18+24	
						9+18+18	9+9+9+9	6+9+9+9+9	
						9+18+24	9+9+9+12	6+9+9+9+12	
						9+18+30	9+9+9+18	6+9+9+9+18	
						9+18+36	9+9+9+24	6+9+9+9+24	
						12+12+12	9+9+12+12	6+9+9+12+12	
						12+12+18	9+9+12+18	6+9+9+12+18	
						12+12+24	9+9+12+24	6+9+9+12+24	
						12+12+30	9+9+18+18	6+9+9+18+18	
						12+12+36	9+9+18+24	6+9+9+18+24	
						12+18+18	9+12+12+12	6+9+12+12+12	
						12+18+24	9+12+12+18	6+9+12+12+18	
						12+18+30	9+12+12+24	6+9+12+12+24	
						12+18+36	9+12+18+18	6+9+12+18+18	
						18+18+18	9+12+18+24	6+9+12+18+24	
						18+18+24	9+18+18+18	6+9+18+18+18	
							12+12+12+12	6+12+12+12+12	
							12+12+12+18	6+12+12+12+18	
							12+12+12+24	6+12+12+12+24	
							12+12+18+18	6+12+12+18+18	
							12+12+18+24	6+12+18+18+18	
							12+18+18+18	9+9+9+9+9	
								9+9+9+9+12	
								9+9+9+9+18	
								9+9+9+9+24	
								9+9+9+12+12	
								9+9+9+12+18	
								9+9+9+12+24	
								9+9+9+18+18	
								9+9+9+18+24	
								9+9+12+12+12	
								9+9+12+12+18	
								9+9+12+12+24	
								9+9+12+18+18	
								9+9+12+18+24	
								9+9+18+18+18	
								9+12+12+12+12	
								9+12+12+12+18	
								9+12+12+12+24	
								9+12+12+18+18	
								12+12+12+12+12	
								12+12+12+12+18	
								12+12+12+12+24	
								12+12+12+18+18	
		When there AHU in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K(should be considered as 24K); AHU: 18K/24K/30K/36K	/	30	6+18	6+6+18	6+6+6+18	6+6+6+6+18	6+6+6+6+6+18
				36	6+24	6+6+24	6+6+6+24	6+6+6+6+9+18	
					6+30	6+6+30	6+6+9+18	6+6+6+12+18	6+6+6+9+9+18
					6+36	6+6+36	6+6+9+24	6+6+6+12+24	6+9+9+9+9+18
					9+18	6+9+18	6+6+12+18	6+9+9+9+18	9+9+9+9+9+18
					9+24	6+9+24	6+6+12+24	6+9+9+9+24	
					9+30	6+9+30	6+9+9+18	6+9+9+12+18	
					9+36	6+9+36	6+9+9+24	6+9+9+12+24	
					12+18	6+12+18	6+9+12+18	6+9+12+12+18	
					12+24	6+12+24	6+9+12+24	6+9+12+12+24	
					12+30	6+12+30	6+12+12+18	6+12+12+12+18	
					12+36	6+12+36	6+12+12+24	9+9+9+9+18	
					18+18	9+9+18	9+9+9+18	9+9+9+9+24	
					18+24	9+9+24	9+9+9+24	9+9+9+12+24	
					18+30	9+9+30	9+9+12+18	9+9+9+12+18	
					18+36	9+9+36	9+9+12+24	9+9+12+12+18	
					24+24	9+12+18	9+12+12+18	9+12+12+12+18	
					24+30	9+12+24	9+12+12+24		
					24+36	9+12+30	12+12+12+18		
						9+12+36	12+12+12+24		
						12+12+18			
						12+12+24			
						12+12+30			
		When there One Way Cassette and AHU both in the combination: Wall mounted(AG/EP/AB): 6K/9K/12K/18K/24K/30K/36K; Cassette/One Way Cassette/Low-static Duct/Console/ Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K(should be considered as 24K); AHU: 18K/24K/30K/36K	/	30	6+18	6+6+18	6+6+6+18	6+6+6+6+18	
				36	6+24	6+6+24	6+6+6+24	6+6+6+6+24	
					6+30	6+6+30	6+6+9+18	6+6+6+12+18	
					6+36	6+6+36	6+6+9+24	6+6+6+12+24	
					9+18	6+9+18	6+6+12+18	6+9+9+9+18	

MULTI INDOOR UNITS COMBINATION RULE									
Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
1 drive 6	MO6EX-H60B-2A (22022316002286)	When there One Way Cassette and AHU both in the combination: Wall mounted(AG/EP/AB): 6K/9K/12K/18K/24K/30K/36K; Cassette/One Way Cassette/Low-static Duct/Console/ Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K(should be considered as 24K); AHU: 18K/24K/30K/36K	/		9+24	6+9+24	6+6+12+24	6+9+9+9+24	
					9+30	6+9+30	6+9+9+18	6+9+9+12+18	
					9+36	6+9+36	6+9+9+24	6+9+9+12+24	
					12+18	6+12+18	6+9+12+18	6+9+12+12+18	
					12+24	6+12+24	6+9+12+24	6+9+12+12+24	
					12+30	6+12+30	6+12+12+18	6+12+12+12+18	
					12+36	6+12+36	6+12+12+24	9+9+9+9+18	
					18+18	9+9+18	9+9+9+18	9+9+9+9+24	
					18+24	9+9+24	9+9+9+24	9+9+9+12+24	
					18+30	9+9+30	9+9+12+18	9+9+9+12+18	
					18+36	9+9+36	9+9+12+24	9+9+12+12+18	
					24+24	9+12+18	9+12+12+18	9+12+12+12+18	
					24+30	9+12+24	9+12+12+24		
					24+36	9+12+30	12+12+12+18		
						9+12+36	12+12+12+24		
						12+12+18			
						12+12+24			
						12+12+30			
		High-static duct (Only): 9K/12K/18K/24K	Ducted: 9+12+12+12+12	18	9+9	9+9+9	9+9+9+9	9+9+9+9+9	
				24	9+12	9+9+12	9+9+9+12	9+9+9+9+12	
					9+18	9+9+18	9+9+9+18	9+9+9+12+12	
					9+24	9+9+24	9+9+9+24	9+9+12+12+12	
					12+12	9+12+12	9+9+12+12	9+12+12+12+12	
					12+18	9+12+18	9+9+12+18	12+12+12+12+12	
					12+24	9+12+24	9+9+12+24		
					18+18	12+12+12	9+12+12+12		
					18+24	12+12+18	9+12+12+18		
					24+24	12+12+24	9+12+12+24		
							12+12+12+12		
							12+12+12+18		
							12+12+12+24		
Note:	1. If total indoor units load exceeds nominal capacity of outdoor unit, the practical output capacity of every indoor unit will be correspondingly attenuated. This situation is very evidently during heating mode. 2. If the size of the indoor units are the same, the combinations of small indoor units can be applied to same size units. (For example, the size of 9K and 12K EP are the same, so the 12K unit can be considered as 9K and applied to the combinations of 9K units.) 3. For most efficient 12K EP, it should be considerde as 18K unit in combination chart because it has the same size with regular 18K EP. 4. For AHU series: a, Fan of AHU will stop (follow me On) or intermittently running (follow me Off) when reaches its setting temperature; b, When connecting to a third-party thermostat via a 24V connection, if the AHU has no heating demand, the fan ON command from the thermostat will be ineffective and the fan will not turn on; c, System will start running when AHU receive emergency heating demand;								

Xtreme Heat Multi Indoor Units Combination Rule

Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
Xtreme 1 drive 3	MO3HX-H18B-2A (22022316002305)	Wall mounted: 6K/9K/12K/18K/24K; Cassette/One Way Cassette/Low-static Duct/ Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K(should be considered as 24K);	Non-ducted/Ducted: 6+6+6	18	6+6	6+6+6			
				24	6+9	6+6+9			
					6+12	6+6+12			
					6+18	6+6+18			
					6+24	6+6+24			
					9+9	6+9+9			
					9+12	6+9+12			
					9+18	6+9+18			
					9+24	6+12+12			
					12+12	6+12+18			
					12+18	9+9+9			
					12+24	9+9+12			
					18+18	9+9+18			
						9+12+12			
						12+12+12			
		When there One Way Cassette in the combination: Wall mounted: 6K/9K/12K/18K/24K; Cassette/One Way Cassette/Low-static Duct/ Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K(should be considered as 24K);	/	18	6+6				
				24	6+9				
					6+12				
					6+18				
					6+24				
					9+9				
					9+12				
					9+18				
					9+24				
					12+12				
					12+18				
					12+24				
					18+18				
		When there AHU in the combination: Wall mounted: 6K/9K/12K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K(should be considered as 24K); AHU: 18K/24K	/	18	6+18	6+6+18			
				24	9+18	6+9+18			
					12+18	9+9+18			
		When there One Way Cassette and AHU both in the combination: Wall mounted: 6K/9K/12K; Cassette/One Way Cassette/Low-static Duct/ Console/Floor Ceiling: 6K/9K/12K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K(should be considered as 24K); AHU: 18K/24K	/	18	6+18				
				24	9+18				
					12+18				
		High-static duct (Only): 9K/12K/18K/24K	Ducted: 9+9	9	9+9				
				12	9+12				
				18	9+18				
				24	9+24				
					12+12				
					12+18				
					12+24				
Xtreme 1 drive 4	MO4HX-H27B-2A (22022316002365)	Wall mounted: 6K/9K/12K/18K/24K/30K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K(should be considered as 24K);	Non-ducted/Ducted: 6+6+6+9	24	6+18	6+6+6	6+6+6+6		
				30	6+24	6+6+9	6+6+6+9		
					9+9	6+6+12	6+6+6+12		
					9+12	6+6+18	6+6+6+18		
					9+18	6+6+24	6+6+6+24		
					9+24	6+9+9	6+6+9+9		
					12+12	6+9+12	6+6+9+12		
					12+18	6+9+18	6+6+9+18		
					12+24	6+9+24	6+6+9+24		
					18+18	6+12+12	6+6+12+12		
						6+12+18	6+6+12+18		
						6+12+24	6+6+12+24		
						6+18+18	6+6+18+18		
						6+18+24	6+9+9+9		
						9+9+9	6+9+9+12		
						9+9+12	6+9+9+18		
						9+9+18	6+9+9+24		
						9+9+24	6+9+12+12		
						9+12+12	6+9+12+18		
						9+12+18	6+12+12+12		
						9+12+24	6+12+12+18		
						9+18+18	9+9+9+9		
						12+12+12	9+9+9+12		
						12+12+18	9+9+9+18		
						12+12+24	9+9+12+12		
						12+18+18	9+9+12+18		
							9+12+12+12		
							12+12+12+12		

Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
Xtreme 1 drive 4	MO4HX-H27B-2A (22022316002365)	When there One Way Cassette in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K; Cassette/One Way Cassette/Low-static Duct/ Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K);	/	24	6+18	6+6+6			
				30	6+24	6+6+9			
					9+9	6+6+12			
					9+12	6+6+18			
					9+18	6+6+24			
					9+24	6+9+9			
					12+12	6+9+12			
					12+18	6+9+18			
					12+24	6+9+24			
					18+18	6+12+12			
						6+12+18			
						6+12+24			
						6+18+18			
						6+18+24			
						9+9+9			
						9+9+12			
						9+9+18			
						9+9+24			
						9+12+12			
						9+12+18			
						9+12+24			
						9+18+18			
						12+12+12			
						12+12+18			
						12+12+24			
						12+18+18			
		When there AHU in the combination: Wall mounted: 6K/9K/12K/18K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K; High-static duct: 9K/12K(should be considered as 18K); 18K/24K(should be considered as 24K); AHU: 18K/24K/30K	/	24	6+18	6+6+18	6+6+6+18		
				30	6+24	6+6+24	6+6+6+24		
					9+18	6+9+18	6+6+9+18		
					9+24	6+9+24	6+6+9+24		
					12+18	6+12+18	6+9+9+18		
					12+24	6+12+24	6+9+9+24		
					18+18	9+9+18	9+9+9+18		
						9+9+24			
						9+12+18			
						9+12+24			
						12+12+18			
						12+12+24			
		When there One Way Cassette and AHU both in the combination: Wall mounted: 6K/9K/12K/18K; Cassette/One Way Cassette/Low-static Duct/ Console/Floor Ceiling: 6K/9K/12K/18K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K); AHU: 18K/24K/30K	/	24	6+18	6+6+18			
				30	6+24	6+6+24			
					9+18	6+9+18			
					9+24	6+9+24			
					12+18	6+12+18			
					12+24	6+12+24			
					18+18	9+9+18			
						9+9+24			
						9+12+18			
						9+12+24			
						12+12+18			
						12+12+24			
		High-static duct(Only): 9K/12K/18K/24K	Ducted: 9+9+9	18	9+9	9+9+9			
				24	9+12	9+9+12			
					9+18	9+9+18			
					9+24	9+9+24			
					12+12	9+12+12			
					12+18	9+12+18			
					12+24	9+12+24			
						12+12+12			
						12+12+18			
						12+12+24			

Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
Xtreme 1 drive 5	MO5HX-H36B-2A (22022316002366)	Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K);	Non-ducted/Ducted: 6+6+6+9+9	30	6+24	6+6+12	6+6+6+6	6+6+6+6+6	
				36	6+30	6+6+18	6+6+6+9	6+6+6+6+9	
					6+36	6+6+24	6+6+6+12	6+6+6+6+12	
					9+18	6+6+30	6+6+6+18	6+6+6+6+18	
					9+24	6+6+36	6+6+6+24	6+6+6+9+9	
					9+30	6+9+9	6+6+9+9	6+6+6+9+12	
					9+36	6+9+12	6+6+9+12	6+6+6+9+18	
					12+12	6+9+18	6+6+9+18	6+6+6+12+12	
					12+18	6+9+24	6+6+9+24	6+6+6+12+18	
					12+24	6+9+30	6+6+12+12	6+6+9+9+9	
					12+30	6+12+12	6+6+12+18	6+6+9+9+12	
					12+36	6+12+18	6+6+12+24	6+6+9+9+18	
					18+18	6+12+24	6+6+18+18	6+6+9+12+12	
					18+24	6+12+30	6+6+18+24	6+6+12+12+12	
					18+30	6+18+18	6+9+9+9	6+9+9+9+9	
					24+24	6+18+24	6+9+9+12	6+9+9+9+12	
						9+9+9	6+9+9+18	6+9+9+12+12	
						9+9+12	6+9+9+24	9+9+9+9+9	
						9+9+18	6+9+12+12	9+9+9+9+12	
						9+9+24	6+9+12+18		
						9+9+30	6+9+12+24		
						9+12+12	6+9+18+18		
						9+12+18	6+9+18+24		
						9+12+24	6+12+12+12		
						9+18+18	6+12+12+18		
						9+18+24	6+12+12+24		
						12+12+12	6+12+18+18		
						12+12+18	6+12+18+24		
						12+12+24	6+18+18+18		
						12+18+18	9+9+9+9		
						12+18+24	9+9+9+12		
						18+18+18	9+9+9+18		
						6+24+24	9+9+9+24		
						9+24+24	9+9+12+12		
						12+24+24	9+9+12+18		
							9+9+12+24		
							9+9+18+18		
							9+9+18+24		
							9+12+12+12		
							9+12+12+18		
							9+12+12+24		
							9+12+18+18		
							9+18+18+18		
							12+12+12+12		
							12+12+12+18		
							12+12+12+24		
							12+12+18+18		
							6+6+6+30		
							6+6+6+36		
							6+6+9+30		
							6+6+9+36		
							6+6+18+30		
							6+6+24+24		
							6+9+9+30		
							6+9+9+36		
							6+9+12+30		
							6+9+12+36		
							6+9+18+30		
							6+12+12+30		

Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
Xtreme 1 drive 5	MO5HX-H36B-2A (22022316002366)	When there One Way Cassette in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/One Way Cassette/Low-static Duct/ Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K);	/	30	6+24	6+6+12	6+6+6+6		
				36	6+30	6+6+18	6+6+6+9		
					6+36	6+6+24	6+6+6+12		
					9+18	6+6+30	6+6+6+18		
					9+24	6+6+36	6+6+6+24		
					9+30	6+9+9	6+6+9+9		
					9+36	6+9+12	6+6+9+12		
					12+12	6+9+18	6+6+9+18		
					12+18	6+9+24	6+6+9+24		
					12+24	6+9+30	6+6+12+12		
					12+30	6+12+12	6+6+12+18		
					12+36	6+12+18	6+6+12+24		
					18+18	6+12+24	6+6+18+18		
					18+24	6+12+30	6+6+18+24		
					18+30	6+18+18	6+9+9+9		
					24+24	6+18+24	6+9+9+12		
						9+9+9	6+9+9+18		
						9+9+12	6+9+9+24		
						9+9+18	6+9+12+12		
						9+9+24	6+9+12+18		
						9+9+30	6+9+12+24		
						9+12+12	6+9+18+18		
						9+12+18	6+9+18+24		
						9+12+24	6+12+12+12		
						9+18+18	6+12+12+18		
						9+18+24	6+12+12+24		
						12+12+12	6+12+18+18		
						12+12+18	6+12+18+24		
						12+12+24	6+18+18+18		
						12+18+18	9+9+9+9		
						12+18+24	9+9+9+12		
						18+18+18	9+9+9+18		
							9+9+9+24		
							9+9+12+12		
							9+9+12+18		
							9+9+12+24		
							9+9+18+18		
							9+9+18+24		
							9+12+12+12		
							9+12+12+18		
							9+12+12+24		
							9+12+18+18		
							9+18+18+18		
							12+12+12+12		
							12+12+12+18		
							12+12+12+24		
							12+12+18+18		
		When there AHU in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K); AHU: 18K/24K/30K/36K	/	30	6+18	6+6+18	6+6+6+18	6+6+6+6+18	
				36	6+24	6+6+24	6+6+6+24	6+6+6+9+18	
					6+30	6+6+30	6+6+9+18	6+6+9+9+18	
					6+36	6+6+36	6+6+9+24		
					9+18	6+9+18	6+6+12+18		
					9+24	6+9+24	6+6+12+24		
					9+30	6+9+30	6+9+9+18		
					9+36	6+12+18	6+9+9+24		
					12+18	6+12+24	6+9+12+18		
					12+24	6+12+30	6+9+12+24		
					12+30	9+9+18	6+12+12+18		
					12+36	9+9+24	6+12+12+24		
					18+18	9+9+30	9+9+9+18		
					18+24	9+12+18	9+9+9+24		
					18+30	9+12+24	9+9+12+18		
					24+24	12+12+18	9+9+12+24		
						12+12+24	9+12+12+18		
							9+12+12+24		
							12+12+12+18		
							12+12+12+24		

Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
Xtreme 1 drive 5	MO5HX-H36B-2A (22022316002366)	When there One Way Cassette and AHU both in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/One Way Cassette/Low-static Duct/ Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K); AHU: 18K/24K/30K/36K	/	30	6+18	6+6+18	6+6+6+18		
				36	6+24	6+6+24	6+6+6+24		
					6+30	6+6+30	6+6+9+18		
					6+36	6+6+36	6+6+9+24		
					9+18	6+9+18	6+6+12+18		
					9+24	6+9+24	6+6+12+24		
					9+30	6+9+30	6+9+9+18		
					9+36	6+12+18	6+9+9+24		
					12+18	6+12+24	6+9+12+18		
					12+24	6+12+30	6+9+12+24		
					12+30	9+9+18	6+12+12+18		
					12+36	9+9+24	6+12+12+24		
					18+18	9+9+30	9+9+9+18		
					18+24	9+12+18	9+9+9+24		
					18+30	9+12+24	9+9+12+18		
					24+24	12+12+18	9+9+12+24		
						12+12+24	9+12+12+18		
							9+12+12+24		
							12+12+12+18		
							12+12+12+24		
		High-static duct (Only): 9K/12K/18K/24K	Ducted: 9+9+9+9	18	9+9	9+9+9	9+9+9+9		
				24	9+12	9+9+12	9+9+9+12		
					9+18	9+9+18	9+9+9+18		
					9+24	9+9+24	9+9+9+24		
					12+12	9+12+12	9+9+12+12		
					12+18	9+12+18	9+9+12+18		
					12+24	9+12+24	9+9+12+24		
					18+18	12+12+12	9+12+12+12		
					18+24	12+12+18	9+12+12+18		
					24+24	12+12+24	9+12+12+24		
							12+12+12+12		
							12+12+12+18		
							12+12+12+24		
1 drive 6	MO6HX-H48B-2A (22022316002265) MO6HX-H60B-2A (22022316002285)	Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K): 18K/24K (should be considered as 24K);	48K Non-ducted/Ducted: 9+9+9+9+12 53K Non-ducted: 6+6+6+9+24 53K Ducted: 6+6+9+9+24	30	6+24	6+6+18	6+6+6+6	6+6+6+6+6	6+6+6+6+6+6
				36	6+30	6+6+24	6+6+6+9	6+6+6+6+9	6+6+6+6+6+9
					6+36	6+6+30	6+6+6+12	6+6+6+6+12	6+6+6+6+6+12
					9+18	6+6+36	6+6+6+18	6+6+6+6+18	6+6+6+6+6+18
					9+24	6+9+9	6+6+6+24	6+6+6+6+24	6+6+6+6+6+24
					9+30	6+9+12	6+6+9+9	6+6+6+9+9	6+6+6+6+9+9
					9+36	6+9+18	6+6+9+12	6+6+6+9+12	6+6+6+6+9+12
					12+12	6+9+24	6+6+9+18	6+6+6+9+18	6+6+6+6+9+18
					12+18	6+9+30	6+6+9+24	6+6+6+9+24	6+6+6+6+9+24
					12+24	6+9+36	6+6+12+12	6+6+6+12+12	6+6+6+6+12+12
					12+30	6+12+12	6+6+12+18	6+6+6+12+18	6+6+6+6+12+18
					12+36	6+12+18	6+6+12+24	6+6+6+12+24	6+6+6+6+12+24
					18+18	6+12+24	6+6+18+18	6+6+6+18+18	6+6+6+9+9+9
					18+24	6+12+30	6+6+18+24	6+6+6+18+24	6+6+6+9+9+12
					18+30	6+12+36	6+9+9+9	6+6+9+9+9	6+6+6+9+9+18
					18+36	6+18+18	6+9+9+12	6+6+9+9+12	6+6+6+9+9+24
					24+24	6+18+24	6+9+9+18	6+6+9+9+18	6+6+6+9+12+12
					24+30	6+18+30	6+9+9+24	6+6+9+9+24	6+6+6+9+12+18
					24+36	6+18+36	6+9+12+12	6+6+9+12+12	6+6+6+9+12+24
						9+9+9	6+9+12+18	6+6+9+12+18	6+6+6+12+12+12
						9+9+12	6+9+12+24	6+6+9+12+24	6+6+6+12+12+18
						9+9+18	6+9+18+18	6+6+9+18+18	6+6+6+12+12+24
						9+9+24	6+9+18+24	6+6+9+18+24	6+6+9+9+9+9
						9+9+30	6+12+12+12	6+6+12+12+12	6+6+9+9+9+12
						9+9+36	6+12+12+18	6+6+12+12+18	6+6+9+9+9+18
						9+12+12	6+12+12+24	6+6+12+12+24	6+6+9+9+9+24
						9+12+18	6+12+18+18	6+6+12+18+18	6+6+9+9+12+12
						9+12+24	6+12+18+24	6+6+12+18+24	6+6+9+9+12+18
						9+12+30	6+18+18+18	6+6+18+18+18	6+6+9+9+12+24
						9+12+36	6+18+18+24	6+6+18+18+24	6+6+9+12+12+12
						9+18+18	9+9+9+9	6+9+9+9+9	6+6+9+12+12+18
						9+18+24	9+9+9+12	6+9+9+9+12	6+6+9+12+12+24
						9+18+30	9+9+9+18	6+9+9+9+18	6+6+12+12+12+12
						9+18+36	9+9+9+24	6+9+9+9+24	6+6+12+12+12+18
						12+12+12	9+9+12+12	6+9+9+12+12	6+6+12+12+12+24
						12+12+18	9+9+12+18	6+9+9+12+18	6+9+9+9+9+9
						12+12+24	9+9+12+24	6+9+9+12+24	6+9+9+9+9+12
						12+12+30	9+9+18+18	6+9+9+18+18	6+9+9+9+9+18
						12+12+36	9+9+18+24	6+9+9+18+24	6+9+9+9+9+24
						12+18+18	9+12+12+12	6+9+12+12+12	6+9+9+9+12+12
						12+18+24	9+12+12+18	6+9+12+12+18	6+9+9+9+12+18
						12+18+30	9+12+12+24	6+9+12+12+24	6+9+9+9+12+24
						12+18+36	9+12+18+18	6+9+12+18+18	6+9+9+12+12+12

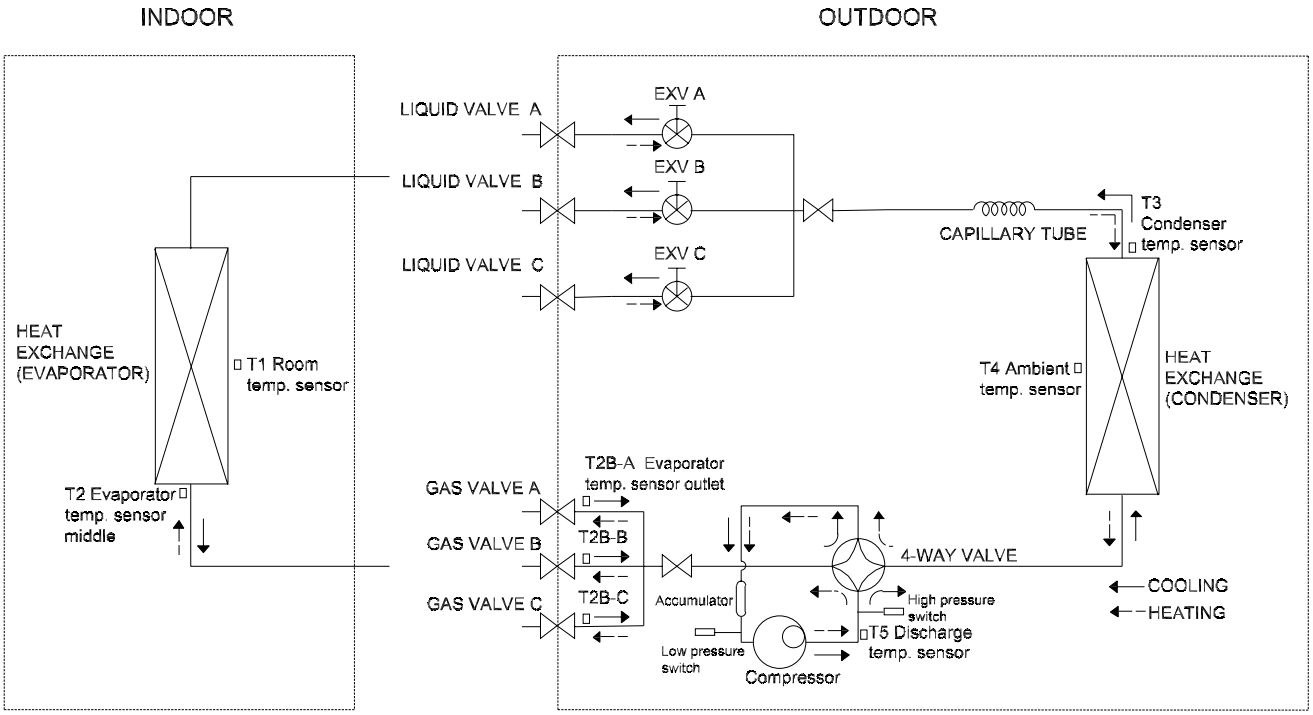
Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
1 drive 6	MO6HX-H48B-2A (22022316002265) MO6HX-H60B-2A (22022316002285)	Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K): 18K/24K (should be considered as 24K);	48K Non-ducted/Ducted: 9+9+9+9+12 53K Non-ducted: 6+6+6+9+24 53K Ducted: 6+6+9+9+24			18+18+18	9+12+18+24	6+9+12+18+24	6+9+9+12+12+18
						18+18+24	9+18+18+18	6+9+18+18+18	6+9+9+12+12+24
						9+24+24	12+12+12+12	6+12+12+12+12	6+9+12+12+12+12
						12+24+24	12+12+12+18	6+12+12+12+18	6+9+12+12+12+18
							12+12+12+24	6+12+12+12+24	6+12+12+12+12+12
							12+12+18+18	6+12+12+18+18	6+12+12+12+12+18
							12+12+18+24	6+12+18+18+18	9+9+9+9+9+9
							12+18+18+18	9+9+9+9+9	9+9+9+9+9+12
							6+9+24+24	9+9+9+9+12	9+9+9+9+9+18
							6+9+12+36	9+9+9+9+18	9+9+9+9+9+24
							6+9+18+30	9+9+9+9+24	9+9+9+9+12+12
							6+6+24+24	9+9+9+12+12	9+9+9+9+12+18
							6+9+9+30	9+9+9+12+18	9+9+9+9+12+24
							6+9+9+36	9+9+9+12+24	9+9+9+12+12+12
							6+9+12+30	9+9+9+18+18	9+9+9+12+12+18
							6+9+12+36	9+9+9+18+24	9+9+12+12+12+12
							6+9+18+30	9+9+12+12+12	9+9+12+12+12+18
							6+9+24+24	9+9+12+12+18	9+12+12+12+12+12
							6+12+12+30	9+9+12+12+24	12+12+12+12+12+12
							6+12+12+36	9+9+12+18+18	
							6+6+18+30	9+9+12+18+24	
							6+6+24+24	9+9+18+18+18	
							6+9+9+30	9+12+12+12+12	
							6+9+9+36	9+12+12+12+18	
							6+9+12+30	9+12+12+12+24	
							6+9+12+36	9+12+12+18+18	
							6+9+18+30	12+12+12+12+12	
							6+12+12+30	12+12+12+12+18	
							9+9+9+30	12+12+12+12+24	
							9+9+9+36	12+12+12+18+18	
							9+9+12+30	6+6+6+6+30	
								6+6+6+6+36	
								6+6+6+9+30	
								6+6+6+9+36	
								6+6+6+12+30	
								6+6+9+9+30	
								6+6+9+12+30	
								6+9+9+9+30	
		When there One Way Cassette in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/One Way Cassette/Low-static Duct/ Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K(should be considered as 24K);	/	30	6+24	6+6+18	6+6+6+6	6+6+6+6+6	
				36	6+30	6+6+24	6+6+6+9	6+6+6+6+9	
					6+36	6+6+30	6+6+6+12	6+6+6+6+12	
					9+18	6+6+36	6+6+6+18	6+6+6+6+18	
					9+24	6+9+9	6+6+6+24	6+6+6+6+24	
					9+30	6+9+12	6+6+9+9	6+6+6+9+9	
					9+36	6+9+18	6+6+9+12	6+6+6+9+12	
					12+12	6+9+24	6+6+9+18	6+6+6+9+18	
					12+18	6+9+30	6+6+9+24	6+6+6+9+24	
					12+24	6+9+36	6+6+12+12	6+6+6+12+12	
					12+30	6+12+12	6+6+12+18	6+6+6+12+18	
					12+36	6+12+18	6+6+12+24	6+6+6+12+24	
					18+18	6+12+24	6+6+18+18	6+6+6+18+18	
					18+24	6+12+30	6+6+18+24	6+6+6+18+24	
					18+30	6+12+36	6+9+9+9	6+6+9+9+9	
					18+36	6+18+18	6+9+9+12	6+6+9+9+12	
					24+24	6+18+24	6+9+9+18	6+6+9+9+18	
					24+30	6+18+30	6+9+9+24	6+6+9+9+24	
					24+36	6+18+36	6+9+12+12	6+6+9+12+12	
						9+9+9	6+9+12+18	6+6+9+12+18	
						9+9+12	6+9+12+24	6+6+9+12+24	
						9+9+18	6+9+18+18	6+6+9+18+18	
						9+9+24	6+9+18+24	6+6+9+18+24	
						9+9+30	6+12+12+12	6+6+12+12+12	
						9+9+36	6+12+12+18	6+6+12+12+18	
						9+12+12	6+12+12+24	6+6+12+12+24	
						9+12+18	6+12+18+18	6+6+12+18+18	
						9+12+24	6+12+18+24	6+6+12+18+24	
						9+12+30	6+18+18+18	6+6+18+18+18	
						9+12+36	6+18+18+24	6+6+18+18+24	
						9+18+18	9+9+9+9	6+9+9+9+9	
						9+18+24	9+9+9+12	6+9+9+9+12	
						9+18+30	9+9+9+18	6+9+9+9+18	
						9+18+36	9+9+9+24	6+9+9+9+24	
						12+12+12	9+9+12+12	6+9+9+12+12	
						12+12+18	9+9+12+18	6+9+9+12+18	
						12+12+24	9+9+12+24	6+9+9+12+24	
						12+12+30	9+9+18+18	6+9+9+18+18	
						12+12+36	9+9+18+24	6+9+9+18+24	
						12+18+18	9+12+12+12	6+9+12+12+12	
						12+18+24	9+12+12+18	6+9+12+12+18	
						12+18+30	9+12+12+24	6+9+12+12+24	
						12+18+36	9+12+18+18	6+9+12+18+18	
						18+18+18	9+12+18+24	6+9+12+18+24	
						18+18+24	9+18+18+18	6+9+18+18+18	

Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
1 drive 6	MO6HX-H48B-2A (22022316002265) MO6HX-H60B-2A (22022316002285)	When there One Way Cassette in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/One Way Cassette/Low-static Duct/ Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K(should be considered as 24K);	/				12+12+12+12	6+12+12+12+12	
							12+12+12+18	6+12+12+12+18	
							12+12+12+24	6+12+12+12+24	
							12+12+18+18	6+12+12+18+18	
							12+12+18+24	6+12+18+18+18	
							12+18+18+18	9+9+9+9+9	
								9+9+9+9+12	
								9+9+9+9+18	
								9+9+9+9+24	
								9+9+9+12+12	
								9+9+9+12+18	
								9+9+9+12+24	
								9+9+9+18+18	
								9+9+9+18+24	
								9+9+12+12+12	
								9+9+12+12+18	
								9+9+12+12+24	
								9+9+12+18+18	
								9+9+12+18+24	
								9+9+18+18+18	
								9+12+12+12+12	
								9+12+12+12+18	
								9+12+12+12+24	
								9+12+12+18+18	
								12+12+12+12+12	
								12+12+12+12+18	
								12+12+12+12+24	
								12+12+12+18+18	
		When there AHU in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/Low-static Duct/Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K); AHU:18K/24K/30K/36K	/	30	6+18	6+6+18	6+6+6+18	6+6+6+6+18	6+6+6+6+6+18
				36	6+24	6+6+24	6+6+6+24	6+6+6+6+24	6+6+6+6+9+18
					6+30	6+6+30	6+6+9+18	6+6+6+12+18	6+6+6+9+9+18
					6+36	6+6+36	6+6+9+24	6+6+6+12+24	6+6+9+9+9+18
					9+18	6+9+18	6+6+12+18	6+9+9+9+18	6+9+9+9+9+18
					9+24	6+9+24	6+6+12+24	6+9+9+9+24	9+9+9+9+9+18
					9+30	6+9+30	6+9+9+18	6+9+9+12+18	
					9+36	6+9+36	6+9+9+24	6+9+9+12+24	
					12+18	6+12+18	6+9+12+18	6+9+12+12+18	
					12+24	6+12+24	6+9+12+24	6+9+12+12+24	
					12+30	6+12+30	6+12+12+18	6+12+12+12+18	
					12+36	6+12+36	6+12+12+24	9+9+9+9+18	
					18+18	9+9+18	9+9+9+18	9+9+9+9+24	
					18+24	9+9+24	9+9+9+24	9+9+9+12+24	
					18+30	9+9+30	9+9+12+18	9+9+9+12+18	
					18+36	9+9+36	9+9+12+24	9+9+12+12+18	
					24+24	9+12+18	9+12+12+18	9+12+12+12+18	
					24+30	9+12+24	9+12+12+24		
					24+36	9+12+30	12+12+12+18		
						9+12+36	12+12+12+24		
						12+12+18			
						12+12+24			
						12+12+30			
		When there One Way Cassette and AHU both in the combination: Wall mounted: 6K/9K/12K/18K/24K/30K/36K; Cassette/One Way Cassette/Low-static Duct/ Console/Floor Ceiling: 6K/9K/12K/18K/24K; High-static duct: 9K/12K (should be considered as 18K); 18K/24K (should be considered as 24K); AHU: 18K/24K/30K/36K	/	30	6+18	6+6+18	6+6+6+18	6+6+6+6+18	
				36	6+24	6+6+24	6+6+6+24	6+6+6+6+24	
					6+30	6+6+30	6+6+9+18	6+6+6+12+18	
					6+36	6+6+36	6+6+9+24	6+6+6+12+24	
					9+18	6+9+18	6+6+12+18	6+9+9+9+18	
					9+24	6+9+24	6+6+12+24	6+9+9+9+24	
					9+30	6+9+30	6+9+9+18	6+9+9+12+18	
					9+36	6+9+36	6+9+9+24	6+9+9+12+24	
					12+18	6+12+18	6+9+12+18	6+9+12+12+18	
					12+24	6+12+24	6+9+12+24	6+9+12+12+24	
					12+30	6+12+30	6+12+12+18	6+12+12+12+18	
					12+36	6+12+36	6+12+12+24	9+9+9+9+18	
					18+18	9+9+18	9+9+9+18	9+9+9+9+24	
					18+24	9+9+24	9+9+9+24	9+9+9+12+24	
					18+30	9+9+30	9+9+12+18	9+9+9+12+18	
					18+36	9+9+36	9+9+12+24	9+9+12+12+18	
					24+24	9+12+18	9+12+12+18	9+12+12+12+18	
					24+30	9+12+24	9+12+12+24		
					24+36	9+12+30	12+12+12+18		
						9+12+36	12+12+12+24		
						12+12+18			
						12+12+24			
						12+12+30			
		High-static duct(Only): 9K/12K/18K/24K	Ducted: 9+9+12+12+12	18	9+9	9+9+9	9+9+9+9	9+9+9+9+9	
				24	9+12	9+9+12	9+9+9+12	9+9+9+9+12	
					9+18	9+9+18	9+9+9+18	9+9+9+12+12	
					9+24	9+9+24	9+9+9+24	9+9+12+12+12	
					12+12	9+12+12	9+9+12+12	9+12+12+12+12	

