



SYSTEM AIR CONDITIONER

INDOOR UNIT

AVXCSH023/032/040CE
AVXC4H052/072/100/110/145CE
AVXCMH032/040/052/060CE
AVXDSH020/032/040/052/072/100/110/145CE
AVXDUH100/110/145CE
AVXWVH020/032/040/052/060CE
AVXWNH020/032/040/052/060CE
ND023/032/0401HXCA
ND052/072/100/1454HXCA
ND032/040/052/060MHXCA
ND020/032/040/052/072/100/110/145LHXCA
ND100/110/145SHXCA
ND220/280HHXCE(CA)
ND020/032/040/052/060VHXCA
ND020/032/040/052/060NHXCA
ND052/072CHXCA
ND020/032/040/052/060QHXCA
ND052/072/100/110/1454HXCB

OUTDOOR UNIT

RVXVHT075/100/125FE
RD040/050MHXCA
RD075/100/125VHXFA
RD075/100/125VRXFA

SERVICE *Manual*

AIR CONDITIONER



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1. Precautions

1-1 Precautions for the Service

- **Use the standard parts when replacing the electric parts.**
 - Confirm the model name, rated voltage, rated current of the electric parts.
- **Repair the disconnection of HARNESS securely when repairing the break down.**
 - If there is any connection error, it causes an abnormal noise and incorrect operation.
- **In case that you assemble or disassemble the products with laying it on the side, do work on the work cloth.**
 - If not, the exterior of products can be scratched.
- **Remove dust and foreign materials from harness, connection part, and inspection part thoroughly when repairing the break down.**
 - It protects the danger of fire such as tracking and short.
- **Tighten tightly the service valve of outdoor unit and the cap of charging valve with a monkey spanner.**
- **Check the assembly status of parts after repairing the break down.**
 - It should be same as the status before repairing.

1-2 Precautions for the Static Electricity and PL

- **As the PCB power terminal has a weakness for the static electricity, pay attention to it during the repair and measurement.**
 - Work with insulation gloves during the repair and measurement of PCB.
- **Check the distance between the product and the other electronic appliances such as TV, video, and audio. It should be over 6.6ft.**
 - If not, it causes a bad picture quality or a noise.
- **Repairing the products by consumer should be strictly prohibited.**
 - There is a danger of electric shock or fire due to incorrect disassembly.

1-3 Precautions for the Safety

- **Do not pull any electric wires and do not touch an auxiliary power switch with a wet hand.**
 - There is a danger of electric shock or fire.
- **In case any wire or power plug has been damaged, replace it to eliminate any possible danger.**
- **Do not bend the power cord by force and do not put any heavy object on the power cord.**
 - There is a danger of electric shock or fire.
- **Do not use multi socket.**
 - There is a danger of electric shock or fire.
- **Ground the product if necessary.**
 - Be sure to ground the product if there is any danger of electric leakage due to water or moisture.
- **Be sure to turn off the auxiliary power switch or pull out the power plug during replacement or repair of electric parts.**
 - There is a danger of electric shock.
- **In case the product will not be in use for a long time, the battery of remote control should be kept separately.**
 - Leakage of inside fluid can cause break down of remote control.
- **The installation must be done by the manufacturer or its service agent or a similar qualified person in order to avoid a hazard.**
 - Installation by an unqualified person may cause a water leakage, electric shock or fire and so on.
- **The electric work must be done by service agent or similarly qualified persons according to national wiring regulations and use only rated cable.**
 - If the capacity of the power cable is insufficient or electric work is not properly completed, electric shock or fire may occur.
- **Use only rated parts and tools.**
 - If you don't use the rated parts and tools, it can cause trouble with the air conditioner and bring about injury.
- **If any gas or impurities except R410A refrigerant come into the refrigerant pipe, serious problem may occur and it may cause injury.**
- **Leak test must be done using only Nitrogen(NO₂)gas.**

- R410A refrigerant is used for DVM PLUS III, SUPER FJM air conditioner.
 - When using R410A, moisture or foreign substances may affect to the capacity and reliability of the product. Safety precautions must be taken when installing the refrigerant pipe.
 - The design pressure of the unit is 4.1MPa. Select appropriate material and thickness according to the regulations.
 - R410A is a quasi-azeotrope of two refrigerants.
 - Make sure to charge liquid one when adding refrigerant.
 - If you charge gaseous refrigerant, it may affect the capacity and reliability of the product as a result of change formation of the refrigerant.
- Connect only the indoor units fit on R410A refrigerant. Check whether the indoor units can be connected with the product's catalogue. (When incorrect indoor units are connected, they cannot operate normally.)

1-4 Others

- When installing, make sure there is no leakage. When recovering the refrigerant, ground the compressor first before removing the connection pipe. If the refrigerant pipe is not properly connected and the compressor works with the service valve open, the pipe inhales the air and it makes the pressure inside of the refrigerant cycle abnormally high. It may cause explosion and injury.

2. Product Specifications

2-1 The Feature of Product

2-1-1 Feature

2-1-1-1 RVXVHT075/100/125FE, RD075/100/125VHXFA, RD075/100/125VRXFA

1. Introduction

DVM PLUS III is a module multi-system air conditioner that has the world's largest capacity(7.5~37.5HP) with the application of a DVI (Digital Vapor Injection) compressor, and can connect up to a maximum of 49 indoor units.

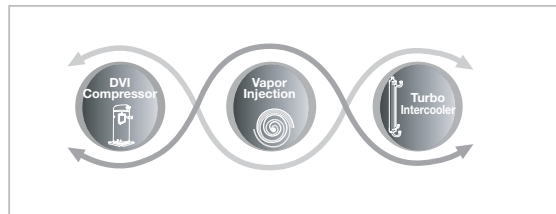


- The highest COP levels in the industry
- The smallest installation space requirement in the world
- The highest heating capacity and COP in low temperature condition (14°F/-10°C)
- Possible to connect up to 49 indoor units
- Digital unit module

2. New technology of DVM PLUS III

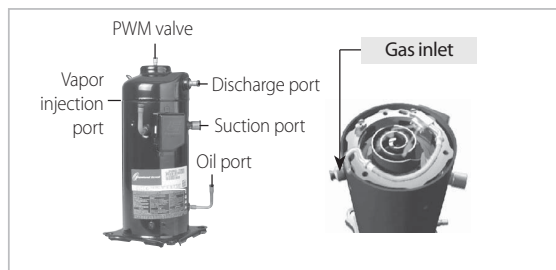
■ Digital hybrid system

DHS (Digital Hybrid System) is a brand new concept system composed of DVI (Digital Vapor Injection) compressor, vapor injection technology and turbo intercooler. These 3 factors together provide highly efficient performance.



1) DVI compressor

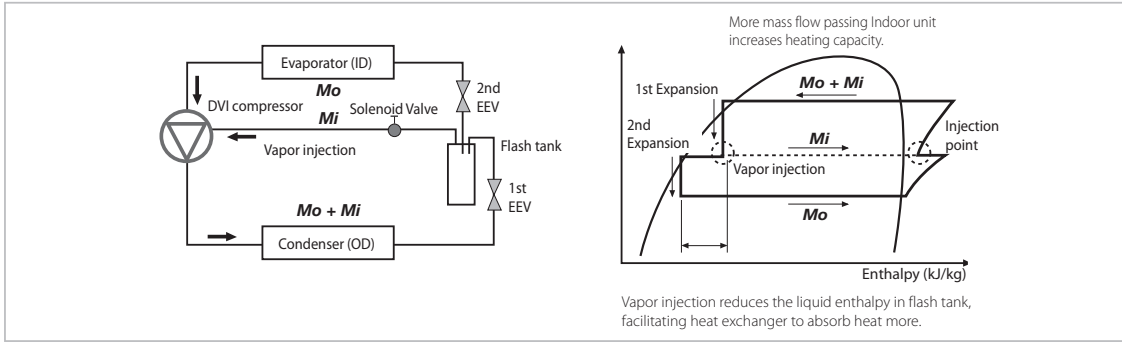
Efficient and reliable DVI (Digital Vapor Injection) compressor coupled with vapor injection technology has been applied to improve cooling and heating performance and energy efficiency.



2) Vapor injection technology

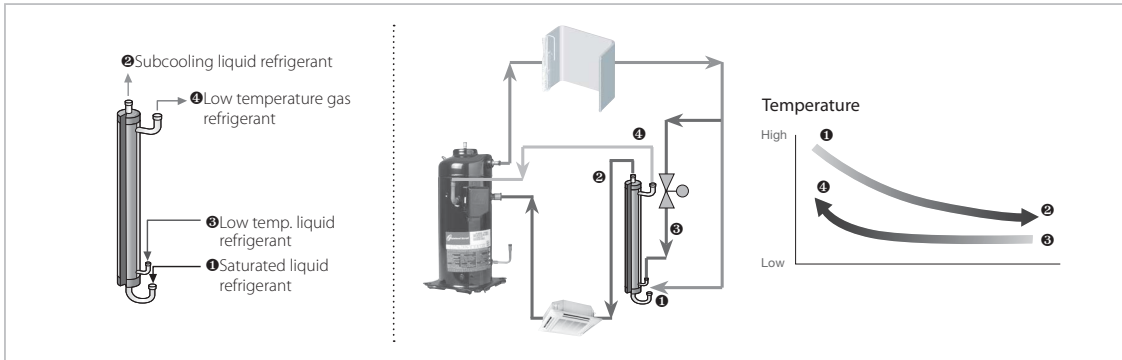
Improved cooling and heating performance and COP by a new technology of two stage compression. As injecting optimized mid-range pressure refrigerant, this technology achieved the high heating performance and COP under the lowest temperature, which leads the industry.

- Increase refrigerant flow rates with a new vapor injection technology.
- Improved sub-cooling necessary for long piping installation while increasing cooling and heating performance and COP.



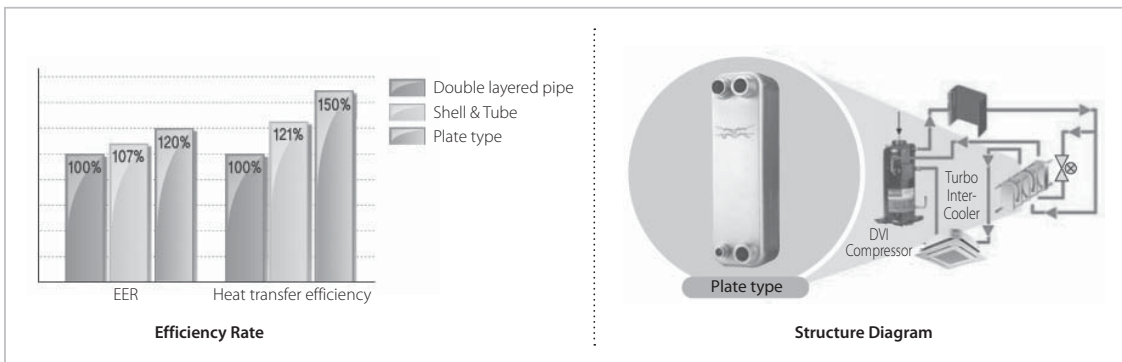
3) Turbo intercooler (RVXVH075/100/125FE, RD075/100/125VHXFA Only)

Turbo intercooler (Shell & tube type) improves cooling and heating COP and secures reliable operation of installation with long piping [200m(656ft)].



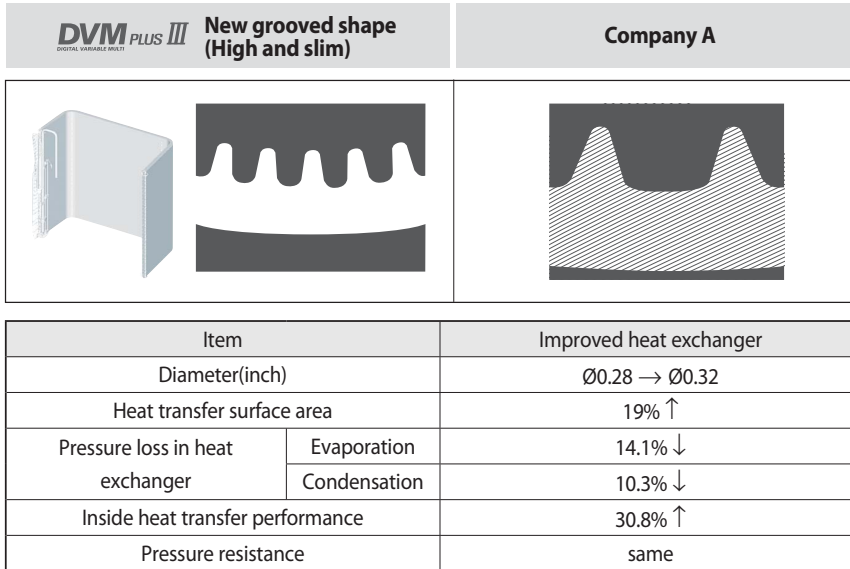
4) Plate type intercooler (RD075/100/125VRXFA Only)

The plate type intercooler is the new concept intercooler technology which is more advanced than the existing double layered pipe type and Shell & Tube type heat exchanger. The plate type intercooler increases heat exchange efficiency by 30% and provides stable performance with long piping and vertical piping.



High efficiency Ø0.32 heat exchanger

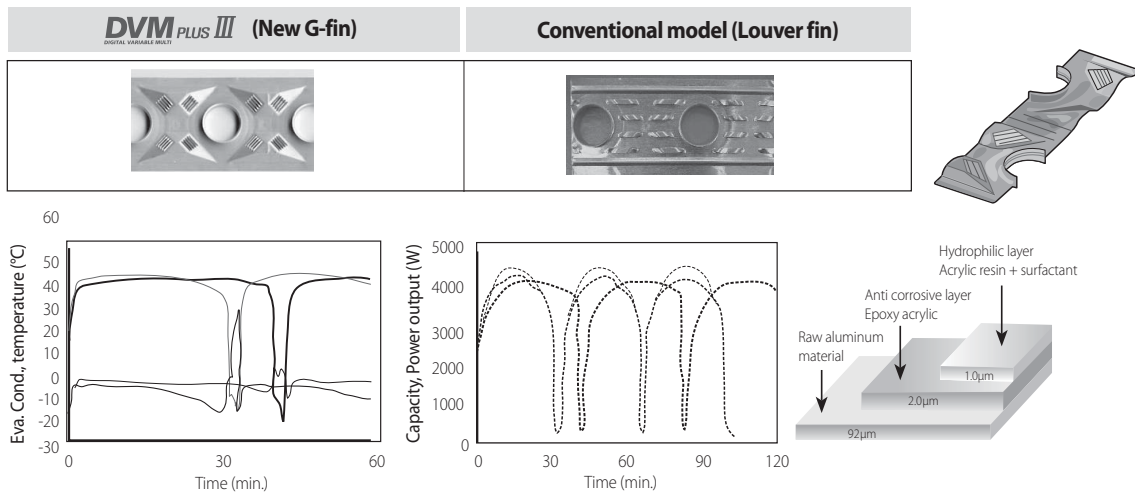
Efficient Ø0.32 grooved tube reduced pressure loss while increasing heat exchange rates to improve COP. Grooved shape is designed to be high and slim to increase heat transfer performance inside the tube.



New G-fin

Highly efficient new G-fin increased heat transfer performance, reinforced corrosion resistance, and increased operating duration in frost condition.

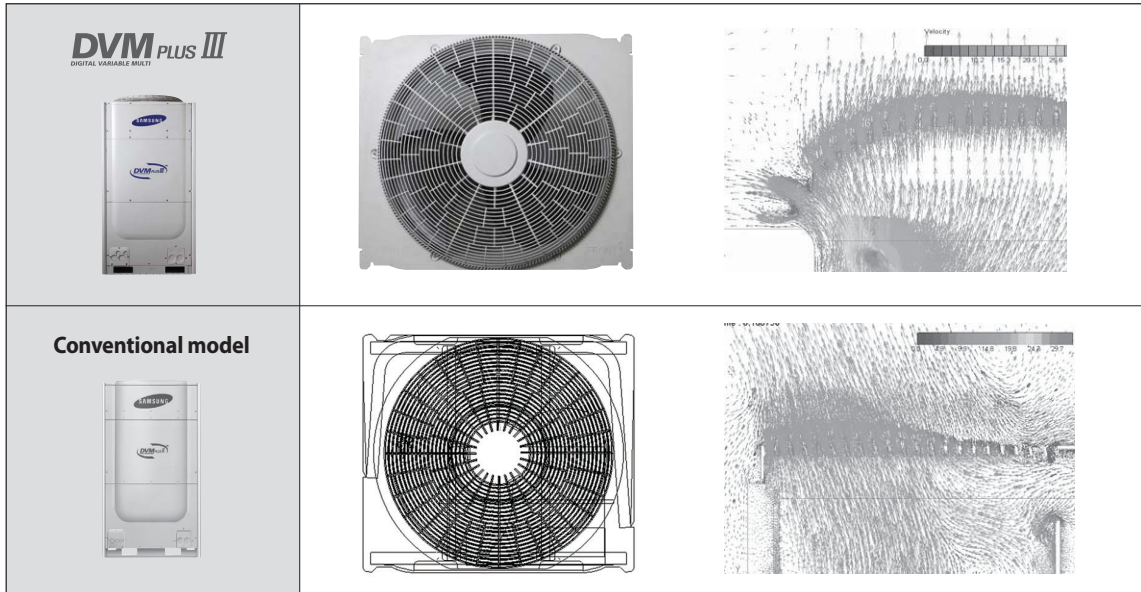
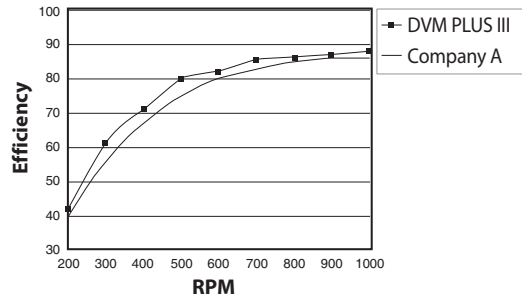
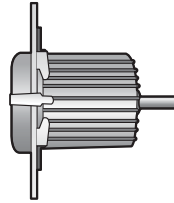
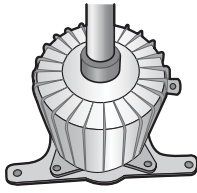
- Heat transfer performance improved by 13% compared to the conventional fin, even with the equivalent pressure loss.
- Epoxy acrylic coating reinforced corrosion resistance.
- 1.4 times longer heating operation in frost condition thanks to new G-fin.



■ Newly designed fan guard

Fan guard has been optimized to improve air volume and reduce noise and vibration.

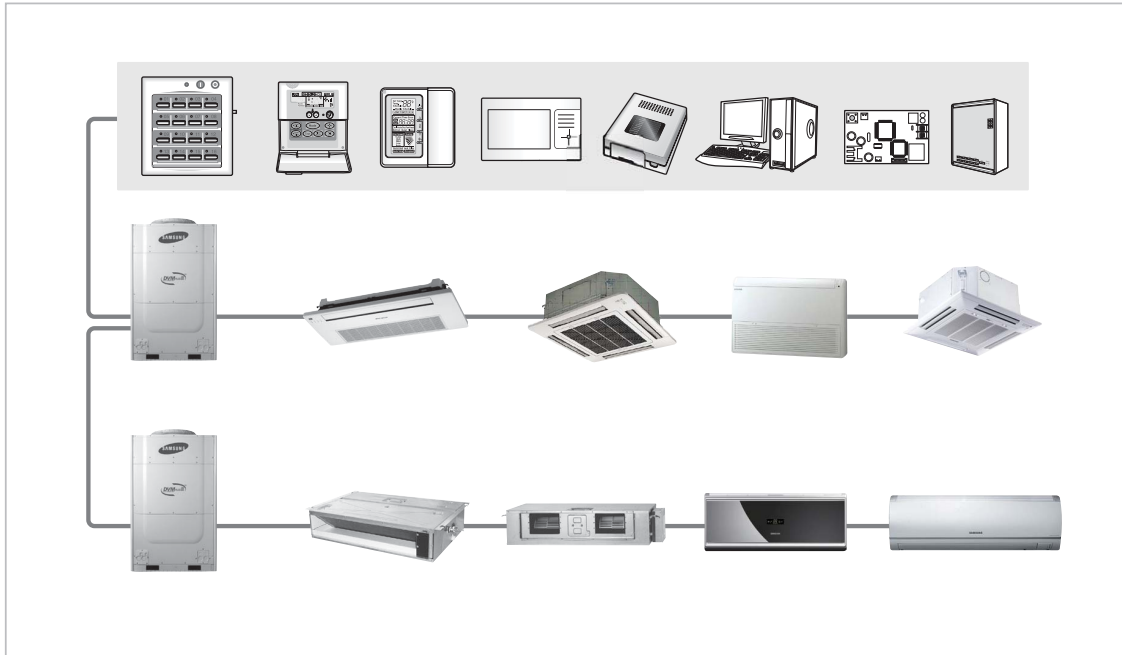
- BLDC motor, which is 2.7% more efficient than the competitors has been applied.
- High static pressure propeller fan and the optimum Bell mouth figuration for high external static pressure. (8mmAq)



■ **Upgraded control solutions**

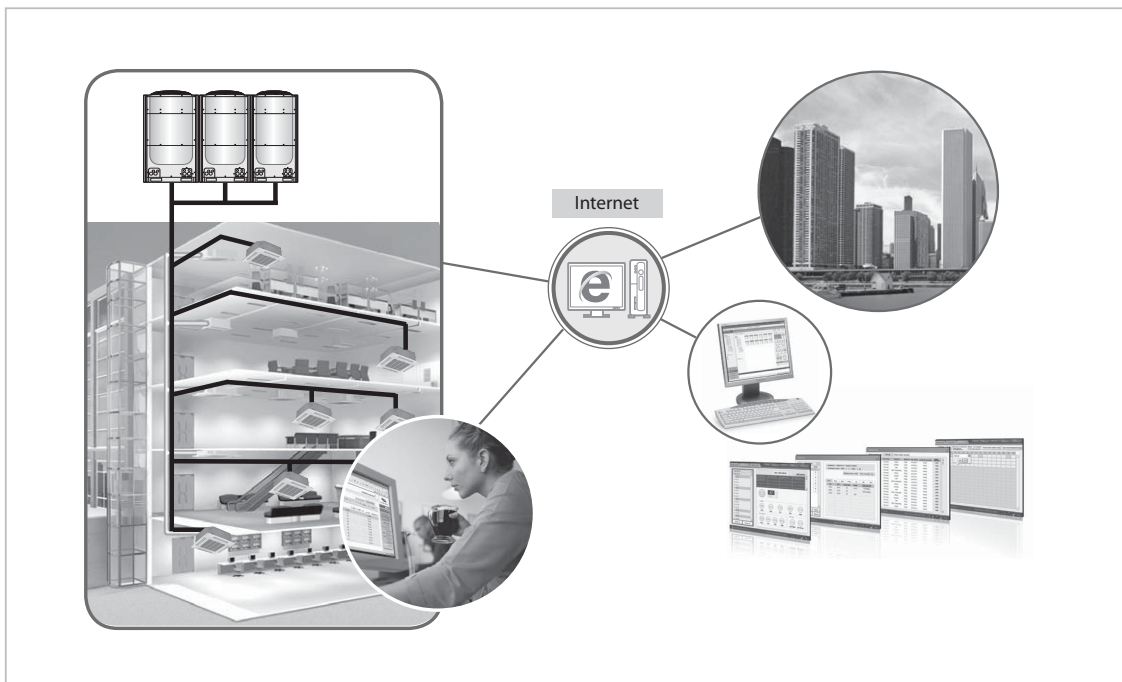
1) Easy management system

A wide range of control system is provided to support various needs and applications such as individual or central control and automated building management.



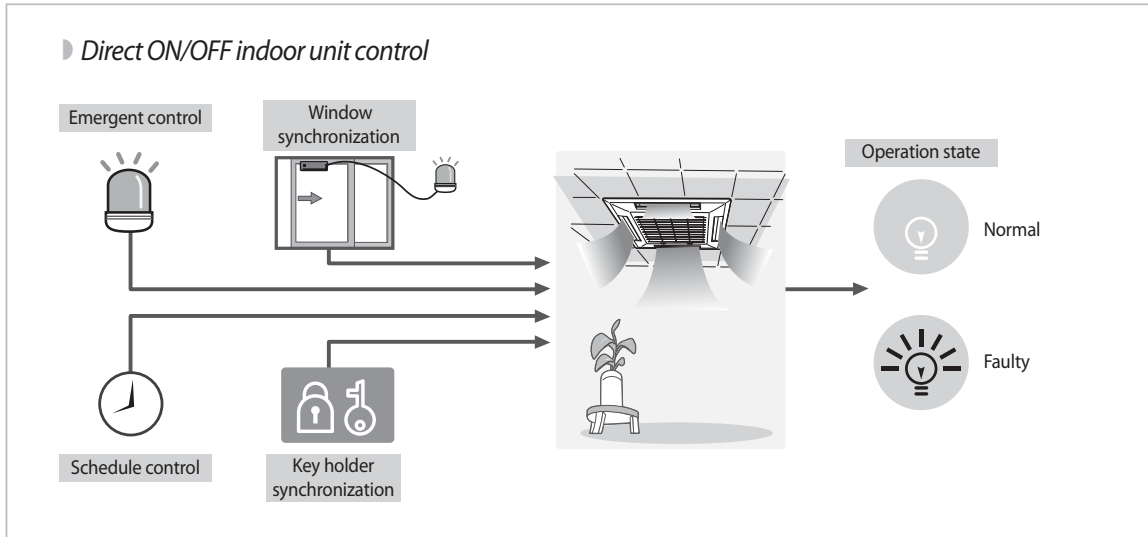
2) Enhanced remote analysis

System managers, installers or service engineers can monitor the whole air-conditioning system through the internet, analyzing the operation and providing service promptly.



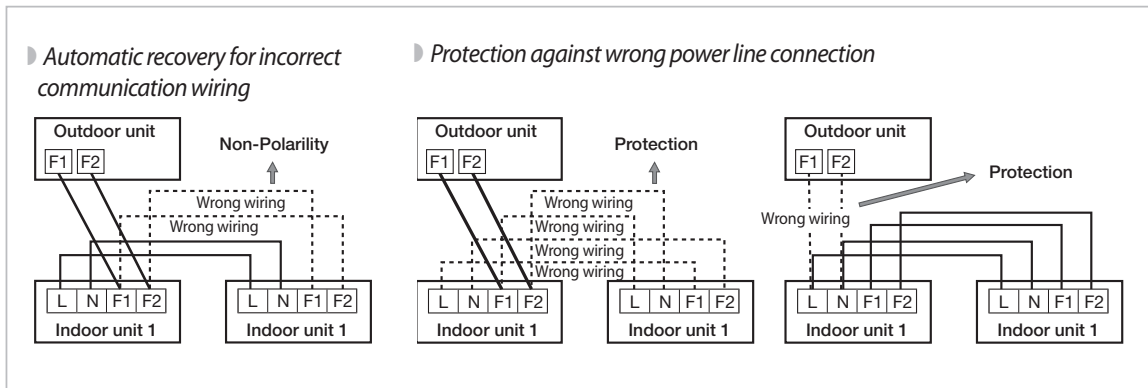
3) Simple contact control

Contact interface makes it possible to connect mechanical contacts to indoor units directly, allowing individual and group control as well as malfunction monitoring of the indoor units.



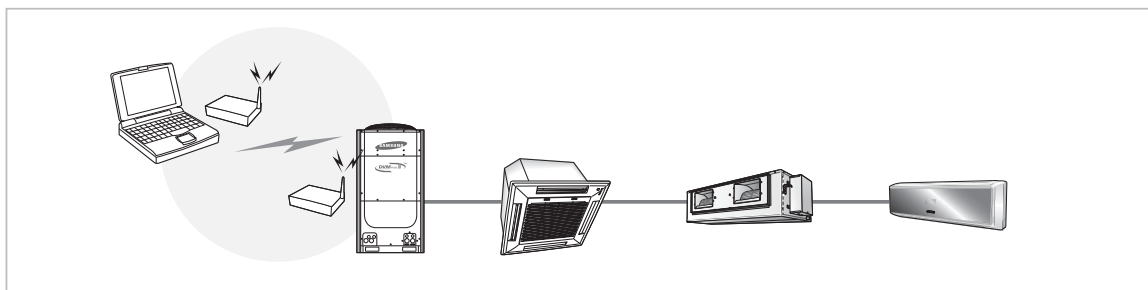
4) Wrong wiring protection

Non-polarity communication ensures Normal Operation of air-conditioning system even in case of wrong communication wiring. Furthermore, power protection mechanism protects indoor units from blowing out under a crossed connection between power and communication wires, resulting in enhancing system safety and robustness.



5) Wireless test run tool

Zigbee wireless test run tool provides installers with easy and convenient control and monitoring of the outdoor unit and 49 indoor units without bothersome wiring.



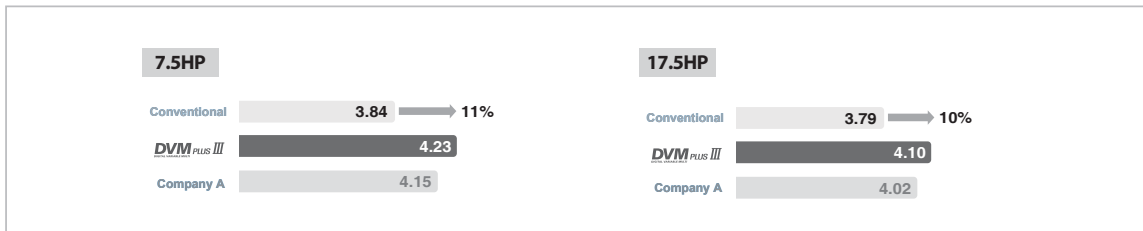
3. Main features of DVM PLUS III, DVM PLUS III HR

□ High Performance and Efficiency

■ High COP

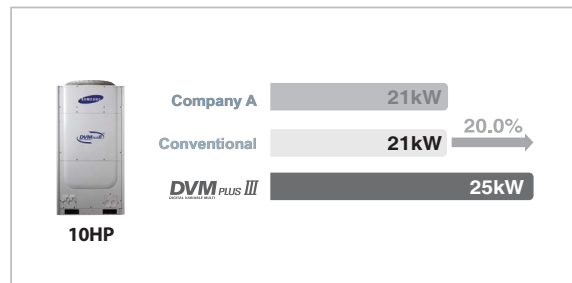
High efficiency DVM PLUS III has improved average cooling and heating COP compared to conventional products and achieved the world's top class energy efficiency.

- DHS(Digital Hybrid System) technology increased refrigerant flow rate and evaporation enthalpy difference.
- Wide Ø0.32 Grooved tube and new G-fin increased heat exchange efficiency.
- The best BLDC motor in the industry and optimum fan guard design increased efficiency.



■ Improved heating performance

Vapor injection technology has improved heating performance by 20% at a low ambient temperature of (14°F/-10°C).



□ **Simple and Easy Installation**

■ **Digital unit module**

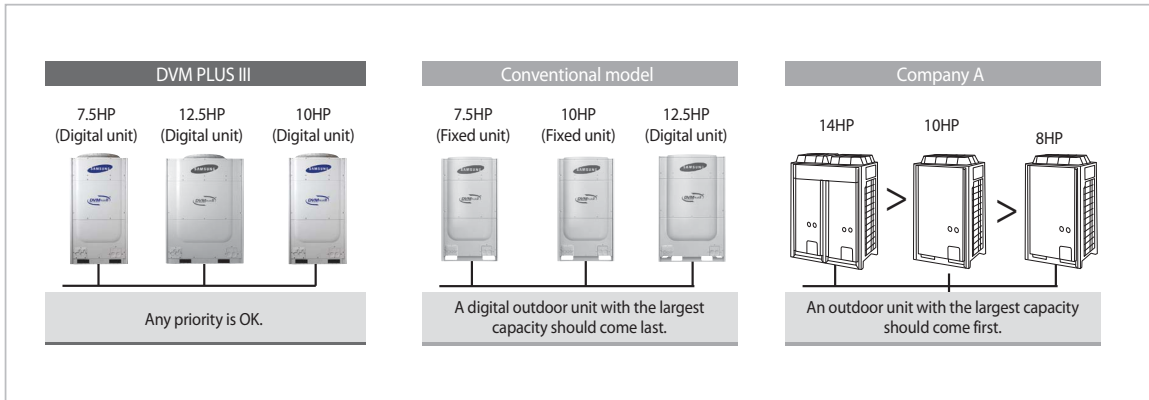
Digital unit module combination enables the system to alternate compressor operation to prolong each compressor's life cycle and improves COP with part loads.

- Control the compressor capacity precisely.
- Ensure long life cycle by alternating operation of the DVI compressors.
- Improve COP using multiple heat exchangers of outdoor units at part loads.





■ **Free installation**

DVM PLUS III provides the degree of freedom from priority of capacity when installing outdoor units in module.

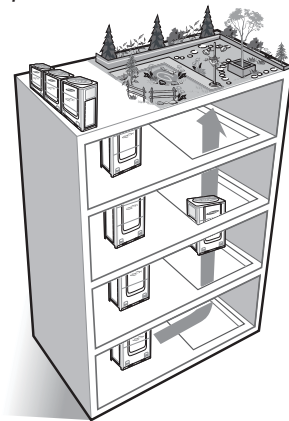


■ **Small size and light weight**

To facilitate the convenience and mobility of module installation, DVM PLUS III is the best compact air conditioner in the world with its small size and weight. It reduces the burden of weight and minimizes the required installation space (it can be installed in the rooftop), ensuring a more spacious place for relaxation, parking lots, or additional offices, for instance.

Item	Conventional model	DVM PLUS III <small>DIGITAL VARIABLE MODULE</small>
Design		
Weight	250kg(551lbs) (100%)	240kg(529lbs) (96%)

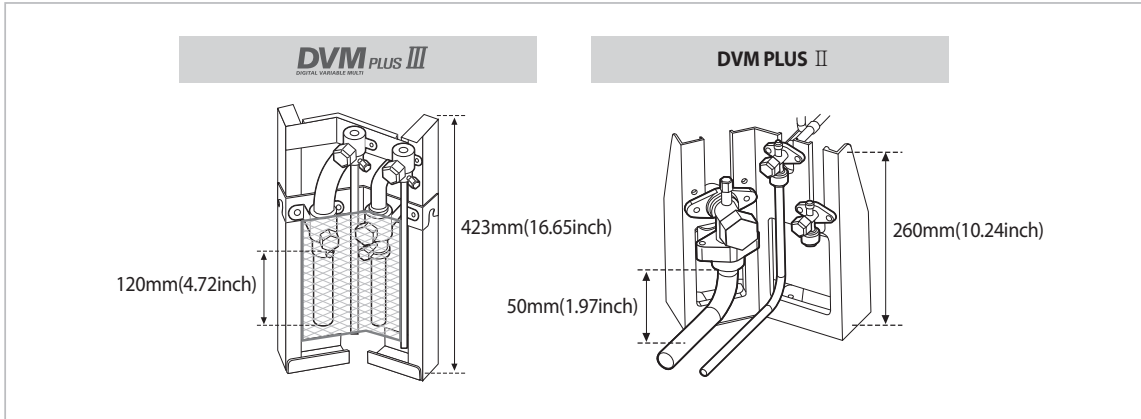
▷ **Rooftop space (Garden)**



■ Rapid installation

DVM PLUS III supports more convenient and rapid installation work through the improvement of service valve structure and the provision of branch joints.

- Improved the location of service valve and welding points for aiding piping connection work
- Modified the plate into open structure type for keeping interference out during welding work
- The application of OTS (One Touch Solution) valve that makes it easy to connect pipes and to open or shut valves.



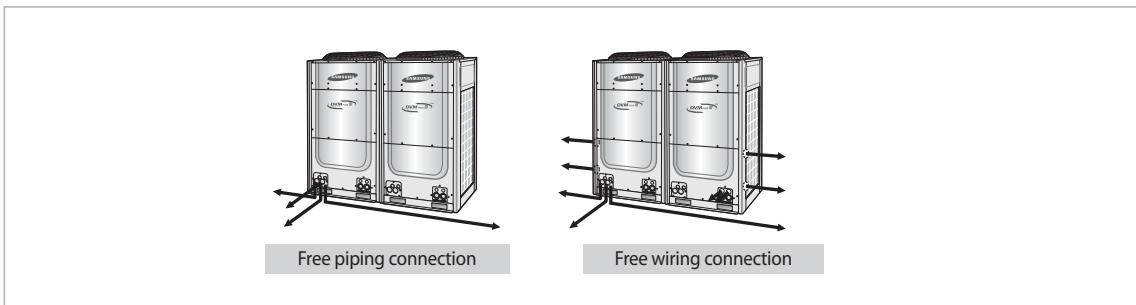
↳ Y, Header, Outdoor joints allow easy piping expansion and reduction with insulations to facilitate the installation.

Y-joint	Outdoor joint	Header joint

■ Free piping & wiring directions

DVM PLUS III is easy to install as its piping can be connected from front, right, left and bottom side.

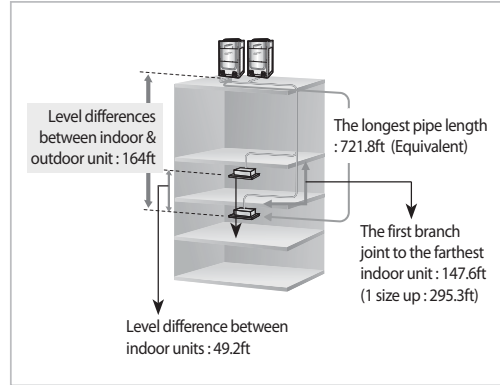
Wiring hole (Conduits) adds convenience as it allows power and communication lines to be connected in various ways and directions.



■ The world's longest piping length

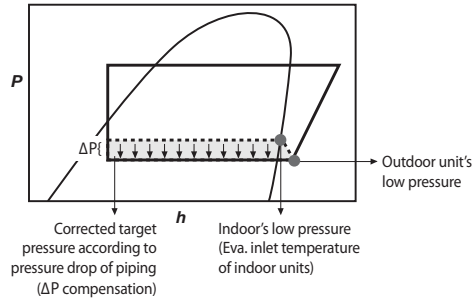
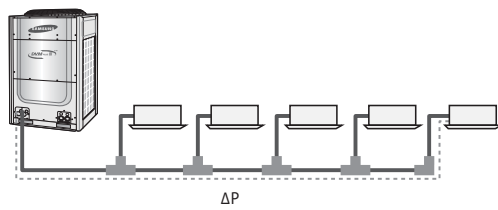
DVM PLUS III has an actual piping length of 656ft, with the maximum piping length of 147.6ft from the first branch joint to the farthest indoor unit, thereby providing convenience and flexibility for installation for commercial buildings.

- The longest piping length : 721.8ft (Equivalent)
- Total piping length: 3280.8ft
- From the first branch joint to the farthest indoor unit : 295.3ft
- Upsize all pipes between branch joints. (liquid&gas)



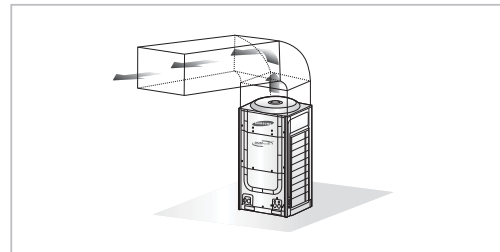
■ Automatic piping length recognition

With automatic piping length recognition, installation can be carried out without extra PCB setup.



■ High external static pressure

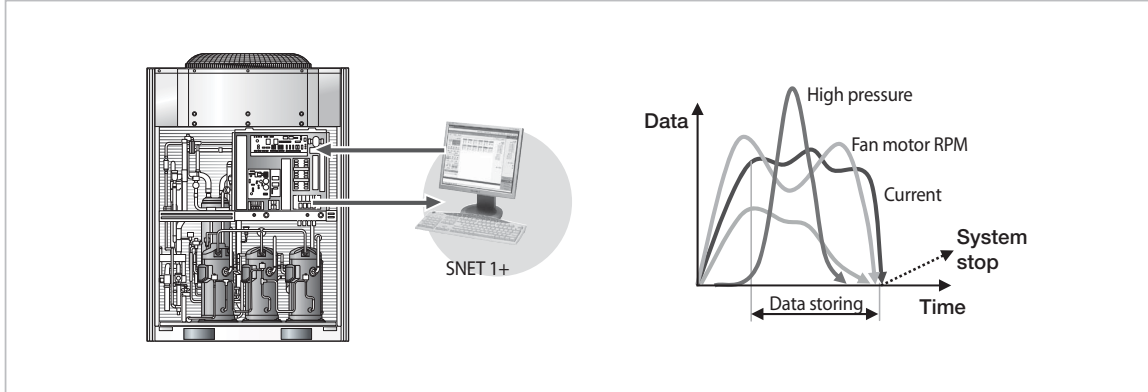
To respond to a range of various installation environments, DVM PLUS III is designed to be used even in external static pressure of 8 mmAq.



☐ **Easy Maintenance**

■ **Auto data backup in PCB**

In case of problems in product, operation information of last 20 mins is stored before system shut down. Therefore, DVM PLUS III can be diagnosed rapidly and serviced.

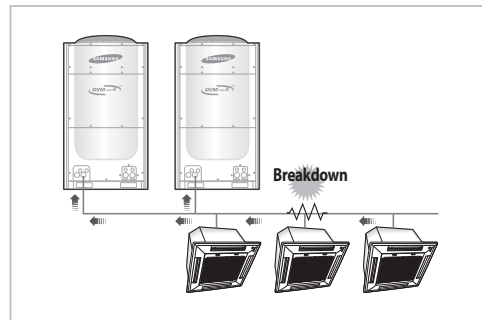


■ **Refrigerant pump-down and pump-out**

DVM PLUS III provides several functions to facilitate the replacements of product, additional installation and maintenance without much effort.

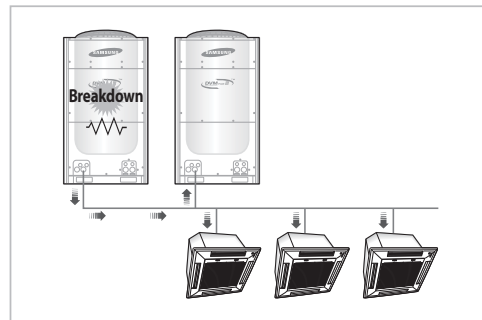
▫ **Refrigerant pump-down function**

In case of moving outdoor units, maintenance of pipes between indoor units, between outdoor units and indoor units, it is possible that recover refrigerant into outdoor units.



▫ **Refrigerant pump-out function**

In case of maintenance of outdoor units, it is possible that recover refrigerant into indoor or pipes.

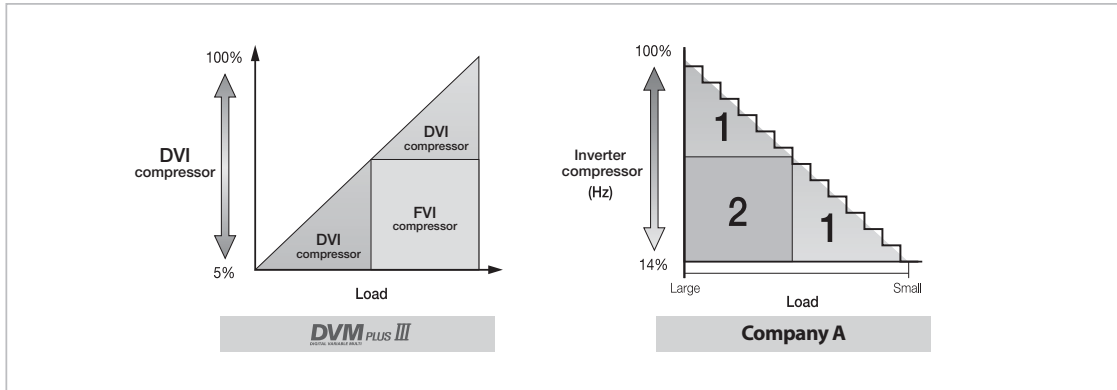


High Reliability

Optimum control and high reliability of DVI scroll compressor

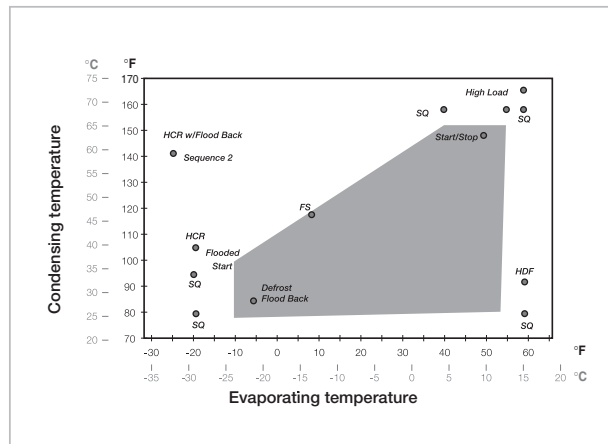
1) DVI scroll compressor

As DVM PLUS III employs a DVI scroll compressor, it can adjust not only the compressor capacity linearly in accordance with indoor loads, but at minimum load. Therefore it is superior to Inverter system in creating a pleasant indoor environment and energy saving.



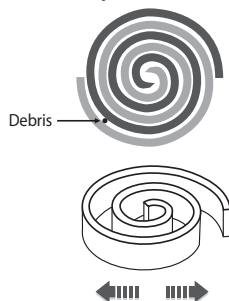
2) Dual compliances

Through rigorous tests such as High load and liquid flood back, DVI compressor is evaluated as reliable as it can operate under any conditions.

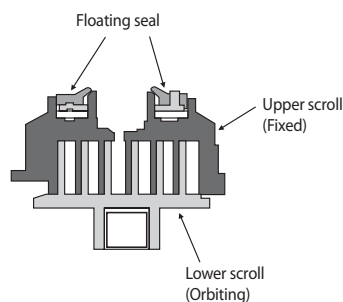


As DVI compressor is mechanically simple in structure, it has strong durability, and flexibility in radial and axial directions while being strong against debris, liquid flood back, leakage of refrigerant inside the scroll, and internal overheating. In particular, it is very strong against partial abrasion and compressor burn out by internal overheating compared with inverter compressor that employs tip seal techniques.

Radial compliance

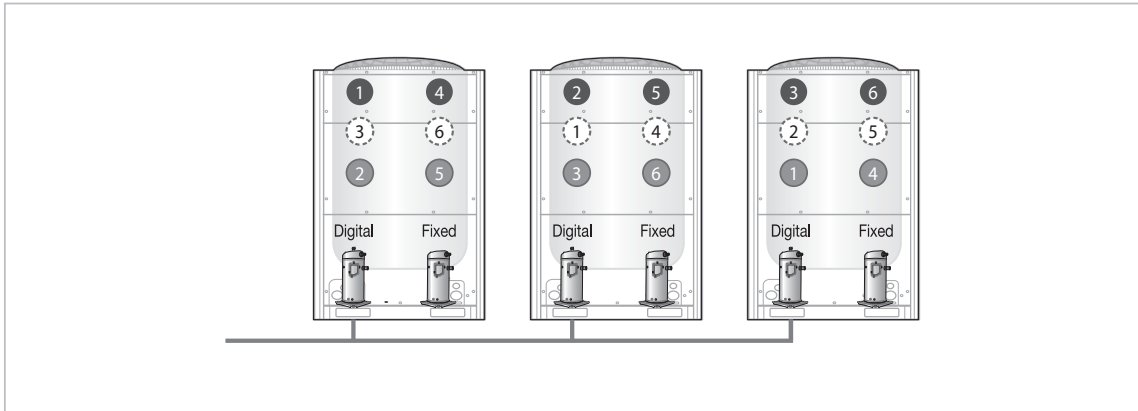


Axial compliance



■ Compressor operating pattern

Digital unit's module installation secures reliability of long life cycle with sequential activation of compressors and improves part load efficiency as it is possible to use bigger outdoor units to take care of part load.



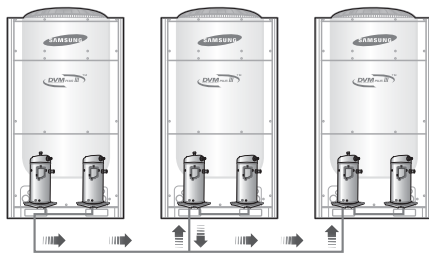
■ Oil balancing and recovery technology

In terms of oil recovery that is the most important operation in module system air conditioner's reliability, DVM PLUS III :

- Achieves continuous cooling or heating during oil recovery operation.
- Allows level difference between outdoor unit module.

↳ DVM PLUS III's oil recovery has much higher reliability as internal and external oil balancing take place simultaneously.

▸ Oil balancing

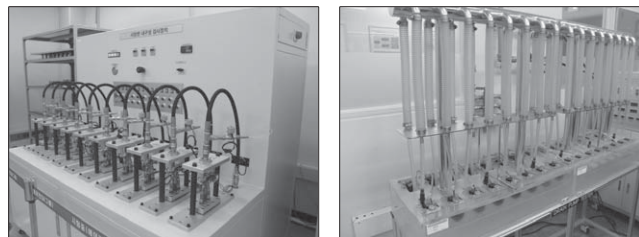


▸ Oil recovery

	DVM PLUS III <small>DIGITAL VARIABLE VALVE</small>	Company A
Oil recovery during cooling operation	Cooling operation	Cooling operation
Oil recovery during heating operation	Heating operation	Cooling operation

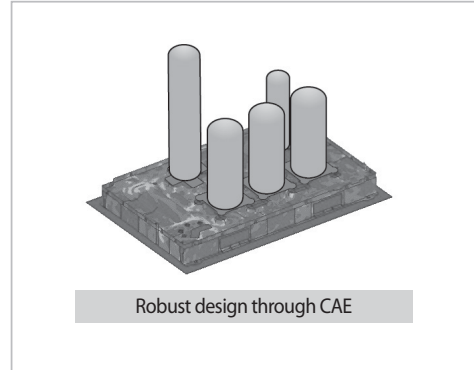
■ Acceleration life cycle test

All parts fitted to DVM PLUS III ensure reliability for life cycle through ALT (Acceleration Life cycle Test).



■ Robust design

DVM PLUS III ensures product reliability through robust design against all potential defects that can occur in the process of production, distribution and customers' usage environment.



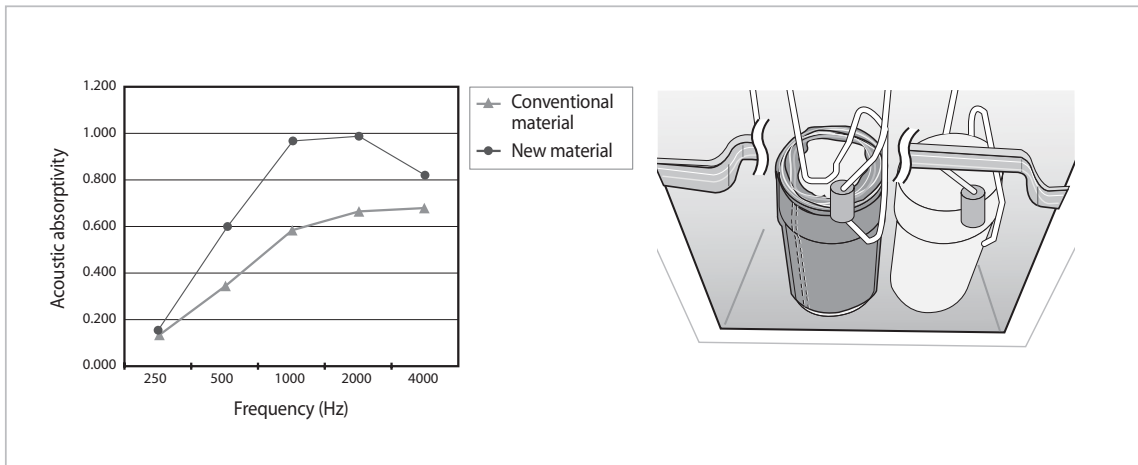
□ Sound Quality

■ Sound quality

DVM PLUS III improves the problem of noise not only at the low sound level, but also at the actual sound quality level by:

- Developing a sound insulation material for compressor
- Improving fan guard air flow
- Adopting Ø0.32 heat exchanger

↘ In particular, it enhances sound quality as it improves compressor noise by 4dB(A) by employing new material with better acoustic absorptivity.



☐ **Environment Friendly**

■ **Small refrigerant charge amount**

With consideration of environment, DVM PLUS III is less charged compared to competitor's products.

of	DVM PLUS III (10HP)	Company A (10HP)
Refrigerant volume	7.5kg(16.5lbs)	8.4kg(18.5lbs)
%	89	100

■ **Refrigerant leakage prevention**

To prevent refrigerant leakage, we provide how to diagnose any refrigerant leakage in operation. Also, changing service valves from flange type to brazed type further prevents refrigerant leakage.



■ **RoHS compliance**

RoHS restriction only applies to small or large household appliances, IT equipment, lightings, power train, toys, leisure or sports equipment, and vending machines.

Samsung expands the RoHS restriction into its entire range of products based on its own environmental policies.

■ **Lead-free**

DVM PLUS III is an environment friendly product that prevents pollution problems caused by the use of lead, by applying lead-free indoor and outdoor PCBs.



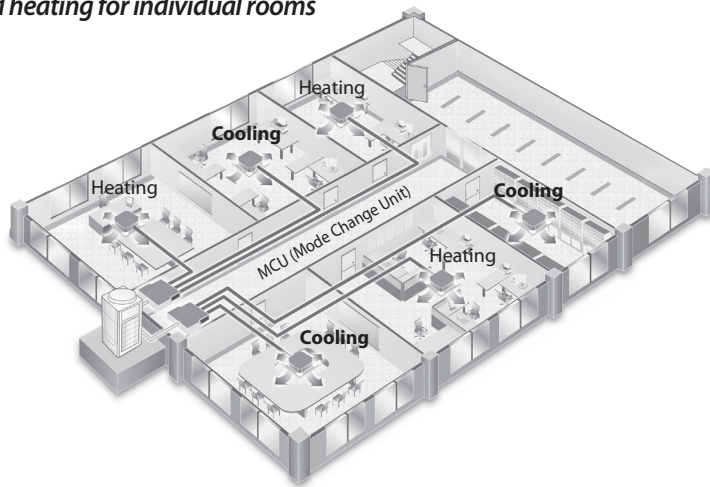
4. DVM PLUS III HR

1) Versatile application

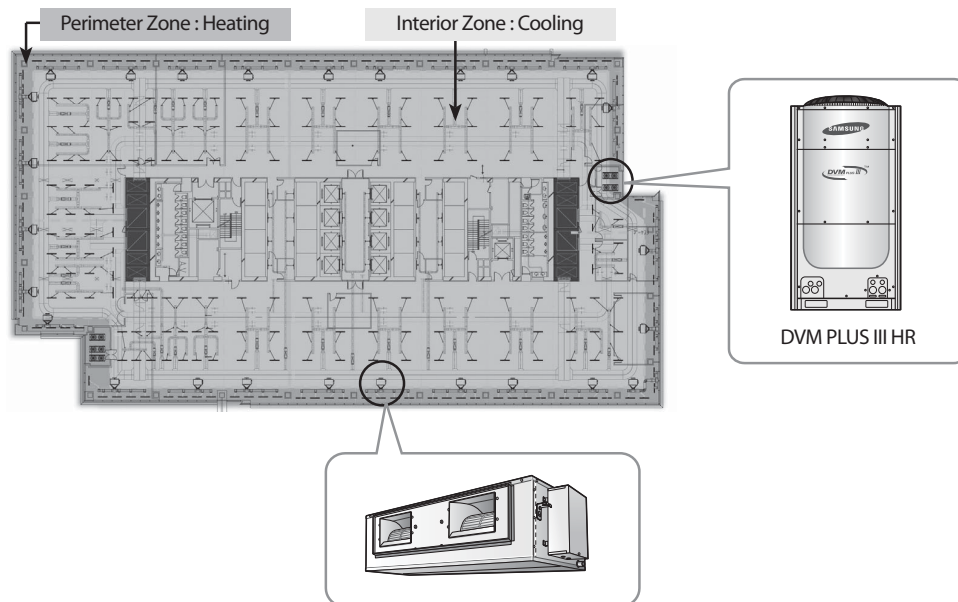
As DVM PLUS III HR allows a simultaneous cooling and heating operation with one system, the product makes it possible for a wide range of applications.

- Great for places where simultaneous cooling and heating operation is required such as hotels, nursing homes, conference rooms, etc.
- For seasonal air-conditioning which may need a simultaneous cooling and heating operation.
- In case of medium or large office, DVM PLUS III HR satisfies cooling and heating operation simultaneously for the requirements of interior and perimeter zone.

▶ Simultaneously cooling and heating for individual rooms

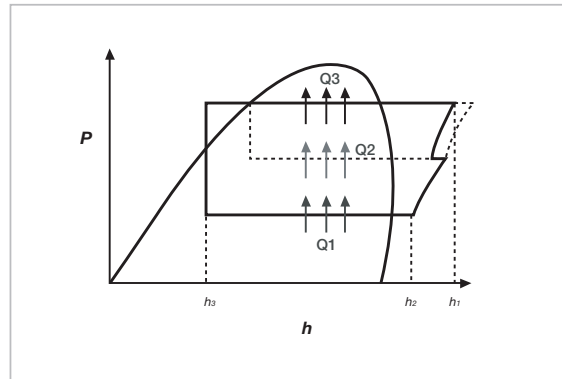


▶ Simultaneously cooling and heating for each zone



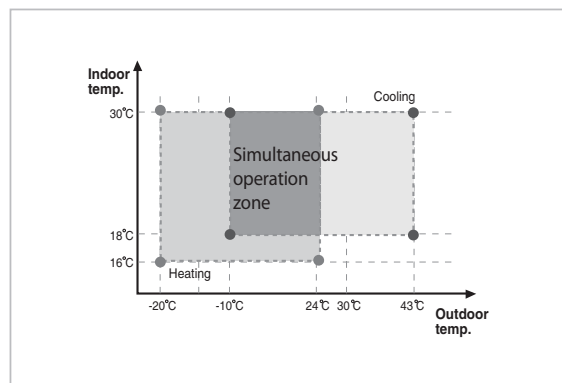
2) High COP

As DVM PLUS III HR utilizes the retrieved energy from indoor cooling operation for heating, which has a high energy efficiency and is further enhanced by our Vapor Injection technology.



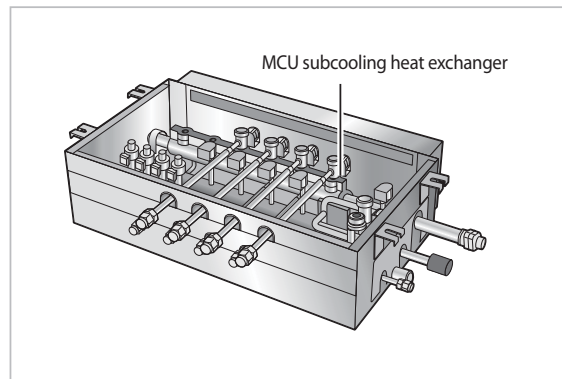
3) Wide operation range

DVM PLUS III HR can carry out a simultaneous cooling and heating operation within a wide range of temperatures.



4) New MCU

The MCU for DVM PLUS III HR has a double-tube heat exchanger for securing high subcooling effect by the MCU itself, thus improving the reliability of the long piping and cooling and heating performance.



Feature(Cont.)

2-1-1-2 RD040/050MHXCA

Summarize

Overview



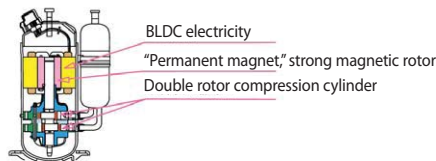
SUPER FJM is an all-in-one type product integrating the control R&D and Samsung patented compressor. The air conditioning system uses the latest single tube in parallel connection and both the indoor and outdoor machines use independent electronic expansion valves to control the amount of coolant. You can connect a maximum of nine indoor machines to one outdoor machine.

POWER SAVING

SUPER FJM considers the trend in air conditioner use. It optimizes the energy efficiency of loads ranging from partial to full. It achieves an excellent energy effect for the users of the air conditioner.

Samsung patented compressor

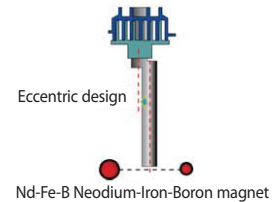
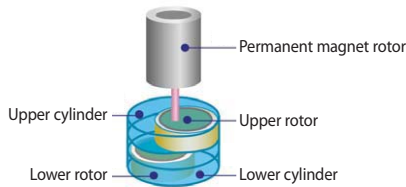
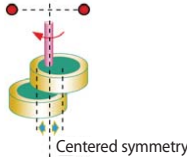
Samsung has been researching and developing compressors since the 70's. It has developed power saving compressors for more than thirty years. The **SUPER FJM** compressor adopts a double-rotor BLDC compressor with permanent magnets made by Samsung. Electricity for the compressor rotor is obtained from a neodymium-iron-boron permanent magnetic material (boron magnet can attract iron material weighing 1000 times its own weight.) It strengthens the rotary moment of the compressor to maximize the entire efficiency of the compressor.



Nd-Fe-B Neodymium-Iron-Boron magnet

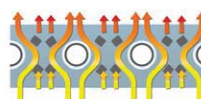
SAMSUNG's double-rotor compressor has the upper and lower rotors designed symmetrically. The double rotor in symmetry can remove vibrations caused by the eccentric design of the cylinder.

2 rotors balancing the rotary moment



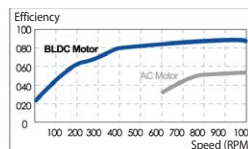
High efficiency heat exchanger

SUPER FJM uses new multiple-teeth screw pipes with a diameter of 8 mm to improve the heat exchangeability of the pipe by **30.8%**. The water-friendly aluminum foil in the heat exchanger uses the G-fin patent design to improve the efficiency of heat exchange by **13%**.



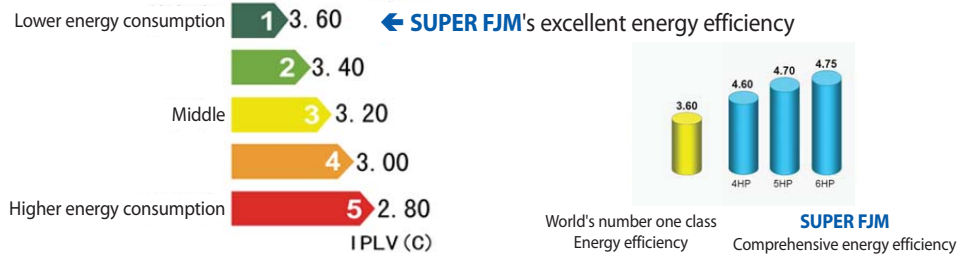
DC fan electricity

The **SUPER FJM** outdoor machine uses DC fan electricity. The rotational speed of electricity is 100 RPM to 1050 RPM with step-free control. The electrical efficiency is improved by about **33%** compared to AC electricity.



Excellent energy efficiency

All the **SUPER FJM** series is superior to class 1 energy efficiency, the power saving standard for multiple connection (heat pump) machines. Its IPLV(C), the comprehensive energy efficiency is 4.94.



FRESHNESS AND HEALTH

SUPER FJM optimizes the aspects of environment friendliness, air control, toxic material control, low temperature heaters and noise. It guarantees a refreshing and healthy environment for the user.

Environment friendliness

SUPER FJM uses the environment-friendly coolant, R410A and all of its parts are in strict compliance with the EU environment guidelines (RoHS). It controls toxic materials and prevents damage to the atmosphere. It does not spread any toxic materials indoors.



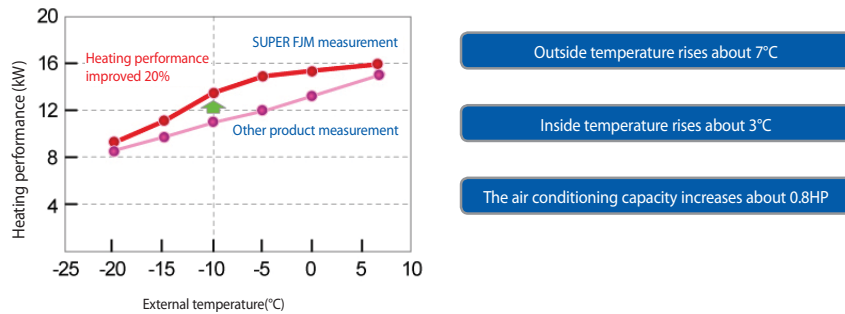
Lead, Cadmium, Hexa chromium, mercury, Brominated flame retardant, Poly brom phenyl

With smart control



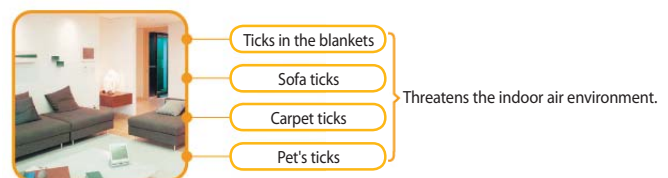
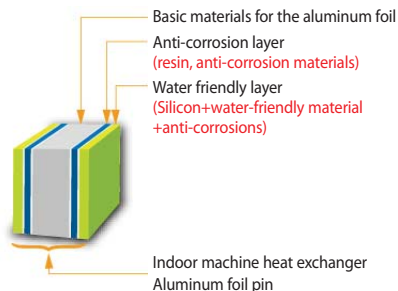
Strong heater

SUPER FJM adopts Samsung's high performance double-rotor compressor. Compared to other products, its heating effect at -10°C is about 20% higher.



Deep level anti-bacteria

All of the **SUPER FJM** indoor heat exchanger aluminum foil is processed with special anti-bacteria paint to prevent the growth of bacteria in the humid inner area of the air conditioner and maintain clean indoor air.



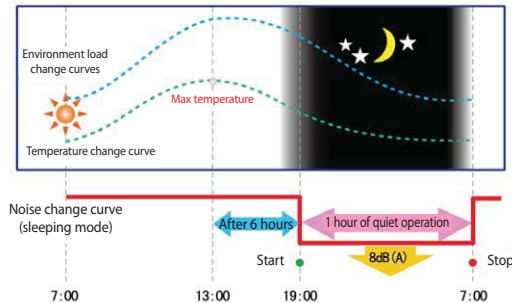
Quiet operation of the indoor machine

SUPER FJM's indoor machine has a minimum noise level of 21 decibels. Even in the late, quiet night, you can hardly hear any noise.



Quiet night

SUPER FJM's outdoor machine can be set to quiet nighttime operation mode. The outdoor machine executes quiet operation (sleeping mode) after six hours. After 12 hours, it returns to the previous mode automatically.

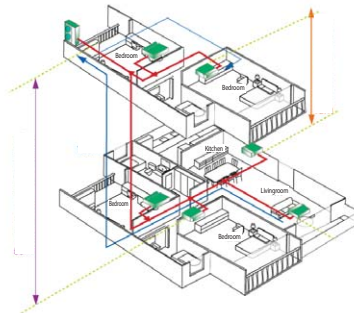


SIMPLE DESIGN AND INSTALLATION

The **SUPER FJM** design supports simple installation. The outdoor and indoor machines use a copper pipe and a branch pipe string in parallel connection. They are provided with electricity independently.

Long pipe

The **SUPER FJM** indoor/outdoor machine's pipe length is a max. of 70 meters. The max. drop height between the indoor and the outdoor machines is 30 meters. (If the outdoor machine is located below the indoor machine, it is 25 meters). The max. pipe length after installation of the first branch pipe is 40 meters.



(Caution: The max. pipe length for the 3HP model is 45 meters. The max. indoor/outdoor drop height is 15 meters and the max. drop heights between the indoor machines is 7.5 meters. The max. pipe length after installation of the first branch pipe is 30 meters.)

Limitations of the operational current classes

SUPER FJM's indoor/outdoor machine control circuit board uses four types of current limits mode. It can be efficiently installed in an area with a shortage of electrical stability. If it is to be remodeled for an old building that does not meet the electricity capacity standard, first install an air conditioner for testing. Then set the current after expanding the electricity capacity.

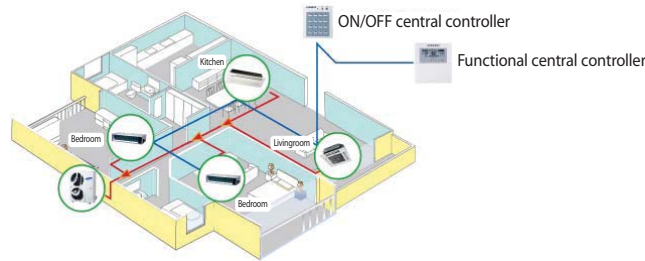
Current limit mode	DIP button	DIP button
Mode 1	ON	ON
Mode 2	ON	OFF
Mode 3	OFF	ON
Mode 4	OFF	OFF

The diagram shows two DIP switches. The first switch is in the 'ON' position (up), and the second switch is in the 'OFF' position (down). A dashed red box highlights the second switch.

PROHIBITION **SUPER FJM** with smart control uses the smart network control method for management and support simple controls.

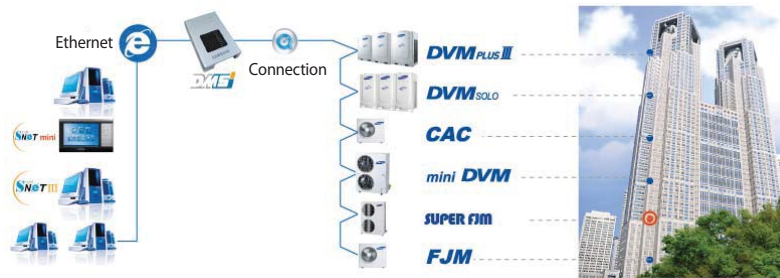
Independent smart central control

Independent controllers are installed in each indoor machine of **SUPER FJM**. Using the central controller, it can control all the indoor machines at home. When leaving home, use the central controller installed in the living room to turn off all the air conditioners. You can prevent unnecessary power consumption caused by the air conditioner running with no one at home.



Smart group control for multiple households

SUPER FJM supports group controls in conjunction with Samsung's other commercial air conditioners. It achieves a wide range of smart control including individual metering for each household, computer monitoring and network monitoring.



SPEEDY TROUBLESHOOTING **SUPER FJM** is designed to perform perfect smart self diagnosis functions that support speedy troubleshooting.

Self diagnosis of malfunctions

The **SUPER FJM** indoor/outdoor machines has an LED monitor where you can quickly diagnose the operational variables and repair them



Malfunction codes

Codes	Causes for malfunction
E101	Communication failures between the indoor machine and the outdoor machine
E460	Bad power connection between the indoor and the outdoor machines
E467	Bad operation of the compressor
E466	Inadequate voltage supply

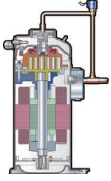





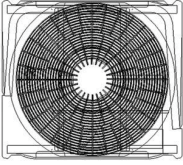
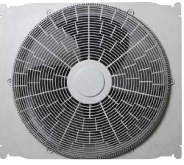






Auto recovery of the coolant

SUPER FJM is designed to support the saving function that recovers the coolant automatically for the user. Depending on which outdoor or indoor machine is being repaired, it decides which machine to recover the coolant from. This way, the amount of coolant can be saved.