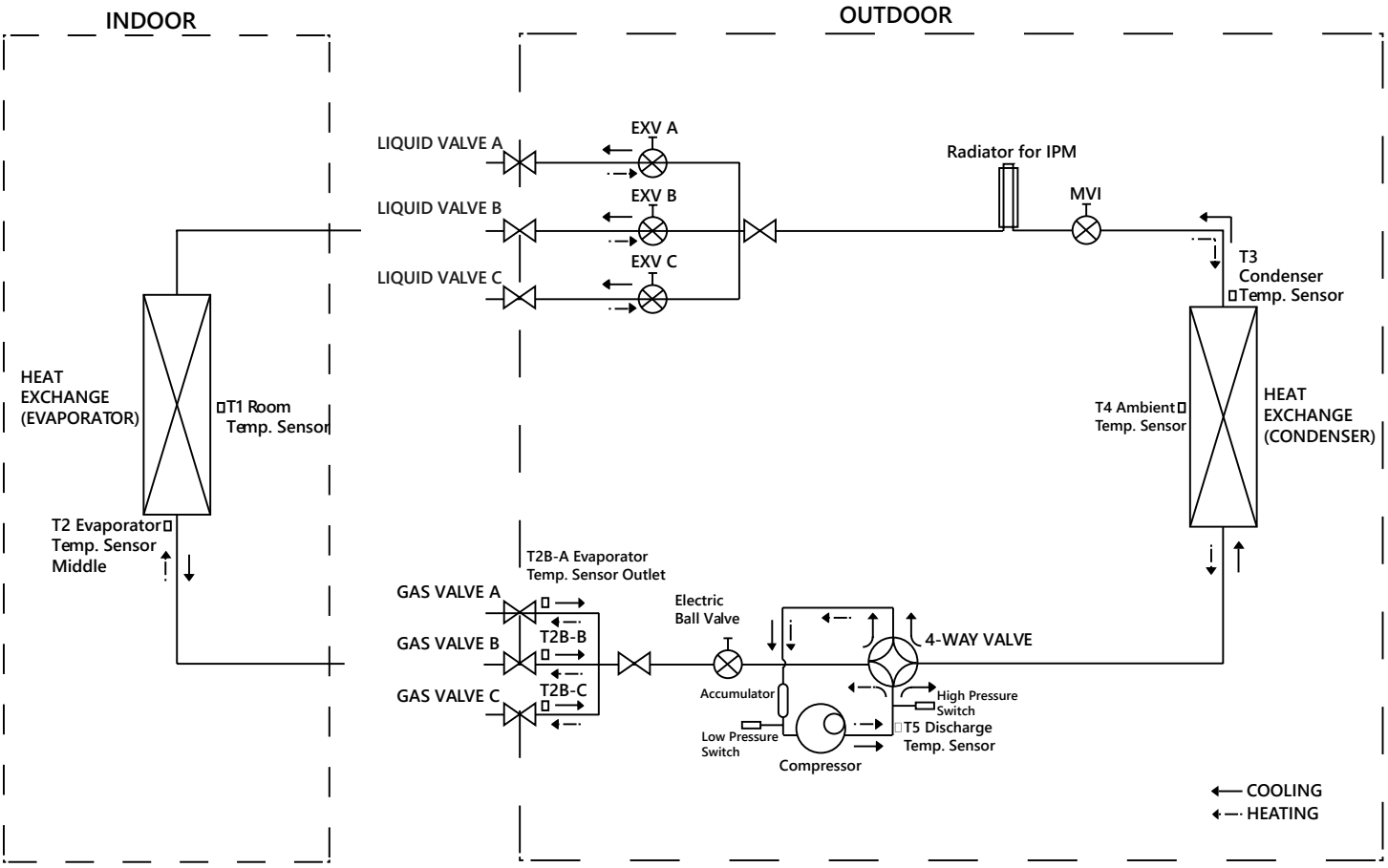
Multi DC Outdoor Unit		Avaliable Indoor	Standard Combination	Optional Combination(Only run)					
				One unit	Two units	Three units	Four units	Five units	Six units
1 drive 6	MO6HX-H48B-2A (22022316002265) MO6HX-H60B-2A (22022316002285)	High-static duct(Only): 9K/12K/18K/24K	Ducted: 9+9+12+12+12		12+18	9+12+18	9+9+12+18	12+12+12+12+12	
					12+24	9+12+24	9+9+12+24		
					18+18	9+18+18	9+9+18+18		
					18+24	9+18+24	9+9+18+24		
					24+24	9+24+24	9+12+12+12		
						12+12+12	9+12+12+18		
						12+12+18	9+12+12+24		
						12+12+24	9+12+18+18		
						12+18+18	9+12+18+24		
						12+18+24	12+12+12+12		
						12+24+24	12+12+12+18		
							12+12+12+24		
							12+12+18+18		
							12+12+18+24		
Note:	1. If total indoor units load exceeds nominal capacity of outdoor unit, the practical output capacity of every indoor unit will be correspondingly attenuated. This situation is very evidently during heating mode. 2. If the size of the indoor units are the same, the combinations of small indoor units can be applied to same size units. (For example, the size of 9K and 12K EP are the same, so the 12K unit can be considered as 9K and applied to the combinations of 9K units.) 3. For most efficient 12K EP, it should be considerde as 18K unit in combination chart because it has the same size with regular 18K EP. 4. For AHU series: a, Fan of AHU will stop (follow me On) or intermittently running (follow me Off) when reaches its setting temperature; b, When connecting to a third-party thermostat via a 24V connection, if the AHU has no heating demand, the fan ON command from the thermostat will be ineffective and the fan will not turn on; c, System will start running when AHU receive emergency heating demand;								

Refrigerant Cycle Diagrams

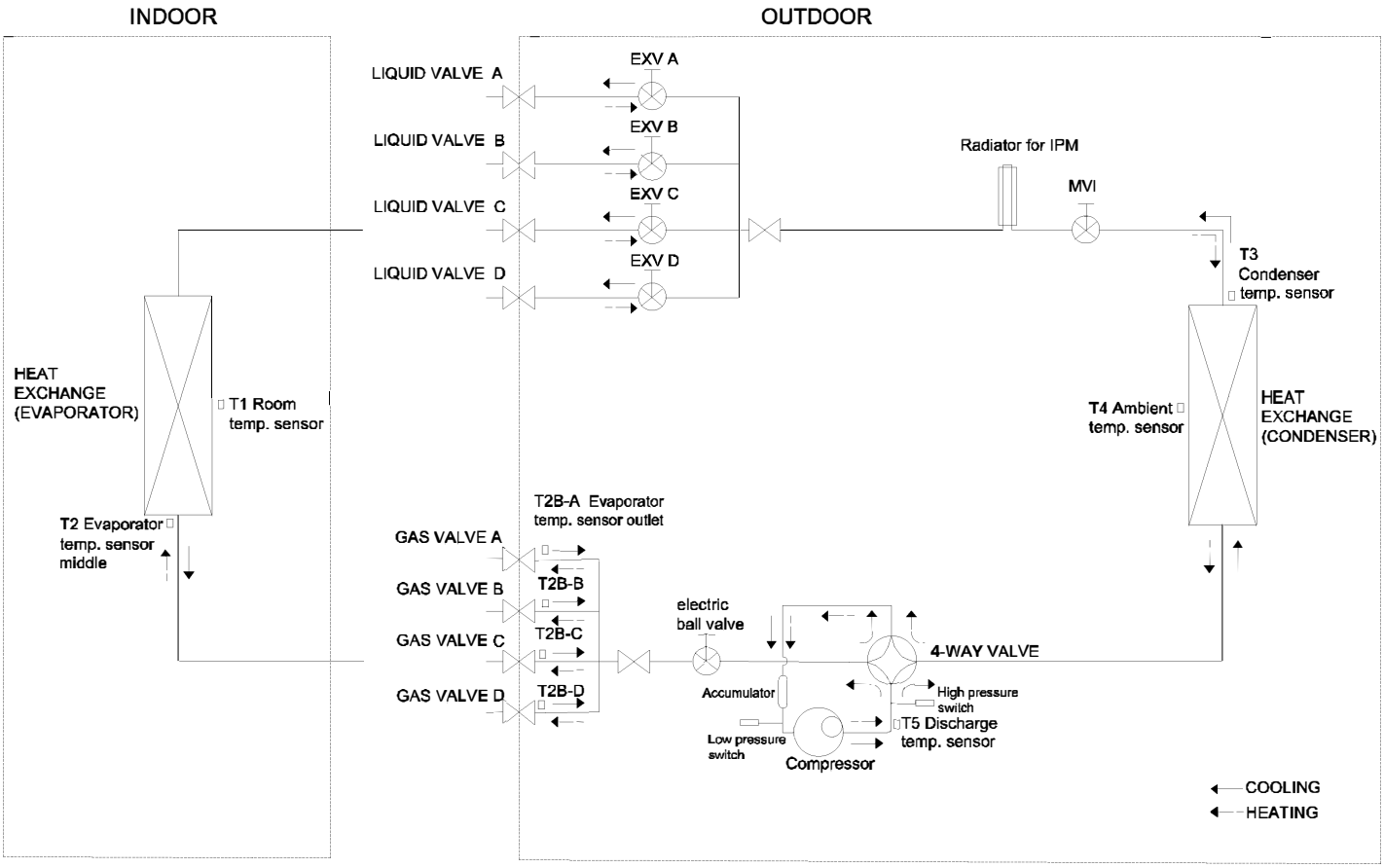
Refrigeration Cycle Diagram of MO3EX-H18B-2A



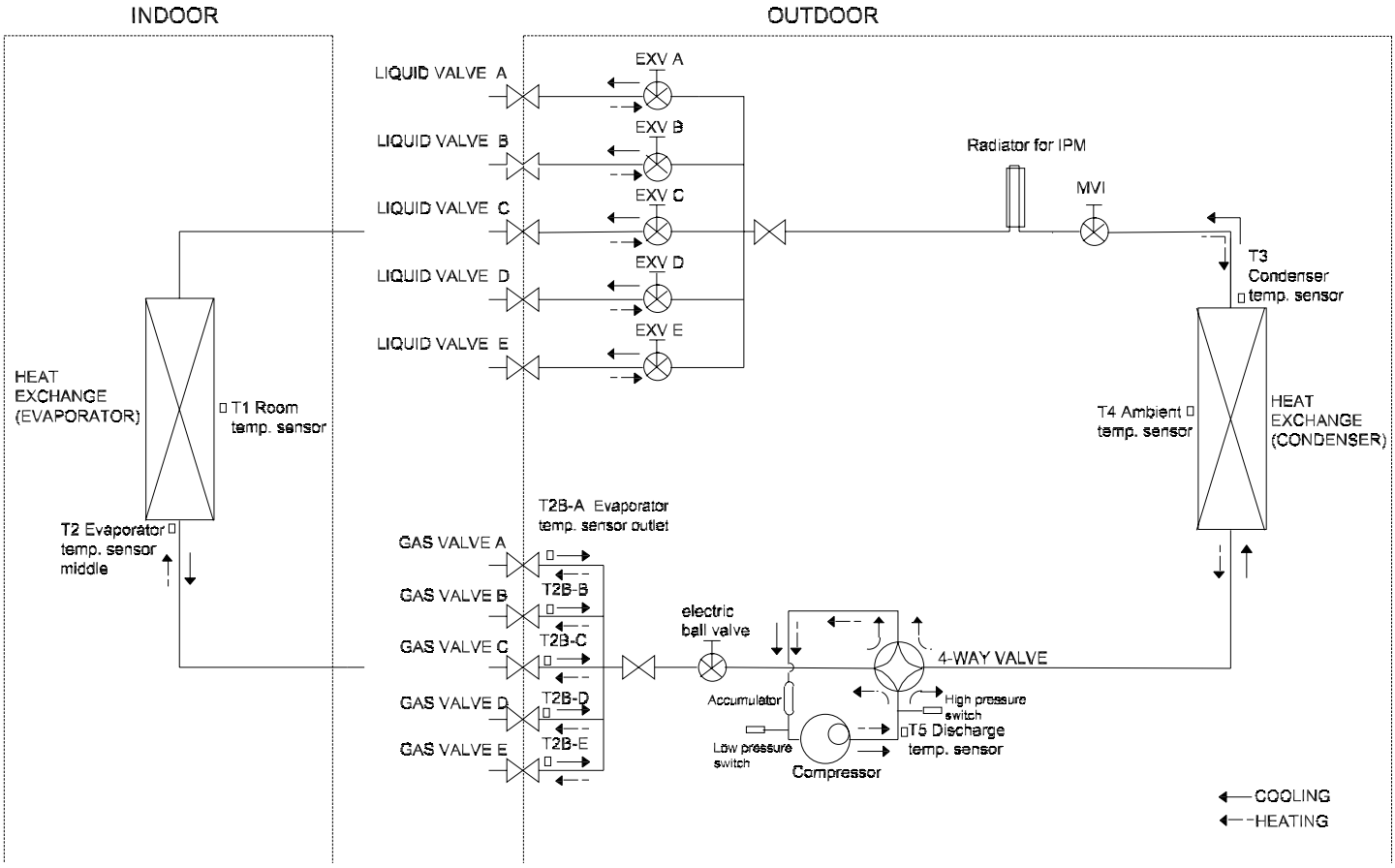
Refrigeration Cycle Diagram of MO3HX-H18B



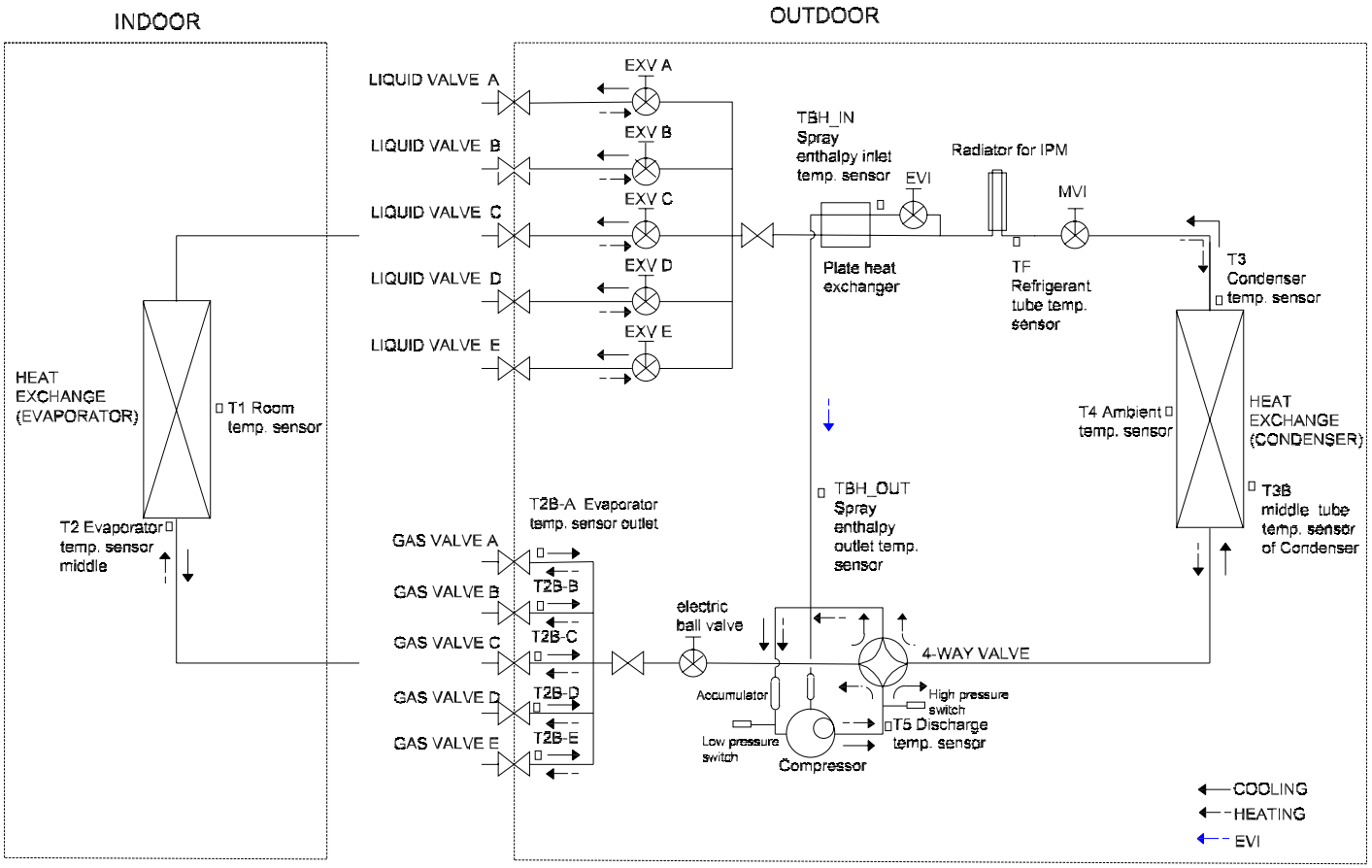
Refrigeration Cycle Diagram of MO4HX-H27B-2A & MO4EX-H27B-2A



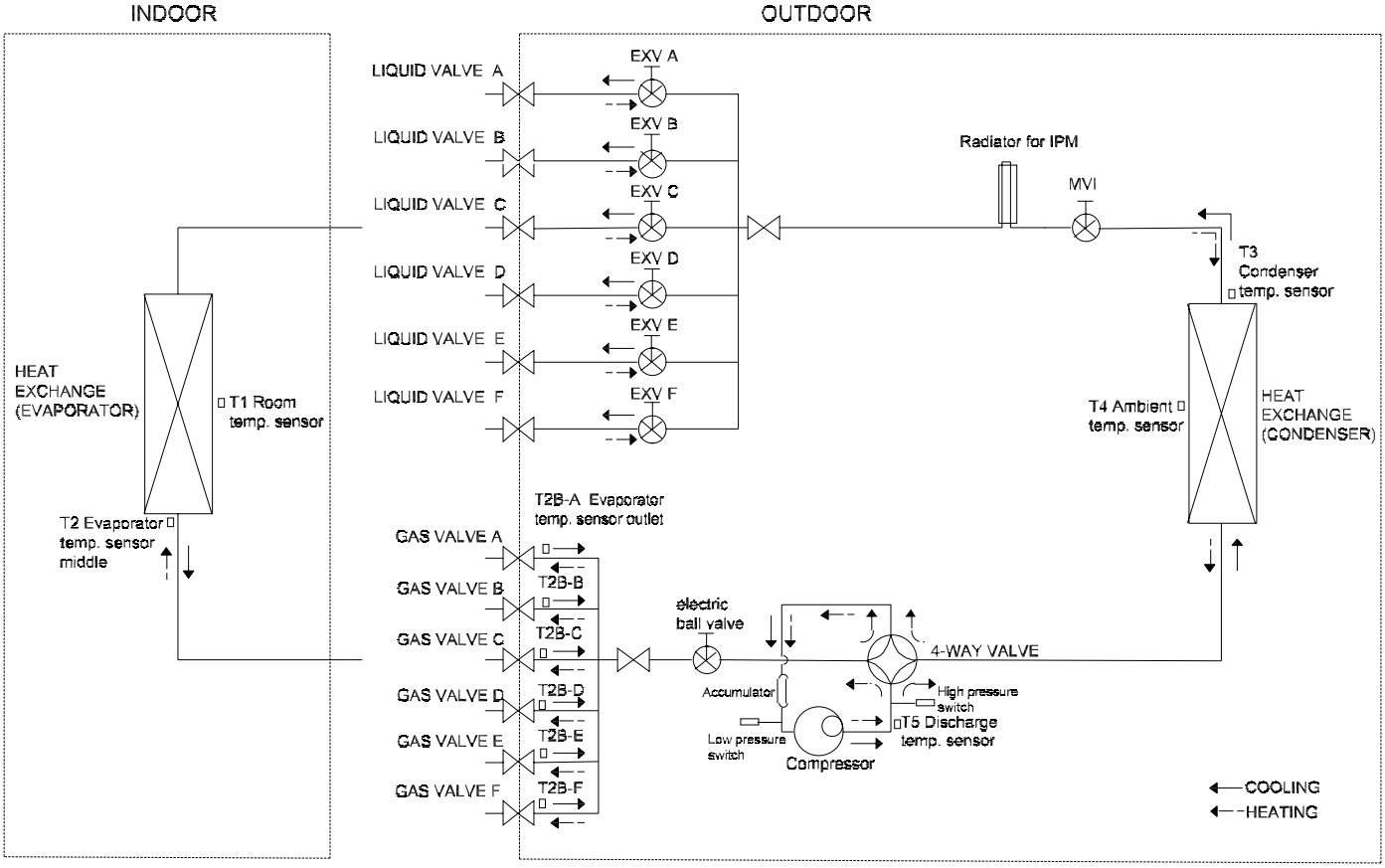
Refrigeration Cycle Diagram of MO5EX-H36B-2A



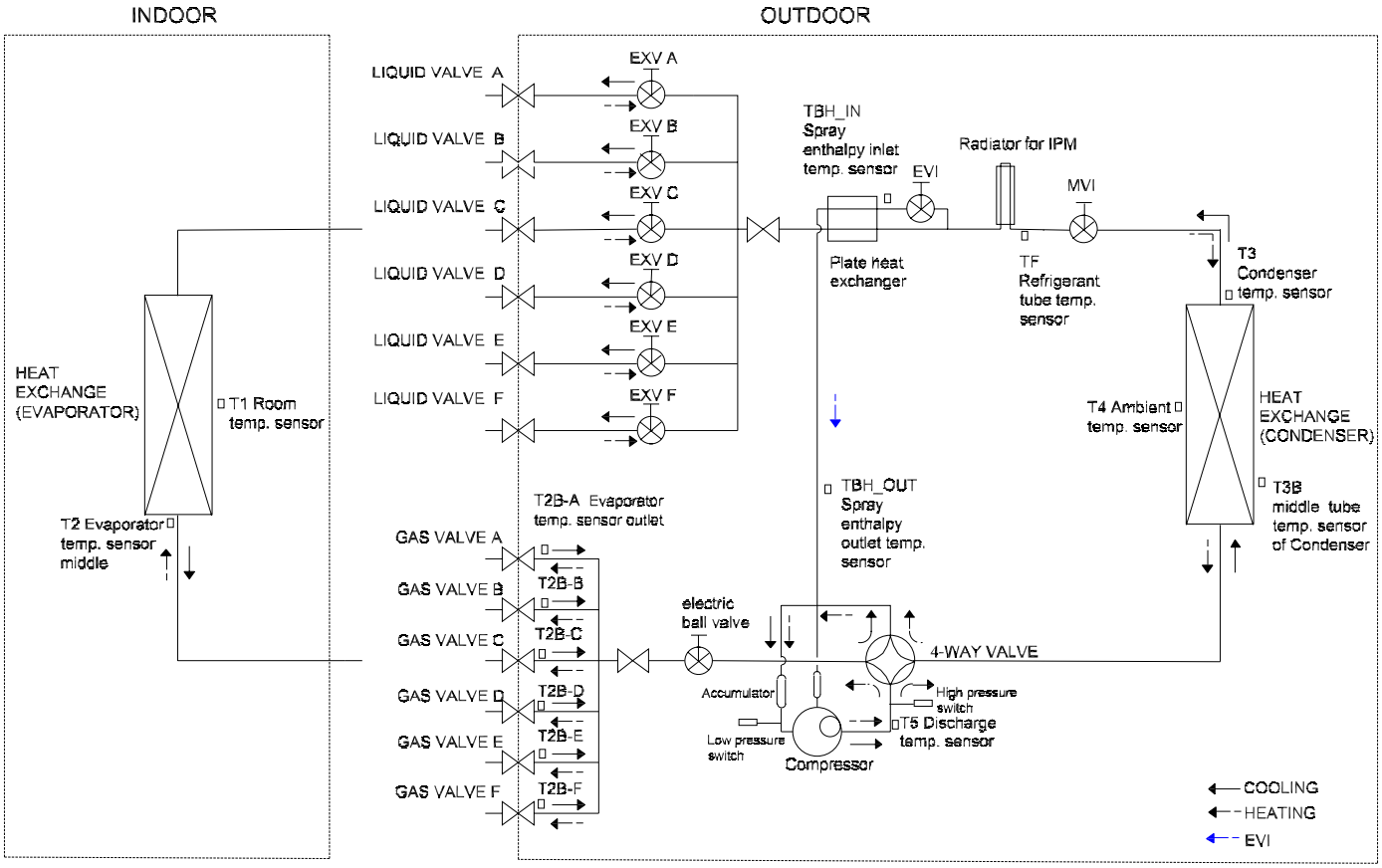
Refrigeration Cycle Diagram of MO5HX-H36B-2A



Refrigeration Cycle Diagram of MO6EX-H48B-2A & MO6EX-H60B-2A



Refrigeration Cycle Diagram of MO6HX- H48B-2A & MO6HX-H60B-2A



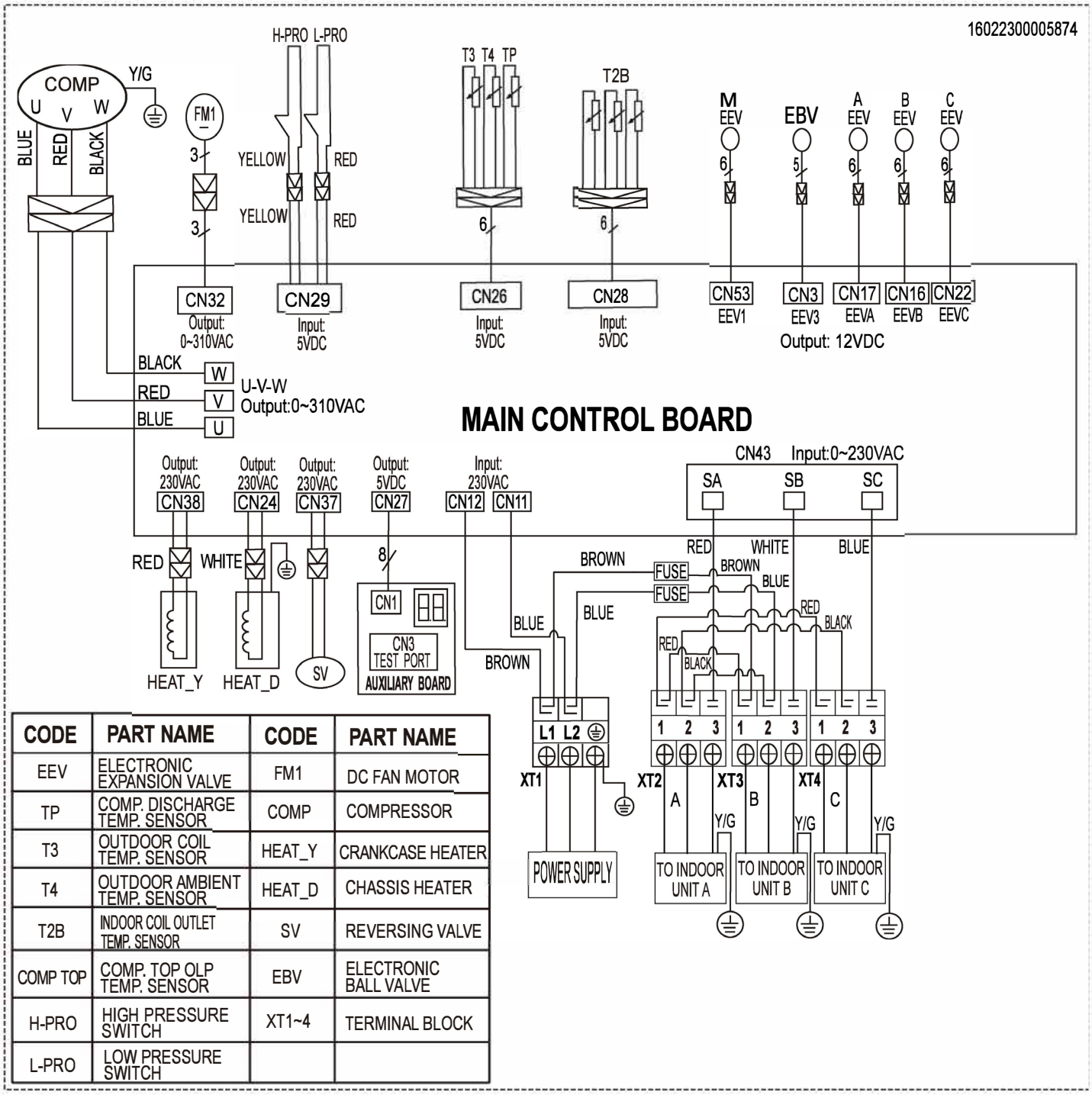
Electrical Wiring Diagrams

Outdoor Unit Wiring Diagram

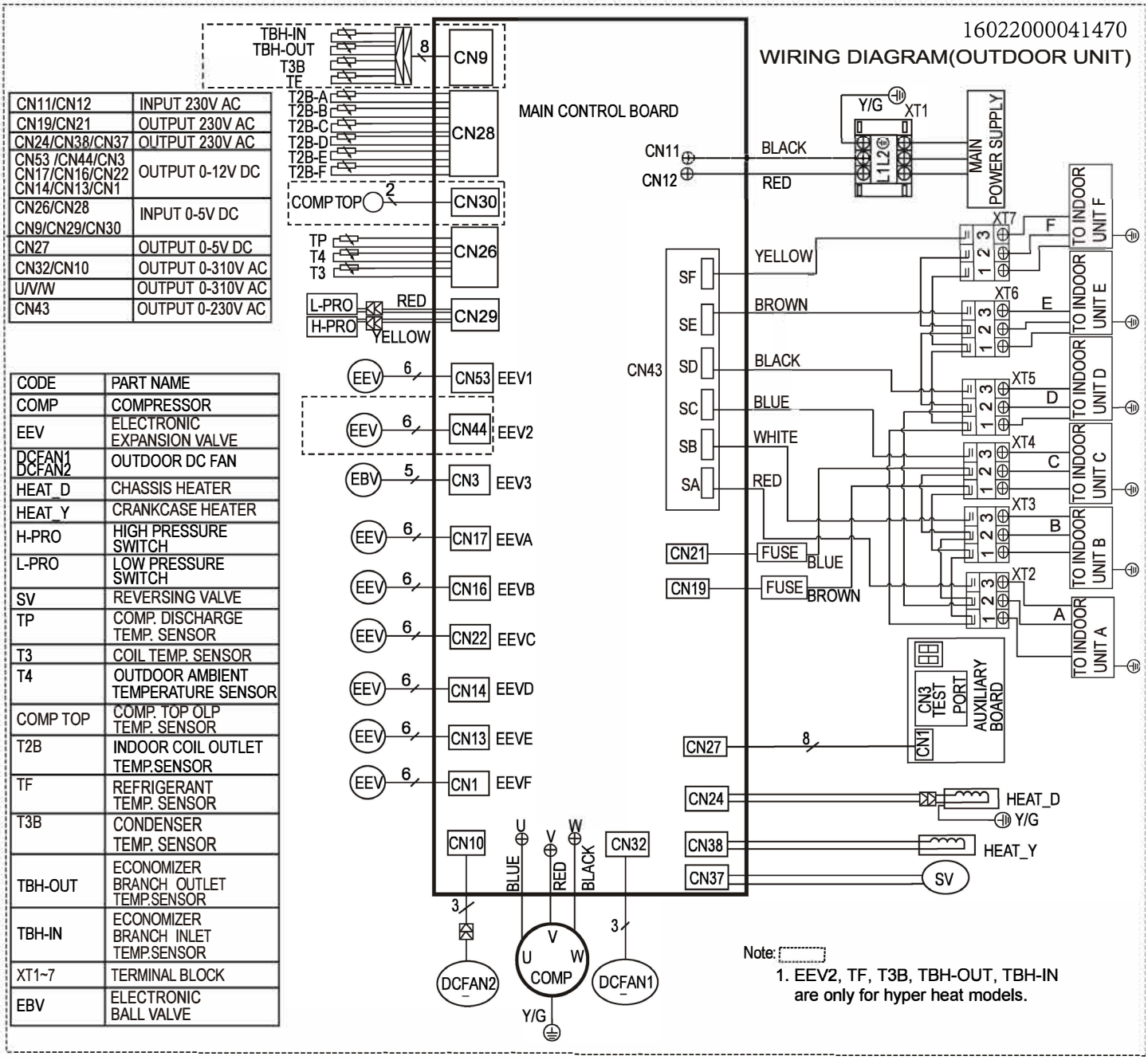
Outdoor Unit	
ODU Model	**ODU Wiring Diagram**
MO3EX-H18B-2A	16022000040630
MO3HX-H18B-2A	16022300005874
MO4HX-H27B-2A	16022300005875
MO4EX-H27B-2A	
MO5HX-H36B-2A	16022300005713
MO5EX-H36B-2A	16022300005893
MO6HX-H48B-2A	16022000041470
MO6HX-H60B-2A	
MO6EX-H48B-2A	
MO6EX-H60B-2A	

Outdoor Unit Printed Circuit Board Diagram

Outdoor Unit	
ODU Model	**ODU Printed Circuit Board**
MO3EX-H18B-2A	17122000062845
MO3HX-H18B-2A	17122300008875
MO4HX-H27B-2A	17122300008875
MO4EX-H27B-2A	
MO5HX-H36B-2A	
MO5EX-H36B-2A	17122300008875
MO6HX-H48B-2A	17122300008875
MO6HX-H60B-2A	
MO6EX-H48B-2A	
MO6EX-H60B-2A	

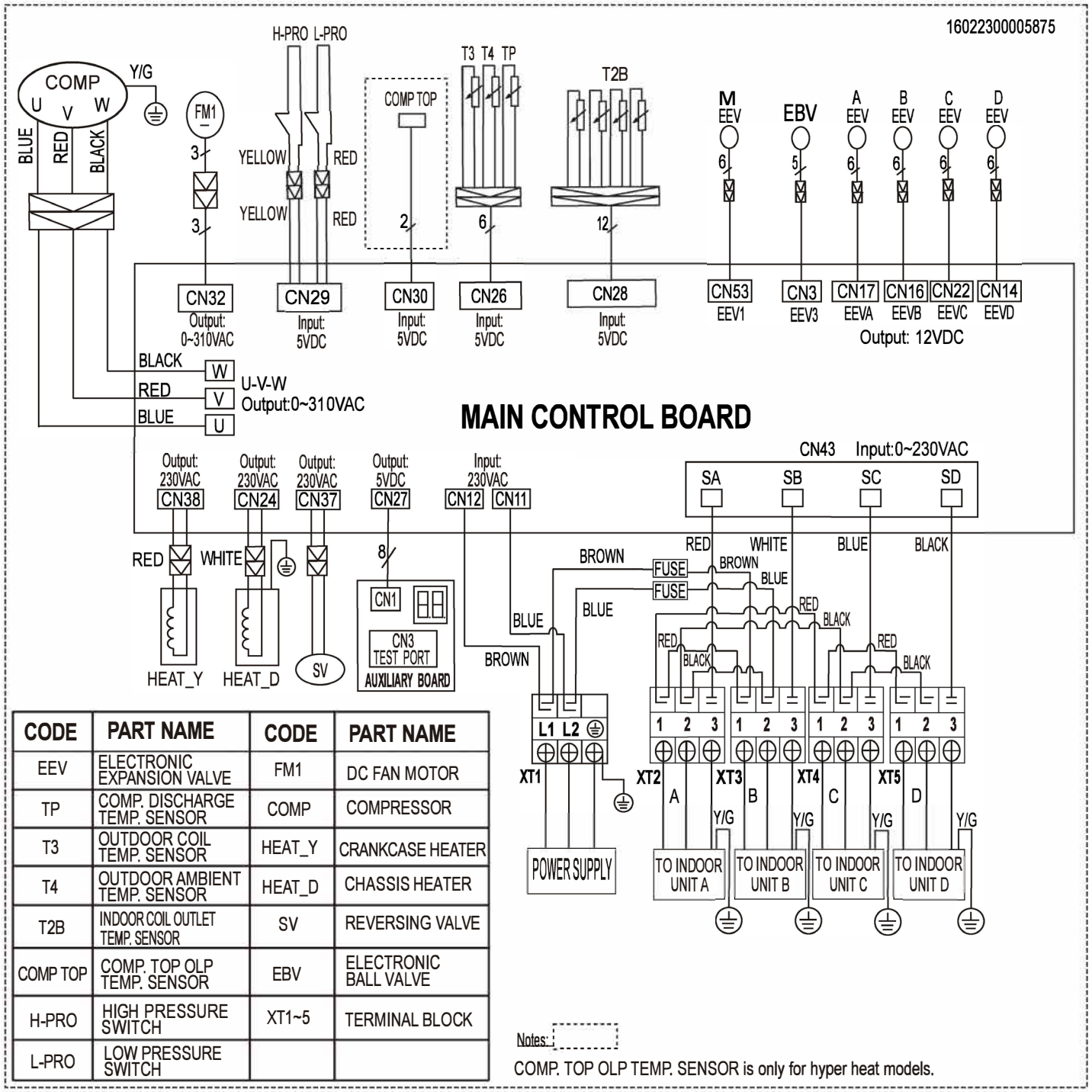


CODE	PART NAME	CODE	PART NAME
EEV	ELECTRONIC EXPANSION VALVE	FM1	DC FAN MOTOR
TP	COMP. DISCHARGE TEMP. SENSOR	COMP	COMPRESSOR
T3	OUTDOOR COIL TEMP. SENSOR	HEAT_Y	CRANKCASE HEATER
T4	OUTDOOR AMBIENT TEMP. SENSOR	HEAT_D	CHASSIS HEATER
T2B	INDOOR COIL OUTLET TEMP. SENSOR	SV	REVERSING VALVE
COMP TOP	COMP. TOP OLP TEMP. SENSOR	EBV	ELECTRONIC BALL VALVE
H-PRO	HIGH PRESSURE SWITCH	XT1~4	TERMINAL BLOCK
L-PRO	LOW PRESSURE SWITCH		



CN11/CN12	INPUT 230V AC
CN19/CN21	OUTPUT 230V AC
CN24/CN38/CN37	OUTPUT 230V AC
CN53 /CN44/CN3 CN17/CN16/CN22 CN14/CN13/CN1	OUTPUT 0-12V DC
CN26/CN28 CN9/CN29/CN30	INPUT 0-5V DC
CN27	OUTPUT 0-5V DC
CN32/CN10	OUTPUT 0-310V AC
U/V/W	OUTPUT 0-310V AC
CN43	OUTPUT 0-230V AC