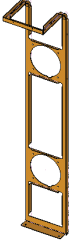





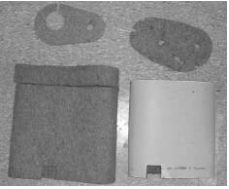


2-1-2 Changes in comparison to basic model

■ RVXVHT075/100/125FE, RD075/100/125VHXFA, RD075/100/125VRXFA

Changed part	Changed item and feature	Basic	After changed
Compressor	DVI compressor Efficient and reliable DVI(Digital Vapor Injection) compressor coupled with Vapor Injection technology has been applied to improve cooling and heating performance and energy efficiency.		
Intercooler	Turbo intercooler (Shell & Tube type) improves cooling and heating COP and secures reliable operation of installation with long piping (200m).		
Heat Exchanger	New G-Fin Highly efficient new G-Fin increased heat transfer performance, reinforced corrosion resistance, and increased operating duration in frost condition.		
Fan Guard	Fan Guard has been optimized to improve air volume and reduce noise and vibration.		
Service Valve	Ball type service valve applied → easy to operate		
MAIN PCB	Expanded MICOM capacity, improved serviceability		
SUB PCB	Redesigned Power circuit, improved assembly		

■ RD040/050MHXCA

Changed part	Changed item and feature	Basic	After changed
Guard Fan	Guard Fan P/D → M/D Changed(New Mold) Improved trouble caused by rust development and reduced noise by increasing air volume		
Motor Bracket	Secured larger opening for improved air flow		
Compressor	Digital Scroll → Twin BLDC Inverter		
Control			
Felt	Double layerd felt reduces noise from compressor		

2-2 Product Specifications

2-2-1 Indoor Unit

■ Slim 1 way cassette type

Model			AVXCSH023CE/ND0231HXCA	AVXCSH032CE / ND0321HXCA	AVXCSH040CE/ND0401HXCA	
Power Supply		ØV,Hz	1,208~230,60	1,208~230,60	1,208~230,60	
Mode *1)			HP / HR	HP / HR	HP / HR	
Performance	Capacity	Cooling *2)	kW	2.3	3.2	4.0
			Btu/h	7,500	9,500	12,000
	Heating *3)	kW	2.6	3.6	4.5	
		Btu/h	8,500	10,500	13,500	
Condensate (with High fan speed)		ℓ/h	-	-	-	
Power	Input Consumption (Cooling/Heating)		W	40/40	45/45	50/50
	Running Current (Cooling/Heating)		A	0.2/0.2	0.23/0.23	0.25/0.25
Noise Level	Actual Noise Pressure (High) *4)		dB(A)	34	37	40
Fan	Type		-	Cross flow fan	Cross flow fan	Cross flow fan
	Motor	Model	-	SFN-220-20-4B-1	SFN-220-20-4B-1	SFN-220-20-4B-1
		Type	-	Non Feedback SSR	Non Feedback SSR	Non Feedback SSR
		Output	W	20	20	20
Fan Speed	The progress of work(H/M/L)		rpm	-	-	-
	Cooling (H/M/L)		rpm	930/860/790	1,035/913/790	1,245/1,105/965
	Heating (H/M/L)		rpm	1,035/965/895	1,140/1,018/895	1,245/1,105/965
Airflow Rate	Cooling (High)		m ³ /min	6.0	7.0	8.0
	Heating (High)		m ³ /min	7.0	8.0	9.0
	Cooling (High)		CFM	212	247	283
	Heating (High)		CFM	247	283	318
	External Static Pressure	Standard(Min.-Max)	mmH2O	-	-	-
Standard(Min.-Max)		WG	-	-	-	
Refrigerant	Type		-	R410a	R410a	R410a
	Control Method		-	EEV	EEV	EEV
Temperature Control		-	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	
Safety Devices		-	Fuse	Fuse	Fuse	
Option Code	AVXCSH***CE		-	078605-1260C8 200001-300000	078605-1460F8 200001-300000	075605-16625D 200001-300000
	ND***1HXCA		-	078605-1260C8 200000-300000	078605-1460F8 200000-300000	075605-16625D 200000-300000
Piping Connections	Liquid (Flare)	Ø,mm	6.35	6.35	6.35	
		Ø,inch	1/4"	1/4"	1/4"	
	Gas (Flare)	Ø,mm	12.70	12.70	12.70	
		Ø,inch	1/2"	1/2"	1/2"	
	Drain (Quick Lock)	Ø,mm	ID 18 hose	ID 18 hose	ID 18 hose	
Ø,inch		-	-	-		
Weight	Net Weight	kg	10.5	10.5	10.5	
		lbs	23.0	23.0	23.0	
	Shipping Weight	kg	13.5	13.5	13.5	
		lbs	30.0	30.0	30.0	
Dimensions	Net Dimensions (WxHxD)	mm	970x135x410	970x135x410	970x135x410	
		inch	38.2x5.3x16.1	38.2x5.3x16.1	38.2x5.3x16.1	
	Shipping Dimensions (WxHxD)	mm	1,164x212x478	1,164x212x478	1,164x212x478	
		inch	45.8x8.3x18.8	45.8x8.3x18.8	45.8x8.3x18.8	
Panel Size	Model		-	PSSMA	PSSMA	PSSMA
	Net Weight	kg	3.0	3.0	3.0	
		lbs	6.6	6.6	6.6	
	Shipping Weight	kg	5.0	5.0	5.0	
		lbs	11.0	11.0	11.0	
	Net Dimensions (WxHxD)	mm	1,180x25x460	1,180x25x460	1,180x25x460	
		inch	46.5x1.0x18.1	46.5x1.0x18.1	46.5x1.0x18.1	
	Shipping Dimensions (WxHxD)	mm	1,259x144x539	1,259x144x539	1,259x144x539	
inch		49.6x5.7x21.2	49.6x5.7x21.2	49.6x5.7x21.2		

Indoor Unit(cont.)**Slim 1 way cassette type(cont.)**

Model			AVXCMH032CE/ND032MHXCA	AVXCMH040CE/ND040MHXCA	AVXCMH052CE/ND052MHXCA
Functions	Auto Restart	-	O	O	O
	Auto Swing	-	O	O	O
	Group/Individual Control	-	O	O	O
	External Contact Control	-	O	O	O
	Trouble Shooting by LED	-	O	O	O
Standard Accessories	Installation Manual	-	O	O	O
	Operation Manual	-	X	X	X
	Pattern Sheet for Installation	-	O	O	O
	Flexible Drain Hose	-	O	O	O
	Filter / Safety Grille	-	Filter / Safety Grille	Filter / Safety Grille	Filter / Safety Grille
	Drain Pump (Pumping speed, lift)	ℓ/h,mm	24, 750	24, 750	24, 750
Optional Accessories	Wireless Remote Controller	AVXCSH***CE	MR-BH01U	MR-BH01U	MR-BH01U
		ND***1HXCA	MR-BH01	MR-BH01	MR-BH01
	Wired Remote Controller	Simplified	MWR-SH00	MWR-SH00	MWR-SH00
		Multi Function	MWR-WE00	MWR-WE00	MWR-WE00
		Premium	MWR-WS01	MWR-WS01	MWR-WS01
	External Contact Interface Module	-	MIM-B14	MIM-B14	MIM-B14



*1) Mode

- HP : Heat Pump

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

Indoor Unit(cont.)

■ Mini 4 way cassette type

Model			AVXCMH032CE/ ND032MHXCA	AVXCMH040CE/ ND040MHXCA	AVXCMH052CE/ ND052MHXCA	AVXCMH060CE/ ND060MHXCA	
Power Supply		Ø,V,Hz	1,208~230,60	1,208~230,60	1,208~230,60	1,208~230,60	
Mode *1)			HP / HR	HP / HR	HP / HR	HP / HR	
Performance	Capacity	Cooling *2)	kW	3.2	4.0	5.2	6.0
			Btu/h	9,500	12,000	18,000	20,000
	Heating *3)	kW	3.6	4.5	6.0	6.8	
		Btu/h	10,500	13,500	20,000	23,000	
Condensate (with High fan speed)		ℓ/h	-	-	-	-	
Power	Input Consumption (Cooling/Heating)		W	110 / 110	110 / 110	110 / 110	
	Running Current (Cooling/Heating)		A	0.47 / 0.47	0.47 / 0.47	0.47 / 0.47	0.50 / 0.50
Noise Level	Actual Noise Pressure (High) *4)		dB(A)	46 / 46	46 / 46	47 / 47	48 / 48
Fan	Type		-	Turbo Fan (Ø320)	Turbo Fan (Ø320)	Turbo Fan (Ø320)	Turbo Fan (Ø320)
	Motor	Model	-	ASS035ZTEJ	ASS035ZTEJ	ASS035ZTEJ	ASS035ZTEJ
		Type	-	Non Feedback SSR	Non Feedback SSR	Non Feedback SSR	Non Feedback SSR
		Output	W	55 *5)	55 *5)	55 *5)	55 *5)
Fan Speed	The progress of work(H/M/L)		rpm	745/690/620	745/690/620	760/700/630	820/700/600
	Cooling (H/M/L)			745/690/620	745/690/620	760/700/631	820/700/601
	Heating (H/M/L)			745/690/620	745/690/620	760/700/632	820/700/602
Airflow Rate	Cooling (High)		m ³ /min	11.0	11.0	13.5	14.5
	Heating (High)			12.0	12.0	14.5	15.5
	Cooling (High)		CFM	388	388	477	512
	Heating (High)			424	424	512	547
	External Static Pressure	Standard(Min.~Max)	mmH2O	-	-	-	-
WG			-	-	-	-	
Refrigerant	Type		-	R410a	R410a	R410a	R410a
	Control Method		-	EEV	EEV	EEV	EEV
Temperature Control		-	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	
Safety Devices		-	Fuse	Fuse	Fuse	Fuse	
Option Code	AVXCMH***CE		-	045224-1540B3 -200000-300000	045224-1840B3 -200001-300000	045224-1B40B3 -200001-300000	045224-1C40F1 -200001-300000
	ND***MHXCA		-				
Piping Connections	Liquid (Flare)	Ø,mm	6.35	6.35	6.35	6.35	
		Ø,inch	1/4"	1/4"	1/4"	1/4"	
	Gas (Flare)	Ø,mm	12.70	12.70	12.70	12.70	
		Ø,inch	1/2"	1/2"	1/2"	1/2"	
	Drain (Quick Lock)	Ø,mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	
		Ø,inch	VP25 (OD 1 1/4", ID 1")	VP25 (OD 1 1/4", ID 1")	VP25 (OD 1 1/4", ID 1")	VP25 (OD 1 1/4", ID 1")	
Weight	Net Weight	kg	17.0	17.0	17.0	17.0	
		lbs	37.5	37.5	37.5	37.5	
	Shipping Weight	kg	20.0	20.0	20.0	20.0	
		lbs	44.1	44.1	44.1	44.1	
Dimensions	Net Dimensions (WxHxD)	mm	575x260x575	575x260x575	575x260x575	575x260x575	
		inch	22.6x10.2x22.6	22.6x10.2x22.6	22.6x10.2x22.6	22.6x10.2x22.6	
	Shipping Dimensions (WxHxD)	mm	660x310x635	660x310x635	660x310x635	660x310x635	
		inch	26x12.2x25	26x12.2x25	26x12.2x25	26x12.2x25	
Panel Size	Model		-	PMSMAA	PMSMAA	PMSMAA	PMSMAA
	Net Weight	kg	3.5	3.5	3.5	3.5	
		lbs	7.7	7.7	7.7	7.7	
	Shipping Weight	kg	6.2	6.2	6.2	6.2	
		lbs	13.7	13.7	13.7	13.7	
	Net Dimensions (WxHxD)	mm	670x35x670	670x35x670	670x35x670	670x35x670	
		inch	26.3x1.4x26.3	26.3x1.4x26.3	26.3x1.4x26.3	26.3x1.4x26.3	
	Shipping Dimensions (WxHxD)	mm	717x93x717	717x93x717	717x93x717	717x93x717	
inch		28.2x3.7x28.2	28.2x3.7x28.2	28.2x3.7x28.2	28.2x3.7x28.2		

Indoor Unit(cont.)

Mini 4 way cassette type(cont.)

Model			AVXCMH032CE/ ND032MHXCA	AVXCMH040CE/ ND040MHXCA	AVXCMH052CE/ ND052MHXCA	AVXCMH060CE/ ND060MHXCA	
Functions	Auto Restart	-	O	O	O	O	
	Auto Swing	-	O	O	O	O	
	Group/Individual Control	-	O	O	O	O	
	External Contact Control	-	O	O	O	O	
	Trouble Shooting by LED	-	O	O	O	O	
Standard Accessories	Installation Manual	-	O	O	O	O	
	Operation Manual	-	X	X	X	X	
	Pattern Sheet for Installation	-	O	O	O	O	
	Flexible Drain Hose	-	O	O	O	O	
	Filter / Safety Grille	-	Filter / Safety Grille	Filter / Safety Grille	Filter / Safety Grille	Filter / Safety Grille	
Drain Pump (Pumping speed, lift)	ℓ/h,mm	24, 750	24, 750	24, 750	24, 750		
Optional Accessories	Wireless Remote Controller	AVXCMH***CE	-	MR-BH01U	MR-BH01U	MR-BH01U	MR-BH01U
		ND***MHXCA	-	MR-BH01	MR-BH01	MR-BH01	MR-BH01
	Wired Remote Controller	Simplified	-	MWR-SH00	MWR-SH00	MWR-SH00	MWR-SH00
		Multi Function	-	MWR-WE00	MWR-WE00	MWR-WE00	MWR-WE00
		Premium	-	MWR-WS01	MWR-WS01	MWR-WS01	MWR-WS01
	External Contact Interface Module	-	MIM-B14	MIM-B14	MIM-B14	MIM-B14	



*1) Mode

- HP : Heat Pump

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

Indoor Unit(cont.)

■ 4 way cassette type

Model			AVXC4H052CE/ ND0524HXCA	AVXC4H072CE/ ND0724HXCA	AVXC4H100CE/ ND1004HXCA	AVXC4H110CE/ ND1104HXCA	AVXC4H145CE/ ND1454HXCA	
Power Supply			Ø,V,Hz		1,208~230,60	1,208~230,60	1,208~230,60	1,208~230,60
Mode *1)			HP / HR		HP / HR	HP / HR	HP / HR	HP / HR
Performance	Capacity	Cooling *2)	kW	5.2	7.2	10.0	11.0	14.5
			Btu/h	18,000	24,000	30,000	36,000	48,000
	Heating *3)	kW	6.0	8.1	11.0	12.8	16.3	
		Btu/h	20,000	27,000	34,000	40,000	54,000	
Condensate (with High fan speed)		ℓ/h	2.71	3.51	5.58	5.58	7.18	
Power	Input Consumption (Cooling/Heating)		W	40 / 40	45 / 45	50 / 50	50 / 50	80 / 80
	Running Current (Cooling/Heating)		A	0.19 / 0.19	0.21 / 0.21	0.23 / 0.23	0.23 / 0.23	0.36 / 0.36
Noise Level	Actual Noise Pressure (High) *4)		dB(A)	43 / 44	43 / 44	46 / 46	46 / 46	51 / 52
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor	Model	-	SIC-67FV-F135-1	SIC-67FV-F135-1	SPG DL-95835SSIA	SPG DL-95835SSIA	SPG DL-95835SSIA
		Type	-	BLDC	BLDC	BLDC	BLDC	BLDC
		Output	W	-	-	-	-	-
Fan Speed	The progress of work(H/M/L)		rpm	-	-	-	-	-
	Cooling (H/M/L)			440/400/360	500/440/380	520/470/420	560/520/480	600/560/520
	Heating (H/M/L)			400/360/320	460/400/340	520/470/420	560/520/480	640/600/560
Airflow Rate	Cooling (High)		m ³ /min	14.5	17.0	23.0	25.0	26.5
	Heating (High)			16.5	18.5	26.5	29.5	32.0
	Cooling (High)		CFM	512	600	812	883	936
	Heating (High)			583	653	936	1,042	1,130
	External Static Pressure	Standard(Min.~Max)	mmH2O	-	-	-	-	-
			WG	-	-	-	-	-
Refrigerant	Type		-	R410a	R410a	R410a	R410a	R410a
	Control Method		-	EEV	EEV	EEV	EEV	EEV
Temperature Control			-	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors
Safety Devices			-	Fuse	Fuse	Fuse	Fuse	Fuse
Option Code	AVXC4H***CE		-	043217-1B00C8 200001-300000	043217-1D00F9 200001-300000	045A17-10020B 200001-300000	045A17-12022E 200001-300000	047A17-130340 200001-300000
	ND***4HXCA		-	043217-1B00C8 200000-300000	043217-1D00F9 200000-300000	045A17-10020B 200000-300000	045A17-12022E 200000-300000	047A17-130340 200000-300000
Piping Connections	Liquid (Flare)	Ø,mm	6.35	9.52	9.52	9.52	9.52	
		Ø,inch	1/4"	3/8"	3/8"	3/8"	3/8"	
	Gas (Flare)	Ø,mm	12.70	15.88	15.88	15.88	15.88	
		Ø,inch	1/2"	5/8"	5/8"	5/8"	5/8"	
	Drain (Quick Lock)	Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
		Ø,inch	VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")	
Weight	Net Weight	kg	25.0	25.0	29.0	29.0	29.0	
		lbs	55.1	55.1	63.9	63.9	63.9	
	Shipping Weight	kg	31.0	31.0	35.0	35.0	35.0	
		lbs	68.3	68.3	77.2	77.2	77.2	
Dimensions	Net Dimensions (W×H×D)	mm	840×218×840	840×218×840	840×298×840	840×298×840	840×298×840	
		inch	33.1×8.6×33.1	33.1×8.6×33.1	33.1×11.7×33.1	33.1×11.7×33.1	33.1×11.7×33.1	
	Shipping Dimensions (W×H×D)	mm	925×280×925	925×280×925	925×360×925	925×360×925	925×360×925	
		inch	36.4×11×36.4	36.4×11×36.4	36.4×14.2×36.4	36.4×14.2×36.4	36.4×14.2×36.4	
Panel Size	Model		-	P4SMA	P4SMA	P4SMA	P4SMA	P4SMA
	Net Weight	kg	7.0	7.0	7.0	7.0	7.0	
		lbs	-	-	-	-	-	
	Shipping Weight	kg	10.3	10.3	10.3	10.3	10.3	
		lbs	-	-	-	-	-	
	Net Dimensions (W×H×D)	mm	950×35×950	950×35×950	950×35×950	950×35×950	950×35×950	
		inch	37.4×1.4×37.4	37.4×1.4×37.4	37.4×1.4×37.4	37.4×1.4×37.4	37.4×1.4×37.4	
	Shipping Dimensions (W×H×D)	mm	1,042×103×1,042	1,042×103×1,042	1,042×103×1,042	1,042×103×1,042	1,042×103×1,042	
inch		41×4.1×41	41×4.1×41	41×4.1×41	41×4.1×41	41×4.1×41		

Indoor Unit(cont.)**4 way cassette type(cont.)**

Model			AVXC4H052CE/ ND0524HXCA	AVXC4H072CE/ ND0724HXCA	AVXC4H100CE/ ND1004HXCA	AVXC4H110CE/ ND1104HXCA	AVXC4H145CE/ ND1454HXCA
Functions	Auto Restart	-	O	O	O	O	O
	Auto Swing	-	O	O	O	O	O
	Group/Individual Control	-	O	O	O	O	O
	External Contact Control	-	O	O	O	O	O
	Trouble Shooting by LED	-	O	O	O	O	O
Standard Accessories	Installation Manual	-	O	O	O	O	O
	Operation Manual	-	X	X	X	X	X
	Pattern Sheet for Installation	-	O	O	O	O	O
	Flexible Drain Hose	-	O	O	O	O	O
	Filter / Safety Grille	-	Filter / Safety Grille	Filter / Safety Grille	Filter / Safety Grille	Filter / Safety Grille	Filter / Safety Grille
	Drain Pump (Pumping speed, lift)	ℓ/h,mm	24, 750	24, 750	24, 750	24, 750	24, 750
Optional Accessories	Wireless Remote Controller	AVXC4H***CE	-	MR-BH01U	MR-BH01U	MR-BH01U	MR-BH01U
		ND***4HXCA	-	MR-BH01	MR-BH01	MR-BH01	MR-BH01
	Wired Remote Controller	Simplified	-	MWR-SH00	MWR-SH00	MWR-SH00	MWR-SH00
		Multi Function	-	MWR-WE00	MWR-WE00	MWR-WE00	MWR-WE00
		Premium	-	MWR-WS01	MWR-WS01	MWR-WS01	MWR-WS01
	External Contact Interface Module	-	MIM-B14	MIM-B14	MIM-B14	MIM-B14	MIM-B14



*1) Mode

- HP : Heat Pump

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

Indoor Unit(cont.)

■ Global 4 way cassette

Model			ND0524HXC	ND0724HXC	ND1004HXC	ND1104HXC	ND1454HXC	
Power Supply			Ø,V/Hz	1,208~230,60	1,208~230,60	1,208~230,60	1,208~230,60	
Mode *1)				HP / HR	HP / HR	HP / HR	HP / HR	
Performance	Capacity	Cooling *2)	kW	5.2	7.2	10.0	11.0	14.5
			Btu/h	18,000	24,000	30,000	36,000	48,000
		Heating *3)	kW	6.0	8.1	11.0	12.8	16.3
			Btu/h	20,000	27,000	34,000	40,000	54,000
Condensate (with High fan speed)			ℓ/h	-	-	-	-	
Power	Input Consumption (Cooling/Heating)		W	32/32	40/40	32/32	69/69	89/89
	Running Current (Cooling/Heating)		A	0.15/0.15	0.20/0.20	0.15/0.15	0.33/0.33	0.45/0.45
Noise Level	Actual Noise Pressure (High) *4)		dB(A)	42/44	43 / 44	48/49	49/49	53/53
Fan	Type		-	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan	Turbo Fan
	Motor	Model	-	FMC6531SSH	FMC6531SSH	FMC6531SSH	FMC6531SSF	DAI33585ZLB
		Type	-	BLDC	BLDC	BLDC	BLDC	BLDC
		Output	W	-	-	-	-	-
Fan Speed	The progress of work(H/M/L)		rpm	-	-	-	-	-
	Cooling (H/M/L)		rpm	360/320/300	440/390/340	540/460/380	540/480/420	600/550/500
	Heating (H/M/L)		rpm	340/300/280	440/390/340	540/460/380	540/480/420	600/550/500
Airflow Rate	Cooling (High)		m ³ /min	15.5	17.5	19.5	24.0	29.0
	Heating (High)		m ³ /min	17.5	19.5	22.0	28.0	33.0
	Cooling (High)		CFM	547	618	689	848	1,024
	Heating (High)		CFM	618	689	777	989	1,165
	External Static Pressure	Standard(Min.-Max)	mmH2O	-	-	-	-	-
		Standard(Min.-Max)	WG	-	-	-	-	-
Refrigerant	Type		-	R410a	R410a	R410a	R410a	R410a
	Control Method		-	EEV	EEV	EEV	EEV	EEV
Temperature Control			-	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors
Safety Devices			-	Fuse	Fuse	Fuse	Fuse	Fuse
Option Code	AVXC4H***CE	-	01407F 156097 233434 300008 020010 100000 200000 300000 030000 100000 200000 300000	01407F 1560C7 234848 300008 020010 100000 200000 300000 030000 100000 200000 300000	01407F 156219 236464 300008 020010 100000 200000 300000 030000 100000 200000 300000	01407F 15621B 236E6E 300028 020010 100000 200000 300000 030000 100000 200000 300000	01407F 15624F 239191 300048 020010 100000 200000 300000 030000 100000 200000 300000	
		Liquid (Flare)	Ø,mm	6.35	9.52	9.52	9.52	9.52
			Ø,inch	1/4"	3/8"	3/8"	3/8"	3/8"
		Gas (Flare)	Ø,mm	12.70	15.88	15.88	15.88	15.88
			Ø,inch	1/2"	5/8"	5/8"	5/8"	5/8"
		Drain (Quick Lock)	Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)
Ø,inch	VP25 (OD 1 1/4",ID 1")		VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")		
Weight	Net Weight	kg	15.5	15.5	15.5	17.0	19.0	
		lbs	34.2	34.2	34.2	37.5	41.9	
	Shipping Weight	kg	19.5	19.5	19.5	22.0	24.0	
		lbs	43	43	43	48.5	52.9	
Dimensions	Net Dimensions (WxHxD)	mm	840x204x840	840x204x840	840x204x840	840x246x840	840x288x840	
		inch	33.1x8.0x33.1	33.1x8.0x33.1	33.1x8.0x33.1	33.1x9.7x33.1	33.1x11.3x33.1	
	Shipping Dimensions (WxHxD)	mm	898x275x898	898x275x898	898x275x898	898x316x898	898x357x898	
		inch	35.4x10.8x35.4	35.4x10.8x35.4	35.4x10.8x35.4	35.4x12.4x35.4	35.4x14.0x35.4	
Panel Size	Model		-	PC4NUSKA	PC4NUSKA	PC4NUSKA	PC4NUSKA	PC4NUSKA
	Net Weight	kg	6.7	6.7	6.7	6.7	6.7	
		lbs	-	-	-	-	-	
	Shipping Weight	kg	8.9	8.9	8.9	8.9	8.9	
		lbs	-	-	-	-	-	
	Net Dimensions (WxHxD)	mm	950x30x950	950x30x950	950x30x950	950x30x950	950x30x950	
		inch	37.4x1.2x37.4	37.4x1.2x37.4	37.4x1.2x37.4	37.4x1.2x37.4	37.4x1.2x37.4	
	Shipping Dimensions (WxHxD)	mm	1,042x93x1,042	1,042x93x1,042	1,042x93x1,042	1,042x93x1,042	1,042x93x1,042	
inch		41.0x3.7x41.0	41.0x3.7x41.0	41.0x3.7x41.0	41.0x3.7x41.0	41.0x3.7x41.0		

Indoor Unit(cont.)**Global 4 way cassette(cont.)**

Model			ND0524HXCB	ND0724HXCB	ND1004HXCB	ND1104HXCB	ND1454HXCB	
Functions	Auto Restart	-	O	O	O	O	O	
	Auto Swing	-	O	O	O	O	O	
	Group/Individual Control	-	O	O	O	O	O	
	External Contact Control	-	O	O	O	O	O	
	Trouble Shooting by LED	-	O	O	O	O	O	
Standard Accessories	Installation Manual	-	O	O	O	O	O	
	Operation Manual	-	X	X	X	X	X	
	Pattern Sheet for Installation	-	O	O	O	O	O	
	Flexible Drain Hose	-	O	O	O	O	O	
	Filter / Safety Grille	-	Filter / Safety Grille	Filter / Safety Grille	Filter / Safety Grille	Filter / Safety Grille	Filter / Safety Grille	
Drain Pump (Pumping speed, lift)	ℓ/h,mm	24, 750	24, 750	24, 750	24, 750	24, 750		
Optional Accessories	Wireless Remote Controller	AVXC4H***CE	-	MR-BH01U	MR-BH01U	MR-BH01U	MR-BH01U	MR-BH01U
		ND***4HXCA	-	MR-BH01	MR-BH01	MR-BH01	MR-BH01	MR-BH01
	Wired Remote Controller	Simplified	-	MWR-SH00	MWR-SH00	MWR-SH00	MWR-SH00	MWR-SH00
		Multi Function	-	MWR-WE00	MWR-WE00	MWR-WE00	MWR-WE00	MWR-WE00
		Premium	-	MWR-WS01	MWR-WS01	MWR-WS01	MWR-WS01	MWR-WS01
	External Contact Interface Module	-	MIM-B14	MIM-B14	MIM-B14	MIM-B14	MIM-B14	



*1) Mode

- HP : Heat Pump

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

Indoor Unit(cont.)

■ Slim duct type

Model			AVXDSH020CE/ ND020LHXCA	AVXDSH032CE/ ND032LHXCA	AVXDSH040CE/ ND040LHXCA	AVXDSH052CE/ ND052LHXCA	
Power Supply			∅,V,Hz	1,208~230,60	1,208~230,60	1,208~230,60	
Mode *1)			-	HP / HR	HP / HR	HP / HR	
Performance	Capacity	Cooling *2)	kW	2.0	3.2	4.0	5.2
			Btu/h	6,000	7,500	12,000	18,000
	Heating *3)	kW	2.3	3.6	4.5	6.0	
		Btu/h	7,000	8,500	13,500	20,000	
Condensate (with High fan speed)			ℓ/h	-	-	-	
Power	Input Consumption (Cooling/Heating)		W	47 / 47	60 / 60	75 / 75	110 / 110
	Running Current (Cooling/Heating)		A	0.32 / 0.32	0.34 / 0.34	0.35 / 0.35	0.65 / 0.65
Noise Level			Actual Noise Pressure (High) *4)	dB(A)	37 / 38	37 / 38	45 / 45
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Model	-	YSK110-25-6SN	YSK110-25-6SN	YSK110-25-6SN	YSK140-60-4B-1
		Type	-	Non Feedback SSR	Non Feedback SSR	Non Feedback SSR	Non Feedback SSR
		Output	W	-	-	-	-
Fan Speed	The progress of work(H/M/L)		rpm	702/560/451	988/839/571	1,008/852/616	1,115/907/739
	Cooling (H/M/L)			920/840/740	1,040/960/830	1,060/990/870	1,220/1,048/916
	Heating (H/M/L)			920/840/740	1,040/960/830	1,060/990/870	1,220/1,048/916
Airflow Rate	Cooling (High)		m ³ /min	8.0	10.0	12.0	14.5
	Heating (High)			9.0	12.0	13.0	16.5
	Cooling (High)		CFM	282	353	424	512
	Heating (High)			318	424	459	583
	External Static Pressure	Standard(Min.~Max)	mmH2O	2 (0~4)	2 (0~4)	2 (0~4)	2 (0~4)
			WG	0.08 (0~0.16)	0.08 (0~0.16)	0.08 (0~0.16)	0.08 (0~0.16)
Refrigerant	Type		-	R410a	R410a	R410a	R410a
	Control Method		-	EEV	EEV	EEV	EEV
Temperature Control			-	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors
Safety Devices			-	Fuse	Fuse	Fuse	Fuse
Option Code	AVXDSH***CE		-	015221-1103D1 -200001-300000	015223-1401B6 -200001-300000	015223-160329 -200001-300000	015223-1901ED -200001-300000
	ND***LHXCA		-	015221-1103D1 -200000-300000	015223-1401B6 -200000-300000	015223-160329 -200000-300000	015223-1901ED -200000-300000
Piping Connections	Liquid (Flare)	∅,mm	6.35	6.35	6.35	6.35	
		∅,inch	1/4"	1/4"	1/4"	1/4"	
	Gas (Flare)	∅,mm	12.70	12.70	12.70	12.70	
		∅,inch	1/2"	1/2"	1/2"	1/2"	
	Drain (Quick Lock)	∅,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
		∅,inch	VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")	
Weight	Net Weight	kg	26.0	26.0	26.0	31.0	
		lbs	57.3	57.3	57.3	68.3	
	Shipping Weight	kg	31.0	31.0	31.0	39.0	
		lbs	68.3	68.3	68.3	86.0	
Dimensions	Net Dimensions (W×H×D)	mm	900×199×600	900×199×600	900×199×600	1100×199×600	
		inch	35.4×7.8×23.6	35.4×7.8×23.6	35.4×7.8×23.6	43.3×7.8×23.6	
	Shipping Dimensions (W×H×D)	mm	1,133×330×730	1,133×330×730	1,133×330×730	1,330×330×730	
		inch	44.6×13×28.7	44.6×13×28.7	44.6×13×28.7	52.4×13×28.7	
Panel Size	Model		-	-	-	-	
	Net Weight	kg	-	-	-	-	
		lbs	-	-	-	-	
	Shipping Weight	kg	-	-	-	-	
		lbs	-	-	-	-	
	Net Dimensions (W×H×D)	mm	-	-	-	-	
		inch	-	-	-	-	
	Shipping Dimensions (W×H×D)	mm	-	-	-	-	
inch		-	-	-	-		

Indoor Unit(cont.)**Slim duct type(cont.)**

Model			AVXDSH020CE/ ND020LHXCA	AVXDSH032CE/ ND032LHXCA	AVXDSH040CE/ ND040LHXCA	AVXDSH052CE/ ND052LHXCA	
Functions	Auto Restart	-	O	O	O	O	
	Auto Swing	-	X	X	X	X	
	Group/Individual Control	-	O	O	O	O	
	External Contact Control	-	O	O	O	O	
	Trouble Shooting by LED	-	X	X	X	X	
Standard Accessories	Installation Manual	-	O	O	O	O	
	Operation Manual	-	O	O	O	O	
	Pattern Sheet for Installation	-	X	X	X	X	
	Flexible Drain Hose	-	O	O	O	O	
	Filter / Safety Grille	-	Filter (Washable)	Filter (Washable)	Filter (Washable)	Filter (Washable)	
	Drain Pump (Pumping speed, lift)	ℓ/h,mm	24, 750	24, 750	24, 750	24, 750	
Optional Accessories	Wireless Remote Controller	AVXDSH***CE	-	MR-BH01U	MR-BH01U	MR-BH01U	MR-BH01U
		ND***LHXCA	-	MR-BH01	MR-BH01	MR-BH01	MR-BH01
	Wired Remote Controller	Simplified	-	MWR-SH00	MWR-SH00	MWR-SH00	MWR-SH00
		Multi Function	-	MWR-WE00	MWR-WE00	MWR-WE00	MWR-WE00
		Premium	-	MWR-WS01	MWR-WS01	MWR-WS01	MWR-WS01
	External Contact Interface Module	-	MIM-B14	MIM-B14	MIM-B14	MIM-B14	
	Drain Pump	-	MDP-E075SEE	MDP-E075SEE	MDP-E075SEE	MDP-E075SEE	
	Remote Controller Receiver Kit(Duct)	-	MRK-A00	MRK-A00	MRK-A00	MRK-A00	
	Remote Controller Receiver Wire(Duct)	-	MRW-10A	MRW-10A	MRW-10A	MRW-10A	



*1) Mode

- HP : Heat Pump

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

Indoor Unit(cont.)**Slim duct type(cont.)**

Model			AVXDSH072CE/ ND072LHXCA	AVXDSH100CE/ ND100LHXCA	AVXDSH110CE/ ND110LHXCA	AVXDSH145CE/ ND145LHXCA	
Power Supply			Ø,V,Hz	1,208~230,60	1,208~230,60	1,208~230,60	
Mode *1)			-	HP / HR	HP / HR	HP / HR	
Performance	Capacity	Cooling *2)	kW	7.2	10.0	11.0	14.5
			Btu/h	24,000	30,000	36,000	48,000
		Heating *3)	kW	8.1	11.0	12.8	16.3
			Btu/h	27,000	34,000	40,000	54,000
Condensate (with High fan speed)		ℓ/h	-	-	-	-	
Power	Input Consumption (Cooling/Heating)		W	130 / 130	95/95	120/120	180/180
	Running Current (Cooling/Heating)		A	0.70 / 0.70	0.8/0.8	1.05/1.05	1.4/1.4
Noise Level			Actual Noise Pressure (High) *4)	dB(A)	47 / 47	43 / 44	45 / 46
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Model	-	YSK140-60-4B-1	DL-12840SSBC	DL-12840SSBC	DL-12840SSBC
		Type	-	Non Feedback SSR	BLDC	BLDC	BLDC
		Output	W	183	183	183	183
Fan Speed	The progress of work(H/M/L)		rpm	1,275/1,025/785	886/817/737	945/847/758	1,075/930/801
	Cooling (H/M/L)			1,350/1,139/968	950/880/810	1,020/910/830	1,160/1,000/870
	Heating (H/M/L)			1,350/1,139/968	950/880/810	1,020/910/830	1,160/1,000/870
Airflow Rate	Cooling (High)		m ³ /min	17.0	25.0	29.0	35.0
	Heating (High)		m ³ /min	19.0	22.0	33.0	37.0
	Cooling (High)		CFM	600	883	1024	1236
	Heating (High)		CFM	671	777	1165	1306
	External Static Pressure	Standard(Min.~Max)	mmH2O	2 (0~4)	3 (0~6)	3 (0~6)	3 (0~6)
Standard(Min.~Max)		WG	0.08 (0~0.16)	0.12(0~0.24)	0.12(0~0.24)	0.12(0~0.24)	
Refrigerant	Type		-	R410a	R410a	R410a	R410a
	Control Method		-	EEV	EEV	EEV	EEV
Temperature Control			-	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors
Safety Devices			-	Fuse	Fuse	Fuse	Fuse
Option Code	AVXDSH***CE		-	015224-1C0250 -200001-300000	015213-1F019F 200001-300000	015A14-1000D0 200001-300000	015A14-130263 200001-300000
	ND***LHXCA		-	015224-1C0250 -200000-300000	015213-1F019F 200000-300000	015A14-1000D0 200000-300000	015A14-130263 200000-300000
Piping Connections	Liquid (Flare)	Ø,mm	9.52	9.52	9.52	9.52	
		Ø,inch	3/8"	3/8"	3/8"	3/8"	
	Gas (Flare)	Ø,mm	15.88	15.88	15.88	15.88	
		Ø,inch	5/8"	5/8"	5/8"	5/8"	
	Drain (Quick Lock)	Ø,mm	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	VP25 (OD 32, ID 25)	
		Ø,inch	VP25 (OD 1 1/4", ID 1")	VP25 (OD 1 1/4", ID 1")	VP25 (OD 1 1/4", ID 1")	VP25 (OD 1 1/4", ID 1")	
Weight	Net Weight	kg	31.0	43.0	43.0	46.0	
		lbs	68.3	94.8	94.8	101.4	
	Shipping Weight	kg	39.0	51.5	51.5	54.5	
		lbs	86.0	113.5	113.5	120.2	
Dimensions	Net Dimensions (W×H×D)	mm	1,100×199×600	1,300×295×690	1,300×295×690	1,300×295×690	
		inch	43.3×7.8×23.6	51.2×11.6×27.2	51.2×11.6×27.2	51.2×11.6×27.2	
	Shipping Dimensions (W×H×D)	mm	1,330×330×730	1,600×441×831	1,600×441×831	1,600×441×831	
		inch	52.4×13×28.7	63×17.4×32.7	63×17.4×32.7	63×17.4×32.7	
Panel Size	Model		-	-	-	-	
	Net Weight	kg	-	-	-	-	
		lbs	-	-	-	-	
	Shipping Weight	kg	-	-	-	-	
		lbs	-	-	-	-	
	Net Dimensions (W×H×D)	mm	-	-	-	-	
		inch	-	-	-	-	
	Shipping Dimensions (W×H×D)	mm	-	-	-	-	
inch		-	-	-	-		

Indoor Unit(cont.)**Slim duct type(cont.)**

Model			AVXDSH072CE/ ND072LHXCA	AVXDSH100CE/ ND100LHXCA	AVXDSH110CE/ ND110LHXCA	AVXDSH145CE/ ND145LHXCA	
Functions	Auto Restart	-	O	O	O	O	
	Auto Swing	-	X	X	X	X	
	Group/Individual Control	-	O	O	O	O	
	External Contact Control	-	O	O	O	O	
	Trouble Shooting by LED	-	X	X	X	X	
Standard Accessories	Installation Manual	-	O	O	O	O	
	Operation Manual	-	O	O	O	O	
	Pattern Sheet for Installation	-	X	X	X	X	
	Flexible Drain Hose	-	O	O	O	O	
	Filter / Safety Grille	-	Filter (Washable)	Filter (Washable)	Filter (Washable)	Filter (Washable)	
	Drain Pump (Pumping speed, lift)	ℓ/h,mm	24, 750	24, 750	24, 750	24, 750	
Optional Accessories	Wireless Remote Controller	AVXDSH***CE	-	MR-BH01U	MR-BH01U	MR-BH01U	MR-BH01U
		ND***LHXCA	-	MR-BH01	MR-BH01	MR-BH01	MR-BH01
	Wired Remote Controller	Simplified	-	MWR-SH00	MWR-SH00	MWR-SH00	MWR-SH00
		Multi Function	-	MWR-WE00	MWR-WE00	MWR-WE00	MWR-WE00
		Premium	-	MWR-WS01	MWR-WS01	MWR-WS01	MWR-WS01
	External Contact Interface Module	-	MIM-B14	MIM-B14	MIM-B14	MIM-B14	
	Drain Pump	-	MDP-E075SEE1	MDP-E075SEE1	MDP-E075SEE1	MDP-E075SEE1	
	Remote Controller Receiver Kit(Duct)	-	MRK-A00	MRK-A00	MRK-A00	MRK-A00	
	Remote Controller Receiver Wire(Duct)	-	MRW-10A	MRW-10A	MRW-10A	MRW-10A	



*1) Mode

- HP : Heat Pump

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

Indoor Unit(cont.)

■ MSP duct type

Model			AVXDUH100CE/ ND100SHXCA	AVXDUH110CE/ ND110SHXCA	AVXDUH145CE/ ND145SHXCA	
Power Supply			Ø,V,Hz	1,208~230,60	1,208~230,60	
Mode *1)			-	HP / HR	HP / HR	
Performance	Capacity	Cooling *2)	kW	10.0	11.0	14.5
			Btu/h	30,000	36,000	48,000
		Heating *3)	kW	11.0	12.8	16.3
			Btu/h	34,000	40,000	54,000
	Condensate (with High fan speed)		ℓ/h	-	-	-
Power	Input Consumption (Cooling/Heating)		W	260 / 260	275 / 275	430 / 430
	Running Current (Cooling/Heating)		A	1.52 / 1.52	1.57 / 1.57	2.45 / 2.45
Noise Level			Actual Noise Pressure (High) *4)	dB(A)	48 / 49	50 / 51
Fan	Type		-	Sirocco Fan	Sirocco Fan	Sirocco Fan
	Motor	Model	-	YSK140-200-4	YSK140-200-4	YDK-370565023-01
		Type	-	Non Feedback SSR	Non Feedback SSR	Non Feedback SSR
		Output	W	180	180	218
Fan Speed	The progress of work(H/M/L)		rpm	1,000/880/744	1,071/921/787	895/763/645
	Cooling (H/M/L)			1,240/1,170/1090	1,280/1,190/1,110	1,040/950/880
	Heating (H/M/L)			1,240/1,170/1,090	1,280/1,190/1,110	1,040/950/880
Airflow Rate	Cooling (High)		m ³ /min	25.0	27.0	35.0
	Heating (High)			25.0	27.0	35.0
	Cooling (High)		CFM	883	953	1236
	Heating (High)			883	953	1236
	External Static Pressure	Standard(Min.~Max)	mmH2O	8 (6~10)	8 (6~10)	8 (6~10)
			WG	0.31 (0.24~0.39)	0.31 (0.24~0.39)	0.31 (0.24~0.39)
Refrigerant	Type		-	R410a	R410a	R410a
	Control Method		-	EEV	EEV	EEV
Temperature Control			-	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors
Safety Devices			-	Fuse	Fuse	Fuse
Option Code	AVXDUH***CE		-	015224-1F0202 -200001-300000	015A24-100244 -200001-300000	015A24-130243 -200001-300000
	ND***SHXCA		-	015224-1F0202 -200000-300000	015A24-100244 -200000-300000	015A24-130243 -200000-300000
Piping Connections	Liquid (Flare)	Ø,mm	9.52	9.52	9.52	
		Ø,inch	3/8"	3/8"	3/8"	
	Gas (Flare)	Ø,mm	15.88	15.88	15.88	
		Ø,inch	5/8"	5/8"	5/8"	
	Drain (Quick Lock)	Ø,mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
		Ø,inch	VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")	VP25 (OD 1 1/4",ID 1")	
Weight	Net Weight	kg	46.0	46.0	52.0	
		lbs	101.4	101.4	114.6	
	Shipping Weight	kg	54.5	54.5	60.0	
		lbs	120.2	120.2	132.3	
Dimensions	Net Dimensions (W×H×D)	mm	1,150×320×480	1,150×320×480	1,200×360×650	
		inch	43.3×12.6×18.9	43.3×12.6×18.9	47.2×14.2×25.6	
	Shipping Dimensions (W×H×D)	mm	1,390×424×584	1,390×424×584	1,456×434×778	
		inch	54.7×16.7×23	54.7×16.7×23	57.3×17.1×30.6	
Panel Size	Model		-	-	-	-
	Net Weight	kg	-	-	-	-
		lbs	-	-	-	-
	Shipping Weight	kg	-	-	-	-
		lbs	-	-	-	-
	Net Dimensions (W×H×D)	mm	-	-	-	-
		inch	-	-	-	-
	Shipping Dimensions (W×H×D)	mm	-	-	-	-
		inch	-	-	-	-

Indoor Unit(cont.)**MSP duct type(cont.)**

Model		AVXDUH100CE/ ND100SHXCA	AVXDUH110CE/ ND110SHXCA	AVXDUH145CE/ ND145SHXCA		
Functions	Auto Restart	-	O	O		
	Auto Swing	-	X	X		
	Group/Individual Control	-	O	O		
	External Contact Control	-	O	O		
	Trouble Shooting by LED	-	X	X		
Standard Accessories	Installation Manual	-	O	O		
	Operation Manual	-	O	O		
	Pattern Sheet for Installation	-	X	X		
	Flexible Drain Hose	-	O	O		
	Filter / Safety Grille	-	Filter (Washable)	Filter (Washable)		
	Drain Pump (Pumping speed, lift)	ℓ/h,mm	24, 750	24, 750		
Optional Accessories	Wireless Remote Controller	AVXDUH***CE	-	MR-BH01U	MR-BH01U	MR-BH01U
		ND***SHXCA	-	MR-BH01	MR-BH01	MR-BH01
	Wired Remote Controller	Simplified	-	MWR-SH00	MWR-SH00	MWR-SH00
		Multi Function	-	MWR-WE00	MWR-WE00	MWR-WE00
		Premium	-	MWR-WS01	MWR-WS01	MWR-WS01
	External Contact Interface Module	-	MIM-B14	MIM-B14	MIM-B14	
	Drain Pump	-	MDP-M075SGU1	MDP-M075SGU1	MDP-M075SGU2	
	Remote Controller Receiver Kit(Duct)	-	MRK-A00	MRK-A00	MRK-A00	
	Remote Controller Receiver Wire(Duct)	-	MRW-10A	MRW-10A	MRW-10A	



*1) Mode

- HP : Heat Pump

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

Indoor Unit(cont.)

■ BIG duct type

Model			ND220HHXCE ND220HHXCA	ND280HHXCE ND280HHXCA	
Power Supply			Ø,V,Hz	1/208-230/60	1/208-230/60
Mode *1)			-	HP / HR	HP / HR
Performance	Capacity	Cooling *2)	kW	22.4	28.0
			Btu/h	76,800	96,000
		Heating *3)	kW	25.0	31.5
			Btu/h	85,200	108,000
	Condensate (with High fan speed)		ℓ/h		
Power	Input Consumption (Cooling/Heating)		W	530	790
	Running Current (Cooling/Heating)		A	3.8	5.9
Noise Level	Actual Noise Pressure (High) *4)		dB(A)	47	48
Fan	Type		-	Sirocco Fan	Sirocco Fan
	Motor	Model	-	DL-13875SSOB	DL-13875SSOB
		Type	-	BLDC	BLDC
		Output	W	400	400
Fan Speed	The progress of work(H/M/L)				
	Cooling (H/M/L)		rpm	965/870/810	1100/1000/870
	Heating (H/M/L)			965/870/810	1100/1000/870
Airflow Rate	Cooling (High)		m ³ /min	58	72
	Heating (High)			58	72
	Cooling (High)		CFM	2,048	2,542
	Heating (High)			2,048	2,542
	External Static Pressure	Standard(Min.~Max)	mmH2O	15(5-25)	15(5-28)
		Standard(Min.~Max)	WG	0.59(0.20-0.98)	0.59(0.20-1.10)
Refrigerant	Type		-	R410A	R410A
	Control Method		-	EEV	EEV
Temperature Control			-	Micom&Thermistors	Micom&Thermistors
Safety Devices			-	Fuse	Fuse
Option Code	ND***CE		-	"015A171600E8 -200001300000"	"015A1717025B -200001300000"
	ND***CA		-	"015A171600E8 -200000300000"	"015A1717025B -200000300000"
Piping Connections	Liquid (Flare)	Ø,mm	9.52	9.52	
		Ø,inch	3/8"	3/8"	
	Gas (Flare)	Ø,mm	19.05	22.2	
		Ø,inch	3/4"	7/8"	
	Drain (Quick Lock)	Ø,mm	VP25(OD32, ID25)	VP25(OD32, ID25)	
		Ø,inch	VP25(OD1 1/4", ID 1")	VP25(OD1 1/4", ID 1")	
Weight	Net Weight	kg	95	95	
		lbs	210	210	
	Shipping Weight	kg	105	105	
		lbs	232	232	
Dimensions	Net Dimensions (W×H×D)	mm	1240x470x1040	1240x470x1040	
		inch	48.8x18.5x41.0	48.8x18.5x41.0	
	Shipping Dimensions (W×H×D)	mm	1507x558x1155	1507x558x1155	
		inch	59.4x22.0x45.5	59.4x22.0x45.5	
Panel Size	Model		-	-	-
	Net Weight	kg	-	-	
		lbs	-	-	
	Shipping Weight	kg	-	-	
		lbs	-	-	
	Net Dimensions (W×H×D)	mm	-	-	
		inch	-	-	
	Shipping Dimensions (W×H×D)	mm	-	-	
inch		-	-		

Indoor Unit(cont.)**BIG duct type(cont.)**

Model			ND220HHXCE ND220HHXCA	ND280HHXCE ND280HHXCA	
Functions	Auto Restart	-	O	O	
	Auto Swing	-	X	X	
	Group/Individual Control	-	O	O	
	External Contact Control	-	O	O	
	Trouble Shooting by LED	-	X	X	
Standard Accessories	Installation Manual	-	O	O	
	Operation Manual	-	O	O	
	Pattern Sheet for Installation	-	O	O	
	Flexible Drain Hose	-	O	O	
	Filter / Safety Grille	-	X	X	
	Drain Pump (Pumping speed, lift)	ℓ/h,mm	24, 470	24, 470	
Optional Accessories	Wireless Remote Controller	ND***CE	-	MR-BH01U	MR-BH01U
		ND***CA	-	MR-BH00	MR-BH00
	Wired Remote Controller	Simplified	-	MWR-WH02	MWR-WH02
		Multi Function	-	MWR-WE10	MWR-WE10
		Premium	-	-	-
	External Contact Interface Module	-	MIM-B14	MIM-B14	
	Drain Pump	-	MDP-N047SNC1	MDP-N047SNC1	
	Remote Controller Receiver Kit(Duct)	-	MRK-A00	MRK-A00	
	Remote Controller Receiver Wire(Duct)	-	MRW-10A	MRW-10A	



*1) Mode

- HP : Heat Pump

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

Indoor Unit(cont.)

■ Wall Mounted type_Vivace

Model			AVXWVH020CE/ ND020VHXCA	AVXWVH032CE/ ND032VHXCA	AVXWVH040CE/ ND040VHXCA	AVXWVH052CE/ ND052VHXCA	AVXWVH060CE/ ND060VHXCA	
Power Supply		Ø,V,Hz	1,208~230,60	1,208~230,60	1,208~230,60	1,208~230,60	1,208~230,60	
Mode *1)		-	HP / HR	HP / HR	HP / HR	HP / HR	HP / HR	
Performance	Capacity	Cooling *2)	kW	2.0	3.2	4.0	5.2	6.0
			Btu/h	6,000	9,500	12,000	18,000	20,000
	Heating *3)	kW	2.3	3.6	4.5	6.0	6.8	
		Btu/h	7,000	10,500	13,500	20,000	23,000	
	Condensate (with High fan speed)		ℓ/h	1.12	1.44	1.91	3.03	3.51
Power	Input Consumption (Cooling/Heating)		W	30 / 30	30/30	35 / 35	50 / 50	50 / 50
	Running Current (Cooling/Heating)		A	0.13 / 0.13	0.18/0.18	0.19 / 0.19	0.3 / 0.3	0.3 / 0.3
Noise Level		Actual Noise Pressure (High) *4)		dB(A)	42 / 42	43 / 43	50 / 50	50 / 50
Fan	Type		-	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan	Crossflow Fan
	Motor	Model	-	YDK-016S1408-01	YDK-016S1408-01	YDK-016S1408-01	YDK-045S42213-02	YDK-045S42213-02
		Type	-	Feedback SSR	Feedback SSR	Feedback SSR	Feedback SSR	Feedback SSR
		Output	W	23.0	23.0	23.0	42.0	42.0
Fan Speed	Cooling (H/M/L)		rpm	1,000/878/755	1,000/878/755	1,105/965/860	1,245/1,105/1,000	1,315/1,210/1,105
	Heating (H/M/L)		rpm	965/843/720	965/843/720	1,175/1,035/930	1,245/1,105/1,000	1,315/1,210/1,105
Airflow Rate	Cooling (High)		m ³ /min	7.0	7.0	8.2	13.3	13.3
	Heating (High)		m ³ /min	7.3	7.3	8.8	14.0	14.0
	Cooling (High)		CFM	247	247	290	470	470
	Heating (High)		CFM	258	258	311	494	494
	External Static Pressure	Standard(Min.~Max)	mmH2O	-	-	-	-	-
		Standard(Min.~Max)	WG	-	-	-	-	-
Refrigerant	Type		-	R410a	R410a	R410a	R410a	R410a
	Control Method		-	EEV (optional)	EEV (optional)	EEV (optional)	EEV (optional)	EEV (optional)
Temperature Control		-	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	
Safety Devices		-	Fuse	Fuse	Fuse	Fuse	Fuse	
Option Code	AVXWVH***CE		-	004602-1120E7 200001-300000	004602-1320E7 200001-300000	007602-15221A 200001-300000	005606-1A225E 200001-300000	005606-1C2371 200001-300000
	ND***VHXCA		-	004602-1120E7 200000-300000	004602-1320E7 200000-300000	007602-15221A 200000-300000	005606-1A225E 200000-300000	005606-1C2371 200000-300000
Piping Connections	Liquid (Flare)	Ø,mm	6.35	6.35	6.35	6.35	6.35	
		Ø,inch	1/4"	1/4"	1/4"	1/4"	1/4"	
	Gas (Flare)	Ø,mm	12.70	12.70	12.70	12.70	12.70	
		Ø,inch	1/2"	1/2"	1/2"	1/2"	1/2"	
	Drain (Quick Lock)	Ø,mm	ID 18 hose	ID 18 hose	ID 18 hose	ID 18 hose	ID 18 hose	
		Ø,inch	-	-	-	-	-	
Weight	Net Weight	kg	8.5	7.8	7.8	12.0	12.0	
		lbs	18.7	17.2	17.2	26.5	26.5	
	Shipping Weight	kg	11.5	9.4	9.4	15.0	15.0	
		lbs	25.4	20.7	20.7	33.1	33.1	
Dimensions	Net Dimensions (W×H×D)	mm	825×285×189	825×285×189	825×285×189	1,065×298×218	1,065×298×218	
		inch	32.5×11.2×7.4	32.5×11.2×7.4	32.5×11.2×7.4	42×11.7×8.6	42×11.7×8.6	
	Shipping Dimensions (W×H×D)	mm	900×349×252	900×349×252	900×349×252	1,137×377×299	1,137×377×299	
		inch	35.4×13.7×10	35.4×13.7×10	35.4×13.7×10	44.8×14.8×11.8	44.8×14.8×11.8	
Functions	Auto Restart		-	O	O	O	O	O
	Auto Swing		-	O	O	O	O	O
	Group/Individual Control		-	O	O	O	O	O
	External Contact Control		-	O	O	O	O	O
	Trouble Shooting by LED		-	O	O	O	O	O
Standard Accessories	Installation Manual		-	O	O	O	O	O
	Operation Manual		-	O	O	O	O	O
	Pattern Sheet for Installation		-	X	X	X	X	X
	Flexible Drain Hose		-	O	O	O	O	O
	Filter / Safety Grille		-	Filter (Washable)	Filter (Washable)	Filter (Washable)	Filter (Washable)	Filter (Washable)

Indoor Unit(cont.)**Wall Mounted type_Vivace(cont.)**

Model		AVXWVH020CE/ ND020VHXCA	AVXWVH032CE/ ND032VHXCA	AVXWVH040CE/ ND040VHXCA	AVXWVH052CE/ ND052VHXCA	AVXWVH060CE/ ND060VHXCA
Optional Accessories	Wireless Remote Controller	AVXWVH***CE	-	MR-BH01U	MR-BH01U	MR-BH01U
		ND***VHXCA	-	MR-BH01	MR-BH01	MR-BH01
	Wired Remote Controller	Simplified	-	MWR-SH00	MWR-SH00	MWR-SH00
		Multi Function	-	MWR-WE00	MWR-WE00	MWR-WE00
		Premium	-	MWR-WS01	MWR-WS01	MWR-WS01
	External Contact Interface Module	-	MIM-B14	MIM-B14	MIM-B14	MIM-B14



*1) Mode

- HP : Heat Pump

*2) Norminal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Norminal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

Indoor Unit(cont.)

■ Wall Mounted type_Neo forte without EEV

Model			AVXWNH020CE/ ND020NHXCA	AVXWNH032CE/ ND032NHXCA	AVXWNH040CE/ ND040NHXCA	AVXWNH052CE/ ND052NHXCA	AVXWNH060CE/ ND060NHXCA	
Power Supply			Ø,V,Hz	1,208~230,60	1,208~230,60	1,208~230,60	1,208~230,60	1,208~230,60
Mode ^{*1)}			-	HP / HR	HP / HR	HP / HR	HP / HR	HP / HR
Performance	Capacity	Cooling ^{*2)}	kW	2.0	3.2	4.0	5.2	6.0
			Btu/h	6,000	9,500	12,000	18,000	20,000
		Heating ^{*3)}	kW	2.3	3.6	4.5	6.0	6.8
			Btu/h	7,000	10,500	13,500	20,000	23,000
	Condensate (with High fan speed)		ℓ/h	1.12	1.44	1.91	2.87	3.51
Power	Input Consumption (Cooling/Heating)		W	25 / 25	25 / 25	30 / 30	45 / 45	50/50
	Running Current (Cooling/Heating)		A	0.16 / 0.16	0.16 / 0.16	0.18 / 0.18	0.27 / 0.27	0.30/0.30
Noise Level	Actual Noise Pressure (High) ^{*4)}		dB(A)	42 / 42	43 / 43	43 / 43	48 / 48	48 / 48
Fan	Type		-	Crossflow fan	Crossflow fan	Crossflow fan	Crossflow fan	Crossflow fan
	Motor	Model	-	YDK-016S41408-01	YDK-016S41408-01	YDK-016S41408-01	YDK-045S42213-02	YDK-045S42213-02
		Type	-	Feedback SSR	Feedback SSR	Feedback SSR	Feedback SSR	Feedback SSR
		Output	W	23	23	23	40	40
Fan Speed	Cooling (H/M/L)		rpm	1,035 / 948 / 860	1,035 / 948 / 860	1,210 / 1,088 / 965	1,280 / 1,158 / 1,035	1,350 / 1,193 / 1,035
	Heating (H/M/L)			1,105 / 1,018 / 930	1,105 / 1,018 / 930	1,280 / 1,158 / 1,035	1,315 / 1,193 / 1,070	1,385 / 1,228 / 1,070
Airflow Rate	Cooling (High)		m ³ /min	7.8	7.8	9.3	12.0	14.0
	Heating (High)			8.2	8.2	9.5	13.0	15.0
	Cooling (High)		CFM	275	275	328	424	494
	Heating (High)			290	290	335	459	530
	External Static Pressure	Standard(Min.~Max)	mmH2O	-	-	-	-	-
Standard(Min.~Max)		WG	-	-	-	-	-	
Refrigerant	Type		-	R410a	R410a	R410a	R410a	R410a
	Control Method		-	EEV (optional)	EEV (optional)	EEV (optional)	EEV (optional)	EEV (optional)
Temperature Control			-	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors
Safety Devices			-	Fuse	Fuse	Fuse	Fuse	Fuse
Option Code	AVXWNH***CE		-	027602-1120FA 200001-300000	027602-1320FA 200001-300000	027602-15224D 200001-300000	026602-1A226F 200001-300000	026602-1C228F 200001-300000
	ND***NHXCA		-	027602-1120FA 200000-300000	027602-1320FA 200000-300000	027602-15224D 200000-300000	026602-1A226F 200000-300000	026602-1C228F 200000-300000
Piping Connections	Liquid (Flare)	Ø,mm	6.35	6.35	6.35	6.35	6.35	
		Ø,inch	1/4"	1/4"	1/4"	1/4"	1/4"	
	Gas (Flare)	Ø,mm	12.70	12.70	12.70	12.70	12.70	
		Ø,inch	1/2"	1/2"	1/2"	1/2"	1/2"	
	Drain (Quick Lock)	Ø,mm	ID 18 hose	ID 18 hose	ID 18 hose	ID 18 hose	ID 18 hose	
		Ø,inch	-	-	-	-	-	
Weight	Net Weight	kg	7.8	7.8	7.8	13.0	13.0	
		lbs	17.2	17.2	17.2	28.7	28.7	
	Shipping Weight	kg	9.4	9.4	9.4	16.0	16.0	
		lbs	20.7	20.7	20.7	35.3	35.3	
Dimensions	Net Dimensions (WxHxD)	mm	825x285x189	825x285x189	825x285x189	1,099x315x217	1,099x315x217	
		inch	32.5x11.2x7.4	32.5x11.2x7.4	32.5x11.2x7.4	43.3x12.4x8.5	43.3x12.4x8.5	
	Shipping Dimensions (WxHxD)	mm	900x349x252	900x349x252	900x349x252	1,137x377x299	1,137x377x299	
		inch	35.4x13.7x10	35.4x13.7x10	35.4x13.7x10	44.8x14.8x11.8	44.8x14.8x11.8	

Indoor Unit(cont.)**Wall Mounted type_Neo forte without EEV(cont.)**

Model			AVXWNH020CE/ ND020NHXCA	AVXWNH032CE/ ND032NHXCA	AVXWNH040CE/ ND040NHXCA	AVXWNH052CE/ ND052NHXCA	AVXWNH060CE/ ND060NHXCA
Functions	Auto Restart	-	O	O	O	O	O
	Auto Swing	-	O	O	O	O	O
	Group/Individual Control	-	O	O	O	O	O
	External Contact Control	-	O	O	O	O	O
	Trouble Shooting by LED	-	O	O	O	O	O
Standard Accessories	Installation Manual	-	O	O	O	O	O
	Operation Manual	-	O	O	O	O	O
	Pattern Sheet for Installation	-	X	X	X	X	X
	Flexible Drain Hose	-	O	O	O	O	O
	Filter / Safety Grille	-	Filter (Washable)	Filter (Washable)	Filter (Washable)	Filter (Washable)	Filter (Washable)
Optional Accessories	Wireless Remote Controller	AVXWNH***CE	-	MR-BH01U	MR-BH01U	MR-BH01U	MR-BH01U
		ND***NHXCA	-	MR-BH01	MR-BH01	MR-BH01	MR-BH01
	Wired Remote Controller	Simplified	-	MWR-SH00	MWR-SH00	MWR-SH00	MWR-SH00
		Multi Function	-	MWR-WE00	MWR-WE00	MWR-WE00	MWR-WE00
		Premium	-	MWR-WS01	MWR-WS01	MWR-WS01	MWR-WS01
	External Contact Interface Module	-	MIM-B14	MIM-B14	MIM-B14	MIM-B14	



*1) Mode

- HP : Heat Pump

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

Indoor Unit(cont.)

■ Wall Mounted type_Neo forte with EEV

Model			ND020QHXA	ND032QHXA	ND040QHXA	ND052QHXA	ND060QHXA	
Power Supply			Ø,V,Hz	1,208~230,60	1,208~230,60	1,208~230,60	1,208~230,60	
Mode *1)			-	HP / HR	HP / HR	HP / HR	HP / HR	
Performance	Capacity	Cooling *2)	kW	2.0	3.2	4.0	5.2	6.0
			Btu/h	6,000	9,500	12,000	18,000	20,000
		Heating *3)	kW	2.3	3.6	4.5	6.0	6.8
			Btu/h	7,000	10,500	13,500	20,000	23,000
	Condensate (with High fan speed)		ℓ/h	1.12	1.44	1.91	2.87	3.51
Power	Input Consumption (Cooling/Heating)		W	25 / 25	25 / 25	30 / 30	45 / 45	50/50
	Running Current (Cooling/Heating)		A	0.16 / 0.16	0.16 / 0.16	0.18 / 0.18	0.27 / 0.27	0.27 / 0.27
Noise Level	Actual Noise Pressure (High) *4)		dB(A)	43 / 43	44 / 44	44 / 44	49 / 49	49 / 49
Fan	Type		-	Crossflow fan	Crossflow fan	Crossflow fan	Crossflow fan	Crossflow fan
	Motor	Model	-	YFK-8-4-SX06	YFK-8-4-SX06	YFK-8-4-SX06	YDK-045S42213-02	YDK-045S42213-02
		Type	-	Feedback SSR	Feedback SSR	Feedback SSR	Feedback SSR	Feedback SSR
		Output	W	16	16	16	40	40
Fan Speed	Cooling (H/M/L)		rpm	1,035 / 948 / 860	1,035 / 948 / 860	1,210 / 1,088 / 965	1,280 / 1,158 / 1,035	1,280 / 1,158 / 1,035
	Heating (H/M/L)		rpm	1,105 / 1,018 / 930	1,105 / 1,018 / 930	1,280 / 1,158 / 1,035	1,315 / 1,193 / 1,070	1,315 / 1,193 / 1,070
Airflow Rate	Cooling (High)		m ³ /min	7.8	7.8	9.3	12.0	12.0
	Heating (High)			8.2	8.2	9.5	13.0	13.0
	Cooling (High)		CFM	275	275	328	424	424
	Heating (High)			290	290	335	459	530
	External Static Pressure	Standard(Min.-Max)	mmH2O	-	-	-	-	-
		Standard(Min.-Max)	WG	-	-	-	-	-
Refrigerant	Type		-	R410a	R410a	R410a	R410a	R410a
	Control Method		-	EEV	EEV	EEV	EEV	EEV
Temperature Control			-	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors	Micom&Thermistors
Safety Devices			-	Fuse	Fuse	Fuse	Fuse	Fuse
Option Code	ND***QHXA	-	027602-1120FA 200000-300000	027602-1420FA 200000-300000	027602-16224D 200000-300000	026602-19226F 200000-300000	026602-1B226F 200000-300000	
Piping Connections	Liquid (Flare)	Ø,mm	6.35	6.35	6.35	6.35	6.35	
		Ø,inch	1/4"	1/4"	1/4"	1/4"	1/4"	
	Gas (Flare)	Ø,mm	12.70	12.70	12.70	12.70	12.70	
		Ø,inch	1/2"	1/2"	1/2"	1/2"	1/2"	
	Drain (Quick Lock)	Ø,mm	ID 18 hose	ID 18 hose	ID 18 hose	ID 18 hose	ID 18 hose	
		Ø,inch	-	-	-	-	-	
Weight	Net Weight		kg	9	9	9	13.0	13.0
	Shipping Weight		kg	11	11	11	16.0	16.0
Dimensions	Net Dimensions (WxHxD)		mm	825x285x189	825x285x189	825x285x189	1,099x315x217	1,099x315x217
			inch	32.5x11.2x7.4	32.5x11.2x7.4	32.5x11.2x7.4	43.3x12.4x8.5	43.3x12.4x8.5
	Shipping Dimensions (WxHxD)		mm	900x349x252	900x349x252	900x349x252	1,137x377x299	1,137x377x299
			inch	35.4x13.7x10	35.4x13.7x10	35.4x13.7x10	44.8x14.8x11.8	44.8x14.8x11.8

Indoor Unit(cont.)**Wall Mounted type_Neo forte with EEV(cont.)**

Model			ND020QHXA	ND032QHXA	ND040QHXA	ND052QHXA	ND060QHXA	
Functions	Auto Restart	-	O	O	O	O	O	
	Auto Swing	-	O	O	O	O	O	
	Group/Individual Control	-	O	O	O	O	O	
	External Contact Control	-	O	O	O	O	O	
	Trouble Shooting by LED	-	O	O	O	O	O	
Standard Accessories	Installation Manual	-	O	O	O	O	O	
	Operation Manual	-	O	O	O	O	O	
	Pattern Sheet for Installation	-	X	X	X	X	X	
	Flexible Drain Hose	-	O	O	O	O	O	
	Filter / Safety Grille	-	Filter (Washable)	Filter (Washable)	Filter (Washable)	Filter (Washable)	Filter (Washable)	
Optional Accessories	Wireless Remote Controller	AVXWNH***CE	-	MR-BH01U	MR-BH01U	MR-BH01U	MR-BH01U	MR-BH01U
		ND***NHXA	-	MR-BH01	MR-BH01	MR-BH01	MR-BH01	MR-BH01
	Wired Remote Controller	Simplified	-	MWR-SH00	MWR-SH00	MWR-SH00	MWR-SH00	MWR-SH00
		Multi Function	-	MWR-WE00	MWR-WE00	MWR-WE00	MWR-WE00	MWR-WE00
		Premium	-	MWR-WS01	MWR-WS01	MWR-WS01	MWR-WS01	MWR-WS01
	External Contact Interface Module	-	MIM-B14	MIM-B14	MIM-B14	MIM-B14	MIM-B14	



*1) Mode

- HP : Heat Pump

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

Indoor Unit(cont.)

■ Ceiling type

Model			AVXTFH056E*	AVXTFH071E*	
Power Supply		øV/Hz	1/220~240/50	1/220~240/50	
Mode*1)			HP / HR	HP / HR	
Performance	Capacity	Cooling*2)	kW	5.6	7.1
			Btu/h	19,100	24,200
	Heating*3)	kW	6.3	8.0	
		Btu/h	21,400	27,200	
	Condensate (with High fan speed)		Liters/h	2.87	2.87
Power	Input	W	72	120	
	Running Current	A	0.33	0.6	
Sound Level	Sound Pressure (High/Low)*4)	dB(A)	36 / 32	36 / 32	
Fan	Type	-	Sirocco Fan	Sirocco Fan	
	Motor	Model	-	YSK140-60-4B	YSK140-60-4B
		Type	-	Non Feedback SSR	Non Feedback SSR
		Output	W	*5)	*5)
Airflow Rate	Cooling (High)	m ³ /min	16.5	16.5	
	Heating (High)	m ³ /min	20.0	20.0	
Refrigerant	Type	-	R410A	R410A	
	Control Method	-	EEV	EEV	
Temperature Control		-	Micom&Thermistors	Micom&Thermistors	
Safety Devices		-	Fuse	Fuse	
Piping Connections	Liquid (Flare)	ø, mm	9.52	9.52	
	Gas (Flare)	ø, mm	15.88	15.88	
	Drain	ø, mm	VP25 (OD 32,ID 25)	VP25 (OD 32,ID 25)	
Weight	Net Weight	kg	31.0	31.0	
	Shipping Weight	kg	39.0	39.0	
Dimensions	Net Dimensions (W x H x D)	mm	1,100x199x600	1,100x199x600	
	Shipping Dimensions (W x H x D)	mm	1,330x330x730	1,330x330x730	
Functions	Auto Restart	-	O	O	
	Auto Swing	-	X	X	
	Group/Individual Control	-	O	O	
	External Contact Control	-	O	O	
	Trouble Shooting by LED	-	X	X	
Standard Accessories	Installation Manual	-	O	O	
	Operation Manual	-	O	O	
	Pattern Sheet for Installation	-	X	X	
	Flexible Drain Hose	-	O	O	
	Filter / Safety Grille	-	Filter (Washable)	Filter (Washable)	
Optional Accessories	Wireless Remote Controller	-	MRK-A01	MRK-A01	
	Wired Remote Controller	Simplified	-	MWR-TH01	MWR-TH01
		Standard	-	MWR-WS00	MWR-WS00
		Premium	-	MIM-B14	MIM-B14
	External Contact Interface Module	-	MDP-E075SEE	MDP-E075SEE1	



*1) Mode

- HP : Heat Pump, HR : Heat Recovery

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB, Equivalent refrigerant piping : 7.5m(24.6ft), Level differences : 0m

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB

- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB, Equivalent refrigerant piping : 7.5m(24.6ft), Level differences : 0m

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

*5) Specifications may be subject to change without prior notice for product improvement.

2-2-2 Outdoor Unit

■ RVXVHT075/100/125FE, RD075/100/125VHXFA, RD075/100/125VRXFA

Model			RVXVHT075FE/RD075VHXFA/ RD075VRXFA		RVXVHT100FE/RD100VHXFA/ RD100VRXFA		RVXVHT125FE/RD125VHXFA/ RD125VRXFA					
Power Supply		Ø,V,Hz	3,208~230,60		3,208~230,60		3,208~230,60					
Mode *1)		-	HP		HP		HP					
Performance	Horse Power		HP		7.5		10.0		12.5			
	Capacity	Cooling *2)	kW		21.1		28.1		35.2			
			Btu/h		72,000		96,000		120,000			
		Heating *3)	kW		23.7		31.7		39.6			
Btu/h			81,000		108,000		135,000					
Power	Nominal input	Cooling	kW		5.50		7.50		10.70			
		Heating	kW		5.15		7.08		10.09			
	Circuit Breaker (MCCB/ELB)		A	40		50		60				
COP	Cooling		-		3.84		3.75		3.29			
	Heating		-		4.61		4.47		3.92			
Compressor	Model		-		ZPJ72KCE-TF5-496	ZPI61KCE-TF5-496	ZPJ72KCE-TF5-496	ZPI61KCE-TF5-496	ZPJ83KCE-TF5-496	ZPI83KCE-TF5-496		
	Type		-		Digital Scroll	Fixed Scroll	Digital Scroll	Fixed Scroll	Digital Scroll	Fixed Scroll		
	Number		EA		1		1		1			
	Piston Displacement		cc/Rev		67.1		58.1		67.1		58.1	
	Output		kW		6.94		5.83		6.94		5.83	
	Lubricant	Type	-									
Charging		cc	1,685		1,685		1,685		1,685			
Fan	Type/Control		-		Propeller/BLDC		Propeller/BLDC		Propeller/BLDC			
	Motor Output		W		630		630		630			
	Airflow Rate		m ³ /min		170		170		180			
			CFM		6,004		6,004		6,357			
	External Static Pressure	Max.	mmAq		8		8		8			
Pa			78.5		78.5		78.5					
Safety Devices	Mechanical Type		-		High Pressure Switch		High Pressure Switch		High Pressure Switch			
			-		Crank Case Heater		Crank Case Heater		Crank Case Heater			
			-		Fuse for PCB		Fuse for PCB		Fuse for PCB			
	Electronic Type		-		Over Voltage Protection		Over Voltage Protection		Over Voltage Protection			
			-		Current Transformer		Current Transformer		Current Transformer			
-		Fan Over Heat/Current Protector		Fan Over Heat/Current Protector		Fan Over Heat/Current Protector		Fan Over Heat/Current Protector				
Piping Connections	Liquid	Ø,mm		9.52		9.52		12.70				
		Ø,inch		3/8"		3/8"		1/2"				
	Gas	Ø,mm		19.05		22.23		28.58				
		Ø,inch		3/4"		7/8"		1 1/8"				
	Oil (Flare)		Ø,mm		-		-		-			
			Ø,inch		-		-		-			
	Installation Limitation	Max. Length	m		200		200		200			
ft			656		656		656					
Max. Height		m		50		50		50				
		ft		164		164		164				
Refrigerant	Type		-		R410A		R410A		R410A			
	Factory Charging		kg		6.5		7.5		9.0			
			lbs		14.4		16.5		19.8			
Sound *4)	Sound Pressure		dB(A)		57		58		60			
Set Size	Net Weight		kg		240		240		280			
			lbs		529		529		617			
	Shipping Weight		kg		253		253		297			
			lbs		558		558		655			
	Net Dimensions (WxHxD)		mm		880×1,723×765		880×1,723×765		1,200×1,723×765			
			inch		34.6×67.8×30.1		34.6×67.8×30.1		47.2×67.8×30.1			
Shipping Dimensions (WxHxD)		mm		948×1,888×832		948×1,888×832		1,268×1,888×832				
		inch		37.3×74.3×32.8		37.3×74.3×32.8		50×74.3×32.8				

Outdoor Unit(cont.)

RVXVHT075/100/125FE(cont.)

Model			RVXVHT075FE/RD075VHXFA/ RD075VRXFA	RVXVHT100FE/RD100VHXFA/ RD100VRXFA	RVXVHT125FE/RD125VHXFA/ RD125VRXFA
Operating Temp. Range	Cooling	°C	-5 ~ 43	-5 ~ 43	-5 ~ 43
		°F	23~109	23~109	23~109
	Heating	°C	-20 ~ 24	-20 ~ 24	-20 ~ 24
		°F	-4~75	-4~75	-4~75
Standard Accessories		-	Installation Manual	Installation Manual	Installation Manual
		-	Drain Plug	Drain Plug	Drain Plug



- *1) Mode
- HP : Heat Pump
- *2) Nominal cooling capacities are based on;
- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB
- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB
- *3) Nominal heating capacities are based on;
- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB
- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB
- *4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.
- *5) Specifications may be subject to change without prior notice for product improvement.

Outdoor Unit(cont.)

■ RD040/050MHXCA

Model			RD040MHXCA	RD050MHXCA		
Power Supply			1/208~230/60	1/208~230/60		
Mode			HP	HP		
Performance	Horse Power		HP	4	5	
			kW	11.2	14.0	
	Capacity	Cooling	Btu/h	36,000	48,000	
		Heating	kW	12.5	16.0	
		Btu/h	40,000	54,000		
Power	Nominal input	Cooling	kW	3.0	4.5	
		Heating	kW	3.4	4.2	
	Circuit Breaker (MCCB/ELB)	A	40	40		
EER		Cooling	-	9.6	9.0	
SEER		-	13.2	13.1		
HSPF		-	7.85	7.9		
Compressor	Model		-	UG5T360FUCEKSS	UG5T450FUCEXSS	
	Type		-	Twin BLDC	Twin BLDC	
	Number		EA	1	1	
	Piston Displacement		cc/Rev	-	-	
	Out put		kW	-	-	
	Lubricant	Type	-	-	-	
Charging		cc	1,300	1,300		
Fan	Type/Control		-	Propeller/BLDC	Propeller/BLDC	
	Motor Output		W	130	130	
	Airflow Rate(C/H)		m ³ /min	97/102	97/102	
	External Static Pressure	Max.	mmAq	-	-	
Pa			-	-		
Piping Connections	Liquid		ø, mm	9.52	9.52	
			ø, inch	3/8"	3/8"	
	Gas		ø, mm	15.88	15.88	
			ø, inch	5/8"	5/8"	
	Oil (Flare)			ø, mm	-	-
			ø, inch	-	-	
	Installation Limitation	Max. Length	m	70	70	
			ft	229 11/16	229 11/16	
	Max. Height	m	30	30		
		ft	98 7/16	98 7/16		
Refrigerant	Type		-	R410A	R410A	
	Factory Charging		kg	4.0	4.0	
Refrigerant charging	3/8"	(Charge according to liquid piping)	g/m	50	50	
			oz/ft	0.54	0.54	
	1/4"	(Charge according to liquid piping)	g/m	20	20	
			oz/ft	0.215	0.215	
Set Size	Net Weight		kg	108	108	
			lbs	238.1	238.1	
	Shipping Weight		kg	116	116	
			lbs	255.7	255.7	
	Net Dimensions (WxHxD)		mm	1,128x932x375	1,128x932x375	
			inch	44 13/32x36 11/16x14 3/4	44 13/32x36 11/16x14 3/4	
Shipping Dimensions (WxHxD)		mm	1,286x1,091x472	1,286x1,091x472		
		inch	50 5/8x42 15/16x18 19/32	50 5/8x42 15/16x18 19/32		
Operating Temp. Range	Cooling		°C	-5~43	-5~43	
			°F	23~109.4	23~109.4	
	Heating		°C	-20~24	-20~24	
			°F	-4~75.2	-4~75.2	
Standard Accessories			-	Installation Manual	Installation Manual	
			-	Drain Plug	Drain Plug	



*1) Mode

- HP : Heat Pump

*2) Nominal cooling capacities are based on;

- Indoor temperature : 81°F/27°C DB, 66°F/19°C WB

- Outdoor temperature : 95°F/35°C DB, 75°F/24°C WB

*3) Nominal heating capacities are based on;

- Indoor temperature : 70°F/20°C DB, 60°F/15°C WB


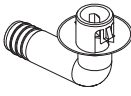








- Outdoor temperature : 47°F/7°C DB, 43°F/6°C WB

*4) Sound pressure was acquired in a dead room. Thus actual noise level may be different depending on the installation conditions.

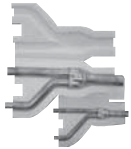





*5) Specifications may be subject to change without prior notice for product improvement.

2-3 Accessory and Option Specifications

2-3-1 Accessories

Item	Descriptions	Code-No.	Q'TY	Remark
	Installation Manual	DB98-31180A (RVXVHT***FE, RD***VHXFA)	1	Outdoor Unit
		DB98-32073A (RD***MHXCA)		
	Drain Plug	DB67-20011A (RVXVHT***FE, RD***VHXFA)	2	Outdoor Unit
		DB67-00477A (RD***MHXCA)		
	Drain Cap	DB63-10355C	2	Outdoor Unit
	Slim 1 way cassette panel	PSSMA	-	ND***1*** AVXCSH*** Series
	4 way cassette panel	P4SMA	-	ND***4*** AVXC4H*** Series
	mini 4 way cassette panel	PMSMAA	-	ND***M*** AVXCMH*** Series
	Global 4 way cassette pane	PC4NUSKA	-	ND***4H***
	Drain Pump	MDP-E075SEE	-	ND020~072L*** AVXDSH020~072C* Series
		MDP-E075SEE1	-	ND100~145L*** AVXDSH100~145C* Series
		MDP-M075SGU1	-	ND100~100S*** AVXDUH100~110C* Series
		MDP-M075SGU2	-	ND145S*** AVXDUH145C* Series
		MDP-N047SNC1	-	ND220/280* Series
	Outdoor Joint	MXJ-T3819*	-	Below 48 HP
	Header Joint	MXJ-HA2512*	-	Below 160MBH (for 4 rooms)
		MXJ-HA3115*	-	160~240MBH (for 8 rooms)
		MXJ-HA3819*	-	Over 240MBH (for 8 rooms)

Accessories (cont.)







Item	Descriptions	Code-No.	Q'TY	Remark
	Y-Joint	MXJ-YA1509*	-	Below 51MBH
		MXJ-YA2512*	-	51~138MBH
		MXJ-YA2812*	-	138~160MBH
		MXJ-YA2815*	-	160~240MBH
		MXJ-YA3319*	-	240~336MBH
		MXJ-YA3819*	-	336~468MBH
		MXJ-YA4422*	-	Over 468MBH
	MCU (Mode Control Unit)	MCU-X6NEF1	-	For 6 rooms
		MCU-X4NEF1	-	For 4 rooms
		MCU-X4VEF1	-	For 4 rooms (EEV included) Below 4.5MBH
		MCU-X4WEF1	-	For 4 rooms (EEV included) Over 5.6MBH
	Single EEV Kit	MEV-A13SA	-	Below 12MBH
		MEV-A16SA	-	Over 18~24MBH
	2 Room EEV Kit	MXD-A13K116A	-	Below 12MBH(1 unit) +18MBH~24MBH(1 unit)
		MXD-A13K200A	-	Below 12MBH(2 units)
		MXD-A16K200A	-	18MBH~24MBH(2 units)
		MXD-A22K200A	-	Over 24MBH(2 units)
	3 Room EEV Kit	MXD-A13K216A	-	Below 12MBH(2 units) +18MBH~24MBH(1 unit)
		MXD-A13K300A	-	Below 12MBH(3 units)
		MXD-A16K213A	-	Below 12MBH(1 unit) +18MBH~24MBH(2 units)
		MXD-A16K300A	-	18MBH~24MBH(3 units)
	Wireless Signal Receiver Kit	MRK-A00	-	Option
	Receiver Wire	MRW-10A	-	Option

Accessories (cont.)

Item	Descriptions	Code-No.	Q'TY	Remark
	Wireless Remote Controller	MR-BH01U	-	Option
	Wired Remote Controller	MWR-WS01	-	Option
		MWR-SH00	-	Option
	485 Interface Module	MIM-B13A	-	Option
	Ket Tag Interface Module	MIM-B02	-	Option
	External Contact Interface Module	MIM-B14	-	Option
	SIM Interface Module	MIM-B12	-	Option
	Centralized Controller	MCM-A202A	-	Option
	Operation Selection Switch	MCM-C200	-	Option
	DMS	MIM-D00	-	Option
	S-NET 3	MST-P3P	-	Option
	S-NET mini	MST-S3W	-	Option


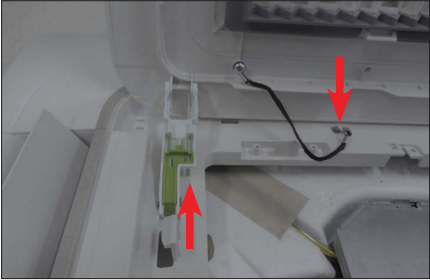
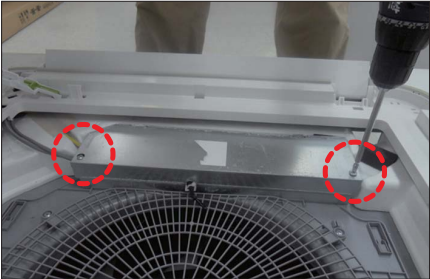
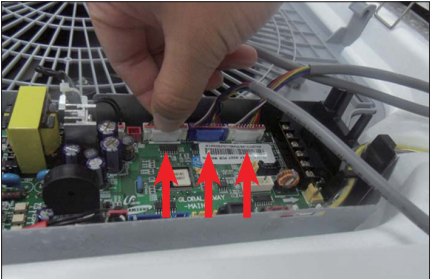

3. Disassembly and Reassembly


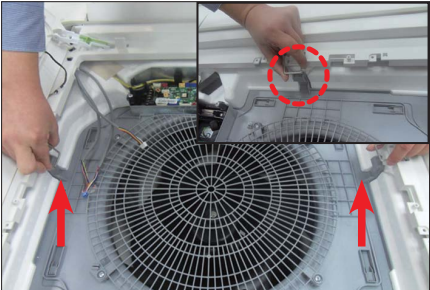
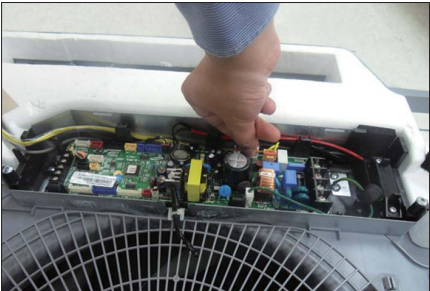
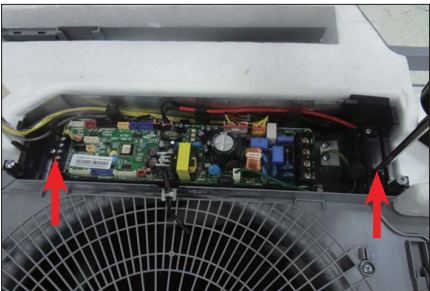
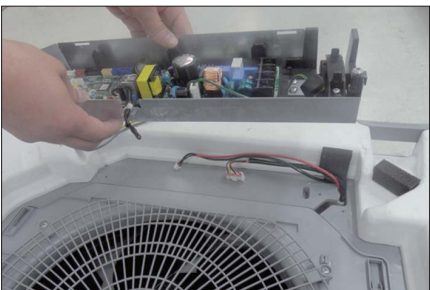
■ Necessary Tools

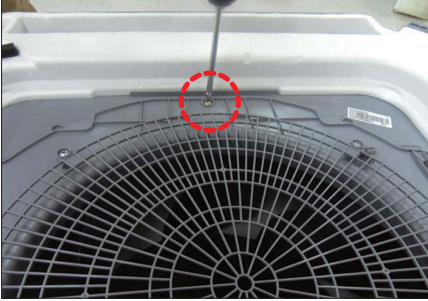
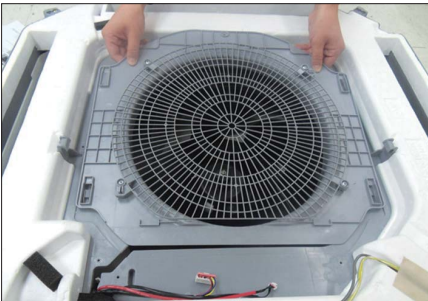
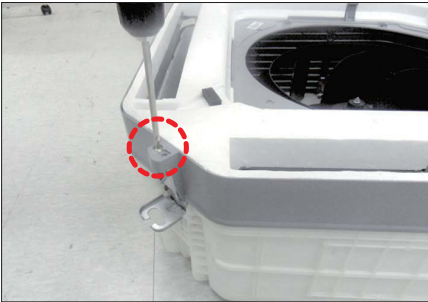

Item	Remark
+Screw Driver	
Monkey Spanner	
-Screw Driver	
Nipper	
Electric Motion Driver	
L-Wrench	


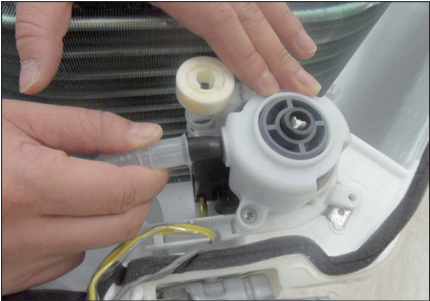
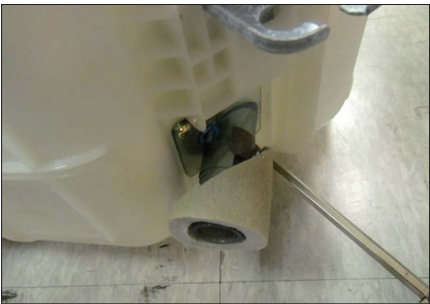
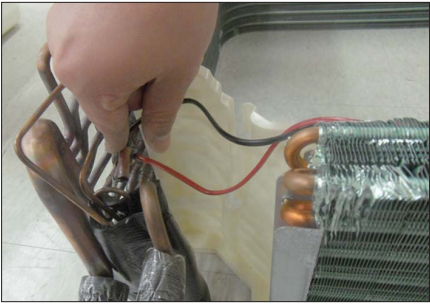
3-1 Indoor Unit

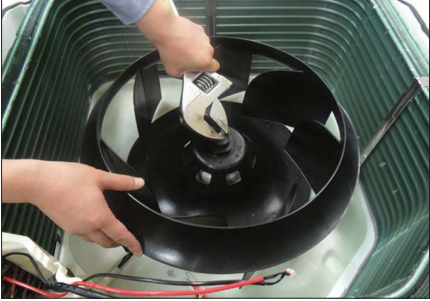
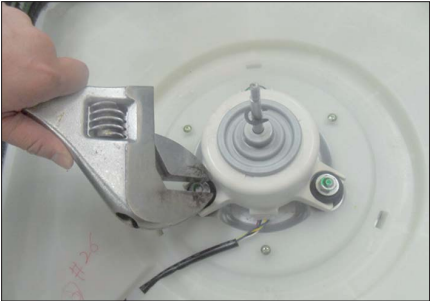



■ Global 4way Cassette type

No	Parts	Procedure	Remark
1	Panel	<ol style="list-style-type: none"> 1) Push the handles on both sides of the Samsung logo towards the product's interior to open the Grille. 2) Push up the green knob in the Open direction, and detach the white link from the panel. Detach the safety clip. 3) Remove the 2 fixed screws to remove the Control-Box Cover. (Use +Screw Driver) 4) Remove the Remocon-Receiver and Blade Connector Wire from the PBA. (3EA) 5) Push the 4 panel corners and cover downwards to remove it. 	    

No	Parts	Procedure	Remark
		<p>6) Disassemble the bolts that are assembled with the indoor unit at the 4 panel corners.</p> <p>7) Press the Steel Hangers at both sides of the panel inwards, and rotate them 90 degrees to remove it from the indoor unit's Hock. Remove the panel from the indoor unit.</p>	 
2	Control-Box	<p>1) Disconnect the Connector Wire that is connected to the indoor unit's PBA from the PBA.</p> <p>2) Unscrew the 2 fixed screws on both sides of the Control Box, and disassemble the Control Box from the indoor unit. (Use +Screw Driver)</p>	  

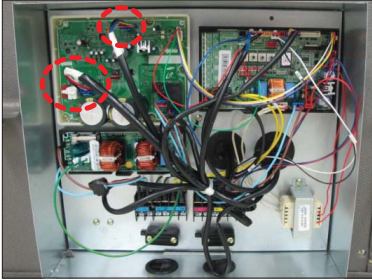
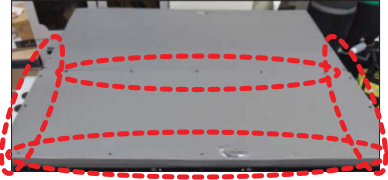
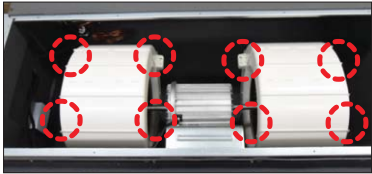
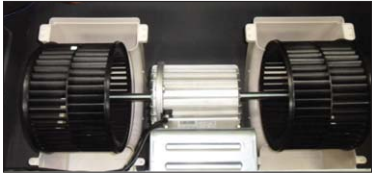
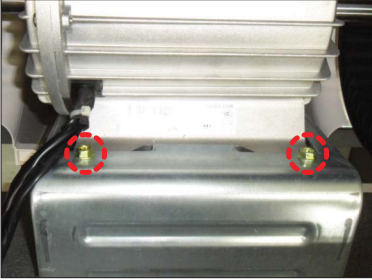
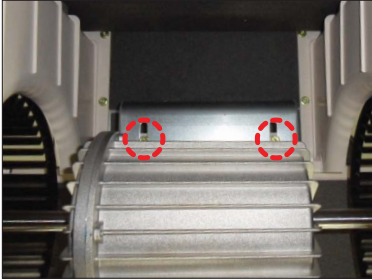
No	Parts	Procedure	Remark
3	Bell-Mouth	<p>1) Unscrew the screw fixed on the Bell-Mouth. (Use +Screw Driver)</p> <p>2) Push the Bell-Mouth in the direction opposite to where it's installed on the Control-Box to remove it.</p>	 
4	Drain Pan	<p>1) Unscrew the screws on the 4 corners of the indoor unit. (Use +Screw Driver)</p> <p>2) Remove the Drain Pan from the indoor unit</p>	 

No	Parts	Procedure	Remark
5	Bell-Mouth	<p>1) Remove the 2 fixed screws and disconnect the white drainage hose from the Drain Pump. (Use +Screw Driver)</p> <p>2) Remove the 2 screws and take the Drain-Hose out from the indoor unit to disassemble the transparent Drain-Hose fixed on the side of the indoor unit. (Use +Screw Driver)</p>	  
6	Evap. Temperature Sensor	<p>1) Use your hand to remove the temperature sensor attached to the Evap Pipe along with the fixing clip.</p>	


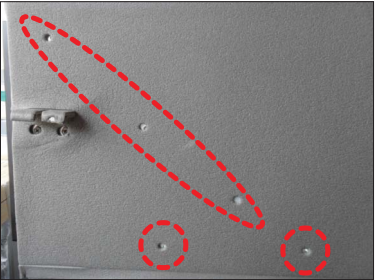
No	Parts	Procedure	Remark
7	Fan & Motor	<p>1) Turn the hexangular nut attached to the top of the Fan counterclockwise to remove it. Take the Fan out of the Motor.</p> <p>2) Turn the three hexangular nuts on the Motor counterclockwise to remove the nuts. Take the Motor Wires attached to these three locations out with your hands prior to removing the Motor.</p>	  
7	Evap. Temperature Sensor	<p>1) Remove the screws of the 2 Steel Holder Evaps that are used to fix the Heat Exchanger, and then remove it. (Use +Screw Driver)</p> <p>2) Remove the 2 fixing screws of the Partition Evap at the Heat Exchanger's In/Out Pipe. (Use +Screw Driver)</p>	 

No	Parts	Procedure	Remark
		<p>3) Remove the screw of the Cover Pipe that is used to fix the In/Out Pipe. Remove the In/Out Pipe. (Use +Screw Driver)</p> <p>4) Remove the Heat Exchanger from the indoor unit's cabinet.</p>	  

■ BIG DUCT

No	Parts	Procedure	Remark
1	MOTOR & BLOWER	<p>1) Detach the motor connectors from the PCB.</p> <p>2) Unscrew 16 screws and detach Cabinet-Base Blower. (Use+Screw Driver)</p> <p>3) Unscrew 8 screws and detach Case-Blower. (Use +Screw Driver)</p> <p>4) Unscrew 4 bolts and separate Motor & blower from Bracket-Motor. (Use +Screw Driver)</p>	     


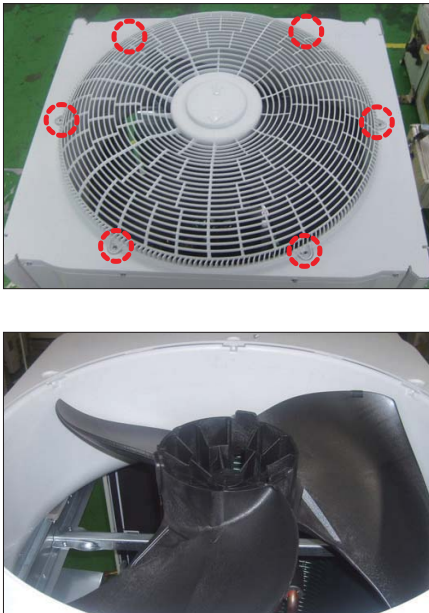
No	Parts	Procedure	Remark
		5) Unscrew bolt and Separate Blower from the motor. (Use +Screw Driver)	
2	EVAPORATOR & DRAIN-PAN	1) Detach EEV and Sensor connectors from the PCB. (Use +Screw Driver) 2) Unscrew 8 screws and Detach Cover-Pipe. (Use +Screw Driver) 3) Unscrew 31 screws and detach Cabinet-Base Blower and Cabinet-Base Drain. (Use +Screw Driver)	   

No	Parts	Procedure	Remark
		<p>4) Unscrew 10 screws and detach Drain-Pan from the indoor unit. (Use +Screw Driver)</p> <p>5) Separate Evaporator from the indoor unit.</p>	  

3-2 Outdoor Unit

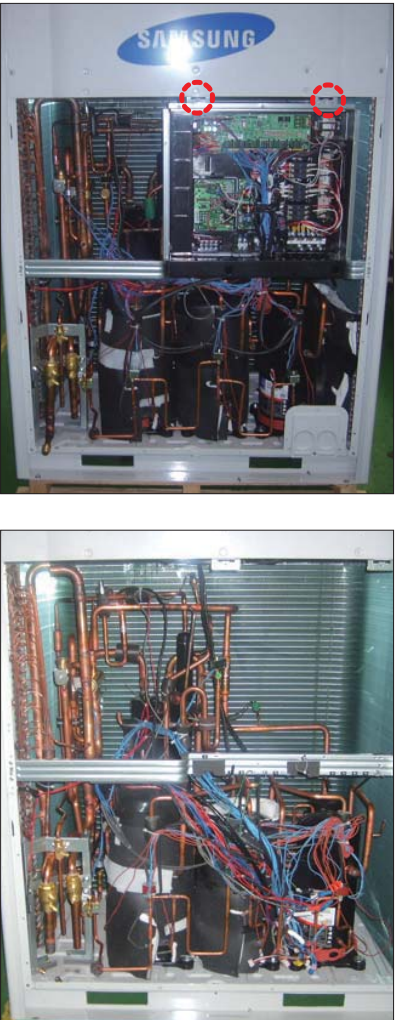
■ RVXVHT075/100FE, RD075/100VHXFA, RD075/100/120VRXFA

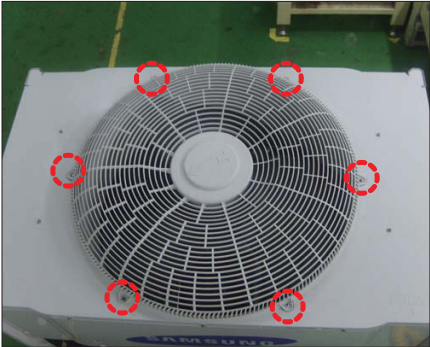
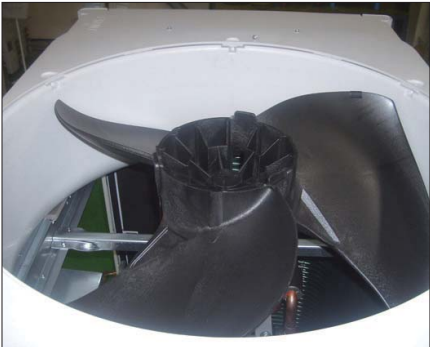
No	Parts	Procedure	Remark
1	Common In	<p>1) Remove fixing screw from the Cabinet. (Use +Screw Driver)</p> <p>2) Separate the Cabinet from the Outdoor Unit.</p>	

No	Parts	Procedure	Remark
		<p>2) Separate the Electrical Component Box from the Outdoor Unit.</p>	
2	<p>Motor & Fan</p>	<p>1) Remove fixing screw from the Bell Mouth. (Use +Screw Driver)</p> <p>2) Separate the Bell Mouth.</p> <p>3) Remove fixing bolt from the Fan.</p> <p>4) Separate the Fan from the Outdoor Unit.</p> <p>5) Remove fixing screw and after removing screws, separate the Motor.</p>	



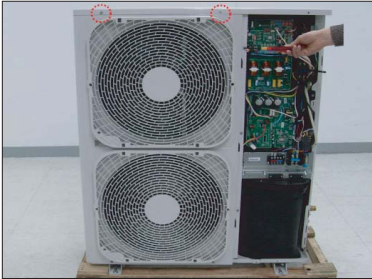
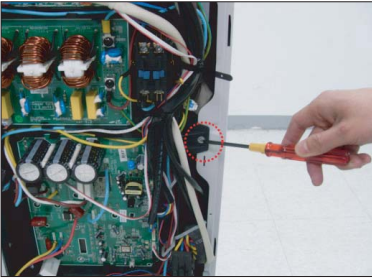

■ RVXVHT125FE, RD125VHXFA, RD125VRXFA

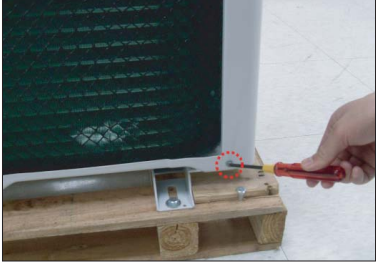
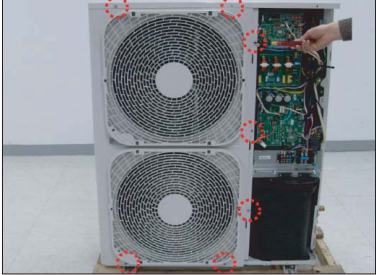

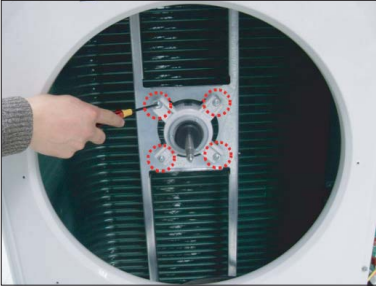
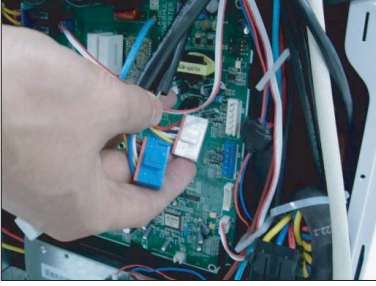
No	Parts	Procedure	Remark
1	Common In	<p>1) Remove fixing screw from the Cabinet. (Use +Screw Driver)</p> <p>2) Separate the Cabinet from the Outdoor Unit.</p>	


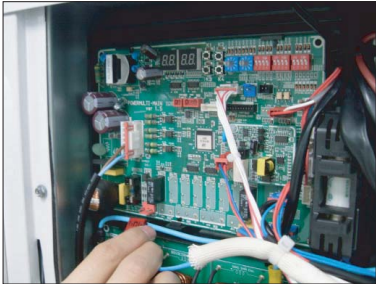
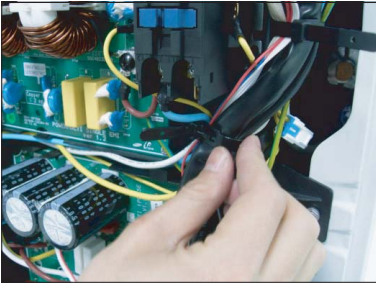
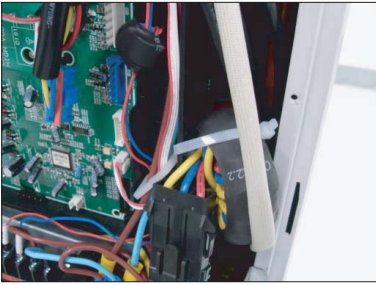

No	Parts	Procedure	Remark
		<p>2) Separate the Electrical Component Box from the Outdoor Unit.</p>	 <p>The top photograph shows the interior of a Samsung outdoor unit with the electrical component box partially detached. Two red circles highlight the connection points between the box and the main unit. The bottom photograph shows the same unit after the electrical component box has been completely removed, revealing the internal wiring and components.</p>

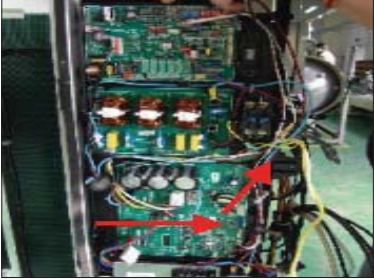
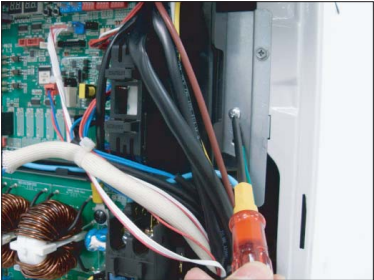



No	Parts	Procedure	Remark
2	Motor & Fan	<ol style="list-style-type: none">1) Remove fixing screw from the Bell Mouth. (Use +Screw Driver) 2) Separate the Bell Mouth.3) Remove fixing bolt from the Fan.4) Separate the Fan from the Outdoor Unit.5) Remove fixing screw and after removing screws, separate the Motor.	 


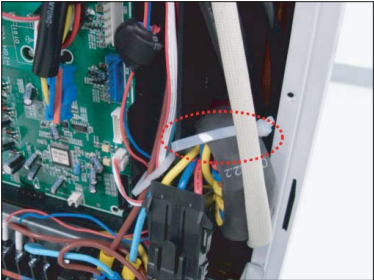
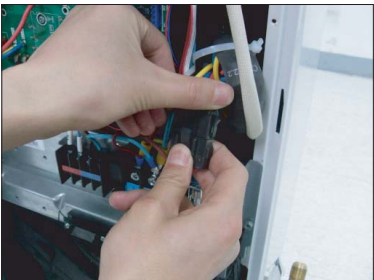


■ RD040/050MHXCA

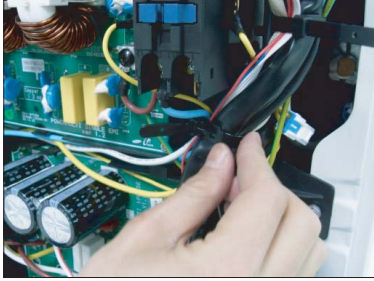


No	Parts	Procedure	Remark
1	General tasks	<ol style="list-style-type: none"> 1) Stop operating the machine. Disassemble the main power cable. 2) Unfasten the two fixing bolts and remove the right-front board. 3) Unfasten the eight fixing bolts and remove the upper cover. (Use +Screw Driver) 4) Unfasten the three bolts fixing the electrical control box to the right rear plate. (Use +Screw Driver) 5) Unfasten the twelve bolts and remove the right rear plate. (Use +Screw Driver) 	    

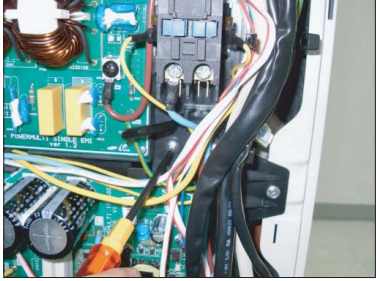

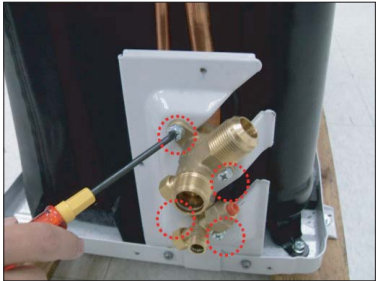
No	Parts	Procedure	Remark
		<p>6) Unfasten the two bolts and disassemble the column. (Use +Screw Driver)</p> <p>7) Unfasten the eleven bolts and disassemble the front board. (Use +Screw Driver)</p>	 
2	Fan and electricity	<p>1) Unfasten the flange nut to remove the fan. (Refer to the right figure.) (Use Monkey Spanner.)</p> <p>2) Unfasten the four fixing bolts and remove the electrical machinery. (Use Monkey Spanner.)</p> <p>3) Disassemble the electrical cable. The white plug is for the upper part. The blue plug is for the lower part.</p>	  




No	Parts	Procedure	Remark
		<p>4) Unfasten the two fixing bolts to disassemble the electricity support. (Use +Screw Driver)</p>	
<p>3</p>	<p>Disassemble the electrical control box.</p>	<p>1) Disassemble the parts for the electrical control panel.</p> <p>2) Push the buckle to loosen the three black cable ties.</p> <p>3) Cut the white cable tie.</p> <p>4) Unfasten the two fixing bolts between the electrical control box and the central separation plate. (Use +Screw Driver)</p>	   

No	Parts	Procedure	Remark
		<p>5) Unfasten the two ground bolts.</p> <p>6) Lift the electrical control box and push it outward.</p>	 
4	Disassemble the electrical control box. (Inverter board)	<p>1) Disassemble the left-front board.</p> <p>2) Unfasten the one fixing bolt on the fixing board below the electrical control box and the left-rear board.</p> <p>3) Unfasten the one fixing bolt on the fixing board below the electrical control box and the central separation plate. (Use +Screw Driver)</p>	  

No	Parts	Procedure	Remark
		<p>4) Unfasten the two fixing bolts on the fixing board below the inverter control box and the electrical control box. (Use +Screw Driver)</p> <p>5) Use a wrench to cut the cable tie.</p> <p>6) Unplug the power cable for the compressor.</p> <p>7) Disassemble the fixing plate below the electrical control box.</p> <p>8) Unfasten the fixing bolt for the inverter control box and the right-rear board. (Use +Screw Driver)</p>	    

No	Parts	Procedure	Remark
		<p>9) Push the fixing buckle with your thumb to disassemble the black cable tie of the control box.</p> <p>10) Use a knife to cut off the cable tie. Unfasten the two bolts fixing the harness.</p> <p>11) Unfasten the two bolts in the lower area of the metering device and disassemble the harness. (Use +Screw Driver)</p> <p>12) Disassemble the plug for the reactor connection cable.</p> <p>13) Unfasten the one bolt fixing the inverter control box and the central separation board. (Use +Screw Driver)</p>	    

No	Parts	Procedure	Remark
		<p>14) Unfasten the four bolts fixing the main control box and the inverter control box. (Use +Screw Driver)</p> <p>15) Pull out the inverter control box to separate it.</p> <p>16) Finish disassembling the control box.</p>	   
5	Heat exchanger and compressor	<ol style="list-style-type: none"> 1) Discharge all the coolants. 2) Unfasten the fixing bolts of the blocking valve. (Use +Screw Driver) 3) Using a welding machine, disassemble the inlet and outlet pipes. 4) Disassemble the heat exchanger. 	

No	Parts	Procedure	Remark
		<p>5) Remove the noise protection sponge in the external layer.</p> <p>6) Remove the noise protection sponge in the internal layer.</p> <p>7) Unfasten the bolts fixing the electrical box for the compressor. (Use Monkey Spanner.)</p> <p>8) Disassemble the power cable for the compressor.</p> <p>9) Unfasten the three bolts on the compressor leg. (Use Monkey Spanner.)</p> <p>10) Disassemble the compressor.</p>	  


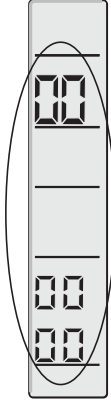

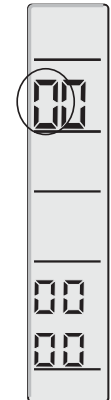

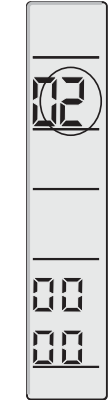
4. Troubleshooting







4-1 Setting Option Setup Method







4-1-1 PCB option code input method







4-1-1-1 example : 021E31142285

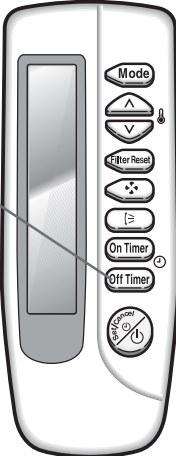



Be sure to input the option code suitable for the indoor unit by use of wireless remote controller after replacing the PCB of indoor unit. Follow to do the following 15 steps sequentially.

Operation method	Applicable button	Indicating state
<p>* Step 1</p> <p><u>Method)</u></p> <ol style="list-style-type: none"> ① Remove the battery of remote controller. ② Push the temperature adjustment button simultaneously. ③ Insert the battery. <p><u>Result)</u></p> <p>When the display of remote controller is indicated as shown in the right, then go to the step 2.</p>		
<p>* Step 2</p> <p><u>Method)</u></p> <p>If the first digit of remote controller shows "0", go to the step 3.</p> <ul style="list-style-type: none"> • If it shows 1, press the Mode button one time to change it into 0 and then go to step 3. 		
<p>* Step 3</p> <p><u>Method)</u></p> <p>Input the second digit of option code by pressing the temperature adjustment button(up).</p> <p>example) 0<u>2</u>1E31142285</p> <p><u>Result)</u></p> <p>If 2 is displayed, go to the step 4 (whenever pressing the button, 1~9, A,B,C,D,E,F are lit in order.)</p>		

Operation method	Applicable button	Indicating state
<p>* Step 4</p> <p><u>Method)</u> Input the third digit of option code by pressing the temperature adjustment button(down). example) 02<u>1</u>E31142285</p> <p><u>Result)</u> If 1 is displayed, go to the step 5.</p>		
<p>* Step 5</p> <p><u>Method)</u> Input the fourth digit of option code by pressing the fan speed adjustment button.</p> <p>example) 021<u>E</u>31142285</p> <p><u>Result)</u> If E displays, go to step 6.</p>		
<p>* Step 6</p> <p><u>Method)</u> Input the fifth digit of option code by pressing the On timer button.</p> <p>example) 021E<u>3</u>1142285</p> <p><u>Result)</u> If 3 displays, go to step 7.</p>		

Operation method	Applicable button	Indicating state
<p>* Step 7</p> <p><u>Method)</u> Input the sixth digit by pressing the Off timer button. _____ example) 021E31142285</p> <p><u>Result)</u> If 1 displays, go to step 8.</p>		
<p>* Step 8</p> <p><u>Method)</u> After completion up to step 7, pressing mode button. _____</p> <p>① 1~7 steps are saved internally. ② If the first number is 1 at the time, it is correct. So go to step 9. • If wanting to see the screen of 2~7 steps, press the mode button to make the first digit 0.</p>		
<p>* Step 9</p> <p><u>Method)</u> Input the eighth digit by pressing the temperature adjustment button(up). _____ example) 021E31142285</p> <p><u>Result)</u> If 4 displays, go to step 10.</p>		

Operation method	Applicable button	Indicating state
<p>* Step 10 <u>Method)</u> Input the ninth digit by pressing the temperature adjustment button(down). example) 021E3114<u>2</u>85</p> <p><u>Result)</u> If 2 displays, go to step 11.</p>		
<p>* Step 11 <u>Method)</u> Input the tenth digit by pressing fan speed adjustment button. example) 021E3114<u>2</u>85</p> <p><u>Result)</u> If 2 displays, go to step 12.</p>		
<p>* Step 12 <u>Method)</u> Input the 11st digit by pressing the On timer button. example) 021E311422<u>8</u>5</p> <p><u>Result)</u> If 8 displays, go to step 13.</p>		



Operation method	Applicable button	Indicating state
<p>* Step 13</p> <p><u>Method)</u> Input the 12th digit by pressing the Off timer button. example) 021E31142285</p> <p><u>Result)</u> If 5 displays, go to step 14.</p>		
<p>* Step 14</p> <p><u>Method)</u> Turn the remote controller toward the indoor unit and press the On/Off button, and if the "Ting" or "Tiring" sounds, the input of option is completed.</p> <ul style="list-style-type: none"> • If error displays, solve the problem with reference to the right side. 		<p>■ Error</p> <p>① If the On/Off, Timer and Fan indicator is flickering, the wrong option code is input. Put off the power of indoor unit and turn it on again and then input the option code again. If the same error occurs, it is the EEPROM is defective or not inserted. Replace the PCB.</p> <p>② If all of On/Off, Timer, Fan and Filter Sign indicator are flickering along with the "Tiring" sound, there is option code already input which are different from the current ones. Check the option code and press the button again if correct. Option code will be input.(Check the option code correctly. At the time, if the same error continues to occur, the option code is out of input range. Check the option code again and repeat the step 1~14.</p>
<p>* Step 15</p> <p><u>Method)</u> If the steps 1 to 14 are completed, remove the battery and insert it again to return to the original display of remote controller. (Operation mode/SET TEMP. /fan speed displays.)</p>	 <p>rear side</p>	

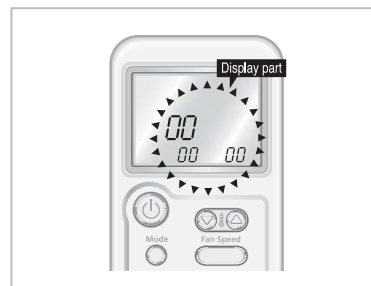
PCB option code input method(cont.)

4-1-1-2 example : 066064-170373

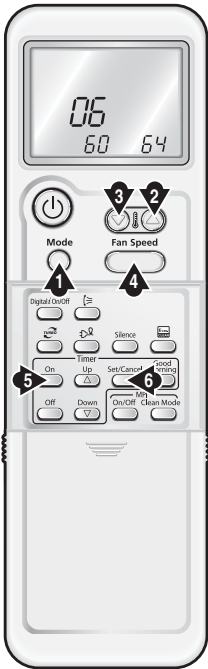
■ AVXWVH***C*/ND***V****









Step 1 : Enter the Option Setup mode.



- 1st Take out the batteries of remote control.
- 2nd Press the temperature  button simultaneously and insert the battery again.
- 3rd Make sure the remote display shown as .

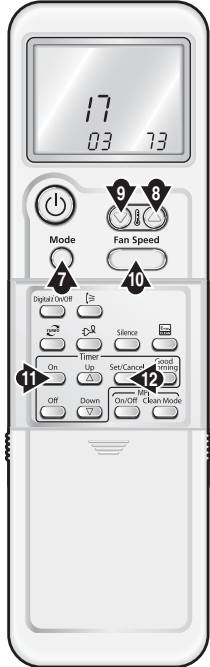




Step 2 : Enter the Option Setup mode and select your option according to the following procedure.











- 1 The default value is . Otherwise, push the  button to . Every time you push the button, the display panel reads *1* or *0* repeatedly.
- 2 Push the  button to set the display panel to *6*. Every time you push the button, the display panel reads *0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F* repeatedly.
- 3 Push the  button to set the display panel to *6*. Every time you push the button, the display panel reads *0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F* repeatedly.
- 4 Push the  button to set the display panel to *0*. Every time you push the button, the display panel reads *0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F* repeatedly.
- 5 Push the  button to set the display panel to *6*. Every time you push the button, the display panel reads *0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F* repeatedly.
- 6 Push the  button to set the display panel to *4*. Every time you push the button, the display panel reads *0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F* repeatedly.



* Setting is not required if you must  a value which has a  default.








* Setting is not required if you must  a value which has a  default.




- 7** Press  button, then the default value is  .
- 8** Push the  button to set the display panel to **7**.
Every time you push the button, the display panel reads **0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F** repeatedly.
- 9** Push the  button to set the display panel to **0**.
Every time you push the button, the display panel reads **0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F** repeatedly.
- 10** Push the  button to set the display panel to **3**.
Every time you push the button, the display panel reads **0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F** repeatedly.
- 11** Push the  button to set the display panel to **7**.
Every time you push the button, the display panel reads **0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F** repeatedly.
- 12** Push the  button to set the display panel to **3**.
Every time you push the button, the display panel reads **0 → 1 → 2 → 3 → ... 9 → A → b → c → d → E → F** repeatedly.

Step 3 : Upon completion of the selection, check you made right selections.


Press the Mode Selection key,  to set the display part to  and check the display part.

→ The display part shows   .
 

Press the Mode Selection key,  to set the display part to **7** and check the display part.

→ The display part shows   .
 

Step 4 : Pressing the ON/OFF button ()

When pressing the operation ON/OFF key with the direction of remote control for unit, the sound "Ding" or "Diriring" is heard and the OPERATION ICON() lamp of the display is flickering at the same time, then the input of option is completed. (If the diriring sound isn't heard, try again pressing the ON/OFF button.)

Step 5 : Unit operation test-run

First, Remove the battery from the remote control.

Second, Re-insert the battery into the remote control.

Third, Press ON/OFF key with the direction of remote control for set.

• Error Mode

1st If all lamps of indoor unit are flickering, plug out, plug in power plug again and press the ON/OFF key to retry.



2nd If the unit is not working properly or all lamps are continuously flickering after setting the option code, see if the correct option code is set up for its model.

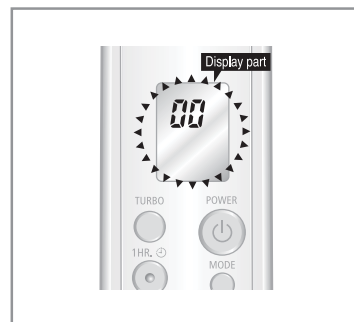
PCB option code input method(cont.)

4-1-1-3 example : 660157022E

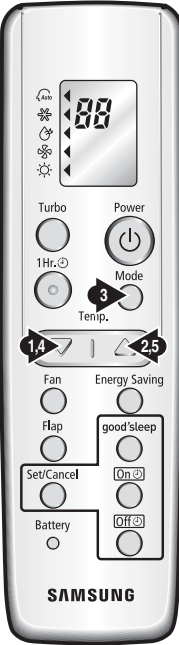










■ AVXWNH***C*/ND***N***

Step 1 : Enter the Option Setup mode.

- 1st Take out the batteries of remote control.
- 2nd Press the temperature  button simultaneously and insert the battery again.
- 3rd Make sure the remote display shown as 




Step 2 : Enter the Option Setup mode and select your option according to the following procedure.

	Feature	Display
	1 Setting Option SEG1. Push the  button to set the display panel to 5 . Every time you push the button, the display panel reads 0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F repeatedly.	
	2 Setting Option SEG2. Push the  button to set the display panel to 6 . Every time you push the button, the display panel reads 0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F repeatedly.	
	3 Change it into the set display of Option SEG3 and SEG4 with the  button.	
	4 Setting Option SEG3. Push the  button to set the display panel to 0 . Every time you push the button, the display panel reads 0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F repeatedly.	
	5 Setting Option SEG4. Push the  button to set the display panel to 1 . Every time you push the button, the display panel reads 0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F repeatedly.	

	Feature	Display
	<p>6</p> <p>Change it into the set display of Option SEG5 and SEG6 with the button.</p>	
	<p>7</p> <p>Setting Option SEG5. Push the button to set the display panel to 5. Every time you push the button, the display panel reads 0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F repeatedly.</p>	
	<p>8</p> <p>Setting Option SEG6. Push the button to set the display panel to 7. Every time you push the button, the display panel reads 0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F repeatedly.</p>	
	<p>9</p> <p>Change it into the set display of Option SEG7 and SEG8 with the button.</p>	
	<p>10</p> <p>Setting Option SEG7. Push the button to set the display panel to 0. Every time you push the button, the display panel reads 0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F repeatedly.</p>	
	<p>11</p> <p>Setting Option SEG8. Push the button to set the display panel to 2. Every time you push the button, the display panel reads 0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F repeatedly.</p>	
	<p>12</p> <p>Change it into the set display of Option SEG9 and SEG10 with the button.</p>	
	<p>13</p> <p>Setting Option SEG9. Push the button to set the display panel to 2. Every time you push the button, the display panel reads 0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F repeatedly.</p>	
	<p>14</p> <p>Setting Option SEG10. Push the button to set the display panel to E. Every time you push the button, the display panel reads 0 - 1 - 2 - 3 - ... - 9 - A - b - c - d - E - F repeatedly.</p>	

Step 3 : Upon completion of the selection, check you made right selections.

Whenever you press the  button, the set Option will be displayed.




Step 4 : Pressing the ON/OFF button ()

When pressing the operation ON/OFF key with the direction of remote controller for unit, the sound "Ding" is heard and the OPERATION LED lamp is flickering at the same time, then the input of option is completed. (If the "ding" sound isn't heard, try again pressing the ON/OFF button.)

Step 5 : Unit operation test-run

First, Remove the battery from the remote controller.

Second, Re-insert the battery into the remote controller.

Third, Press ON/OFF () key with the direction of remote controller for set.

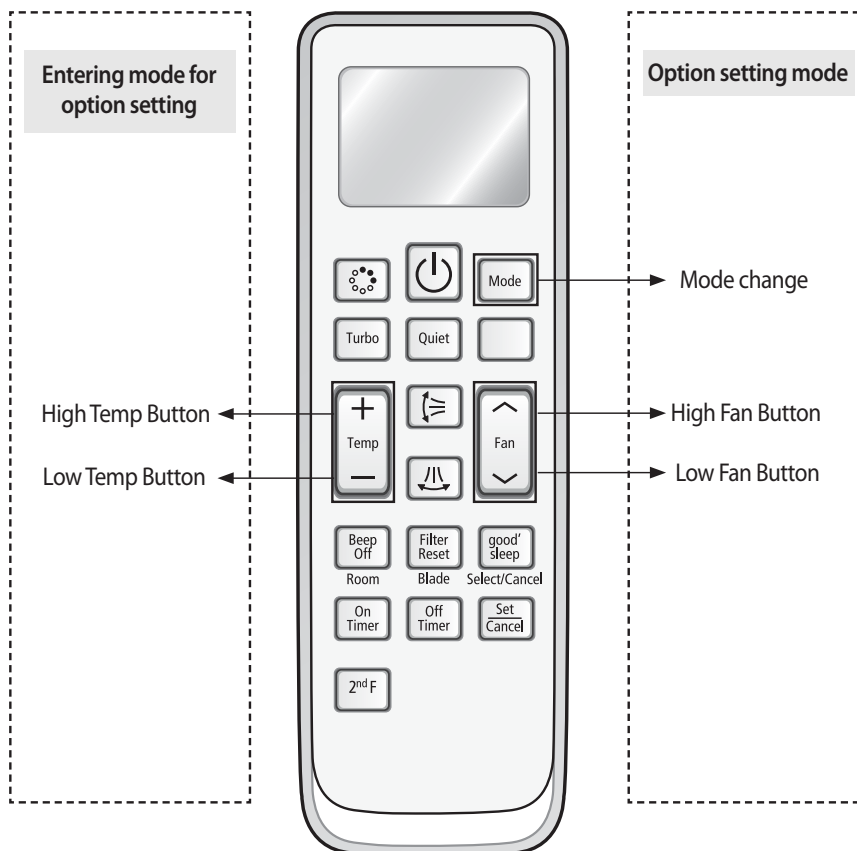
• Error Mode

- 1st If all lamps of indoor unit are flickering, Plug out, plug in power plug again and press ON/OFF key to retry.
- 2nd If the unit is not working properly or all lamps are continuously flickering after setting the option code, see if the correct option code is set up for its model.

4-1-2 Setting an indoor unit address and installation option

- ▶ Set the indoor unit address and installation option with remote controller option.
Set the each option separately since you cannot set the ADDRESS setting and indoor unit installation setting option at the same time. You need to set twice when setting indoor unit address and installation option.

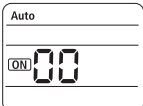
4-1-2-1 The procedure of option setting



Step 1. Entering mode to set option

1. Remove batteries from the remote controller.
2. Insert batteries and enter the option setting mode while pressing High Temp button and Low Temp button.



3.  Check if you have entered the option setting status.

Step 2. The procedure of option setting

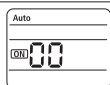
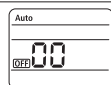
After entering the option setting status, select the option as listed below.






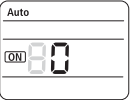

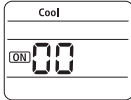




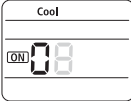
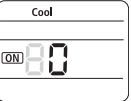

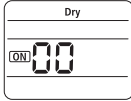




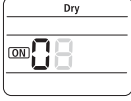
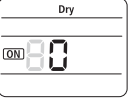

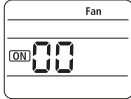




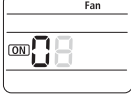
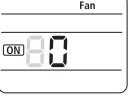

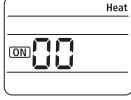




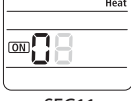
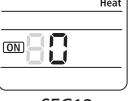

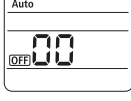




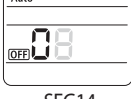
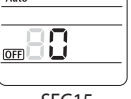



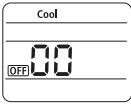




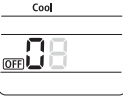
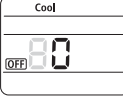

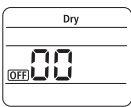




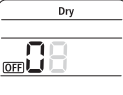
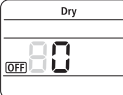

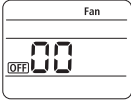




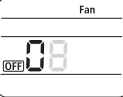
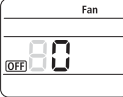

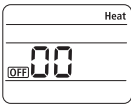




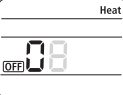
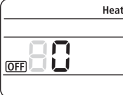
Option setting is available from SEG1 to SEG 24

- SEG1, SEG7, SEG13, SEG19 are not set as page option.
- Set the SEG2~SEG6, SEG8~SEG12 as ON status and SEG14~18, SEG20~24 as OFF status.


SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
0	X	X	X	X	X	1	X	X	X	X	X
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
2	X	X	X	X	X	3	X	X	X	X	X

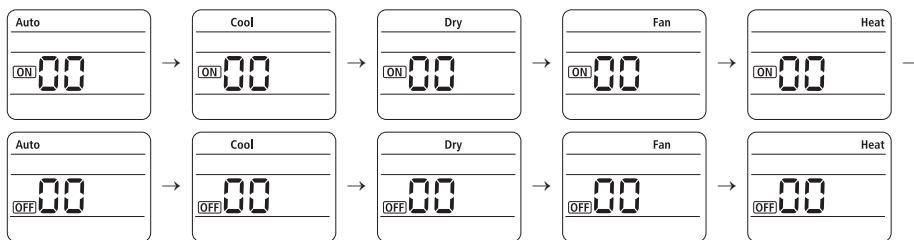
On(SEG1~12)	Off(SEG13~24)
	

Option setting	Status
<p>1. Setting SEG2, SEG3 option</p> <p>Press Low Fan button(∨) to enter SEG2 value.</p> <p>Press High Fan button(∧) to enter SEG3 value.</p> <p>Each time you press the button,  →  → ...  →  will be selected in rotation.</p>	  <p style="text-align: center;">SEG2 SEG3</p>
<p>2. Setting Cool mode</p> <p> Press Mode button to be changed to Cool mode in the ON status.</p>	
<p>3. Setting SEG4, SEG5 option</p> <p>Press Low Fan button(∨) to enter SEG4 value.</p> <p>Press High Fan button(∧) to enter SEG5 value.</p> <p>Each time you press the button,  →  → ...  →  will be selected in rotation.</p>	  <p style="text-align: center;">SEG4 SEG5</p>
<p>4. Setting Dry mode</p> <p> Press Mode button to be changed to DRY mode in the ON status.</p>	
<p>5. Setting SEG6, SEG8 option</p> <p>Press Low Fan button(∨) to enter SEG6 value.</p> <p>Press High Fan button(∧) to enter SEG8 value.</p> <p>Each time you press the button,  →  → ...  →  will be selected in rotation.</p>	  <p style="text-align: center;">SEG6 SEG8</p>
<p>6. Setting Fan mode</p> <p> Press Mode button to be changed to FAN mode in the ON status.</p>	
<p>7. Setting SEG9, SEG10 option</p> <p>Press Low Fan button(∨) to enter SEG9 value.</p> <p>Press High Fan button(∧) to enter SEG10 value.</p> <p>Each time you press the button,  →  → ...  →  will be selected in rotation.</p>	  <p style="text-align: center;">SEG9 SEG10</p>
<p>8. Setting Heat mode</p> <p> Press Mode button to be changed to HEAT mode in the ON status.</p>	
<p>9. Setting SEG11, SEG12 option</p> <p>Press Low Fan button(∨) to enter SEG11 value.</p> <p>Press High Fan button(∧) to enter SEG12 value.</p> <p>Each time you press the button,  →  → ...  →  will be selected in rotation.</p>	  <p style="text-align: center;">SEG11 SEG12</p>
<p>10. Setting Auto mode</p> <p> Press Mode button to be changed to AUTO mode in the OFF status.</p>	
<p>11. Setting SEG14, SEG15 option</p> <p>Press Low Fan button(∨) to enter SEG14 value.</p> <p>Press High Fan button(∧) to enter SEG15 value.</p> <p>Each time you press the button,  →  → ...  →  will be selected in rotation.</p>	  <p style="text-align: center;">SEG14 SEG15</p>


Option setting	Status
<p>12. Setting Cool mode</p> <p> Press Mode button to be change to Cool mode in the OFF status.</p>	
<p>13. Setting SEG16, SEG17 option</p> <p>Press Low Fan button(∨) to enter SEG16 value. Press High Fan button(∧) to enter SEG17 value. Each time you press the button,  →  → ...  →  will be selected in rotation.</p>	  <p style="text-align: center;">SEG16 SEG17</p>
<p>14. Setting Dry mode</p> <p> Press Mode button to be change to Dry mode in the OFF status.</p>	
<p>15. Setting SEG18, SEG20 option</p> <p>Press Low Fan button(∨) to enter SEG18 value. Press High Fan button(∧) to enter SEG20 value. Each time you press the button,  →  → ...  →  will be selected in rotation.</p>	  <p style="text-align: center;">SEG18 SEG20</p>
<p>16. Setting Fan mode</p> <p> Press Mode button to be change to Fan mode in the OFF status.</p>	
<p>17. Setting SEG21, SEG22 option</p> <p>Press Low Fan button(∨) to enter SEG21 value. Press High Fan button(∧) to enter SEG22 value. Each time you press the button,  →  → ...  →  will be selected in rotation.</p>	  <p style="text-align: center;">SEG21 SEG22</p>
<p>18. Setting Heat mode</p> <p> Press Mode button to be change to HEAT mode in the OFF status.</p>	
<p>19. Setting SEG23, SEG24 mode</p> <p>Press Low Fan button(∨) to enter SEG23 value. Press High Fan button(∧) to enter SEG24 value. Each time you press the button,  →  → ...  →  will be selected in rotation.</p>	  <p style="text-align: center;">SEG23 SEG24</p>

Step 3. Check the option you have set

After setting option, press  button to check whether the option code you input is correct or not.



Step 4. Input option

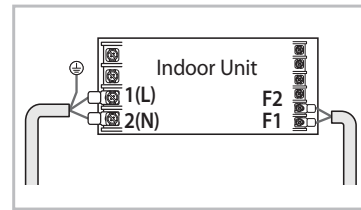
Press operation button  with the direction of remote control for set.
For the correct option setting, you must input the option twice.

Step 5. Check operation

1. Reset the indoor unit by pressing the RESET button of indoor unit or outdoor unit.
2. Take the batteries out of the remote controller and insert them again and then press the operation button.

4-1-2-2 Setting an indoor unit address (MAIN/RMC)

1. Check whether power is supplied or not.
 - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
2. The panel(display) should be connected to an indoor unit to receive option.
3. Before installing the indoor unit, assign an address to the indoor unit according to the air conditioning system plan.
4. Assign an indoor unit address by wireless remote controller.
 - The initial setting status of indoor unit ADDRESS(MAIN/RMC) is "0A0000-100000-200000-300000".



Option No. : 0AXXXX-1XXXXX-2XXXXX-3XXXXX

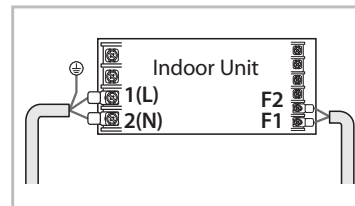
Option	SEG1		SEG2		SEG3		SEG4		SEG5		SEG6	
Explanation	PAGE		MODE		Setting Main address		100-digit of indoor unit address		10-digit of indoor unit		The unit digit of an indoor unit	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		A		0	No Main address	0~9	100-digit	0~9	10-digit	0~9	A unit digit
Option	SEG7		SEG8		SEG9		SEG10		SEG11		SEG12	
Explanation	PAGE				Setting RMC address				Group channel(*16)		Group address	
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	1				0	No RMC address			RMC1	0~2	RMC2	0~F



- When "A"~"F" is entered to SEG5~6, the indoor unit MAIN ADDRESS is not changed.
- If you set the SEG 3 as 0, the indoor unit will maintain the previous MAIN ADDRESS even if you input the option value of SEG5~6.
- If you set the SEG 9 as 0, the indoor unit will maintain previous RMC ADDRESS even if you input the option value of SEG11~12.

4-1-2-3 Setting an indoor unit installation option(suitable for the condition of each installation location)

1. Check whether power is supplied or not.
 - When the indoor unit is not plugged in, there should be additional power supply in the indoor unit.
2. The panel(display) should be connected to an indoor unit to receive option.
3. Set the installation option according to the installation condition of an air conditioner.
 - The default setting of an indoor unit installation option is "02000-100000-200000-300000".
 - Individual control of a remote controller(SEG20) is the function that controls an indoor unit individually when there is more than one indoor unit.
4. Set the indoor unit option by wireless remote controller.



SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
0	2	RESERVED	Exterior temperature sensor	Central control	FAN RPM compensation
SEG7	SEG8	SEG9	SEG10	SEG11	SEG12
1	Drain pump	Hot water heater	Electronic heater	Opening the electronic expansion valve	Master / Slave
SEG13	SEG14	SEG15	SEG16	SEG17	SEG18
2	External control	External control output	S-Plasma ion	Buzzer	Number of hours using filter
SEG19	SEG20	SEG21	SEG22	SEG23	SEG24
3	Individual control of a remote controller	Heating setting compensation	EEV opening of an indoor unit stopped during oil return or Defrost operation.	-	Human sensor

- ▶ 1WAY/2WAY/4WAY MODEL : Drain pump(SEG8) will be set to 'USE + 3minute delay' even if the drain pump is set to 0.
- ▶ 1 WAY/2WAY/4WAY,DUCT MODEL : Number of hours using filter(SEG18) will be set to '1000hour' even if the SEG18 is set to except for 2 or 6.
- ▶ If you input a number other than 0~4 of the individual control of the indoor unit(SEG20), the indoor is set as "indoor 1".

Option No. : 02XXXX-1XXXXX-2XXXXX-3XXXXX

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6						
Explanation	PAGE	MODE	Use of robot cleaning	Use of external temperature sensor	Use of central control	FAN RPM compensation						
Remote Controller Display		Auto ON 28	Auto ON 88	Cool ON 88	Cool ON 88	Dry ON 88						
Indication and Details	Indication	Details	0	Disuse	0	Disuse	0	Disuse	1	RPM compensation		
			1	Use	1	Use	1	Use	2	High ceiling KIT		
			2	Use + 3minute delay								
Option	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12						
Explanation	PAGE	Use of drain pump	Use of hot water heater	Use of electronic heater	Opening the electronic expansion valve of an indoor unit when heating operation stops.	Master / Slave						
Remote Controller Display		Dry ON 88	Fan ON 88	Fan ON 88	Heat ON 88	Heat ON 88						
Indication and Details	Indication	Details	0	Disuse	0	Disuse	0	0	0	slave		
			1	Use	1	Use	1	Use	1	80	1	master
			2	Use + 3minute delay								

Option	SEG13	SEG14	SEG15	SEG16	SEG17	SEG18						
Explanation	PAGE	Use of external control	Setting the output of external control	S-Plasma ion	Buzzer control	Number of hours using filter						
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	2		0	Disuse	0	Thermo on	0	Disuse	0	Mixed operation control1/ Use buzzer	2	1000 Hour
		1	ON/OFF Control	1	Operation on	1	Use	1	Mixed operation control1/ Disuse of buzzer	6	2000 Hour	
		2	OFF Control					2	Mixed operation control2/ Use buzzer			
3	Mixed operation control2/ Disuse of buzzer											
Option	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24						
Explanation	PAGE	Individual control of a remote controller	Heating setting compensation	EEV opening of an indoor unit stopped during oil return or defrost operation.		Human sensor						
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	3		0 or 1	channel 1	0	Disuse	0	150 step			8	Disuse
		2	channel 2	1	2°C	1	0 step			9	Use	
		3	channel 3									
		4	channel 4	2	5°C							

4-1-2-4 Changing a particular option

You can change each digit of set option.

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6						
Explanation	PAGE	MODE	The option mode you want to change	The tens' digit of an option SEG you will change	The unit digit of an option SEG you will change	The changed value						
Remote Controller Display												
Indication and Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details	Indication	Details
	0		D	Option mode	0~F	Tens' digit of SEG	0~9	Unit digit of SEG	0~9	The changed value	0~F	



- When changing a digit of an indoor unit address setting option, set the SEG3 as 'A'.
- When changing a digit of indoor unit installation option, set the SEG3 as '2'.

Ex) When setting the 'buzzer control' into disuse status.

Option	SEG1	SEG2	SEG3	SEG4	SEG5	SEG6
Explanation	PAGE	MODE	The option mode you want to change	The tens' digit of an option SEG you will change	The unit digit of an option SEG you will change	The changed value
Indication	0	D	2	1	7	1

Option Items (cont.)

Item	Model		SEG1	SEG2	SEG3	SEG4	SEG5	SEG6	SEG7	SEG8	SEG9	SEG10	SEG11	SEG12	SEG13	SEG14	SEG15	SEG16	SEG17	SEG18	SEG19	SEG20	SEG21	SEG22	SEG23	SEG24	ESP (mmAq)	
	MID AMERICA	USA																										
BIG Duct	ND220HHXCA	ND220HHXCE	0	1	5	A	1	7	1	6	0	0	0	9	7	2	0	0	0	0	0	3	0	0	0	0	5	
			0	1	5	A	1	7	1	6	0	0	0	0	c	7	2	0	0	0	0	0	3	0	0	0	10	
			0	1	5	A	1	7	1	6	0	0	0	0	E	8	2	0	0	0	0	0	0	3	0	0	0	15
			0	1	5	A	1	7	1	6	0	2	4	2	4	d	2	0	0	0	0	0	0	3	0	0	0	20
			0	1	5	A	1	7	1	6	0	2	9	F	2	9	F	2	0	0	0	0	0	3	0	0	0	25
Vivace	ND020VHXCA	ND280HHXCE	0	1	5	A	1	7	1	7	0	2	0	7	2	0	0	0	0	0	0	3	0	0	0	5		
			0	1	5	A	1	7	1	7	0	2	2	9	2	9	2	0	0	0	0	0	3	0	0	0	10	
			0	1	5	A	1	7	1	7	0	2	5	b	2	5	b	2	0	0	0	0	3	0	0	0	15	
			0	1	5	A	1	7	1	7	0	2	9	E	2	9	E	2	0	0	0	0	0	3	0	0	20	
			0	1	5	A	1	7	1	7	0	3	d	1	2	d	1	2	0	0	0	0	0	3	0	0	0	25
Neo Forte with EEV	ND020VHXCA	ND020VHXCE	0	0	4	6	0	2	1	1	2	0	0	E	7	2	0	0	0	0	0	3	0	0	0	28		
			0	0	4	6	0	2	1	3	2	0	0	E	7	2	0	0	0	0	0	0	3	0	0	0	0	
			0	0	7	6	0	2	1	5	2	2	2	1	A	2	0	0	0	0	0	0	3	0	0	0	0	
			0	0	5	6	0	6	1	A	2	2	2	5	E	2	0	0	0	0	0	0	0	3	0	0	0	
			0	0	5	6	0	6	1	c	2	3	7	1	2	0	0	0	0	0	0	0	0	3	0	0	0	
			0	2	7	6	0	2	1	1	2	0	F	A	2	0	F	A	2	0	0	0	0	3	0	0	0	
			0	2	7	6	0	2	1	3	2	0	F	A	2	0	F	A	2	0	0	0	0	3	0	0	0	
			0	2	7	6	0	2	1	5	2	2	4	d	2	4	d	2	0	0	0	0	0	3	0	0	0	
			0	2	6	6	0	2	1	A	2	2	6	F	2	6	F	2	0	0	0	0	0	3	0	0	0	
			0	2	6	6	0	2	1	c	2	2	8	F	2	8	F	2	0	0	0	0	0	3	0	0	0	
			0	2	7	6	0	2	1	1	2	0	F	A	2	0	F	A	2	0	0	0	0	3	0	0	0	
			0	2	7	6	0	2	1	4	2	0	F	A	2	0	F	A	2	0	0	0	0	3	0	0	0	
			0	2	7	6	0	2	1	4	2	0	F	A	2	0	F	A	2	0	0	0	0	3	0	0	0	
			0	2	7	6	0	2	1	6	2	2	4	d	2	4	d	2	0	0	0	0	0	3	0	0	0	
			0	2	6	6	0	2	1	9	2	2	6	F	2	6	F	2	0	0	0	0	0	3	0	0	0	
0	2	6	6	0	2	1	b	2	2	6	F	2	6	F	2	0	0	0	0	0	3	0	0	0				
0	3	5	2	0	0	1	9	4	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0				
0	3	5	2	0	0	1	c	4	0	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0				

* If you are going to use up to SEG 24, please refer to following instruction.