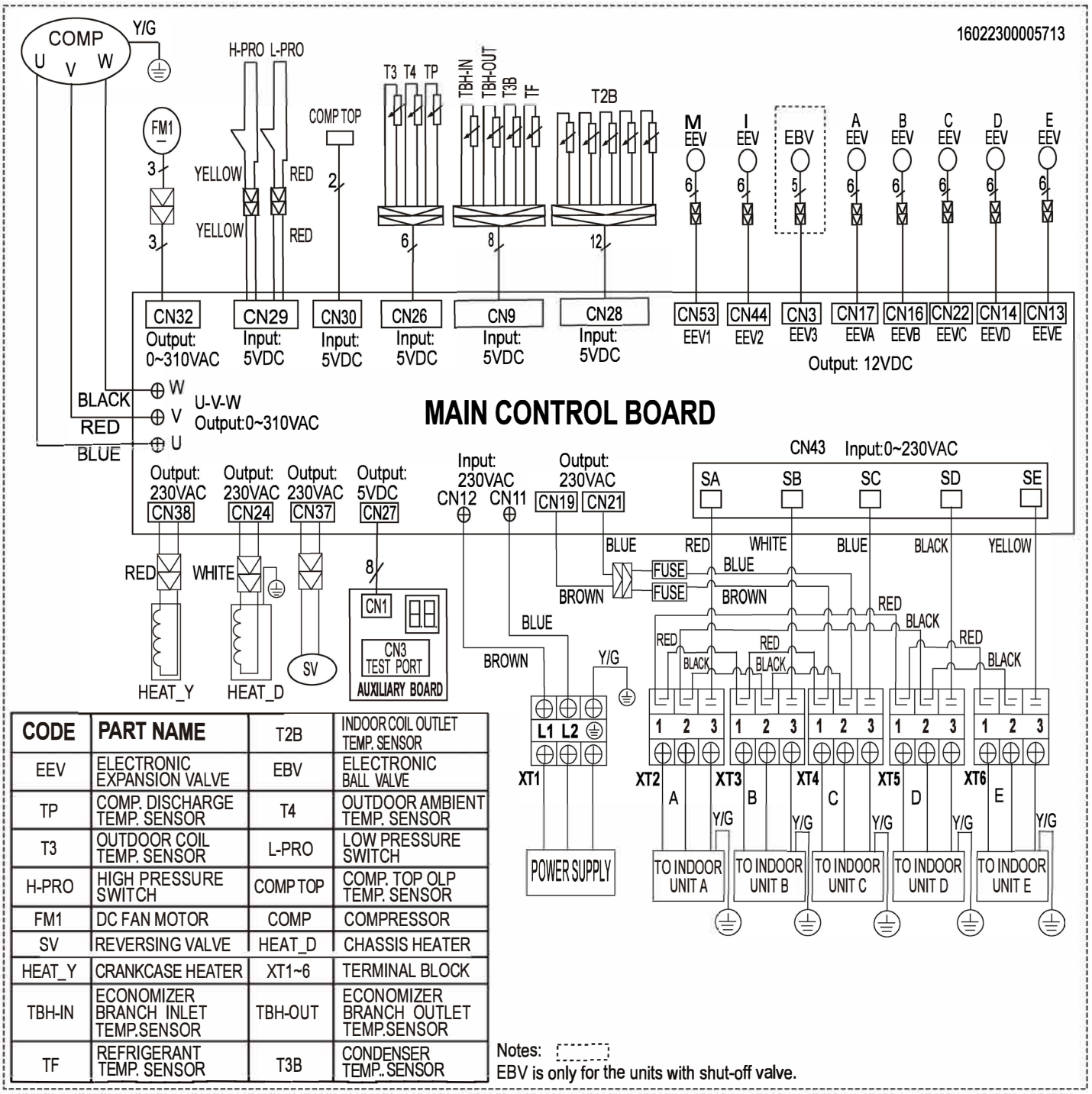
CODE	PART NAME
COMP	COMPRESSOR
EEV	ELECTRONIC EXPANSION VALVE
DCFAN1 DCFAN2	OUTDOOR DC FAN
HEAT_D	CHASSIS HEATER
HEAT_Y	CRANKCASE HEATER
H-PRO	HIGH PRESSURE SWITCH
L-PRO	LOW PRESSURE SWITCH
SV	REVERSING VALVE
TP	COMP. DISCHARGE TEMP. SENSOR
T3	COIL TEMP. SENSOR
T4	OUTDOOR AMBIENT TEMPERATURE SENSOR
COMP TOP	COMP. TOP OLP TEMP. SENSOR
T2B	INDOOR COIL OUTLET TEMP.SENSOR
TF	REFRIGERANT TEMP. SENSOR
T3B	CONDENSER TEMP. SENSOR
TBH-OUT	ECONOMIZER BRANCH OUTLET TEMP.SENSOR
TBH-IN	ECONOMIZER BRANCH INLET TEMP.SENSOR
XT1~7	TERMINAL BLOCK
EBV	ELECTRONIC BALL VALVE



CODE	PART NAME	CODE	PART NAME
EEV	ELECTRONIC EXPANSION VALVE	FM1	DC FAN MOTOR
TP	COMP. DISCHARGE TEMP. SENSOR	COMP	COMPRESSOR
T3	OUTDOOR COIL TEMP. SENSOR	HEAT_Y	CRANKCASE HEATER
T4	OUTDOOR AMBIENT TEMP. SENSOR	HEAT_D	CHASSIS HEATER
T2B	INDOOR COIL OUTLET TEMP. SENSOR	SV	REVERSING VALVE
COMP TOP	COMP. TOP OLP TEMP. SENSOR	EBV	ELECTRONIC BALL VALVE
H-PRO	HIGH PRESSURE SWITCH	XT1~5	TERMINAL BLOCK
L-PRO	LOW PRESSURE SWITCH		

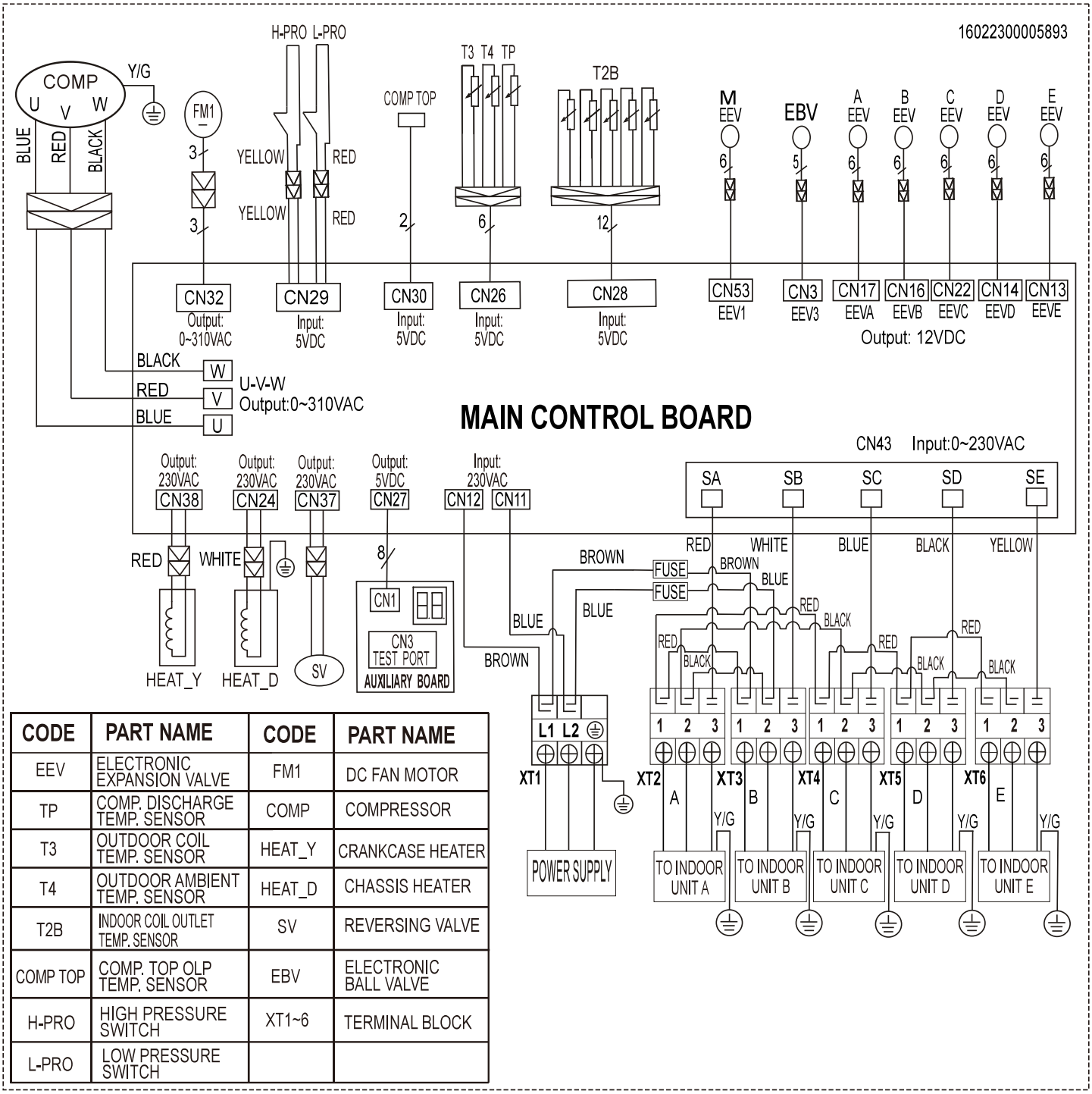
Notes:

COMP. TOP OLP TEMP. SENSOR is only for hyper heat models.

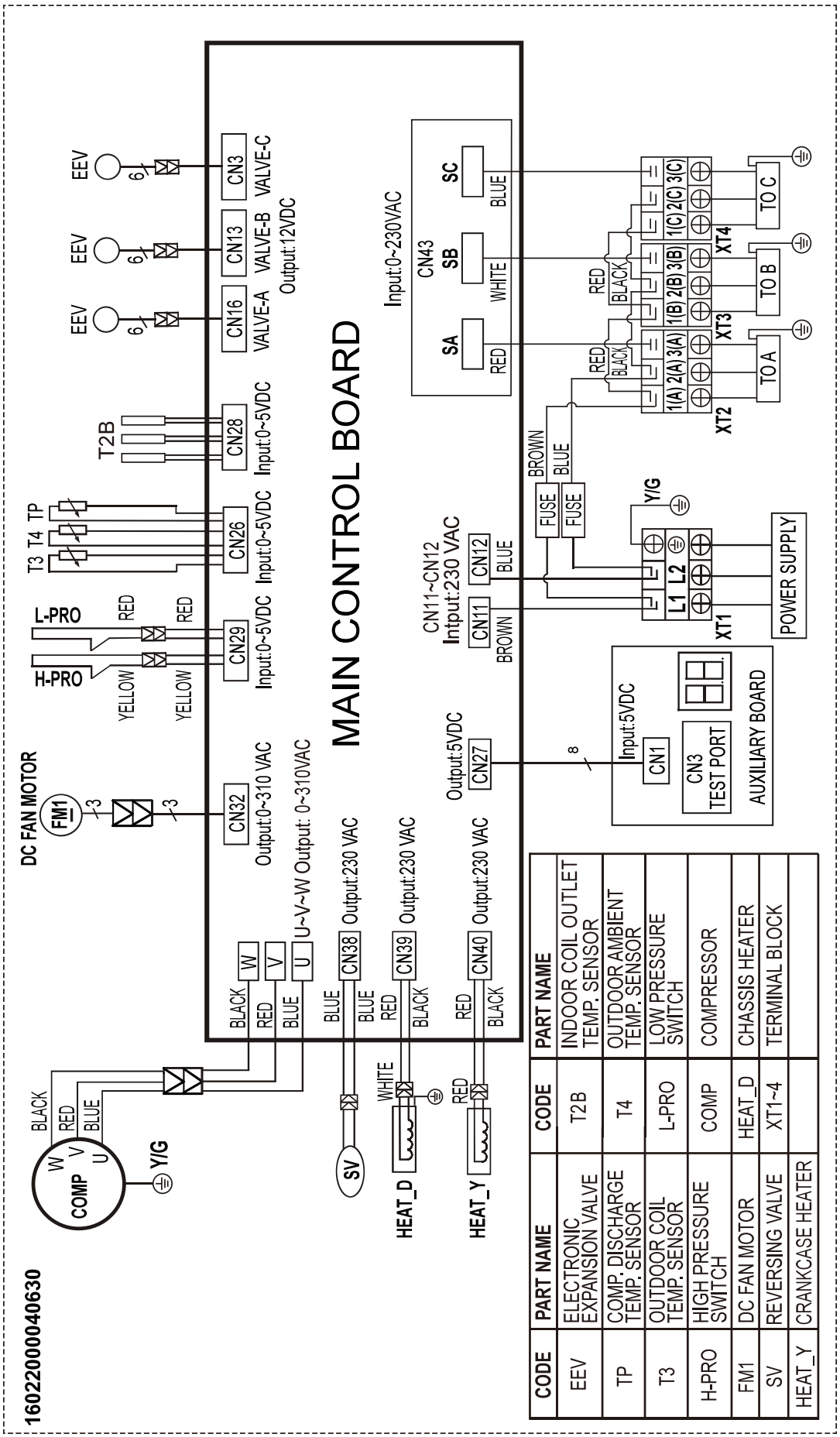


CODE	PART NAME		
EEV	ELECTRONIC EXPANSION VALVE	T2B	INDOOR COIL OUTLET TEMP. SENSOR
TP	COMP. DISCHARGE TEMP. SENSOR	EBV	ELECTRONIC BALL VALVE
T3	OUTDOOR COIL TEMP. SENSOR	T4	OUTDOOR AMBIENT TEMP. SENSOR
H-PRO	HIGH PRESSURE SWITCH	L-PRO	LOW PRESSURE SWITCH
FM1	DC FAN MOTOR	COMP TOP	COMP. TOP OLP TEMP. SENSOR
SV	REVERSING VALVE	COMP	COMPRESSOR
HEAT_Y	CRANKCASE HEATER	HEAT_D	CHASSIS HEATER
TBH-IN	ECONOMIZER BRANCH INLET TEMP.SENSOR	XT1~6	TERMINAL BLOCK
TF	REFRIGERANT TEMP. SENSOR	TBH-OUT	ECONOMIZER BRANCH OUTLET TEMP.SENSOR
		T3B	CONDENSER TEMP.. SENSOR

Notes:
EBV is only for the units with shut-off valve.

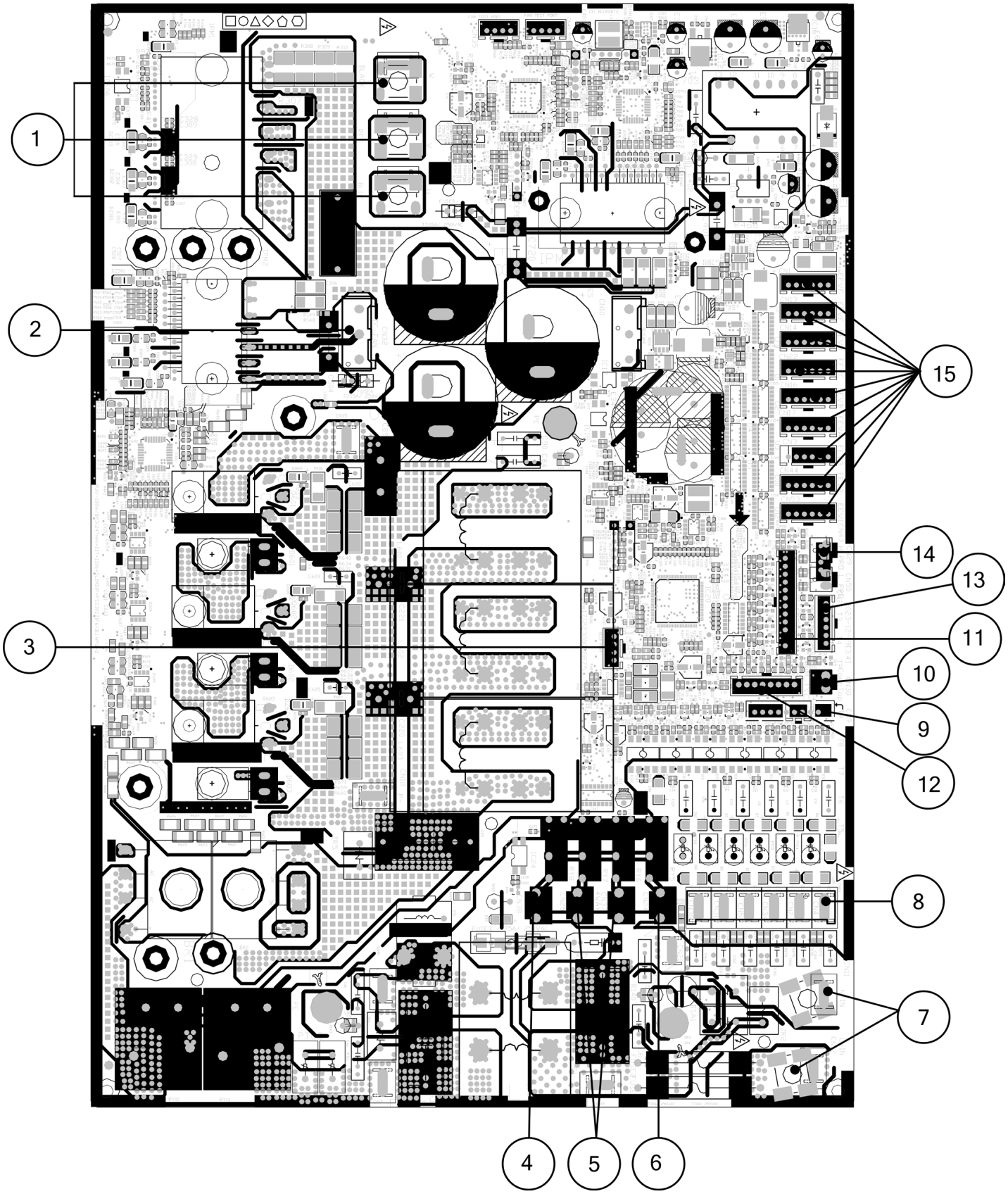


CODE	PART NAME	CODE	PART NAME
EEV	ELECTRONIC EXPANSION VALVE	FM1	DC FAN MOTOR
TP	COMP. DISCHARGE TEMP. SENSOR	COMP	COMPRESSOR
T3	OUTDOOR COIL TEMP. SENSOR	HEAT_Y	CRANKCASE HEATER
T4	OUTDOOR AMBIENT TEMP. SENSOR	HEAT_D	CHASSIS HEATER
T2B	INDOOR COIL OUTLET TEMP. SENSOR	SV	REVERSING VALVE
COMP TOP	COMP. TOP OLP TEMP. SENSOR	EBV	ELECTRONIC BALL VALVE
H-PRO	HIGH PRESSURE SWITCH	XT1~6	TERMINAL BLOCK
L-PRO	LOW PRESSURE SWITCH		



CODE	PART NAME	CODE	PART NAME
EEV	ELECTRONIC EXPANSION VALVE	T2B	INDOOR COIL OUTLET TEMP. SENSOR
TP	COMP. DISCHARGE TEMP. SENSOR	T4	OUTDOOR AMBIENT TEMP. SENSOR
T3	OUTDOOR COIL TEMP. SENSOR	L-PRO	LOW PRESSURE SWITCH
H-PRO	HIGH PRESSURE SWITCH	COMP	COMPRESSOR
FM1	DC FAN MOTOR	HEAT_D	CHASSIS HEATER
SV	REVERSING VALVE	XT1~4	TERMINAL BLOCK
HEAT_Y	CRANKCASE HEATER		

Outdoor Unit Printed Circuit Board Diagram: 17122000057661

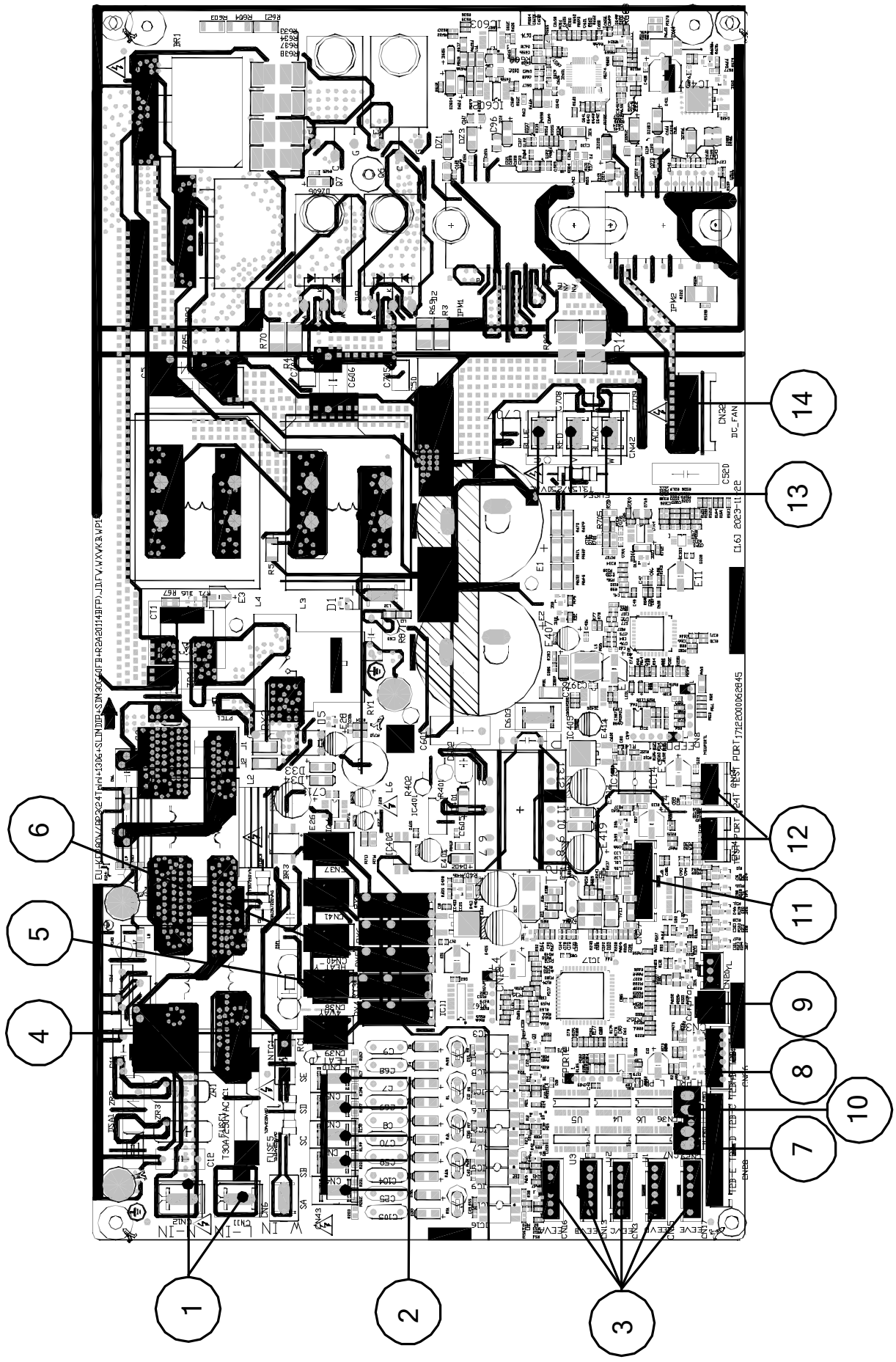


Outdoor Unit Printed Circuit Board Table: 17122300008875

No.	Name	CN#	Meaning
1	COMPRESSOR	W	connect to compressor; 0V AC (standby); 10-310V AC (running)
		V	
		U	
2	DC-FAN	CN32	connect to DC fan
3	TESTPORT	CN45	used for testing
4	HEAT_Y	CN38	connect to compressor heater, 208-230V AC when is ON
5	4-WAY	CN37	connect to 4 way valve 1, 208-230V AC when is ON.
		CN25	connect to 4 way valve 2, 208-230V AC when is ON.
6	HEAT_D	CN24	connect to chassis heater, 208-230V AC when is ON
7	Power Supply	CN11	N_in: connect to N-line (208-230V AC input)
		CN12	L_in: connect to L-line (208-230V AC input)
8	S-A	CN43	S: connect to indoor unit communication (pin1-pin2: 24VDC Pulse wave; pin2-pin3: 208-230 V AC input)
	S-B		
	S-C		
	S-D		
	S-E		
	S-F		
9	TBH-IN TBH-OUT T3B TF	CN9	connect to cold plate inlet temp. sensor TBH-IN, cold plate outlet temp. sensor TBH-OUT, condenser coil middle temp. sensor T3B, refrigerant tube inlet temp. sensor TF
10	OLP TEMP. SENSOR	CN30	connect to compressor top temp. sensor (5 VDC Pulse wave)
11	T2B	CN28	connect to evaporator coil outlet temperature sensor T2B
12	/	CN27	connect to key board CN1
13	T3 T4 TP	CN26	connect to condenser coil temp. sensor T3, ambient temp. sensor T4, exhaust temp. sensor TP
14	H-PRO,L-RPO	CN29	connect to high and low pressure switch (pin1-pin2 & pin3-pin4: 5 VDC pulse wave)
15	EEVA	CN17	connect to electric expansion valve
	EEVB	CN16	
	EEVC	CN22	
	EEVD	CN14	
	EEVE	CN13	
	EEVF	CN1	
	EEV1	CN53	
	EEV2	CN44	
	EEV3	CN3	

NOTE

This section is for reference only. Please take practicality as standard.


1
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14

Outdoor Unit Printed Circuit Board Table: 17122000062845

No.	Name	CN#	Meaning
1	Power Supply	CN11	L_in: connect to N-line (208-230 V AC input)
		CN12	N_in: connect to L-line (208-230 V AC input)
2	S-A	CN4	S: connect to indoor unit communication (pin1-pin2: 24 VDC Pulse wave; pin2-pin3: 208-240 V AC input)
	S-B	CN2	
	S-C	CN34	
	S-D	CN5	
	S-E	CN10	
3	EEV-A	CN10	connect to electric expansion valve
	EEV-B	CN13	
	EEV-C	CN3	
	EEV-D	CN15	
	EEV-E	CN17	
4	HEAT_D	CN39	connect to chassis heater, 208-240 V AC when is ON
5	4-WAY	CN38	connect to 4 way valve, 208-240 V AC when is ON.
6	HEAT_Y	CN40	connect to compressor heater, 208-240 V AC when is ON
7	T2B	CN28	connect to evaporator coil outlet temperature sensor T2B
8	T3 T4 TP	CN26	connect to pipe temp. sensor T3, ambient temp. sensor T4, exhaust temp. sensor TP
9	OLP TEMP. SENSOR	CN30	connect to compressor top temp. sensor (5 VDC Pulse wave)
10	H-PRO,L-RPO	CN29	connect to high and low pressure swtich (pin1-pin2 & pin3-pin4: 5 VDC pulse wave)
11	/	CN27	connect to key board CN1
12	TESTPORT	CN24/ CN14	used for testing
13	COMPRESSOR	U	connect to compressor; 0 V AC (standby), 10-200 V AC (running)
		V	
		W	
14	DC-FAN	CN32	connect to DC fan

NOTE

This section is for reference only. Please take practicality as standard.

Electronic Functions

Abbreviation

Unit Element Abbreviations

Abbreviation	Element
T1	Indoor room temperature
T2	Middle indoor heat exchanger coil temperature
T2B	Indoor heat exchanger exhaust coil temperature (located on the out-door unit)
T3	Coil temperature of condenser
T4	Outdoor ambient temperature
T3B	Condenser middle temperature
T5	Refrigerant pipe inlet temperature
T6A	Economizer branch inlet temperature
T6B	Economizer branch outlet temperature
TP	Compressor discharge temperature

NOTE

T3B, T5, T6A, and T6B are only for hyper heat models.

Main Protection

Sensor Redundancy And Automatic Shutoff

- If one temperature sensor (T3, T4, T2B, or TP) malfunctions, the unit ceases operation and displays the corresponding error code.

Automatic Shutoff Based On Fan

If the outdoor fan speed operates outside the normal range, due to fan phase loss or fan zero speed failure, the unit ceases operation.

Inverter Module Protection

The inverter module has an automatic shutoff mechanism based on the unit's current and temperature. If automatic shutoff is initiated, the corresponding error code is displayed, and the unit ceases operation.

Indoor/Outdoor Units Communication Protection

If the indoor units do not receive the feedback signal from the outdoor units for 2 consecutive minutes or the outdoor units do not receive the feedback signal from any one of the indoor units for 3 consecutive minutes, the unit ceases operation. The unit displays the failure code.

EEPROM Parameter Error

If the main chip does not receive feedback from the EEPROM chip or parameter check error, the unit ceases operation.

Automatic Shutoff Based On The Compressor
If the compressor speed has been out of control, the compressor lacks phase or voltage too low, the unit ceases operation.
Temperature Protection Of Compressor Discharge
When the discharge temperature of the compressor rises, the running frequency is limited. If the discharge temperature is too high, the compressor stops and then restarts until the discharge temperature is reduced to the normal range.
Evaporator Anti-Freezing Protection
The T2 sent from the indoor unit to the outdoor unit is low, and the unit limits the compressor to run at a low frequency.
Oil Return

1. If the unit runs at low frequency for a long time, the unit will run the oil return program to increase the frequency of the compressor.
2. After the unit runs continuously for a while, the unit will run the oil return program to increase the compressor frequency.

Outdoor Unit Disassembly

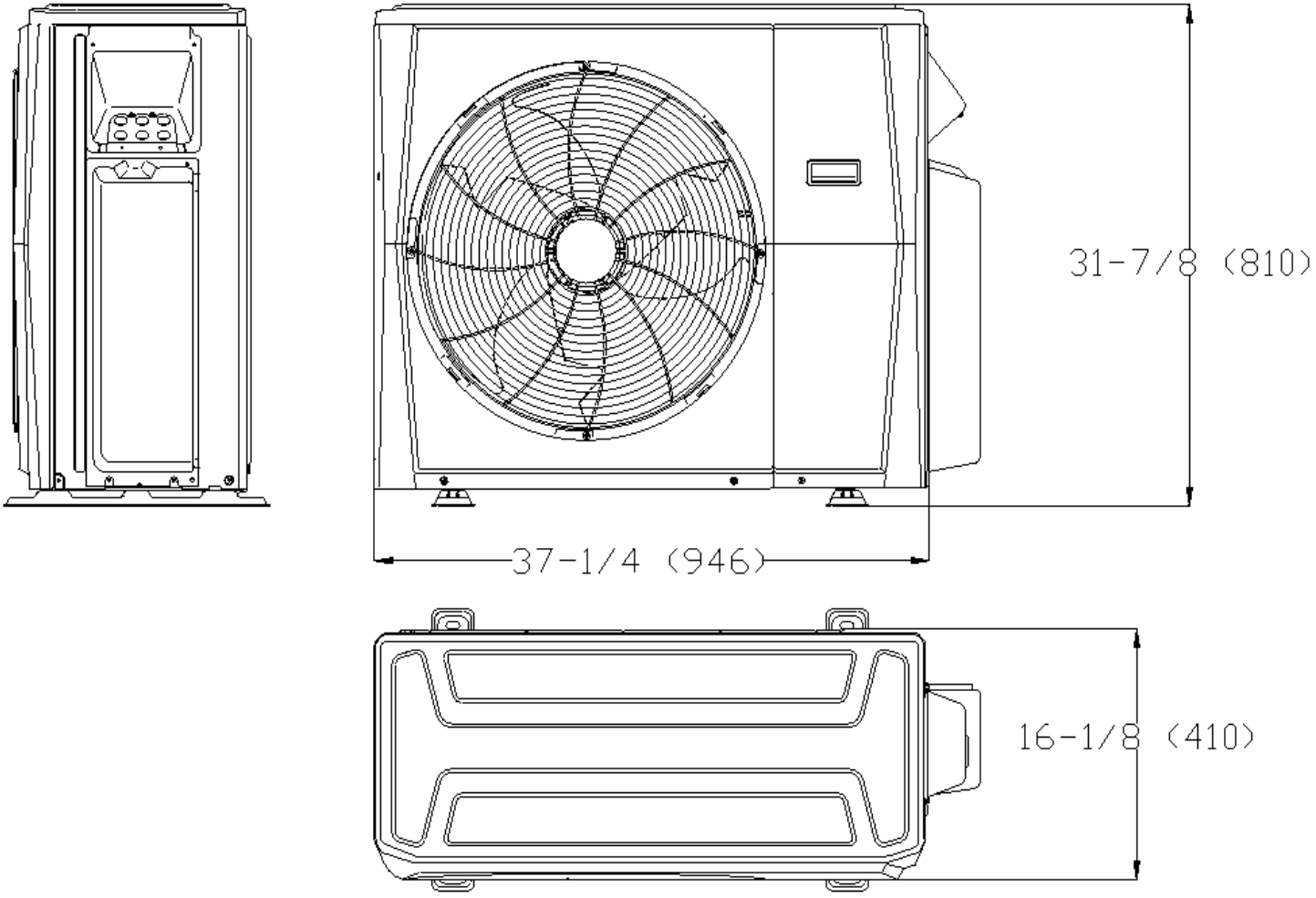
Outdoor Unit Table

Outdoor Unit Model	Panel Plate	PCB Board
MO3HX-H18B-2A	D30	PCB board 9
MO4HX-H27B-2A	D30	PCB board 9
MO5HX-H36B-2A	D30	PCB board 9
MO6HX-H48B-2A	E30	PCB board 10
MO6HX-H60B-2A	E30	PCB board 10
MO4EX-H27B-2A	D30	PCB board 9
MO5EX-H36B-2A	D30	PCB board 9
MO6EX-H48B-2A	E30	PCB board 10
MO6EX-H60B-2A	E30	PCB board 10
MO3EX-H18B-2A	X430	PCB board 6

Dimension

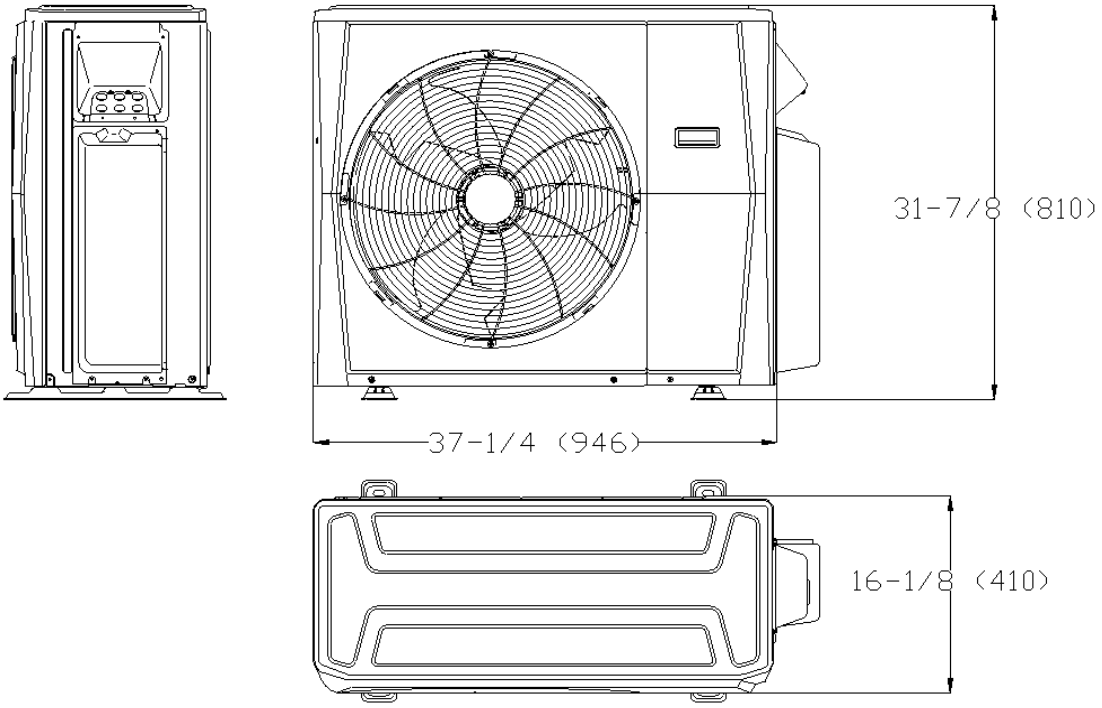
Panel Plate MO3EX-H18B-2A

Unit: in. (mm)



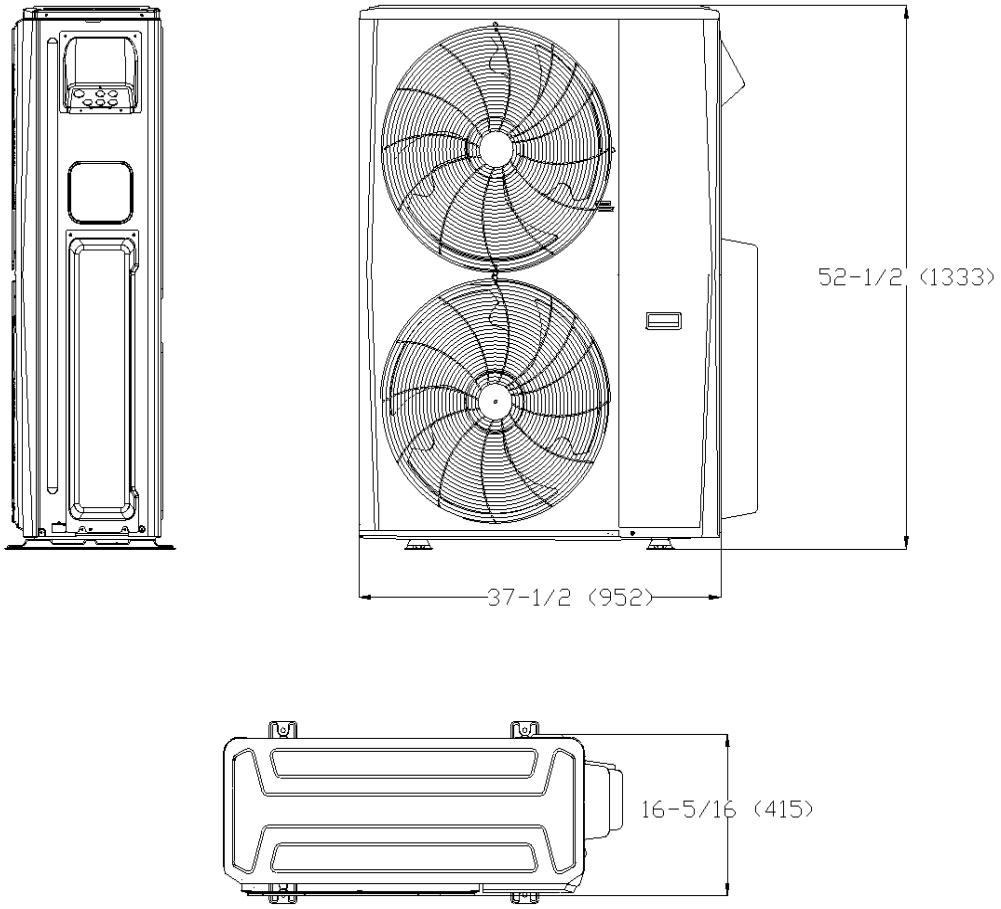
Panel Plate MO3HX-H18B-2A, MO4HX-H27B-2A, MO5HX-H36B-2A, MO4EX-H27B-2A, & MO5EX-H36B-2A

Unit: in. (mm)



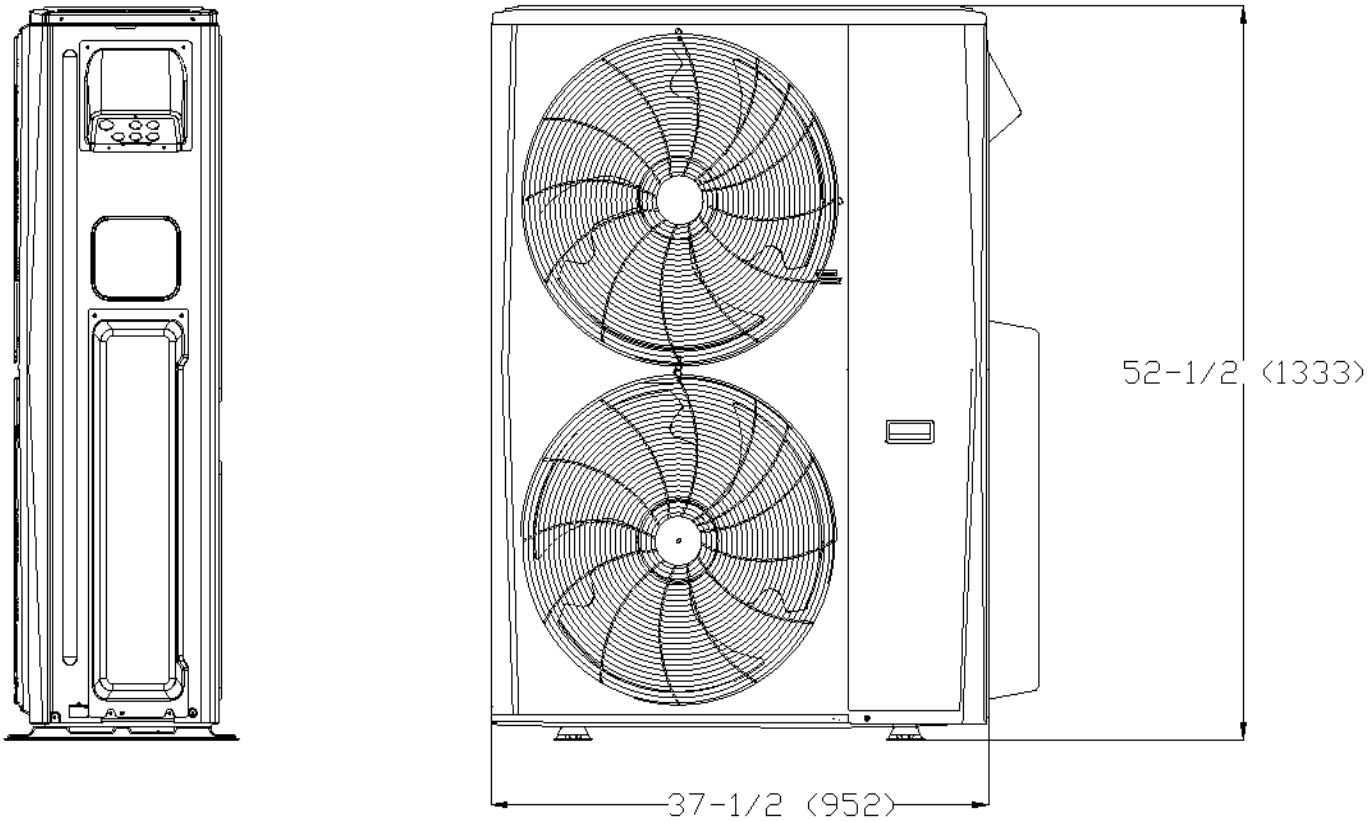
Panel Plate MO6HX-H48B-2A, MO6HX-H60B-2A, MO6EX-H48B-2A, MO6EX-H60B-2A, & MO6EX-H48B-2A

Unit: in. (mm)



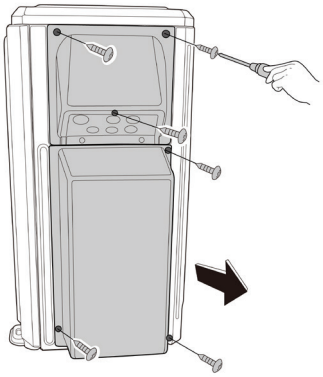
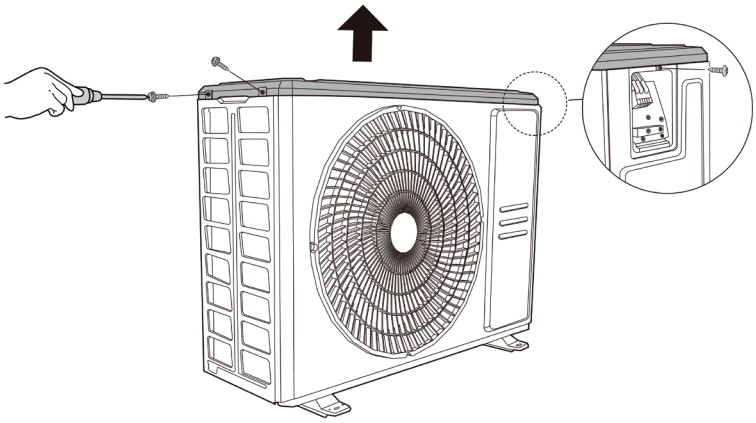
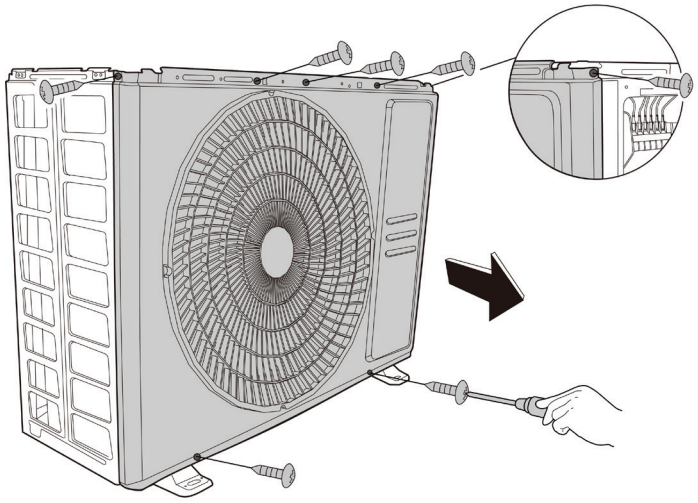
Panel Plate MO6HX-H48B-2A & MO6HX-H60B-2A

Unit: in. (mm)



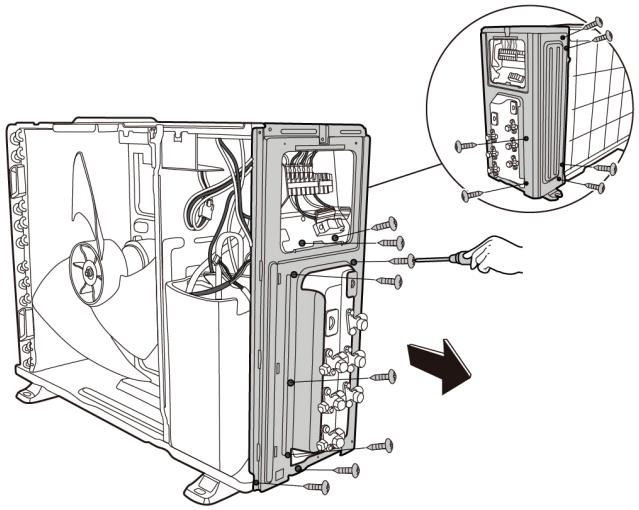
Outdoor Unit Disassembly

Panel Plate MO3EX-H18B-2A

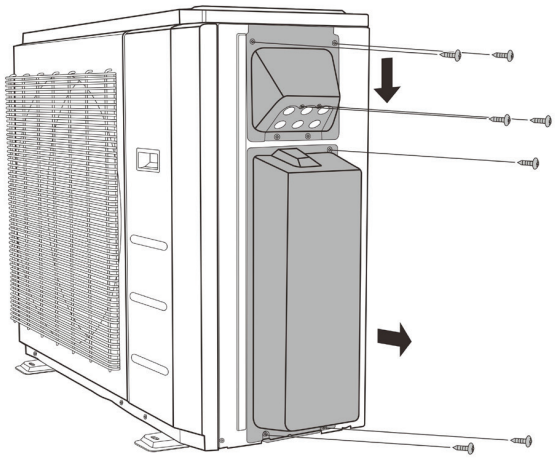
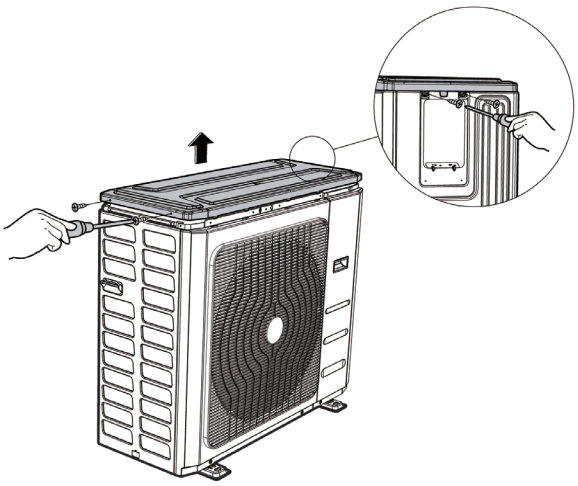
Proceedure	Illustration
1. Turn off the air conditioner and the power breaker. 2. Remove the screws of big handle assembly and water collector then remove them. (6 screws) (See CJ_Multi_X430_001).	 **CJ_Multi_X430_001**
3. Remove the screws of the top cover and then remove the top cover (3 screws). One of the screws is located underneath the big handle (See CJ_ Multi_X430_002).	 **CJ_Multi_X430_002**
4. Remove the screws of the front panel and then remove the front panel (7 screws) (See CJ_Multi_X430_003).	 **CJ_Multi_X430_003**

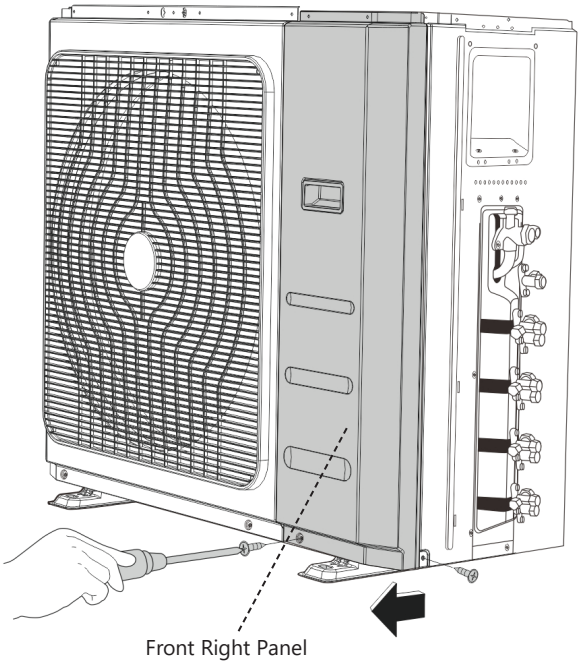
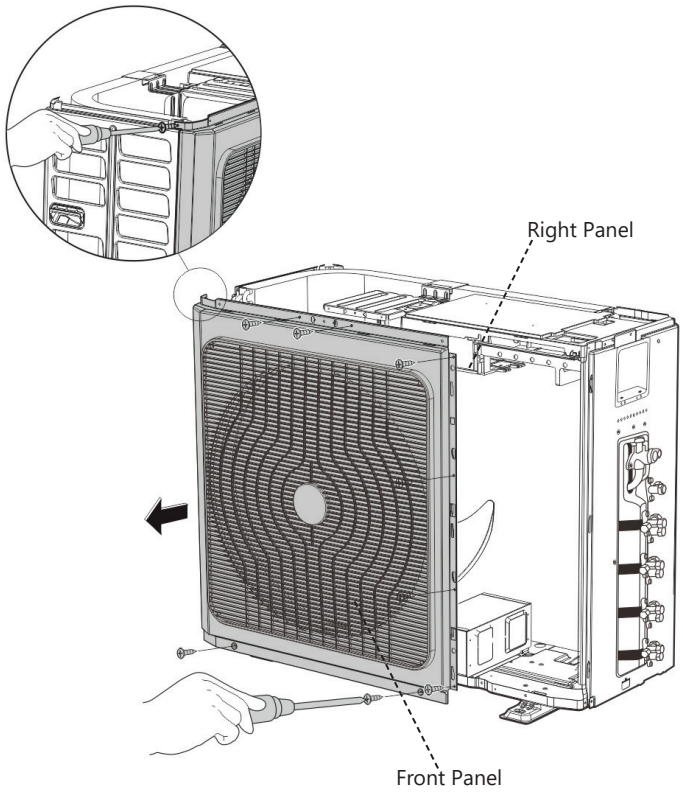
NOTE

This section is for reference only. Actual unit appearance may vary.

Proceedure	Illustration
5. Remove the screws of the right panel and then remove the right panel (14 screws, two of them are used to fix the optional rear net) (See CJ_Multi_ X430_004).	 **CJ_Multi_X430_004**

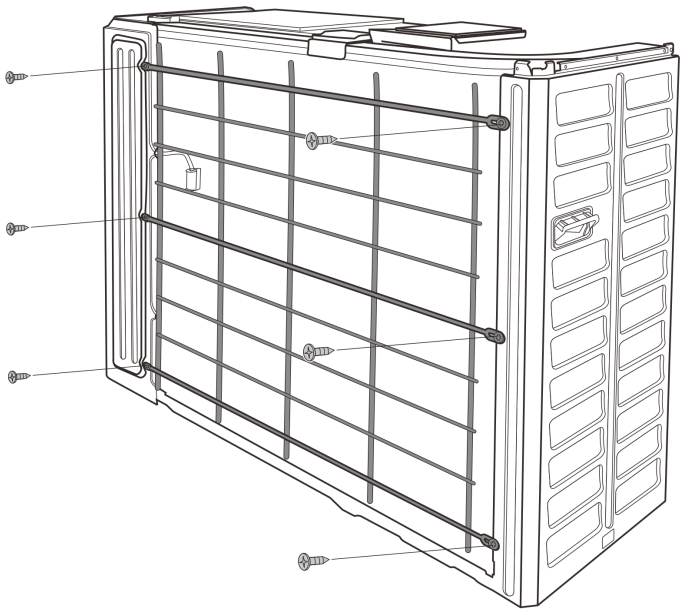
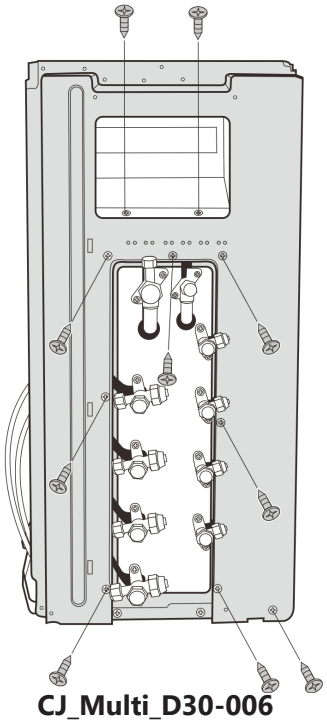
Panel Plate MO3HX-H18B-2A, MO4HX-H27B-2A, MO5HX-H36B-2A, MO4EX-H27B-2A, MO5EX-H36B-2A

Proceedure	Illustration
1. Turn off the air conditioner and the power breaker. 2. Remove four screws and then remove the big handle. 3. Remove three screws and then remove the water collecting cover. (See CJ_ Multi_D30-001).	 **CJ_Multi_D30-001**
4. Remove the screws of the top cover and then remove the top cover (4 screws). Two of the screws are located underneath the big handle (See CJ_ Multi_D30-002).	 **CJ_Multi_D30-002**

Proceedure	Illustration
5. Remove the screws of the front right panel and then remove the front right panel (2 screws) (See CJ_Multi_D30- 003).	 **CJ_Multi_D30-003**
6. Remove the screws of the front panel and then remove the front panel (9 screws) (See CJ_Multi_D30-004).	 **CJ_Multi_D30-004**

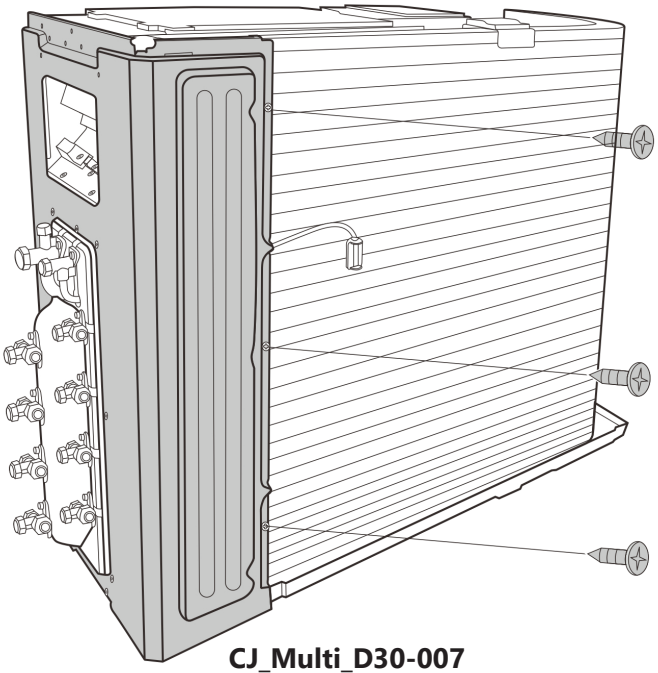
NOTE

This section is for reference only. Actual unit appearance may vary.

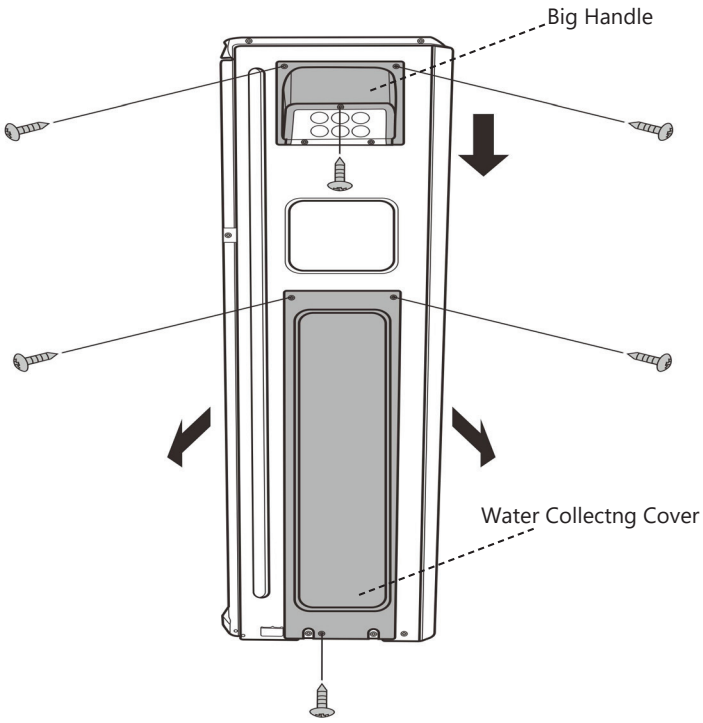
Proceedure	Illustration
7. Remove the screws of the rear net and then remove the rear net (6 screws) (See CJ_Multi_D30-005). (for some models)	 **CJ_Multi_D30-005**
8. Remove the screws of the right panel and then remove the right panel (12 screws) (See CJ_multi_D30-006 and CJ_Multi_D30-007).	 **CJ_Multi_D30-006**

NOTE

This section is for reference only. Actual unit appearance may vary.

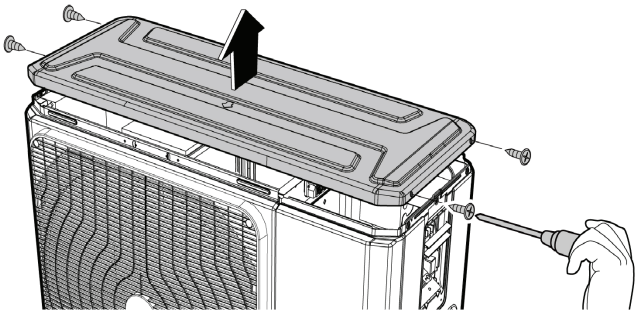
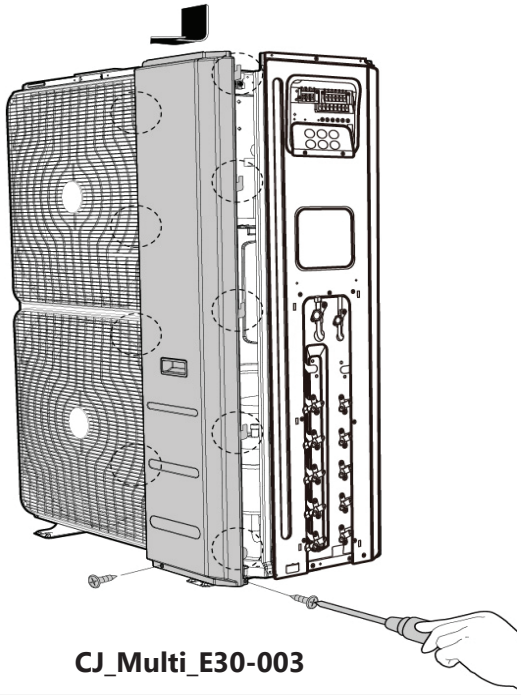
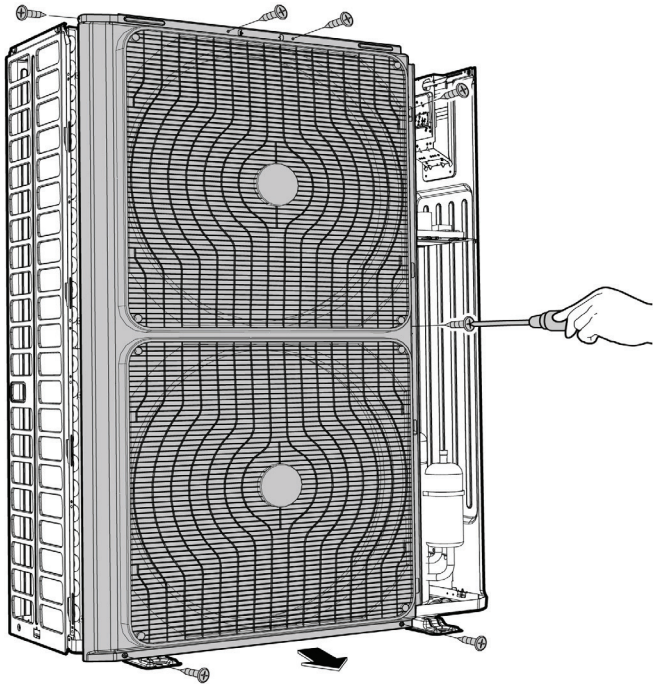
Proceedure	Illustration
	 CJ_Multi_D30-007

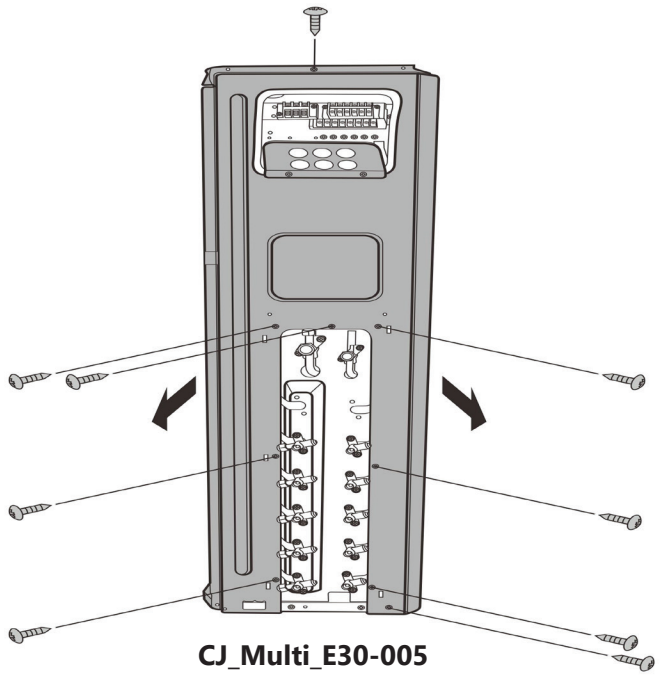
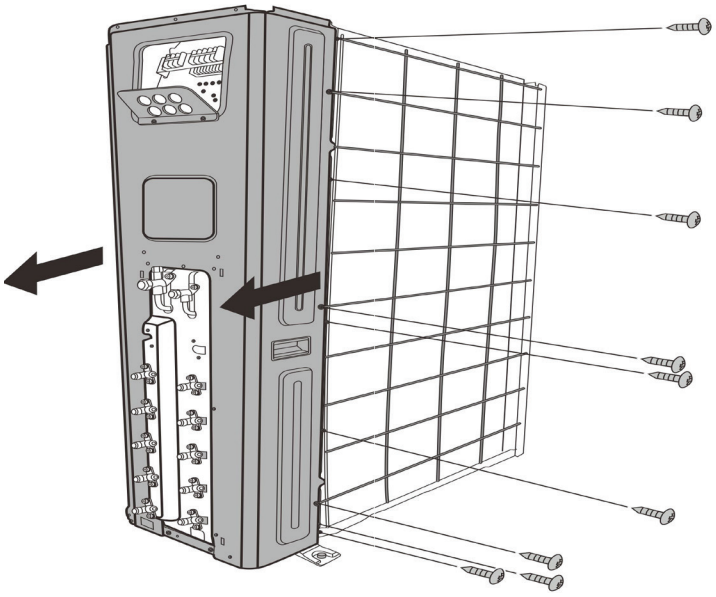
Panel Plate MO6HX-H48B-2A, MO6EX-H48B-2A, MO6HX-H60B-2A

Proceedure	Illustration
1. Turn off the air conditioner and the power breaker. 2. Remove the screws of the big handle and then remove it. (3 screws) (See CJ_Multi_E30-001). 3. Remove the screws of the water collecting cover and then remove it. (3 screws) (See CJ_Multi_E30-001).	 CJ_Multi_E30-001

NOTE

This section is for reference only. Actual unit appearance may vary.

Proceedure	Illustration
4. Remove the four screws of the top cover and then remove it. (See CJ_Multi_ E30-002).	 **CJ_Multi_E30-002**
5. Remove the two screws from the right front panel, and then push it down to unhook the right front panel from the nine hooks.(See CJ_Multi_E30- 003).	 **CJ_Multi_E30-003**
6. Remove the seven screws of the front panel and then remove the front panel (See CJ_Multi_E30-004).	 **CJ_Multi_E30-004**

Proceedure	Illustration
7. Remove the screws on the right side of the right panel. (9 screws) (See CJ_ Multi_E30-005).	 CJ_Multi_E30-005
8. Remove the screws on the back of the right panel and then remove the right panel and rear net. (9 screws). (See CJ_Multi_E30-006).	 CJ_Multi_E30-006

NOTE

This section is for reference only. Actual unit appearance may vary.

Electrical Parts

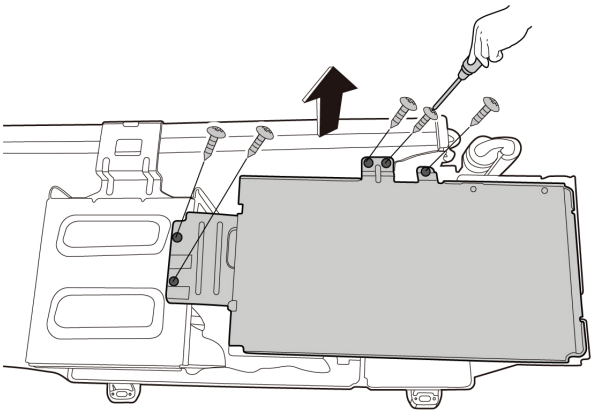
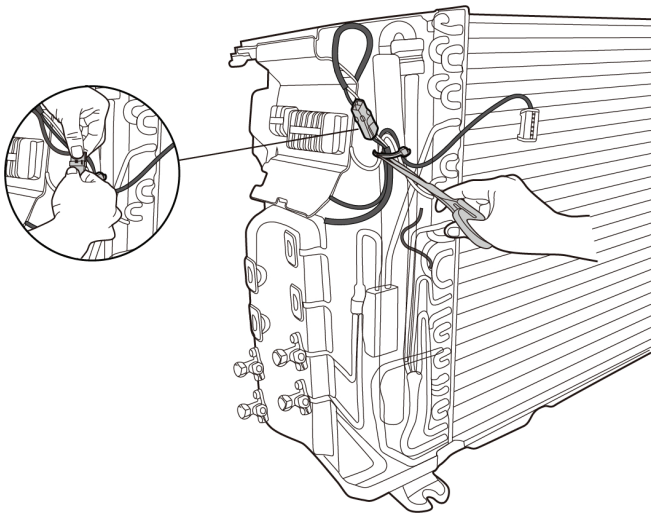
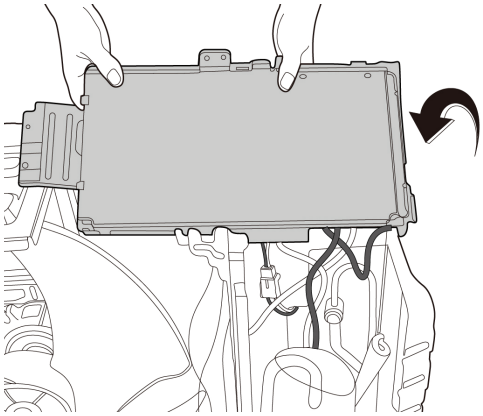
⚠ WARNING

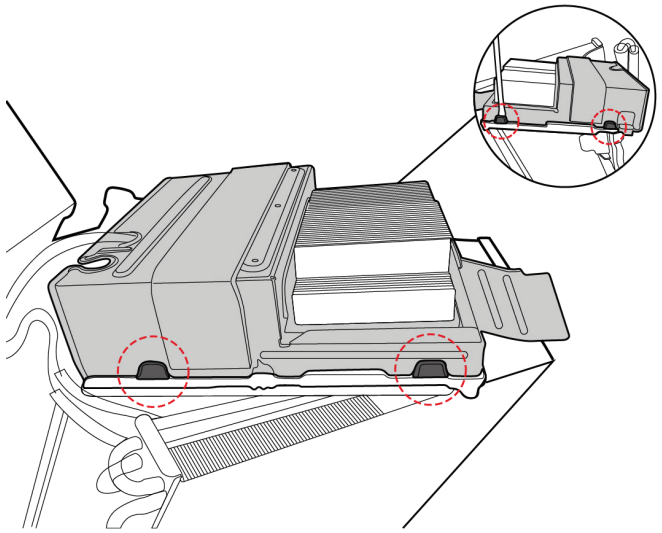
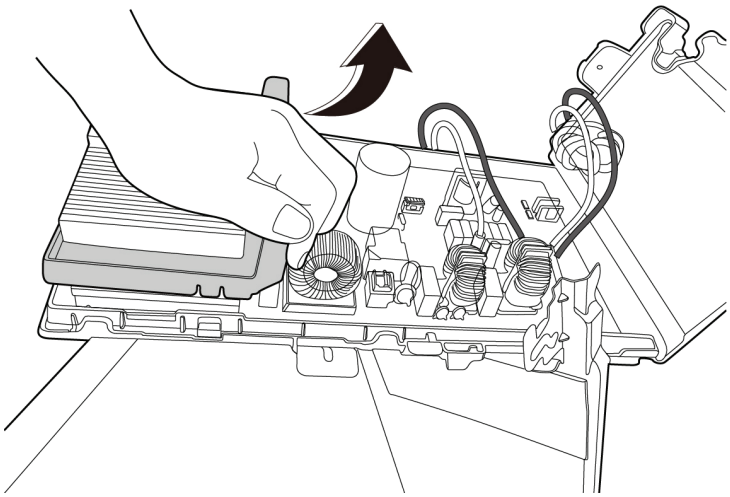
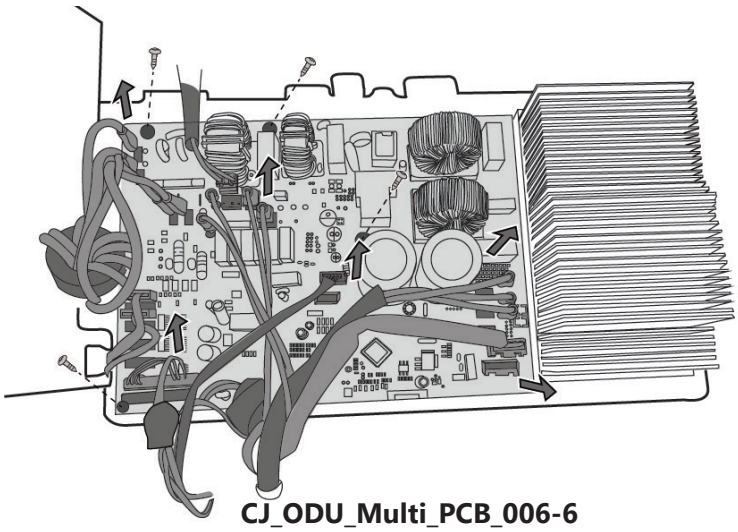
Antistatic gloves must be worn when you disassemble the electronic box.

NOTE

Remove the air outlet grille (See "Outdoor Unit Disassembly") before disassembling electrical parts.

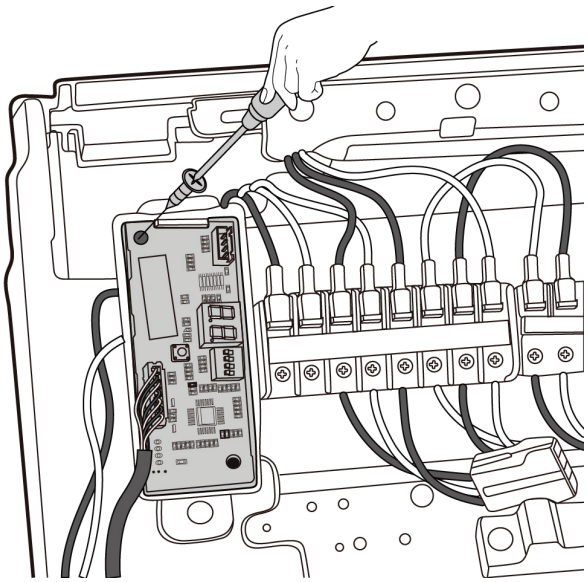
PCB Board 6

Proceedure	Illustration
1. Remove 5 screws of electrical control box cover and remove it. (See CJ_ ODU_Multi_PCB_006-1).	 **CJ_ODU_Multi_PCB_006-1**
2. Cut the ribbon with a shear and disconnect the 4-way valve connector. (See CJ_ODU_Multi_ PCB_006-2).	 **CJ_ODU_Multi_PCB_006-2**
3. Turn over the electronic control box subassembly. (See CJ_ODU_Multi_ PCB_006-3).	 **CJ_ODU_Multi_PCB_006-3**

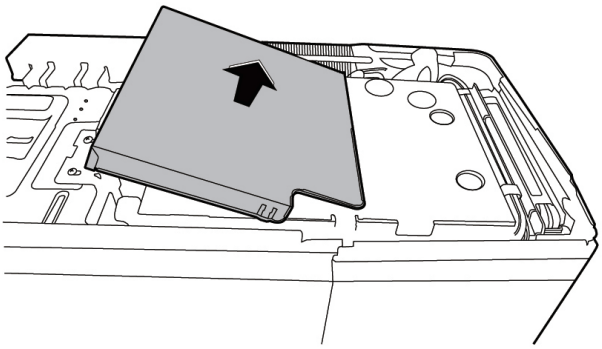
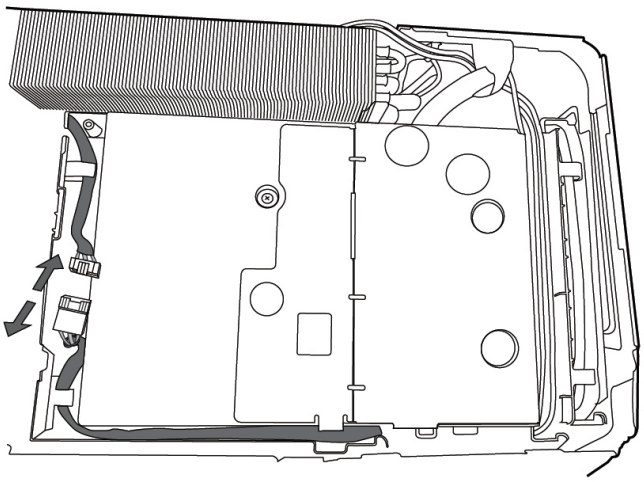
Proceedure	Illustration
4. Remove the electronic installing box subassembly (4 hooks) (See CJ_ODU_ Multi_PCB_006-4).	 CJ_ODU_Multi_PCB_006-4
5. Remove the support of the electronic control box. (See CJ_ODU_Multi_ PCB_006-5).	 CJ_ODU_Multi_PCB_006-5
6. Disconnect the connectors from the electronic control board (See CJ_ODU_Multi_PCB_006-6). 7. Remove 4 screws and then remove the electronic control board. (See CJ_ODU_Multi_PCB_006-6).	 CJ_ODU_Multi_PCB_006-6

NOTE

This section is for reference only. Actual unit appearance may vary.