SEG 17 : 0 → 1: Using high ceiling kit for 4way

SEG 18:	Not in use	Use
Change temperature display	0(Celsius)	1(Fahrenheit)
Sound Mute	0	2
Mixed operation control	0	4

• If you want to use multiple functions, add each of the 'use' value of the function you want to use and input the final addition as option value. (Use Fahrenheit + Sound mute + Mixed operation control : 1 + 2 + 4 = 7)

Ex) 044217-1d00e6-200000-300000

When using Sound mute : 044217-1d00e6-200002-300000

When using high ceiling kit for 4way and mixed operation error preventing function : 044217-1d00e6-200014-300000

4-2 What to check before diagnosis





4-2-1 Lamp combination expression method display (cassette type indoor unit)

4-2-1-1 Slim 1 way cassette type

■ Error detection and restart





- When error occurs during operation, indicate a problem with LED flashes, and no other operations but LED stops.
- When restarting operation with remote controller or switch, it will determine the appropriate error mode after normal operation

■ LED lamp display with error detection

Error type	LED lamp display					Causes	Follow-up measures
							
	Green	Red					
Power reset	●	×	×	×	×	When indoor and outdoor power is on again	Not an error
Indoor temperature sensor error (Open/Short)	×	×	●	×	×	<ul style="list-style-type: none"> Indoor temperature sensor connector breakaway Short of temperature sensor wire 	<ul style="list-style-type: none"> Check the indoor temperature sensor connector Check the temperature sensor wire
Indoor heat exchanger sensor error Indoor heat exchanger OUT sensor error Indoor emission temperature sensor error (Open/Short) : Heater using models	●	×	●	×	×	Indoor pipe temperature sensor connector breakaway	Check the temperature sensor connector breakaway
Mixed operation error	×	●	×	●	×	Operate cooling & heating operation simultaneously	Change the operation mode
Indoor fan motor error: maintains for over 15 seconds below 450RPM	×	×	×	●	×	Not drive the indoor fan motor	<ul style="list-style-type: none"> Check the connector breakaway Check the fan motor lock
Outdoor temperature sensor error COND sensor error DISCHARGE sensor error	●	×	×	●	×	Outdoor unit operation error	Manage after checking the error on the outdoor PCB display window
1. Detect the indoor unit when there is no communication between the indoor unit and outdoor unit for 2 minutes. (When communication error is for over 2 minutes) 2. The indoor unit receives the communication error signal from the outdoor unit 3. The outdoor unit tracking 3 minutes error 4. When the outdoor unit transmits a communication error which is caused by difference between the number of the installation unit and the number of communication unit after completion of tracking. (When communication error is for over 2 minutes)	×	×	●	●	×	Comm. error	<ul style="list-style-type: none"> Check comm. line connection Check Indoor/outdoor unit power input Check Comm. IC

● : On ● : Flickering × : Off

■ LED lamp display with error detection (cont.)

Error type	LED lamp display					Causes	Follow-up measures
							
	Green	Red					
Self diagnosis error display (Include the indoor unit that is not detected) 1. EEV close status defect 2. EEV open status defect 3. EVAP OUT sensor breakaway 4. EVAP IN sensor breakaway	×	×	●	●	●	• Outdoor Unit or self-diagnosis error	• Check if there is an error in Outdoor Unit PCB display then take appropriate steps.
5. COND MID sensor breakaway 6. Refrigerant complete leakage 2 nd detection 7. COND high temperature 2 nd detection 8. DISCHARGE high temperature 2 nd detection 9. Low pressure switch 2 nd detection COMP DOWN 10. Reverse phase detection error 11. Freezing 6 th detection compressor stop 12. Compression sensor self diagnosis (G8, G9) 13. Compressor down error by compression ratio control	×	×	●	●	●	Outdoor unit operation error	Manage after checking the error on the outdoor PCB display window
Flot switch detection	×	×	×	●	●	Overflow of condensed water of indoor unit drain plate	• Check the drain pipe pump • Check the drain pipe clogging
Peripheral control device option setting error	×	×	●	×	●	Setting error of the indoor unit option device	Readjust the indoor PCB option S/W
EEPROM error	●	×	●	●	×	Incorrectly input the indoor unit option code	Input the indoor unit option code
EEPROM option error	●	●	●	●	●	Not input the indoor unit option code	Input the indoor unit option code
SPI error	●	×	●	×	●	• SPI connector dislocation • SPI feedback	Check the connection of SPI Connector

● : On ● : Flickering × : Off

- When stopping the operation during an error is displayed, all lamps are off.
- When restarting after stopping an operation, redisplay the error status by deciding the error again on Normal Operation.
- Refer to the "4. Troubleshooting" for detail contents related to the error mode.

4-2-1-2 4 way, mini 4 way cassette type

■ Error detection and restart

- When error occurs during operation, indicate a problem with LED flashes, and no other operations but LED stops.
- When restarting operation with remote controller or switch, it will determine the appropriate error mode after normal operation

■ LED lamp display with error detection

Error type	LED lamp display					Causes	Follow-up measures
Power reset	●	×	×	×	×	When indoor and outdoor power is on again	Not an error
Indoor temperature sensor error (Open/Short)	×	×	●	×	×	<ul style="list-style-type: none"> Indoor temperature sensor connector breakaway Short of temperature sensor wire 	<ul style="list-style-type: none"> Check the indoor temperature sensor connector Check the temperature sensor wire
Indoor heat exchanger sensor error Indoor heat exchanger OUT sensor error Indoor emission temperature sensor error (Open/Short) : Heater using models	●	×	●	×	×	<ul style="list-style-type: none"> Indoor pipe temperature sensor connector breakaway 	<ul style="list-style-type: none"> Check the temperature sensor connector breakaway
Indoor fan motor error: maintains for over 15 seconds below 450RPM	×	●	×	●	×	Not drive the indoor fan motor	<ul style="list-style-type: none"> Check the connector breakaway Check the fan motor lock
Outdoor temperature sensor error COND sensor error DISCHARGE sensor error	●	×	×	●	×	Outdoor unit operation error	<ul style="list-style-type: none"> Manage after checking the error on the outdoor PCB display window
1. Detect the indoor unit when there is no communication between the indoor unit and outdoor unit for 2 minutes. (When communication error is for over 2 minutes) 2. The indoor unit receives the communication error signal from the outdoor unit 3. The outdoor unit tracking 3 minutes error 4. When the outdoor unit transmits a communication error which is caused by difference between the number of the installation unit and the number of communication unit after completion of tracking. (When communication error is for over 2 minutes)	×	×	●	●	×	Comm. error	<ul style="list-style-type: none"> Check comm. line connection Check Indoor/outdoor unit power input Check Comm. IC

● : On ● : Flickering × : Off

■ LED lamp display with error detection (cont.)

Error type	LED lamp display					Causes	Follow-up measures
Self diagnosis error display (Include the indoor unit that is not detected) 1. EEV close status defect 2. EEV open status defect 3. EVAP OUT sensor breakaway 4. EVAP IN sensor breakaway	×	×	●	●	●	Outdoor Unit Operational error	Check error on the Outdoor Unit display window then take appropriate steps.
5. COND MID sensor breakaway 6. Refrigerant complete leakage 2 nd detection 7. COND high temperature 2 nd detection 8. DISCHARGE high temperature 2 nd detection 9. Low pressure switch 2 nd detection COMP DOWN 10. Reverse phase detection error 11. Freezing 6 th detection compressor stop 12. Compression sensor self diagnosis (G8, G9) 13. Compressor down error by compression ratio control	×	×	●	●	●		
Flot switch detection	×	×	×	●	●	Overflow of condensed water of indoor unit drain plate	<ul style="list-style-type: none"> • Check the drain pipe pump • Check the drain pipe clogging
Peripheral control device option setting error	×	×	●	×	●	Setting error of the indoor unit option device	Readjust the indoor PCB option S/W
EEPROM error	●	×	●	●	×	Incorrectly input the indoor unit option code	Input the indoor unit option code
EEPROM option error	●	●	●	●	●	Not input the indoor unit option code	Input the indoor unit option code
SPi error	●	×	●	×	●	<ul style="list-style-type: none"> • SPi connector dislocation • SPi feedback 	Check the connection of SPi Connector

● : On ● : Flickering × : Off

- When stopping the operation during an error is displayed, all lamps are off.
- When restarting after stopping an operation, redisplay the error status by deciding the error again on Normal Operation.
- Refer to the "4. Troubleshooting" for detail contents related to the error mode.

4-2-1-3 Duct type

■ Error detection and restart

- When error occurs during operation, indicate a problem with LED flashes, and no other operations but LED stops.
- When restarting operation with remote controller or switch, it will determine the appropriate error mode after normal operation

■ LED lamp display with error detection(Remote Control Receiver)

Error type	LED lamp display					Causes	Follow-up measures
	(Reclamation type)		⏸	🌀	📅		
	Green	Red					
	(Standard type)		⏸	🌀	📅		
⏸	🌀						
Power reset	●	×	×	×	×	When indoor and outdoor power is on again	Not an error
Indoor temperature sensor error (Open/Short)	×	×	●	×	×	<ul style="list-style-type: none"> Indoor temperature sensor connector breakaway Short of temperature sensor wire 	<ul style="list-style-type: none"> Check the indoor temperature sensor connector Check the temperature sensor wire
Indoor heat exchanger sensor error Indoor heat exchanger OUT sensor error Indoor emission temperature sensor error (Open/Short) : Heater using models	●	×	●	×	×	<ul style="list-style-type: none"> Indoor pipe temperature sensor connector breakaway 	<ul style="list-style-type: none"> Check the temperature sensor connector breakaway
Mixed operation error	×	●	×	●	×	Operate cooling & heating operation simultaneously	<ul style="list-style-type: none"> Change the operation mode
Outdoor temperature sensor error COND sensor error DISCHARGE sensor error	●	×	×	●	×	Outdoor unit operation error	<ul style="list-style-type: none"> Manage after checking the error on the outdoor PCB display window
1. Detect the indoor unit when there is no communication between the indoor unit and outdoor unit for 2 minutes. (When communication error is for over 2 minutes) 2. The indoor unit receives the communication error signal from the outdoor unit 3. The outdoor unit tracking 3 minutes error 4. When the outdoor unit transmits a communication error which is caused by difference between the number of the installation unit and the number of communication unit after completion of tracking. (When communication error is for over 2 minutes)	×	×	●	●	×	Comm. error	<ul style="list-style-type: none"> Check comm. line connection Check Indoor/outdoor unit power input Check Comm. IC

● : On ● : Flickering × : Off

■ LED lamp display with error detection(Remote Control Receiver) (cont.)

Error type	LED lamp display					Causes	Follow-up measures
	(Reclamation type)		⏪	🌀	📅		
	Green	Red					
	(Standard type)		⏪	🌀	📅		
⏪	🌀						
Self diagnosis error display (Include the indoor unit that is not detected) 1. EEV close status defect 2. EEV open status defect 3. EVAP OUT sensor breakaway 4. EVAP IN sensor breakaway	×	×	●	●	●	Outdoor Unit Operational error	Check error on the Outdoor Unit display window then take appropriate steps.
5. COND MID sensor breakaway 6. Refrigerant complete leakage 2 nd detection 7. COND high temperature 2 nd detection 8. DISCHARGE high temperature 2 nd detection 9. Low pressure switch 2 nd detection COMP DOWN 10. Reverse phase detection error 11. Freezing 6 th detection compressor stop 12. Compression sensor self diagnosis (G8, G9) 13. Compressor down error by compression ratio control	×	×	●	●	●		
Plot switch detection	×	×	×	●	●	Overflow of condensed water of indoor unit drain plate	<ul style="list-style-type: none"> • Check the drain pipe pump • Check the drain pipe clogging
Peripheral control device option setting error	×	×	●	×	●	Setting error of the indoor unit option device	Readjust the indoor PCB option S/W
EEPROM error	●	×	●	●	×	Incorrectly input the indoor unit option code	Input the indoor unit option code
EEPROM option error	●	●	●	●	●	Not input the indoor unit option code	Input the indoor unit option code

● : On ● : Flickering × : Off




- When stopping the operation during an error is displayed, all lamps are off.
- When restarting after stopping an operation, redisplay the error status by deciding the error again on Normal Operation.
- Refer to the "4. Troubleshooting" for detail contents related to the error mode.

4-2-1-4 Wall-mounted type (Neo Forte without EEV/with EEV)

■ Error detection and reoperation

- If an error occurs during the operation, an LED flickers and the operation is stopped except the LED.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.

■ Indoor unit LED lamp display at error detecting

Abnormal conditions	LED lamp display			Remark
	OPERATION	TIMER	TURBO	
				
Indoor unit room temperature sensor error (open or short)	○	◐	○	
Indoor unit heat exchanger temperature sensor error (open or short)	◐	◐	○	
Indoor fan motor malfunction	○	○	◐	
EEPROM error	◐	◐	◐	Option Setting
Option error (option wasn't set up or option data error)	◐	◐	◐	Option Setting
Outdoor unit error	◐	○	◐	Remote Control on/off Outdoor Unit Power Reset

4-2-1-5 Wall-mounted type (Vivace)






Display	LED lamp display	Remark
<i>E 1</i> ↔ <i>01</i>	Communication error (unable to receive data)	Communication cable connection
<i>E 1</i> ↔ <i>02</i>	Communication error (outdoor cannot communicate)	Another indoor unit or indoor PCB
<i>E 1</i> ↔ <i>21</i>	Indoor unit room temperature sensor error (Open/Short)	Room temperature sensor, indoor PCB
<i>E 1</i> ↔ <i>22</i>	Indoor unit heat exchanger in temperature sensor error (Open/Short)	Heat exchanger in sensor, indoor PCB
<i>E 1</i> ↔ <i>23</i>	Indoor unit heat exchanger out temperature sensor error (Open/Short)	Heat exchanger out sensor, indoor PCB
<i>E 1</i> ↔ <i>28</i>	Indoor unit heat exchanger in temperature sensor detached	Heat exchanger in sensor
<i>E 1</i> ↔ <i>29</i>	Indoor unit heat exchanger out temperature sensor detached	Heat exchanger out sensor
<i>E 1</i> ↔ <i>30</i>	Indoor unit heat exchanger in & out temperature sensor detached	Heat exchanger in & out sensor
<i>E 1</i> ↔ <i>54</i>	Indoor unit fan motor malfunction	Fan motor and cable
<i>E 1</i> ↔ <i>61</i>	More than 2 indoor units cool and heat simultaneously	Another indoor unit operation mode
<i>E 1</i> ↔ <i>62</i>	EEPROM error	Indoor PCB
<i>E 1</i> ↔ <i>63</i>	Option code setting error	Option code
<i>E 1</i> ↔ <i>85</i>	Cable miss-wiring	Cable connection (Indoor & Outdoor unit)
<i>E 1</i> ↔ <i>86</i>	MPI error malfunction	MPI
<i>E 2</i> ↔ <i>01</i>	The number of indoor unit mismatched	Cable connection (another indoor unit & outdoor unit), SW01(outdoor)
<i>E 2</i> ↔ <i>51</i>	Compressor discharge sensor error(Short/Open)	Outdoor unit
<i>E 5</i> ↔ <i>59</i>	Outdoor unit error	Outdoor unit (Error code)

4-2-1-6 Ceiling type

■ Error detection and reoperation






- If an error occurs during the operation, an LED flickers and the operation is stopped except the LED.
- If you re-operate the air conditioner, it operates normally at first, then detect an error again.

■ Indoor unit LED lamp display at error detecting

Error type	LED lamp display					Operating
						
Power reset	●	×	×	×	×	
Error of temperature sensor in indoor unit (Open/Short)	×	×	●	×	×	Displayed on appropriate indoor unit which is operating
Error of heat exchanger sensor in indoor unit Error of heat exchanger OUT sensor in indoor unit Error of outlet temperature sensor in indoor unit (Open/Short): For heat pump models only	●	×	●	×	×	Displayed on appropriate indoor unit which is operating
Error of mixed operation	×	●	×	●	×	
Error of indoor fan motor: Below 450RPM for 15 minutes	×	×	×	●	×	Displayed on appropriate indoor unit which is operating
Error of outdoor temperature sensor Error of COND sensor Error of DISCHARGE sensor	●	×	×	●	×	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
1. No communication for 2 minutes between indoor unit and outdoor unit (communication error for more than 2 minutes) 2. Indoor unit receiving the communication error from outdoor unit 3. Outdoor unit tracking 3 minute error 4. When sending the communication error from outdoor unit due to the mismatching of the communication numbers and installed numbers after completion of tracking (communication error for more than 2 minutes)	×	×	●	●	×	1. Error of indoor unit: Displayed on the indoor unit regardless of operation 2. Error of outdoor unit: Displayed on the indoor unit which is operating
Self-diagnostic error (including the indoor unit not detected) 1. Error of electronic expansion valve close 2. Error of electronic expansion valve open 3. Breakaway of EVA OUT sensor 4. Breakaway of EVA IN sensor	×	×	●	●	●	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit

● : On ● : Flickering × : Off

■ Indoor unit LED lamp display at error detecting (cont.)

Error type	LED lamp display					Operating
						
5. Breakaway of COND MID sensor 6. 2 nd detection of refrigerant completely leak 7. 2 nd detection of high temperature COND 8. 2 nd detection of high temperature DISCHARGE 9. COMP DOWN due to 2 nd detection of low pressure switch 10. Error of reverse phase 11. Compressor down due to 6 th detection of freezing 12. Self-diagnosis of condensation sensor (G8, G9) 13. Compressor down due to condensation ratio control	×	×	●	●	●	Displayed on appropriate indoor unit which is operating Displayed on outdoor unit
Error of float switch	×	×	×	●	●	
Error of setting option switches for optional accessories	×	×	●	×	●	
EEPROM error	●	×	●	●	×	
EEPROM option error	●	●	●	●	●	

● : On ● : Flickering × : Off

- If you turn off the air conditioner when the LED is flickering, the LED is also turned off.
- If you re-operate the air conditioner, it operates normally at first, then detects an error again.

4-2-2 Numeric type display(outdoor unit, Wired remote controller, wall-mount type etc.)

■ Meanings of the first Alphabet numbers in Error Numbers

<i>E</i>	<i>P</i>	<i>U</i>	<i>A</i>
Displayed in numbers 101 to 700 Displayed when a self-diagnosis turns out to be an Error.	Displayed in numbers 701 to 800 Displayed when the first detection has been completed for those items that requires more than 2 detections	Indicate the address of an outdoor unit that occurs errors U200 : Main outdoor unit U201 : Sub1 outdoor unit U202 : Sub2 outdoor unit U203 : Sub3 outdoor unit	Indicate the address of an indoor unit that occurs errors ex) A000 : error occurs in the indoor unit with the address 0 ex) A047: error occurs in the indoor unit with the address 47

■ Error display order

Classification	Error display method	Display examples
Error display method for ones occurred in indoor unit	Error no. → indoor unit address → error no., repeated	E471 → A002 → E417 → A002
Error display method for ones occurred in outdoor unit	Error no. → outdoor unit address → error no., repeated	E471 → U200 → E417 → U200

- Indicate the address of the smallest indoor unit only when the same error occurs in multiple units.

MEMO

4-3 How to take measures for each symptom(Model : RVXVHT075/100/125FE, RD075/100/125VHXFA)

■ Error display

Error mode	Cause	Measures to take	Product's operation condition during error(Main parts status)				Diagnosis method
			Frequency	Outdoor unit status	Error occurred indoor unit.	Other indoor units	
121	Dislocation of indoor temp. sensor connector Wire breaking of indoor temp. sensor Defective indoor temp. sensor	<ul style="list-style-type: none"> • Check if the wire of indoor temp. sensor is broken • Check if there is any problem in indoor temp. sensor connection circuit and in sensor 	1	Normal operation	Operation off	Normal operation	page 4-40
122	Dislocation of in-sensor connector in IU's heat exchanger In-sensor wire breaking in IU's heat exchanger Defective In-sensor in IU's heat exchanger	<ul style="list-style-type: none"> • Check if the wire of in-temp. sensor of IU heat exchanger is broken • Check if there is any problem in In-temp. sensor connection circuit and sensor of IU heat exchanger 	1	Normal operation	Operation off	Normal operation	page 4-41
123	Dislocation of Out-sensor connector in IU's heat exchanger Out-sensor wire breaking in IU's heat exchanger Defective Out-sensor in IU's heat exchanger	<ul style="list-style-type: none"> • Check if the wire of Out-temp. sensor of IU heat exchanger is broken • Check if there is any problem in Out-temp. sensor connection circuit and sensor of IU heat exchanger 	1	Normal operation	Operation off	Normal operation	page 4-42
128	IU's heat exchanger in sensor dislocation error	<ul style="list-style-type: none"> • Check if the in sensor of IU's heat exchanger is dislocated • Check if the holder of in sensor of IU's heat exchanger is attached 	1	Normal operation	Operation off	Normal operation	page 4-43
129	IU's heat exchanger out sensor dislocation error	<ul style="list-style-type: none"> • Check if the out sensor of IU's heat exchanger is dislocated • Check if the holder of out sensor of IU's heat exchanger is attached 	1	Normal operation	Operation off	Normal operation	page 4-44
130	Simultaneous IU's heat exchanger in/out sensor dislocation error	<ul style="list-style-type: none"> • Check if the in/out sensor of IU's heat exchanger is dislocated • Check if the holder of in, out sensor of IU's heat exchanger is attached 	1	Normal operation	Operation off	Normal operation	page 4-45
135	Indoor clean fan rotational frequency feedback error	<ul style="list-style-type: none"> • Check the feedback connection line • Check the rotational output of the clean fan motor • Check if the motor operates well 	1	Normal operation	Normal in other Functions	Normal operation	page 4-46
151	The 2 nd opening error of indoor electrically operated valve	<ul style="list-style-type: none"> • Check the PCB connection of electrically operated valve wire • Check the sealing condition of electrically operated valve • Check if there is any external rust, internal breakage/short circuit on the coil • After resetting OJ(K3), re-check if error occurs again • Replace electrically operated valve if the breakdown is confirmed 	2	Operation off	Operation off	Normal operation	page 4-47
152	The 2 nd closing error of indoor electrically operated valve	<ul style="list-style-type: none"> • Check the PCB connection of electrically operated valve wire • Check the sealing condition of electrically operated valve • Check if there is any external rust, internal breakage/short circuit on the coil • After resetting OJ (K3), re-check if error occurs again • Replace electrically operated valve if the breakdown is confirmed 	2	Operation off	Operation off	Normal operation	page 4-48
153	Indoor floating sensor error	<ul style="list-style-type: none"> • Check if the wire of indoor floating sensor is broken • Check if the wire of drain pump is broken • Check if the drain pump operates well 	1	Operation off	Operation off	Normal operation	page 4-49
154	Indoor fan error	<ul style="list-style-type: none"> • Check the feedback connection line • Check the rotational output of the fan motor • Check if the motor operates well 	1	Normal operation	Operation off	Normal operation	page 4-50
162	Defective EEPROM part Defective EEPROM circuit	<ul style="list-style-type: none"> • Check if there is wire breaking/nonwetting/dewetting of circuits around EEPROM parts 	1	Normal operation	Operation off	Normal operation	page 4-51

■ Error display (cont.)

Error mode	Cause	Measures to take	Product's operation condition during error (Main parts status)			Diagnosis method	
			Frequency	Outdoor unit status	Error occurred indoor unit.		Other indoor units
163	Indoor unit remote controller option input is wrong/not entered.	<ul style="list-style-type: none"> Re-enter remote controller option 	1	Normal operation	Operation off	Normal operation	page 4-52
170	Mixed use of Fahrenheit/Celsius setup (occurs in indoor unit with Celsius setup)	<ul style="list-style-type: none"> Input Celsius options in the remote controllers for error free indoor units (Celsius using regions) 	1	Normal operation	Operation off	Normal operation	page 4-53
185	Power input Error into indoor unit comm. line	<ul style="list-style-type: none"> Reconfirm the indoor unit comm. line connection – power line input 	1	Operation off	Operation off	Operation off	page 4-54
186	Clean Unit (SPI) feedback error	<ul style="list-style-type: none"> Check the connection of SPI feedback Check if SPI operates well 	1	Normal operation	Normal in other functions	Normal operation	page 4-55
201	Comm. Error among indoor units and outdoor units after completing initial tracking inconsistency between the number of setup IUs and the unit number setup switches	<ul style="list-style-type: none"> Check the comm. lines between indoor/outdoor units Check the setup address switch on the Indoor unit's PCB Check IU No. setup switch on the outdoor unit's PCB 	1	Operation off	Operation off	Operation off	page 4-56
202	Comm. Error among all IUs	<ul style="list-style-type: none"> Check the comm. lines between indoor/outdoor units Check the main/sub unit setup switch Check the number of indoor unit setting switch on the outdoor unit PCB 	1	Operation off	Operation off	Operation off	page 4-58
203	Comm. Error between main & sub outdoor units Comm. Error between main & sub Micoms	<ul style="list-style-type: none"> Check the comm. lines between outdoor units Check the Main/Sub unit setting switch/outdoor units Check for the disconnected line/cold solder/short circuit between Main/Sub MICOM 	1	Operation off	Operation off	Operation off	page 4-59
221	Outdoor unit Temp SENSOR ERROR(Open/Short) • Error level: over 4.9V(-50°), below 0.4V(93°)	<ul style="list-style-type: none"> Check the connection part of the outdoor temp. sensor circuit and any problem in the sensor. Check the wire breaking of the outdoor temp. sensor circuit and the connection status of the connector PCB 	1	Operation off	Operation off	Operation off	page 4-60
226	Outdoor temp. sensor dislocation error	<ul style="list-style-type: none"> Check if the outdoor temp. sensor is mounted in the right position 	1	Operation off	Operation off	Operation off	page 4-61
231	COND. OUT Main Temp SENSOR ERROR (Open/Short) • Error level: over 4.9V(-50°), below 0.4V(93°)	<ul style="list-style-type: none"> Check the connection part of the COND OUT temp. sensor circuit and any problem in the sensor Check the wire breaking of the COND OUT temp. sensor circuit and the connection status of the connector PCB 	1	Operation off	Operation off	Operation off	page 4-62
241	Outdoor COND OUT temp. sensor dislocation error	<ul style="list-style-type: none"> Check if the outdoor COND OUT sensor is mounted in the right position 	1	Operation off	Operation off	Operation off	page 4-63
251	Digital compressor discharge temp. error (Open/Short) • Error detection condition: outdoor temp. over -10° • Error level: over 4.95V(-50°), below 0.4V(93°)	<ul style="list-style-type: none"> Check the connection part of the digital compressor discharge temp. sensor circuit and any problem in the sensor. Check the wire breaking of the digital compressor discharge temp. sensor circuit and the connection status of the connector PCB 	1	Operation off	Operation off	Operation off	page 4-64

■ Error display (cont.)

Error mode	Cause	Measures to take	Product's operation condition during error (Main parts status)				Diagnosis method
			Frequency	Outdoor unit status	Error occurred indoor unit.	Other indoor units	
257	Fixed scroll compressor 2 compressor discharge temp. error (Open/Short) • Error detection condition: outdoor temp. over -10 ° • Error level: over 4.95V (-30°), below 0.5V (151°)	<ul style="list-style-type: none"> Check the connection part of fixed scroll compressor 2's discharge temp. sensor circuit and any problem in the sensor. Check the wire breaking of the fixed scroll compressor 2's discharge temp. sensor circuit and the connection status of the connector PCB 	1	Operation off	Operation off	Operation off	page 4-65
258	Fixed scroll compressor 3 compressor discharge temp. error (Open/Short) • Error detection condition: outdoor temp. over -10 ° • error level: over 4.95V (-30°), below 0.5V (151°)	<ul style="list-style-type: none"> Check the connection part of fixed scroll compressor 3's discharge temp. sensor circuit and any problem in the sensor. Check the wire breaking of the fixed scroll compressor 3's discharge temp. sensor circuit and the connection status of the connector PCB 	1	Operation off	Operation off	Operation off	page 4-65
261	Digital compressor discharge temp. Sensor dislocation error	<ul style="list-style-type: none"> Check if the digital compressor discharge temp. sensor is mounted in the right position 	1	Operation off	Operation off	Operation off	page 4-66
263	Fixed scroll compressor 2 discharge temp. Sensor dislocation error	<ul style="list-style-type: none"> Check if the fixed scroll compressor 2's discharge temp. sensor is mounted in the right position 	1	Operation off	Operation off	Operation off	page 4-66
264	Fixed scroll compressor 3 discharge temp. Sensor dislocation error	<ul style="list-style-type: none"> Check if the fixed scroll compressor 3's discharge temp. sensor is mounted in the right position 	1	Operation off	Operation off	Operation off	page 4-66
265	SUMP sensor dislocation	<ul style="list-style-type: none"> Check if SUMP sensor location is mounted in the right position 	1	Operation off	Operation off	Operation off	page 4-67
269	SUCTION sensor dislocation	<ul style="list-style-type: none"> Check if SUCTION sensor location is mounted in the right position 	1	Operation off	Operation off	Operation off	page 4-68
271	SUMP_Temp Digital SENSOR ERROR (Open/Short) • Error detection condition: outdoor temp. over -10 ° • error level: over 4.95V (-30°), below 0.5V (151°)	<ul style="list-style-type: none"> Check the connection part of SUMP_Temp Digital sensor circuit and any problem in the sensor Check for disconnected SUMP temperature power line and the PCB connection 	1	Operation off	Operation off	Operation off	page 4-69
291	Detect only high pressure SENSOR ERROR (Open/Short) compressor (short error: detect only below 0.4V) (Open error: detect only over 4.2V)	<ul style="list-style-type: none"> Check the wire breaking of high pressure sensor Check the high pressure sensor circuit and any problem in the sensor 	1	Operation off	Operation off	Operation off	page 4-70
296	Detect only low pressure SENSOR ERROR (Open/Short) compressor (short error: detect only below 0.4V) (Open error: detect only over 4.2V)	<ul style="list-style-type: none"> Check the wire breaking of low pressure sensor Check the low pressure sensor circuit and any problem in the sensor 	1	Operation off	Operation off	Operation off	page 4-70
307	Balance-keeping sensor connector dislocation Balance-keeping sensor wire breaking Defective balance-keeping sensor	<ul style="list-style-type: none"> Check if balance-keeping sensor wire is broken Check the balance-keeping sensor connection circuit and any problem with sensor 	1	Operation off	Operation off	Operation off	page 4-71
308	Suction temp. sensor connector dislocation Suction temp. sensor wire breaking Defective suction temp. sensor	<ul style="list-style-type: none"> Check if suction sensor wire is broken Check the suction sensor connection circuit and any problem with sensor 	1	Operation off	Operation off	Operation off	page 4-72
311	Liquid pipe temp. sensor connector dislocation Liquid pipe temp. sensor wire breaking Defective liquid pipe temp. sensor	<ul style="list-style-type: none"> Check if a liquid pipe temp. sensor wire is broken Check the liquid pipe temp. sensor connection circuit and any problem with sensor 	1	Operation off	Operation off	Operation off	page 4-73

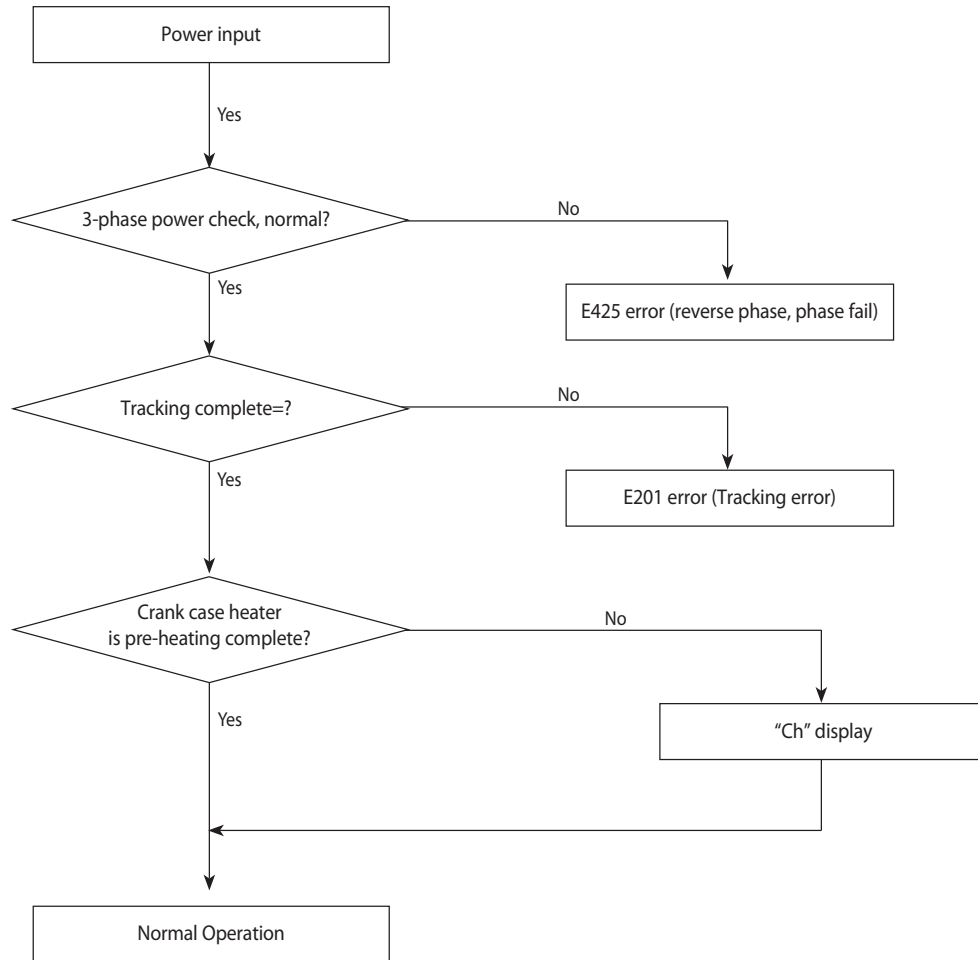
■ Error display (cont.)

Error mode	Cause	Measures to take	Product's operation condition during error (Main parts status)			Diagnosis method
			Frequency	Outdoor unit status	Error occurred indoor unit.	
312	Main Cooling Sol Valve Open Error	<ul style="list-style-type: none"> Check if main cooling sol valve is open Check if there is any problem with a valve connector/coil setting 	1	Operation off	Operation off	page 4-74
321	EV In temp. sensor dislocation EV In temp. sensor wire breaking Defective EV In temp. sensor	<ul style="list-style-type: none"> Check if EV sensor is broken Check EV sensor connection circuit and any problem with sensor 	1	operation off	operation off	page 4-75
322	EV Out connector dislocation EV Out connector wire breaking Defective EV Out connector	<ul style="list-style-type: none"> Check if EV OUT sensor is broken Check EV OUT sensor connection circuit and any problem with sensor 	1	Operation off	Operation off	page 4-76
407	Compressor down by high pressure sensor protection control	<ul style="list-style-type: none"> Check if a service valve is open Compare the values between manifold gauge and S-net; check if there are any problems with high pressure sensor Check if indoor/outdoor EEV operates Check if there is any clog in the piping such as filters Check if the fan operates well Check the amount of refrigerants (overcharging) 	1	Operation off	Operation off	page 4-77
410	Compressor down by low pressure sensor protection control	<ul style="list-style-type: none"> Check if a service valve is open Compare the values between manifold gauge and S-net; Check if there are any problems with high pressure sensor Check if indoor/outdoor EEV operates Check if there is any clog in the piping such as filters Check the amount of refrigerants (shortage) 	1	Operation off	Operation off	page 4-78
413	Protection Control by Sump sensor	<ul style="list-style-type: none"> Check if SUMP sensor is mounted in the right position and any problem with sensor connector Protective control operation, if compressor refrigerants inflow 	1	Operation off	Operation off	page 4-79
416	Compression down by discharge temp.	<ul style="list-style-type: none"> Check the resistance of discharge sensors Check if a service valve is open Compare the values between manifold gauge and S-net; Check if there are any problems with high pressure sensor Check if indoor/outdoor EEV operates Check if there is any clog in the piping such as filters 	1	Operation off	Operation off	page 4-80
425	Outdoor compression ratio 1 error	<ul style="list-style-type: none"> Check 3-phase connection error Check if there is any problem with 3-phase detection part circuit. 	1	Operation off	Operation off	page 4-81
428	Compressor down by compressor ratio control	<ul style="list-style-type: none"> Check if a service valve is open Compare the values between manifold gauge and S-net; Check if there are any problems with high pressure sensor Check if indoor/outdoor EEV operates Check if there is any clog in the piping such as filters Check the amount of refrigerants (shortage) 	1	Operation off	Operation off	page 4-82
431	Balance keeping valve 1 self-diagnosis	<ul style="list-style-type: none"> Check if there is any dislocation/pbm. with oil valve temp sensor 1 Check if an oil service valve is open Check if there is any plum with a valve connector/coil setting 	1	Operation off	Operation off	page 4-83

■ Error display (cont.)

Error mode	Cause	Measures to take	Product's operation condition during error (Main parts status)			Diagnosis method
			Frequency	Outdoor unit status	Error occurred indoor unit.	
438	EVV EEV opening error	<ul style="list-style-type: none"> Check if there is any problem with EVV, EEV connector/coil mounted in the right position Check if there is any problem with a valve 	1	Operation off	Operation off	page 4-84
440	Prohibit heating for outdoor temperature over 30°	<ul style="list-style-type: none"> Check if there is any dislocation/pbm, with outdoor temp sensor If outdoor temp measured normal, normal operation by protective control 	1	Operation off	Operation off	page 4-85
442	Prohibit filling mode for outdoor temperature over 15°	<ul style="list-style-type: none"> Check if there is any dislocation/pbm, with outdoor temp sensor If outdoor temp measured normal, normal operation by protective control 	1	Operation off	Operation off	page 4-85
443	High pressure below the average before cooling (Unable to restart)	<ul style="list-style-type: none"> Check if there is high pressure sensor failure or error by the refrigerants leakage 	1	Operation off	Operation off	page 4-86
452	Instant blackout error (delete when compressor reruns) OU power frequency error	<ul style="list-style-type: none"> Check outdoor power connection line Check if there is wire breaking/nonwetting/dewetting of the PCB power input part Check the power frequency 	1	Operation off	Operation off	page 4-87
453	Error by high temp. outdoor fan	<ul style="list-style-type: none"> Check the motor temp. Check the fan motor's rotational output Check if the motor operate well 	1	Operation off	Operation off	page 4-87
454	Displayed when outdoor fan's RPM is lower than 50	<ul style="list-style-type: none"> Check the feedback connection line Check the fan motor's rotational output Check if the motor operates well 	1	Operation off	Operation off	page 4-87
456	Outdoor fan over voltage error	<ul style="list-style-type: none"> Motor connection line Check if the motor operates well 	1	Operation off	Operation off	page 4-88
457	Outdoor fan counter rotation error	<ul style="list-style-type: none"> Check feedback connection line Check if the motor operates well Check the fan motor's rotational output Occurs with the motor's counter-rotation by reverse wind 	1	Operation off	Operation off	page 4-88
458	Detect over voltage in COMP current sensor	<ul style="list-style-type: none"> Check if there is any problem with COMP Check the electric leakage for COMP connecting wire 	1	Operation off	Operation off	page 4-89
461	Detect low voltage in COMP current sensor	<ul style="list-style-type: none"> Check COMP connection wire Check defective COMP Magnet switch 	1	Operation off	Operation off	page 4-90
477	Liquid compressor protection control	<ul style="list-style-type: none"> Protective control operation, if the refrigerants inflow by digital compressor 	1	Operation off	Operation off	page 4-91
702	1 st close indoor electrically operated valve	<ul style="list-style-type: none"> Check the PCB connection of electrically operated valve wire Check the sealing condition of electrically operated valve Check if there is any external rust, internal breakage/short circuit on the coil After resetting OU (K3), re-check if error occurs again 	1	Normal operation	Operation off	page 4-92
703	1 st open indoor electrically operated valve	<ul style="list-style-type: none"> Check the PCB connection of electrically operated valve wire Check the sealing condition of electrically operated valve Check if there is any external rust, internal breakage/short circuit on the coil After resetting OU (K3), re-check if error occurs again 	1	Re-start	Re-start	page 4-93

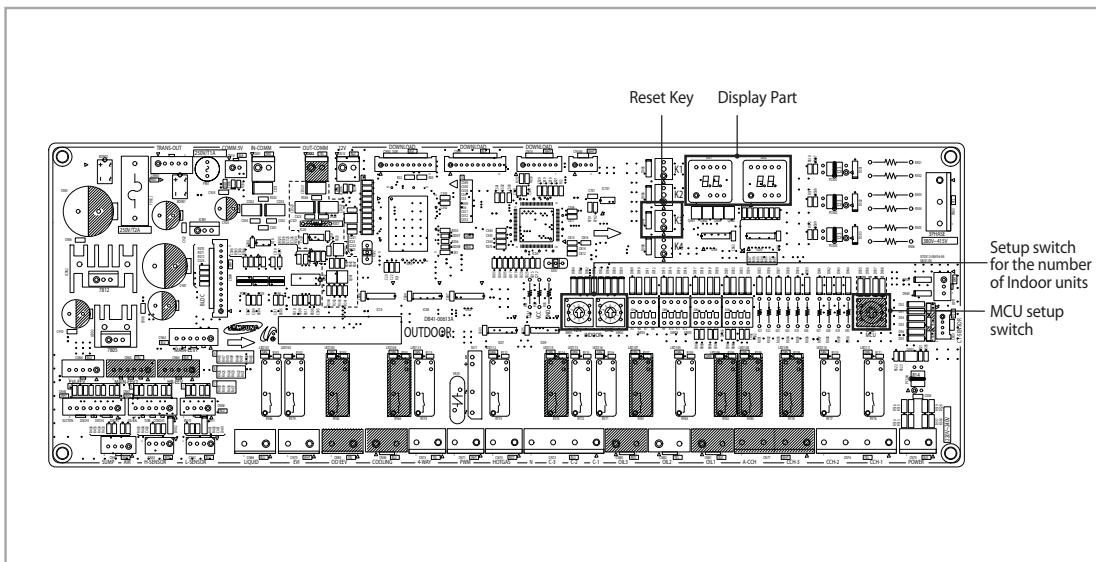
4-3-1 Outdoor unit operation flow



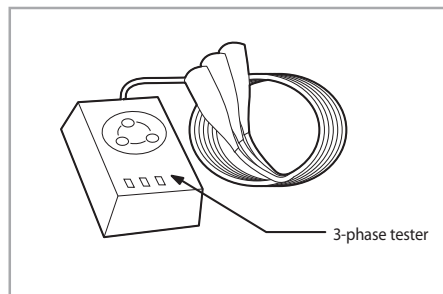
■ Reverse phase, phase fail detection (Outdoor unit using 3-phase power) – E425 display with any problems

1. When power is on, it checks the power status used for 3-phase power compressor.

When the order of 3-phase L1(R) – L2(S) – L3(T) is changed (reversed) or there is a phase that does not receive power (phase fail), it will display E425 and the air conditioner will stop operating.



- 1) Check if the power is L1(R) – L2(S) phase/ L1(R) – L3(T) phase/ L2(S) – L3(T) phase.
- 2) When there is any terminal that does not have normal voltage, check the external power of the air conditioner and take appropriate measures.
- 3) If 3-phase power is normal check the phase of the power line using 3-phase tester.
If it shows reverse phase, please change the current power line connection.
- 4) After completing above, press reset key (K3) then check the power again.
- 5) If the same problem occurs during the second check-up, check the color of the 3-phase power check lines. If there is no problem, please replace PCB.



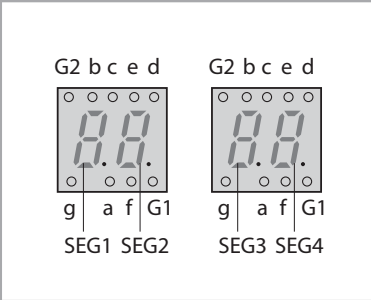
- When there is a wrong line connection on N phase (when one of R, S and T is changed with N phase), DVM PLUS3 carries out power protection to display E425 and cut off the power within 1 minute.
If that happens, it is not a PCB power defect and check the phase of power lines before replacing PCB.

Initial Tracking (Communication Check) – E20 / display with any problems

1. Depending on whether an outdoor unit is a master unit or sub unit, there are some differences in what is displayed.

1) Master Unit

- When power is on, outdoor unit MICOM tries to communicate with indoor units that are connected to its communication line (F1/F2).
- 2 display parts on the left show the main address of the indoor units subject to a communication attempt made by the outdoor unit in sequential order.
(Ex: 0,1,2 ~47)
- 2 display parts on the right show the main address of the indoor units with which the outdoor unit successfully communicated.
- When there is discrepancy in the number of indoor unit setup by the outdoor unit and those where communication was made, the four display parts shows **E20**.

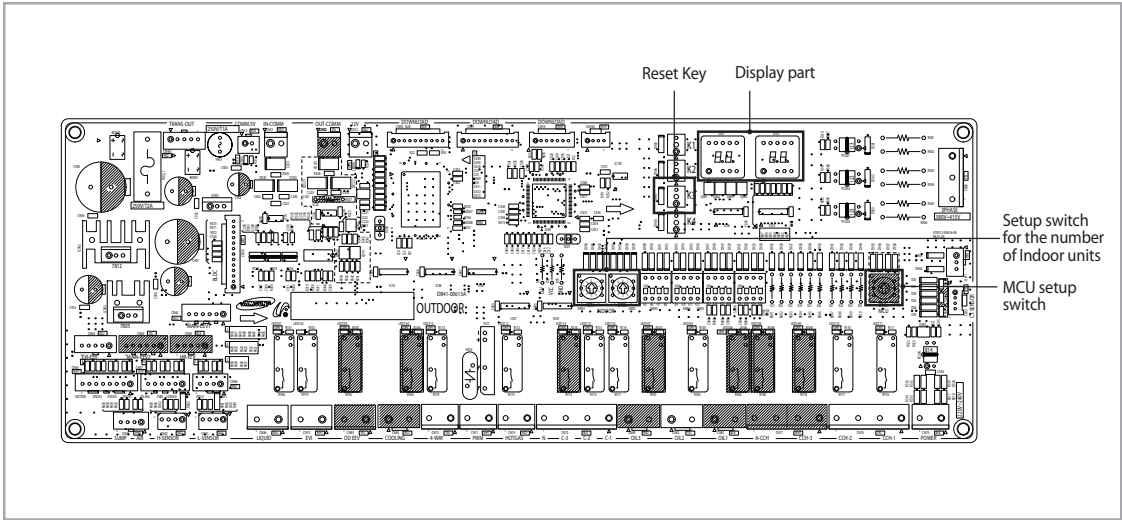


The display part of an outdoor unit

2) Sub(Slave) Unit

- It shows the MICOM address of MAIN PBA within the sub unit that is connected to a master unit in turn. (ex: C9, CA, CB, CC, CD, CE, DF)

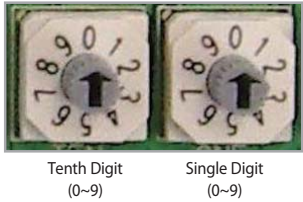
2. Figure out the number of indoor units connected to the outdoor unit through a setup switch for the number of indoor unit .



Setup switch for the number of Indoor units

The following is an example of how to use a switch for the number of indoor units installed.
The max. number of units for connection is 64.

3 units Connection		17 units Connection		31 units Connection		64 Units Connection	
Tenth Digit	Single Digit	Tenth Digit	Single Digit	Tenth Digit	Single Digit	Tenth Digit	Single Digit
0	3	1	7	3	1	6	4



3. When there is a discrepancy between the number of indoor units detected through a setup switch for the no. of indoor units and the number of indoor units detected in the tracking process, E210 and U200 will be displayed in turn.

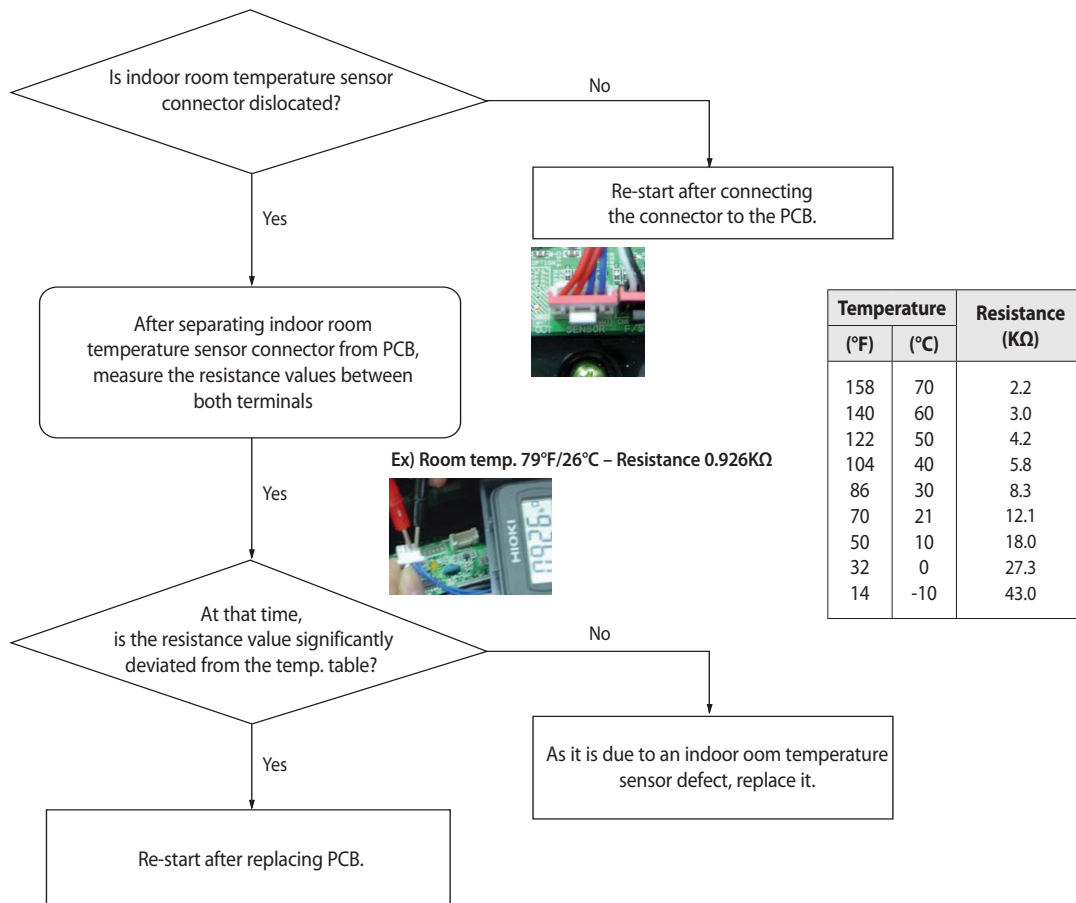
■ Compressor pre-heating – CH display

1. When tracking is completed, check compressor temperature before moving onto the system operation to determine if it is ready to operate.
2. If it has all conditions to operate the compressor, the flashing light of the CH will disappear and the left display part will show the address of the indoor units subject to the outdoor unit's communication attempt while the right one shows the address of the indoor units that have responded to the communication.
3. When it is not suitable to immediately operate the compressor, the display part flickers CH and heats the compressor with CCH (Crank Case Heater) for 2 hours and 30 minutes.
4. Whether or not it is at a suitable temperature to operate is determined once after turning on the power. However, for the first time of carrying out the test operation after installation please input the power six hours before test operation.

4-3-2 Indoor Unit ROOM sensor Error (Open/Short)

Outdoor unit display	E 121 → A ^{xxx} (xxx: The address of the error occurred indoor unit)
Indoor unit display	×(Operation) ●(Timer) ×(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• The room temperature sensor of No. XXX indoor unit has defective OPEN/SHORT

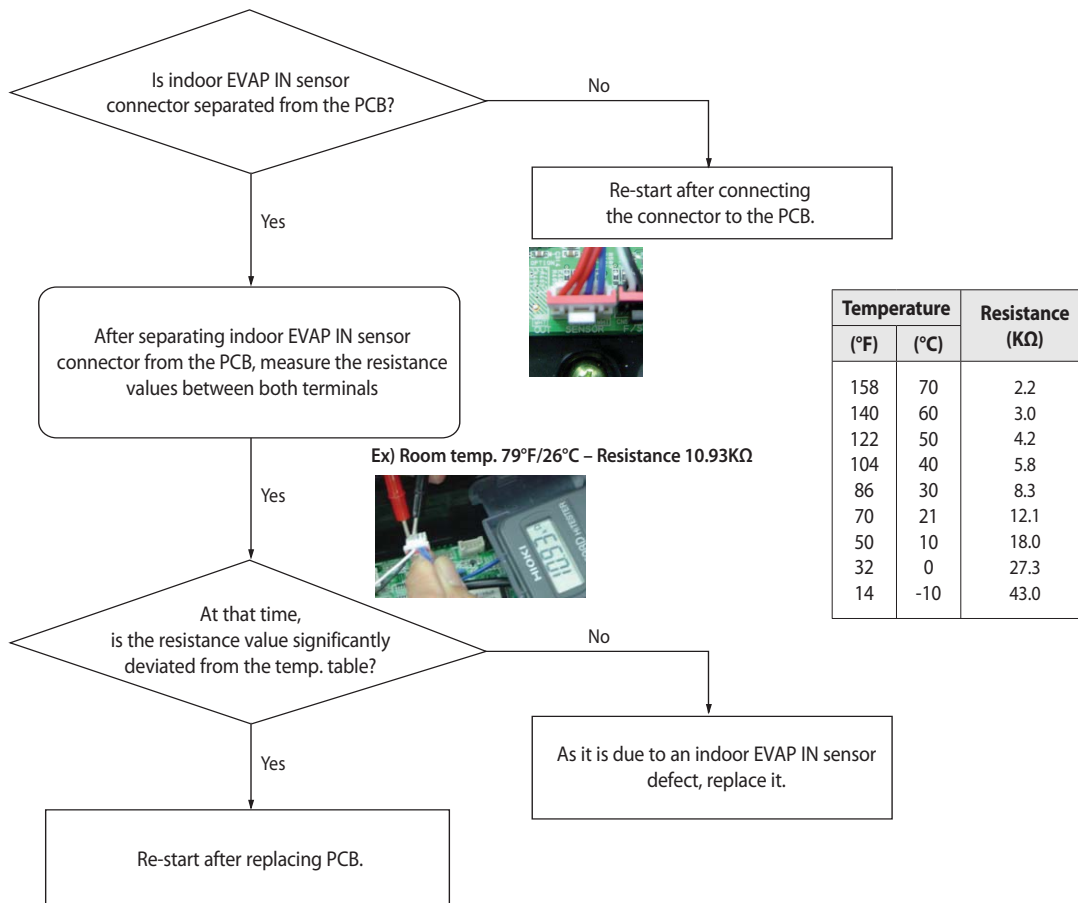
1. How to check



4-3-3 Indoor unit EVAP IN sensor Error (Open/Short)

Outdoor unit display	E 122 ↔ A ^{xxx} (x x x: The address of the error occurred indoor unit)
Indoor unit display	●(Operation) ●(Timer) ×(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• The EVAP IN sensor of No. XXX indoor unit has defective OPEN/SHORT

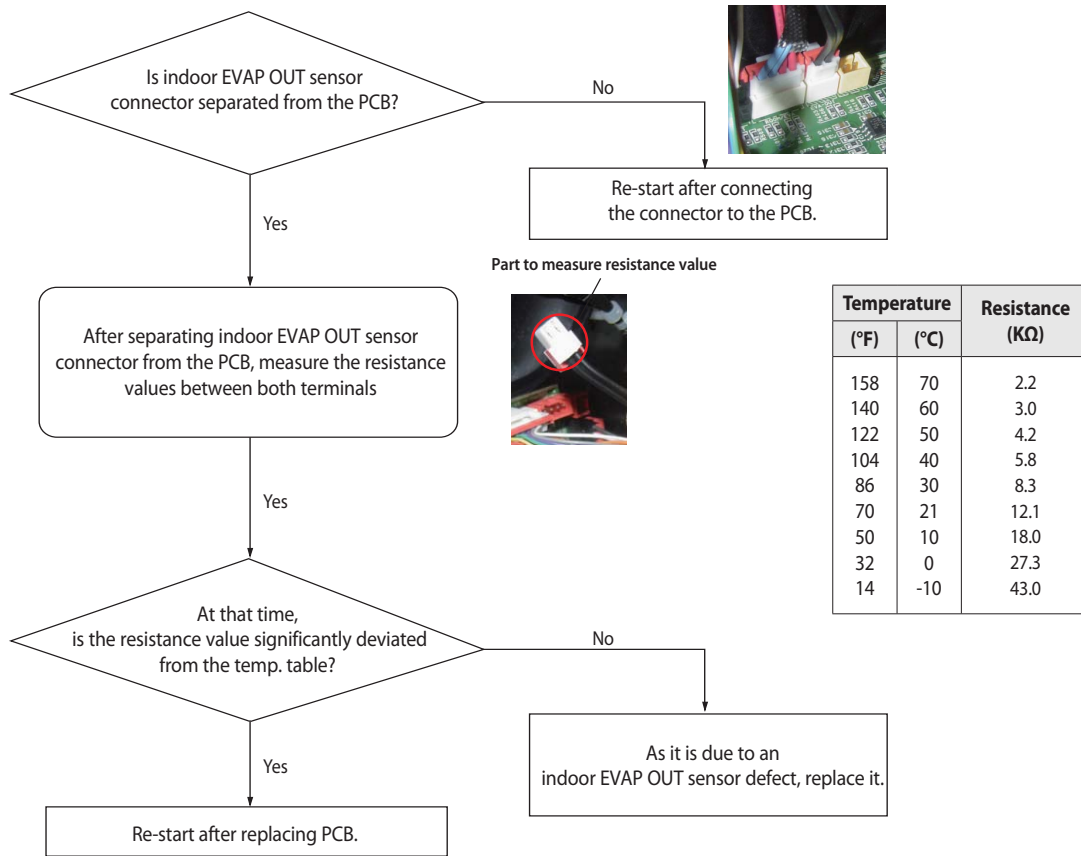
1. How to check



4-3-4 Indoor EVAP OUT sensor Error (Open/Short)

Outdoor unit display	E 123 ↔ A ^{xxx} (x x x: The address of the error occurred indoor unit)
Indoor unit display	●(Operation) ●(Timer) ×(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• The EVAP out sensor of No. XXX indoor unit has defective OPEN/SHORT

1. How to check



4-3-5 Indoor Heat Exchanger's EVAP IN sensor dislocation error

Outdoor unit display	<i>E 128</i> ↔ <i>A</i> ^{xxx} (xxx: The address of the error occurred indoor unit)
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Indoor heat exchanger's EVAP IN piping sensor has been dislocated

1. How to diagnose

1) During Cooling Operation

Tcond, out - Tair, out > 37°F/3°C	OK
Tair, in - Teva, out > 39°F/4°C	NO
Tair, in - Teva, out > 39°F/4°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Indoor heat exchanger's EVAP IN sensor dislocation error

2) During heating operation

Average high pressure > 2.45MPa	OK
Average low pressure > 0.83MPa	OK
Tcond, out - Tair, out ≥ 37°F/3°C	OK
Tair, in - Teva, out ≥ 35.6°F/2°C	NO
Tcond, out - Tair, out < 28.4°F/-2°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Indoor heat exchanger's EVAP IN sensor dislocation error

2. How to check

Check if an Indoor heat exchanger's EVAP IN sensor has been dislocated then is correct after assembling.

4-3-6 Indoor Heat Exchanger's EVA OUT sensor dislocation error (Open/Short)

Outdoor unit display	E 129 ↔ A ^{xxx} (xxx : The address of the error occurred indoor unit)
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Indoor heat exchanger's EVA IN piping sensor has been dislocated

1. How to diagnose

1) During Cooling Operation

Tcond, out - Tair, out > 37°F/3°C	OK
Tair, in - Teva, out > 39°F/4°C	NO
Tair, in - Teva, out > 39°F/4°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Indoor heat exchanger's EVA IN sensor dislocation error

2) During Heating operation

Average high pressure > 2.45MPa	OK
Average low pressure > 0.83MPa	OK
Tcond, out - Tair, out ≥ 37°F/3°C	NO
Tair, in - Teva, out ≥ 35.6°F/2°C	NO
Tcond, out - Tair, out < 28.4°F/-2°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Indoor heat exchanger's EVA IN sensor dislocation error

2. How to check

Check if an Indoor heat exchanger's EVA OUT sensor has been dislocated then is correct after assembling.

4-3-7 Simultaneous Indoor Heat Exchanger's EVA IN, OUT sensor dislocation error (Open/Short)

1. How to diagnose

1) During Cooling Operation

Tcond, out - Tair, out > 37°F/3°C	OK
Tair, in - Teva, out > 39°F/4°C	NO
Tair, in - Teva, out > 39°F/4°C	NO
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Simultaneous indoor heat exchanger's EVA IN, OUT sensor dislocation error

2) During Heating operation

Average high pressure > 2.45MPa	OK
Average low pressure > 0.83MPa	OK
Tcond, out - Tair, out ≥ 37°F/3°C	NO
Tair, in - Teva, out ≥ 35.6°F/2°C	NO
Tcond, out - Tair, out < 28.4°F/-2°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Simultaneous Indoor heat exchanger's EVA IN, OUT sensor dislocation error

2. How to check

Check if an Indoor heat exchanger's EVA IN, OUT sensor has been dislocated then is correct after assembling.

4-3-8 Operational error of indoor Unit's Clean Fan (Open/Short)

Outdoor unit display	<i>E 135</i> ↔ <i>A</i> ^{xxx} (xxx: The address of the error occurred indoor unit)
Indoor unit display	×(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• The operational error of the fan motor of No. XXX indoor unit

1. How to diagnose
Occurs when RPM values are not sent as feedback to MICOM at a PID control-type fan motor

2. How to check
 - 1) Check the HALL IC connector that carries out RPM value feedback
 - 2) If the operational capacitor is a PCB separation type, check the connection terminal
 - 3) Check the operation status of fan motor
 - 4) If there is no problem with the above checkup items, replace the PCB.

4-3-9 Breakdown of EEV (2nd)

1. How to diagnose

Detect only on cooling operation. (No detection during heating operation.)

During cooling operation, the temperature of the inlet or outlet ducts of heat exchanger is kept below 32°F/0°C for more than 20 minutes without cessation

2. How to check

1) Check if the wire of electronic expansion valve is correctly connected to the PCB of indoor unit.

2) Check if the coil of an electronic expansion valve is correctly plugged into the main body.

3) Check if there is any rust on the surface of the electronic expansion valve with naked eyes then check the resistance between each terminal to find any wire breaking or short circuit.

4) Press the RESET KEY (K3) of the outdoor unit then see if the same error occurs.

- In case of closure problem, operate the indoor unit in which the error has occurred.

- In case of opening problem, please do not operate the indoor unit in which the error has occurred.

5) If there is no problem with the above checkup items, replace the electronic expansion valve of the troubled indoor unit.

- As an electronic expansion valve replacement is tricky work that requires collecting refrigerants in all systems, please check the above items before replacement.

4-3-10 Problem with EEV closure (2nd)

1. How to diagnose

1) During Cooling operation(Each of the below conditions have to be met for at least 20 minutes.)

Tcond, out - Tair, out > 37°F/3°C	OK
Tair, in - Teva, out > 39°F/4°C	NO
Tair, in - Teva, out > 39°F/4°C	NO
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Electrically operated valve closure breakdown

2) During heating operation (must satisfy all conditions below)

- When more than 2 indoor units are on Thermo On heating operation.
- When average high pressure is over 1.76MPa
- 5 minutes after finishing Safety Start
- Keep Indoor units' $T(Eva_In) < T(Room) + 37°F/3°C$ and $T(Eva_Out) < T(Room) + 37°F/3°C$ condition for more than 5 minutes

2. How to check

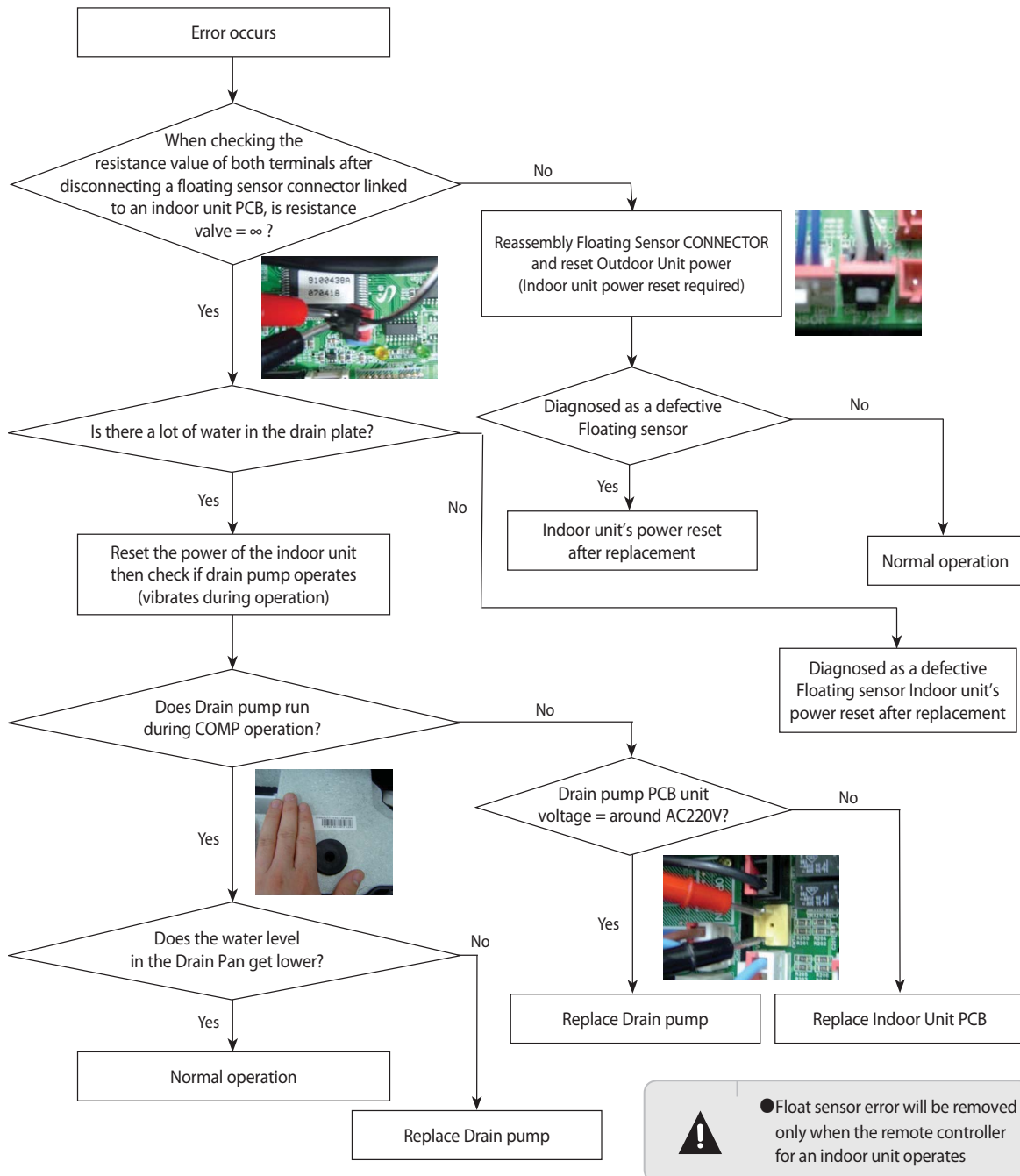
- 1) Check if the wire of electronic expansion valve is correctly connected to the PCB of indoor unit.
- 2) Check if the coil of electronic expansion valve is correctly plugged into the main body.
- 3) Check if there is any rust on the surface of the electronic expansion valve with naked eye then check the resistance between each terminal to find any wire breaking or short circuit.
- 4) Press the RESET KEY (K3) of the outdoor unit then see if the same error occurs.
 - In case of closure problem, operate the indoor unit in which the error has occurred.
 - In case of opening problem, please do not operate the indoor unit in which the error has occurred.
- 5) If there is no problem with the above checkup items, replace the electronic expansion valve of the troubled indoor unit.
 - As electronic expansion valve replacement is tricky work that requires collecting refrigerants in all systems, please check the above items before replacement.

4-3-11 E153 : Detection of Floating Switch of Indoor Unit's Drain Pump

Outdoor unit display	E153 → A ×××(x x x : The address of the error occurred indoor unit)
Indoor unit display	×(Operation) ×(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Due to the breakdown of a drain pump of the indoor unit, an increase in the water level in the drainage plate or defective detection sensor

* To release E153 error, you must reset the power of the indoor unit.

1. How to check



4-3-12 The operational error of Indoor Unit's Fan Motor

Outdoor unit display	<i>E 154</i> ↔ <i>A</i> ^{xxx} (_{xxx} : The address of the error occurred indoor unit)
Indoor unit display	×(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• The operational error of the fan motor of No. XXX indoor unit

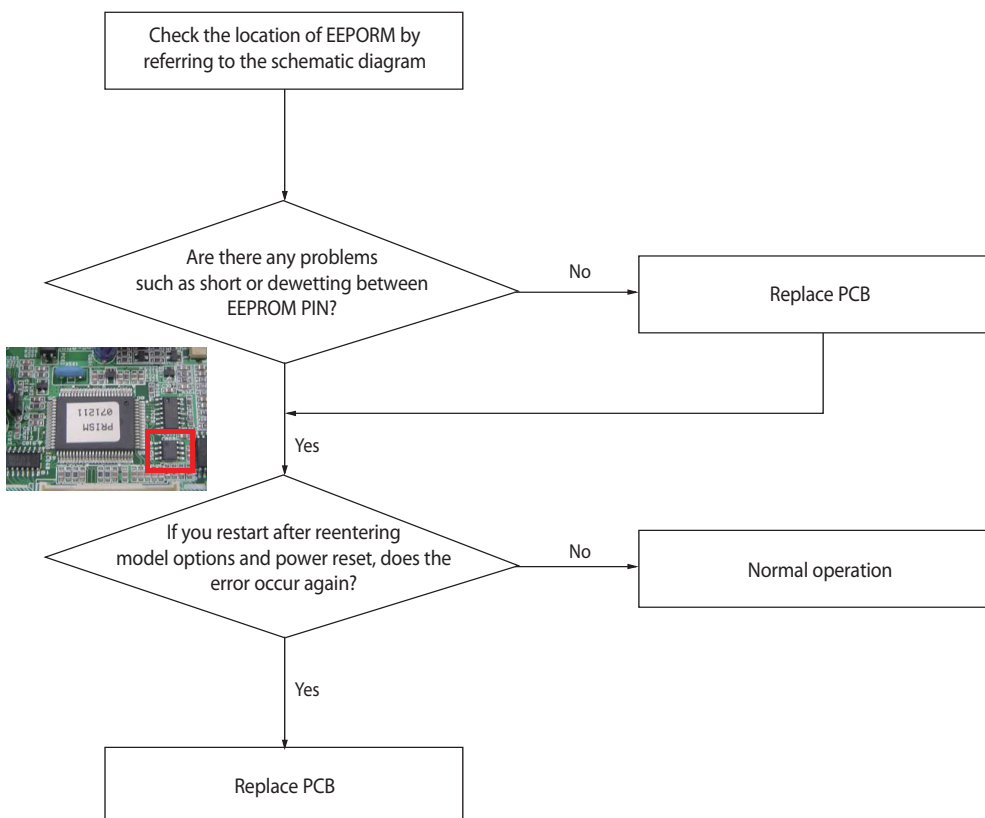
1. How to diagnose
 - 1) Occurs when RPM valve fails to feedback to MICOM at a PID control-type fan motor

2. How to check
 - 1) Check HALL IC connector that carries out feedback of RPM value.
 - 2) If a fan motor operation capacitor is a PCB separating type, check the connection terminal.
 - 3) Check the operational status of the fan motor.
 - 4) If there is no problem with the above checkup items, replace the PCB.

4-3-13 EEPROM error

Outdoor unit display	<i>E 162</i>
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Communication failure between EEPROM and MICOM
Cause of problem	• PCB replacement due to defective EEPROM

1. How to check



4-3-14 Option error of the Remote Controller for an Indoor Unit

Outdoor unit display	<i>E 163</i>
Indoor unit display	<input type="radio"/> (Operation) <input type="radio"/> (Timer) <input type="radio"/> (Fan) <input type="radio"/> (Filter) <input type="radio"/> (Defrost)
Criteria	• Display number type of indoor unit – E163 occurs, Lamp type – all lamps flash
Cause of problem	• Missed or erroneous input of remote controller options

- Check relevant remote controller options for each model then enter correct options

4-3-15 Error due to confused use of Fahrenheit and Celsius

Outdoor unit display	<i>E 170</i>
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	<ul style="list-style-type: none"> • Display number type of indoor unit – E170 occurs, Lamp type – all lamps flash • Occurs in an indoor unit with Celsius setting
Cause of problem	<ul style="list-style-type: none"> • Missed input of remote controller options

- Check relevant remote controller options for each model then enter correct options
- As this happens only in a Celsius setting model, it is necessary to reenter option codes for error-free models in a region where Celsius is used.

4-3-16 Error due to incorrect Indoor Unit Power/Communication Cable Connection

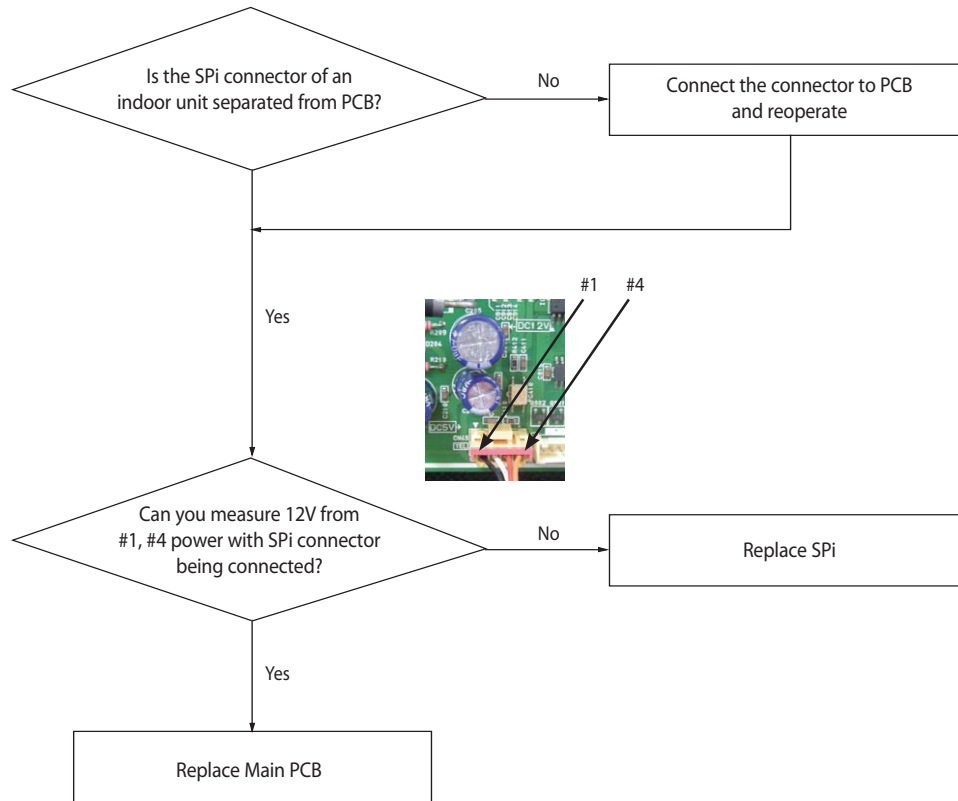
Outdoor unit display	<i>E 185</i>
Indoor unit display	<i>E 185</i> (wall mount type)
Criteria	• Check for Power input(220V) for the Terminal block(F1/F2).
Cause of problem	• Apply power (220V) to the terminal of the indoor unit communication block (F1/F2)

- Check for disconnected line after turning off the Main power.

4-3-17 SPi Feedback Error

Outdoor unit display	<i>E 186</i>
Indoor unit display	●(Operation) ●(Timer) ×(Fan) ●(Filter) ×(Defrost)
Criteria	• Check if the output of SPi Feedback is 12V
Cause of problem	• SPi defect

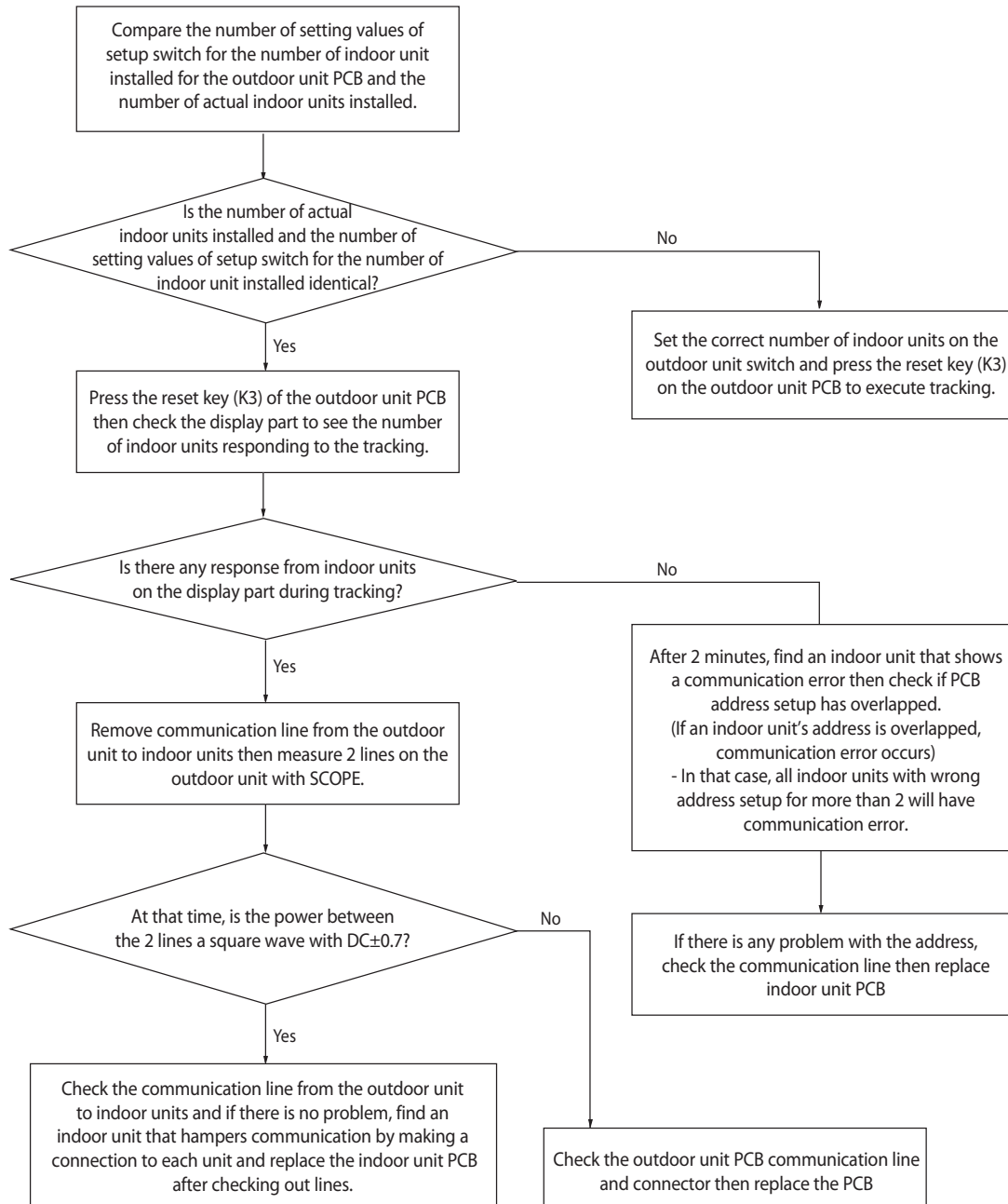
1. How to check



4-3-18 Communication error between Indoor and Outdoor units during Tracking

Outdoor unit display	E201
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Communication error between indoor and outdoor units
Cause of problem	• Refer the below

1. How to check



※ Important things to check before replacing PCB for Communication error

1. Find a communication IC around a communication terminal.

● Indoor Unit

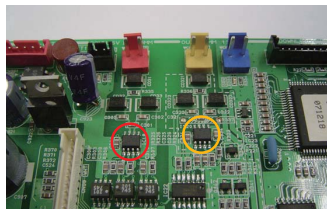
- The upper part of the red connector - communication IC for communication between indoor and outdoor units
- The upper part of the blue connector – wired remote controller communication IC

● Outdoor Unit

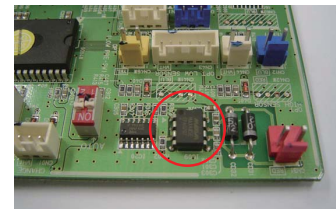
- If there is a module communication as in PLUSII, PLUSII : the upper part of the red connector: communication IC for communication between indoor and outdoor units
- If there is a module communication as in PLUSII, PLUSII : the upper part of the yellow connector of each unit: communication IC for communication among outdoor units
- Other outdoor units – the upper part of the communication connector : communication IC for communication between indoor and outdoor units



Indoor unit



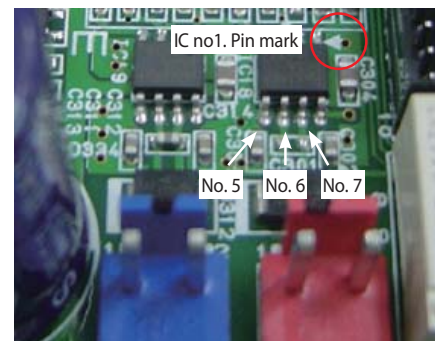
Module-type outdoor unit



Independent-type outdoor unit

2. Measure the resistance of communication IC.

- How to measure : measure resistance between no. 5 – no.6 Pin
measure resistance between no. 5 – no.7 Pin



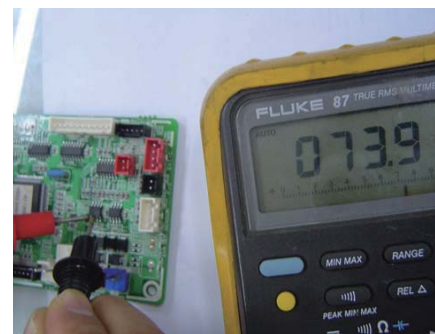
3. Diagnosis of communication IC's status using the measured resistance.

● Diagnosed as normal

- Each resistance value should be between several tens kΩ-several hundreds kΩ unit
- The difference between both resistances should be within several kΩ

● Diagnosed as defective

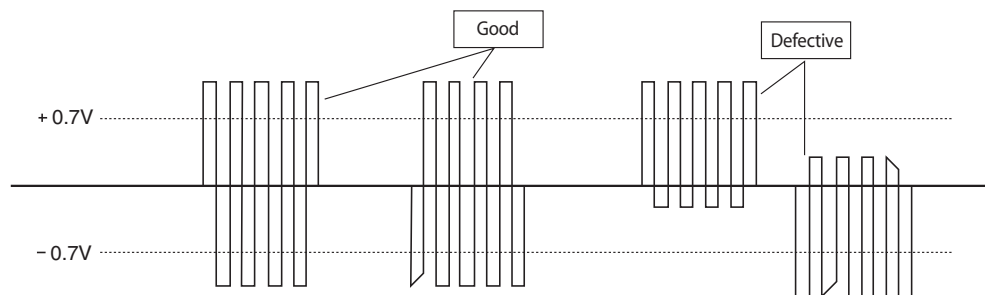
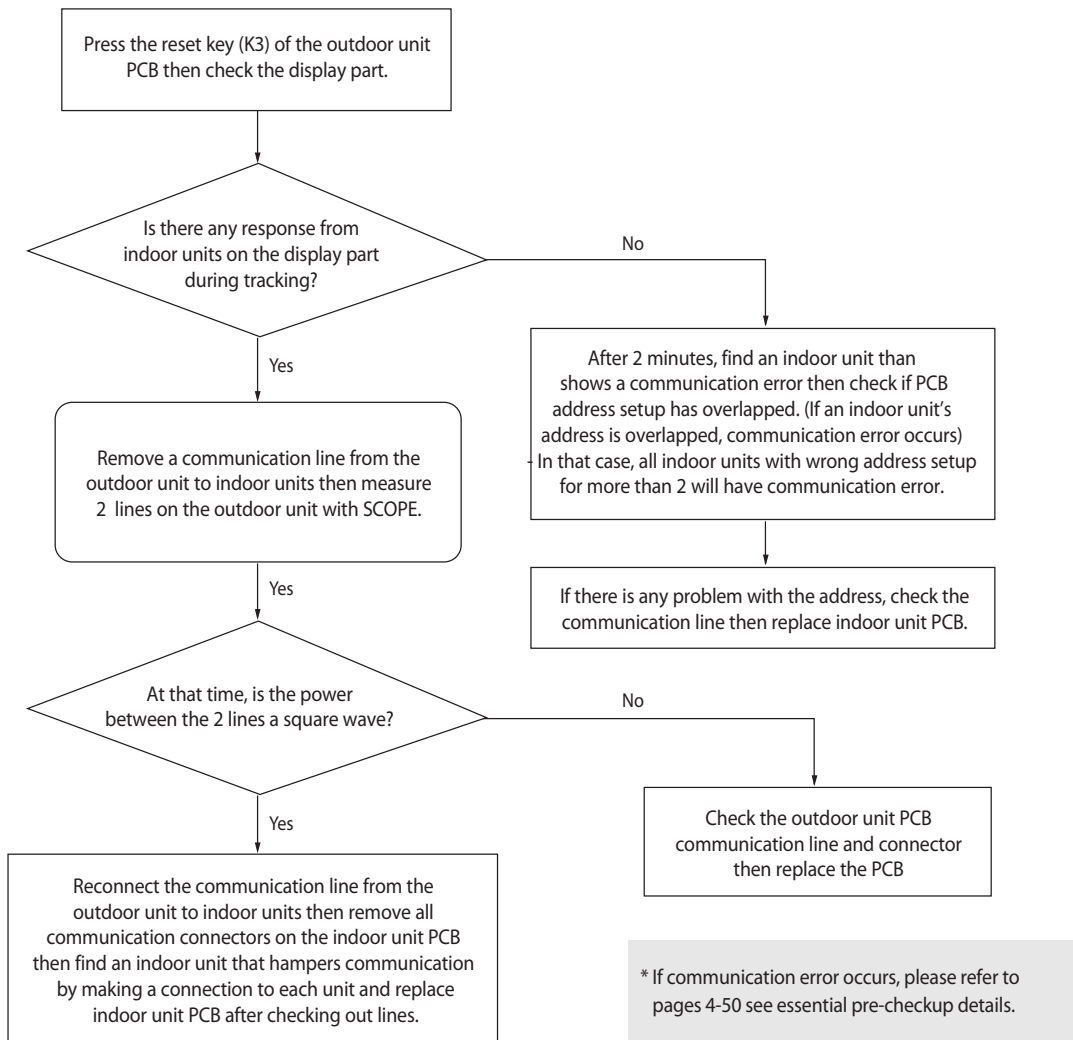
- One or both has low resistance values around several tens Ω
- One or both are open.



4-3-19 Communication error between Indoor & Outdoor units after Completing Tracking

Outdoor unit display	E202
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• When the communication between indoor/outdoor units cut-off for 2 minutes (all chambers fail to receive)
Cause of problem	• Communication error between indoor/outdoor units and/or the erroneous setup switch setting for the number of indoor units installed.

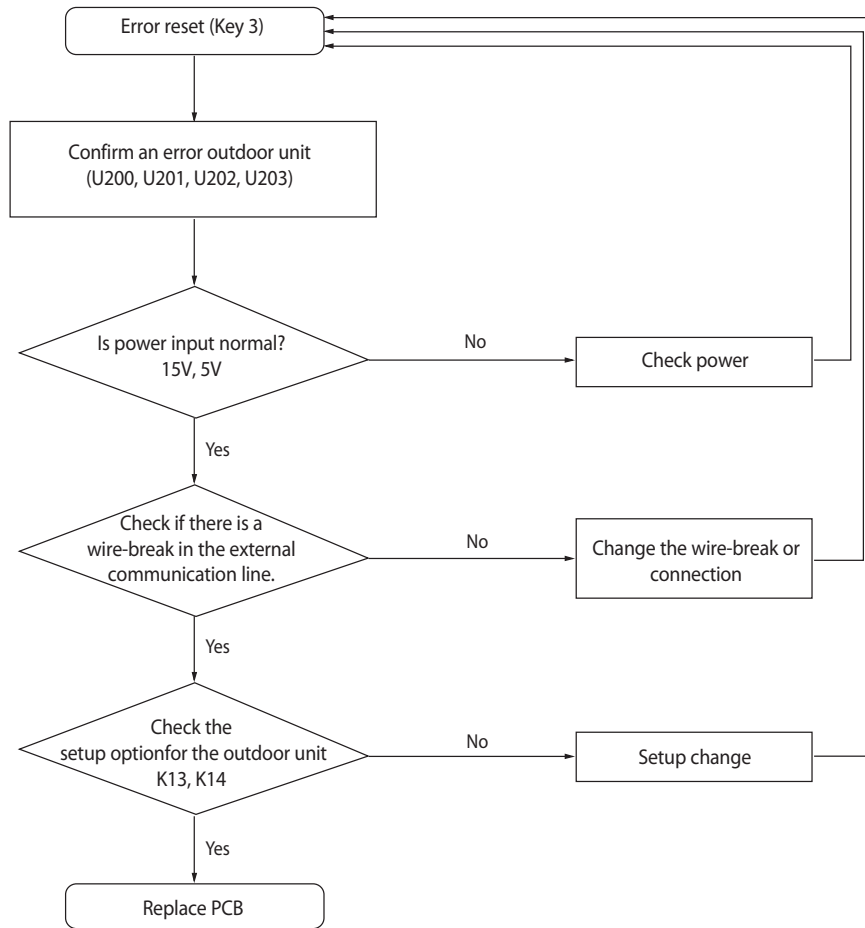
1. How to check



4-3-20 Communication error between Main and Sub Micoms of an Outdoor unit or among Outdoor Units

Outdoor unit display	<i>E203</i> ↔ <i>A</i> ^{xxx} (xxx: The address of the error occurred indoor unit)
Indoor unit display	-
Criteria	• Refer to the diagnosis method below
Cause of problem	• Communication error between outdoor units

1. How to check

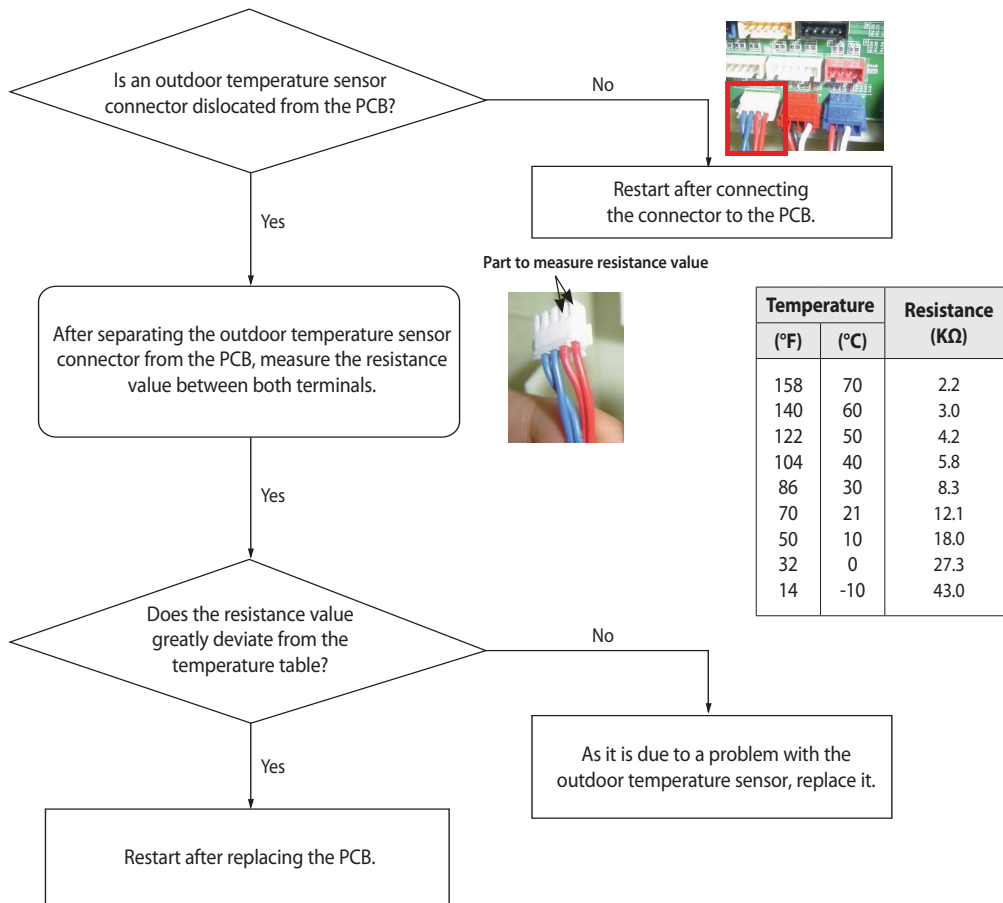


* If communication error occurs, please refer to pages 4-50 see essential pre-checkup details.

4-3-21 Outdoor Temperature Sensor error

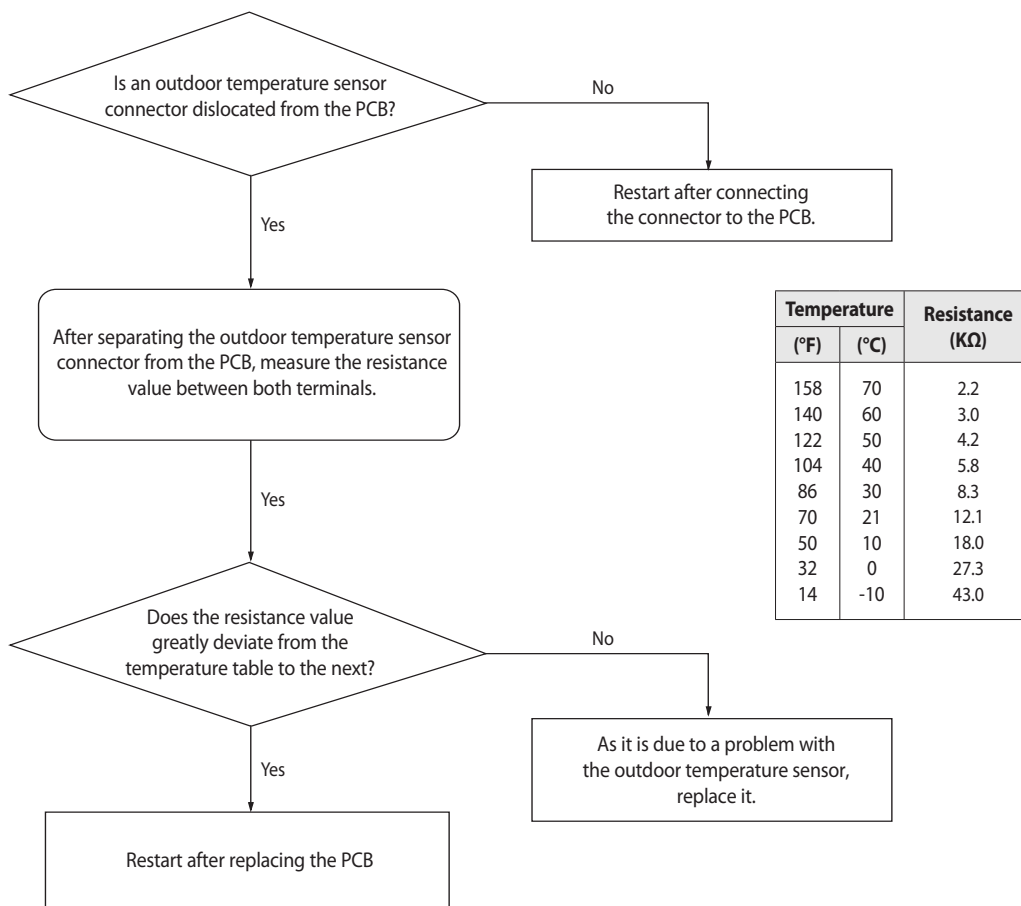
Outdoor unit display	E221
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Outdoor temperature sensor OPEN/SHORT defective

1. How to check



4-3-22 Outdoor Temperature dislocation error

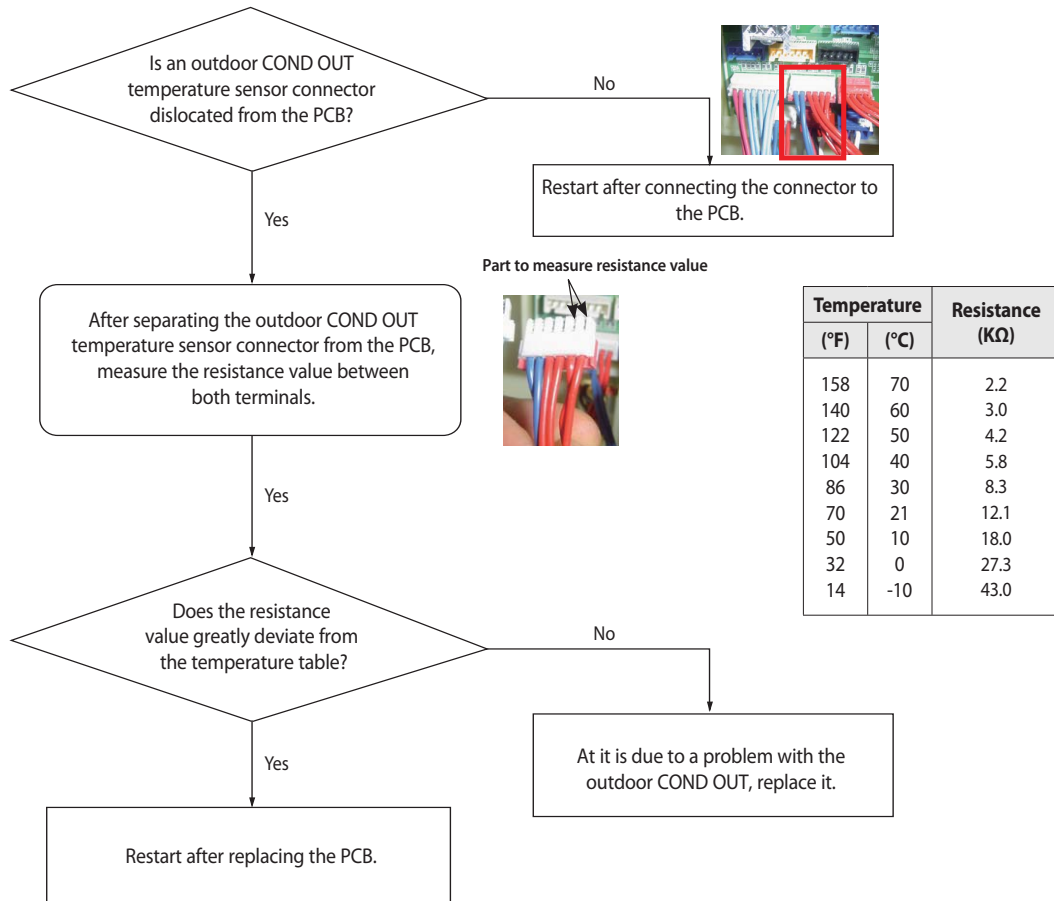
1. How to check



4-3-23 COND OUT Temperature Sensor error (Open/Short)

Outdoor unit display	E231
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

1. How to check



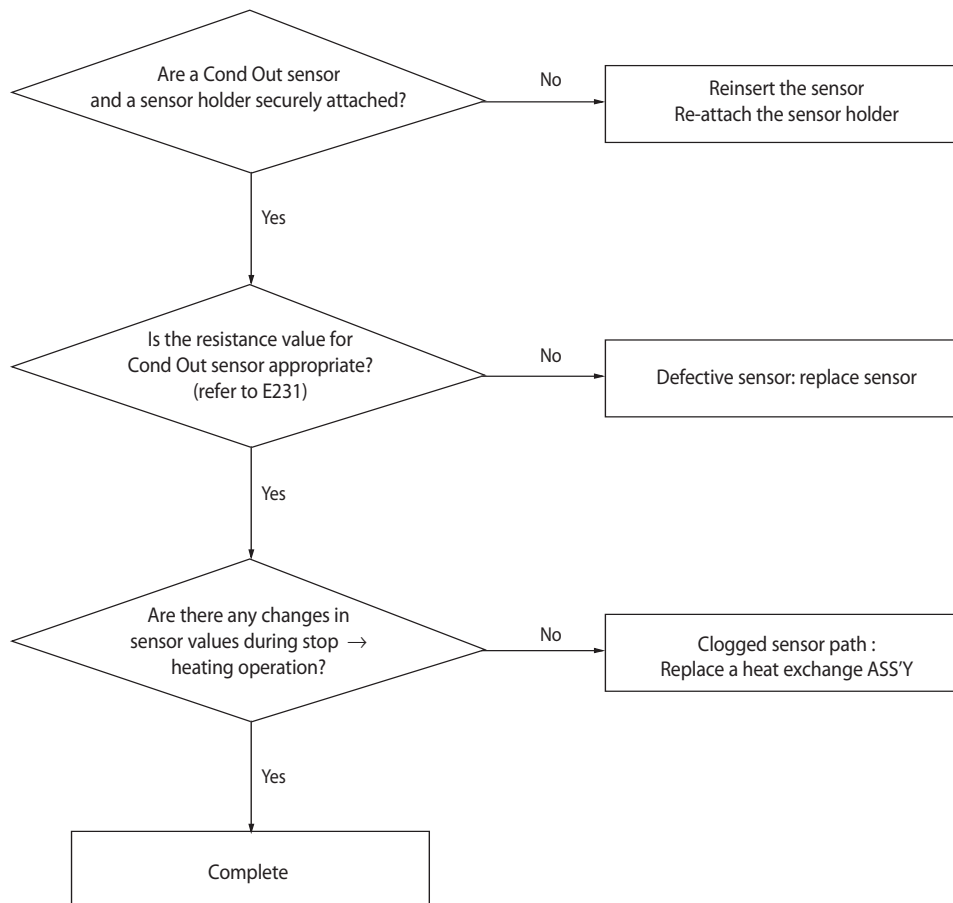
4-3-24 Outdoor COND OUT Sensor dislocation error

1. How to diagnose

- 1) During Cooling operation, there will be no detection
- 2) During Heating operation(Each of the below conditions have to be met for at least 20 minutes.)

Average high pressure > 2.45MPa	OK
Average low pressure > 0.83MPa	OK
Tcond, out - Tair, out ≥ 37°F/3°C	OK
Tair, in - Teva, out ≥ 35.6°F/2°C	OK
Tcond, out - Tair, out < 28.4°F/-2°C	NO
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Outdoor Cond Out sensor dislocation error

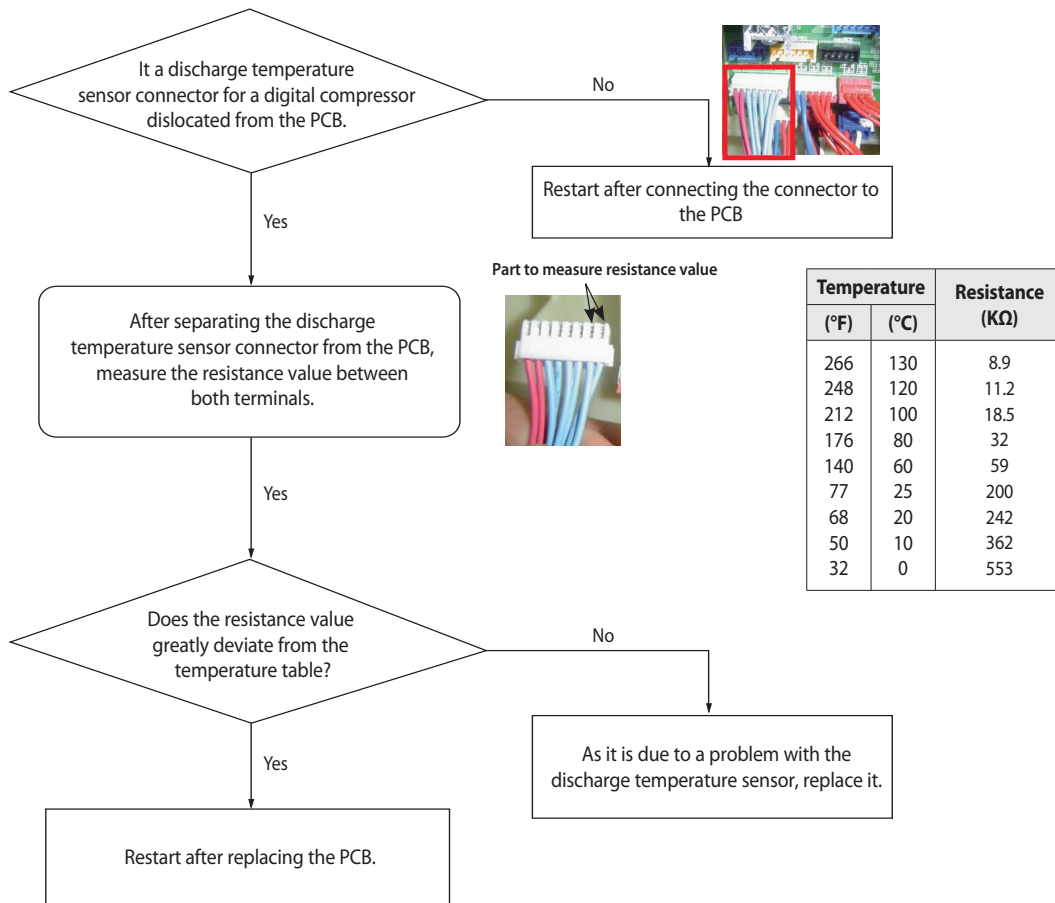
1. How to check



4-3-25 Discharge Temperature Sensor error for a digital Compressor (Open/Short)

Outdoor unit display	E251
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Digital compressor's discharge temperature sensor OPEN/SHORT defective

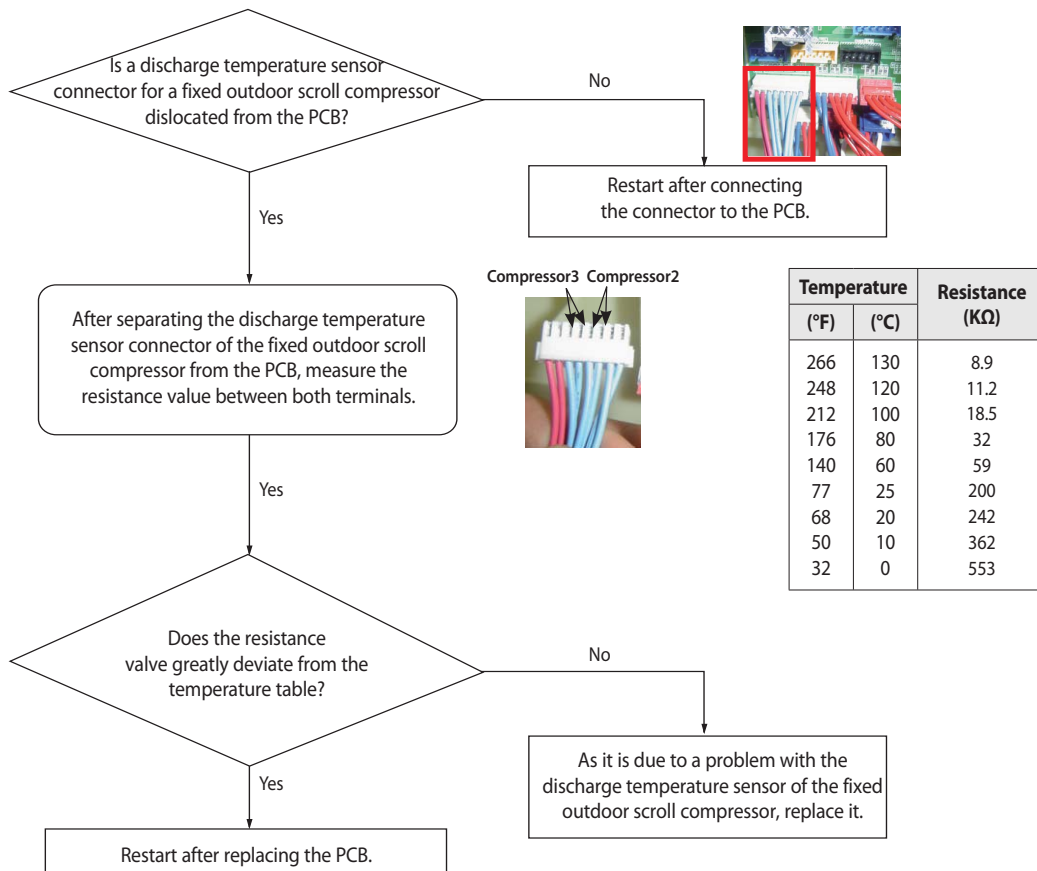
1. How to check



4-3-26 Discharge Temperature Sensor error for a fixed scroll Compressor (Open/Short)

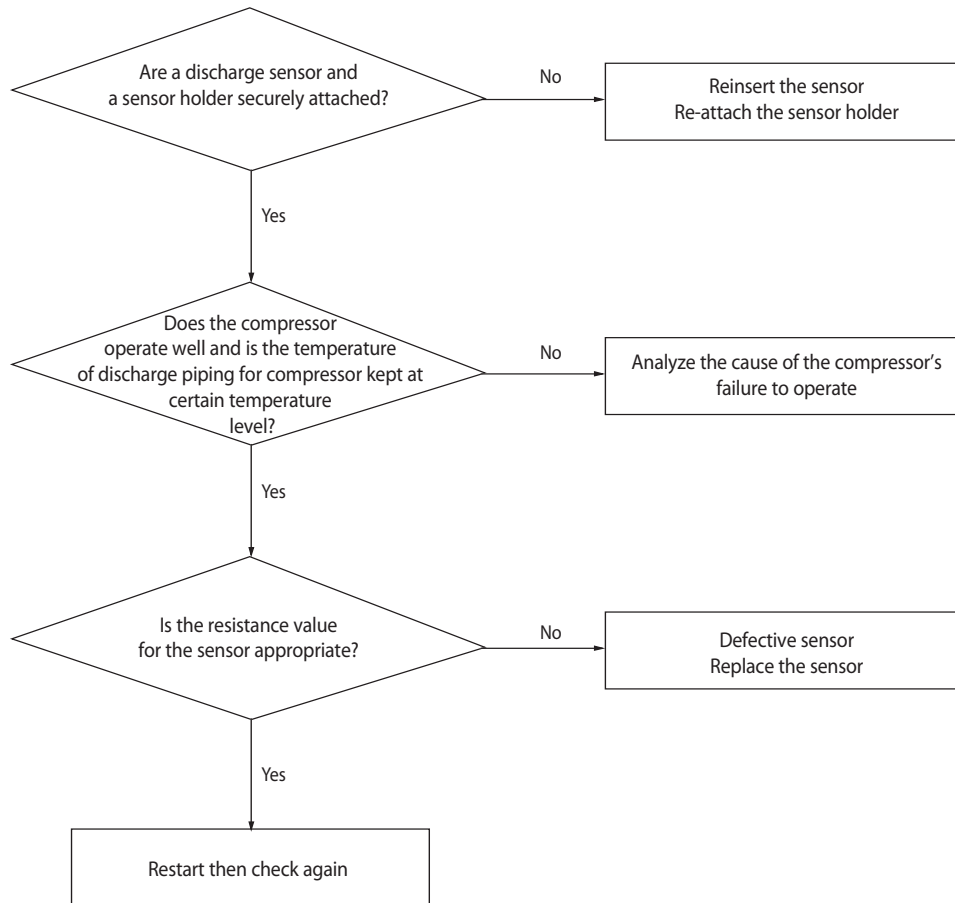
Outdoor unit display	<i>E257, E258</i> (Compressor 2, Compressor 3)
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Fixed scroll compressor's discharge temperature sensor OPEN/SHORT defective

1. How to check



4-3-27 Compressor's Discharge Temperature Sensor dislocation error

1. How to check



4-3-28 *E265* : Dislocation error of Compressor SUMP Temperature (oil temperature) Sensor

Outdoor unit display	<i>E265</i> (digital compressor or fixed compressor 1)
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Sump (oil) temperature sensor dislocation error

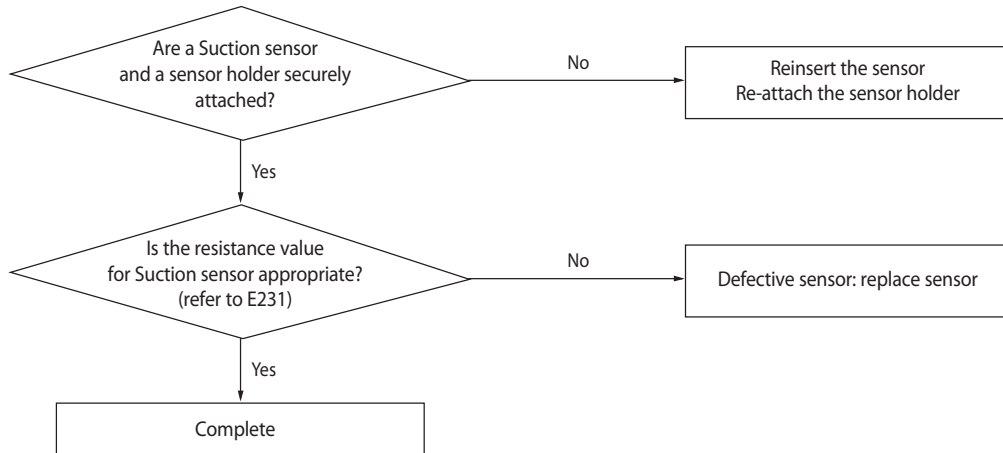
1. How to diagnose
 - 1) If the Sump temperature right before the start of compressor = Tsump.ini, current compressor's SUMP temp =Tsump. real,
 When the difference between Tsump.ini and Tsump.real is an absolute value so that it cannot be more than 35.6°F/2°C,
 In other words, the condition of Tsump.real-Tsump.ini<35.6°F/2°C has been satisfied for 60 minutes since a compressor started,
 it is diagnosed as an error.
 After 60 minutes of compressor operation, there will be no Sump sensor dislocation detection.

2. How to check
 - 1) Check if a sensor of the relevant compressor has been dislocated in accordance with error code, assemble and correct the error.

4-3-29 E269 : Dislocation error of Suction Temperature Sensor

Outdoor unit display	E269
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• The suction temperature of compressor right before its operation = $T_{suc.ini}$, current temperature of compressor = $T_{suc, real}$, if the condition of $T_{suc.real} - T_{suc.ini} < 35.6^{\circ}F$ kept for 30 minutes, it is diagnosed as error
Cause of problem	• Suction temperature sensor dislocation error

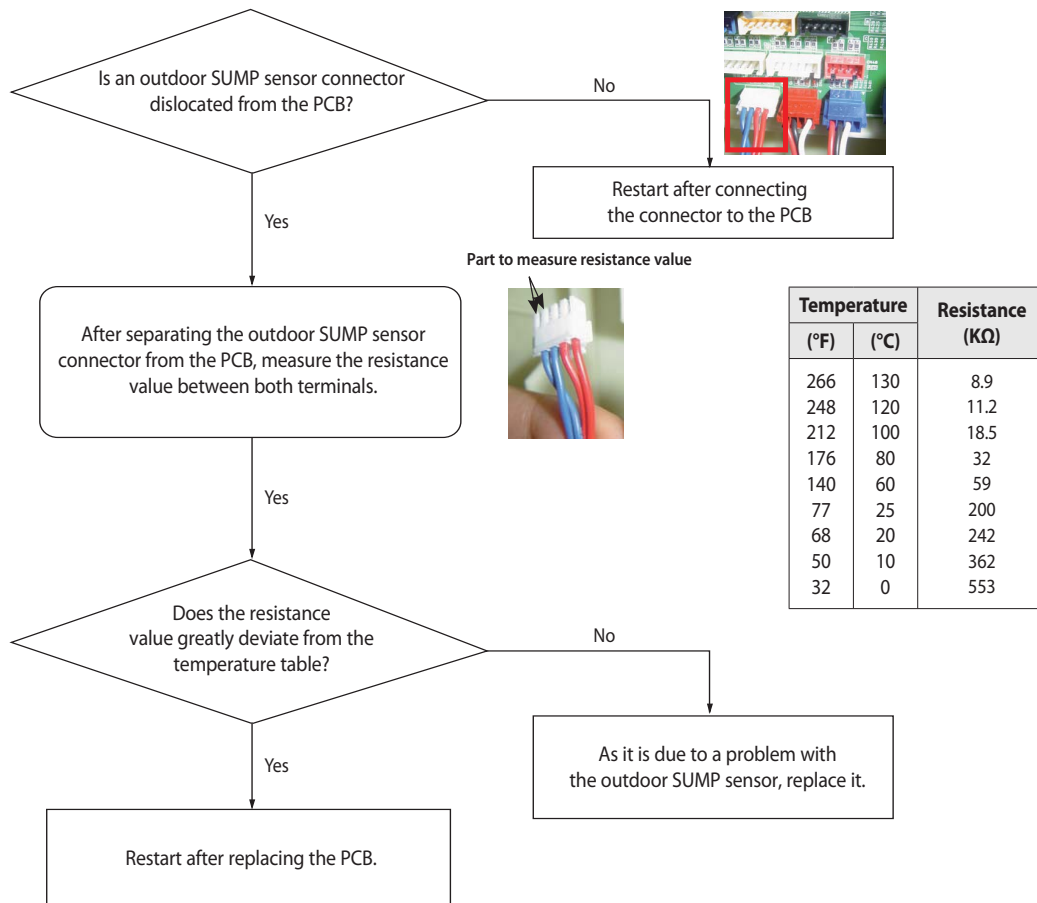
1. How to check



4-3-30 SUMP Temperature Sensor error (Open/Short)

Outdoor unit display	E271
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

1. How to check



4-3-31 High Pressure Temperature Sensor error (Open/Short)

Outdoor unit display	<i>E291</i>
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

■ **How to detect OPEN/SHORT error in Low/High pressure sensor**

1. During oil retrieval, omit the error detection and start detecting 5 minutes after complete operation.
2. During safety start operation, omit the error detection and start detecting 5 minutes after complete operation.
3. During defrost operation, omit the error detection and start detecting 5 minutes after complete operation
4. SHORT error detection: carry out error detection only if it is under 0.4V.
5. During refrigerant refill/retrieval, omit low pressure sensor error detection.

4-3-32 Low Ppressure Temperature Sensor error (Open/Short)

Outdoor unit display	<i>E296</i>
Indoor unit display	●(Operation) ●(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

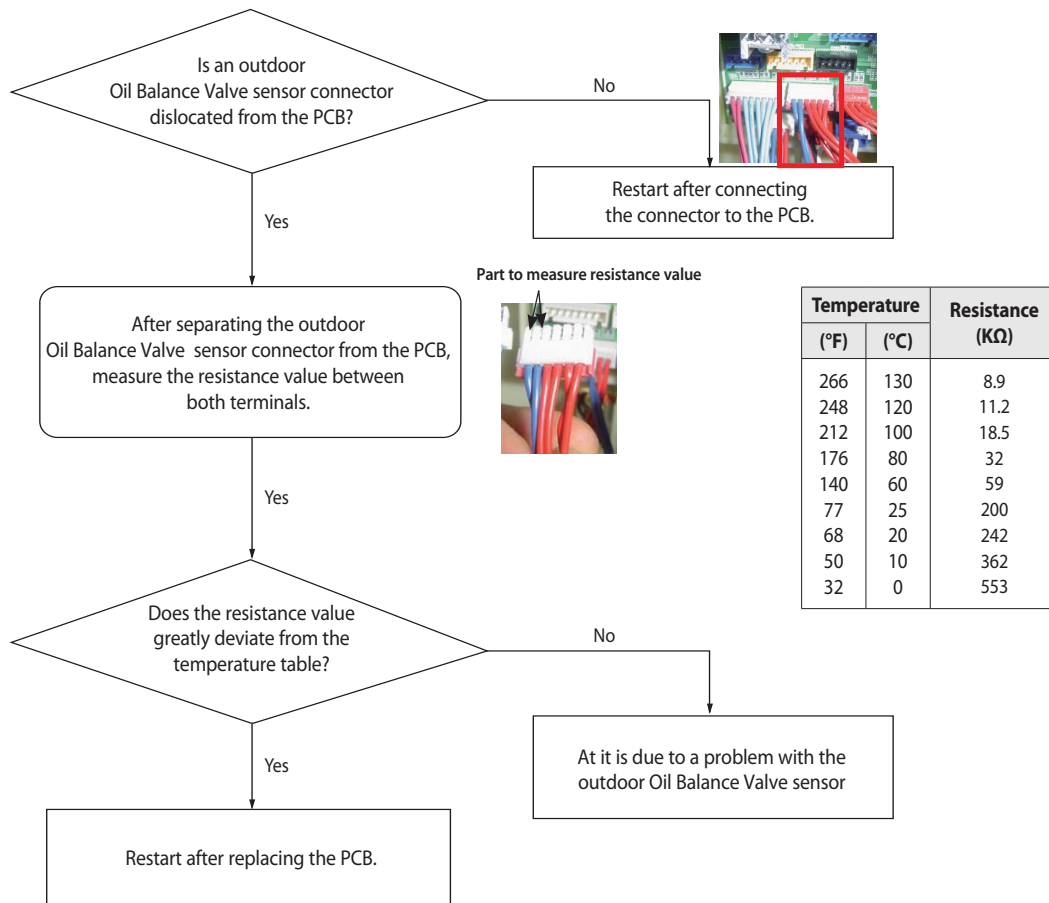
■ **How to detect OPEN/SHORT error in Low/High pressure sensor**

1. During oil retrieval, omit the error detection and start detecting 5 minutes after complete operation.
2. During safety start operation, omit the error detection and start detecting 5 minutes after complete operation.
3. During defrost operation, omit the error detection and start detecting 5 minutes after complete operation
4. SHORT error detection: carry out error detection only if it is under 0.4V.
5. During refrigerant refill/retrieval, omit low pressure sensor error detection.

4-3-33 Oil Balance Valve Temp. Sensor error (Open/Short)

Outdoor unit display	E307
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

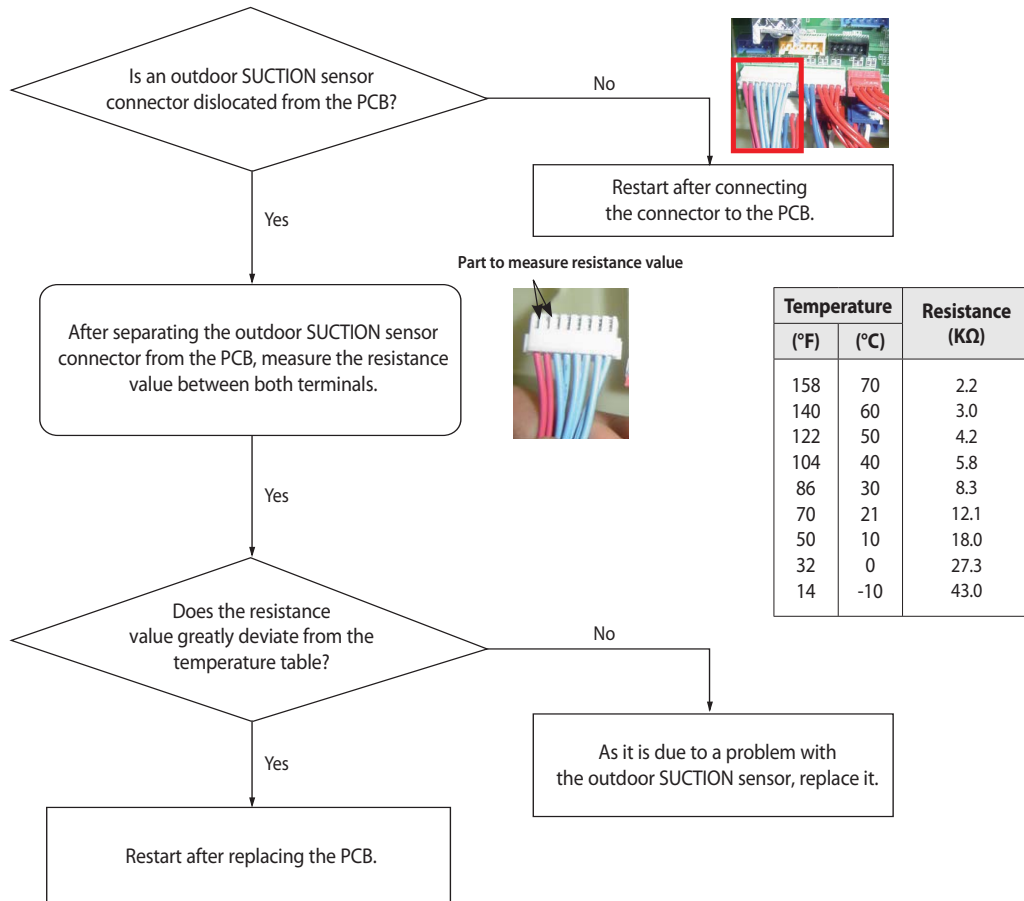
1. How to check



4-3-34 SUCTION Temperature Sensor error (Open/Short)

Outdoor unit display	E308
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

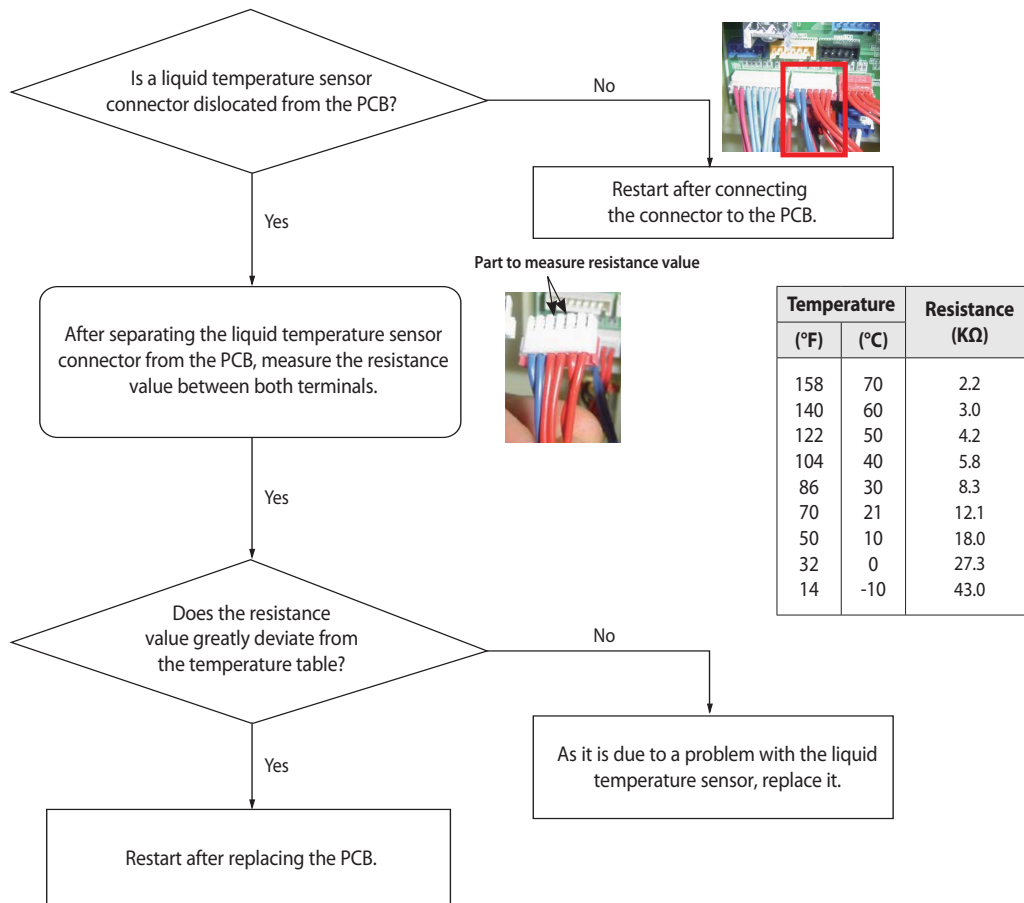
1. How to check



4-3-35 Double pipe temperature sensor error

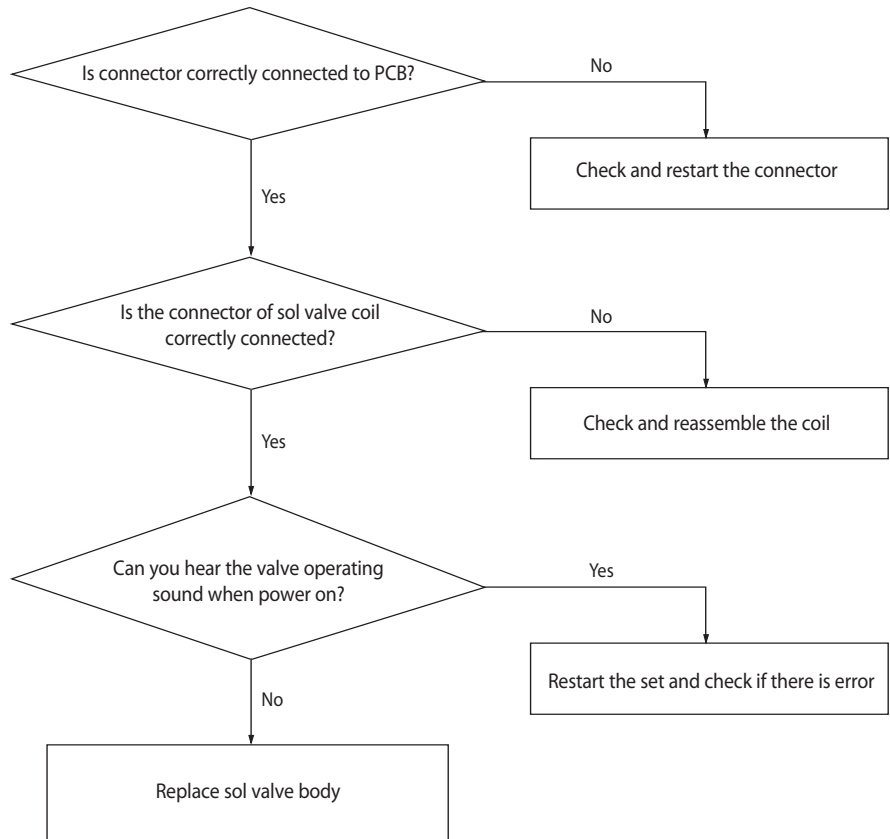
Outdoor unit display	E311
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

1. How to check



4-3-36 Main Cooling Sol Valve Open Error

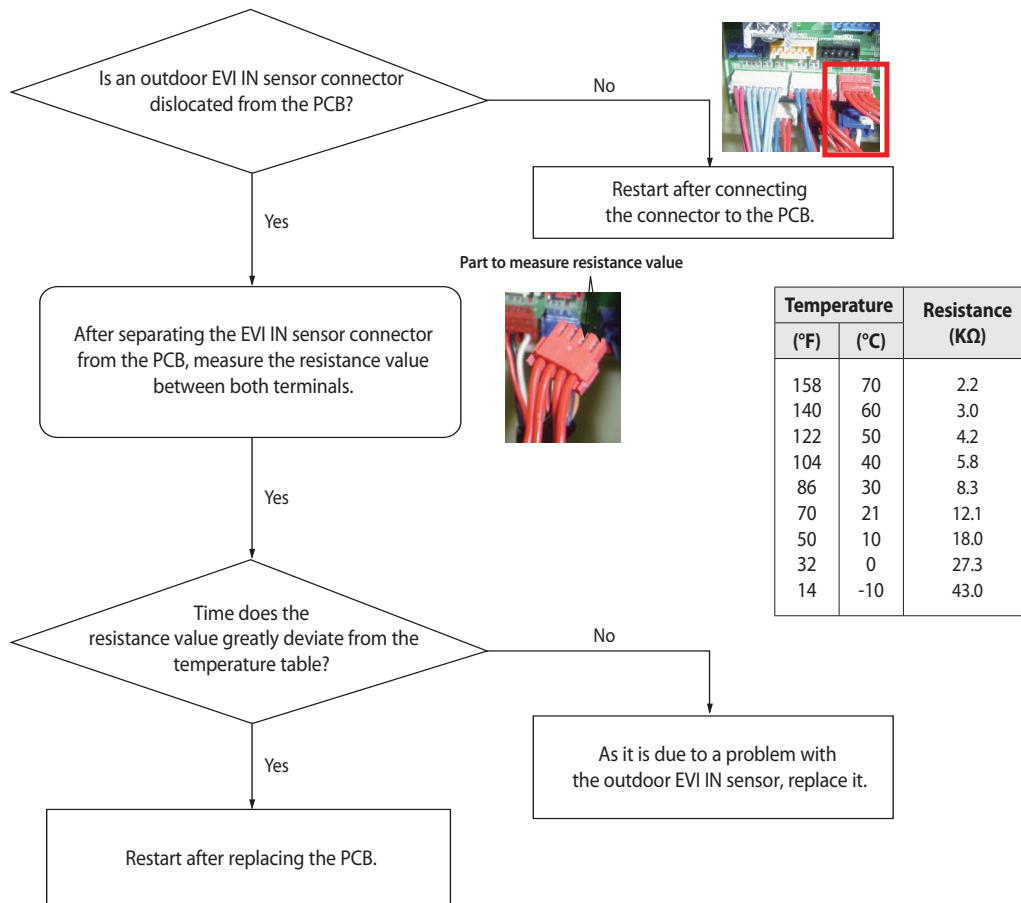
1. How to check



4-3-37 EVI IN Temperature Sensor error (Open/Short)

Outdoor unit display	E321
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

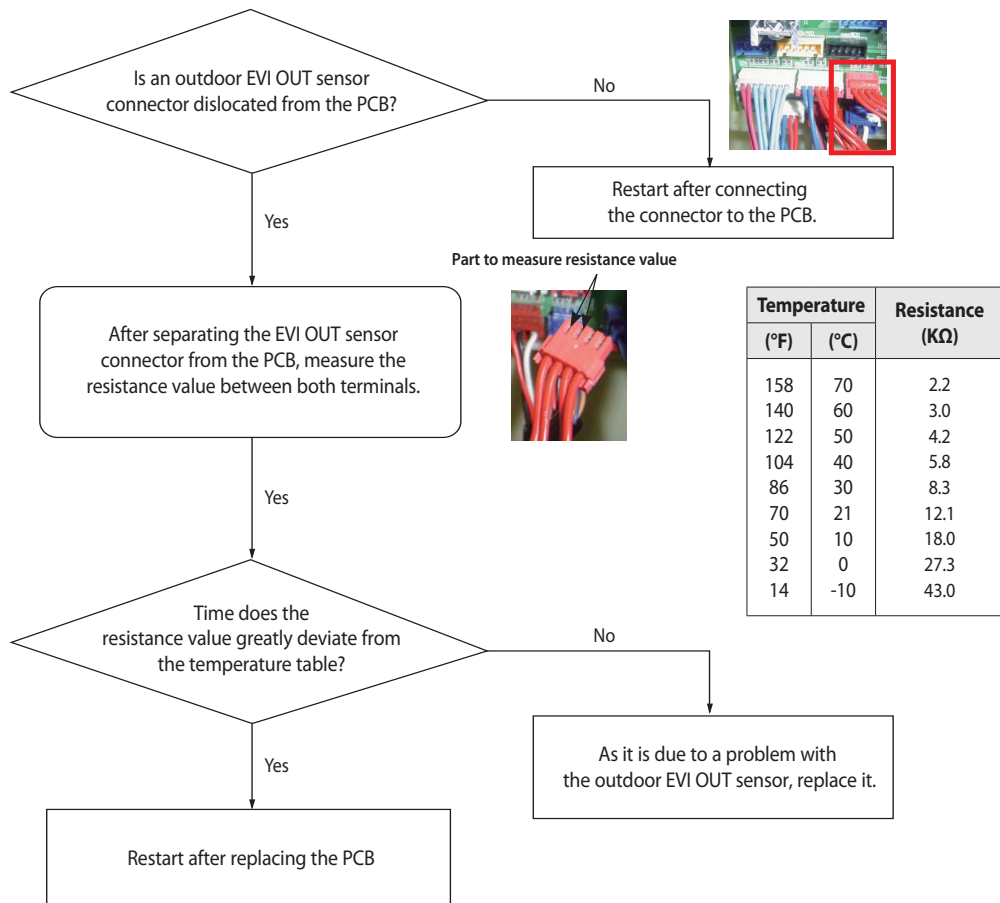
1. How to check



4-3-38 EVI OUT Temperature Sensor error (Open/Short)

Outdoor unit display	E322
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

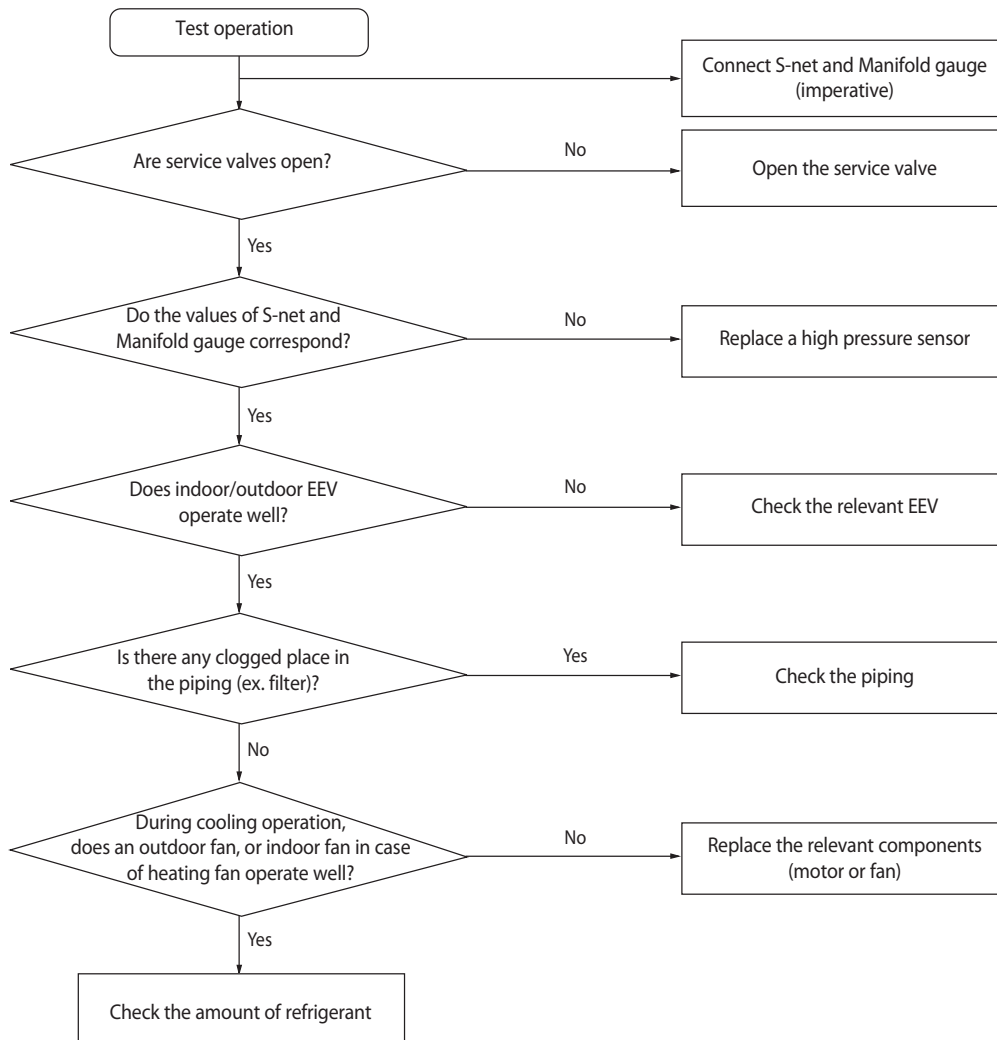
1. How to check



4-3-39 E407 : Comp. Down due to a Protective Control of High pressure

Outdoor unit display	E407
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Detect when the value of high pressure sensor is over 4.0MPa
Cause of problem	<p><During cooling operation></p> <ul style="list-style-type: none"> • Problem with Outdoor unit fan motor (stall, defect) <ul style="list-style-type: none"> • Motor driver defect or wire-breaking • Defective SSR for fan control • Outdoor heat exchanger contamination • Locked service valve/excessive refrigerant <p><During heating operation></p> <ul style="list-style-type: none"> • Problem with Outdoor unit fan motor (stall, defect) <ul style="list-style-type: none"> • Defective fan motor capacitor or wire-breaking • Locked service valve/excessive refrigerant