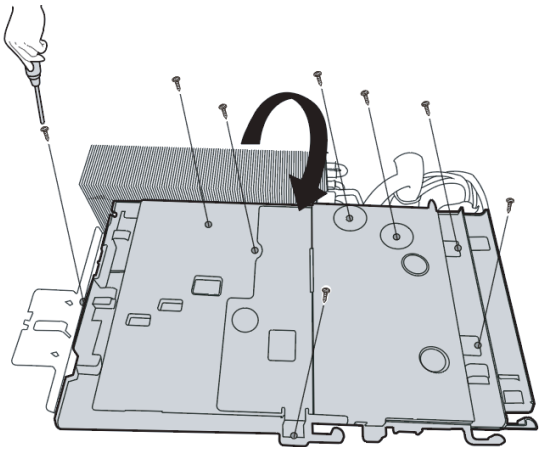
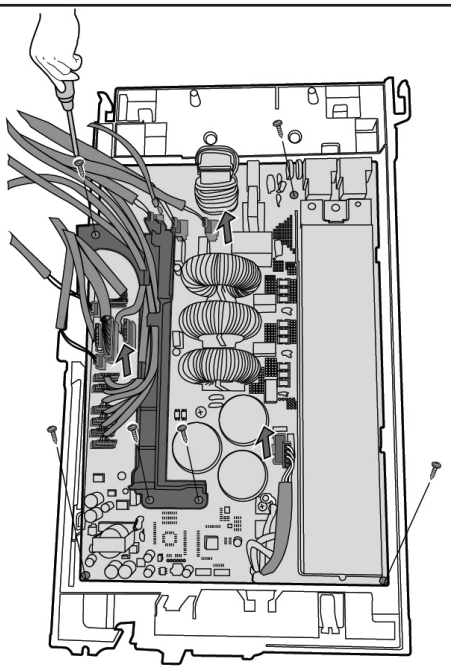
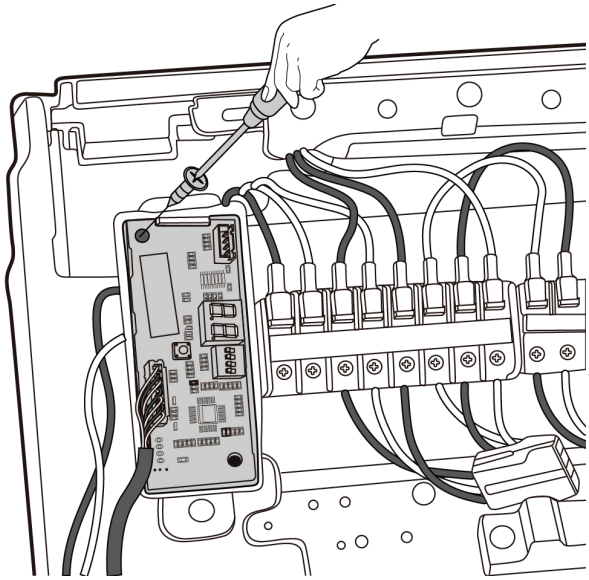
Proceedure	Illustration
8. Pull out the connector, remove one screw and then remove the key board subassembly on terminal board. (See CJ_Multi_PCB_006-7).	 CJ_Multi-PCB_006-7

PCB Board 9

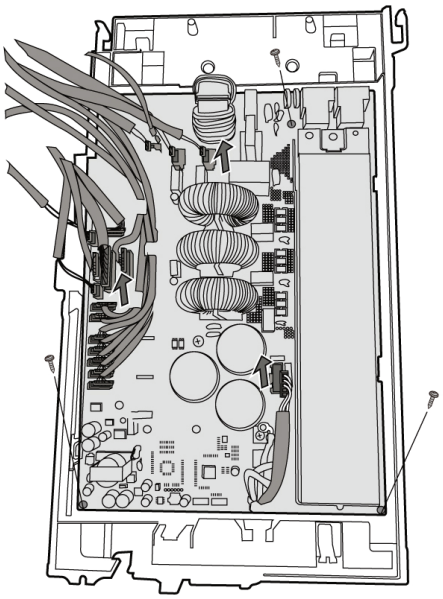
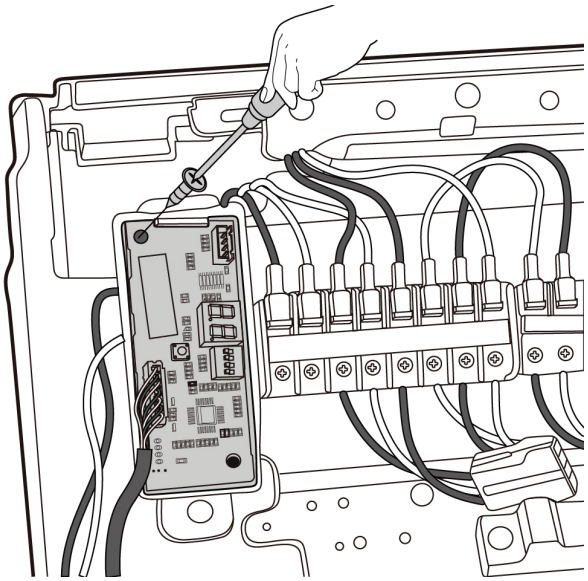
Proceedure	Illustration
1. Remove the cover of the electrical control box. (See CJ_ODU_Multi_ PCB_009-1).	 CJ_ODU_Multi_PCB_009-1
2. Disconnect the fan motor connector. (See CJ_ODU_ Multi_PCB_009-2).	 CJ_ODU_Multi_PCB_009-2

NOTE

This section is for reference only. Actual unit appearance may vary.

Proceedure	Illustration
3. Remove eight fixing screws. 4. Turn over the electronic control box subassembly. (See CJ_ODU_Multi_ PCB_009-3).	 **CJ_ODU_Multi_PCB_009-3**
5. Remove 3 screws and then remove the bracket. (See CJ_ODU_Multi_ PCB_009-4). 6. Disconnect the connectors from the electronic control board (See CJ_ODU_Multi_PCB_009-4). 7. Remove 3 screws and then remove the electronic control board. (See CJ_ODU_Multi_PCB_009-4).	 **CJ_ODU_Multi_PCB_009-4**
8. Pull out the connector, remove one screw and then remove the key board subassembly on terminal board. (See CJ_Multi_PCB_009-5).	 **CJ_ODU_Multi_PCB_009-5**

PCB Board 10

Proceedure	Illustration
9. Disconnect the connectors from the electronic control board (See CJ_ODU_Multi_PCB_010-1). 10. Remove 3 screws and then remove the electronic control board.(See CJ_ODU_Multi_PCB_010-1).	 **CJ_ODU_Multi_PCB_010-1**
11. Pull out the connector, remove one screw and then remove the key board subassembly on terminal board. (See CJ_Multi_PCB_010-2).	 **CJ_ODU_Multi_PCB_010-2**

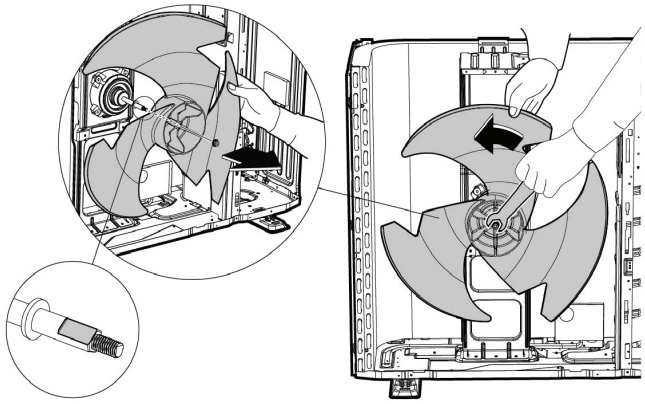
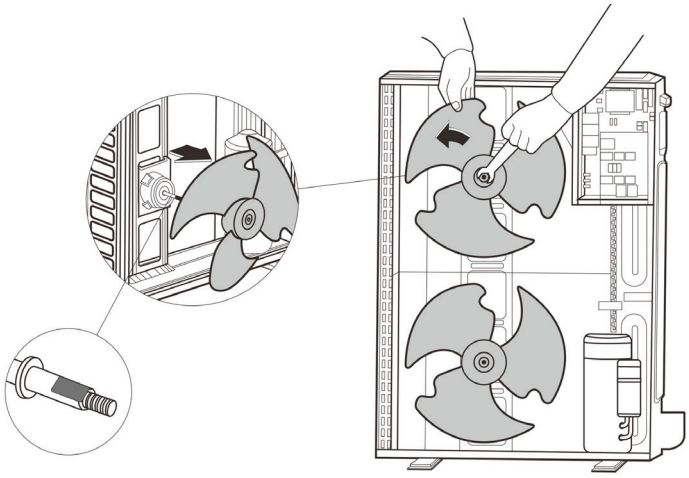
NOTE

This section is for reference only. Actual unit appearance may vary.

Fan Assembly

NOTE

Remove the air outlet grille (See “Outdoor Unit Disassembly”) before disassembling the fan.

Proceedure	Illustration
1. Remove the nut by securing the fan with a spanner. (See CJ_ODU_ FAN_001-1 & 2). 2. Remove the fan.	 **CJ_ODU_FAN_001-1**  **CJ_ODU_FAN_001-2**

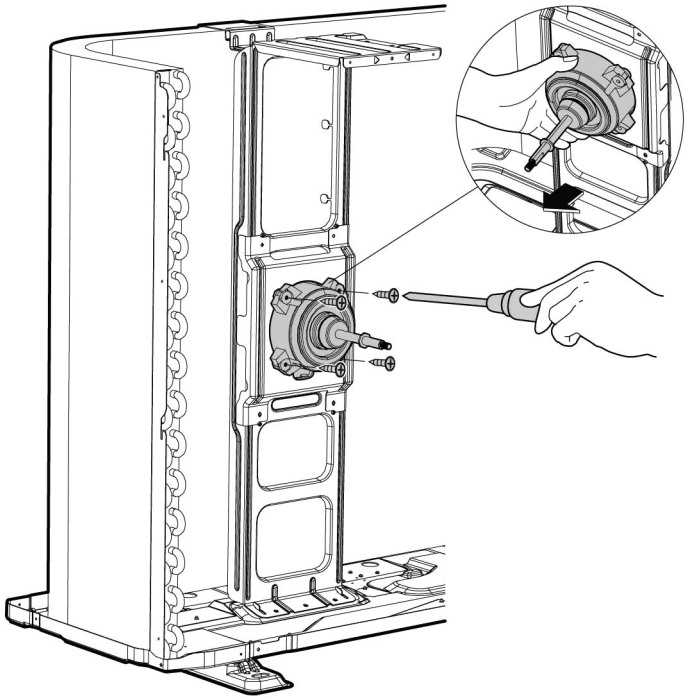
NOTE

This section is for reference only. Actual unit appearance may vary.

Fan Motor

NOTE

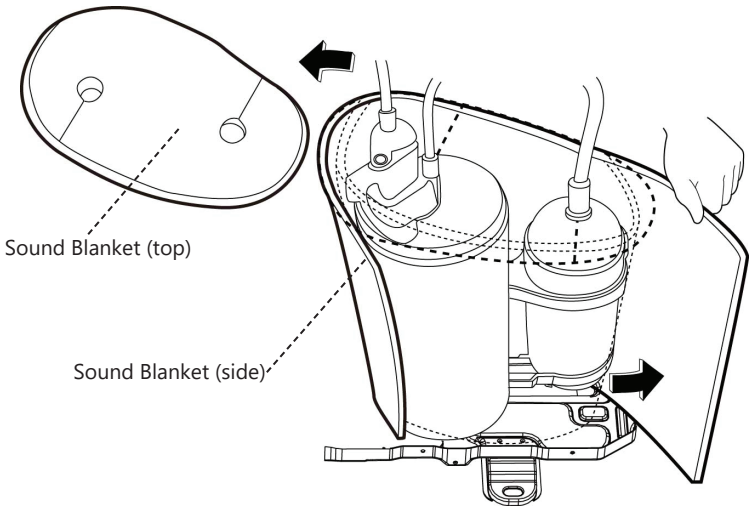
Remove the panel plate and the connection of the fan motor on the PCB (See "Outdoor Unit Disassembly" and "Electrical Parts") before disassembling the fan motor.

Proceedure	Illustration
3. Remove the fixing screws of the fan motor (4 screws) (See CJ_ODU_MOTOR_001). 4. Remove the fan motor.	 CJ_ODU_MOTOR_001

Sound blanket

NOTE

Remove the panel plate and the connection of the fan motor on the PCB (See "Outdoor Unit Disassembly") before disassembling the sound blanket.

Proceedure	Illustration
1. Remove the sound blanket (side and top) (See CJ_ODU_BLANKET_001).	 CJ_ODU_BLANKET_001

NOTE

This section is for reference only. Actual unit appearance may vary.

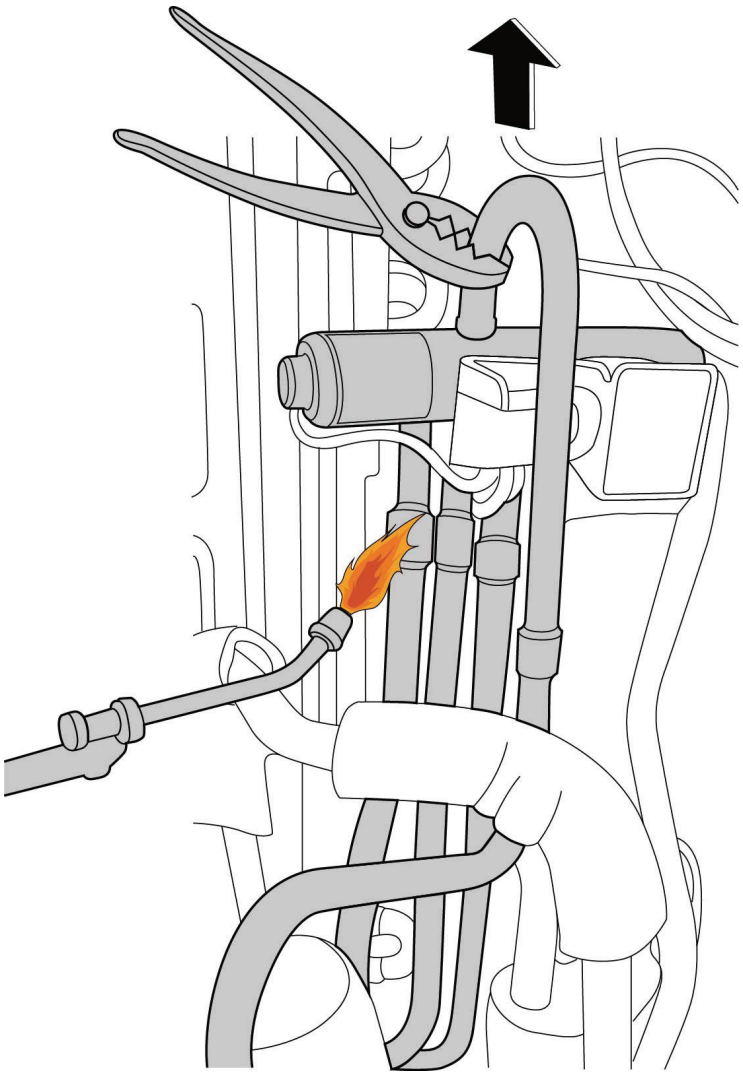
Four-Way Valve (For Heat Pump Models)

⚠ WARNING

Evacuate the system and confirm that there is no refrigerant left in the system before removing the four-way valve and the compressor. (For R32 & R290, you should evacuate the system with the vacuum pump; flush the system with nitrogen; then repeat the two steps before heating the brazed parts. The operations above should be implemented by professionals.)

NOTE

Remove the panel plate and connection of the four-way valve on PCB (See "Outdoor Unit Disassembly" and "Electrical Parts") before disassembling the four-way valve.

Proceedure	Illustration
1. Heat the brazed parts and then detach the four-way valve and the pipe (See CJ_ODU_VALVE_001). 2. Remove the four-way valve assembly with pliers.	 CJ_ODU_VALVE_001

NOTE

This section is for reference only. Actual unit appearance may vary.

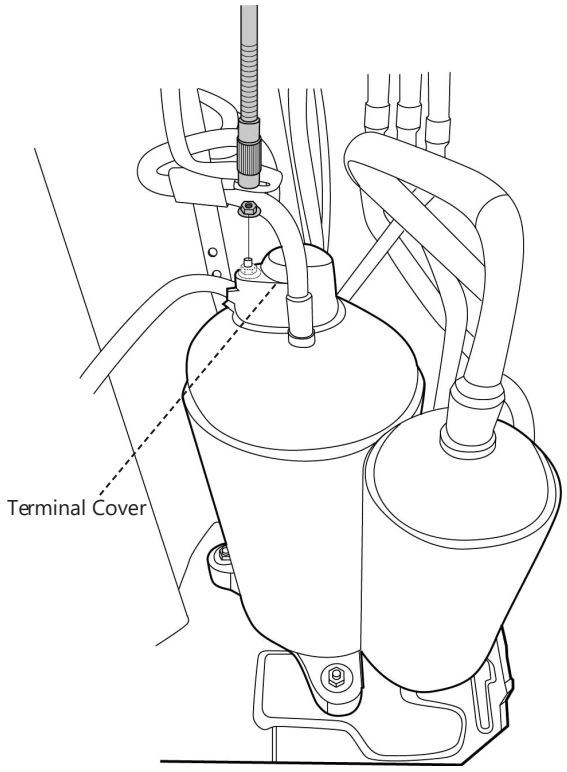
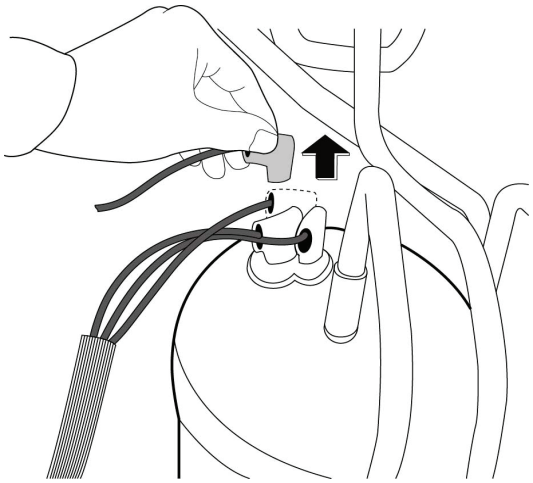
Compressor

⚠ WARNING

Evacuate the system and confirm that there is no refrigerant left in the system before removing the four-way valve and the compressor. (For R32 & R290, you should evacuate the system with the vacuum pump; flush the system with nitrogen; then repeat the two steps before heating up the brazed parts. The operations above should be implemented by professionals.)

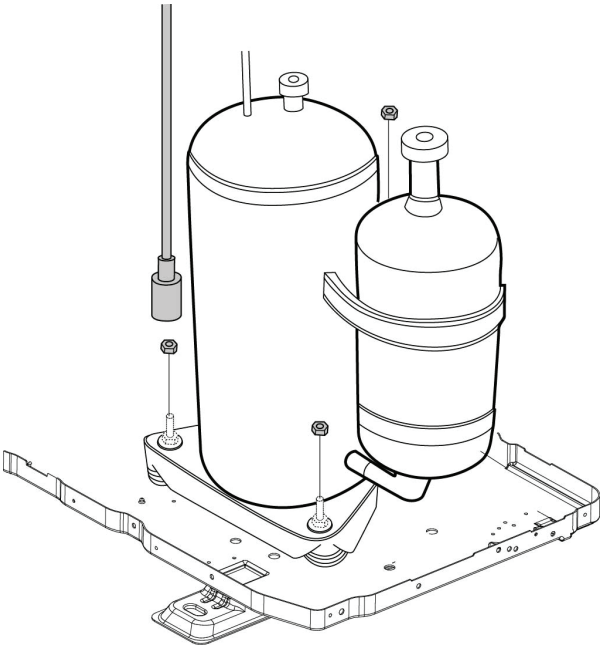
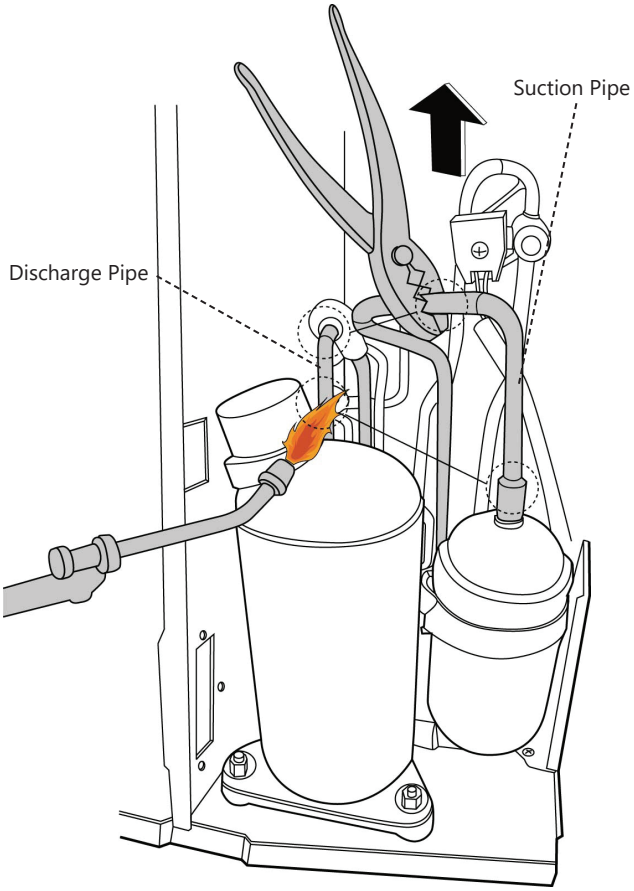
NOTE

Remove the panel plate and connection of the four-way valve on PCB (See "Outdoor Unit Disassembly" and "Electrical Parts") before disassembling the compressor.

Proceedure	Illustration
1. Remove the flange nut of terminal cover and remove the terminal cover (See CJ_ ODU_ COMP_001).	 CJ_ODU_COMP_001
2. Disconnect the connectors (See CJ_ODU_ COMP_002).	 CJ_ODU_COMP_002

NOTE

This section is for reference only. Actual unit appearance may vary.

Proceedure	Illustration
3. Remove the hex nuts and washers securing the compressor, located on the bottom plate (See CJ_ODU_COMP_003).	 **CJ_ODU_COMP_003**
4. Heat up the brazed parts and then remove the discharge pipe and the suction pipe (See CJ_ODU_COMP_004). 5. Lift the compressor from the base pan assembly with pliers.	 **CJ_ODU_COMP_004**

NOTE

This section is for reference only. Actual unit appearance may vary.

Troubleshooting

⚠ WARNING Be sure to turn off all power supplies or disconnect all wires to avoid electric shock. While checking indoor/outdoor PCBs, please equip yourself with antistatic gloves or wrist strap to avoid damage to the board.

Electricity remains in capacitors even when the power supply is off. Ensure the capacitors are fully discharged before troubleshooting.

General Troubleshooting

Error Display

Display	Malfunction or Protection	Solution
dF	Defrosting	Normal Display, not error code
FC	Forced cooling	
EC07	ODU fan speed out of control	page 71
EC71	Over current failure of outdoor DC fan motor	
EC72	Lack phase failure of outdoor DC fan motor	page 86
EC50	ODU temp. sensor error (T3,T4.TP)	page 73
EC51	ODU EEPROM parameter error	page 68
EC52	ODU coil temp. sensor (T3) error	page 73
EC53	ODU ambient temp. sensor (T4) error	
EC54	COMP. discharge temp. sensor (TP) error	
EC55	ODU IPM module temperature sensor malfunction	page 89
EC56	IDU coil outlet temp. sensor (T2B) error	page 73
EC57	Refrigerant pipe temperature sensor error	
EC5A	Failure of enthalpy inlet temperature sensor	
EC5b	Failure of enthalpy outlet temperature sensor	
EC5E	Condenser temperature sensor (T3B) failure	
EC5C	Pressure sensor failure	page 90
EHC1	Refrigerant sensor detects leakage	page 88
EL01	IDU & ODU communication error	page 69
PC00	IPM module protection	page 76
PC02	Compressor top (or IPM) temp. protection	page 83
PC06	Discharge temperature protection of compressor	page 81
PC08	Outdoor overcurrent protection	page 74
PC0A	High temperature protection of condenser	page 82
PC0F	PFC module protection	page 80
PC0L	Low ambient temperature protection	--
PC10	ODU low AC voltage protection	page 78
PC11	ODU main control board DC bus high voltage protection	
PC12	ODU main control board DC bus low voltage protection /341 MCE error	
PC13	The AC power is cut off or the AC voltage detection circuit fails	page 90
PC30	System high pressure protection	page 84
PC31	System low pressure protection	page 85
PC40	Communication error between ODU main chip and compressor driven chip	page 79
PC43	ODU compressor lack phase protection	page 87
PC44	ODU zero speed protection	page 74
PC45	ODU IR chip drive failure	page 87
PC46	Compressor speed has been out of control	page 74
PC49	Compressor overcurrent failure	
PCA1	Condensation protection of refrigerant pipe	page 91
LC06	High temperature protection of Inverter module (IPM)	page 83

Outdoor Unit Point Check Function

- A check switch is included on the auxiliary PCB.
- Push SW1 to check the unit's status while running. The digital display shows the following codes each time the SW1 is pushed.

Number of Presses	Display	Remark
0	Normal display	Displays running frequency, running state, or malfunction code
1	Quantity of indoor units with working connection	Display Number of indoor unit
2	Outdoor unit running mode code	Stanby: 0, Fan only: 1, Cooling/Drying: 2, Heating: 3, Forced cooling: 6, Forced defrostling: A
3	Indoor unit A capacity	The capacity unit is horse power. If the indoor unit is not connected, the digital display shows the following: "--" (6K:0.6HP, 7K:0.8HP, 9K:1.0HP, 12K:1.2HP, 18K:1.5HP, 24K:2.5HP, 30K:3.0HP, 36K:3.2HP)
4	Indoor unit B capacity	
5	Indoor unit C capacity	
6	Indoor unit D capacity	
7	Indoor unit E capacity	
8	Indoor unit A capacity demand code	Norm code*HP (6K: 0.6HP, 7K: 0.8HP, 9K: 1.0HP, 12K: 1.2HP, 18K: 1.5HP, 24K: 2.5HP, 30K: 3.0HP, 36K: 3.2HP)
9	Indoor unit B capacity demand code	
10	Indoor unit C capacity demand code	
11	Indoor unit D capacity demand code	
12	Indoor unit E capacity demand code	
13	Outdoor unit amendatory capacity demand code	
14	The frequency corresponding to the total indoor units' amendatory capacity demand	
15	The frequency after the frequency limit	
16	The frequency sending to compressor control chip	
17	Indoor unit A evaporator outlet temperature (T2BA)	If the temperature is lower than 15.8°F (-9°C), the digital display shows "15.8 (-9)." If the temperature is higher than 158°F (70°C), the digital display shows "158 (70)." If the indoor unit is not connected, the digital display shows: "--"
18	Indoor unit B evaporator outlet temperature (T2BB)	
19	Indoor unit C evaporator outlet temperature (T2BC)	
20	Indoor unit D evaporator outlet temperature (T2BD)	
21	Indoor unit E evaporator outlet temperature (T2BE)	
22	Indoor unit A room temperature (T1A)	If the temperature is lower than 32°F (0°C), the digital display shows "32 (0)." If the temperature is higher than 158°F (70°C), the digital display shows "158 (70)." If the indoor unit is not connected, the digital display shows: "--"
23	Indoor unit B room temperature (T1B)	
24	Indoor unit C room temperature (T1C)	
25	Indoor unit D room temperature (T1D)	
26	Indoor unit E room temperature (T1E)	
27	Indoor unit A evaporator temperature (T2A)	If the temperature is lower than 15.8°F (-9°C), the digital display shows "15.8 (-9)." If the temperature is higher than 158°F (70°C), the digital display shows "158 (70)." If the indoor unit is not connected, the digital display shows: "--"
28	Indoor unit B evaporator temperature (T2B)	
29	Indoor unit C evaporator temperature (T2C)	
30	Indoor unit D evaporator temperature (T2D)	
31	Indoor unit E evaporator temperature (T2E)	
32	Condenser pipe temperature (T3)	
33	Outdoor ambient temperature (T4)	
34	Compressor discharge temperature (TP)	The display value is between 86-264.2°F (30–129°C). If the temperature is lower than 86°F (30°C), the digital display shows "86 (30)." If the temperature is higher than 210.2°F (99°C), the digital display shows single and double digits. For example, If the display shows 0.5, so 0.5 multipled by 10 to become 5, then added to 100 to become 221°F (105°C).
35	AD value of current	The display value is a hex number. For example, the digital display tube shows "Cd", so C*161+d*160=12*16+13=205, which means the AD value is 205. AD value is detected by the chip. for M5OX631-36HFN10-M1XD&M5OX631-36HFN10-M1X, actual AD value is AD value plus 60
36	AD value of AC voltage	
37	AD value of DC voltage	

Number of Presses	Display	Remark		
38	EXV open angle for A indoor unit	Actual data/4. If the value is higher than 99, the digital display shows single and double digits. For example, if the digital display shows “2.0”, then 2.0 multiplied by 10 to become 20, then added to 100 to become 120, the EXV open angle is 120×4=480p.		
39	EXV open angle for B indoor unit			
40	EXV open angle for C indoor unit			
41	EXV open angle for D indoor unit			
42	EXV open angle for E indoor unit			
43	MVI open angle (for some models)			
44	EXI open angle (for some models)			
45	Frequency limit symbol	Bit7	Reserved	The display value is a hexidecimal number. For example, the digital display show 2A, the corresponding binary is 101010, so Bit5=1, Bit3=1, and Bit1=1. This means that a frequency limit may be caused by current, IPM or T3.
		Bit6	Frequency limit caused by voltage	
		Bit5	Frequency limit caused by current.	
		Bit4	Reserved	
		Bit3	Frequency limit caused by IPM.	
		Bit2	Frequency limit caused by Compressor discharge temperature (T5)	
		Bit1	Frequency limit caused by Outdoor heat exchanger pipe temperature (T3)	
		Bit0	Frequency limit caused by Middle indoor heat exchanger coil temperature (T2)	
46	T2B fault	00: No fault,01: T2B-A fault, ,02: T2B-B fault ,03: T2B-C fault,04: T2B-D fault, 05: T2B-E fault, 06: T2B-F fault (The display priority is A-B-C-D-E-F)		
47	Average value of T2	(Sum T2 value of all indoor units)/(number of indoor units in good connection) (The heating is the average value of T2, and the cooling is the average value of T2B) If the temperature is lower than -9°C, the digital display shows “-9”.		
48	Outdoor unit fan speed	See next list		
49	Reason of stop			
50~59	Reserved			
60	Air injection enthalpy inlet temperature (for Xtreme heat models)	If the temperature is lower than 15.8°F (-9°C), the digital display shows “15.8 (-9)”. If the temperature is higher than 158°F (70°C), the digital display shows “158 (70).” If the indoor unit is not connected, the digital display shows: “--”		
61	Air injection enthalpy outlet temperature (for Xtreme heat models)			
62	Condenser coil middle temperature (for Xtreme heat models)			
63	Refrigerant tube inlet temperature (for Xtreme heat models)			
64	Target discharge temperature	The display value is between 32-390.2°F (0–199°C). If the temperature is lower than 86°F (30°C), the digital display shows “86 (30).” If the temperature is higher than 210.2°F (99°C), the digital display shows single and double digits. For example, If the display shows 0.5, so 0.5 multiplied by 10 to become 5, then added to 100 to become 105°C.		
65	Indoor unit F capacity	The capacity unit is horse power. If the indoor unit is not connected, the digital display shows the following: “--”		
66	Indoor unit F capacity demand code	Norm code*HP (9K: 1HP,12K: 1.2HP,18K: 1.5HP)		
67	Indoor unit F evaporator outlet temperature (T2BF)	If the temperature is lower than 15.8°F (-9°C), the digital display shows “15.8 (-9)”. If the temperature is higher than 158°F (70°C), the digital display shows “158 (70).” If the indoor unit is not connected, the digital display shows: “--”		
68	Indoor unit F room temperature (T1F)	If the temperature is lower than 32°F (0°C), the digital display shows “0.” If the temperature is higher than 70oC, the digital display shows “70.” If the indoor unit is not connected, the digital display shows: “--”		
69	Indoor unit F evaporator temperature (T2F)	If the temperature is lower than 15.8°F (-9°C), the digital display shows “15.8 (-9)” If the temperature is higher than 158°F (70°C), the digital display shows “158 (70).” If the indoor unit is not connected, the digital display shows: “--”		

Number of Presses	Display	Remark
70	EXV open angle for F indoor unit	Actual data/4. If the value is higher than 99, the digital display shows single and double digits.
71	IPM module temperature	The display value is between 32-390.2°F (0–199°C). If the temperature is higher than 210.2°F (99°C), the digital display shows single and double digits. For example, If the display shows 5.0, so 5.0 multiplied by 10 to become 50, then added to 100 to become 150°C.
72	The high pressure sensor detects the pressure corresponding to the condensation temperature (Tc)	The digital display shows: "--"
73	Reserved	
74		

Outdoor Unit Fan Speed Corresponding Table:

Outdoor Unit Fan Speed	Display
>600 rpm	02
>300 rpm &<= 600 rpm	03
<=300 rpm	04

Quick Maintenance by Error Code

If you do not have the time to test which specific parts are faulty, you can directly change the required parts according to the error code. You can find the parts to be replaced by the error code in the following tables.

Part requiring replacement	Error Code											
	EL01	EC50	EC51	EC52	EC53	EC54	EC55	EC56	EC57	EC5A	EC5b	EC5E
Indoor PCB	√	x	x	x	x	x	x	x	x	x	x	x
Outdoor PCB	√	√	√	√	√	√	√	√	√	√	√	√
ODU coil temp. sensor	x	√	x	√	x	x	x	x	x	x	x	x
ODU ambient temp. sensor	x	√	x	x	√	x	x	x	x	x	x	x
COMP. discharge temp. sensor	x	√	x	x	x	√	x	x	x	x	x	x
IPM module temperature sensor	x	x	x	x	x	x	√	x	x	x	x	x
IDU coil outlet temp. sensor	x	x	x	x	x	x	x	√	x	x	x	x
Refrigerant pipe temperature sensor	x	x	x	x	x	x	x	x	√	x	x	x
Enthalpy inlet temperature sensor	x	x	x	x	x	x	x	x	x	√	x	x
Enthalpy outlet temperature sensor	x	x	x	x	x	x	x	x	x	x	√	x
Condenser temperature sensor	x	x	x	x	x	x	x	x	x	x	x	
Reactor	√	x	x	x	x	x	x	x	x	x	x	x
IPM module board	√	x	x	x	x	x	x	x	x	x	x	x

Part requiring replacement	Error Code									
	EC5c	EHC1	EC07/ EC71	PC00	PC01/ PC10/ PC11/ PC12	PC02	PC08/ PC44/ PC46/ PC49	PC13	PCA1	PC0F
Outdoor PCB	√	x	√	√	√	√	√	√	√	√
Outdoor fan motor	x	x	√	√	x	x	√	x	x	x
Reactor or inductance	x	x	x	√	√	x	√	x	x	
Compressor	x	x	x	√	x	x	x	x	x	x
IPM module board	x	x	x	√	√	x	√	x	x	x
Bridge rectifier	x	x	x	√	√	x	√	x	x	x
Pressure sensor	√	x	x	x	x	x	x	x	x	x
PFC module	x	x	x	x	x	x	x	x	x	√
Additional refrigerant	x	√	x	x	x	x	x	x	x	x
Over load protector	x	x	x	x	x	√	x	x	x	x
ODU ambient temp. sensor	x	x	x	x	x	x	x	x	√	x
Refrigerant pipe temperature sensor	x	x	x	x	x	x	x	x	√	x

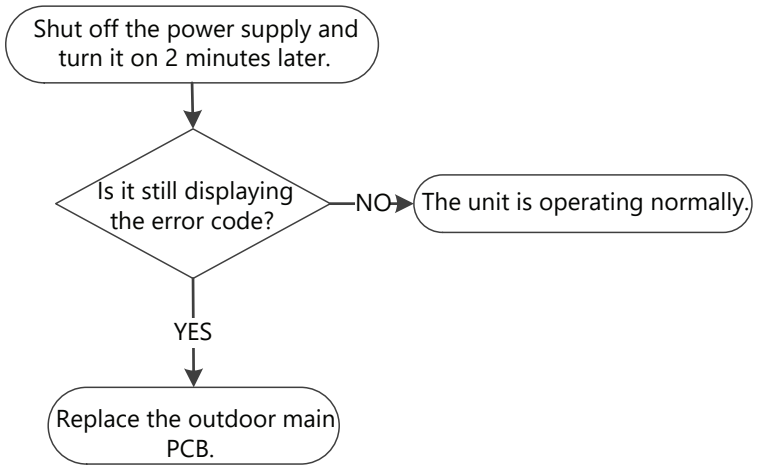
Part requiring replacement	Error Code							
	PC40	EC72	PC43	PC45	PC06	PC0a	PC30	PC31
Outdoor PCB	√	√	√	x	√	√	√	√
Outdoor fan motor	x	√	x	x	x	√	√	√
ODU coil temp. sensor	x	x	x	x	x	√	x	x
COMP. discharge temp. sensor	x	x	x	x	√	x	x	x
Compressor	x	x	√	x	x	x	x	x
IPM module board	x	x	x	√	x	x	x	x
Additional refrigerant	x	x	x	x	√	√	x	√
Electric control box	√	x	x	x	x	x	x	x
High pressure switch	x	x	x	x	x	x	√	x
Low pressure switch	x	x	x	x	x	x	x	√

Troubleshooting by Error Code

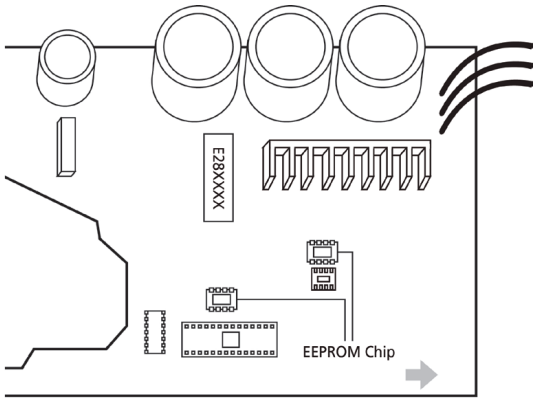
EC51 (ODU EEPROM parameter error diagnosis and solution)
Description: The Indoor or outdoor PCB main chip does not receive feedback from the EEPROM chip.
Recommended parts to prepare:

- Indoor PCB
- Outdoor PCB

Troubleshooting and repair:



Remarks:
EEPROM: A read-only memory whose contents can be erased and reprogrammed using a pulsed voltage.
The location of the EEPROM chip on the outdoor PCB is shown in the following image:



These pictures are only for reference; actual appearance may vary.

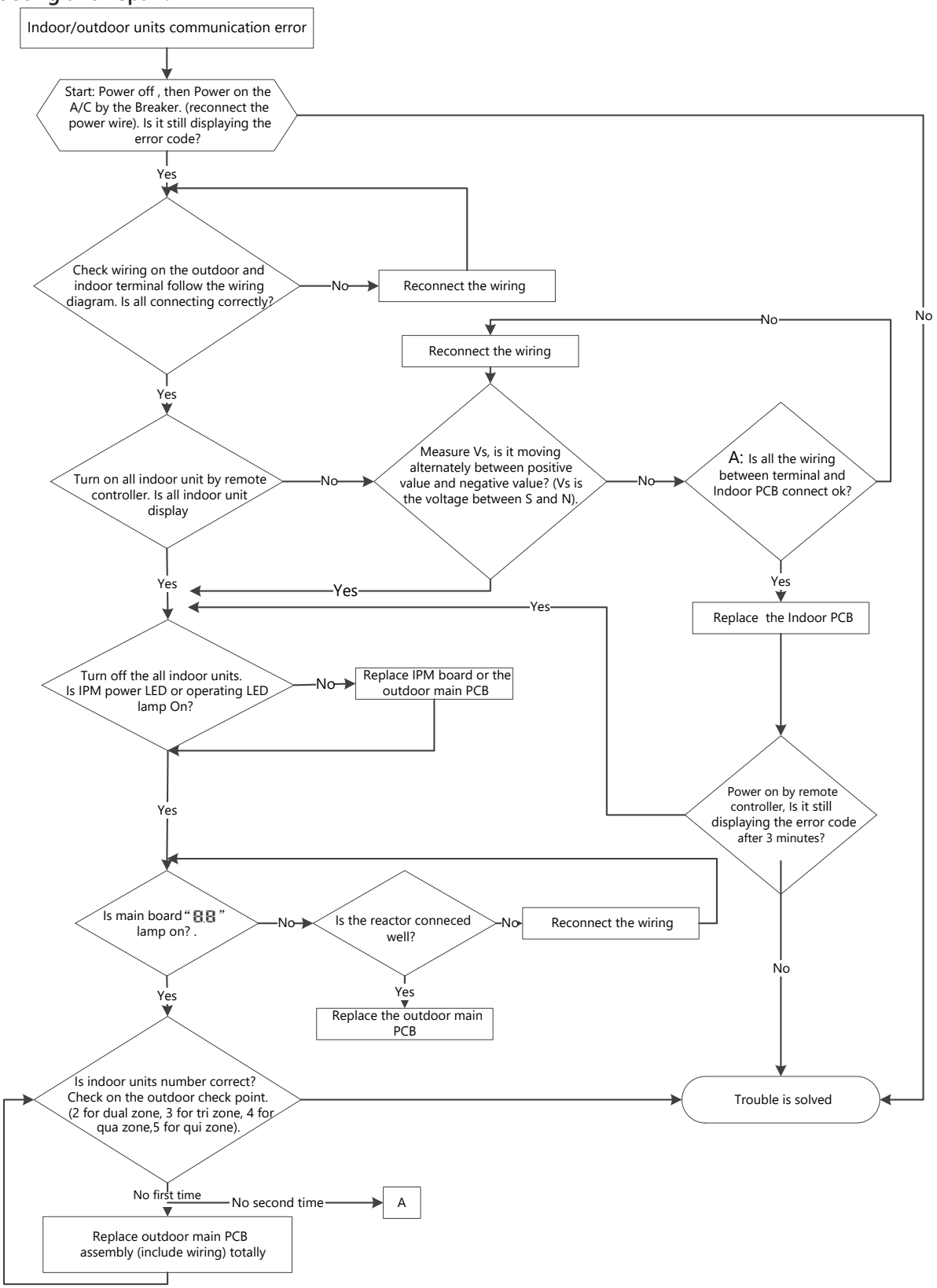
EL01 (IDU & ODU communication error diagnosis and solution)

Description: The Indoor unit does not receive feedback from the outdoor unit for 110 seconds, and this condition occurs four times consecutively.

Recommended parts to prepare:

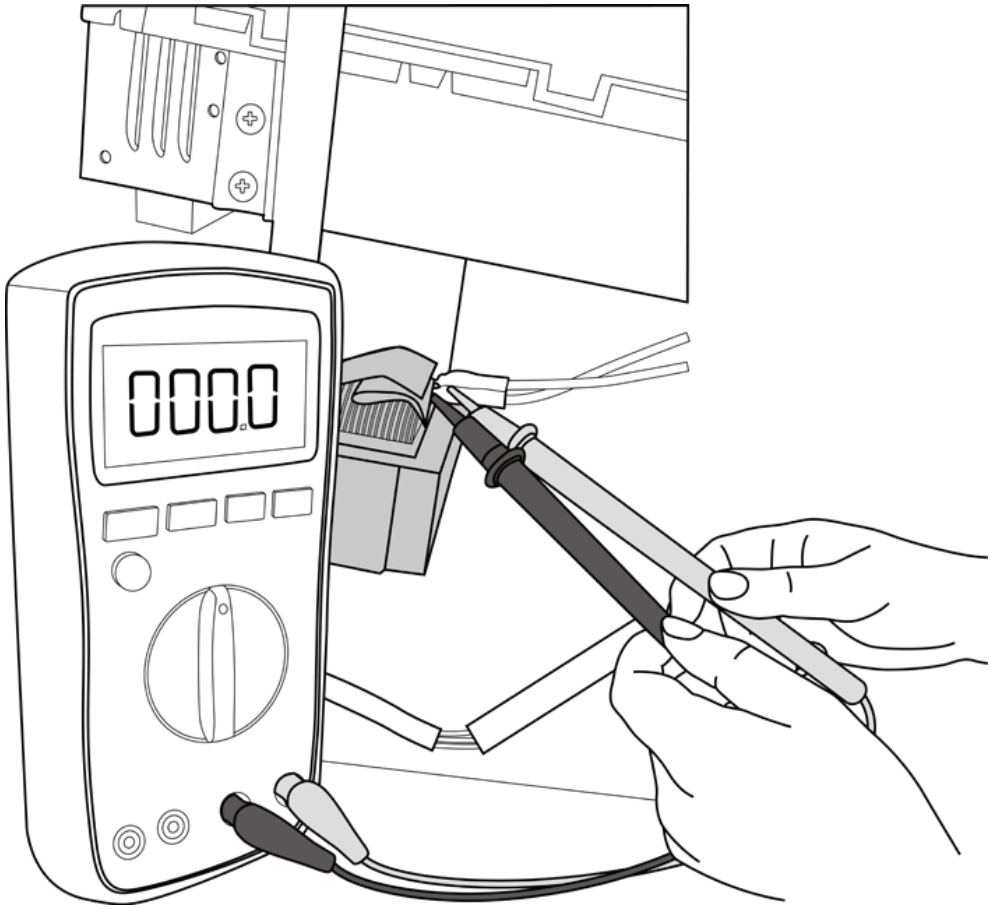
- Indoor PCB
- Outdoor PCB
- IPM module board
- Reactor

Troubleshooting and repair:



Remarks:

- Use a multimeter to test the resistance of the reactor that does not connect with a capacitor.
- The normal value should be around zero ohms. Otherwise, the reactor must have malfunctioned.



NOTE

The picture and the value are only for reference; actual condition and specific value may vary.

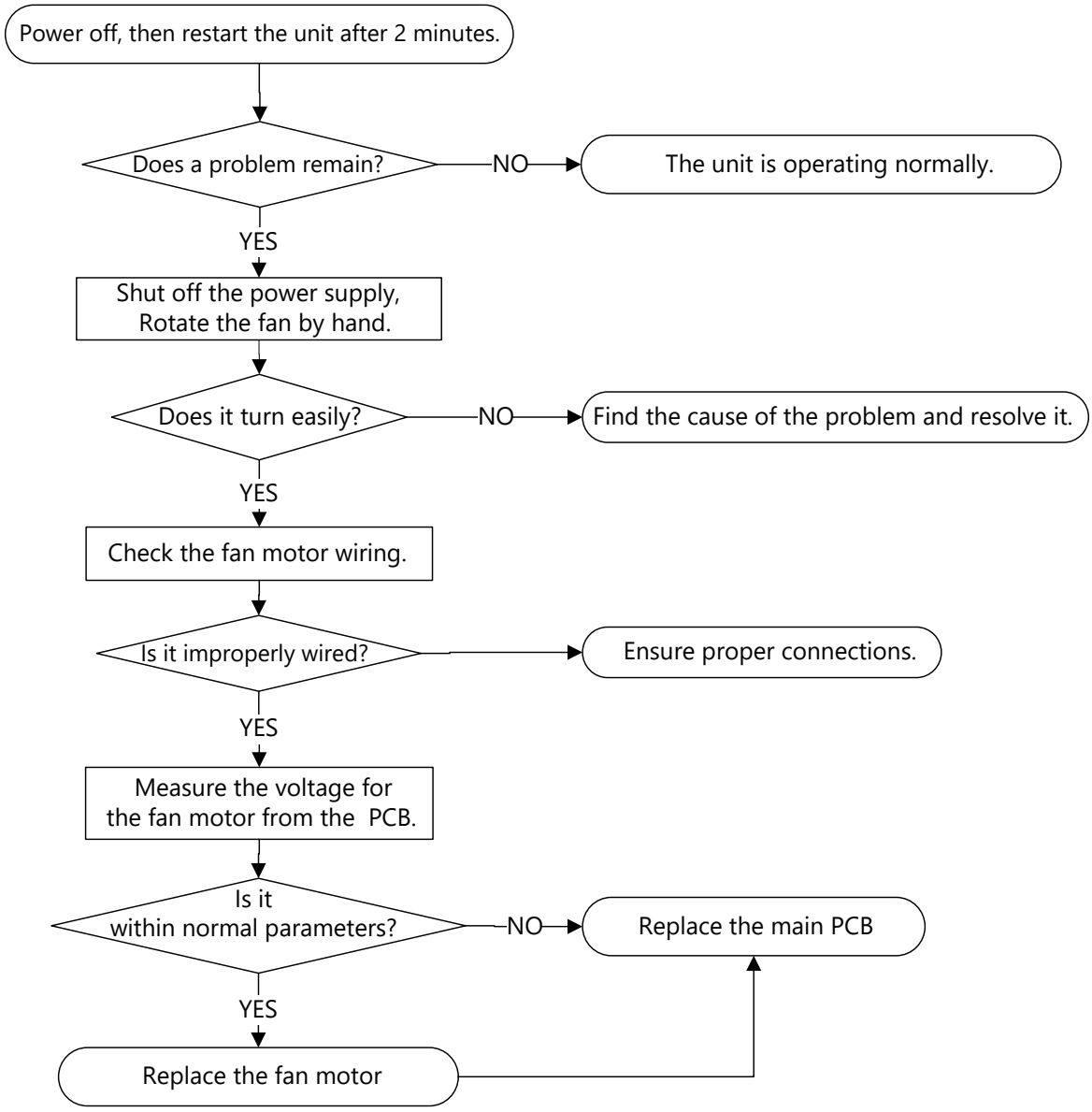
EC07 (Fan Speed Is Operating Outside of Normal Range)/EC71(Over Current Failure of Outdoor DC Fan Motor) Diagnosis and Solution

Description: When the indoor/outdoor fan speed is kept too low or too high for a certain time, the LED displays the failure code, and the AC turns off.

Recommended parts to prepare:

- Connection wires
- Fan assembly
- Fan motor
- PCB

Troubleshooting and repair:



Index:

Outdoor DC Fan Motor (control chip is in the fan motor)

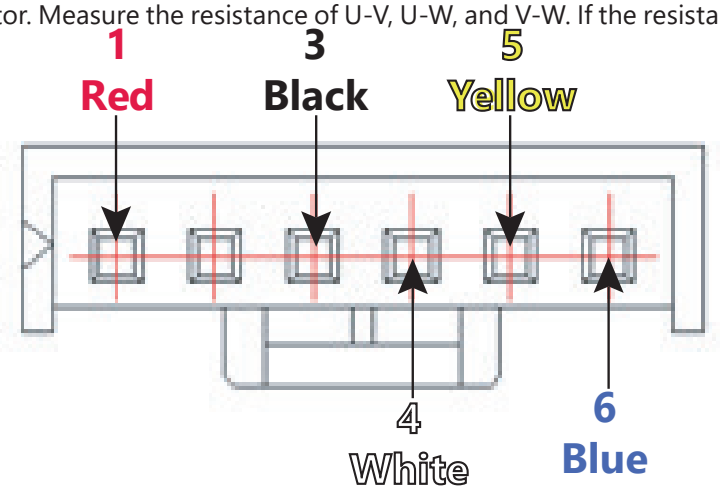
Power on and when the unit is on standby, measure the voltage of pin1-pin3, pin4-pin3 in the fan motor connector. If the value of the voltage is not in the range shown in the table below, the PCB must have problems and needs to be replaced.

- DC motor voltage input and output (voltage: 220-240 V):

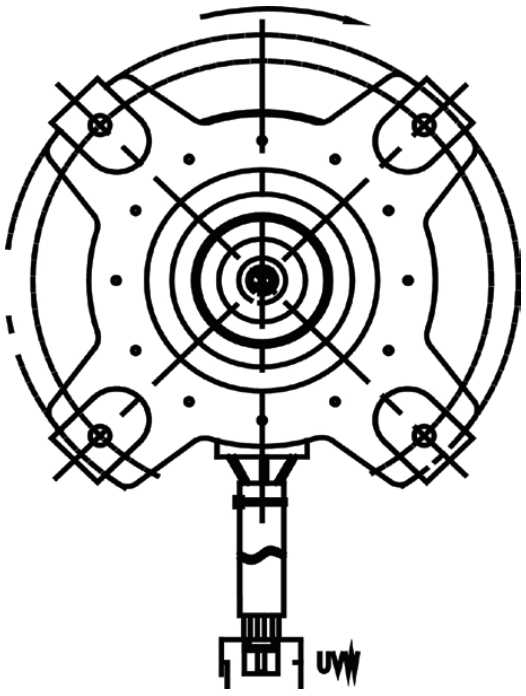
No.	Color	Signal	Voltage
1	Red	VS/VM	192 V~380 V
2	---	---	---
3	Black	GND	0 V
4	White	VCC	13.5~16.5 V
5	Yellow	VSP	0~6.5 V
6	Blue	FG	13.5~16.5 V

Outdoor DC Fan Motor (control chip is in the outdoor PCB)

Release the UVW connector. Measure the resistance of U-V, U-W, and V-W. If the resistance is not equal, the fan motor must



have problems and needs to be replaced. Otherwise, the PCB must have problems and needs to be replaced.



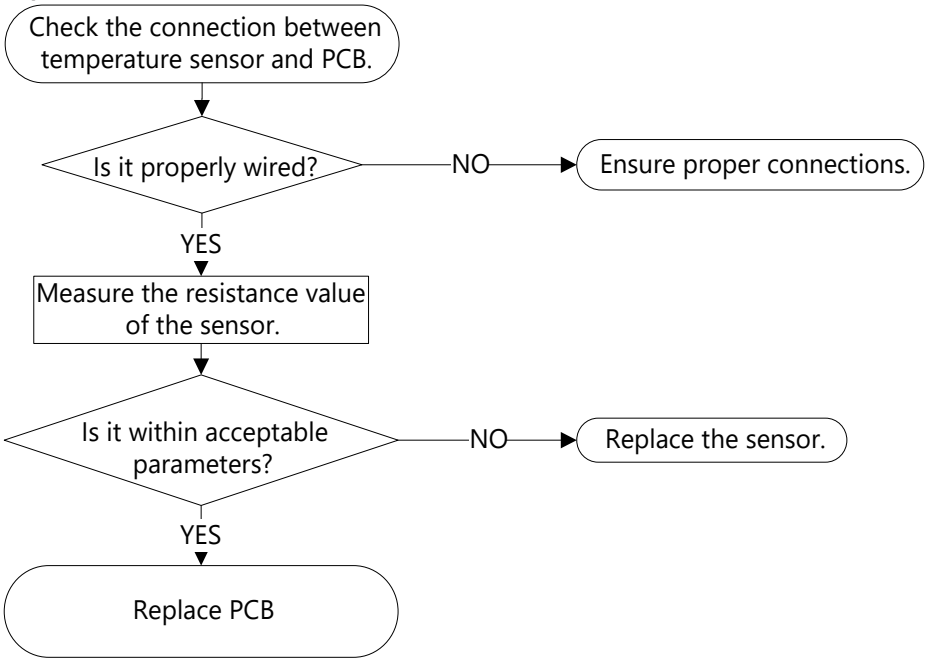
EC52/EC53/EC54/EC56/EC57/EC5A/EC5b/EC5E/EC50 (Open circuit or short circuit of temperature sensor diagnosis and solution)

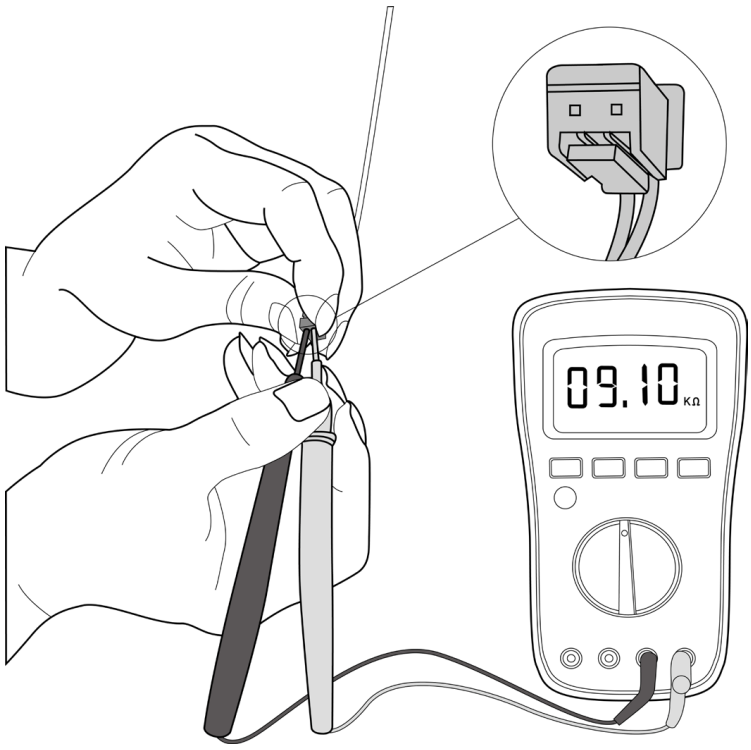
Description: If the sampling voltage is lower than 0.06V or higher than 4.94V, the LED displays the failure code.

Recommended parts to prepare:

- Connection wires
- Sensors
- Outdoor PCB

Troubleshooting and repair:





This picture and the value are only for reference; actual appearance and value may vary.

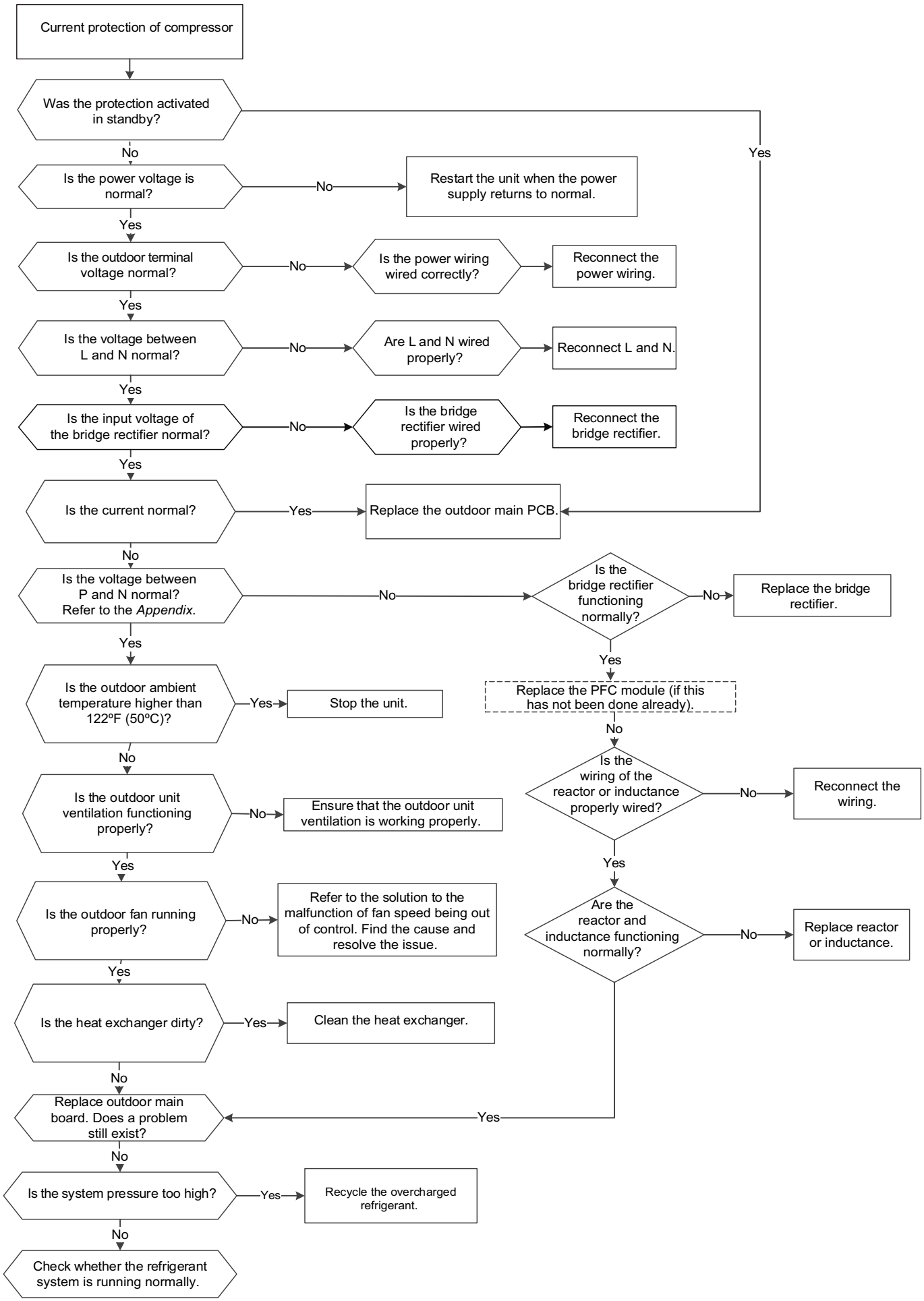
PC08 (Current overload protection)/PC44 (ODU zero speed protection)/PC46 (Compressor speed has been out of control)/PC49 (Compressor overcurrent failure)

Description: An abnormal current rise is detected by checking the specified current detection circuit.

Recommended parts to prepare:

- Outdoor PCB
- Connection wires
- Bridge rectifier
- PFC circuit or reactor
- Refrigeration piping system
- Pressure switch
- Outdoor fan
- IPM module board

Troubleshooting and repair:


Current protection of compressor
Was the protection activated in standby?
Yes
No
Is the power voltage is normal?
No
Restart the unit when the power supply returns to normal.
Yes
Is the outdoor terminal voltage normal?
No
Is the power wiring wired correctly?
Reconnect the power wiring.
Yes
Is the voltage between L and N normal?
No
Are L and N wired properly?
Reconnect L and N.
Yes
Is the input voltage of the bridge rectifier normal?
No
Is the bridge rectifier wired properly?
Reconnect the bridge rectifier.
Yes
Is the current normal?
Yes
Replace the outdoor main PCB.
No
Is the voltage between P and N normal? Refer to the *Appendix*.
No
Is the bridge rectifier functioning normally?
No
Replace the bridge rectifier.
Yes
Replace the PFC module (if this has not been done already).
Yes
Is the outdoor ambient temperature higher than 122ºF (50ºC)?
Yes
Stop the unit.
No
Is the outdoor unit ventilation functioning properly?
No
Ensure that the outdoor unit ventilation is working properly.
Yes
Is the outdoor fan running properly?
No
Refer to the solution to the malfunction of fan speed being out of control. Find the cause and resolve the issue.
Yes
Is the heat exchanger dirty?
Yes
Clean the heat exchanger.
No
No
Is the wiring of the reactor or inductance properly wired?
No
Reconnect the wiring.
Yes
Are the reactor and inductance functioning normally?
No
Replace reactor or inductance.
Yes
Replace outdoor main board. Does a problem still exist?
Yes
No
Is the system pressure too high?
Yes
Recycle the overcharged refrigerant.
No
Check whether the refrigerant system is running normally.

PC00 (IPM malfunction diagnosis and solution)

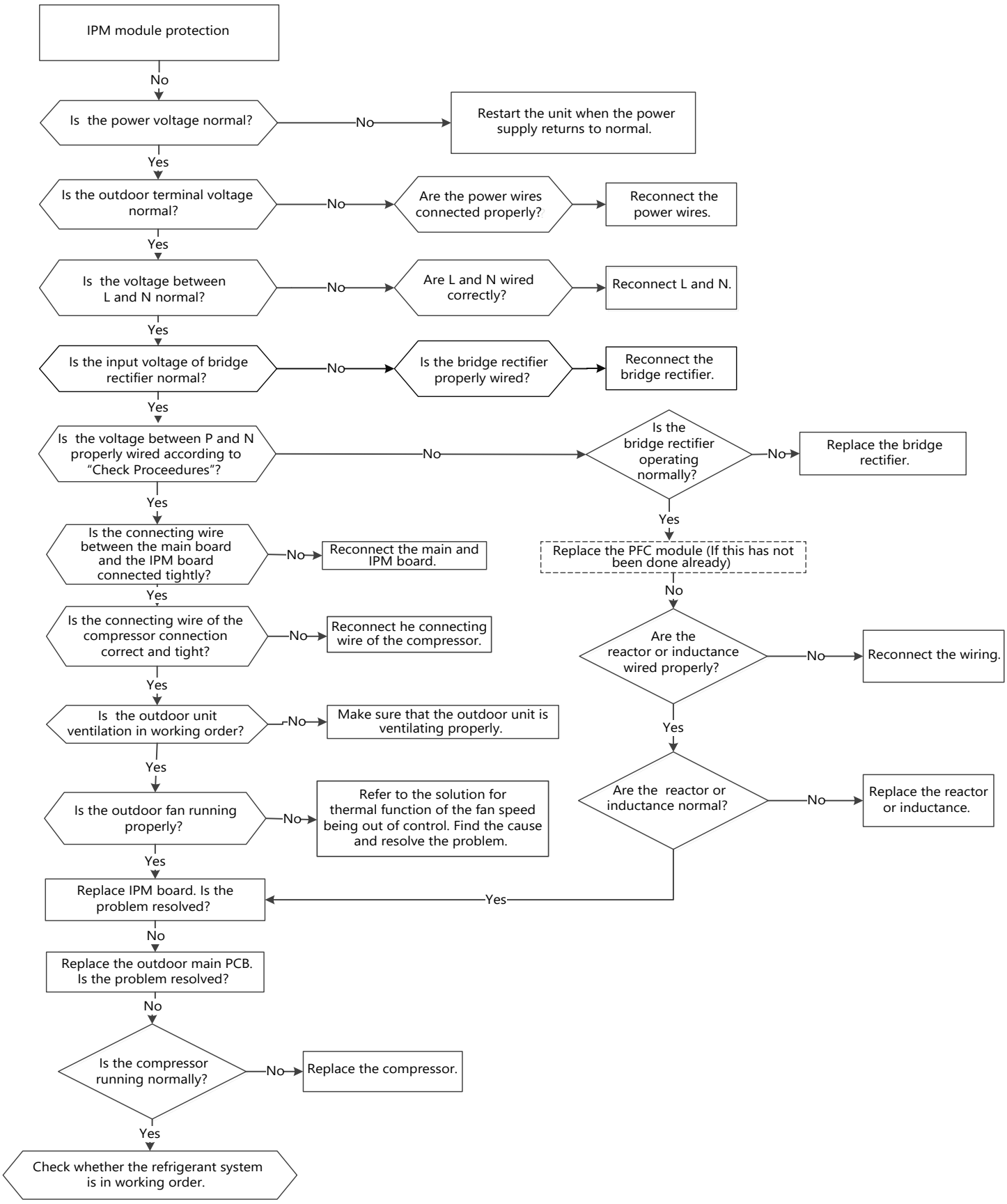
Description: When the voltage signals the IPM sends to the compressor drive chip are abnormal, the LED displays the failure code, and the AC turns off.

Recommended parts to prepare:

- Connection wires
- IPM module board
- Outdoor fan assembly
- Compressor
- Outdoor PCB
- Reactor or inductance
- Bridge rectifier

Troubleshooting and repair:

First, test the resistance between every two ports of U, V, W of IPM, and P, N. If any result of them is 0 or close to 0, the IPM is defective. Otherwise, please use the following procedure:


IPM module protection
No
Is the power voltage normal?
No
Restart the unit when the power supply returns to normal.
Yes
Is the outdoor terminal voltage normal?
No
Are the power wires connected properly?
Reconnect the power wires.
Yes
Is the voltage between L and N normal?
No
Are L and N wired correctly?
Reconnect L and N.
Yes
Is the input voltage of bridge rectifier normal?
No
Is the bridge rectifier properly wired?
Reconnect the bridge rectifier.
Yes
Is the voltage between P and N properly wired according to "Check Proceedures"?
No
Is the bridge rectifier operating normally?
No
Replace the bridge rectifier.
Yes
Replace the PFC module (If this has not been done already)
No
Are the reactor or inductance wired properly?
No
Reconnect the wiring.
Yes
Are the reactor or inductance normal?
No
Replace the reactor or inductance.
Yes
Is the connecting wire between the main board and the IPM board connected tightly?
No
Reconnect the main and IPM board.
Yes
Is the connecting wire of the compressor connection correct and tight?
No
Reconnect he connecting wire of the compressor.
Yes
Is the outdoor unit ventilation in working order?
No
Make sure that the outdoor unit is ventilating properly.
Yes
Is the outdoor fan running properly?
No
Refer to the solution for thermal function of the fan speed being out of control. Find the cause and resolve the problem.
Yes
Replace IPM board. Is the problem resolved?
Yes
No
Replace the outdoor main PCB. Is the problem resolved?
No
Is the compressor running normally?
No
Replace the compressor.
Yes
Check whether the refrigerant system is in working order.

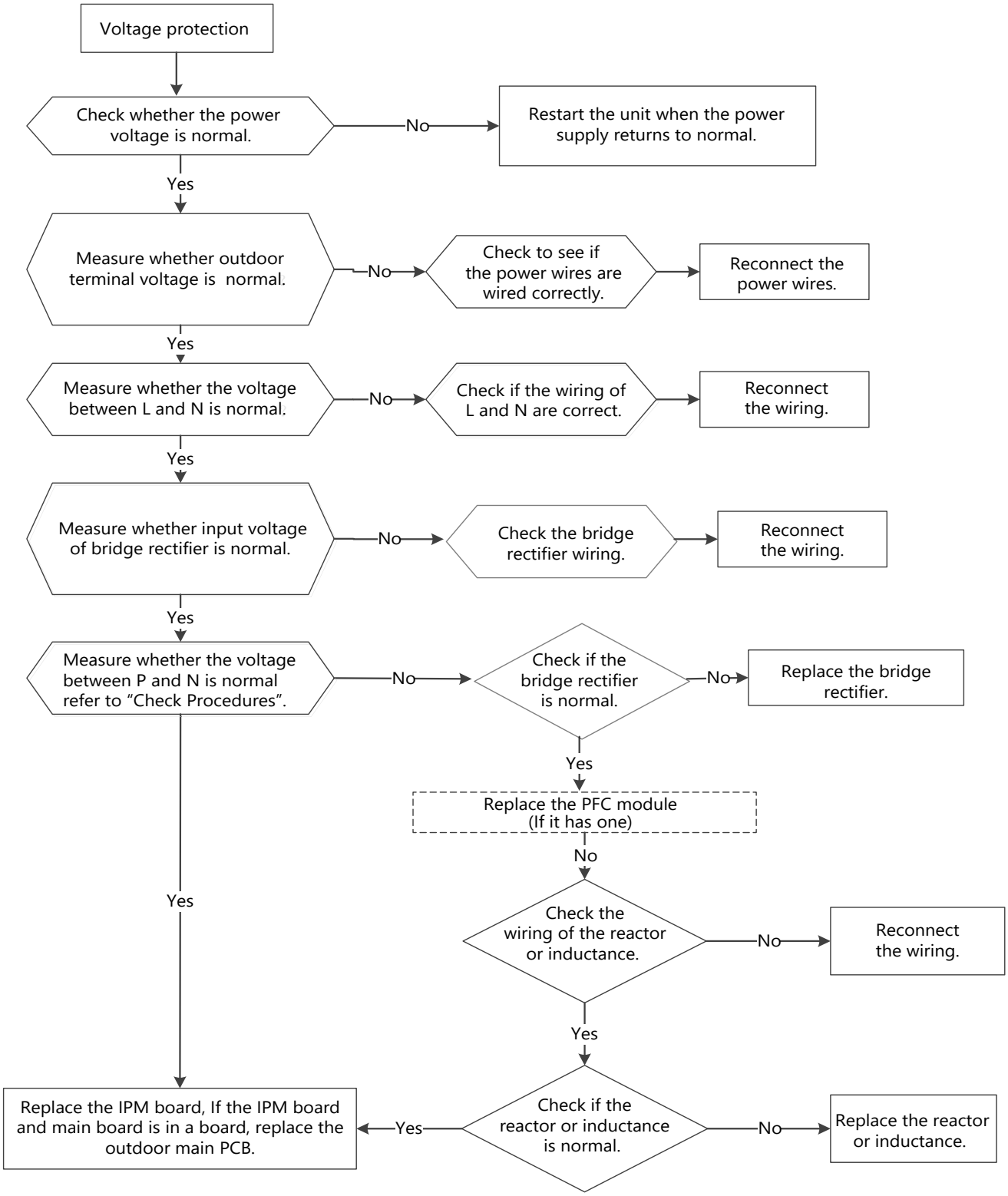
PC01 (Over voltage or too low voltage protection)/PC10 (ODU low AC voltage protection)/PC11(ODU main control board DC bus high voltage protection)/PC12(ODU main control board DC bus low voltage protection /341 MCE error) Diagnosis and Solution

Description: Abnormal increases or voltage decreases are detected by checking the specified voltage detection circuit.