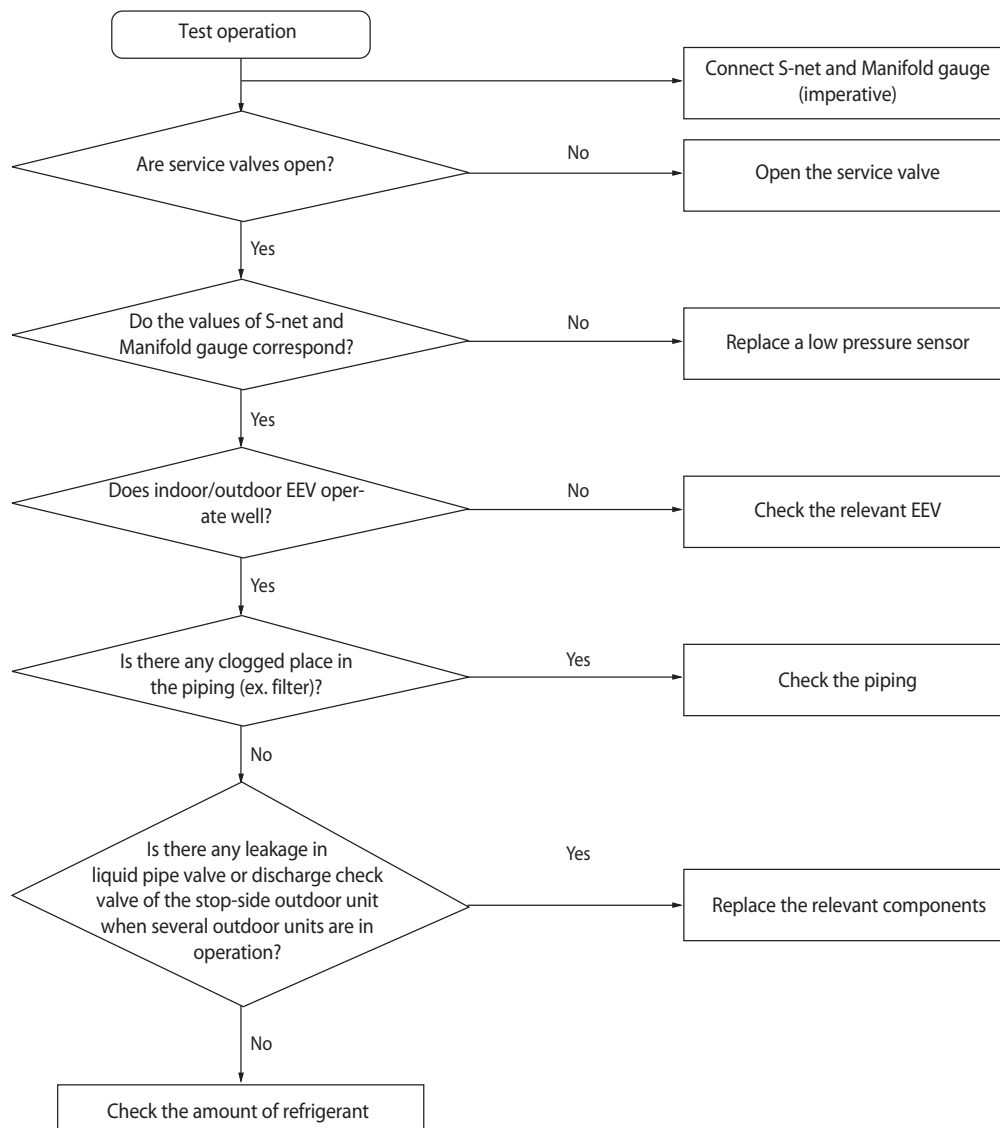
1. How to check



4-3-40 E4 10 : Comp. Down due to a Protective Control of Low Pressure

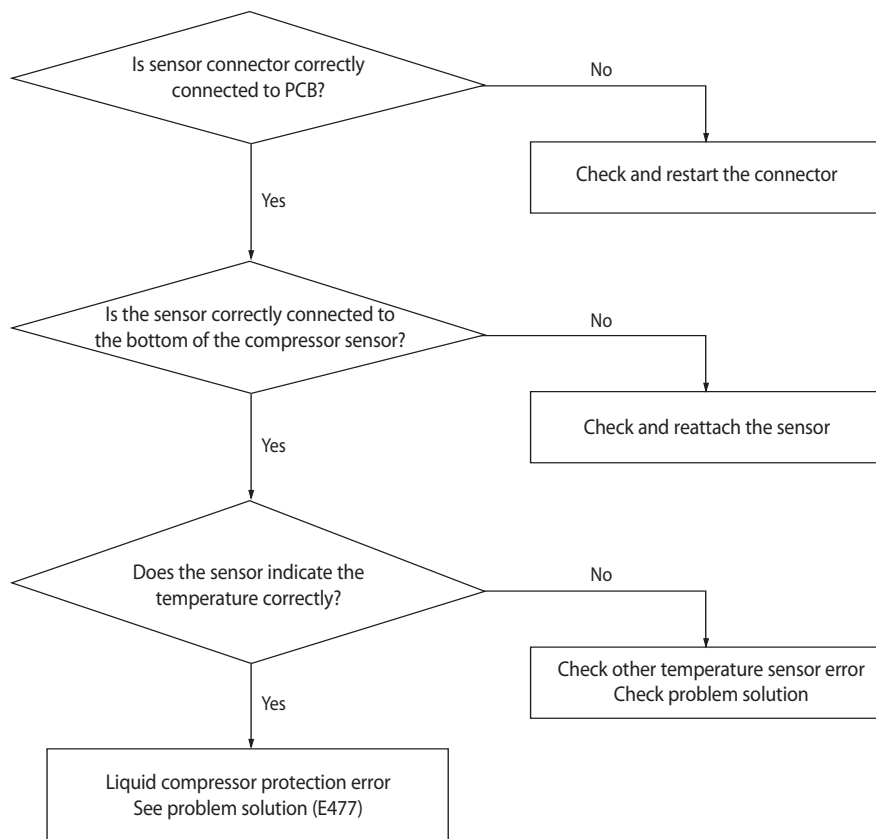
Outdoor unit display	E4 10
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	<ul style="list-style-type: none"> • Detect when the value of low pressure sensor is below 0.25MPa during cooling operation, 0.14MPa during heating operation
Cause of problem	<ul style="list-style-type: none"> • Insufficient refrigerant • Clogged service valve • Defective low pressure sensor • Leakage in discharge check valve of the compressor in the stop-side outdoor unit • When used in a temperature condition that does not fall within the usage condition (outdoor air temperature during heating operation –below 68°F/20°C, outdoor air temperature during cooling operation – below 23°F/-5°C), this error may occur • Clogged electronically operated valve • Compressor unloading defect

1. How to check



4-3-41 Protection Control by Sump Sensor Error

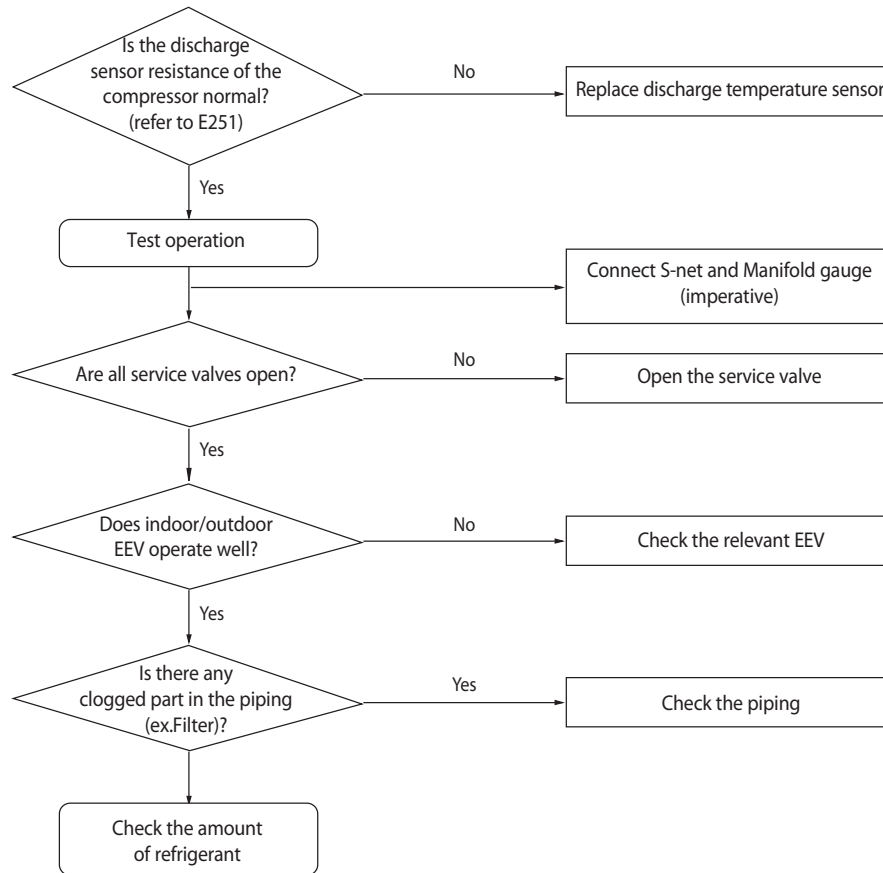
1. How to check



4-3-42 E416 : Comp. Down due to Discharge Temperature Sensor of a Compressor

Outdoor unit display	E416
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Detect when the value of compressor's discharge temperature sensor is over 275°F/135°C
Cause of problem	<ul style="list-style-type: none"> • Insufficient refrigerant • Clogged indoor & outdoor electronically operated valves • Clogged service valve • Defective discharge temperature sensor • clogged piping and/or filter • Liquid EEV breakdown • Liquid Tube valve breakdown • Leakage in discharge check valve of the compressor in the stop-side outdoor unit

1. How to check

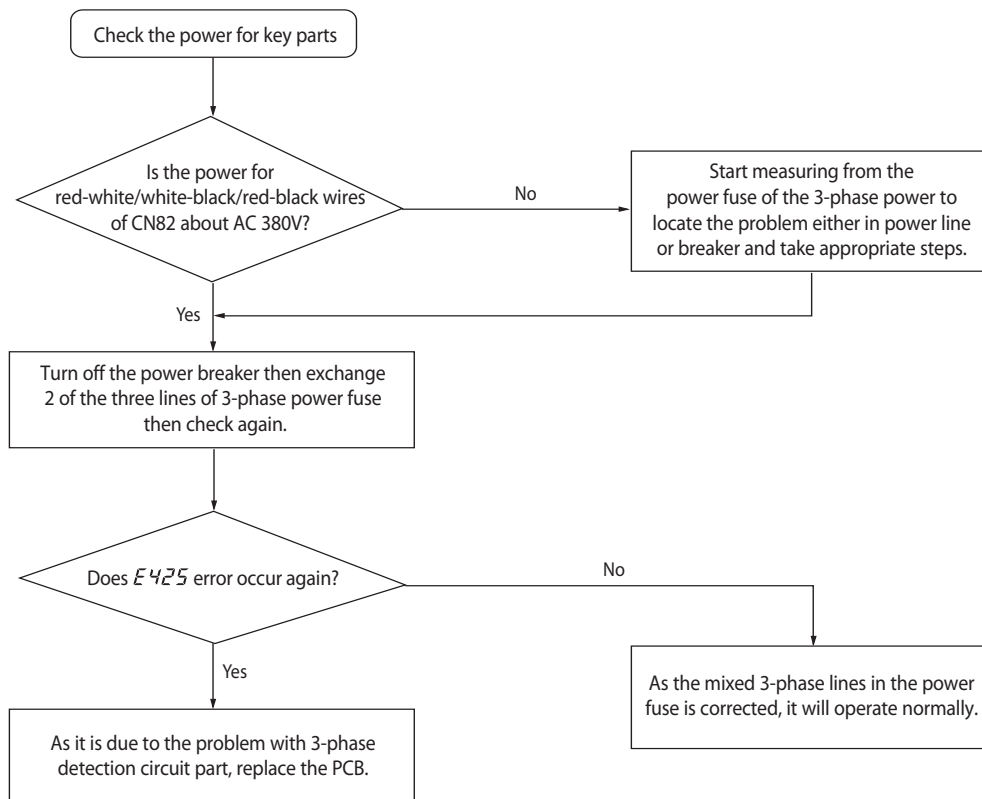


4-3-43 3 Detection of phase negative voltage sequence, Phase fail

Outdoor unit display	E425
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• When comparing the order of the wave form of the 3 phase detection circuit, there is mixed order or a failure to have one or all of phase power (When phase power is back to normal , E425 is automatically released)
Cause of problem	• 3-phase power L1(R), L2(S), L3(T) wire-breaking error • Missing input of 3-phase power

1. How to check

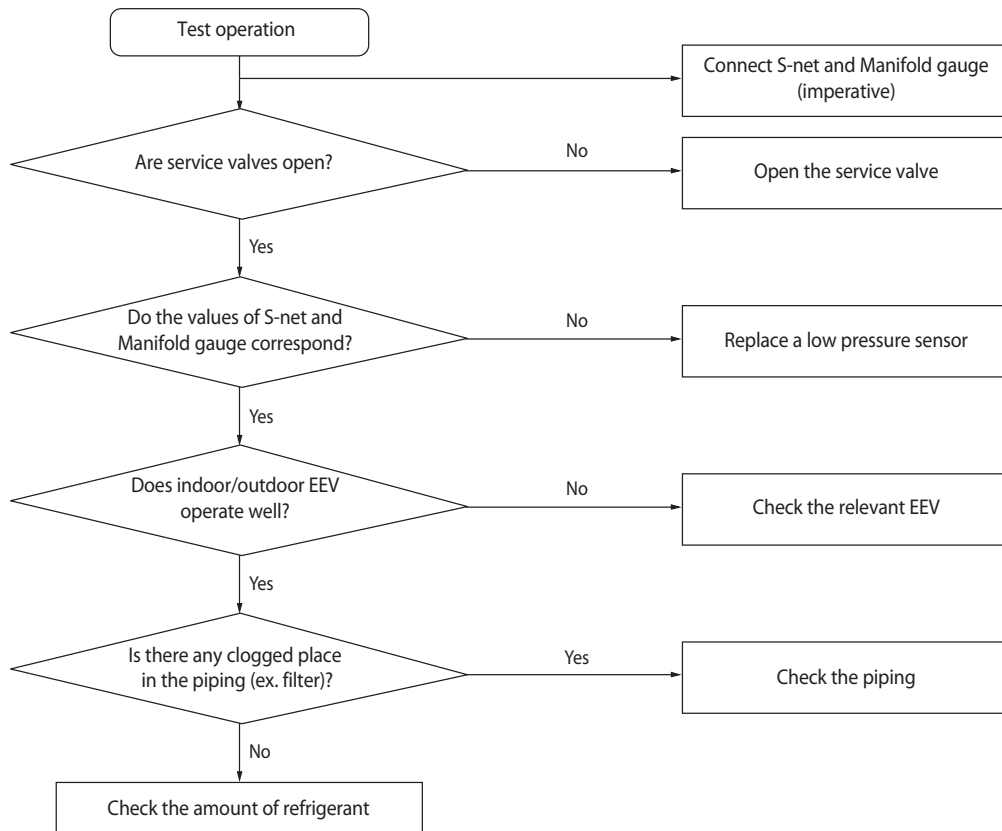
- 1) Check the 3-phase detection part power on the PCB of outdoor unit
- 2) The color of wire is red, white, and black for 3-phase detection part, respectively. (Please be careful not to mix the colors or order)



4-3-44 E428 : Comp. Down due to compression rate control

Outdoor unit display	E428
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• The ratio of (high pressure +1)/(low pressure +1) is over 8.5 for more than 10 minutes
Cause of problem	• Indoor/outdoor EEV breakdown and clogged piping / Defective high/low pressure sensor

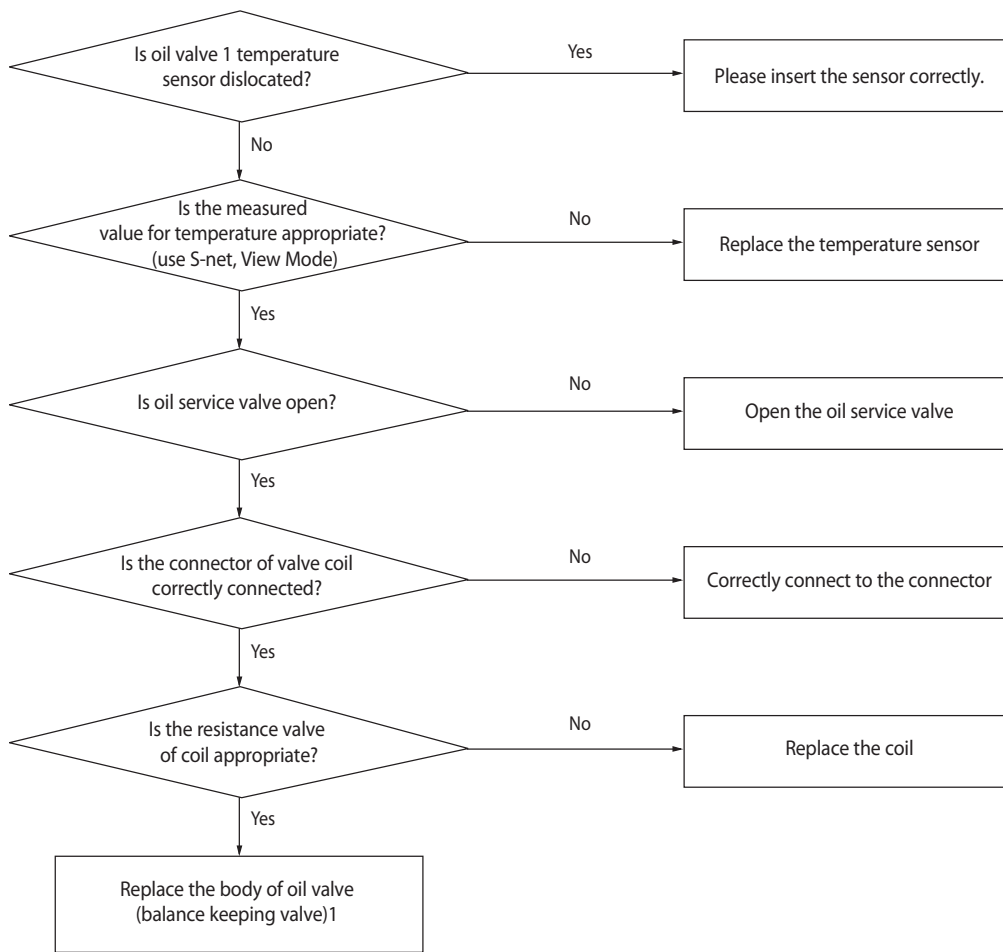
1. How to check




4-3-45 E431 : Self-diagnosis of Oil valve (balance keeping valve) 1 (open or closure breakdown, sensor dislocation or defect)

Outdoor unit display	E431
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	<ol style="list-style-type: none"> When only one outdoor unit is installed, it does not diagnose When more than 2 outdoor units are connected and exchange their oil, the oil valve (balance keeping valve) 1 is broken or temperature sensor of breakdown detection for balance keeping valve 1 is dislocated, the error is displayed. When temperature rises for more than 5bC after closing balance keeping valve 1 and opens hot gas bypass before entering a balance keeping operation, the error is displayed. At the stage of releasing oils during balance keeping operation, if there is less than 44.6°F/7°C temperature change after opening an oil valve (balance keeping valve) and opening the hot gas bypass, the error is displayed.
Cause of problem	<ul style="list-style-type: none"> Oil valve (balance keeping valve)'s temperature sensor dislocation Oil valve (balance keeping valve) breakdown Coil defect or terminal contact defect

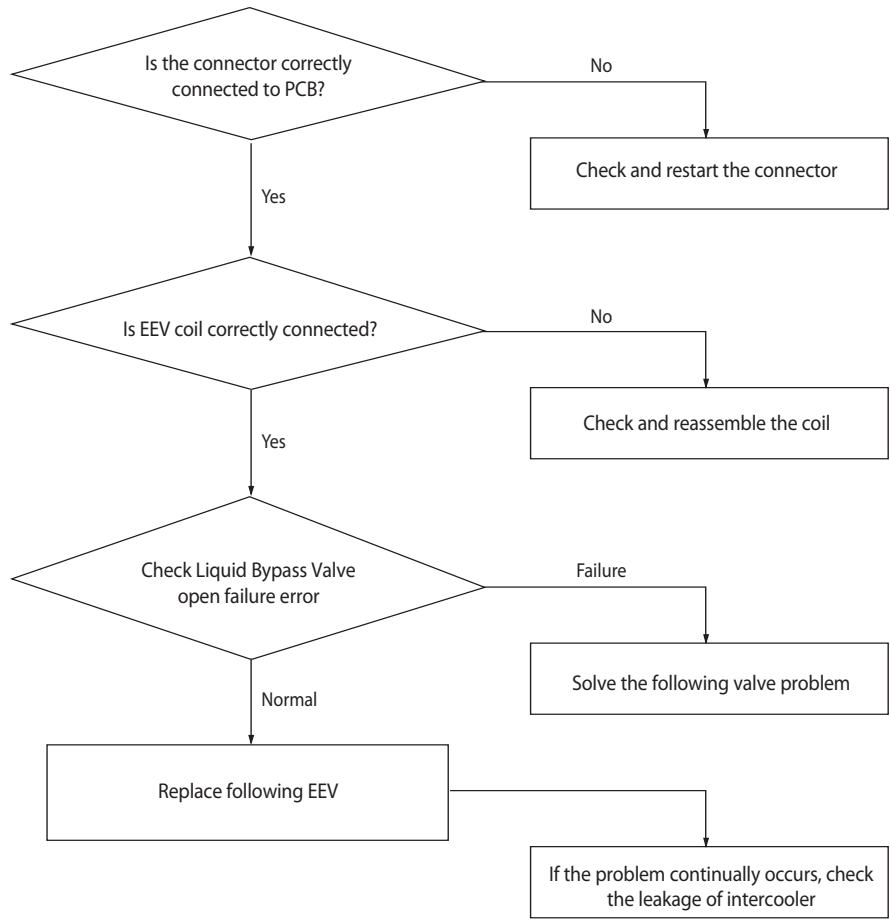
1. How to check



 ●When replacing an oil valve, never use a welder on the balance keeping piping but use a copper pipe cutter then proceed with the work. (Oil in the balance keeping piping might cause a fire.)

4-3-46 EVI EEV Open Error

1. How to check



4-3-47 E440, E442 : Prohibition of the operation of Compressor due to OutdoorTemperature

Outdoor unit display	E440 (prohibit heating operation in outdoor temperature over 86°F/30°C) E442 (prohibit heat filling operation in outdoor temperature over 59°F/15°C)
Indoor unit display	No sign
Criteria	E440 : Right before an outdoor unit starts heating operation by On signal of an indoor Remocon, the error occurs and prohibits the operation in outdoor temperature over 86°/30°C E442 : Right before operating heat refrigerant filling mode by the K1 switch of an outdoor PCB, the error occurs and prohibits the operation in outdoor temperature over 59°F/15°C
Cause of problem	• Operation Prohibition mode by the indoor temperature limit

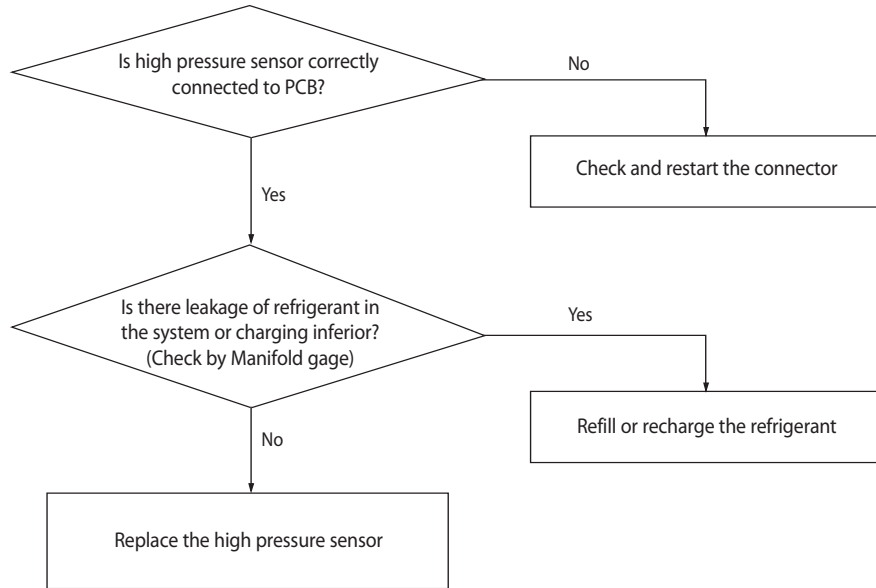
1. How to check

The above error code is not caused by a product's problem but a function to protect the product by limiting the available temperature range so please refer to the usable temperature range in the product manual.

If the error code is displayed despite a condition that does not belong to any of the above diagnosis methods, read the temperature sensor value of the outdoor inlet air with View Mode or S-net, and if the actual outdoor temperature is different, please replace the temperature sensor.

4-3-48 High Pressure below the Average before Cooling (Unable to Restart)

1. How to check



4-3-49 Instantaneous Blackout

Outdoor unit display	E452
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Temporary stop of a compressor due to instantaneous blackout
Cause of problem	• Temporary stop of a compressor due to instantaneous blackout

4-3-50 Error by High Temperature in an Outdoor Fan Motor

Outdoor unit display	E453
Indoor unit display	-
Criteria	• When an operating outdoor fan motor is overheated for more than 230°F/110°C
Cause of problem	• Indoor fan motor lock or defect

1. How to check

- 1) As it is a function that is programmed to protect overheating or motor protection, lower the rotational frequency of the motor to cool it down, there would be no problem as long as the motor operates.
- 2) Check if outdoor fan motor rotates or is locked
- 3) If it is locked, it is possible to operate by removing the cause of the lock

4-3-51 RPM Error of an Outdoor Fan Motor

Outdoor unit display	E454
Indoor unit display	-
Criteria	• When an operating outdoor fan motor's rotational frequency is more than 100rpm difference
Cause of problem	• Outdoor fan motor lock or defect

1. How to check

- 1) Error signal can occur for the operational problem. As it is programmed to try to restart several times to operate the motor, if motor is operating, there would be no problem.
- 2) Check if outdoor fan motor rotates or is locked
- 3) Check the motor, the contact status of the signal terminal
- 4) If motor does not operate, it is due to a motor defect.

4-3-52 Over-Voltage Error of an Outdoor Fan Motor

Outdoor unit display	<i>E456</i>
Indoor unit display	-
Criteria	• When the current of an operating outdoor fan motor is more than 7A for 1 minute
Cause of problem	• Outdoor fan motor lock or defect • Occurs by abrupt start or overload

1. How to check
 - 1) Check if outdoor fan motor rotates or is locked
 - 2) If it is not locked, the above error occurs due to overload and signals by abnormal operation, and it indicates the overload status. Thus, it is not breakdown.
 - 3) Need to check if there is a problem with fan load status

4-3-53 Counter-Rotation Error of an Outdoor Fan Motor

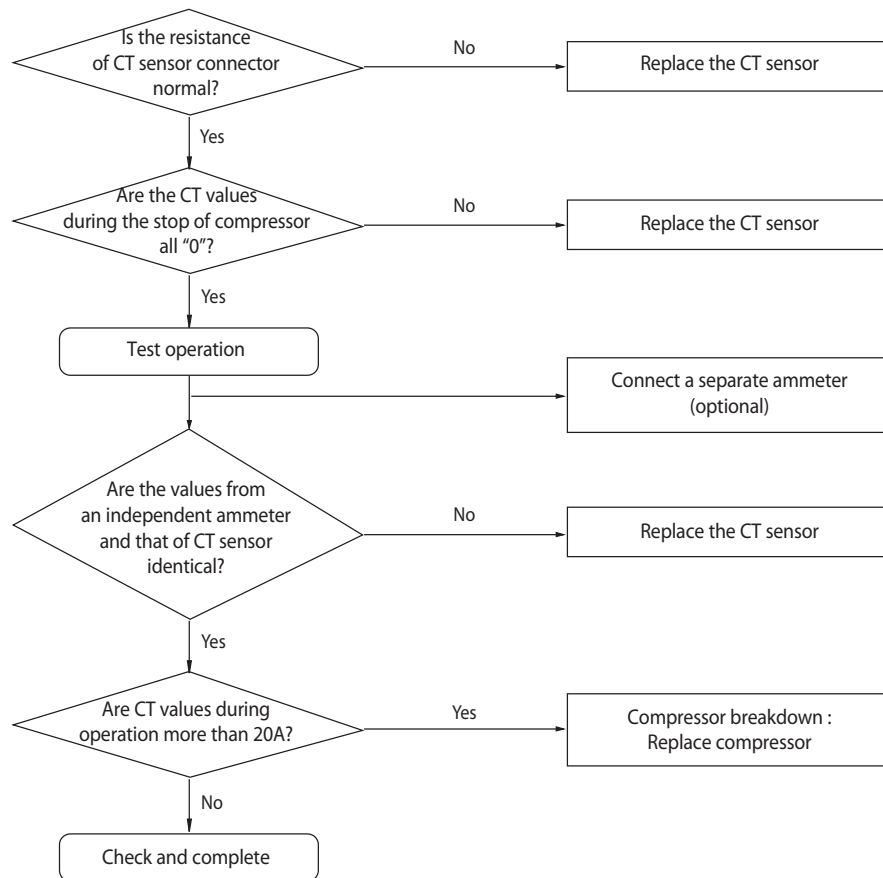
Outdoor unit display	<i>E457</i>
Indoor unit display	-
Criteria	• When the rotational direction of an outdoor fan motor is counter-clockwise before operating
Cause of problem	• Due to wind that can run the fan counter-wise

1. How to diagnose
 - 1) Check if the start instruction of outdoor unit's fan is counter-clockwise
2. How to check
 - 1) It is a signal to protect a motor by checking the operational condition of the outdoor unit's fan motor without power so as not to operate it in counter-clockwise condition.
 - 2) Check if there is wind strong enough to force a fan to rotate counter-clockwise where the outdoor unit is installed.

4-3-54 E45B : Over-voltage error of Compressor

Outdoor unit display	E45B
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Display the error when the CT sensor value of the relevant compressor is over 20A for 3 minutes or more
Cause of problem	• Compressor breakdown / defective CT sensor

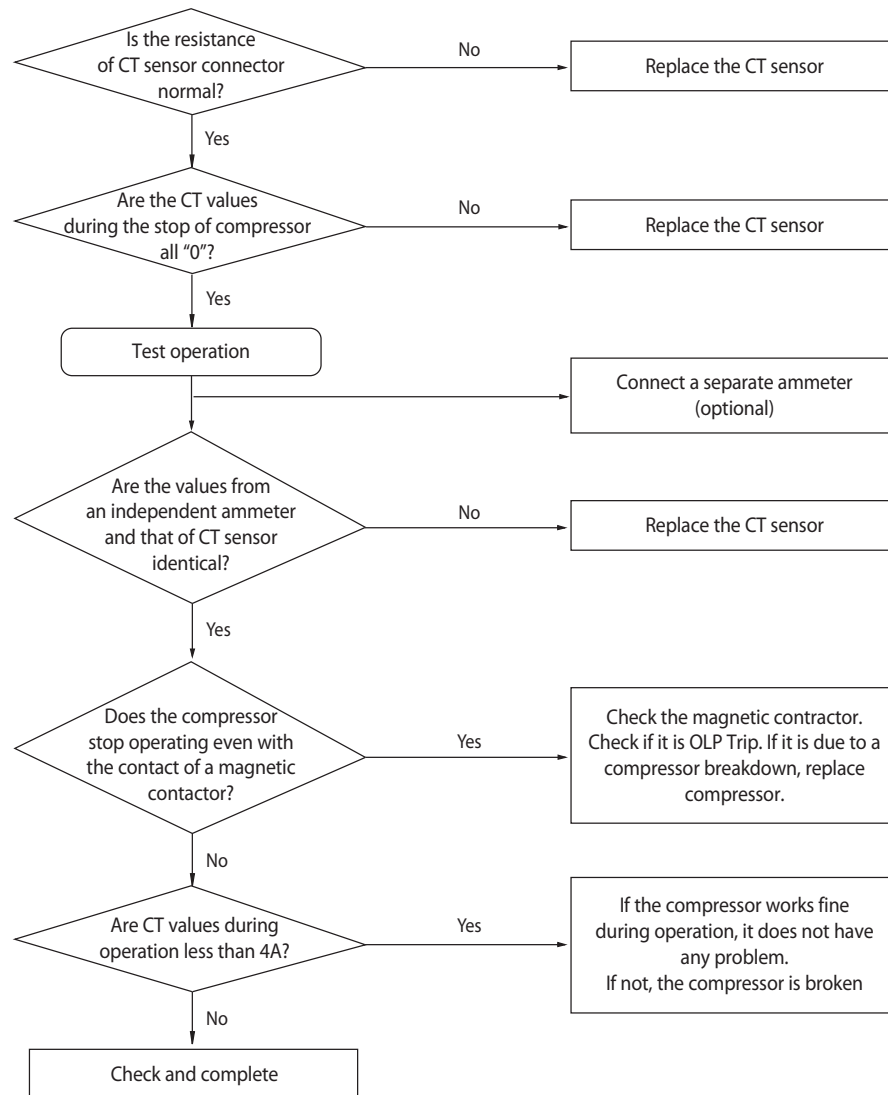
1. How to check



4-3-55 E461: Low-amperage error of Compressor

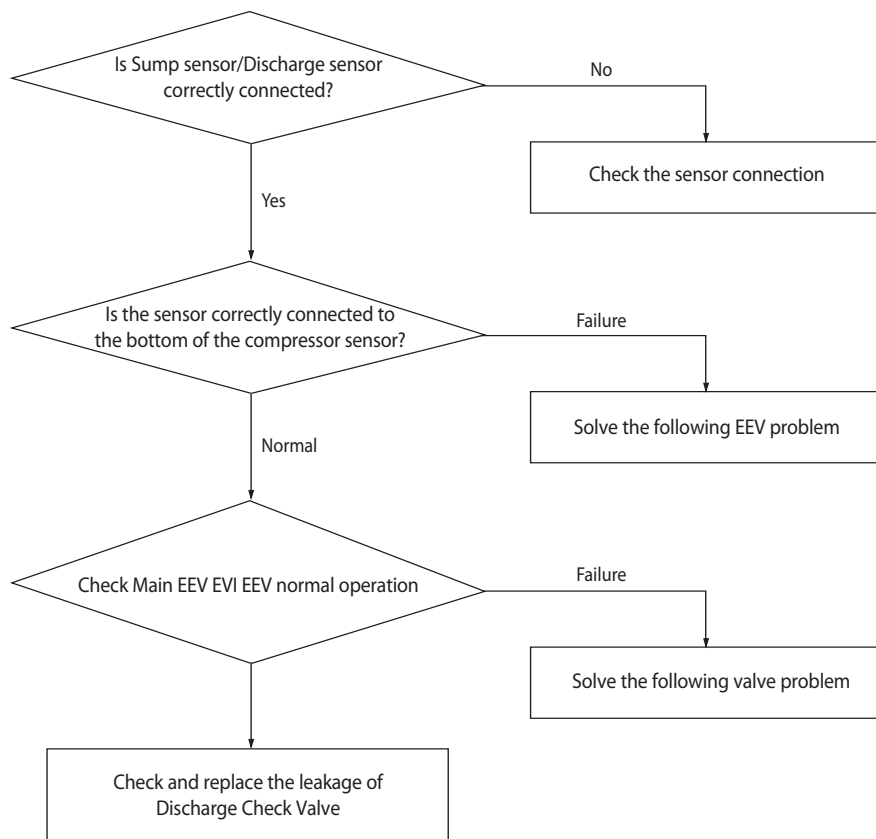
Outdoor unit display	E461 (Compressor 1, Compressor 2, Compressor 3)
Indoor unit display	No signal
Criteria	<ul style="list-style-type: none"> • Display the error when the CT sensor value of the relevant compressor is below 4A for five hours or more. • When it operates as 1A for more than 1 minute, reset timer
Cause of problem	<ul style="list-style-type: none"> • Compressor breakdown/defective CT sensor/OLP Trip

1. How to check



4-3-56 Liquid Compressor Protection Control

1. How to check



4-3-57 Breakdown of an EEV(1st)

1. How to diagnose

Detect only on cooling operation. (No detection during heating operation.)

During cooling operation, the temperature of the inlet or outlet ducts of heat exchanger is kept lower than 32°F for more than 20 minutes without cessation

2. How to check

1) Check if the wire of an electronic expansion valve is correctly connected to the PCB of indoor unit.

2) Check if the coil of an electronic expansion valve is correctly plugged into the main body.

3) Check if there is any rust on the surface of the coil of an electronic expansion valve with the naked eye, and then check the resistance between each terminal to find any wire breaking or short circuit.

4) Press the RESET KEY (K3) of the outdoor unit then see if the same error occurs.

- In case of closure problem, operate the indoor unit in which the error has occurred.

- In case of opening problem, please do not operate the indoor unit in which the error has occurred.

5) If there is no problem with the above checkup items, replace the electronic expansion valve of the troubled indoor unit.

- As an electronic expansion valve replacement is tricky work that requires collecting refrigerants in all systems, please make sure to check the above items before replacement.

4-3-58 Breakdown of an EEV closure(1st)

1. How to diagnose

1) During cooling operation (It must satisfy each of the following conditions for over 20minutes.)

Tcond, out - Tair, out > 37.4°F/3°C	OK
Tair, in - Teva, out > 39.2°F/4°C	NO
Tair, in - Teva, out > 39.2°F/4°C	NO
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	EEV closure breakdown

2) During heating operation (must satisfy each of conditions below)

- When more than 2 indoor units are on Thermo On heating operation.
- When average high pressure is over 1.77MPa
- 5 minutes after finishing Safety Start
- Keep Indoor units' $T(Eva_In) < T(Room) + 37.4°F/3°C$ and $T(Eva_Out) < T(Room) + 37.4°F/3°C$ condition for more than five minutes

2. How to check

- 1) Check if the wire of an electronic expansion valve is correctly connected to the PCB of indoor unit.
- 2) Check if the coil of an electronic expansion valve is correctly plugged into the main body.
- 3) Check if there is any rust on the surface of the coil of an electronic expansion valve with the naked eye, and then check the resistance between each terminal to find any wire breaking or short circuit.
- 4) Press the RESET KEY (K3) of the outdoor unit then see if the same error occurs.
 - In case of closure problem, operate the indoor unit in which the error has occurred.
 - In case of opening problem, please do not operate the indoor unit in which the error has occurred.
- 5) If there is no problem with the above checkup items, replace the electronic expansion valve of the troubled indoor unit.
 - As an electronic expansion valve replacement is tricky work that requires collecting refrigerant in all systems, please make sure to check the above items before replacement.

4-4 How to take measures for each symptom(Model : RD040/050MHXCA)

■ Error display

Error mode	Cause	Measures to take	Product's operation condition during error(Main parts status)			Diagnosis method	
			Frequency	Outdoor unit status	Error occurred indoor unit.		Other indoor units
121	Dislocation of indoor temp. sensor connector Wire breaking of indoor temp. sensor Defective indoor temp. sensor	<ul style="list-style-type: none"> • Check if the wire of indoor temp. sensor is broken • Check if there is any problem in indoor temp sensor connection circuit and in sensor 	1	Normal operation	Operation off	Normal operation	page 4-97
122	Dislocation of In-sensor connector in IU's heat exchanger In-sensor wire breaking in IU's heat exchanger Defective In-sensor in IU's heat exchanger	<ul style="list-style-type: none"> • Check if the wire of in-temp sensor of IU heat exchanger is broken • Check if there is any problem in in-temp. sensor connection circuit and sensor of IU heat exchanger 	1	Normal operation	Operation off	Normal operation	page 4-98
123	Dislocation of Out-sensor connector in IU's heat exchanger Out-sensor wire breaking in IU's heat exchanger Defective Out-sensor in IU's heat exchanger	<ul style="list-style-type: none"> • Check if the wire of Out-temp sensor of IU heat exchanger is broken • Check if there is any problem in Out-temp. sensor connection circuit and sensor of IU heat exchanger 	1	Normal operation	Operation off	Normal operation	page 4-99
128	IU's heat exchanger in sensor dislocation error	<ul style="list-style-type: none"> • Check if the in sensor of IU's heat exchanger is dislocated • Check if the holder of in sensor of IU's heat exchanger is attached 	1	Normal operation	Operation off	Normal operation	page 4-100
129	IU's heat exchanger out sensor dislocation error	<ul style="list-style-type: none"> • Check if the out sensor of IU's heat exchanger is dislocated • Check if the holder of out sensor of IU's heat exchanger is attached 	1	Normal operation	Operation off	Normal operation	page 4-101
130	Simultaneous IU's heat exchanger in/out sensor dislocation error	<ul style="list-style-type: none"> • Check if the in/out sensor of IU's heat exchanger is dislocated • Check if the holder of in, out sensor of IU's heat exchanger is attached 	1	Normal operation	Operation off	Normal operation	page 4-102
151	The 2nd opening error of indoor electrically operated valve	<ul style="list-style-type: none"> • Check the PCB connection of electrically operated valve wire • Check the sealing condition of electrically operated valve • Check if there is any external rust, internal breakage/short circuit on the coil • After resetting OUI(K3), re-check if error occurs again • Replace electrically operated valve if the breakdown is confirmed 	2	Operation off	Operation off	Normal operation	page 4-103
152	The 2nd closing error of indoor electrically operated valve	<ul style="list-style-type: none"> • Check the PCB connection of electrically operated valve wire • Check the sealing condition of electrically operated valve • Check if there is any external rust, internal breakage/short circuit on the coil • After resetting OUI (K3), re-check if error occurs again • Replace electrically operated valve if the breakdown is confirmed 	2	Operation off	Operation off	Normal operation	page 4-104
153	Indoor floating sensor error	<ul style="list-style-type: none"> • Check if the wire of indoor floating sensor is broken • Check if the wire of drain pump is broken • Check if the drain pump operates well 	1	Operation off	Operation off	Normal operation	page 4-105
154	Indoor fan error	<ul style="list-style-type: none"> • Check the feedback connection line • Check the rotational output of the fan motor • Check if the motor operates well 	1	Normal operation	Operation off	Normal operation	page 4-106
161	Mixed operation error	<ul style="list-style-type: none"> • When additional indoor unit is under heating operation during cooling operation for outdoor unit or other indoor unit • When additional indoor unit is under cooling operation during heating operation for outdoor unit or other indoor unit • Applied only to Heat Pump model (no mixed operation error for HR model) • Due to wrong indoor unit operation order and stop or change an operational mode for the relevant indoor unit 	1	Normal operation	Operation off	Normal operation	page 4-107
162	Defective EEPROM part Defective EEPROM circuit	<ul style="list-style-type: none"> • Check if there is wire breaking/nonwetting/dewetting of circuits around EEPROM parts 	1	Normal operation	Operation off	Normal operation	page 4-108

■ Error display (cont.)

Error mode	Cause	Measures to take	Product's operation condition during error(Main parts status)				Diagnosis method
			Frequency	Outdoor unit status	Error occurred indoor unit.	Other indoor units	
163	Indoor unit remote controller option input is wrong/hot entered.	<ul style="list-style-type: none"> • Re-enter remote controller option 	1	Normal operation	Operation off	Normal operation	page 4-109
170	Mixed use of Fahrenheit/Celsius setup (occurs in indoor unit with Celsius setup)	<ul style="list-style-type: none"> • Input Celsius options in the remote controllers for error free indoor units (Celsius using regions) 	1	Normal operation	Operation off	Normal operation	page 4-109
185	Power input Error into indoor unit comm. line	<ul style="list-style-type: none"> • Reconfirm the indoor unit comm. line connection – power line input 	1	Operation off	Operation off	Operation off	page 4-109
201	Comm. Error among indoor units and outdoor units after completing initial tracking Inconsistency between the number of setup IUs and the unit number setup switches	<ul style="list-style-type: none"> • Check the comm. lines between Indoor/outdoor units • Check the setup address switch on the indoor unit's PCB • Check IJ No. setup switch on the outdoor unit's PCB 	1	Operation off	Operation off	Operation off	page 4-110
202	Comm. Error among all IUs	<ul style="list-style-type: none"> • Check the comm. lines between Indoor/outdoor units • Check the main/sub unit setup switch • Check the number of indoor unit setting switch on the outdoor unit PCB 	1	Operation off	Operation off	Operation off	page 4-111
203	Comm. Error between main & sub outdoor units Comm. Error between main & sub Mcoms	<ul style="list-style-type: none"> • Check the comm. lines between outdoor units • Check the Main/Sub unit setting switch/outdoor units • Check for the disconnected line/cold solder/short circuit between Main/Sub MCOM 	1	Operation off	Operation off	Operation off	page 4-112
221	Outdoor unit Temp.SENSOR ERROR(Open/Short) • Error level: over 4.9V(-50°), below 0.4V(93°)	<ul style="list-style-type: none"> • Check the connection part of the outdoor temp. sensor circuit and any problem in the sensor. • Check the wire breaking of the outdoor temp. sensor circuit and the connection status of the connector PCB 	1	Operation off	Operation off	Operation off	page 4-113
231	COND. OUT Main Temp.SENSOR ERROR (Open/Short) • Error level: over 4.9V (-50°), below 0.4V (93°)	<ul style="list-style-type: none"> • Check the connection part of the COND OUT temp. sensor circuit and any problem in the sensor • Check the wire breaking of the COND OUT temp. sensor circuit and the connection status of the connector PCB 	1	Operation off	Operation off	Operation off	page 4-114
246	Outdoor COND OUT temp. sensor dislocation error	<ul style="list-style-type: none"> • Check if the outdoor COND OUT sensor is mounted in the right position 	1	Operation off	Operation off	Operation off	page 4-115
251	Discharge temp. error (Open/Short) • Error detection condition: outdoor temp. over -10 ° • Error level: over 4.95V (-50°), below 0.4V (93°)	<ul style="list-style-type: none"> • Check the connection part of the discharge temp. sensor circuit and any problem in the sensor. • Check the wire breaking of the discharge temp. sensor circuit and the connection status of the connector PCB 	1	Operation off	Operation off	Operation off	page 4-116
261	Discharge temp. Sensor dislocation error	<ul style="list-style-type: none"> • Check if the discharge temp. sensor is mounted in the right position 	1	Operation off	Operation off	Operation off	page 4-117
291	Detect only high pressure SENSOR ERROR (Open/Short) compressor (short error: detect only below 0.4V) (Open error: detect only over 4.2V)	<ul style="list-style-type: none"> • Check the wire breaking of high pressure sensor • Check the high pressure sensor circuit and any problem in the sensor 	1	Operation off	Operation off	Operation off	page 4-118
311	Liquid pipe temp. sensor connector dislocation Liquid pipe temp. sensor wire breaking Defective liquid pipe temp. sensor	<ul style="list-style-type: none"> • Check if a liquid pipe temp. sensor wire is broken • Check the liquid pipe temp. sensor connection circuit and any problem with sensor 	1	Operation off	Operation off	Operation off	page 4-119
320	O.L.P Sensor (Open/Short)	<ul style="list-style-type: none"> • Check for O.L.P sensor wire cut off 	1	operation off	operation off	operation off	page 4-120

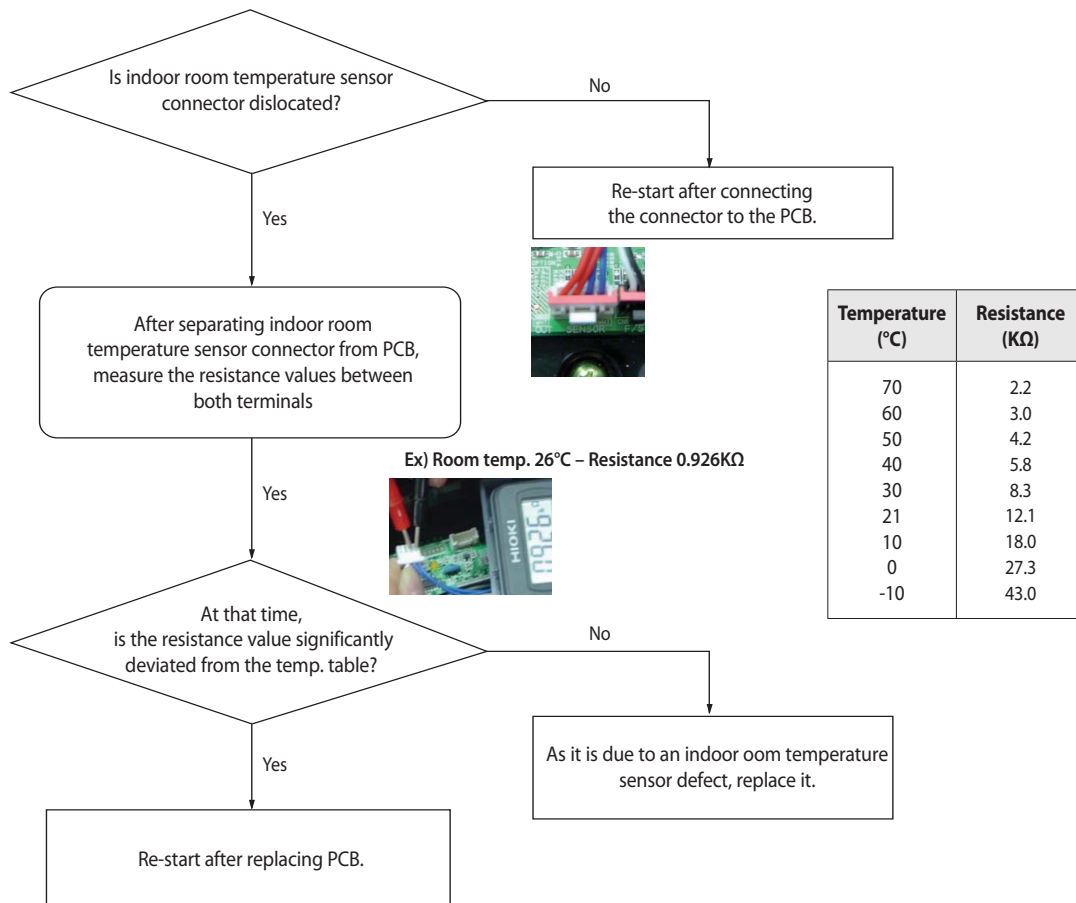
■ Error display (cont.)

Error mode	Cause	Measures to take	Product's operation condition during error(Main parts status)			Diagnosis method
			Frequency	Outdoor unit status	Error occurred indoor unit.	
403	All the operating indoor machines do not reach -4°C for more than five minutes	<ul style="list-style-type: none"> • Check if the indoor FAN/MOTOR operates normally. • Check if the indoor EEV operates normally. • Check the indoor heat exchanger's IN/OU sensor. • Check for clogging in the suction area of the indoor machine. 	1	Operation off	Operation off	page 4-121
407	Compressor down by high pressure sensor protection control	<ul style="list-style-type: none"> • Check if a service valve is open • Compare the values between manifold gauge and 5-net: check if there are any problems with high pressure sensor • Check if indoor/outdoor EEV operates • Check if there is any clog in the piping such as filters • Check if the fan operates well • Check the amount of refrigerants (overcharging) 	1	Operation off	Operation off	page 4-122
410	Compressor down by low pressure sensor protection control	<ul style="list-style-type: none"> • Check if a service valve is open • Compare the values between manifold gauge and 5-net: Check if there are any problems with high pressure sensor • Check if indoor/outdoor EEV operates • Check if there is any clog in the piping such as filters • Check the amount of refrigerants (shortage) 	1	Operation off	Operation off	page 4-123
416	Compressor down by discharge temp.	<ul style="list-style-type: none"> • Check the resistance of discharge sensors • Check if a service valve is open • Compare the values between manifold gauge and 5-net: Check if there are any problems with high pressure sensor • Check if indoor/outdoor EEV operates • Check if there is any clog in the piping such as filters 	1	Operation off	Operation off	page 4-124
440	Prohibit heating for outdoor temperature over 30°	<ul style="list-style-type: none"> • Check if there is any dislocation/pbm. with outdoor temp sensor • If outdoor temp measured normal, normal operation by protective control 	1	Operation off	Operation off	page 4-125
442	Prohibit filling mode for outdoor temperature over 15°	<ul style="list-style-type: none"> • Check if there is any dislocation/pbm. with outdoor temp sensor • If outdoor temp measured normal, normal operation by protective control 	1	Operation off	Operation off	page 4-126
462	Current protection control causes comp. down	<ul style="list-style-type: none"> • Check the compressor input voltage (error for low voltage) • Check the overcurrent option setting 	1	Operation off	Operation off	page 4-126
463	OLP protection control cause comp. down	<ul style="list-style-type: none"> • See if the sub valve is open • Check the amount of coolant • Check the OLP sensor 	1	Operation off	Operation off	page 4-126
458 475	Electrical malfunctions of the outdoor machine	<ul style="list-style-type: none"> • Fan stuck • Poor fan connection • Damaged fan 	1	Operation off	Operation off	page 4-127
702	1 st close indoor electrically operated valve	<ul style="list-style-type: none"> • Check the PCB connection of electrically operated valve wire • Check the sealing condition of electrically operated valve • Check if there is any external rust, internal breakage/short circuit on the coil • After resetting OU (K3), re-check if error occurs again 	1	Normal operation	Operation off	page 4-128
703	1 st open indoor electrically operated valve	<ul style="list-style-type: none"> • Check the PCB connection of electrically operated valve wire • Check the sealing condition of electrically operated valve • Check if there is any external rust, internal breakage/short circuit on the coil • After resetting OU (K3), re-check if error occurs again 	1	Re-start	Re-start	page 4-128

4-4-1 Indoor Unit ROOM sensor Error (Open/Short)

Outdoor unit display	$E 121 \leftrightarrow R^{xxx}$ (xxx : The address of the error occurred indoor unit)
Indoor unit display	×(Operation) ●(Timer) ×(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• The room temperature sensor of No. XXX indoor unit has defective OPEN/SHORT

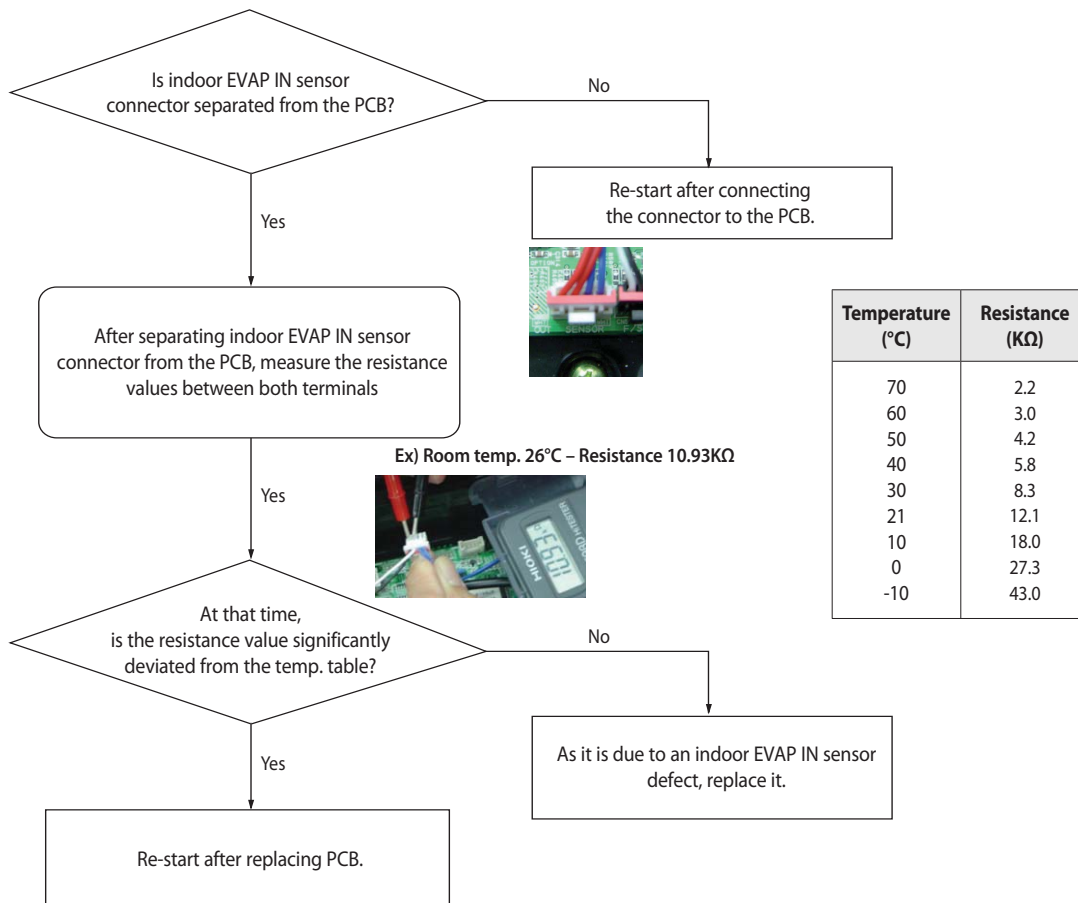
1. How to check



4-4-2 Indoor unit EVAP IN sensor Error (Open/Short)

Outdoor unit display	E 122 ↔ A xxx (xxx: The address of the error occurred indoor unit)
Indoor unit display	●(Operation) ●(Timer) ×(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• The EVAP IN sensor of No. XXX indoor unit has defective OPEN/SHORT

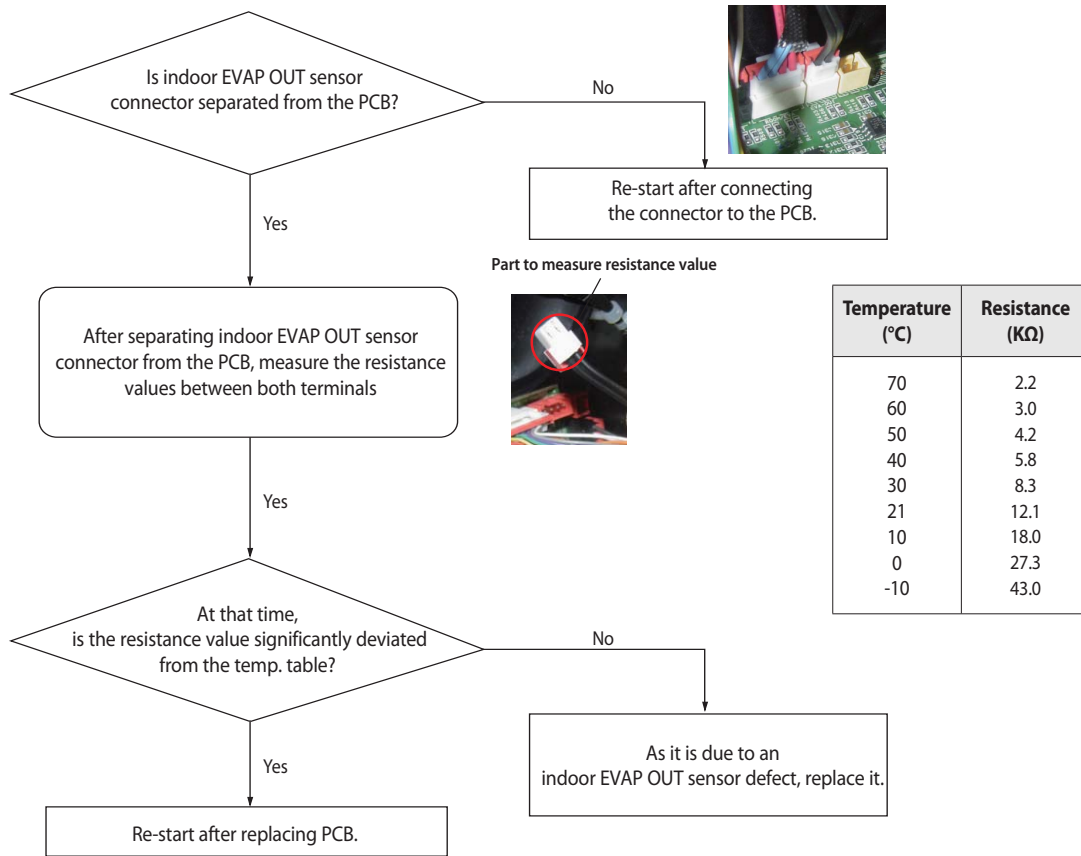
1. How to check



4-4-3 Indoor EVAP OUT sensor Error (Open/Short)

Outdoor unit display	E 123 → A ^{xxx} (xxx: The address of the error occurred indoor unit)
Indoor unit display	●(Operation) ●(Timer) ×(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• The EVAP out sensor of No. XXX indoor unit has defective OPEN/SHORT

1. How to check



4-4-4 Indoor Heat Exchanger's EVAP IN sensor dislocation error

Outdoor unit display	E 128 ↔ A ××× (×××: The address of the error occurred indoor unit)
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Indoor heat exchanger's EVAP IN piping sensor has been dislocated

1. How to diagnose

1) During Cooling Operation

Tcond, out - Tair, out > 3°C	OK
Tair, in - Teva, out > 4°C	NO
Tair, in - Teva, out > 4°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Indoor heat exchanger's EVAP IN sensor dislocation error

2) During heating operation

Average low pressure > 8.5kg/cm ²	OK
Tcond, out - Tair, out ≥ 3°C	OK
Tair, in - Teva, out ≥ 2°C	NO
Tcond, out - Tair, out < -2°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Indoor heat exchanger's EVAP IN sensor dislocation error

2. How to check

Check if an Indoor heat exchanger's EVAP IN sensor has been dislocated then is correct after assembling.

4-4-5 Indoor Heat Exchanger's EVA OUT sensor dislocation error (Open/Short)

Outdoor unit display	E 129 ↔ A ××× (×××: The address of the error occurred indoor unit)
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Indoor heat exchanger's EVA IN piping sensor has been dislocated

1. How to diagnose

1) During Cooling Operation

Tcond, out - Tair, out > 3°C	OK
Tair, in - Teva, out > 4°C	NO
Tair, in - Teva, out > 4°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Indoor heat exchanger's EVA IN sensor dislocation error

2) During Heating operation

Average high pressure > 25kg/cm ²	OK
Tcond, out - Tair, out ≥ 3°C	OK
Tair, in - Teva, out ≥ 2°C	NO
Tcond, out - Tair, out < -2°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Indoor heat exchanger's EVA IN sensor dislocation error

2. How to check

Check if an Indoor heat exchanger's EVA OUT sensor has been dislocated then is correct after assembling.

4-4-6 E 130 : Simultaneous Indoor Heat Exchanger's EVA IN, OUT sensor dislocation error (Open/Short)

1. How to diagnose

1) During Cooling Operation

Tcond, out - Tair, out > 3°C	OK
Tair, in - Teva, out > 4°C	NO
Tair, in - Teva, out > 4°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Simultaneous indoor heat exchanger's EVA IN, OUT sensor dislocation error

2) During Heating operation

Average high pressure > 25kg/cm ²	OK
Teva, out - Tair, out ≥ 3°C	OK
Tair, in - Teva, out ≥ 2°C	NO
Tcond, out - Tair, out < -2°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Simultaneous Indoor heat exchanger's EVA IN, OUT sensor dislocation error

2. How to check

Check if an Indoor heat exchanger's EVA IN, OUT sensor has been dislocated then is correct after assembling.

4-4-7 E 15 1: Breakdown of EEV (2nd)

1. How to diagnose

Detect only on cooling operation. (No detection during heating operation.)

During cooling operation, the temperature of the inlet or outlet ducts of heat exchanger is kept below 0°C for more than 20 minutes without cessation

2. How to check

1) Check if the wire of electronic expansion valve is correctly connected to the PCB of indoor unit.

2) Check if the coil of an electronic expansion valve is correctly plugged into the main body.

3) Check if there is any rust on the surface of the electronic expansion valve with naked eyes then check the resistance between each terminal to find any wire breaking or short circuit.

4) Press the RESET KEY (K3) of the outdoor unit then see if the same error occurs.

- In case of closure problem, operate the indoor unit in which the error has occurred.

- In case of opening problem, please do not operate the indoor unit in which the error has occurred.

5) If there is no problem with the above checkup items, replace the electronic expansion valve of the troubled indoor unit.

- As an electronic expansion valve replacement is tricky work that requires collecting refrigerants in all systems, please check the above items before replacement.

4-4-8 E 152 : Problem with EEV closure (2nd)

1. How to diagnose

1) During Cooling operation(Each of the below conditions have to be met for at least 20 minutes.)

Tcond, out - Tair, out > 3°C	OK
Tair, in - Teva, out > 4°C	NO
Tair, in - Teva, out > 4°C	OK
Compressor in operation & Indoor unit operation & Thermo On	OK
Error details	Electrically operated valve closure breakdown

2) During heating operation (must satisfy all conditions below)

- When more than 2 indoor units are on Thermo On heating operation.
- When average high pressure is over 18kg/cm²
- 5 minutes after finishing Safety Start
- Keep Indoor units' T(Eva_In)<T(Room) +3°C and T(Eva_Out)<T(Room) +3°C condition for more than 5 minutes

2. How to check

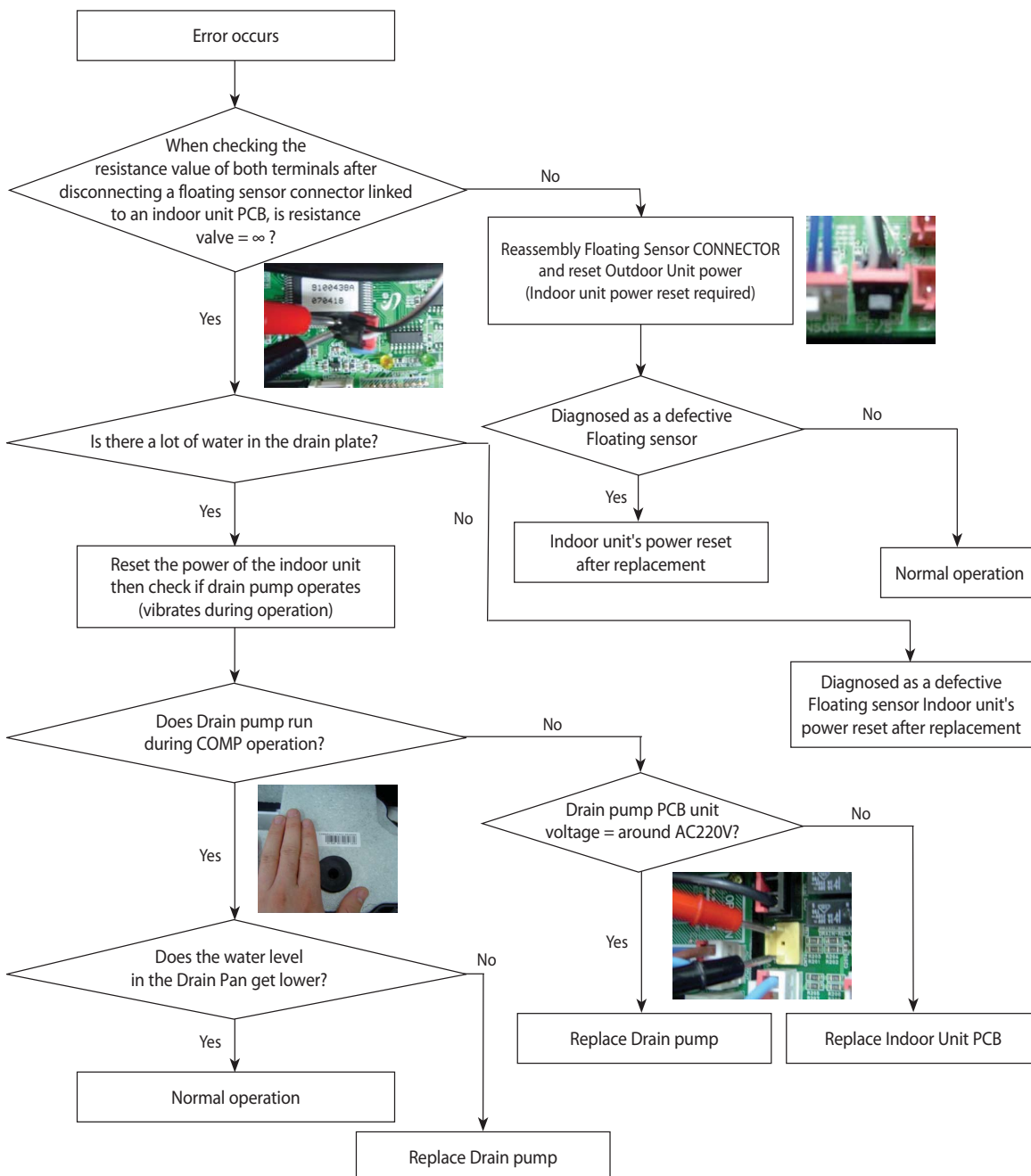
- 1) Check if the wire of electronic expansion valve is correctly connected to the PCB of indoor unit.
- 2) Check if the coil of electronic expansion valve is correctly plugged into the main body.
- 3) Check if there is any rust on the surface of the electronic expansion valve with naked eye then check the resistance between each terminal to find any wire breaking or short circuit.
- 4) Press the RESET KEY (K3) of the outdoor unit then see if the same error occurs.
 - In case of closure problem, operate the indoor unit in which the error has occurred.
 - In case of opening problem, please do not operate the indoor unit in which the error has occurred.
- 5) If there is no problem with the above checkup items, replace the electronic expansion valve of the troubled indoor unit.
 - As electronic expansion valve replacement is tricky work that requires collecting refrigerants in all systems, please check the above items before replacement.

4-4-9 E 153 : Detection of Floating Switch of Indoor Unit's Drain Pump

Outdoor unit display	E 153 ↔ A ×××(x x x : The address of the error occurred indoor unit)
Indoor unit display	×(Operation) ×(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Due to the breakdown of a drain pump of the indoor unit, an increase in the water level in the drainage plate or defective detection sensor

* To release E153 error, you must reset the power of the indoor unit.

1. How to check



4-4-10 E 154: The operational error of Indoor Unit's Fan Motor

Outdoor unit display	E 154 ↔ A ^{xxx} (xxx: The address of the error occurred indoor unit)
Indoor unit display	×(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• The operational error of the fan motor of No. XXX indoor unit

1. How to diagnose
 - 1) Occurs when RPM valve fails to feedback to MICOM at a PID control-type fan motor

2. How to check
 - 1) Check HALL IC connector that carries out feedback of RPM value.
 - 2) If a fan motor operation capacitor is a PCB separating type, check the connection terminal.
 - 3) Check the operational status of the fan motor.
 - 4) If there is no problem with the above checkup items, replace the PCB.

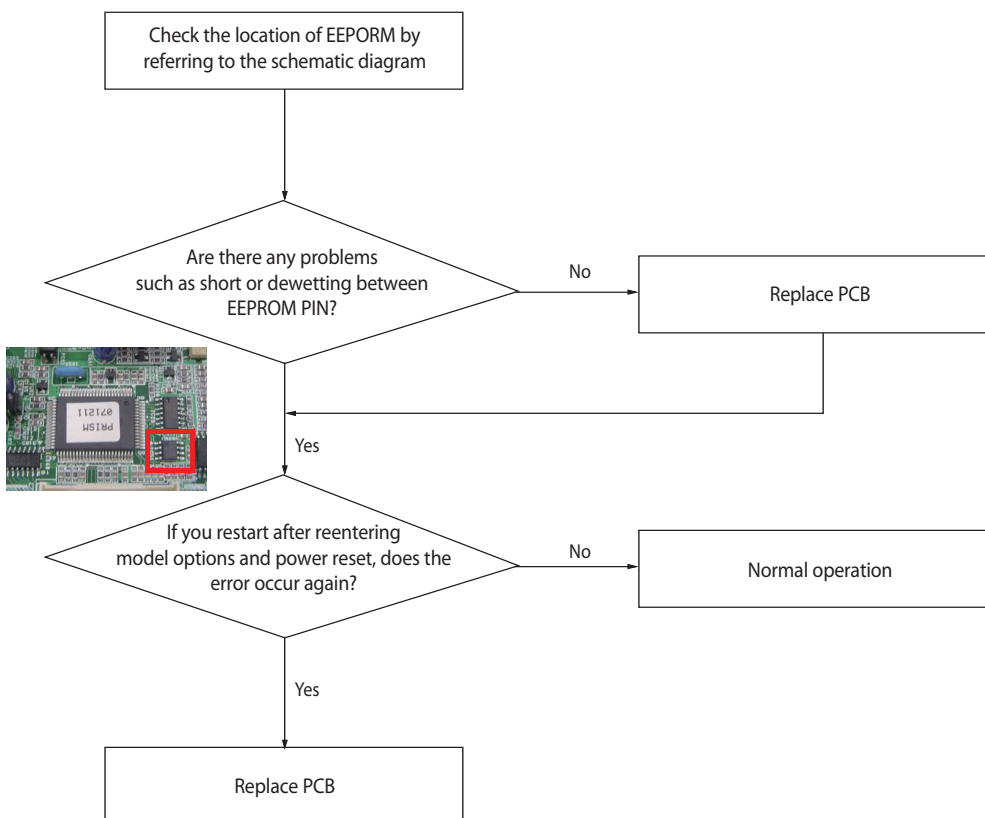
4-4-11 E 15 1: Mixed operation Error

- Mixed operation error is not due to a product problem but is displayed when the operational mode input in an indoor unit is different from current operational status (other indoor unit's operational mode).
- Check the operational mode of outdoor unit or other indoor unit then re-enter or stop the operational mode of the relevant unit.
- If it is necessary to apply a different operational mode to an indoor unit from others, please stop other indoor units then operate the indoor unit.

4-4-12 EEPROM error

Outdoor unit display	<i>E 162</i>
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Communication failure between EEPROM and MICOM
Cause of problem	• PCB replacement due to defective EEPROM

1. How to check



4-4-13 Option error of the Remote Controller for an Indoor Unit

Outdoor unit display	<i>E 163</i>
Indoor unit display	●(Operation) ●(Timer) ●(Fan) ●(Filter) ●(Defrost)
Criteria	• Display number type of indoor unit – E163 occurs, Lamp type – all lamps flash
Cause of problem	• Missed or erroneous input of remote controller options

- Check relevant remote controller options for each model then enter correct options

4-4-14 Error due to confused use of Fahrenheit and Celsius

Outdoor unit display	<i>E 170</i>
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Display number type of indoor unit – E170 occurs, Lamp type – all lamps flash • Occurs in an indoor unit with Celsius setting
Cause of problem	• Missed input of remote controller options

- Check relevant remote controller options for each model then enter correct options
- As this happens only in a Celsius setting model, it is necessary to reenter option codes for error-free models in a region where Celsius is used.

4-4-15 Error due to incorrect Indoor Unit Power/Communication Cable Connection

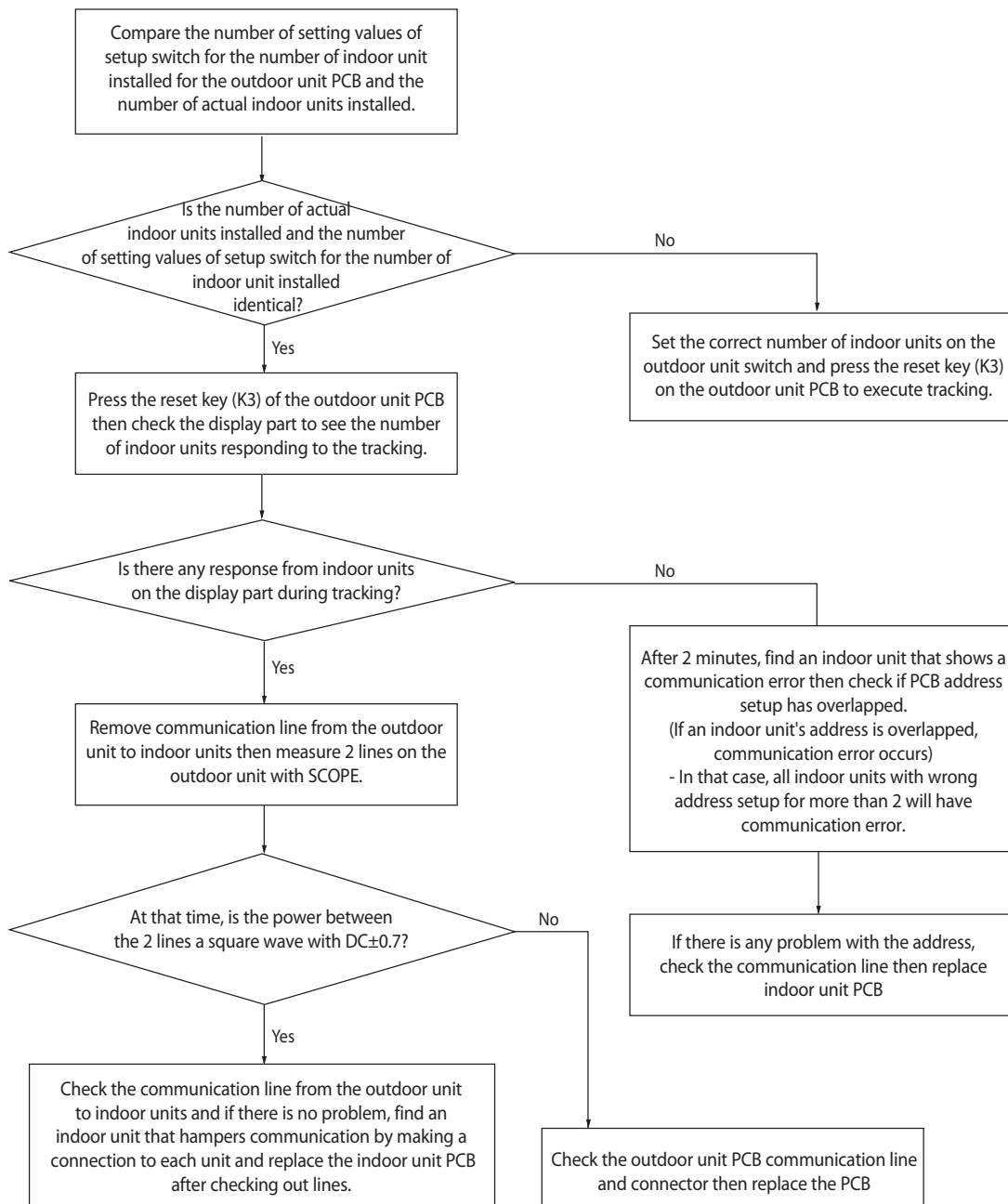
Outdoor unit display	<i>E 185</i>
Indoor unit display	<i>E 185</i> (wall mount type)
Criteria	• Check for Power input(220V) for the Terminal block(F1/F2).
Cause of problem	• Apply power (220V) to the terminal of the indoor unit communication block (F1/F2)

- Check for disconnected line after turning off the Main power.

4-4-16 Communication error between Indoor and Outdoor units during Tracking

Outdoor unit display	E201
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Communication error between indoor and outdoor units
Cause of problem	• Refer the below

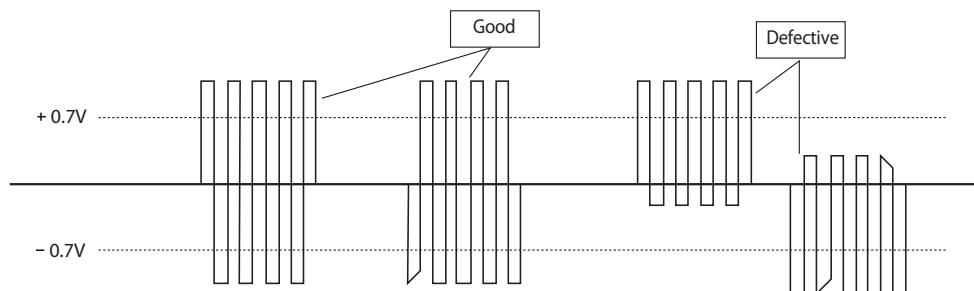
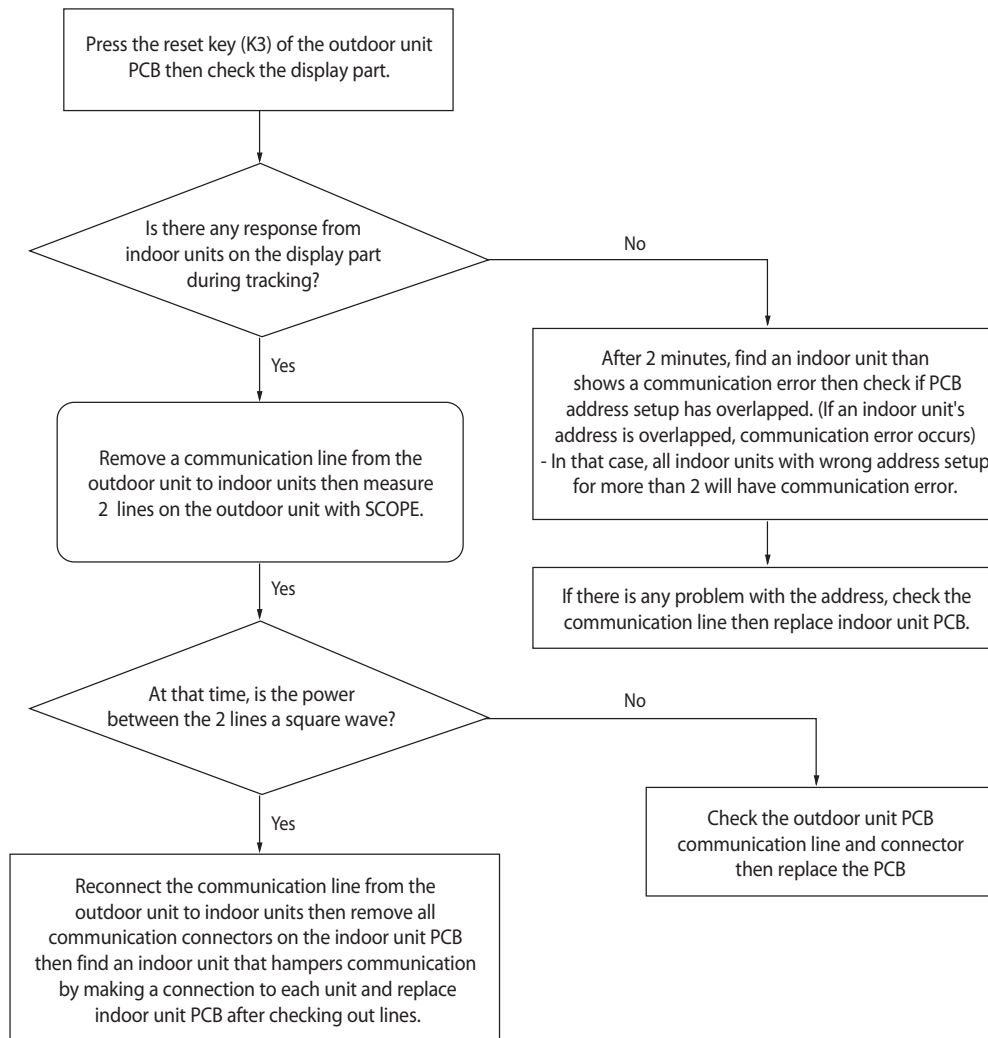
1. How to check



4-4-17 Communication error between Indoor & Outdoor units after Completing Tracking

Outdoor unit display	E202
Indoor unit display	x(Operation) ●(Timer) ●(Fan) x(Filter) x(Defrost)
Criteria	• When the communication between indoor/outdoor units cut-off for 2 minutes (all chambers fail to receive)
Cause of problem	• Communication error between indoor/outdoor units and/or the erroneous setup switch setting for the number of indoor units installed.

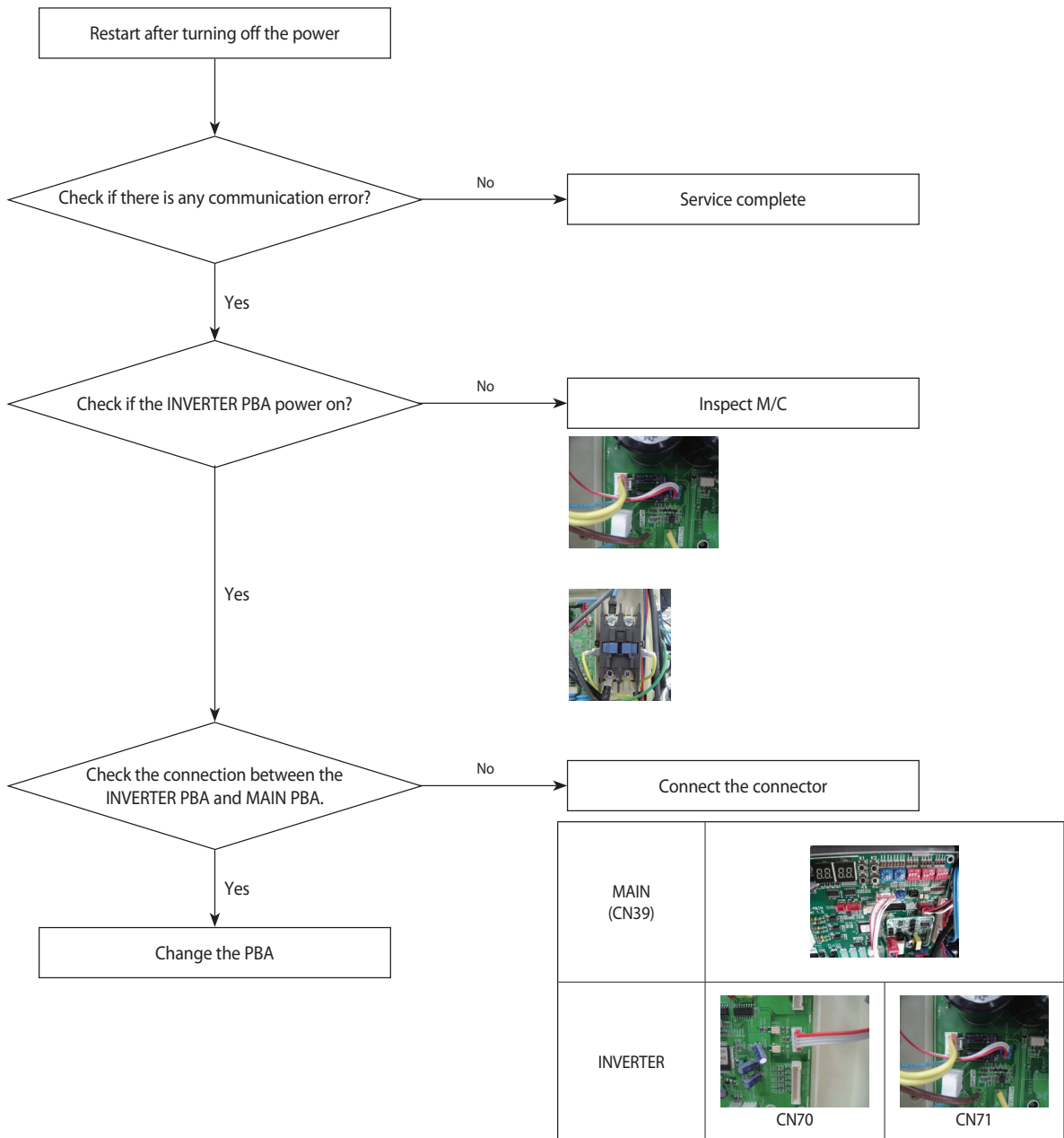
1. How to check



4-4-18 Communication error between main PCB and inverter PCB during Tracking

Outdoor unit display	E203
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Communication error between main PCB and inverter PCB during
Cause of problem	• Refer the below

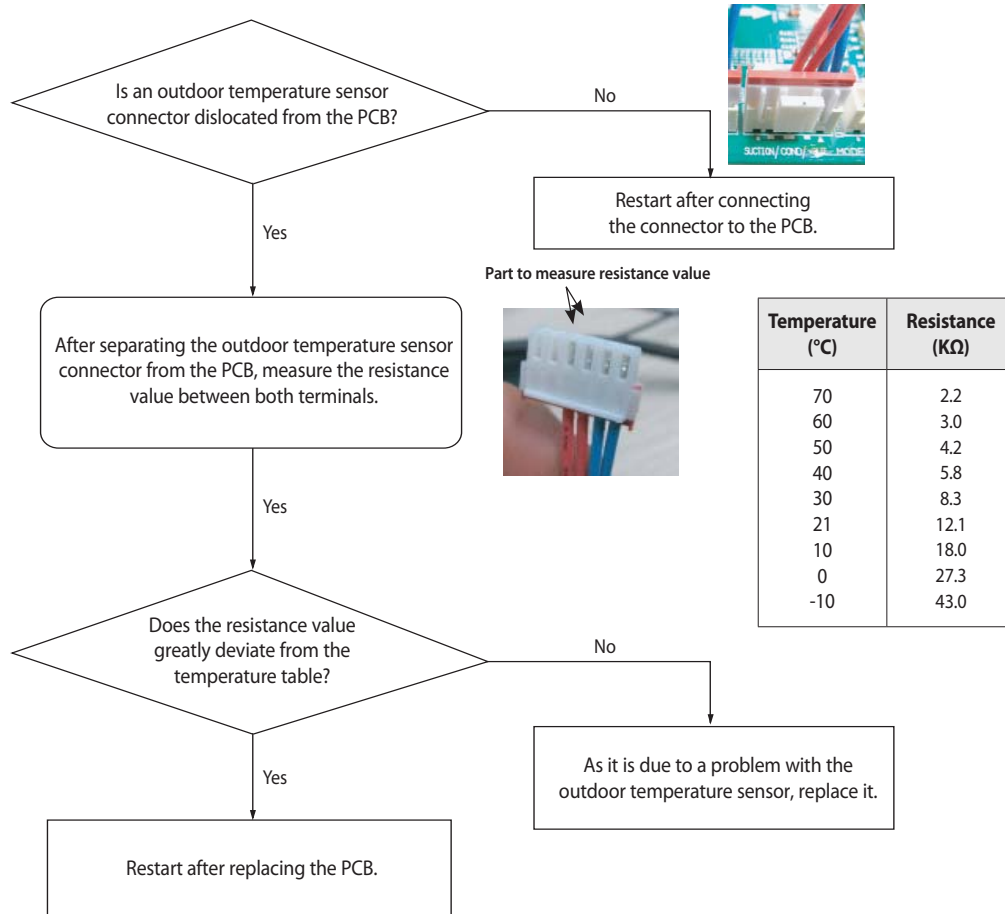
1. How to check



4-4-19 Outdoor Temperature Sensor error

Outdoor unit display	E221
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Outdoor temperature sensor OPEN/SHORT defective

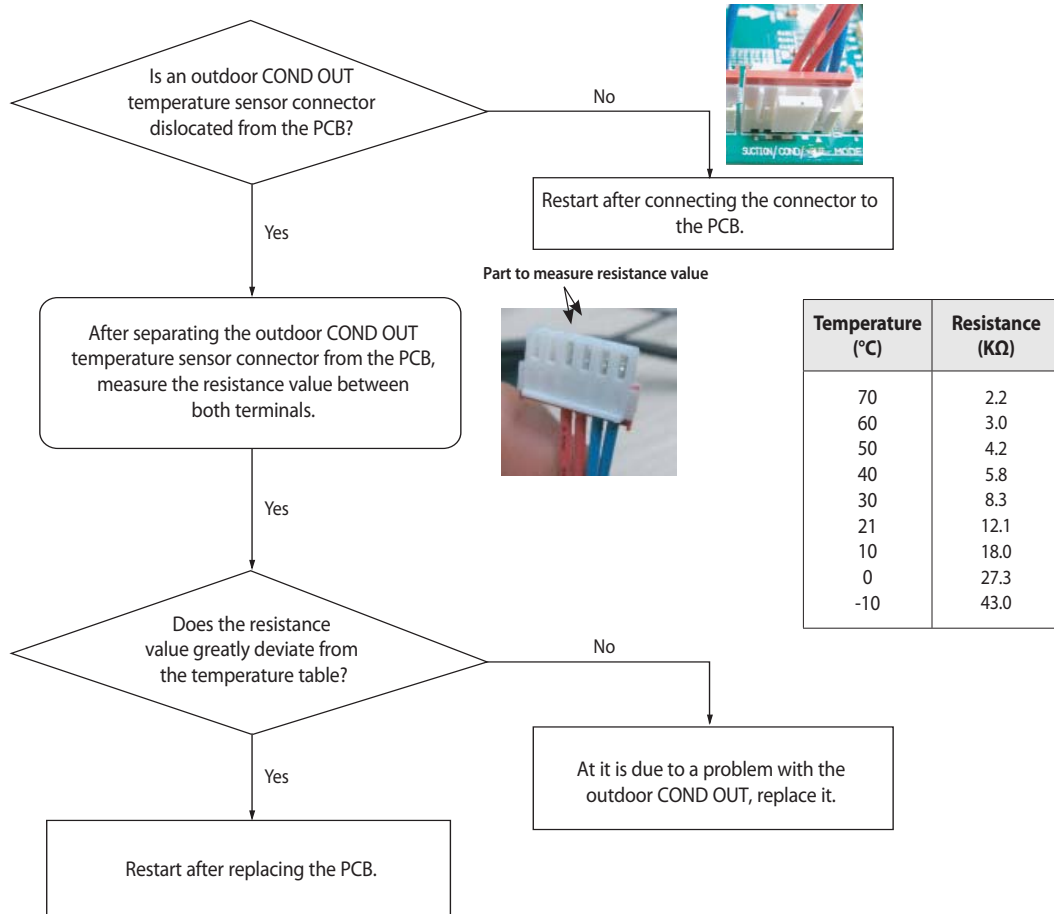
1. How to check



4-4-20 COND OUT Temperature Sensor error (Open/Short)

Outdoor unit display	E231
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

1. How to check



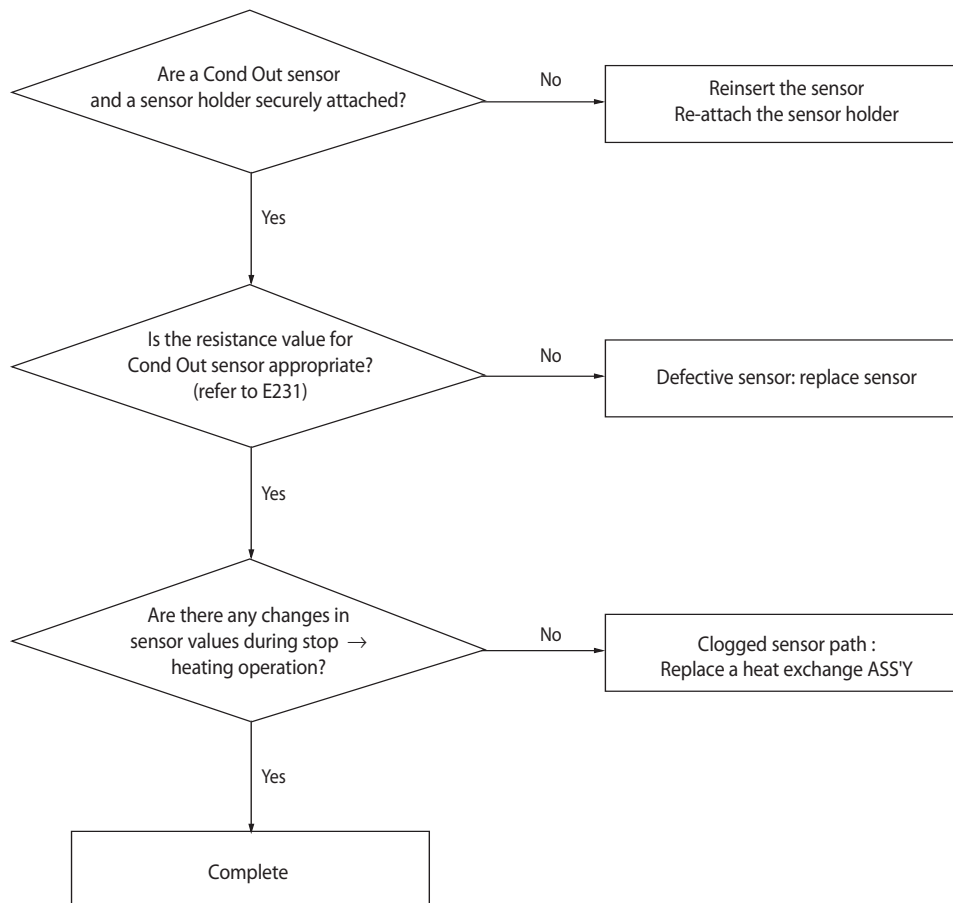
4-4-21 E246 : Outdoor COND OUT Sensor dislocation error

1. How to diagnose

- 1) During Cooling operation, there will be no detection
- 2) During Heating operation(Each of the below conditions have to be met for at least 20 minutes.)

Average high pressure > 25kg/cm ²	OK
Tcond, out - Tair, out ≥ 3°C	OK
Tair, in - Teva, out ≥ 2°C	OK
Tcond, out - Tair, out < -2°C	OK
Compressor in operation & Indoor unit operation & Thermo On	NO
Error details	Outdoor Cond Out sensor dislocation error

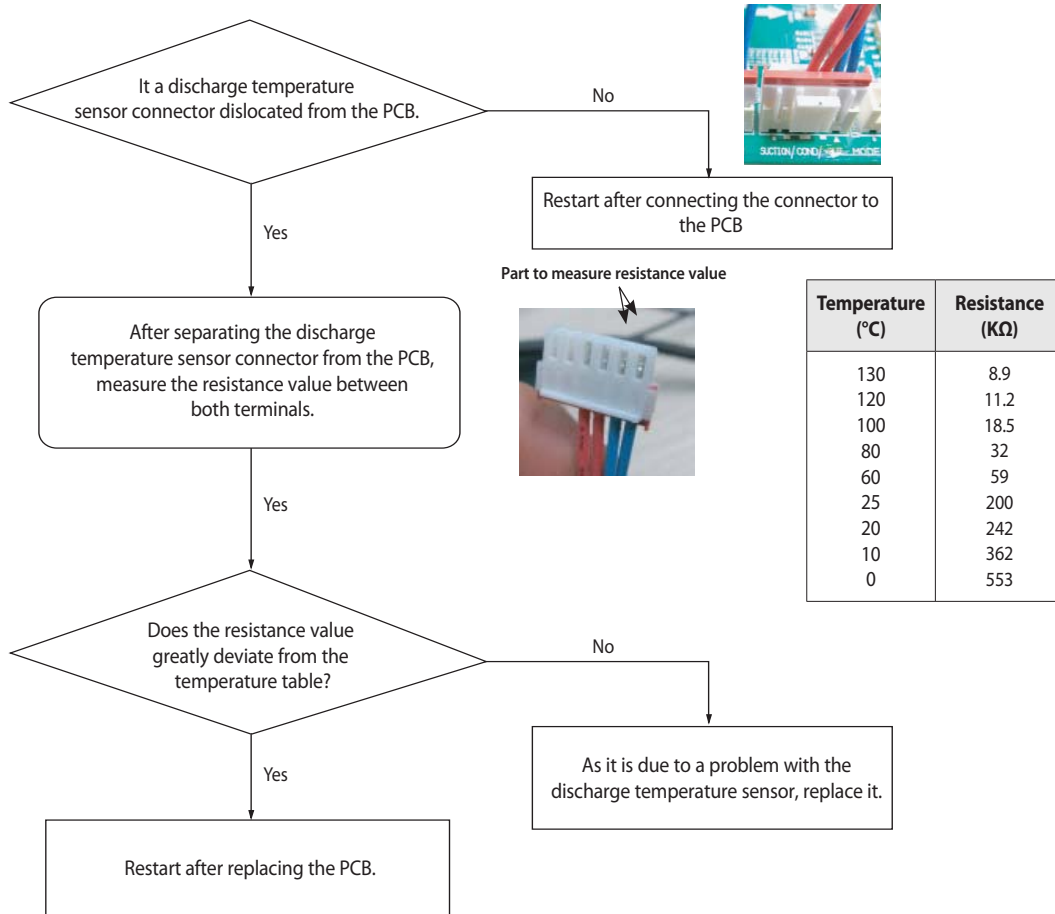
2. How to check



4-4-22 Discharge Temperature Sensor error (Open/Short)

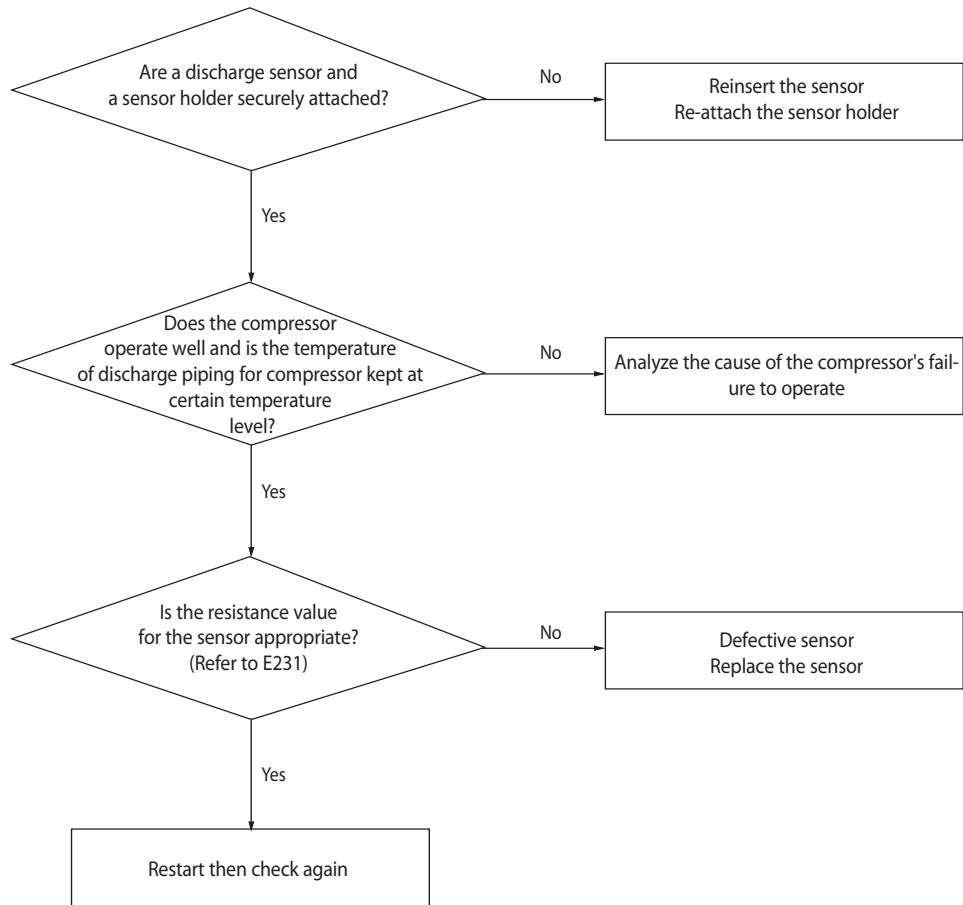
Outdoor unit display	E251
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Discharge temperature sensor OPEN/SHORT defective

1. How to check



4-4-23 E26 1: Compressor's Discharge Temperature Sensor dislocation error

1. How to check



4-4-24 High Pressure Temperature Sensor error (Open/Short)

Outdoor unit display	E291
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

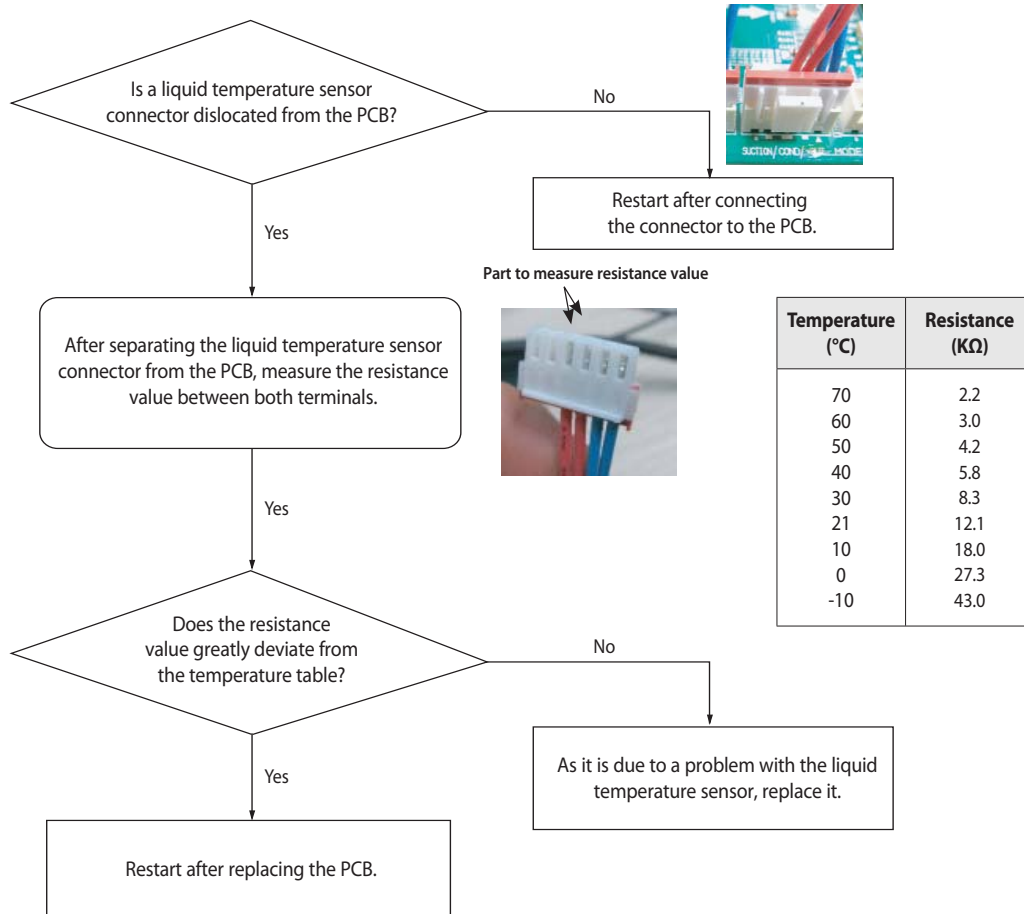
■ **How to detect OPEN/SHORT error in Low/High pressure sensor**

1. During oil retrieval, omit the error detection and start detecting 5 minutes after complete operation.
2. During safety start operation, omit the error detection and start detecting 5 minutes after complete operation.
3. During defrost operation, omit the error detection and start detecting 5 minutes after complete operation
4. SHORT error detection: carry out error detection only if it is under 0.4V.
5. During refrigerant refill/retrieval, omit low pressure sensor error detection.

4-4-25 Double pipe temperature sensor error(Open/Short)

Outdoor unit display	E311
Indoor unit display	●(Operation) ×(Timer) ●(Fan) ×(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

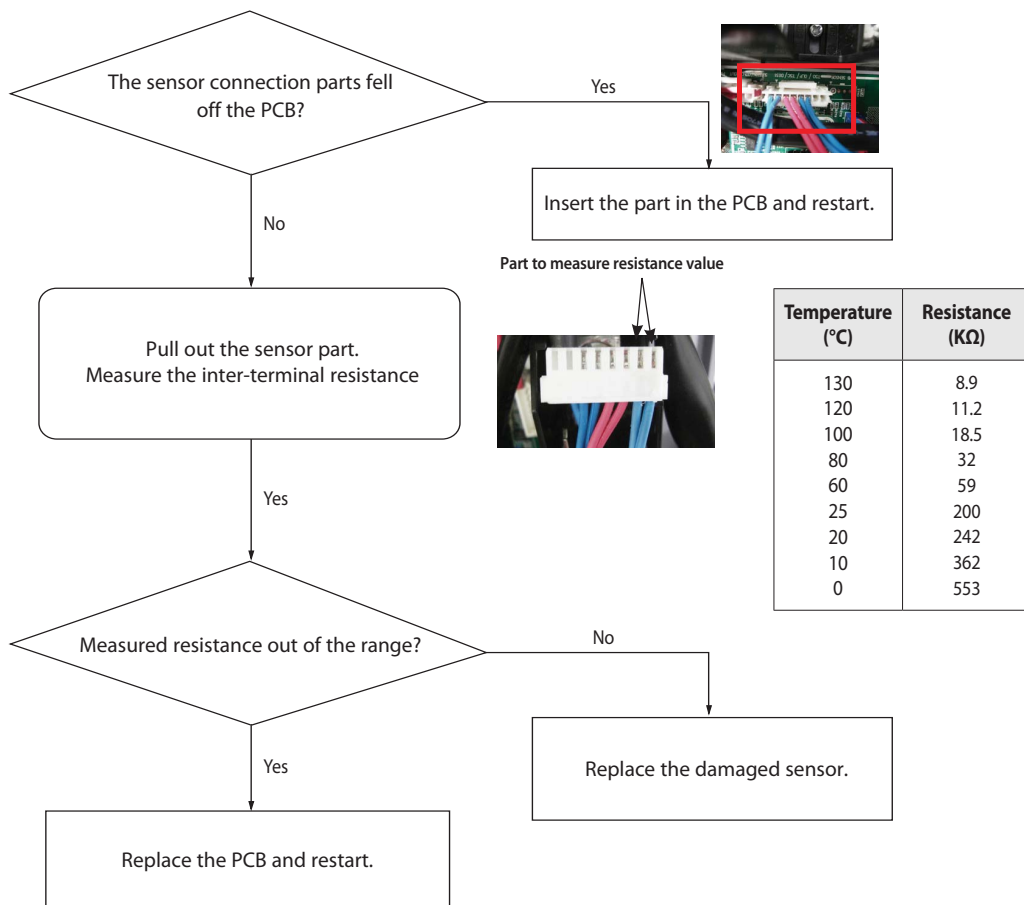
1. How to check



4-4-26 OLP sensor error (Open/Short)

Outdoor unit display	<i>E320</i>
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Refer to how to determine below
Cause of problem	• Wire breaking or failure of the relevant sensor

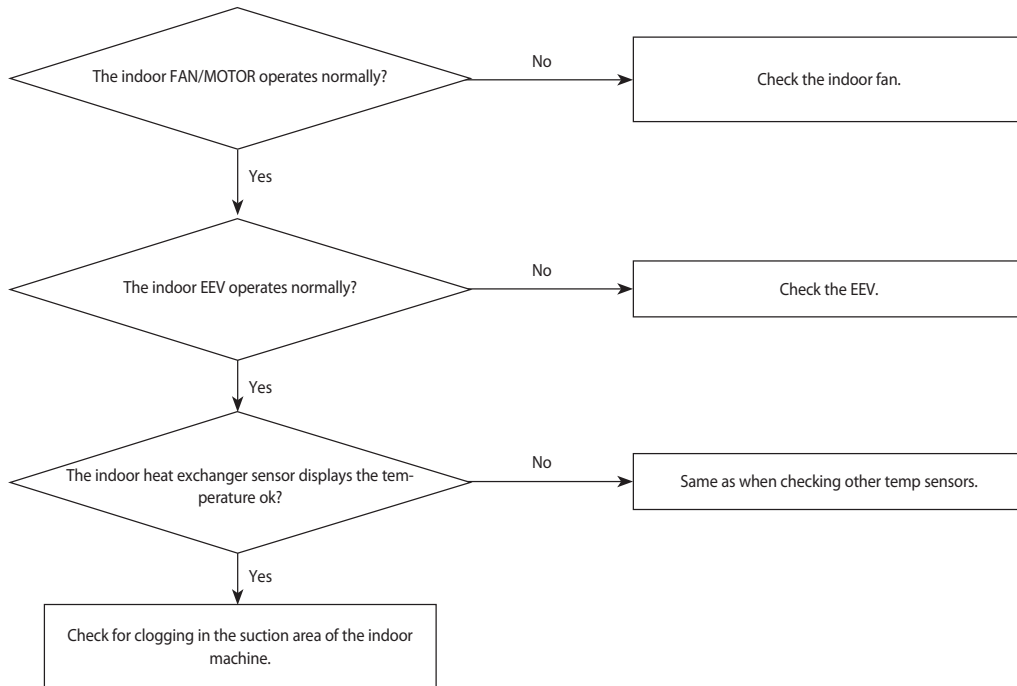
1. How to check



4-4-27 E403 : Freezing control causes comp. down

Outdoor unit display	E403
Indoor unit display	x(Operation) ●(Timer) ●(Fan) ●(Filter) ●(Defrost)
Criteria	• All the operating indoor machines do not reach -4°C for more than five minutes
Cause of problem	<ul style="list-style-type: none"> • Check if the indoor FAN/MOTOR operates normally. • Check if the indoor EEV operates normally. • Check the indoor heat exchanger's IN/OUT sensor. • Check for clogging in the suction area of the indoor machine.

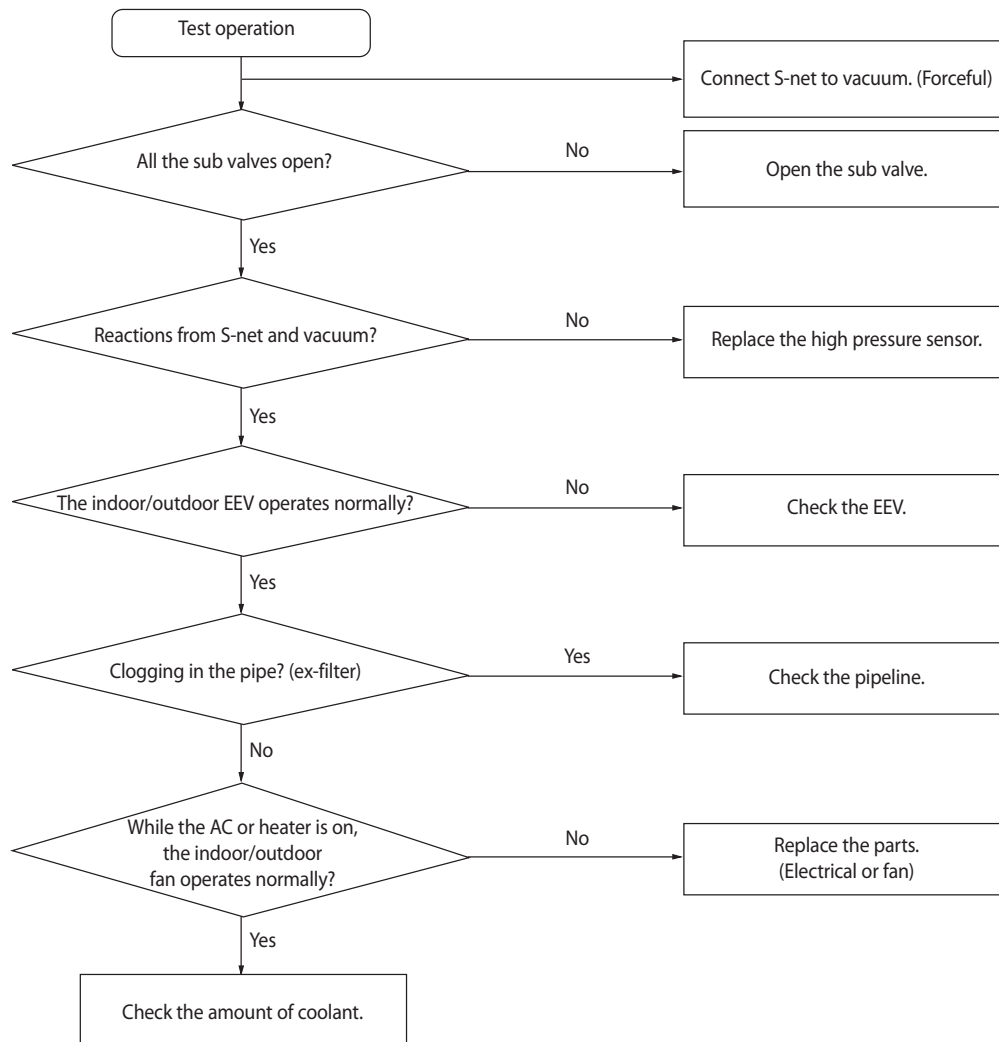
1. How to check



4-4-28 E407: High voltage protection compressor stopped

Outdoor unit display	E407
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• The high pressure sensor reading approaches 38KG/CM ² .
Cause of problem	<div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <p><AC in operation></p> <ul style="list-style-type: none"> • Check electrical installation of the outdoor machine. • Polluted outdoor machine heat exchanger. • Closed sub valve./Add some coolant. • Check for clogging in the suction area of the indoor machine. • Electrical motor is weak or cut off cable. • Fan control SSR inefficient. </div> <div style="width: 48%;"> <p><Heater in operation></p> <ul style="list-style-type: none"> • Electrical installation of the outdoor machine. • Closed sub valve./Add some coolant. • Electrical motor is weak or cut off cable. </div> </div>

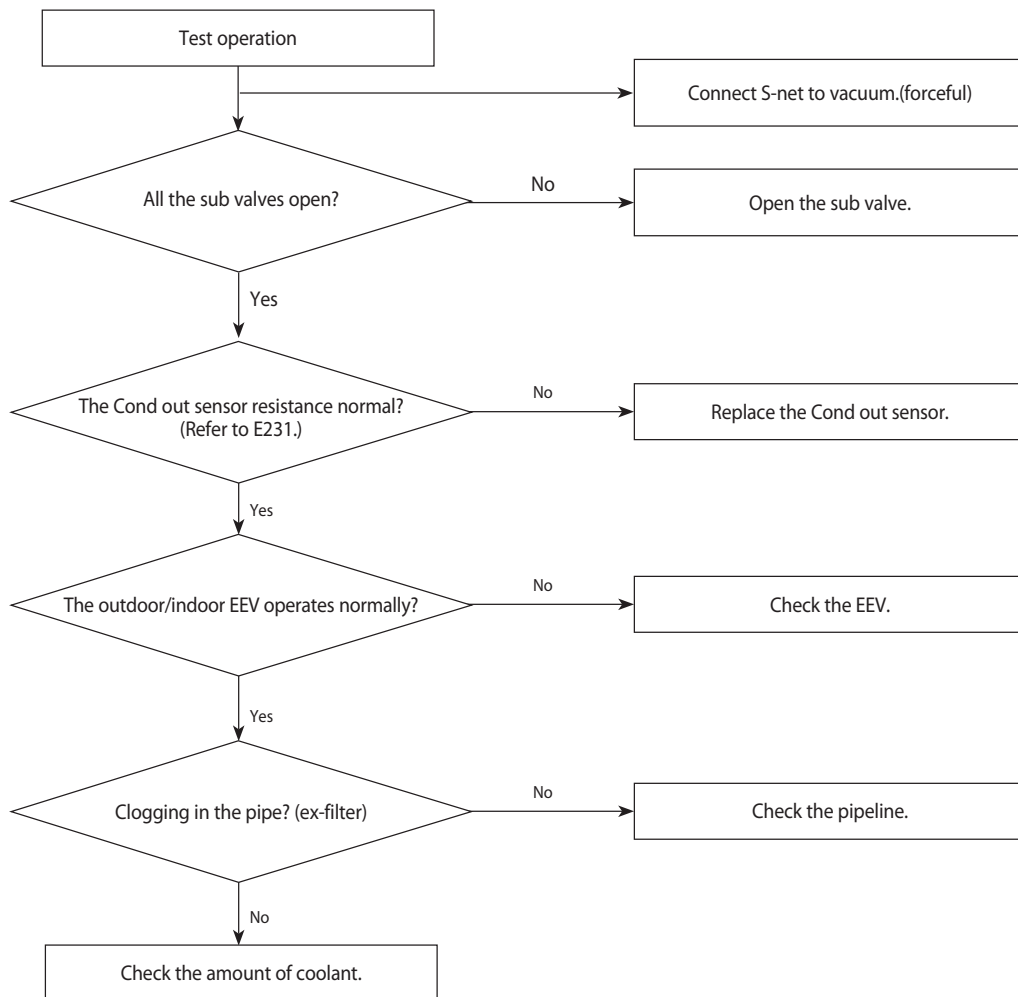
1. How to check



4-4-29 E4 10 : Compressor down by low pressure sensor protection control

Outdoor unit display	E4 10
Indoor unit display	x(Operation) ●(Timer) ●(Fan) ●(Filter) ●(Defrost)
Criteria	• The Cond out sensor temperature is detected below -35°C.
Cause of problem	<ul style="list-style-type: none"> • Insufficient coolant, clogging in the motor. • Bad compressor. • Bad Cond out sensor. • The outdoor compressor's Discharge Check Valve leaks. • Exceeding the temperature limit (For heater operation, the outside temperature is below -20°C. For AC operation, the outside temperature is below -5°C) Possibilities for errors.

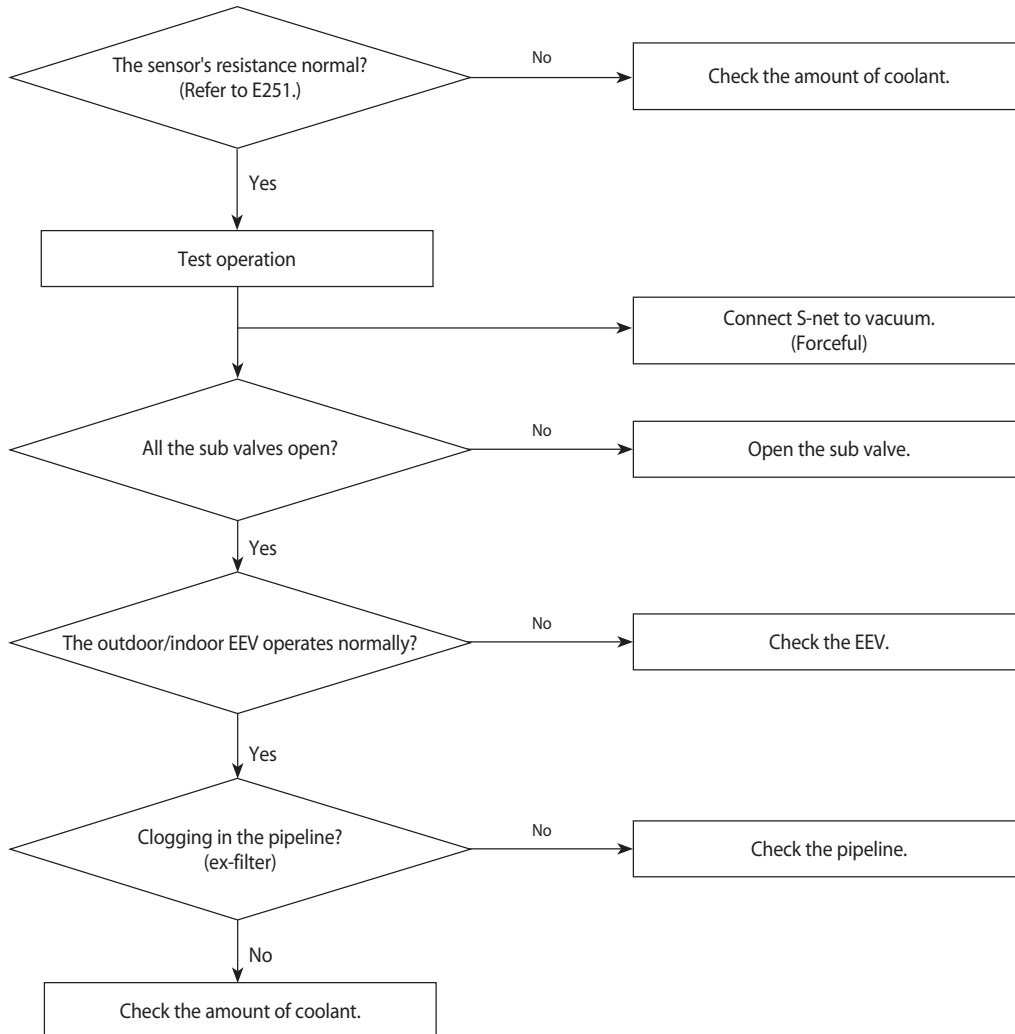
1. How to check



4-4-30 E4 16 : Dischage temperature sensor error

Outdoor unit display	E4 16
Indoor unit display	x(Operation) ●(Timer) ●(Fan) ●(Filter) ●(Defrost)
Criteria	• The compressor temperature above 110°C.
Cause of problem	<ul style="list-style-type: none"> • Insufficient coolant. • Clogging in the outdoor machine's solenoid valve. • Clogging in the sub valve. • Malfunctioning exhaust gas temp sensor. • Clogging in the pipeline and the filter. • Liquid EEV damaged.

1. How to check



4-4-31 E440, E441, E442 : Abnormal outside temperature halts operation of the compressor

Outdoor unit display	E440 (No heater operation with the outside temperature above 30°C.) E441 (No AC operation with the outside temperature below -10°C.) E442 (No refilling of the heater coolant with the outside temperature above 15°C.)
Indoor unit display	No signals
Criteria	E440 : If the outside temperature is above 30°C, operation of the indoor heater with a remote control causes this error. E441 : The indoor machine remote control ON signal. If the outside temperature is below -10°C before the AC runs, this error occurs. E442 : If the outside temperature is above 15°C and the K1 button of the outdoor machine PCB is pressed to refill the coolant, this error is generated.
Cause of problem	• OLP SENSOR temp above Trip_Dis.

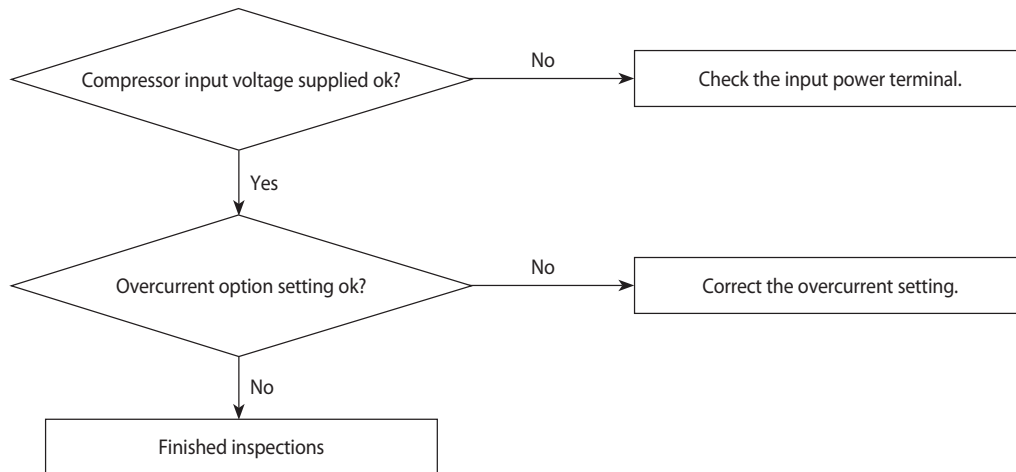
1. How to diagnose

The above malfunction codes do not indicate a malfunction of the product. All you have to do is change the temperature suitably for the limits shown in the manual. When the product malfunctions, if the actual situation does not match the above diagnosis, measure the temperature of incoming air with S-net to see if the measurement is the same as the actual outdoor temperature. If not, replace the temperature sensor.

4-4-32 E462 : Current protection control causes comp. down

Outdoor unit display	E462
Indoor unit display	x(Operation) ●(Timer) ●(Fan) ●(Filter) ●(Defrost)
Criteria	• The outdoor machine input current above I_Trip.
Cause of problem	• Check the compressor input voltage. (error for low voltage.) • Check the overcurrent option setting.

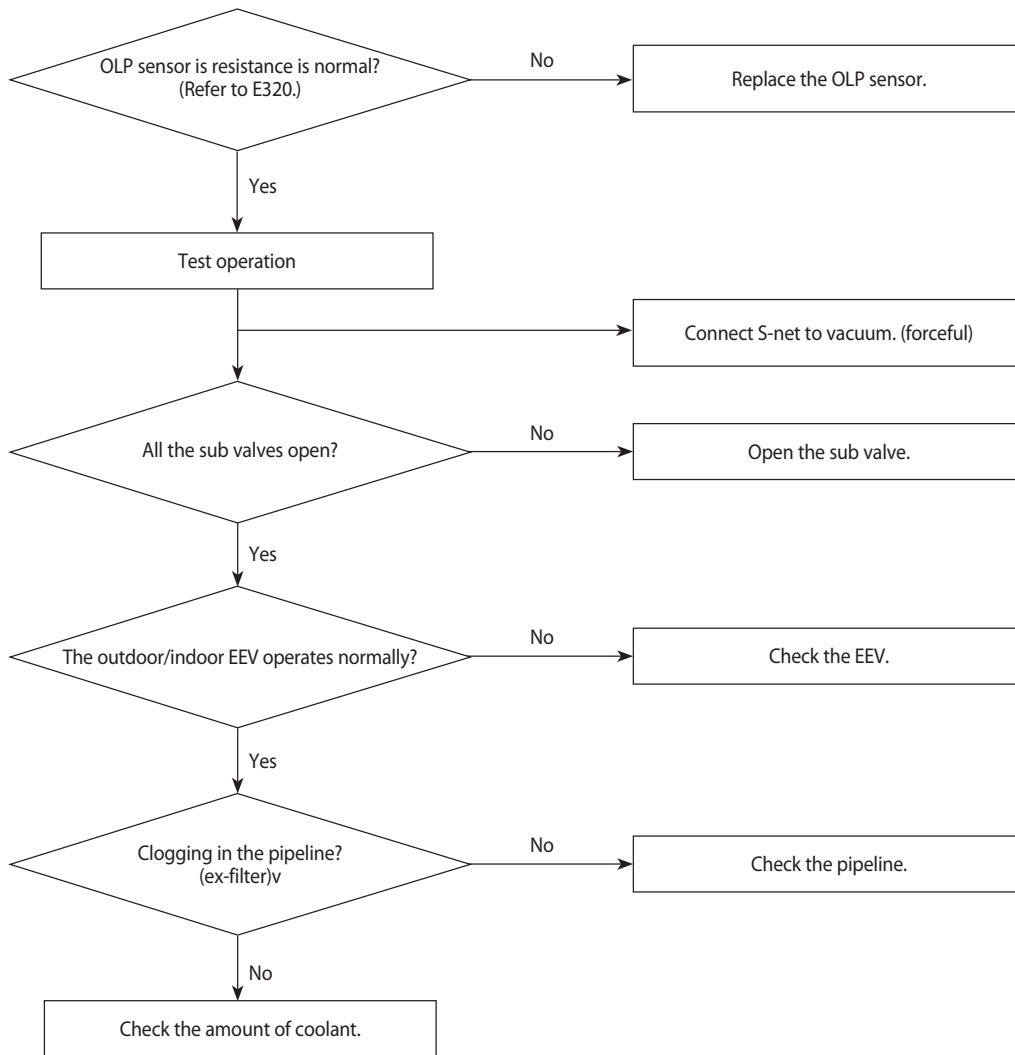
1. How to check



4-4-33 E463 : OLP protection control caused comp. down

Outdoor unit display	E463
Indoor unit display	x(Operation) ●(Timer) ●(Fan) ●(Filter) ●(Defrost)
Criteria	• OLP SENSOR temp above Trip_Dis.
Cause of problem	<ul style="list-style-type: none"> • See if the sub valve is open. • Check the amount of coolant. • Check the OLP sensor.

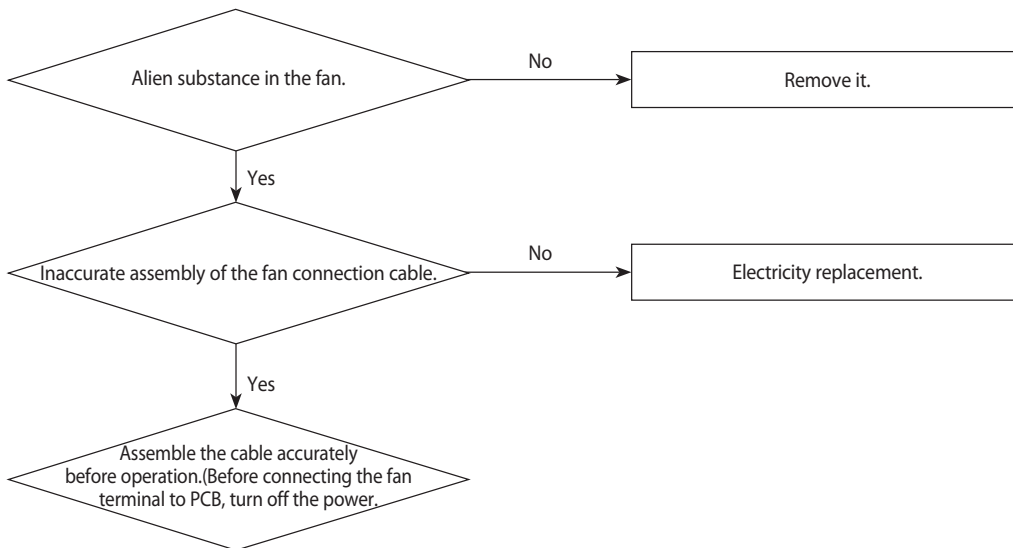
1. How to check



4-4-34 E458, E475 : Electrical malfunctions of the outdoor machine

Outdoor unit display	E458.E475
Indoor unit display	×(Operation) ●(Timer) ●(Fan) ●(Filter) ×(Defrost)
Criteria	• Refer to the below method.
Cause of problem	<ul style="list-style-type: none"> • Fan stuck. • Poor fan connection. • Damaged fan.

1. How to check



4-4-35 E702 : EEV Off-malfunctions (1st)

1. How to check

The above malfunction codes do not indicate a malfunction of the product. All you have to do is change the temperature suitably for the limits shown in the manual. When the product malfunctions, if the actual situation does not match the above diagnosis, measure the temperature of incoming air with S-net to see if the measurement is the same as the actual outdoor temperature. If not, replace the temperature sensor.

2. Inspection:

- 1) See if the EEV cable is properly connected to the indoor machine PCB.
- 2) See if the EEV coil is inserted into the EEV main body.
- 3) Visually inspect the rust on the EEV coil. Measure the inter-terminal resistance and look for open/short circuited areas.
- 4) Press the outdoor machine PCB reset button (K3) to see if the same error occurs again.
 - Problems with turning off, then start the indoor machine where the error occurs.
 - Problems with turning on, then do not operate the indoor machine where the error occurs.
- 5) If the above inspections successful, replace the electronic expansion valve of the problematic indoor machine.
 - It is very complicated work to replace the electronic expansion valve because it takes a collection of coolant from the system. Before replacement, you must check the above items.

4-4-36 E703 : EEV Off inefficiently (1st)

1. Diagnosis:

- 1) Check only if the AC is on. (The following conditions met for more than 20 minutes.).

Cooler exit/exhaust air temp>3°C	OK
Sucked air temp-cooler inlet temperature>4°C	NO
Sucked air temp-cooler exit temperature>4°C	NO
Compressor operation, indoor machine operation, thermostat operation	OK
Malfunctions	EEV Off-malfunctions

- 2) Check if the heater is on. (All the conditions should be met.)

- Min. two indoor machines operate when the thermostat is started.
- The mean high pressure exceeds 18kg/cm².
- 5 minutes of safe operation.
- Maintained for more than 5 minutes. Indoor machine evaporator inlet temperature<actual temperature+3°C and evaporator exit temperature<actual temperature +3°C.

2. Inspection

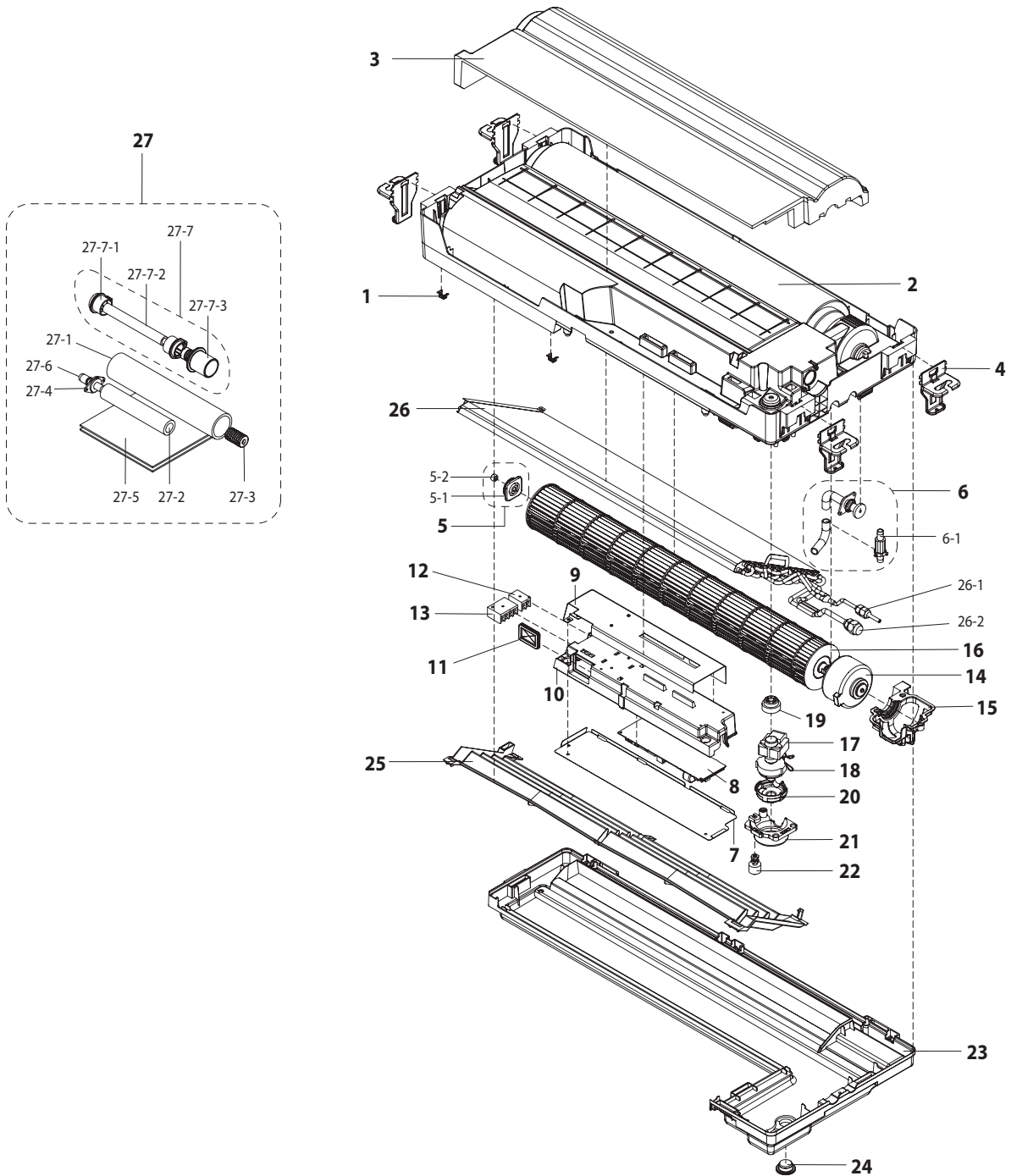
- 1) Check if the electronic expansion valve is accurately connected to the indoor machine PCB.
- 2) Check if the electronic expansion valve coil is inserted into the main body.
- 3) Visually inspect the rust on the EEV coil. Measure the inter-terminal resistance and look for open/short circuited areas.
- 4) Press the outdoor machine PCB reset button (K3) to see if the same error occurs again.
 - Problems with turning off, then start the indoor machine where the error occurs.
 - Problems with turning on, then do not operate the indoor machine where the error occurs.
- 5) If the above inspections are successful, replace the electronic expansion valve of the problematic indoor machine.
 - It is very complicated work to replace the electronic expansion valve because it takes a collection of coolant from the system. Before replacement, you must check the above items.

5. Exploded Views and Parts List

5-1 Indoor Unit

5-1-1 Slim1 way cassette type

■ Body

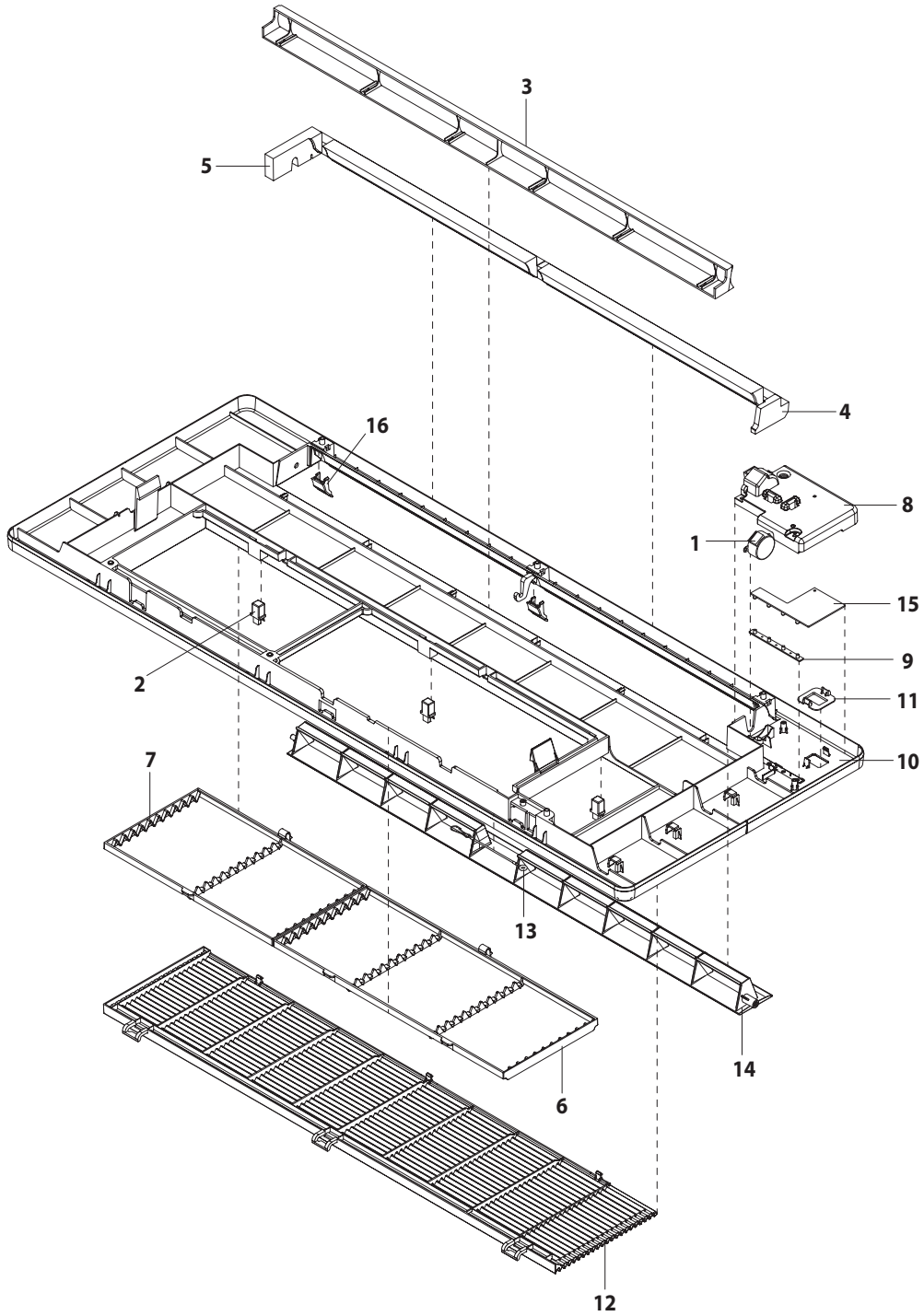


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB61-03127A	BRACKET-PAN	SGCC-M,1.0,12,20,	2	SNA
2	DB64-01763A	CABINET-IN	ABS,3,417,1011,-,GRAY	1	SNA
3	DB64-01764A	CABINET-CUSHION	EPS,-,310,835,-,WHT	1	SNA
4	DB70-00753A	PLATE-HANGER	SGCC-M,1.2,73,100	4	SA
5	DB94-00258A	ASS'Y BEARING	G-PJT,CR,BLK	1	SA
5-1	DB73-00128A	RUBBER-BEARING	G-P/J,CR,55,BLK	1	SNA
5-2	DB94-40007A	ASS'Y BEARING	ASS'Y,POLYSLIDER-PG5	1	SA
6	DB94-01546A	ASS'Y-DRAIN SOCKET	ASS'Y	1	SNA
6-1	DB62-04236A	VALVE CHECK	ASS'Y,72.5	1	SA
7	DB70-00754A	PLATE-COVER CONTROL	SGCC-M,0.7,96,428	1	SNA
8	DB93-05558C	ASS'Y PCB MAIN	FR-4,1.6T,230mmx70mm,SMPS	1	SA
9	DB61-03126A	CASE-CONTROL	ABS,2.5,113,430,BLK	1	SNA
10	DB70-00755A	PLATE-CASE CONTROL	SGCC-M,0.7,96,428	1	SNA
11	DB73-00307A	RUBBER-WIRE HOLE	NBR,52.1,BLK	1	SNA
12	DB95-01058D	ASS'Y-TERMINAL BLOCK	2P	1	SNA
13	DB95-01101E	ASS'Y-TERMINAL BLOCK	4P,F1,F2,V1,V2	1	SNA
14	DB31-00436A	MOTOR FAN	SFN-220-20-4B-1,0.3A,40W,220V/230V,1250,50/60Hz, B,E,YH396-05VRT/YT396B-RT,700,ST730679-3,500	1	SA
15	DB63-01698A	COVER MOTOR	ABS,2.5,147,135,GRAY	1	SNA
16	DB94-00040Y	ASS'Y-CROSS FAN	ASS'Y	1	SA
17	DB67-00833A	DRAIN-PUMP	PBT,1.0,WHITE	1	SA
18	DB69-00137A	BAND-RING	STS304,T1.5,PI14	1	SNA
19	DB73-00390B	RUBBER-BASE PUMP	NBR,30,BLK	1	SNA
20	DB73-00391B	RUBBER-CAP PUMP	NBR,30,BLK	1	SNA
21	DB63-01699A	COVER-PUMP	ABS,2.5,78,100,GRAY	1	SNA
22	DB95-00131M	ASS'Y-SENSOR FLOAT SLIM1WAY	SmH250-02L,180mm,RED,BLK	1	SA
23	DB94-01367C	ASS'Y DRAIN PAN	ASS'Y	1	SA
24	DB73-00133B	RUBBER-CAP DRAIN SOCKET	NBR,38.30.27.24/15.12.9.4,45,15,BLK	1	SNA
25	DB94-01492A	ASS'Y DRAIN PAN-SUB	ASS'Y	1	SA
26	DB96-08129A	ASS'Y EVAP TOTAL	ASS'Y	1	SA
26-1	DB60-30010A	NUT-FLARE	HEX,7/16-20UnF	1	SA
26-2	DB60-30010C	NUT-FLARE	HEX,3/4-16UnF	1	SA
27	DB94-01278A	ASS'Y DRAIN-HOSE INSTALL	ASS'Y	1	SA
27-1	DB62-01960B	INSULATION-DRAIN	FOAM-PE,GRAY,200x45x10	1	SNA
27-2	DB62-04783A	INSULATION DRAIN-HOSE	FOAM-PE,T12,20,165,GREY,NON FLAmMABILITY	1	SNA
27-3	DB63-00237A	GROMMET-HANGER	NBR	8	SNA
27-4	DB67-00285A	DRAIN HOSE-SOCKET	POM,T3	1	SNA
27-5	DB72-00401C	INSULATION-JOINT OUT	FOAM-PE,T3,W200,L200,GREY	2	SNA
27-6	DB73-00089B	RUBBER-PLUG	NBR,D10,30,BLK	1	SNA
27-7	DB94-01258C	ASS'Y DRAIN-HOSE JOINT	ASS'Y	1	SA
27-7-1	DB67-00335A	DRAIN HOSE-HOUSING	BLUE	2	SNA
27-7-2	DB67-00336E	HOSE DRAIN-PVC	SOFT PVC,14,20,3,GRAY	1	SNA
27-7-3	DB67-00805C	DRAIN HOSE-JOINT B	ABS,T3.0,NORmAL	1	SA

Slim 1 way cassette type(cont.)