Recommended parts to prepare:

- Power supply wires
- IPM module board
- Outdoor PCB
- Bridge rectifier
- PFC circuit or reactor

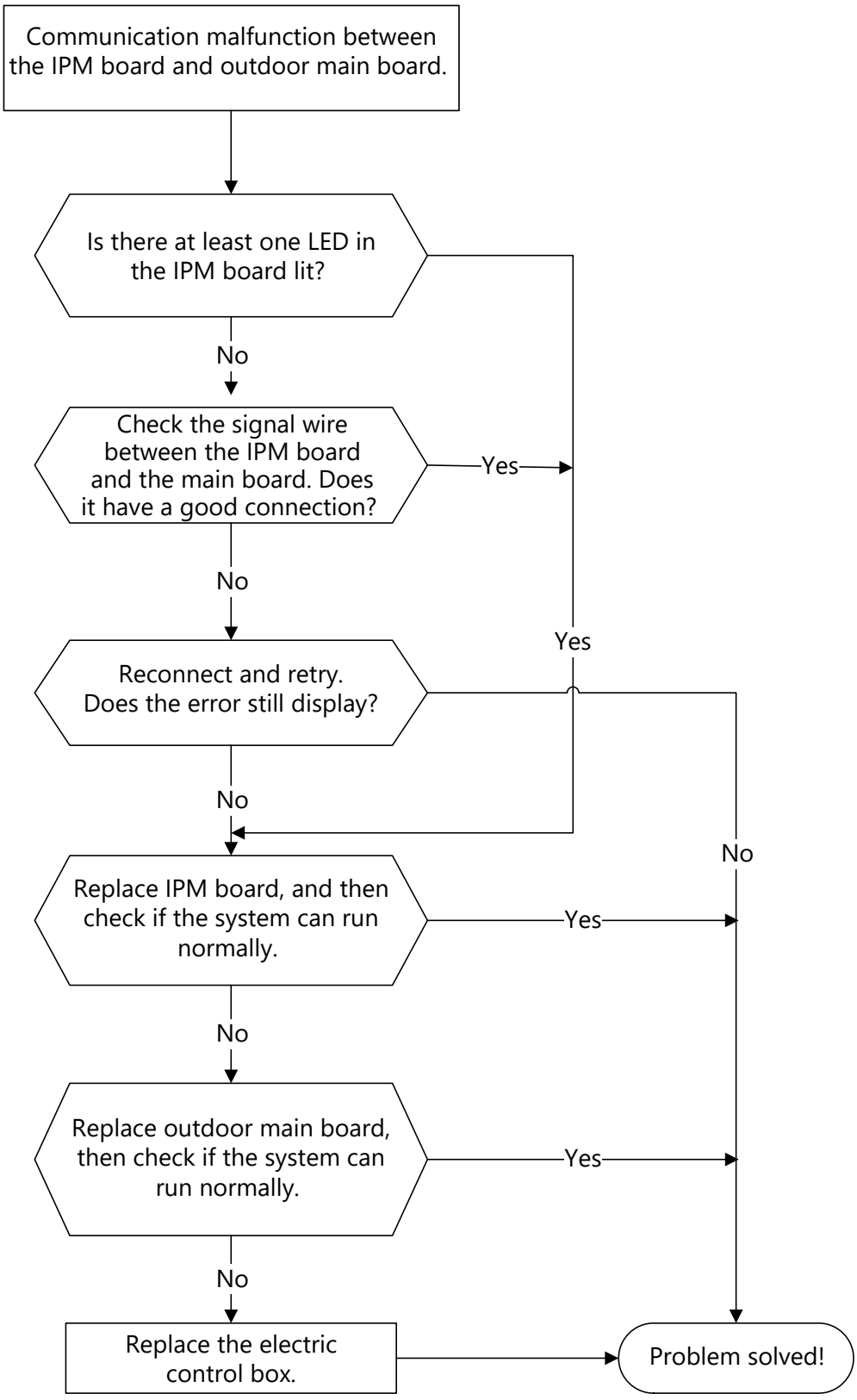
Troubleshooting and repair:



PC40 (Communication error between ODU main chip and compressor driven chip diagnosis and solution)
Description: The main PCB cannot detect the IPM board.
Recommended parts to prepare:

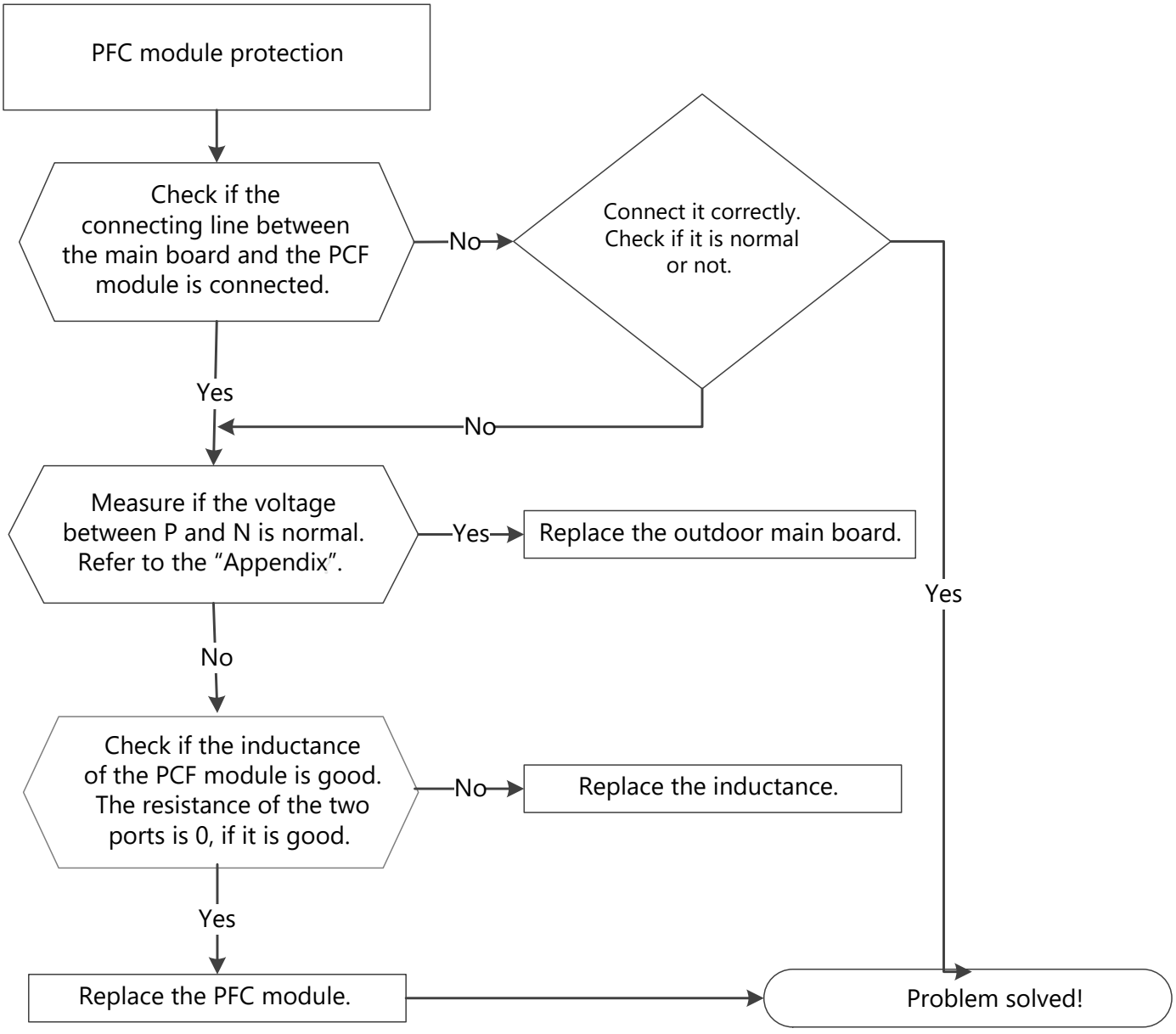
- Connection wires
- Outdoor PCB
- IPM module board
- Electric control box

Troubleshooting and repair:



PC0F (PFC module protection diagnosis and solution)
Description: Outdoor PCB detects PFC signal is low voltage or DC voltage is lower than 340V for 6s when quick check.
Recommended parts to prepare:
- Connection wires
- Outdoor PCB
- Inductance
- PFC circuit or IPM module board

Troubleshooting and repair:



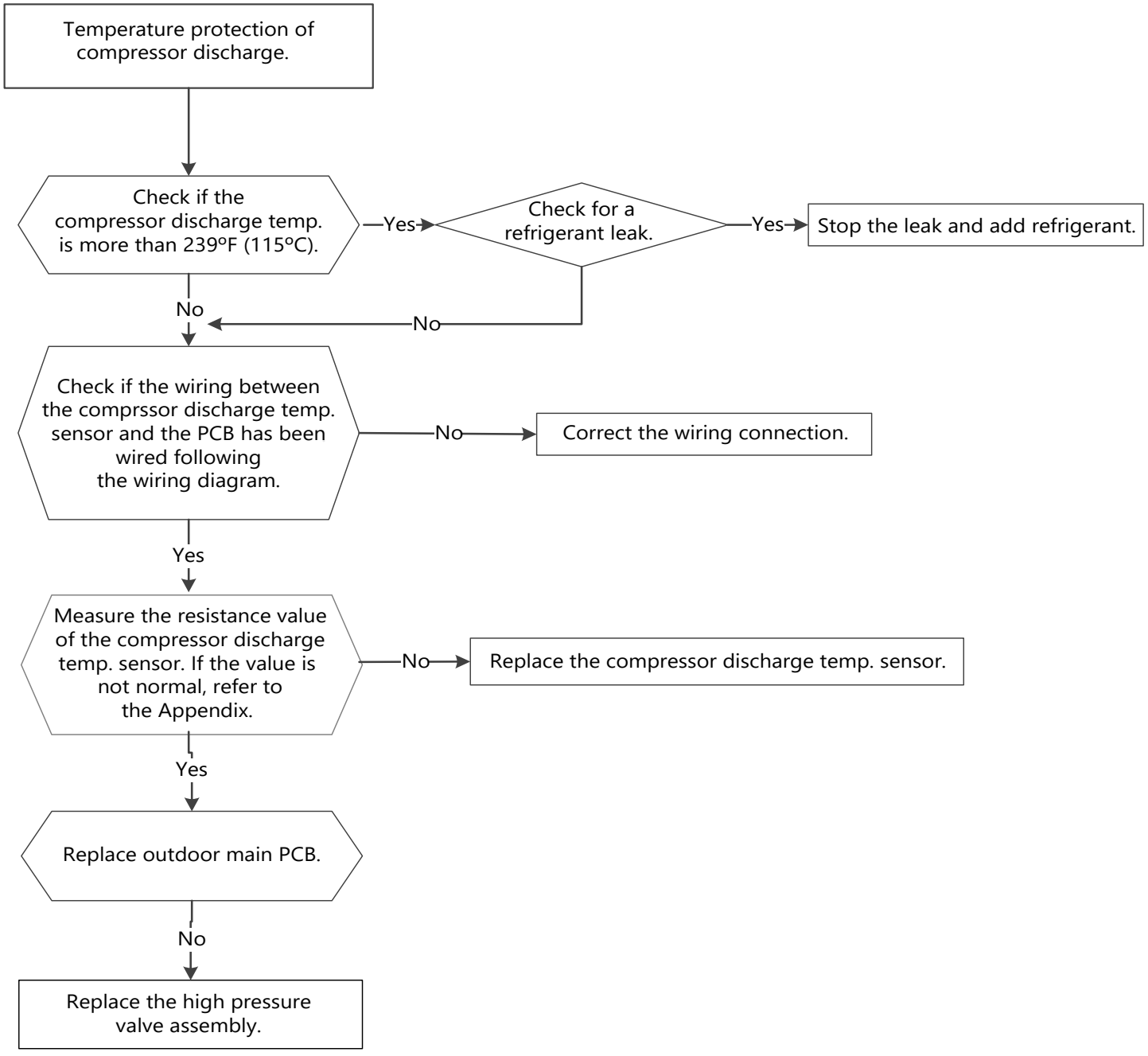
PC06 (Discharge temperature protection of compressor diagnosis and solution)

Description: When the compressor discharge temperature (TP) is more than 239°F (115°C) for 10 seconds, the compressor ceases operation and does not restart until TP is less than 194°F (90°C).

Recommended parts to prepare:

- Connection wires
- Outdoor PCB
- Discharge temperature sensor
- Refrigerant

Troubleshooting and repair:



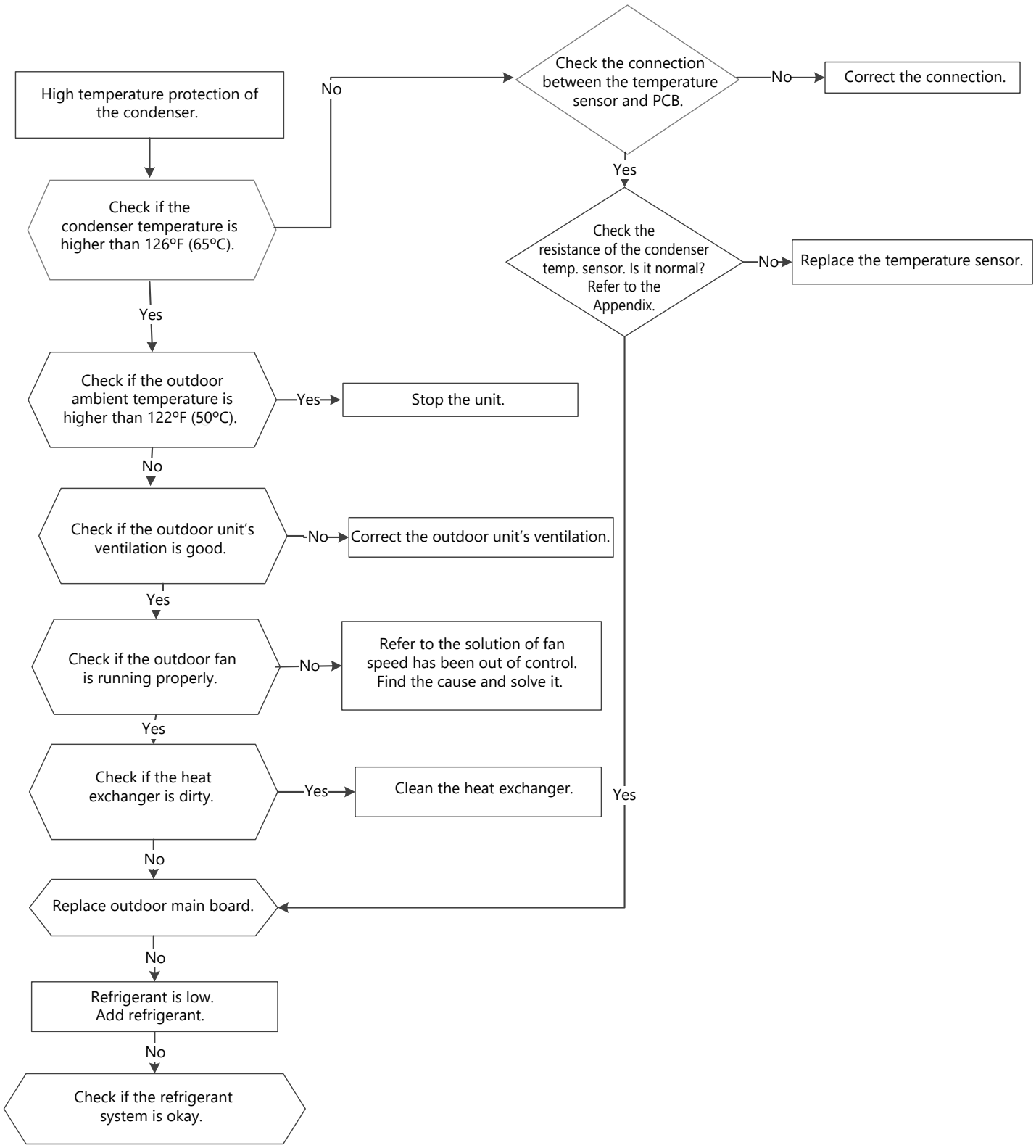
PC0A (High temperature protection of condenser diagnosis and solution)

Description: The unit will stop when the condenser temperature is higher than 149°F (65°C), and run again when it is less than 126.5°F (52°C).

Recommended parts to prepare:

- Connection wires
- Condenser temperature sensor
- Outdoor fan
- Outdoor main PCB
- Refrigerant

Troubleshooting and repair:



PC02/LC06 (Compressor top (or IPM) temp. protection/Refrigerant sensor error diagnosis and solution)

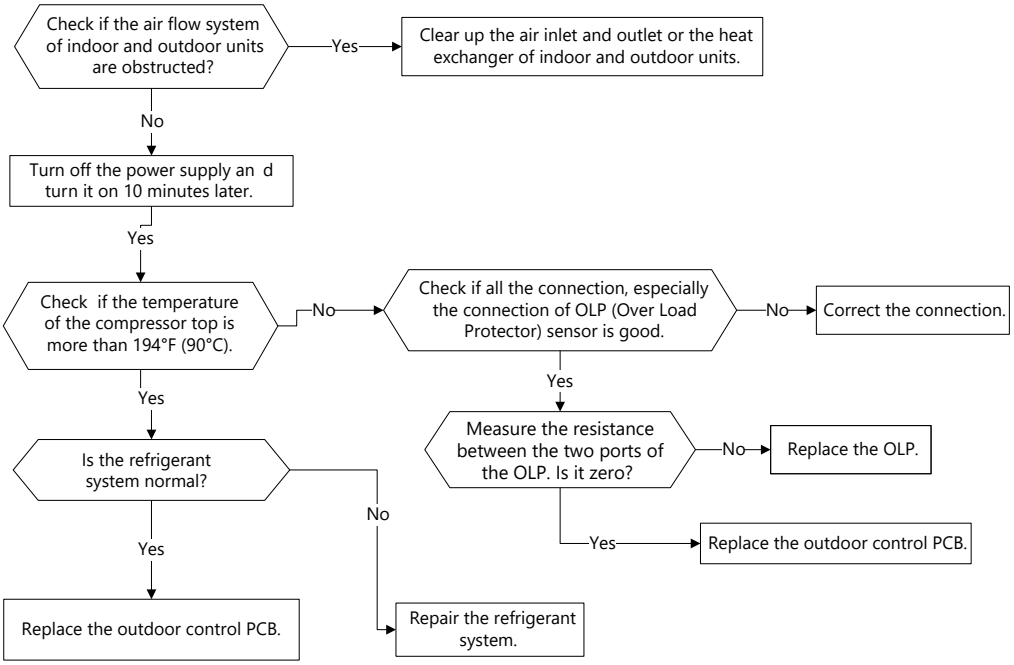
Description: For some models with overload protector, If the sampling voltage is not 5 V, the LED will display the failure. If the temperature of IPM module is higher than a certain value, the LED displays the failure code.

Models without overload protector should be diagnosed according to the second flowchart.

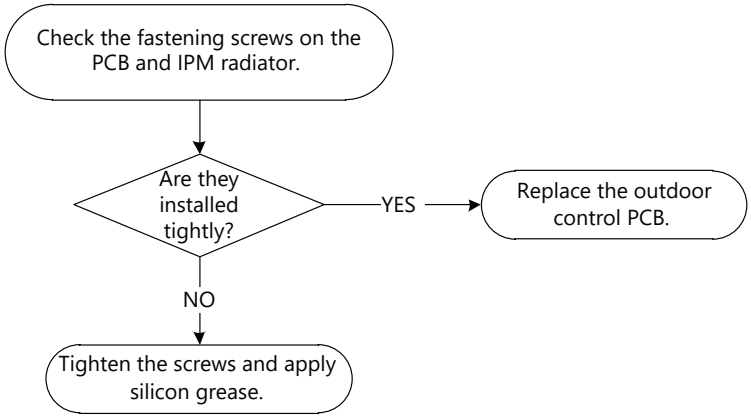
Recommended parts to prepare:

- Connection wires
- Outdoor PCB
- IPM module board
- High pressure protector
- System blockages

Troubleshooting and repair:



or



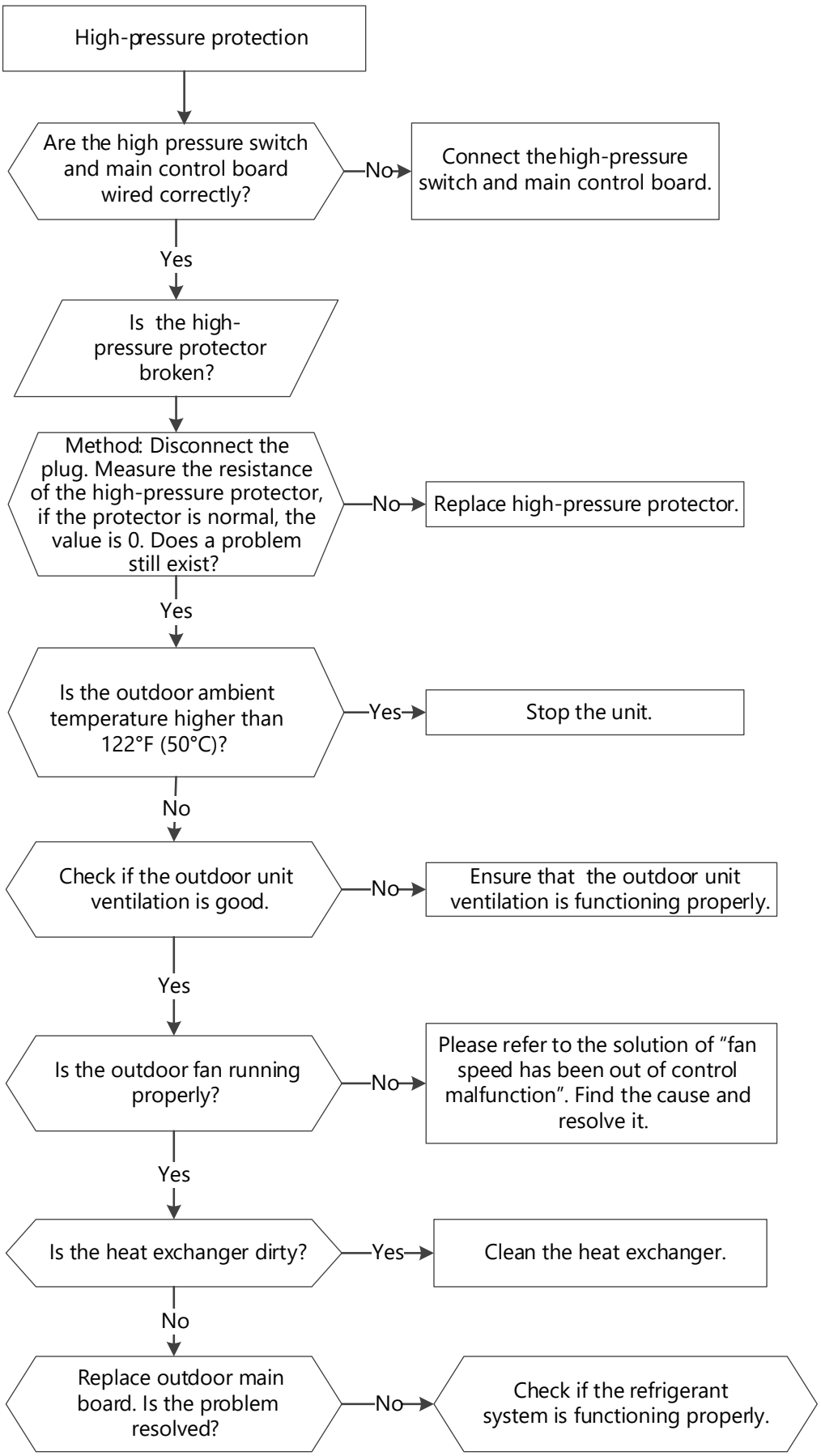
PC30 (System high-pressure protection diagnosis and solution)

Description: The Outdoor pressure switch cuts off the system because high pressure is higher than 4.4 MPa

Recommended parts to prepare:

- Connection wires
- Pressure switch
- Outdoor fan
- Outdoor main PCB

Troubleshooting and repair:



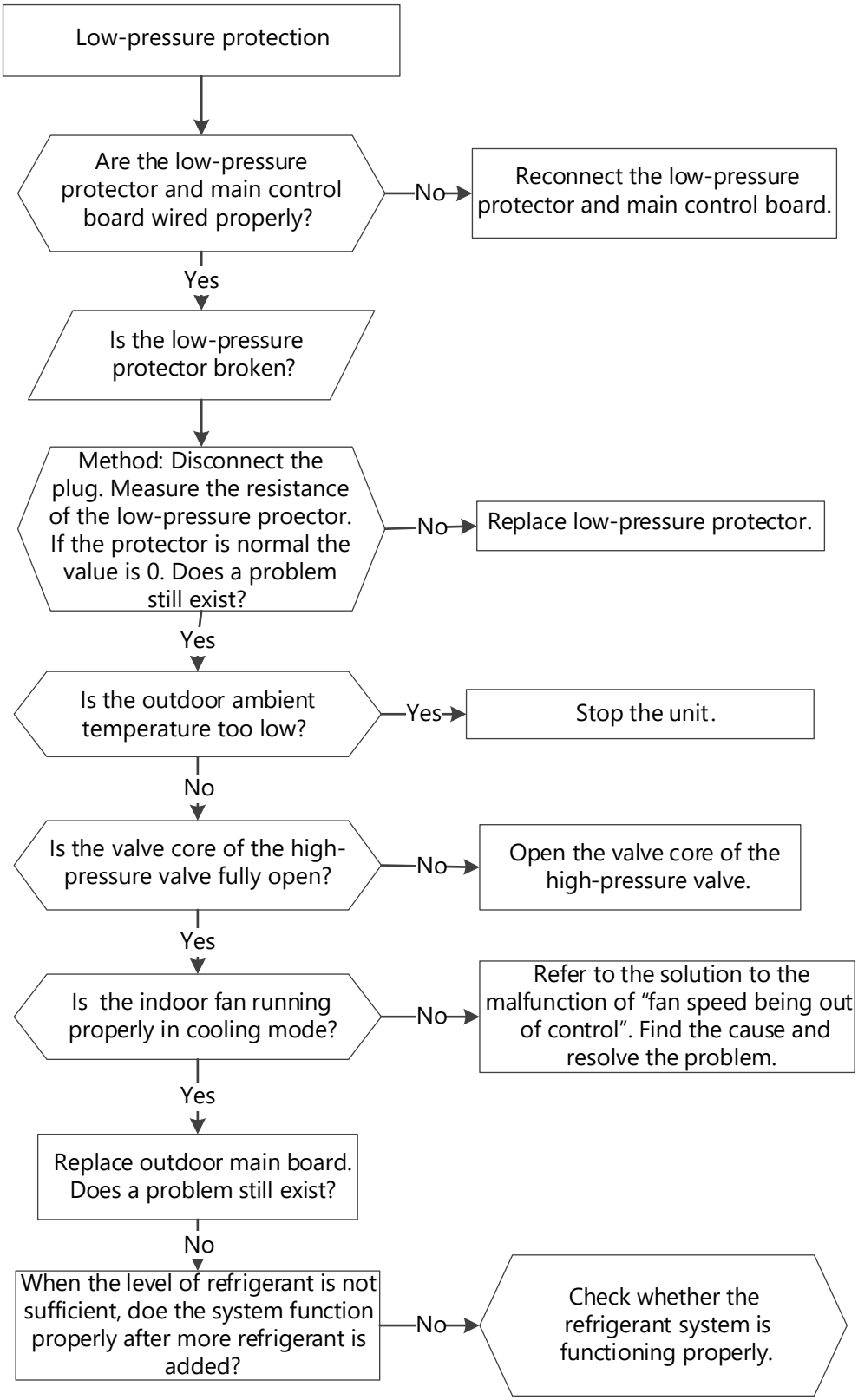
PC31 (System low-pressure protection diagnosis and solution)

Description: The Outdoor pressure switch cuts off the system because low pressure is lower than 0.13 MPa; the LED displays the failure code.

Recommended parts to prepare:

- Connection wires
- Outdoor PCB
- Low-pressure protector
- Refrigerant

Troubleshooting and repair:



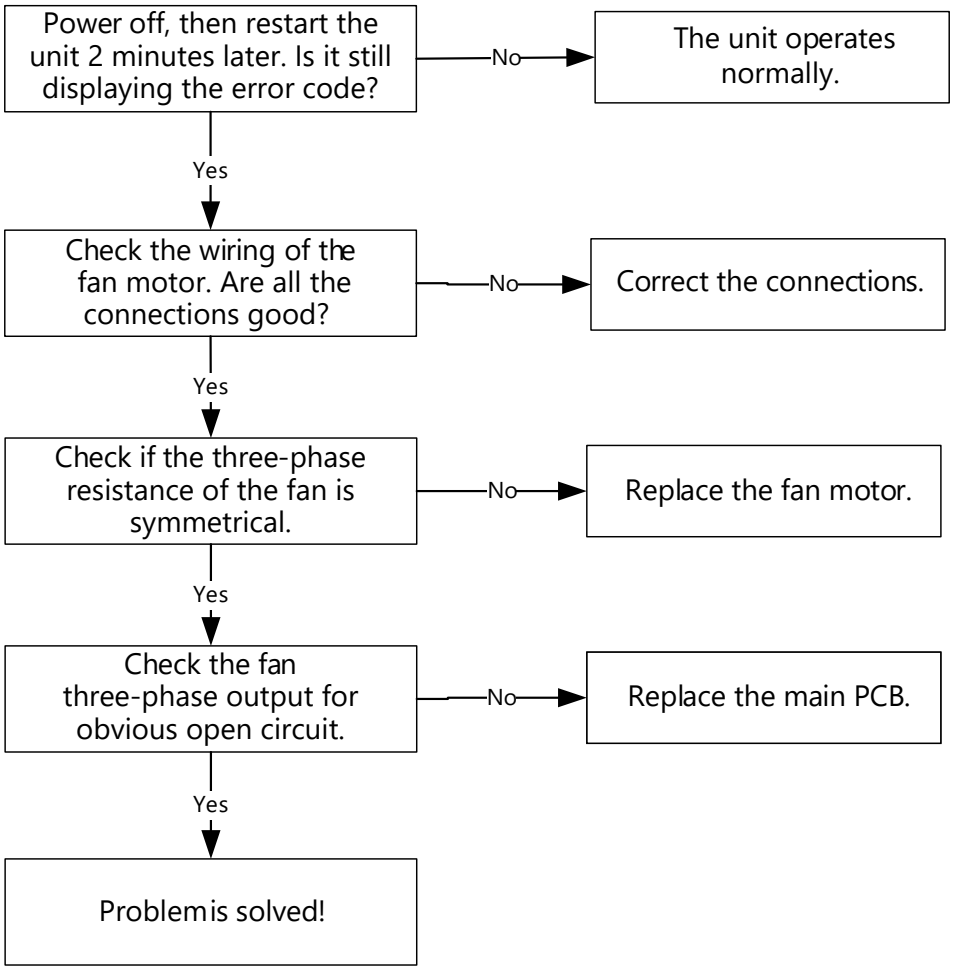
EC72 (Lack phase failure of outdoor DC fan motor diagnosis and solution)

Description: When the three-phase sampling current of the DC motor is abnormal, especially when the current of one or more phases is always small and almost 0, the LED displays the failure code.

Recommended parts to prepare:

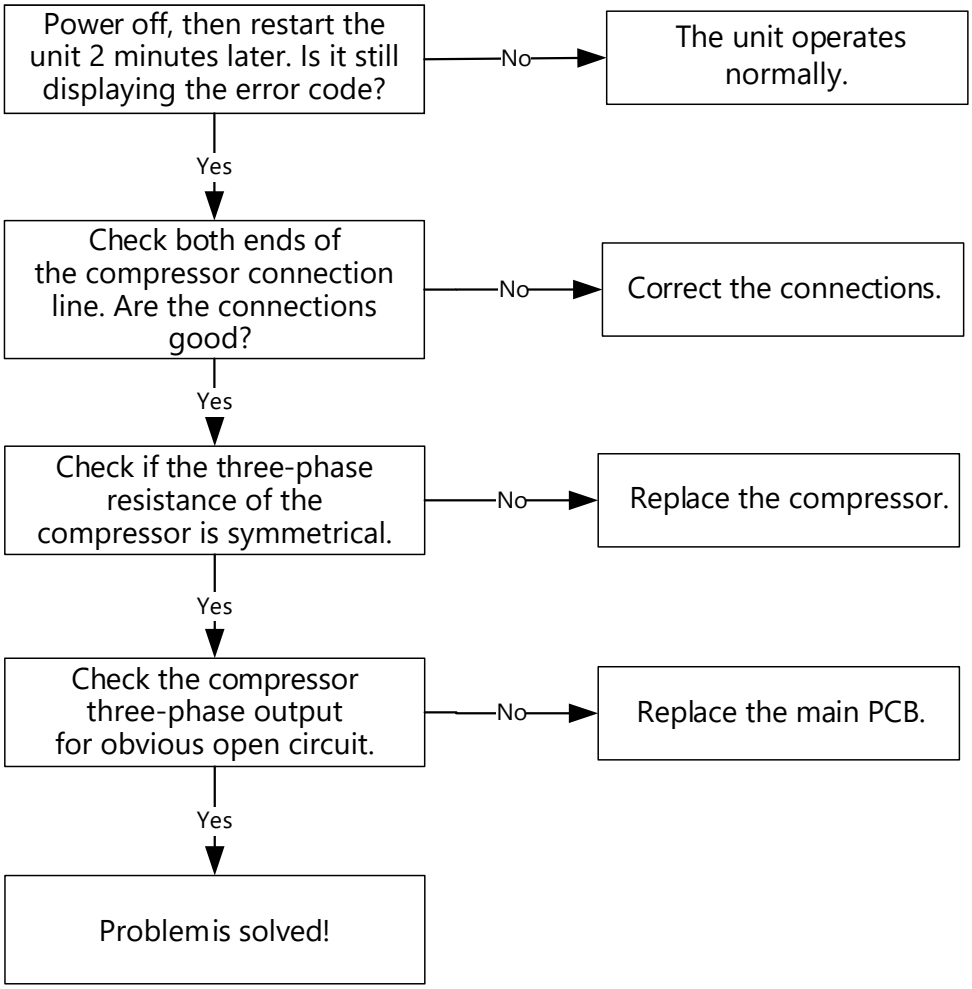
- Connection wire
- Fan motor
- Outdoor PCB

Troubleshooting and repair:



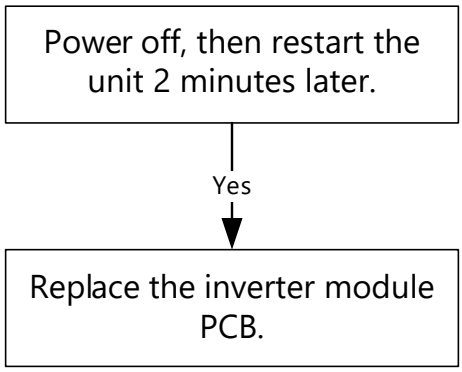
PC43 (ODU compressor lacks phase protection diagnosis and solution)
Description: When the three-phase sampling current of the compressor is abnormal, especially when the current of one or more phases is always small and almost 0, the LED displays the failure code
Recommended parts to prepare:
- Connection wire
- Compressor
- Outdoor PCB

Troubleshooting and repair:



PC45 (ODU IR chip drive failure diagnosis and solution)
Description: When the IR chip detects its parameter error, the LED displays the failure code when powered on.
Recommended parts to prepare:
- Inverter module PCB.

Troubleshooting and repair:



CE (Automatic correction of wiring/piping error)

Press the "check switch" on the outdoor unit PCB board 5 seconds until LED display "CE", which mean this function is working, approximately 5-10 minutes after the switch is pressed, the "CE" disappear the wiring/piping error will be corrected, and wiring/piping is properly connected.

EHC1 (Refrigerant sensor detects leakage diagnosis and solution)

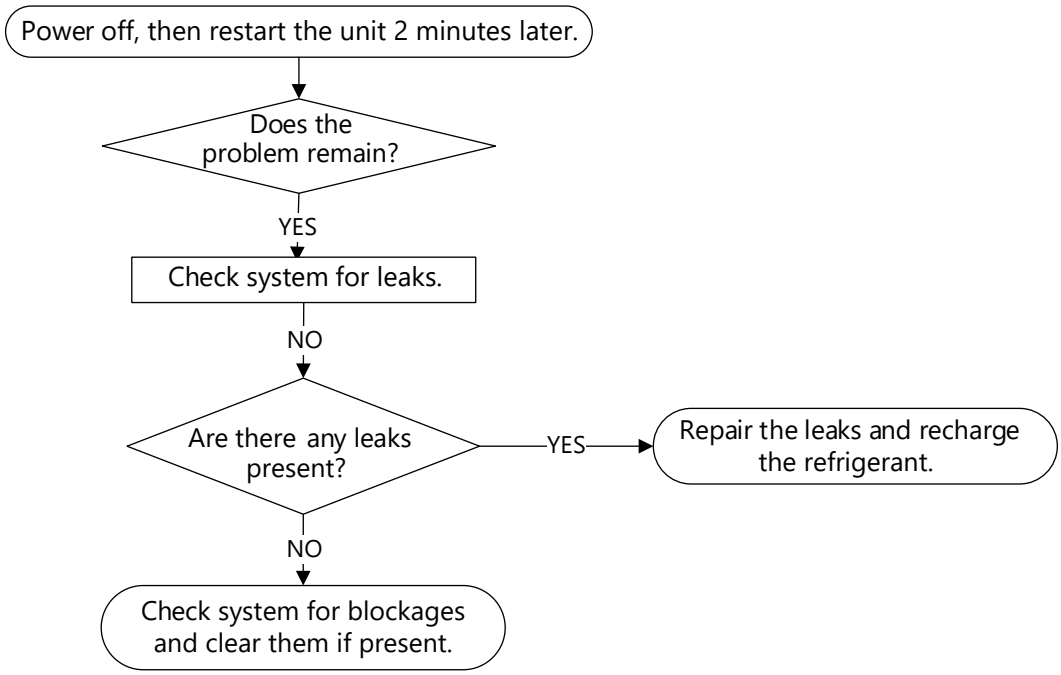
Description:

The refrigerant sensor detects a concentration higher than or equal to 10%*LFL for 10 seconds or the refrigerant sensor detects a concentration higher than or equal to 20%*LFL or the multi model receives the refrigerant leakage protection fault sent by the outdoor unit.

Recommended parts to prepare:

- Additional refrigerant

Troubleshooting and repair:



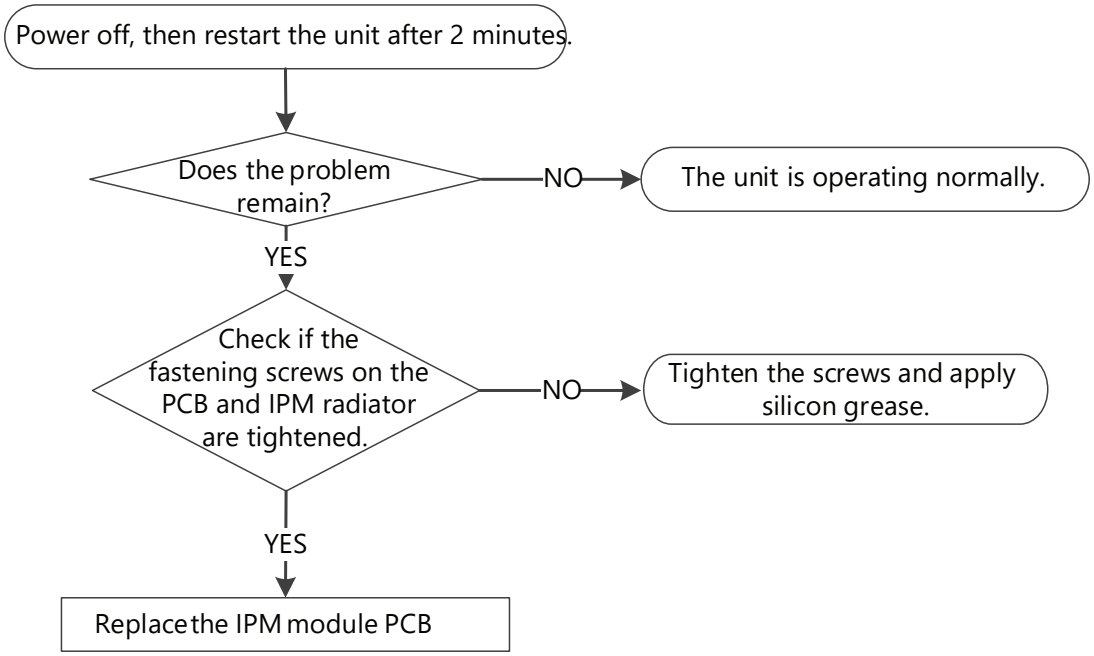
Exit Conditions:

One of the following conditions is met:

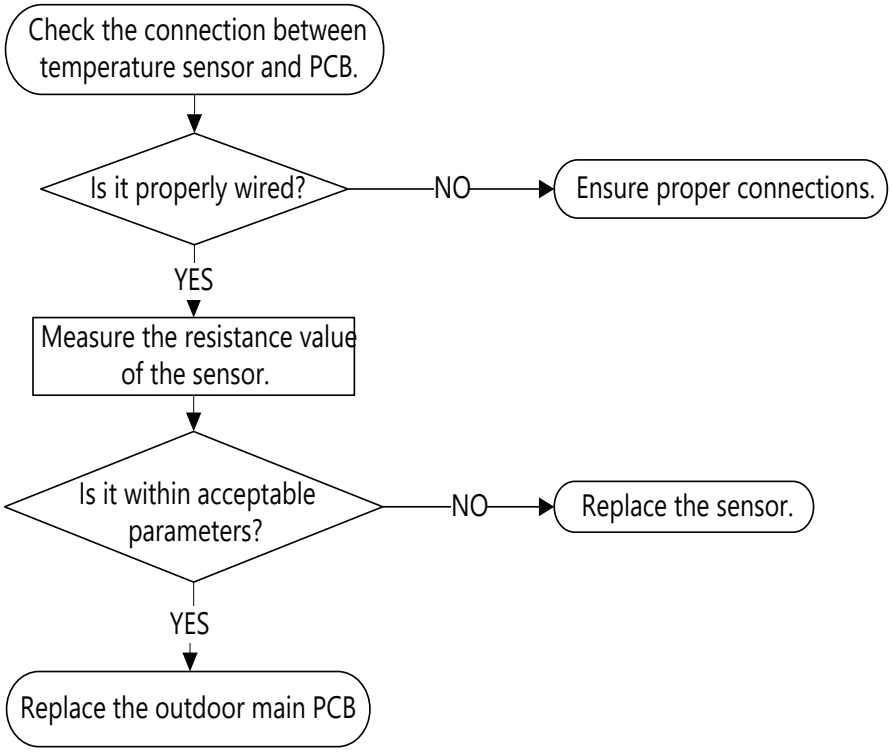
1. All connected indoor units have no refrigerant leakage protection signal for more than 2.5 hours;
2. All connected indoor units have no refrigerant leakage protection signal, and receive the signal to clear refrigerant leakage protection (press and hold SW1 on the auxiliary PCB for 10 seconds).
3. The data of EEPROM is protected by refrigerant leakage when the data is read on power-on, and the recovery time of the refrigerant leakage protection is more than 2.5 hours.

EC55 (ODU IPM module temperature sensor malfunction diagnosis and solution)
Description: If the sampling voltage is 0 V or 5 V, the LED displays the failure code.
Recommended parts to prepare:
- IPM module PCB
- Connection wires
- Sensors
- Outdoor main PCB

Troubleshooting and repair:
If the radiator has no sensor, follow the steps below to resolve,

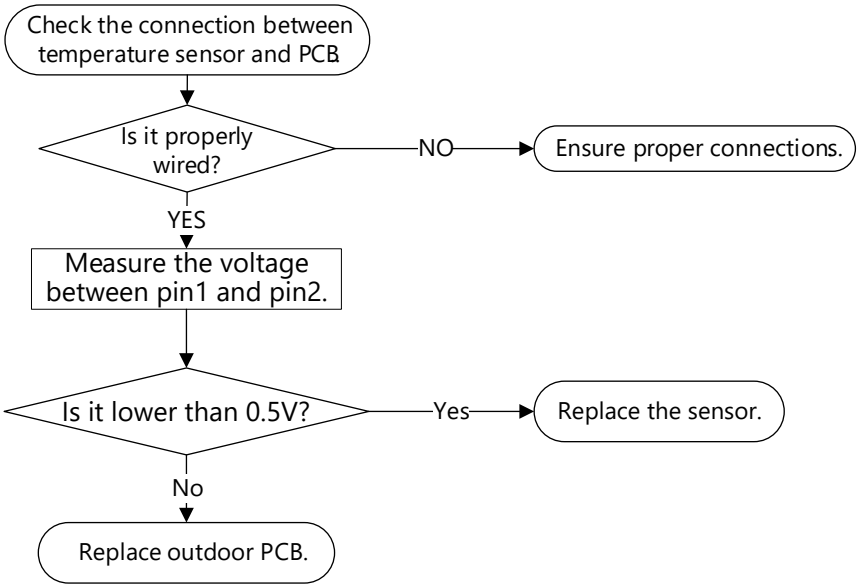


If the radiator has a sensor (TH), follow the steps below to resolve,



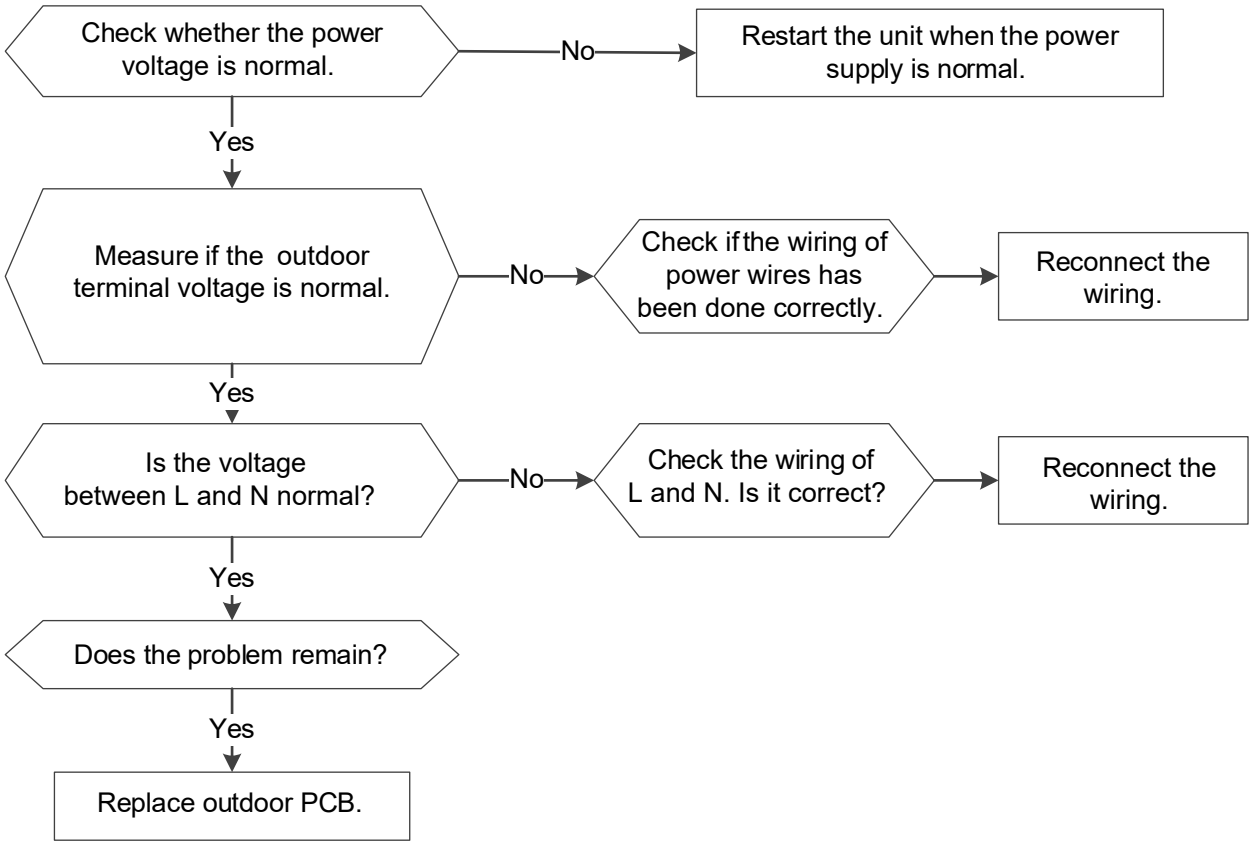
EC5C (Pressure sensor failure diagnosis and solution)
Description: If the sampling voltage is lower than 2 V or higher than 254 V.
Recommended parts to prepare:
- Connection wires
- Sensor
- Outdoor PCB

Troubleshooting and repair:



PC13 (The AC power is cut off or the AC voltage detection circuit fails diagnosis and solution)
Description: The machine, equipped with a safety shut-off valve, has detected a power outage from the mains.
Recommended parts to prepare:
- Outdoor PCB

Troubleshooting and repair:



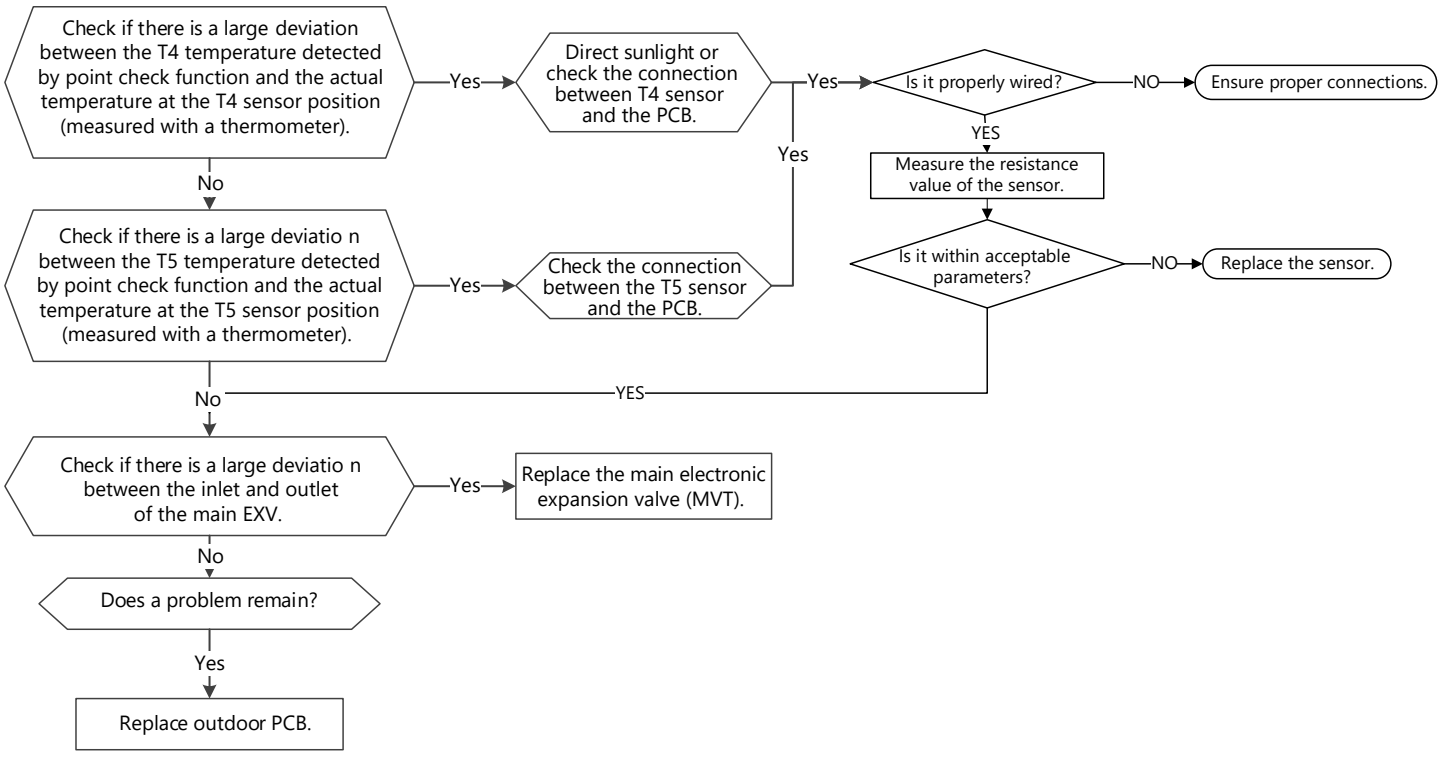
PCA1 (Condensation protection of refrigerant pipe diagnosis and solution)

Description: If the outdoor ambient temperature is higher than a certain set value of the refrigerant pipe temperature for a period of time, the LED displays the failure code.

Recommended parts to prepare:

- T4 sensor
- T5 sensor
- Main EXV
- Outdoor PCB

Troubleshooting and repair:



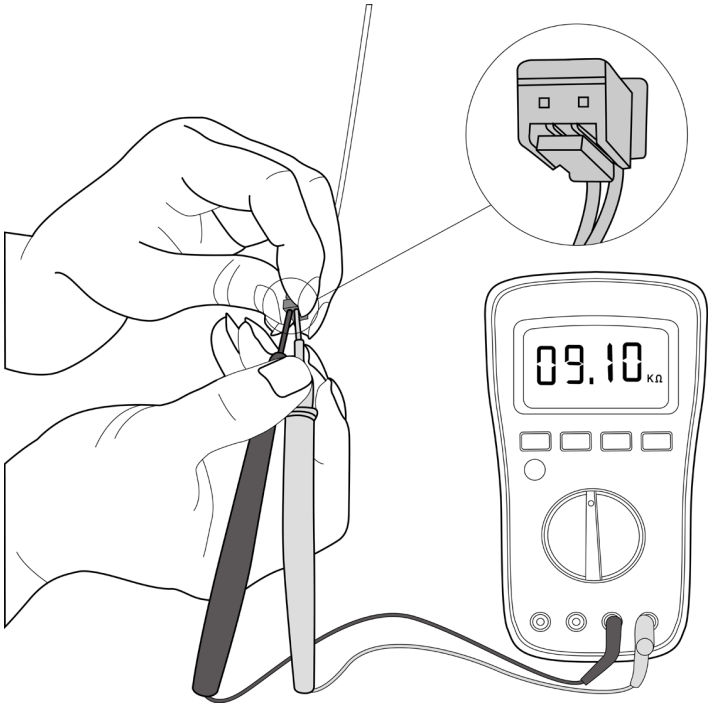
Check Procedures

Temperature Sensor Check

⚠ WARNING

Be sure to turn off all power supplies or disconnect all wires to avoid an electric shock. Operate after the compressor and coil have returned to normal temperature in case of injury.

1. Disconnect the temperature sensor from the PCB (Refer to "Indoor and Outdoor Unit Disassembly").
2. Measure the resistance value of the sensor using a multimeter.
3. Check the corresponding temperature sensor resistance value table (Refer to Chapter "Appendix").

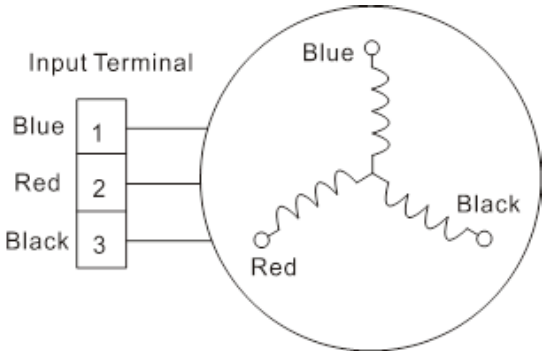


NOTE

The picture and the value are only for reference, actual condition and specific value may vary.

Compressor Check

1. Disconnect the compressor power cord from outdoor PCB (Refer to "Outdoor Unit Disassembly")).
2. Measure the resistance value of each winding using a multi-meter.
3. Check the resistance value of each winding on the following table.



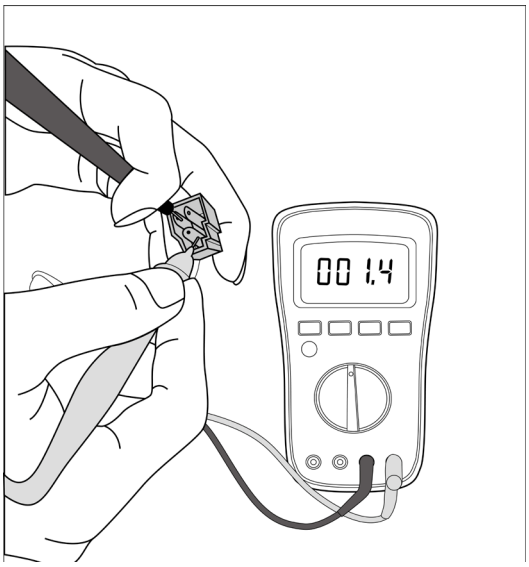
Resistance Value	KSK103D33UEZ3	KSN140D58UFZ	KTF250D22UMT	KTN110D42UFZ	KTF420D62UNT
Blue-Red	2.13Ω	1.86Ω	0.75Ω	1.82Ω	0.86Ω
Blue-Black					
Red-Black					

Resistance Value	KTN150D30UFZA	KTM240D46UKT2	KTF310D43UMT	ETPQ420D1UMUA ETPQ440D1UMUB KTQ420D1UMU EKPQ440D1UMUB	MTH356UKRC8FQL
Blue-Red	1.02Ω	1.04Ω	0.65Ω	0.37Ω	0.487Ω
Blue-Black					
Red-Black					

Resistance Value	MTH550UKPC8FU
Blue-Red	0.295Ω
Blue-Black	
Red-Black	

NOTE

The picture and the value are only for reference, actual condition and specific value may vary.



IPM Continuity Check

⚠ WARNING

Electricity remains in capacitors even when the power supply is off. Ensure the capacitors are fully discharged before troubleshooting.

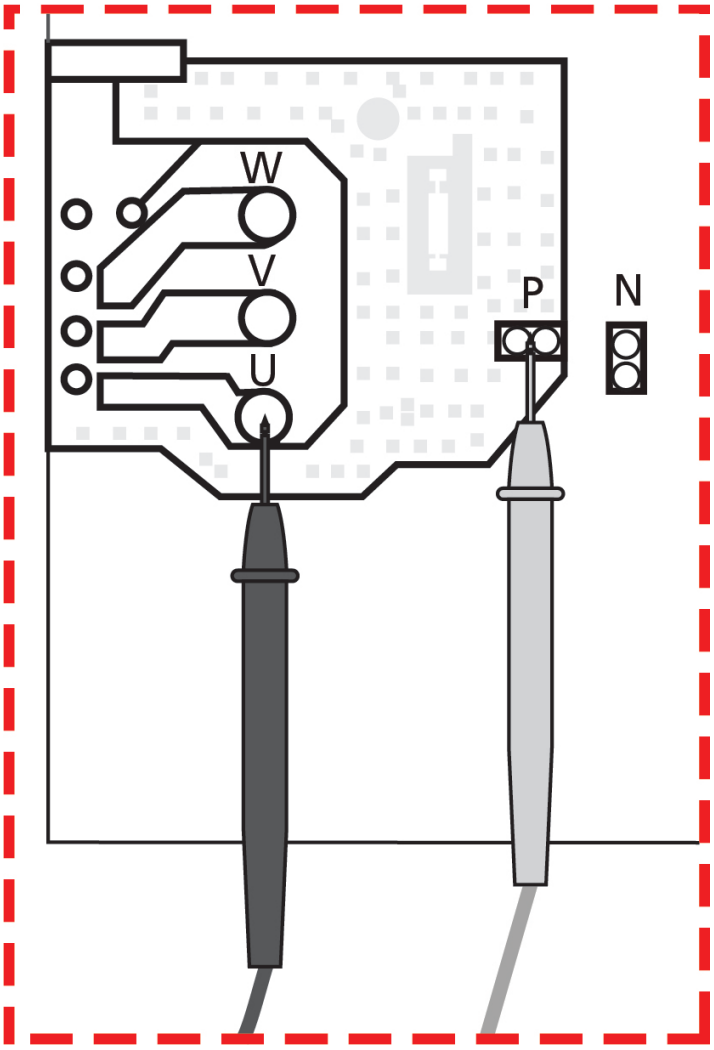
1. Turn off outdoor unit and disconnect power supply.
2. Discharge electrolytic capacitors and ensure all energy-storage units have been discharged.
3. Disassemble outdoor PCB or disassemble IPM board.
4. Measure the resistance value between P and U (V, W, N); U (V, W) and N.

Digital Tester		Resistance Value	Digital Tester		Resistance Value
(+) Red	(-) Black	∞ (Several MΩ)	(+) Red	(-) Black	∞ (Several MΩ)
P	N		U	N	
	U		V		
	V		W		
	W		-		

Or test the conductivity of IPM with diode mode.

Needle-Type Tester		Normal Value	Needle-Type Tester		Normal Value
Red	Black		Red	Black	
P	U	Open-Circuit	N	U	0.3-0.5 V
	V			V	
	W			W	

Needle-Type Tester		Normal Value	Needle-Type Tester		Normal Value
Black	Red		Black	Red	
P	U	0.3-0.5 V	N	U	Open-Circuit
	V			V	
	W			W	



NOTE

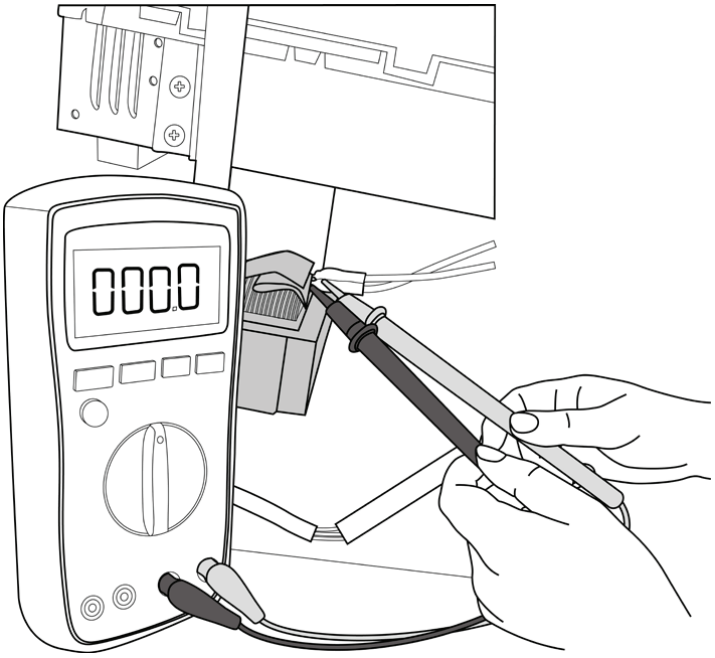
The picture and the value are only for reference, actual condition and specific value may vary.

Normal Voltage Of P And N

208-230 V (1-phase)		
In Standby		
Around 310VDC		
around 310VDC		
With passive PFC module	With partial active PFC module	With fully active PFC module
>200VDC	>200VDC	>370VDC

Reactor Check

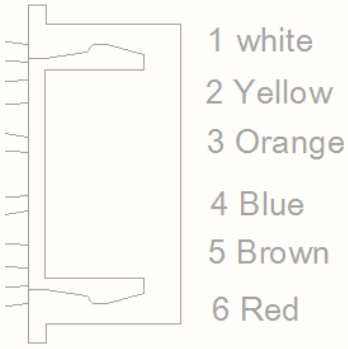
Measure the resistance and voltage (to ground) of the reactor. The normal resistance should be around 0.1 ohm. Otherwise, the reactor must have malfunction.



4-Way Valve Check

1. Power on, use a digital tester to measure the voltage, when the unit operates in cooling, it is 0V. When the unit operates in heating, it is about equal to power supply voltage.
   If the value of the voltage is not in the range, the PCB must have problems and need to be replaced.
2. Turn off the power, use a digital tester to measure the resistance. The value should be 1.8~2.5 KΩ.

EXV Check



1. Turn off the outdoor unit and disconnect the power supply.
2. Disconnect the connectors of the EXV.
3. Measure the resistance value between Red and Blue (Yellow), Brown and Orange (White).

Resistance to EXV coil

Color of Lead Wire	Normal Value
Red- Blue	About 50Ω
Red - Yellow	
Brown-Orange	
Brown-White	

Appendix

Temperature Sensor Resistance Value Table for TP (°C --K)

°C	°F	K Ohm	°C	°F	K Ohm	°C	°F	K Ohm	°C	°F	K Ohm
-20	-4	542.7	20	68	68.66	60	140	13.59	100	212	3.702
-19	-2	511.9	21	70	65.62	61	142	13.11	101	214	3.595
-18	0	483	22	72	62.73	62	144	12.65	102	216	3.492
-17	1	455.9	23	73	59.98	63	145	12.21	103	217	3.392
-16	3	430.5	24	75	57.37	64	147	11.79	104	219	3.296
-15	5	406.7	25	77	54.89	65	149	11.38	105	221	3.203
-14	7	384.3	26	79	52.53	66	151	10.99	106	223	3.113
-13	9	363.3	27	81	50.28	67	153	10.61	107	225	3.025
-12	10	343.6	28	82	48.14	68	154	10.25	108	226	2.941
-11	12	325.1	29	84	46.11	69	156	9.902	109	228	2.86
-10	14	307.7	30	86	44.17	70	158	9.569	110	230	2.781
-9	16	291.3	31	88	42.33	71	160	9.248	111	232	2.704
-8	18	275.9	32	90	40.57	72	162	8.94	112	234	2.63
-7	19	261.4	33	91	38.89	73	163	8.643	113	235	2.559
-6	21	247.8	34	93	37.3	74	165	8.358	114	237	2.489
-5	23	234.9	35	95	35.78	75	167	8.084	115	239	2.422
-4	25	222.8	36	97	34.32	76	169	7.82	116	241	2.357
-3	27	211.4	37	99	32.94	77	171	7.566	117	243	2.294
-2	28	200.7	38	100	31.62	78	172	7.321	118	244	2.233
-1	30	190.5	39	102	30.36	79	174	7.086	119	246	2.174
0	32	180.9	40	104	29.15	80	176	6.859	120	248	2.117
1	34	171.9	41	106	28	81	178	6.641	121	250	2.061
2	36	163.3	42	108	26.9	82	180	6.43	122	252	2.007
3	37	155.2	43	109	25.86	83	181	6.228	123	253	1.955
4	39	147.6	44	111	24.85	84	183	6.033	124	255	1.905
5	41	140.4	45	113	23.89	85	185	5.844	125	257	1.856
6	43	133.5	46	115	22.89	86	187	5.663	126	259	1.808
7	45	127.1	47	117	22.1	87	189	5.488	127	261	1.762
8	46	121	48	118	21.26	88	190	5.32	128	262	1.717
9	48	115.2	49	120	20.46	89	192	5.157	129	264	1.674
10	50	109.8	50	122	19.69	90	194	5	130	266	1.632
11	52	104.6	51	124	18.96	91	196	4.849			
12	54	99.69	52	126	18.26	92	198	4.703			
13	55	95.05	53	127	17.58	93	199	4.562			
14	57	90.66	54	129	16.94	94	201	4.426			
15	59	86.49	55	131	16.32	95	203	4.294			
16	61	82.54	56	133	15.73	96	205	4.167			
17	63	78.79	57	135	15.16	97	207	4.045			
18	64	75.24	58	136	14.62	98	208	3.927			
19	66	71.86	59	138	14.09	99	210	3.812			

Other Temperature Sensors Resistance Value Table (°C – K)

°C	°F	K Ohm	°C	°F	K Ohm	°C	°F	K Ohm	°C	°F	K Ohm
-20	-4	115.266	20	68	12.6431	60	140	2.35774	100	212	0.62973
-19	-2	108.146	21	70	12.0561	61	142	2.27249	101	214	0.61148
-18	0	101.517	22	72	11.5	62	144	2.19073	102	216	0.59386
-17	1	96.3423	23	73	10.9731	63	145	2.11241	103	217	0.57683
-16	3	89.5865	24	75	10.4736	64	147	2.03732	104	219	0.56038
-15	5	84.219	25	77	10	65	149	1.96532	105	221	0.54448
-14	7	79.311	26	79	9.55074	66	151	1.89627	106	223	0.52912
-13	9	74.536	27	81	9.12445	67	153	1.83003	107	225	0.51426
-12	10	70.1698	28	82	8.71983	68	154	1.76647	108	226	0.49989
-11	12	66.0898	29	84	8.33566	69	156	1.70547	109	228	0.486
-10	14	62.2756	30	86	7.97078	70	158	1.64691	110	230	0.47256
-9	16	58.7079	31	88	7.62411	71	160	1.59068	111	232	0.45957
-8	18	56.3694	32	90	7.29464	72	162	1.53668	112	234	0.44699
-7	19	52.2438	33	91	6.98142	73	163	1.48481	113	235	0.43482
-6	21	49.3161	34	93	6.68355	74	165	1.43498	114	237	0.42304
-5	23	46.5725	35	95	6.40021	75	167	1.38703	115	239	0.41164
-4	25	44	36	97	6.13059	76	169	1.34105	116	241	0.4006
-3	27	41.5878	37	99	5.87359	77	171	1.29078	117	243	0.38991
-2	28	39.8239	38	100	5.62961	78	172	1.25423	118	244	0.37956
-1	30	37.1988	39	102	5.39689	79	174	1.2133	119	246	0.36954
0	32	35.2024	40	104	5.17519	80	176	1.17393	120	248	0.35982
1	34	33.3269	41	106	4.96392	81	178	1.13604	121	250	0.35042
2	36	31.5635	42	108	4.76253	82	180	1.09958	122	252	0.3413
3	37	29.9058	43	109	4.5705	83	181	1.06448	123	253	0.33246
4	39	28.3459	44	111	4.38736	84	183	1.03069	124	255	0.3239
5	41	26.8778	45	113	4.21263	85	185	0.99815	125	257	0.31559
6	43	25.4954	46	115	4.04589	86	187	0.96681	126	259	0.30754
7	45	24.1932	47	117	3.88673	87	189	0.93662	127	261	0.29974
8	46	22.5662	48	118	3.73476	88	190	0.90753	128	262	0.29216
9	48	21.8094	49	120	3.58962	89	192	0.8795	129	264	0.28482
10	50	20.7184	50	122	3.45097	90	194	0.85248	130	266	0.2777
11	52	19.6891	51	124	3.31847	91	196	0.82643	131	268	0.27078
12	54	18.7177	52	126	3.19183	92	198	0.80132	132	270	0.26408
13	55	17.8005	53	127	3.07075	93	199	0.77709	133	271	0.25757
14	57	16.9341	54	129	2.95896	94	201	0.75373	134	273	0.25125
15	59	16.1156	55	131	2.84421	95	203	0.73119	135	275	0.24512
16	61	15.3418	56	133	2.73823	96	205	0.70944	136	277	0.23916
17	63	14.6181	57	135	2.63682	97	207	0.68844	137	279	0.23338
18	64	13.918	58	136	2.53973	98	208	0.66818	138	280	0.22776
19	66	13.2631	59	138	2.44677	99	210	0.64862	139	282	0.22231

System Pressure Table-R454B

Pressure			Temperature		Pressure			Temperature	
Kpa	bar	PSI	°C	°F	Kpa	bar	PSI	°C	°F
58.196	0.58	8.44	-60	-76	935.23	9.35	135.64	8	46.4
61.517	0.62	8.92	-59	-74.2	963.75	9.64	139.78	9	48.2
64.988	0.65	9.43	-58	-72.4	992.93	9.93	144.01	10	50
68.615	0.69	9.95	-57	-70.6	1,022.8	10.23	148.34	11	51.8
72.402	0.72	10.50	-56	-68.8	1,053.3	10.53	152.76	12	53.6
76.354	0.76	11.07	-55	-67	1,084.5	10.85	157.29	13	55.4
80.478	0.80	11.67	-54	-65.2	1,116.4	11.16	161.91	14	57.2
84.776	0.85	12.30	-53	-63.4	1149	11.49	166.64	15	59
89.256	0.89	12.95	-52	-61.6	1,182.3	11.82	171.47	16	60.8
93.923	0.94	13.62	-51	-59.8	1,216.3	12.16	176.40	17	62.6
98.781	0.99	14.33	-50	-58	1,251.1	12.51	181.45	18	64.4
103.84	1.04	15.06	-49	-56.2	1,286.6	12.87	186.60	19	66.2
109.1	1.09	15.82	-48	-54.4	1,322.8	13.23	191.85	20	68
114.56	1.15	16.61	-47	-52.6	1,359.9	13.60	197.23	21	69.8
120.25	1.20	17.44	-46	-50.8	1,397.7	13.98	202.71	22	71.6
126.15	1.26	18.30	-45	-49	1,436.3	14.36	208.31	23	73.4
132.28	1.32	19.18	-44	-47.2	1,475.7	14.76	214.02	24	75.2
138.64	1.39	20.11	-43	-45.4	1,515.9	15.16	219.85	25	77
145.24	1.45	21.06	-42	-43.6	1557	15.57	225.82	26	78.8
152.09	1.52	22.06	-41	-41.8	1,598.9	15.99	231.89	27	80.6
159.18	1.59	23.09	-40	-40	1,641.6	16.42	238.09	28	82.4
166.54	1.67	24.15	-39	-38.2	1,685.2	16.85	244.41	29	84.2
174.15	1.74	25.26	-38	-36.4	1,729.7	17.30	250.86	30	86
182.04	1.82	26.40	-37	-34.6	1775	17.75	257.43	31	87.8
190.2	1.90	27.59	-36	-32.8	1,821.3	18.21	264.15	32	89.6
198.65	1.99	28.81	-35	-31	1,868.4	18.68	270.98	33	91.4
207.39	2.07	30.08	-34	-29.2	1,916.5	19.17	277.95	34	93.2
216.42	2.16	31.39	-33	-27.4	1,965.6	19.66	285.08	35	95
225.76	2.26	32.74	-32	-25.6	2,015.5	20.16	292.31	36	96.8
235.41	2.35	34.14	-31	-23.8	2,066.5	20.67	299.71	37	98.6
245.37	2.45	35.59	-30	-22	2,118.4	21.18	307.24	38	100.4
255.67	2.56	37.08	-29	-20.2	2,171.3	21.71	314.91	39	102.2
266.29	2.66	38.62	-28	-18.4	2,225.2	22.25	322.73	40	104
277.25	2.77	40.21	-27	-16.6	2,280.2	22.80	330.70	41	105.8
288.56	2.89	41.85	-26	-14.8	2,336.1	23.36	338.81	42	107.6
300.22	3.00	43.54	-25	-13	2,393.2	23.93	347.09	43	109.4
312.24	3.12	45.28	-24	-11.2	2,451.3	24.51	355.52	44	111.2
324.63	3.25	47.08	-23	-9.4	2,510.4	25.10	364.09	45	113
337.39	3.37	48.93	-22	-7.6	2,570.7	25.71	372.84	46	114.8
350.54	3.51	50.84	-21	-5.8	2,632.1	26.32	381.74	47	116.6
364.08	3.64	52.80	-20	-4	2,694.7	26.95	390.82	48	118.4
378.02	3.78	54.83	-19	-2.2	2,758.3	27.58	400.04	49	120.2
392.37	3.92	56.91	-18	-0.4	2,823.2	28.23	409.46	50	122
407.13	4.07	59.05	-17	1.4	2,889.3	28.89	419.04	51	123.8
422.31	4.22	61.25	-16	3.2	2,956.5	29.57	428.79	52	125.6
437.92	4.38	63.51	-15	5	3025	30.25	438.72	53	127.4

System Pressure Table-R454B (continued)

Pressure			Temperature		Pressure			Temperature	
Kpa	**bar**	**PSI**	**°C**	**°F**	**Kpa**	**bar**	**PSI**	**°C**	**°F**
453.98	4.54	65.84	-14	6.8	3,094.7	30.95	448.83	54	129.2
470.47	4.70	68.23	-13	8.6	3,165.7	31.66	459.13	55	131
487.43	4.87	70.69	-12	10.4	3,238.1	32.38	469.63	56	132.8
504.84	5.05	73.22	-11	12.2	3,311.7	33.12	480.30	57	134.6
522.73	5.23	75.81	-10	14	3,386.7	33.87	491.18	58	136.4
541.1	5.41	78.48	-9	15.8	3,463	34.63	502.25	59	138.2
559.95	5.60	81.21	-8	17.6	3,540.7	35.41	513.52	60	140
579.31	5.79	84.02	-7	19.4	3,619.9	36.20	525.00	61	141.8
599.16	5.99	86.90	-6	21.2	3,700.5	37.01	536.69	62	143.6
619.54	6.20	89.85	-5	23	3,782.7	37.83	548.61	63	145.4
640.43	6.40	92.88	-4	24.8	3,866.3	38.66	560.74	64	147.2
661.86	6.62	95.99	-3	26.6	3,951.5	39.52	573.10	65	149
683.82	6.84	99.18	-2	28.4	4,038.3	40.38	585.69	66	150.8
706.34	7.06	102.44	-1	30.2	4,126.8	41.27	598.52	67	152.6
729.41	7.29	105.79	0	32	4,217	42.17	611.60	68	154.4
753.06	7.53	109.22	1	33.8	4,309	43.09	624.95	69	156.2
777.28	7.77	112.73	2	35.6	4,402.9	44.03	638.56	70	158
802.08	8.02	116.33	3	37.4	4,498.7	44.99	652.46	71	159.8
827.48	8.27	120.01	4	39.2	4,596.5	45.97	666.64	72	161.6
853.49	8.53	123.78	5	41	4,696.5	46.97	681.15	73	163.4
880.11	8.80	127.64	6	42.8	4,798.9	47.99	696.00	74	165.2
907.35	9.07	131.60	7	44.6	4,904.1	49.04	711.25	75	167

Important!
Product Warranty Information

The Warranty Registration below is a requirement to print a warranty certificate. You're not mandated to register your products to enjoy the Midea Standard Warranty; however, registration is highly recommended. Registering your warranty within 60 days ensures easy access to support and service when needed.

The design and specifications may change without prior notice in order to enhance the product. For detailed information, please consult your sales agency or the manufacturer. Any updates to the manual will be posted on the service website, so be sure to check for the latest version.

United States

https://www.mideacomfort.us/registration.html

Canada

https://www.mideacomfortna.ca/registration.html

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