■ Panel(A type)

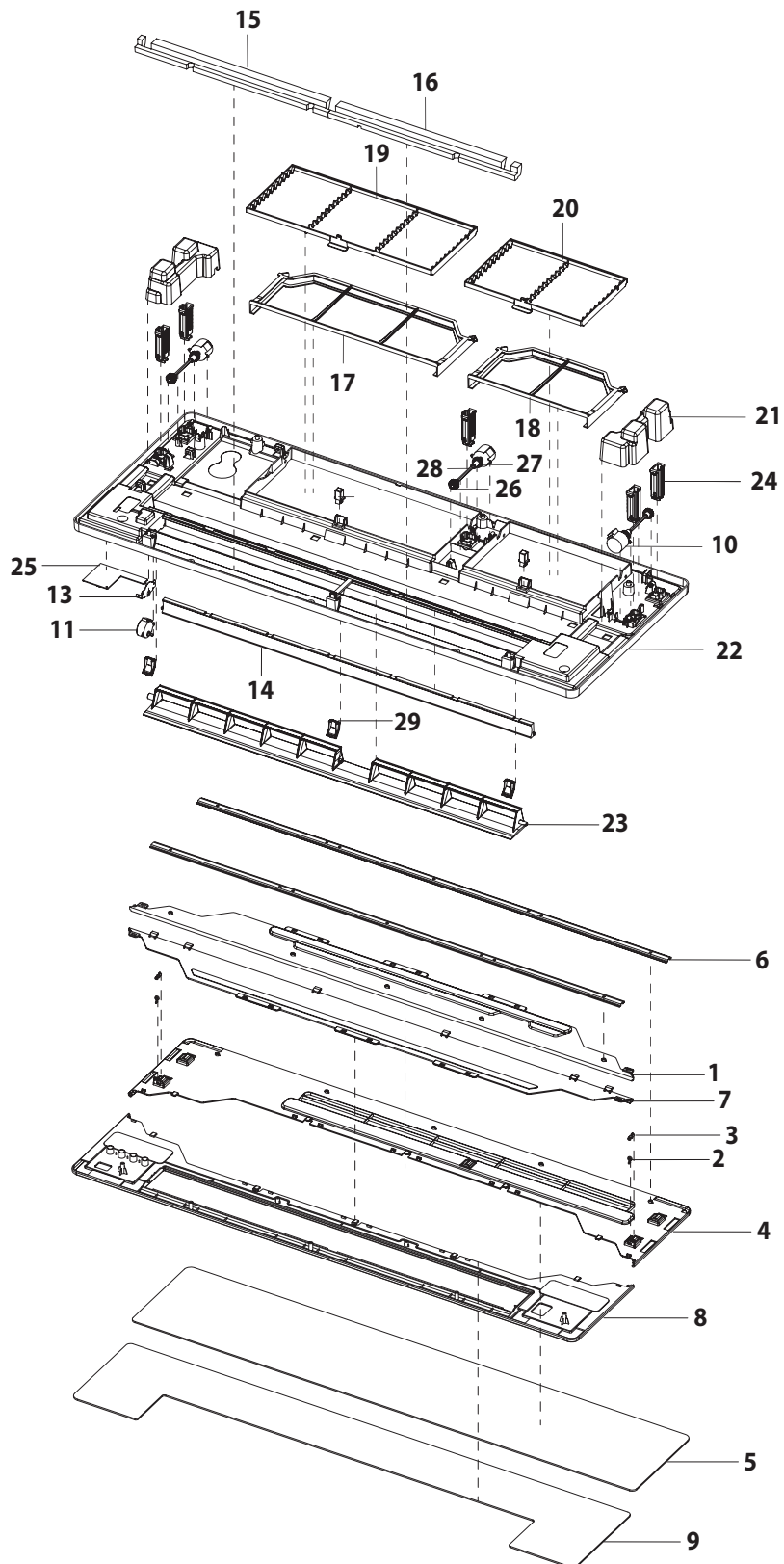


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB31-00370A	MOTOR STEP	35BYJ46,DC12V800gf.cm,SmH250-05L(WHT),100mm	1	SA
2	DB61-02894A	HOLDER-PUSH LATCH	POM,PC+PE,11.9,12.9,21,BLACK	3	SA
3	DB61-03123A	GUIDE-AIR OUTLET	HIPS,2,5,70,860,GRAY	1	SNA
4	DB61-03124A	GUIDE-CUSHION AIR OUT LF	EPS,105,426,WHT	1	SNA
5	DB61-03125A	GUIDE-CUSHION AIR OUT RH	EPS,105,463,WHT	1	SNA
6	DB63-01694A	FILTER-AIR INLET	ABS,2,196,437,BLK	1	SA
7	DB63-01695A	FILTER-AIR INLET G	ABS,2,196,320,BLK	1	SA
8	DB63-01697A	COVER-DISPLAY PCB	HIPS,2,5,117,154,BLK	1	SNA
9	DB64-00237A	PANEL-DISPLAY LED	AKM-2800,PC	1	SA
10	DB64-01759A	PANEL FRONT-SLIM 1WAY	ABS,40,465,1180,DA White	1	SNA
11	DB64-01760A	WINDOW-DISPLAY PCB	PC,1,5,40,40,-,MILKY WHT	1	SNA
12	DB64-01762A	GRILLE-AIR INLET	ABS,2,0,213,859,WHT	1	SA
13	DB65-00023A	CLIP-WIRE-ASSY	NYLON,AG-240E	1	SNA
14	DB66-01187A	BLADE-G	ABS,5,11.6,WHT	1	SNA
15	DB93-05321A	ASSY PCB SUB	FR-1,LEAD FREE	1	SNA
16	DB63-01696A	COVER-SCREW	ABS,2,5,19,34,WHT	1	SNA

Slim 1 way cassette type(cont.)

■ Panel(B type)

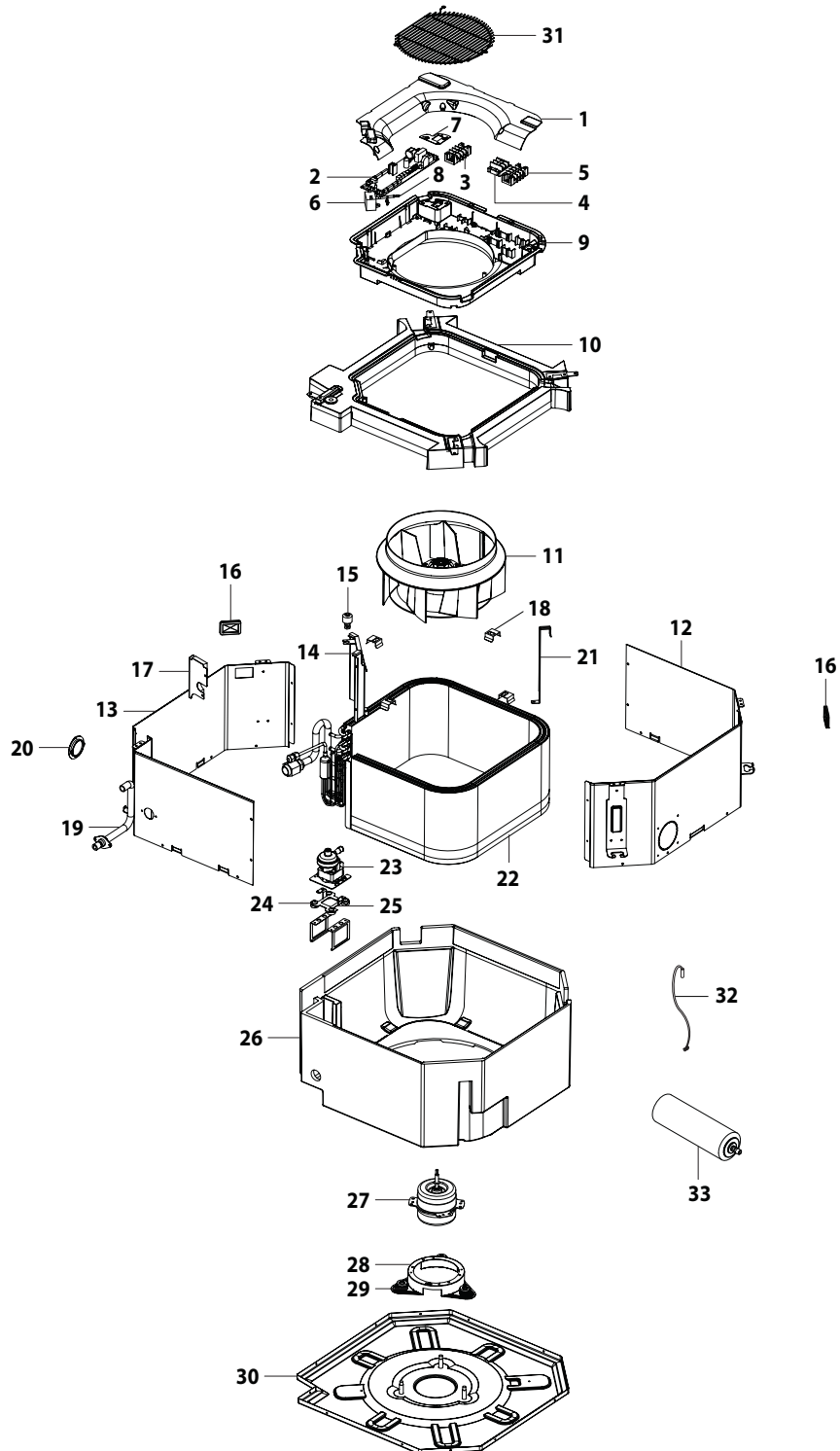


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB61-03230A	GUIDE-INLET ACRYLIC	AGSP1181,ABS,2,230,1181,SLIM1WAY	1	SA
2	DB61-03359A	HINGE-LOCK	AGSP1181G,POM,1,7,14,3,SLIDE PANEL	2	SA
3	DB61-03362A	HINGE	AGSP1181G,POM,2,5,8.5,20,SLIDE PANEL	2	SA
4	DB64-01836A	PANEL-INLET SLIDE	AGSP1181,ABS,2,230,1181,SLIM1WAY	1	SA
5	DB64-01884A	WINDOW-PANEL INTAKE	AGSP1181G,PmmA,3,225,1174,SLIDE PANEL	1	SA
6	DB70-00902A	PLATE-PANEL S	AGSP1181,SGCC-P,1,198,1143,SLIM1WAY	2	SA
7	DB61-03231A	GUIDE-FRONT ACRYLIC	AGSP1181,ABS,2,230,1181,SLIM1WAY	1	SA
8	DB64-01842A	PANEL FRONT-SLIDE	AGSP1181,ABS,2,230,1181,SLIM1WAY	1	SA
9	DB64-01883A	WINDOW-PANEL FRONT	AGSP1181G,PmmA,3,225,1174,SLIDE PANEL	1	SA
10	DB31-00368A	MOTOR STEP	50BYJ46-1,GLOBAL3-PJT,3500gf.cm,60,220,12Vdc,40Ω	3	SC
11	DB31-00370A	MOTOR STEP	35BYJ46,DC12V,DC12V,800gf.cm, 5mH250-05L(WHT),100mm	1	SA
12	DB61-02894A	HOLDER-PUSH LATCH	HP-C180VC,POM,PC+PE,11.9,12.9,21,BLACK,CRYSTAL-PJT	2	SA
13	DB61-03158A	BRACKET-STEPPING MOTOR	AG450951G,SGCC-M,T1.0,31.5,53,WHT,STAR	1	SNA
14	DB61-03266A	GUIDE-AIR OUTLET S	AGSP1181,ABS,2,5,32,760,SLIM1WAY	1	SA
15	DB61-03267A	GUIDE-CUSHION AIR OUT S LF	AGSP1181,ABS,12,32,448,SLIM1WAY	1	SA
16	DB61-03268A	GUIDE-CUSHION AIR OUT S RH	AGSP1181,ABS,12,32,435,SLIM1WAY	1	SA
17	DB61-03366A	GUIDE-FILTER L	AGSP1181G,ABS,2,55,438,SLIDE PANEL	1	SA
18	DB61-03367A	GUIDE-FILTER S	AGSP1181G,ABS,2,55,278,SLIDE PANEL	1	SA
19	DB63-01858A	FILTER-AIR INLET L	AGSP1181G,ABS,3,178,430,BLK,SLIDE PANEL	1	SA
20	DB63-01785A	FILTER-AIR INLET S	AGSP1181,ABS,2,180,280,BLK,SLIM1WAY	1	SA
21	DB63-01786A	COVER-GEAR	AGSP1181,ABS,2,5,68,164,SLIM1WAY	2	SA
22	DB64-01835A	PANEL-BASE SLIDE	AGSP1181,ABS,2,460,1181,SLIM1WAY	1	SA
23	DB66-01219A	BLADE-SLIDE	AGSP1181,ABS,2,SLIM1WAY	1	SA
24	DB66-01239A	GEAR RACK	AGSP1181,ABS,2,17,2,5,WHT,SLIM1WAY	5	SA
25	DB93-05321A	ASS'Y PCB SUB	SLIM 1WAY DISPLAY PCB,PANEL, FR-1, LEAD FREE, AIXCSH040B1, AIXCSH032B1, AIXCSH023B1	1	SNA
26	DB66-00422A	GEAR-PINION B	AS-SA680,POM,1,18,24,WHITE,20,P.C.D18,	3	SA
27	DB66-01290A	GEAR-PINION A	AS-SA680,POM,1,18,26.5,WHITE,20,P.C.D18,	3	SA
28	DB70-00320B	BAR-HEXA	AGSP1181,STS304,5,85,SLIDE PANEL	3	SNA
29	DB63-01696B	COVER-SCREW S	AGSP1181W,ABS,2.5,Neo Victory Gray, Spray-Color:EMPIRE SILVER	3	SNA

5-1-2 Mini 4 way cassette type

■ Body

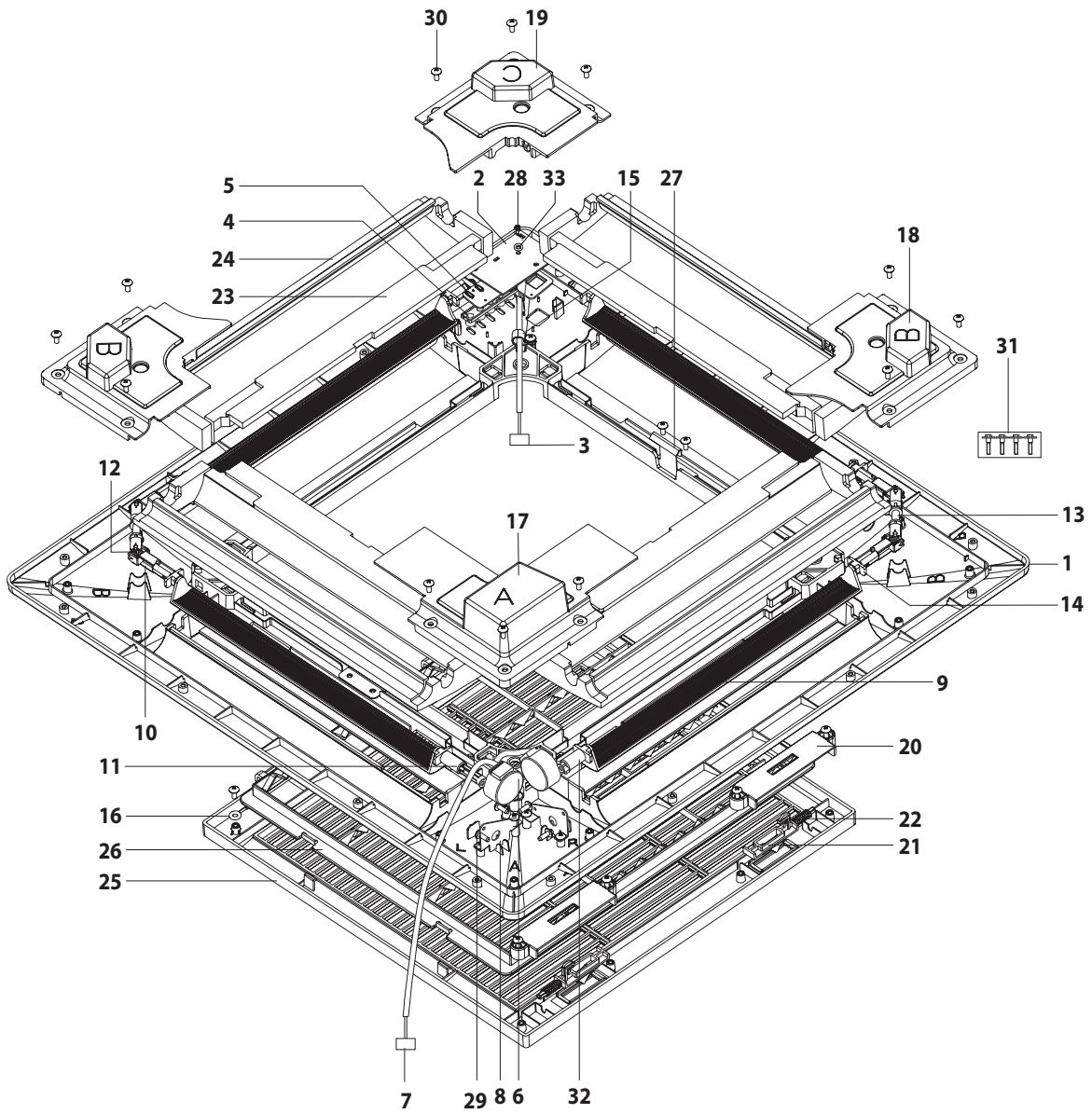


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB63-01367A	COVER CONTROL	ABS(V0),T2.0	1	SNA
2	DB93-04122J	ASS'Y PCB MAIN	MINI 4WAY CASSETTE	1	SNA
3	DB65-00029M	TERMINAL BLOCK 4P	1(L),2(N),Vc,Vc	1	SA
4	DB65-00182A	TERMINAL BLOCK 2P	F1,F2	1	SA
5	DB65-00029Z	TERMINAL BLOCK 4P	V1,V2,F3,F4	1	SA
6	2301-001378	C-FILM,LEAD-OTHER	450VAC,3.5uF	1	SA
7	DB61-02499A	BRACKET EARTH WIRE	SGCC-M,T1.0	1	SA
8	DB32-00067D	THERMISTOR WIRE IN	103AT,-20~100PC	1	SA
9	DB61-02486B	PCB BASE CONTROL	5VA,T2.0	1	SNA
10	DB94-00826A	ASS'Y DRAIN PAN	MINI 4WAY CASSETTE	1	SA
11	DB94-00812A	ASS'Y FAN TURBO	SAN+GF20%	1	SA
12	DB90-02221A	ASS'Y CABI SIDE A	MINI 4WAY CASSETTE	1	SA
13	DB90-02220A	ASS'Y CABI SIDE B	MINI 4WAY CASSETTE	1	SA
14	DB94-00847B	ASS'Y PARTITION	MINI 4WAY CASSETTE	1	SA
15	DB95-00131K	ASS'Y SENSOR FLOAT	250mm,MINI 4WAY CASSETTE	1	SA
16	DB73-00307A	RUBBER WIRE HOLE	NBR,52.1	2	SNA
17	DB90-02225A	ASS'Y COVER PIPE	MINI 4WAY CASSETTE	1	SA
18	DB61-02527A	HOLDER EVAP	STS304,T0.7	4	SA
19	DB94-00846A	ASS'Y DRAIN HOSE	MINI 4WAY CASSETTE	1	SA
20	DB90-01010A	ASS'Y COVER DRAIN	CH040EZM,NEW 4WAY CASSETTE	1	SNA
21	DB61-02490A	GUIDE EVAP	STS304,T0.7	1	SA
22	DB96-05354D	ASS'Y EVAP UNIT	MINI 4WAY CASSETTE	1	SNA
23	DB31-00303A	PUMP DRAIN	FUJIKOKI,220V 50Hz,60Hz	1	SA
24	DB73-00022C	RUBBER PUMP	EPDM+BUTYL,40~45P	4	SNA
25	DB61-02492A	BRACKET PUMP	SGCC-M,T1.5	1	SA
26	DB90-02223A	ASS'Y BASE CUSHION	MINI 4WAY CASSETTE	1	SA
27	DB31-00305C	MOTOR FAN	ASS035WTVA,4WAYMINI-PJT,50Hz	1	SA
28	DB61-02495A	BRACKET MOTOR IN	SGCC-M,T1.2	1	SA
29	DB63-01407A	GROMMET MOTOR	NR,35P	3	SA
30	DB90-02222A	ASS'Y CABI BASE	MINI 4WAY CASSETTE	1	SA
31	DB63-01372A	GUARD SAFETY	HSWR,T2.5	1	SA
32	DB32-00066E	THERMISTOR EVAP IN	300mm,MINI 4WAY CASSETTE	1	SA
33	DB94-01287D	ASS'Y DRAIN HOSE INSTALL	MINI 4WAY CASSETTE	1	SNA

Mini 4 way cassette type(cont.)

■ Panel(PMSMAA)

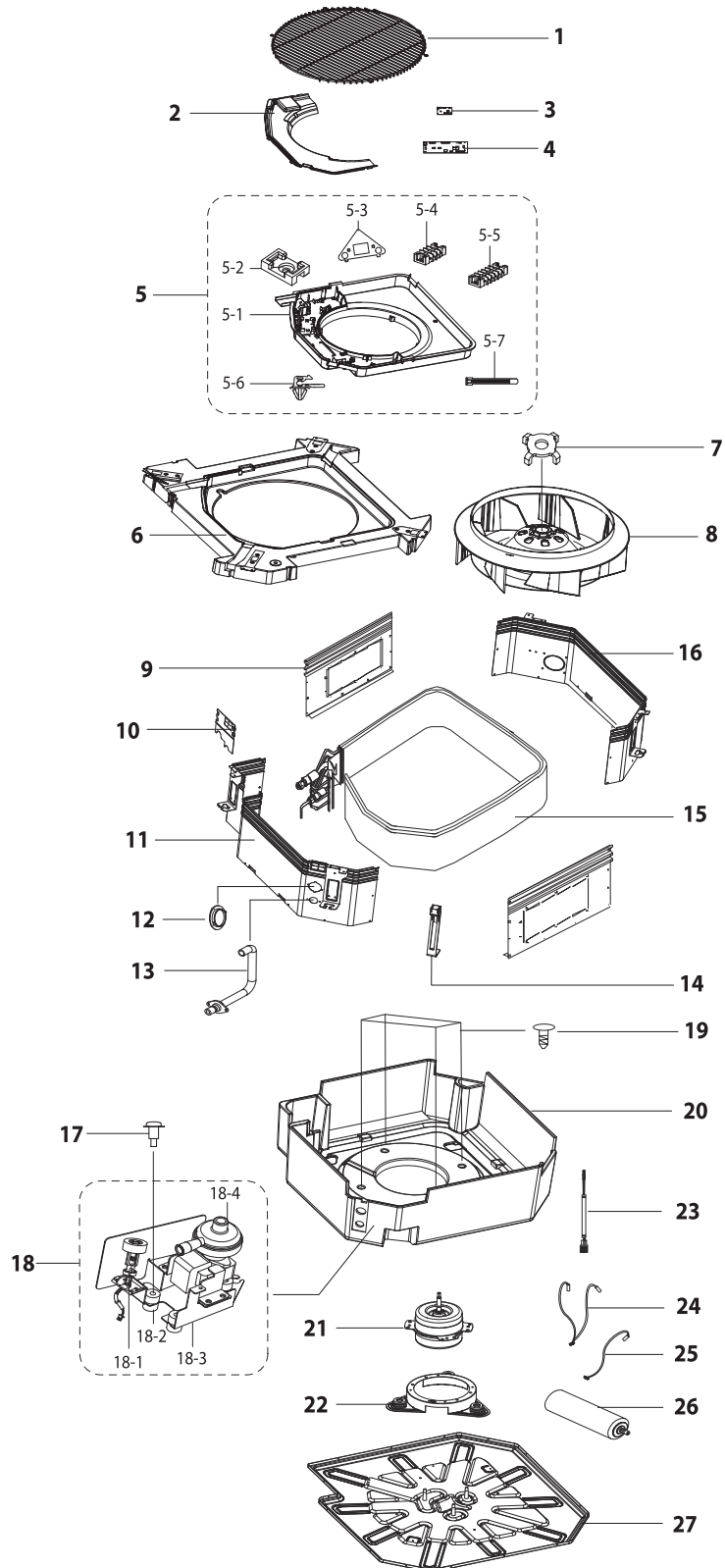


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB64-01421A	PANEL-FRONT	ABS,T3.0,WHT	1	SA
2	DB93-02803A	ASS'Y PCB MAIN	ASS'Y	1	SA
3	DB39-00082E	CONNECT	WIRE-DISPLAY PCB L990mm	1	SA
4	DB64-01422A	BUTTON-PCB	ABS,BLK	1	SA
5	DB64-01424A	INLAY-PCB	PC,WHT	1	SA
6	DB31-00370A	MOTOR	STEPPING 35BYJ46-276,800g.cm,12V	2	SA
7	DB39-00542E	CONNECT	WIRE-STEP MOTOR I320mm	1	SA
8	DB61-02485B	BRACKET	MOTOR-PANEL SGCC-M,T0.8	2	SA
9	DB66-01008A	BLADE-H	PBT/ABS,T3.5	4	SA
10	DB61-01871A	CONNECTOR-BLADE	POM,NTR	4	SA
11	DB61-02480A	CONNECTOR-MOTOR A	POM,NTR	1	SA
12	DB66-00756A	JOINT UNIVERSAL	POM,NTR	4	SA
13	DB66-01009A	LINK-BLADE	POM,NTR	2	SA
14	DB61-02488A	BUSH-MINI	POM,NTR	8	SA
15	DB65-10074D	CLAMP CABLE	DA-4N	2	SA
16	DB65-00023A	CLIP-WIRE-ASS'Y	L130mm	1	SA
17	DB63-01364A	COVER-A	ABS(V0),BLK	1	SA
18	DB63-01366A	COVER-B	ABS(V1),BLK	2	SA
19	DB63-01377A	COVER-C	ABS(V2),BLK	1	SA
20	DB63-01036A	COVER-KNOB	HIPS,UL94-HB,WHT	2	SA
21	DB64-01145A	KNOB-SLIDE	HIPS,94HB,HG-0760,WHT	2	SA
22	DB67-00030A	SPRING-KNOB	STS304,T0.5	2	SA
23	DB69-01269A	CUSHION-IN	EPS,30	4	SA
24	DB69-01270A	CUSHION-OUT	EPS,30	4	SA
25	DB64-01420A	GRILLE-AIR	INLET ABS,WHT	1	SA
26	DB63-01423A	FILTER-PRE	MINI PP,BLK,ANTI BACTERIAL FILTER	1	SA
27	DB70-00302A	PLATE-HANGER	STS304,T0.5	2	SA
28	6002-000534	SCREW-TAPPING	PH,2S,M3,L8,ZPC(BLK),SWRCH18A	1	SNA
29	6002-000536	SCREW-TAPPING	PH,2S,M4,ZPC(YEL)	4	SNA
30	6002-001079	SCREW-TAPPING	TH,2S,M4,L10	27	SNA
31	6011-001493	BOLT-HEX	M6,L10,ZPC(YEL),SWRM18A	4	SA
32	DB61-02480B	CONNECTOR-MOTOR B	POM,NATURAL	1	SA
33	-	WASHER	-	1	SNA

5-1-3 4 way cassette type

■ Body(AVXC4H052/072C*, ND052/0724H***)

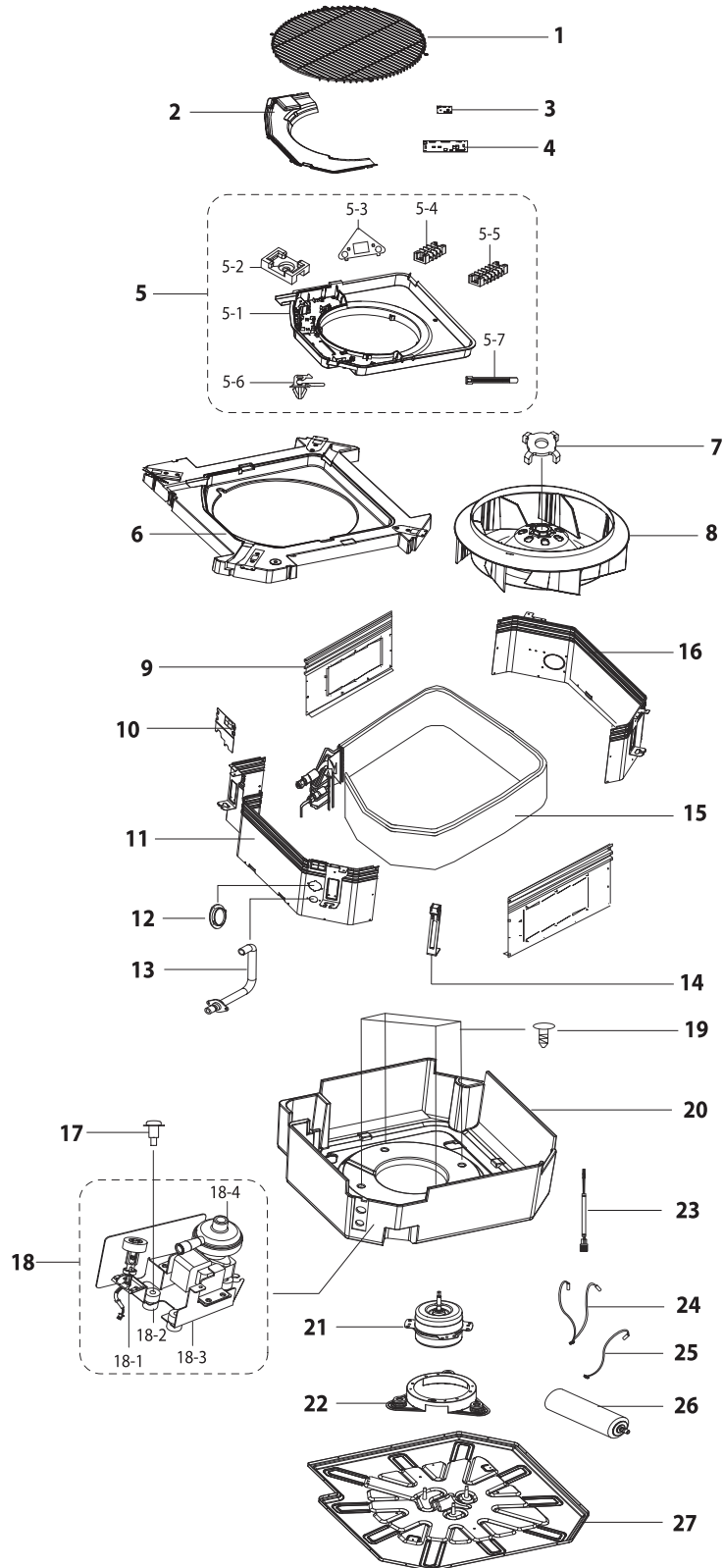


■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				AVXC4H052C* ND0524H***	AVXC4H072C* ND0724H***	
1	DB63-01480A	GUARD-SAFETY	CH140EAMC,HSWR	1	1	SNA
2	DB63-01481A	COVER-CONTROL	CH140EAMC,ABC	1	1	SNA
3	DB93-05981G	ASS'Y MAIN PCB	CH140EAMC	1	1	SNA
4	DB93-04119B	ASS'Y PCB SUB-POWER	CH140EAMC	1	1	SNA
5	DB93-05254L	ASS'Y CONTROL IN	ASS'Y	1	1	SNA
5-1	DB61-03092B	BASE CONRTROL	5VA	1	1	SNA
5-2	DB61-02501A	TIE MOUNTS	NYLON66	2	2	SNA
5-3	DB61-02700A	BRACKET EARTH WIRE	SGCC-M	1	1	SNA
5-4	DB65-00029M	TERMINAL BLOCK 4P	ASS'Y,6P	1	1	SA
5-5	DB65-00029X	TERMINAL BLOCK 6P	ASS'Y,4P	1	1	SA
5-6	DB61-02765A	HOLDER SENSOR	PP	1	1	SNA
5-7	6501-001052	REUSABLE CABLE TIES	NYLON66	2	2	SNA
6	DB94-01062A	ASS'Y CUSHION DRAIN	ASS'Y,EPS,V0	1	1	SNA
7	DB61-01783A	BRACKET WASHER FAN	SGCC-M	1	1	SNA
8	DB67-00804A	ASS'Y FAN TURBO	ABS+GF10%	1	1	SNA
9	DB64-01734A	CABI SIDE	SGCC-M	2	2	SNA
10	DB90-02692A	ASS'Y COVER PIPE	ASS'Y	1	1	SNA
11	DB90-03189A	ASS'Y CABI FEONT	ASS'Y,SGCC-M	1	1	SNA
12	DB90-01950B	ASS'Y COVER DRAIN PUMP	ASS'Y	1	1	SNA
13	DB94-01389A	ASS'Y HOSE DRAIN	ASS'Y	1	1	SNA
14	DB61-03093A	HOLDER EVAP	STS301	2	2	SNA
15	DB96-08027B	ASS'Y EVAP UNIT	ASS'Y	1	-	SNA
	DB96-08027A	ASS'Y EVAP UNIT	ASS'Y	-	1	SNA
16	DB90-03190A	ASS'Y CABI BACK	ASS'Y,SGCC-M	1	1	SNA
17	DB90-02090B	SCREW PUMP	M5X30	-	-	SA
18	DB94-01381A	ASS'Y DRAIN PUMP	ASS'Y	1	1	SNA
18-1	DB34-00063A	SWITCH FLOAT	ASS'Y	1	1	SNA
18-2	DB73-00345A	RUBBER PUMP	NBR	3	3	SNA
18-3	DB61-02709A	BRACKET DRAIN PUMP	SGCC-M	1	1	SNA
18-4	DB67-00790A	DRAIN PUMP	ASS'Y	1	1	SNA
19	DB61-02349A	CLIP BRUSH	NYLON 66	-	-	SNA
20	DB97-05920A	ASS'Y CUSHION BASE	ASS'Y,EPS,V0	1	1	SNA
21	DB31-00439A	MOTOR INDOOR	BLDC	1	1	SA
22	DB90-03188A	ASS'Y BRACKET MOTOR	ASS'Y	-	-	SNA
23	DB93-07219A	CONNECT MOTOR FAN SUB	ASS'Y	1	1	SNA
24	DB32-00169A	THERMISTOR IN	ASS'Y	1	1	SA
25	DB32-00141A	THERMISTOR EVAP	ASS'Y	1	1	SNA
26	DB94-01389A	ASS'Y DRAIN HOSE	ASS'Y	1	1	SNA
27	DB90-02689B	ASS'Y CABI BASE	ASS'YSGCC-M	1	1	SNA

4 way cassette type(cont.)

■ Body(AVXC4H100/110/145C*, ND100/110/145H***)

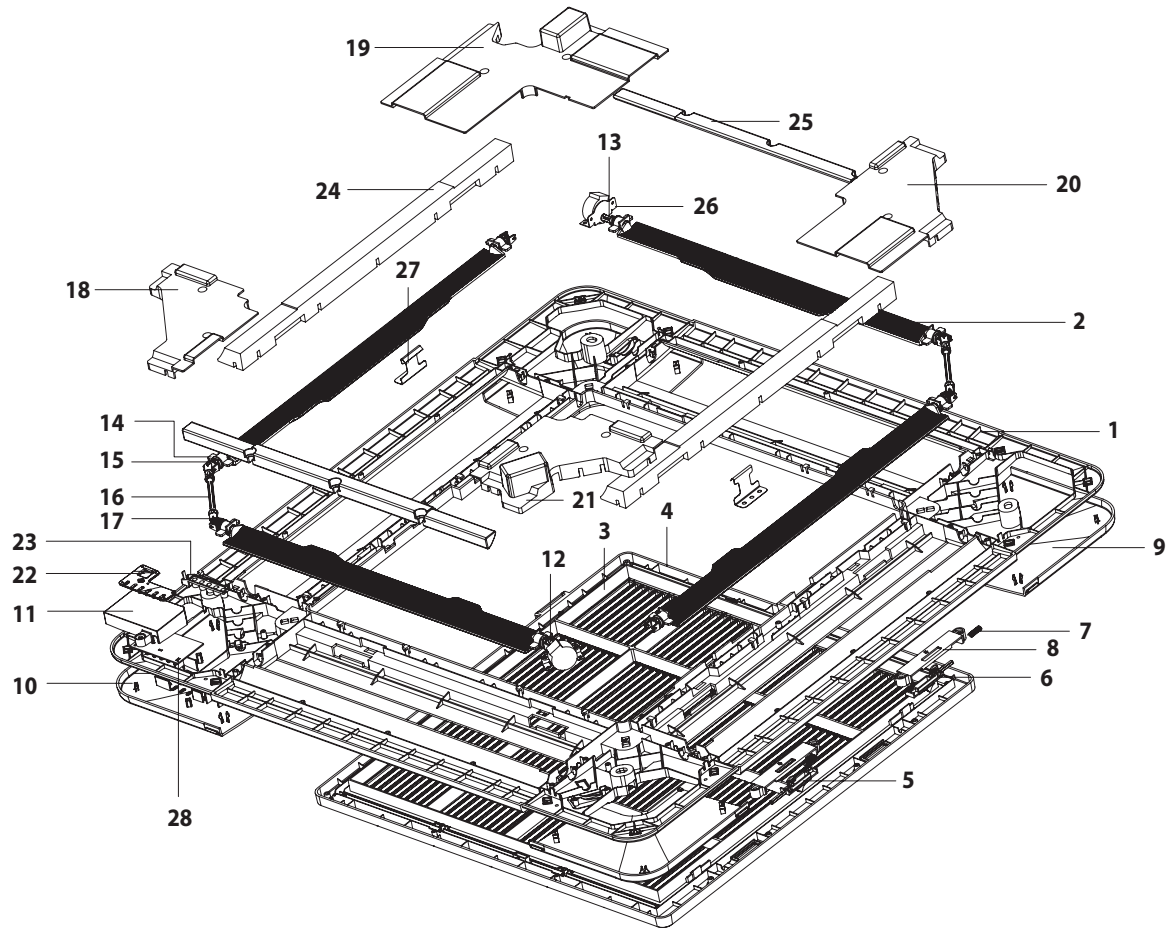


■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				AVXC4H100C* AVXC4H110C* ND1004H*** ND1104H***	AVXC4H145C* ND0724H***	
1	DB63-01480A	GUARD-SAFETY	CH140EAMC,HSWR	1	1	SA
2	DB63-01481A	COVER-CONTROL	CH140EAMC,ABS	1	1	SNA
3	DB93-05981G	ASS'Y MAIN PCB	CH140EAMC	1	1	SA
4	DB93-04119B	ASS'Y PCB SUB-POWER	CH140EAMC	1	1	SA
5	DB93-04404E	ASS'Y CONTROL IN	ASS'Y	1	1	SA
5-1	DB61-02706B	BASE CONTROL	5VA	1	1	SNA
5-2	DB61-02501A	TIE MOUNTS	NYLON66	2	2	SNA
5-3	DB61-02700A	BRACKET EARTH WIRE	SGCC-M	1	1	SNA
5-4	DB65-00029M	TERMINAL BLOCK 4P	ASS'Y ,6P	1	1	SNA
5-5	DB65-00029X	TERMINAL BLOCK 6P	ASS'Y ,4P	1	1	SNA
5-6	DB61-02765A	HOLDER SENSOR	PP	1	1	SNA
5-7	6501-001052	REUSABLE CABLE TIES	NYLON66	2	2	SNA
6	DB94-01062A	ASS'Y CUSHION DRAIN	ASS'Y,EPS,V0	1	1	SNA
7	DB61-01783A	BRACKET WASHER FAN	SGCC-M	1	1	SA
8	DB67-00682A	ASS'Y FAN TURBO	ABS+GF10%	1	1	SA
9	DB64-01562A	CABI SIDE	SGCC-M	2	2	SA
10	DB90-02692A	ASS'Y COVER SIDE	ASS'Y	1	1	SA
11	DB90-02690A	ASS'Y CABI FRONT	ASS'Y,SGCC-M	1	1	SA
12	DB90-01950B	ASS'Y COVER DRAIN PUMP	ASS'Y	1	1	SA
13	DB90-02693A	ASS'Y HOSE DRAIN	ASS'Y	1	1	SA
14	DB61-02701A	HOLDER EVAP	STS301	2	2	SA
15	DB96-06677A	ASS'Y EVAP UNIT	ASS'Y	-	1	SA
	DB96-06707A	ASS'Y EVAP UNIT	ASS'Y	1	-	SA
16	DB90-02688A	ASS'Y CABI BACK	ASS'Y,SGCC-M	1	1	SA
17	DB97-02090B	SCREW PUMP	M5X30	3	3	SA
18	DB94-01381A	ASS'Y DRAIN PUMP	ASS'Y	1	1	SA
18-1	DB34-00063A	SWITCH FLOAT	ASS'Y	1	1	SNA
18-2	DB73-00345A	RUBBER PUMP	NBR	3	3	SNA
18-3	DB61-02709A	BRACKET DRAIN PUMP	SGCC-M	1	1	SNA
18-4	DB67-00790A	DRAIN PUMP	ASS'Y	1	1	SNA
19	DB61-02349A	CLIP BRUSH	NYLON 66	4	4	SNA
20	DB90-02693A	ASS'Y CUSHION BASE	ASS'Y,EPS,V0	1	1	SA
21	DB31-00364A	MOTOR INDOOR	BLDC	1	1	SA
22	DB94-01059A	ASS'Y BRACKET MOTOR	ASS'Y	-	-	SA
23	DB93-07219A	CONNECT MOTOR FAN SUB	ASS'Y	1	1	SA
24	DB32-00169A	THERMISTOR IN	ASS'Y	1	1	SA
25	DB32-00141B	THERMISTOR EVAP	ASS'Y	1	1	SA
26	DB94-01078A	ASS'Y DRAIN HOSE	ASS'Y	1	1	SA
27	DB90-02689A	ASS'Y CABI BASE	ASS'Y,SGCC-M	1	1	SNA

4 way cassette type(cont.)

■ Panel(P4SMA)

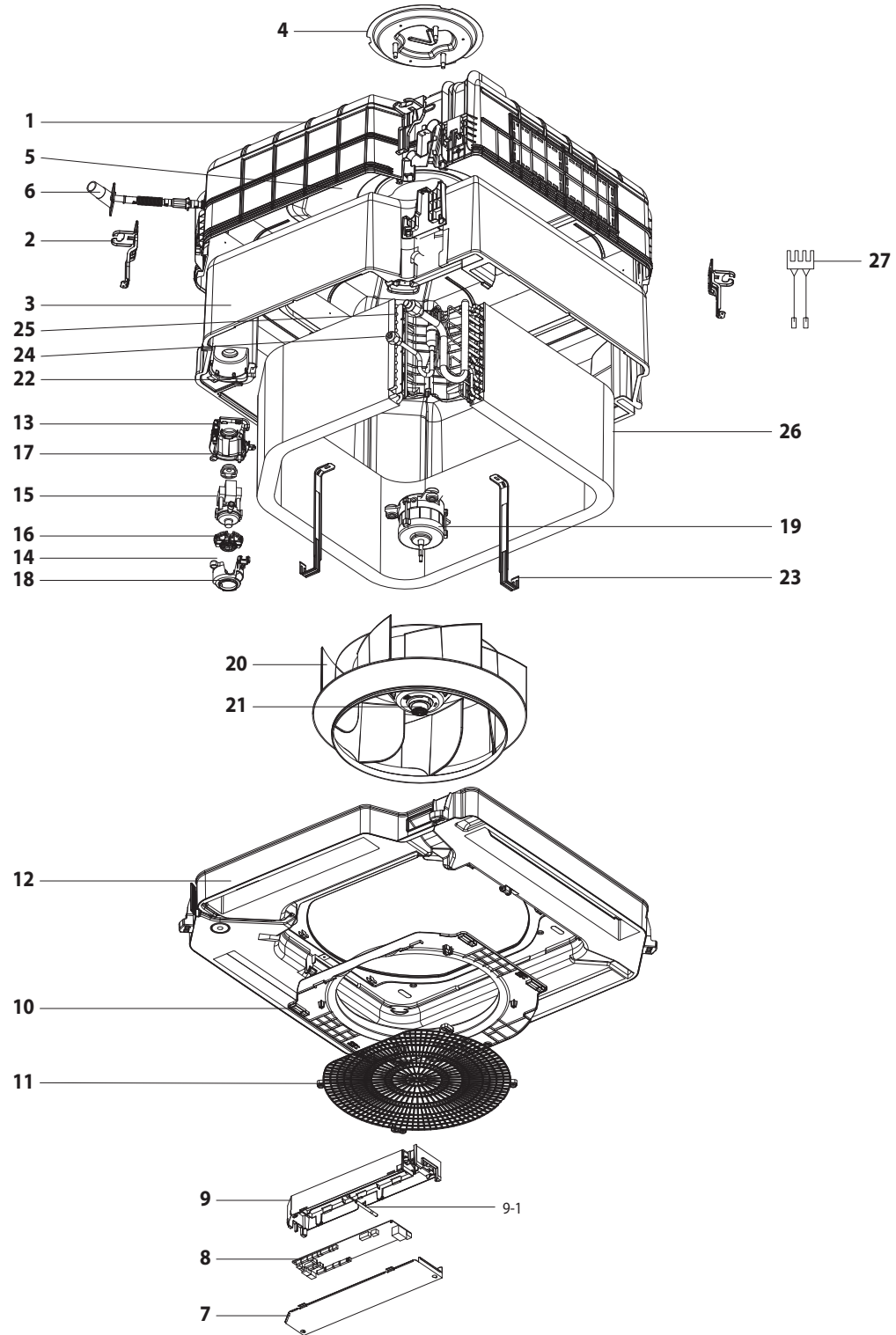


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB64-01564B	PANEL FRONT	HF ABS(Korea)	1	SA
2	DB66-01102B	BLADE	PBT+20%GF(Korea)	4	SA
3	DB64-01565B	GRILLE AIR INLET	HF ABS(Korea)	1	SA
4	DB63-01491A	FILTER AIR	P.P(BLK)+40%	1	SNA
5	DB64-01566B	KNOB SLIDE A	HF ABS(Korea)	1	SA
6	DB64-01567B	KNOB SLIDE B	HF ABS(Korea)	1	SA
7	DB61-02714A	SPRING KNOB	STS304,T0.5	2	SNA
8	DB63-01483A	COVER KNOB	HIPS	2	SNA
9	DB63-01484B	CORNER COVER	HF ABS(Korea)	3	SA
10	DB63-01485B	CORNER COVER PCB	HF ABS(Korea)	1	SA
11	DB63-01500A	COVER PCB	HIPS	1	SNA
12	DB66-01103A	LINK MOTOR A	POM	1	SNA
13	DB66-01104A	LINK MOTOR B	POM	1	SNA
14	DB61-02711A	HOLDER LINK BLADE	ABS(BLK)	8	SNA
15	DB66-01105A	LINK BLADE	POM	7	SNA
16	DB66-01106A	LINK UNIVERSAL JOINT	POM	2	SNA
17	DB66-01107A	JOINT UNIVERSAL	POM	5	SNA
18	DB63-01486A	COVER SIDE A	HIPS(BLK)	1	SNA
19	DB63-01487A	COVER SIDE B	HIPS(BLK)	1	SNA
20	DB63-01488A	COVER SIDE C	HIPS(BLK)	1	SNA
21	DB63-01489A	COVER SIDE D	HIPS(BLK)	1	SNA
22	DB64-01558A	INLAY PCB	PC	1	SNA
23	DB64-01559A	BUTTON PCB	ABS	1	SNA
24	DB69-01419A	CUSHION IN	EPS,25	4	SNA
25	DB69-01420A	CUSHION OUT	EPS,25	4	SNA
26	DB61-02704A	BRACKET STEPPING MOTOR	SGCC-M,T1.0	2	SNA
27	DB61-02705A	PLATE HANGER	STS304,T0.5	2	SNA
28	DB93-04220A	ASS'Y PCB DISPLAY	ASS'Y	1	SNA

5-1-4 Global 4 way cassette type

■ Body(ND***4HxCB)



■ Parts List

No.	Code No.	Description	Specification	Q'TY				SA/SNA
				ND0524HXC	ND0724HXC ND1004HXC	ND1104HXC	ND1454HXC	
1	DB61-04515A	CASE-CABI IN	PP,T0.7,W836.4,L836.4	1	1	-	-	SNA
	DB61-04514A	CASE-CABI IN	PP,T0.7,W836.4,L836.4	-	-	1	-	SNA
	DB61-04468A	CASE-CABI IN	PP,T0.7,W836.4,L836.4	-	-	-	1	SNA
2	DB61-04495A	PLATE-HANGER	GI-SGCC, T0.6	4	4	4	4	SA
3	DB63-02710A	CUSHION-CABI IN	EPS,T10,W832.6,L832.6	1	1	-	-	SNA
	DB63-02709A	CUSHION-CABI IN	EPS,T10,W832.6,L832.6	-	-	1	-	SNA
	DB63-02694A	CUSHION-CABI IN	EPS,T10,W832.6,L832.6	-	-	-	1	SNA
4	DB90-05821A	ASS'Y BRACKET MOTOR	ASS'Y	1	1	1	1	SNA
5	DB90-05829A	ASS'Y COVER-PIPE	ASS'Y	1	1	1	1	SNA
6	DB94-03171A	ASS'Y DRAIN-SOCKET	ASS'Y	1	1	-	-	SA
	DB94-02693A	ASS'Y DRAIN-SOCKET	ASS'Y	-	-	1	1	SA
7	DB61-04491A	PLATE-COVER CONTROL	GI-SGCC, T0.5	1	1	1	1	SNA
8	DB93-12266A	ASS'Y PCB MAIN-IN	ASS'Y	1	1	1	1	SA
9	DB93-10648A	ASS'Y CONTROL IN	ASS'Y	1	1	1	1	SNA
9-1	DB95-04459A	ASS'Y THERMISTOR IN-ROOM	ASS'Y	1	1	1	1	SA
10	DB61-04496A	CASE-BELL MOUTH	HIPS,T0.2,448.5,499	1	1	1	1	SA
11	DB63-02702B	COVER-SAFETY	ABS,T3.0,414,379	1	1	1	1	SA
12	DB94-02667C	ASS'Y DRAIN PAN	ASS'Y	1	1	1	1	SA
13	DB61-04498A	CASE-PUMP	HIPS,T0.2,139,98.6	1	1	1	1	SNA
14	DB63-02703A	COVER-PUMP	HIPS,T0.2,81.2,57.9	1	1	1	1	SA
15	DB67-00982C	DRAIN-PUMP	ASS'Y	1	1	1	1	SA
16	DB73-00521A	RUBBER-CAP PUMP	EPDM	1	1	1	1	SA
17	DB73-00523A	RUBBER-BASE PUMP	NBR	1	1	1	1	SA
18	DB95-04462A	ASS'Y SENSOR FLOAT	ASS'Y	1	1	1	1	SA
19	DB31-00578A	MOTOR FAN	FMC6531SSF	-	-	1	-	SA
	DB31-00578B	MOTOR FAN	FMC6531SSH	1	1	-	-	SA
	DB31-00577A	MOTOR FAN	DAI33585ZLB/SEC	-	-	-	1	SA
20	DB94-03093A	ASS'Y FAN-TURBO	ASS'Y	1	1	-	-	SA
	DB94-02718A	ASS'Y FAN-TURBO	ASS'Y	-	-	1	-	SA
	DB94-02663A	ASS'Y FAN-TURBO	ASS'Y	-	-	-	1	SA
21	DB60-00406A	FASTENER-NUT FLANGE	NSWR3,M6	1	1	1	1	SA
22	DB61-04517A	CASE-PARTITION EVAP	ABS,T2.0	1	1	-	-	SNA
	DB61-04516A	CASE-PARTITION EVAP	ABS,T2.0	-	-	1	-	SNA
	DB61-04511A	CASE-PARTITION EVAP	ABS,T2.0	-	-	-	1	SNA
23	DB61-04518A	HOLDER-EVAP	STS430,T0.6	2	2	-	-	SNA
	DB61-04519A	HOLDER-EVAP	STS430,T0.6	-	-	2	-	SNA
	DB61-02669B	HOLDER-EVAP	STS430,T0.6	-	-	-	2	SNA
24	DB96-15994A	ASS'Y TUBE EVAP IN	ASS'Y	-	1	-	-	SNA
	DB96-15994B	ASS'Y TUBE EVAP IN	ASS'Y	1	-	-	-	SNA
	DB96-15995A	ASS'Y TUBE EVAP IN	ASS'Y	-	-	1	-	SNA
	DB96-15996A	ASS'Y TUBE EVAP IN	ASS'Y	-	-	-	1	SNA

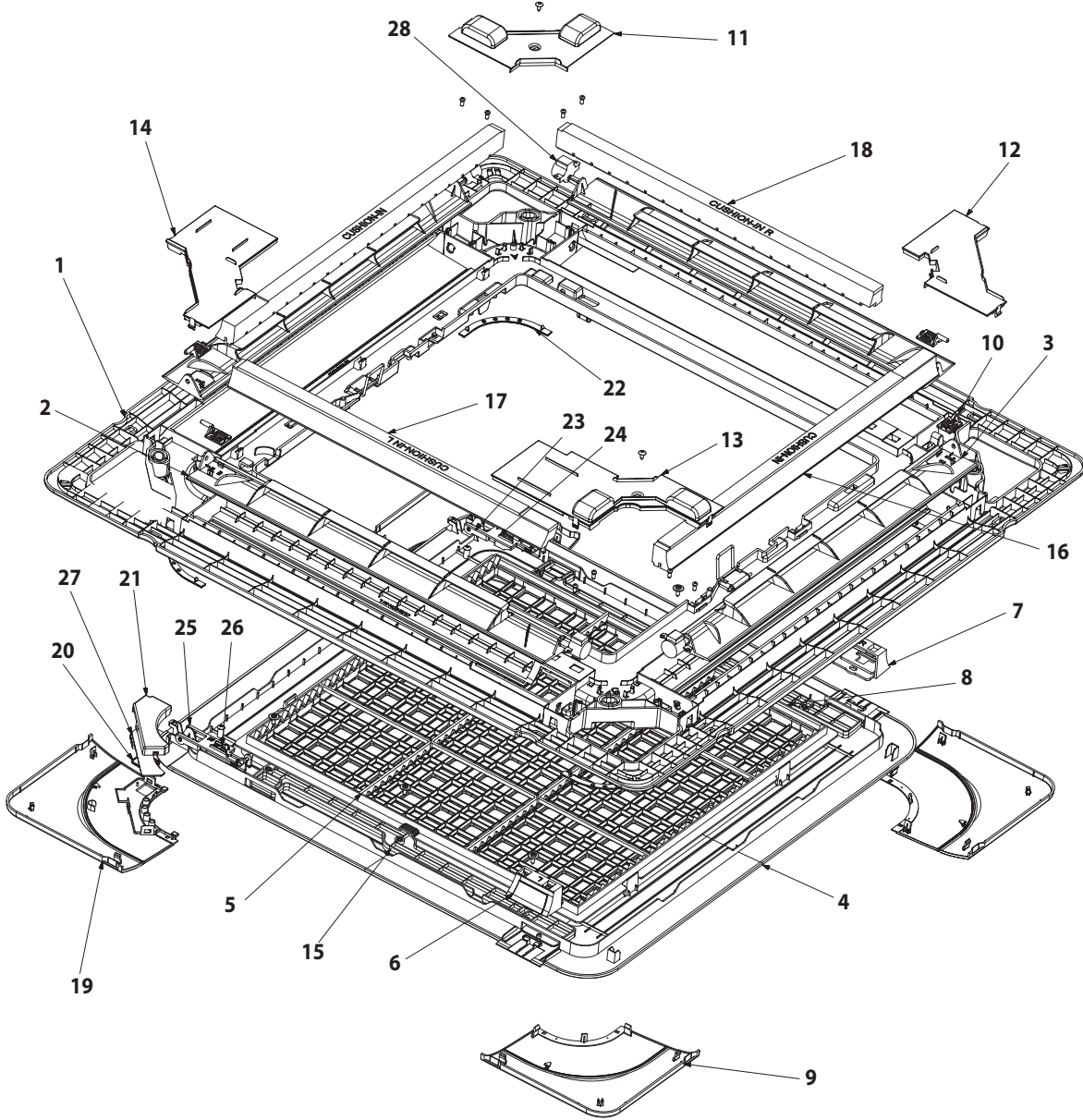
■ Parts List

No.	Code No.	Description	Specification	Q'TY				SA/SNA
				ND0524HXCB	ND0724HXCB ND1004HXCB	ND1104HXCB	ND1454HXCB	
25	DB62-16062A	ASS'Y COLLECTOR	ASS'Y	-	1	-	-	SNA
	DB62-16062B	ASS'Y COLLECTOR	ASS'Y	1	-	-	-	SNA
	DB96-16061A	ASS'Y COLLECTOR	ASS'Y	-	-	1	-	SNA
	DB96-14726B	ASS'Y COLLECTOR	ASS'Y	-	-	-	1	SNA
26	DB96-16063A	ASS'Y EVAP UNIT	ASS'Y	-	1	-	-	SA
	DB96-16063B	ASS'Y EVAP UNIT	ASS'Y	1	-	-	-	SA
	DB96-15439B	ASS'Y EVAP UNIT	ASS'Y	-	-	1	-	SA
	DB96-14909B	ASS'Y EVAP UNIT	ASS'Y	-	-	-	1	SA
27	DB95-04461A	ASS'Y THERMISTOR IN-EVA IN OUT	ASS'Y	1	1	1	1	SA

MEMO

Global 4way cassette type (cont.)

■ Panel(ND***4HXCБ)

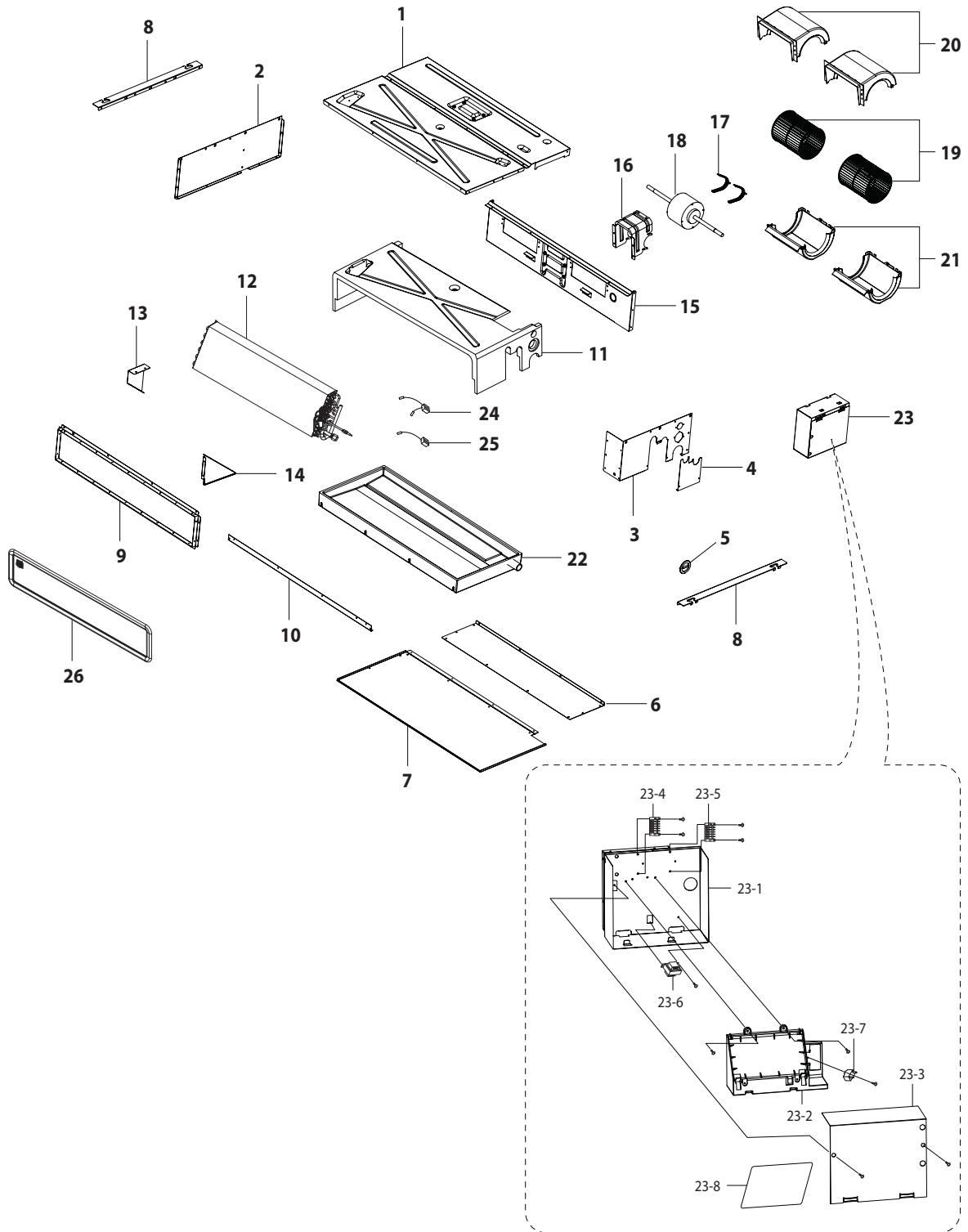


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB64-02538A	PANEL-BASE	HIPS(VICTORY GRAY)	1	SA
2	DB66-01545A	BLADE A	ABS(VICTORY GRAY)	2	SA
3	DB66-01546A	BLADE B	ABS(VICTORY GRAY)	2	SA
4	DB64-02539A	PANEL-GRILL	HIPS(VICTORY GRAY)	1	SA
5	DB63-02739A	FILTER	ABS(INNER GRAY)	1	SA
6	DB66-01542A	LEVER-CLAMP L	HIPS(VICTORY GRAY)	1	SA
7	DB66-01543A	LEVER-CLAMP R	HIPS(VICTORY GRAY)	1	SA
8	DB61-04689A	SPRING ETC-KNOB	STS304	2	SA
9	DB63-02732A	COVER-CORNER	HIPS(VICTORY GRAY)	3	SA
10	DB61-04544A	HOLDER-BLADE	POM(WHT)	4	SA
11	DB63-02734A	COVER-BACK A	HIPS(BLK)	1	SNA
12	DB63-02735A	COVER-BACK B	HIPS(BLK)	1	SNA
13	DB63-02736A	COVER-BACK C	HIPS(BLK)	1	SNA
14	DB63-02737A	COVER-BACK D	HIPS(BLK)	1	SNA
15	DB66-01544A	LINK-CLAMP	HIPS(VICTORY GRAY)	2	SA
16	DB63-02740A	CUSHION-IN	EPS,25	2	SNA
17	DB63-02741A	CUSHION-IN L	EPS,25	1	SNA
18	DB63-02742A	CUSHION-IN R	EPS,25	1	SNA
19	DB63-02744A	COVER-DISPLAY	HIPS(VICTORY GRAY)	1	SA
20	DB64-02542A	WINDOW-SENSOR	PC(WAFFLE MILKY)	1	SA
21	DB63-02738A	COVER-PBA	PP(NTR)	1	SA
22	DB64-02541A	WINDOW-LED	PC(WAFFLE FLOCKING GRAY)	4	SA
23	DB66-01412A	LINK-HINGE A	POM(WHT)	1	SA
24	DB66-01419A	LINK-SWITCH A	ABS(GREEN)	1	SA
25	DB66-01410A	LINK-HINGE B	POM(WHT)	1	SA
26	DB66-01420A	LINK-SWITCH B	ABS(GREEN)	1	SA
27	DB93-10649A	ASS'Y PCB PANEL DISPLAY	ASS'Y	1	SA
28	DB31-00371B	MOTOR STEP	ASS'Y	4	SA

5-1-5 Duct type(Slim I)

■ AVXDSH020/032/040C*, ND020/032/040LH***

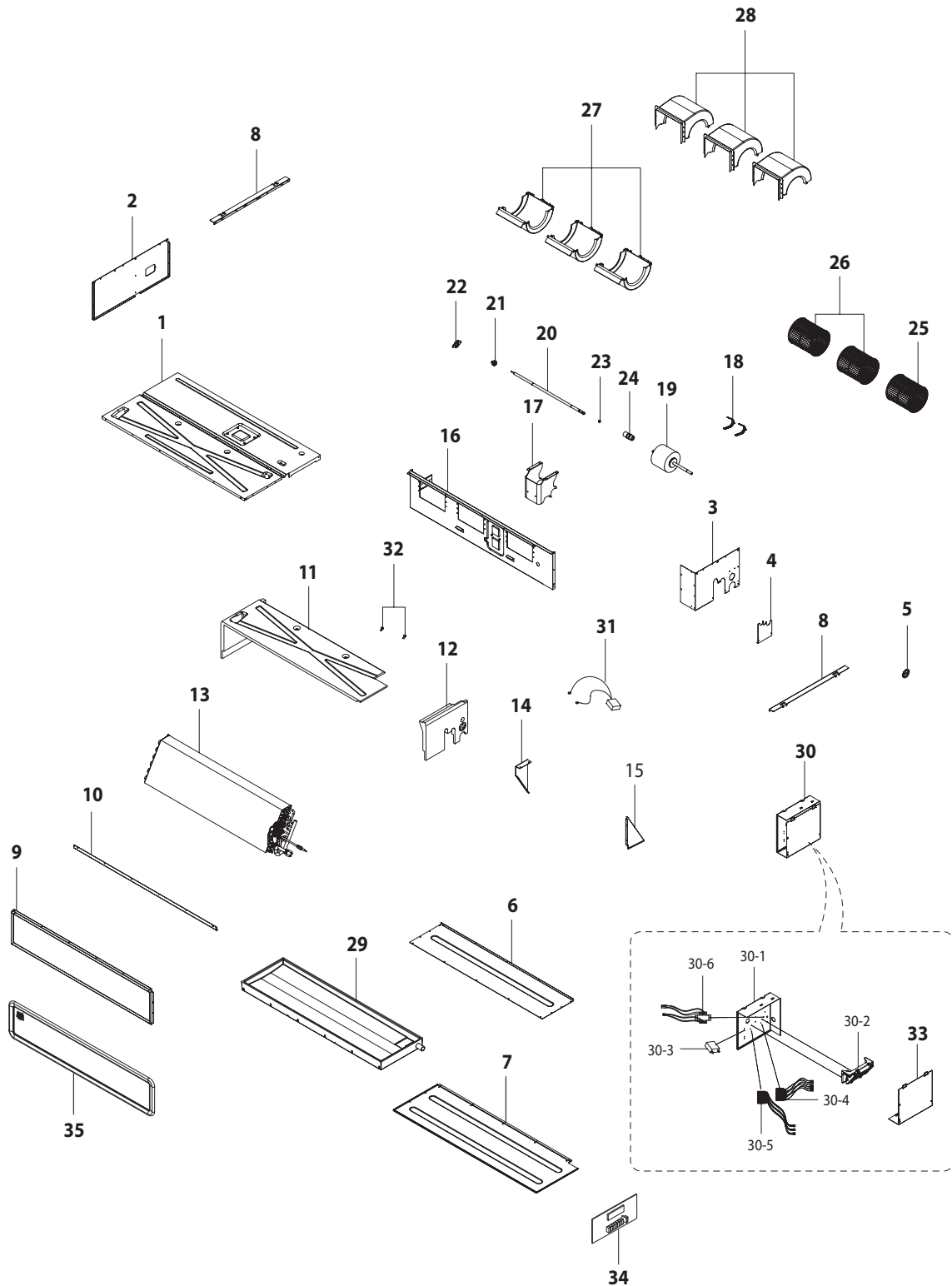


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB90-02014A	ASS'Y CABI BASE	ASS'Y	1	SA
2	DB90-03262A	ASS'Y CABI SIDE LF	ASS'Y	1	SA
3	DB90-01951A	ASS'Y CABI SIDE RH	ASS'Y	1	SA
4	DB90-01938A	ASS'Y COVER PIPE	ASS'Y	1	SA
5	DB90-01950A	ASS'Y COVER DRAIN PUMP	ABS T2.0	1	SA
6	DB64-01326A	CABI TOP MOTOR	SGCC-M, T0.8	1	SA
7	DB90-02069D	ASS'Y CABI TOP EVAP	ASS'Y	1	SA
8	DB61-02274A	PLATE HANGER	SGCC-M, T2.0	1	SA
9	DB94-00712A	ASS'Y BRACKET OUTLET	ASS'Y	2	SA
10	DB61-02277A	BRACKET OUTLET SUB	SGCC-M, T0.8	1	SA
11	DB97-03791A	ASS'Y CUSHION BASE	ASS'Y	1	SNA
12	DB96-05330C	ASS'Y EVAP UNIT	ASS'Y	1	SA
13	DB90-01978A	ASS'Y SUPPORT EVAP LF	ASS'Y	1	SA
14	DB90-01946A	ASS'Y SUPPORT EVAP RH	ASS'Y	1	SA
15	DB94-00768A	ASS'Y PARTITION	ASS'Y	1	SA
16	DB61-02282A	BRACKET MOTOR	SGCC-M T2.0	1	SA
17	DB99-00669A	BAND MOTOR	SINYA	4	SA
18	DB31-00312A	MOTOR	SINYA, SSR, PID	1	SA
19	DB67-00565A	BLOWER	ASS'Y, ABS, TORSIONAL BUSH	2	SA
20	DB90-01947A	ASS'Y CASE BLOWER UPPER	ASS'Y	2	SA
21	DB90-01948A	ASS'Y CASE BLOWER BOTTOM	ASS'Y	2	SA
22	DB94-01007B	ASS'Y DRAIN PAN	ASS'Y	1	SNA
23	DB93-05576F	ASS'Y CONTROL IN	ASS'Y	1	SA
23-1	DB90-01941B	ASS'Y CASE CONTROL	ASS'Y	1	SA
23-2	DB61-02287B	CASE PCB	5VA	1	SA
23-3	DB63-01237A	COVER CONTROL	SGCC-M T0.5	1	SA
23-4	DB65-00105L	TERMINAL BLOCK 6P	6P, POWER	1	SNA
23-5	DB65-00105M	TERMINAL BLOCK 6P	6P, COMMUNICATION	1	SNA
23-6	DB26-00080A	TRANS POWER	230V, 50HZ	1	SA
23-7	2301-001370	CAPACITOR	450V 1.5μF	1	SA
23-8	DB93-08296A	ASS'Y PCB MAIN	ASS'Y	1	SA
24	DB32-00142A	ASS'Y THERMISTOR	ASS'Y	1	SA
25	DB32-00141A	THERMISTOR EVAP	ASS'Y	1	SA
26	DB63-01299E	ASS'Y FILTER	ASS'Y	1	SA

5-1-6 Duct type(Slim II)

■ AVXDSH052/070C*, ND052/072LH***

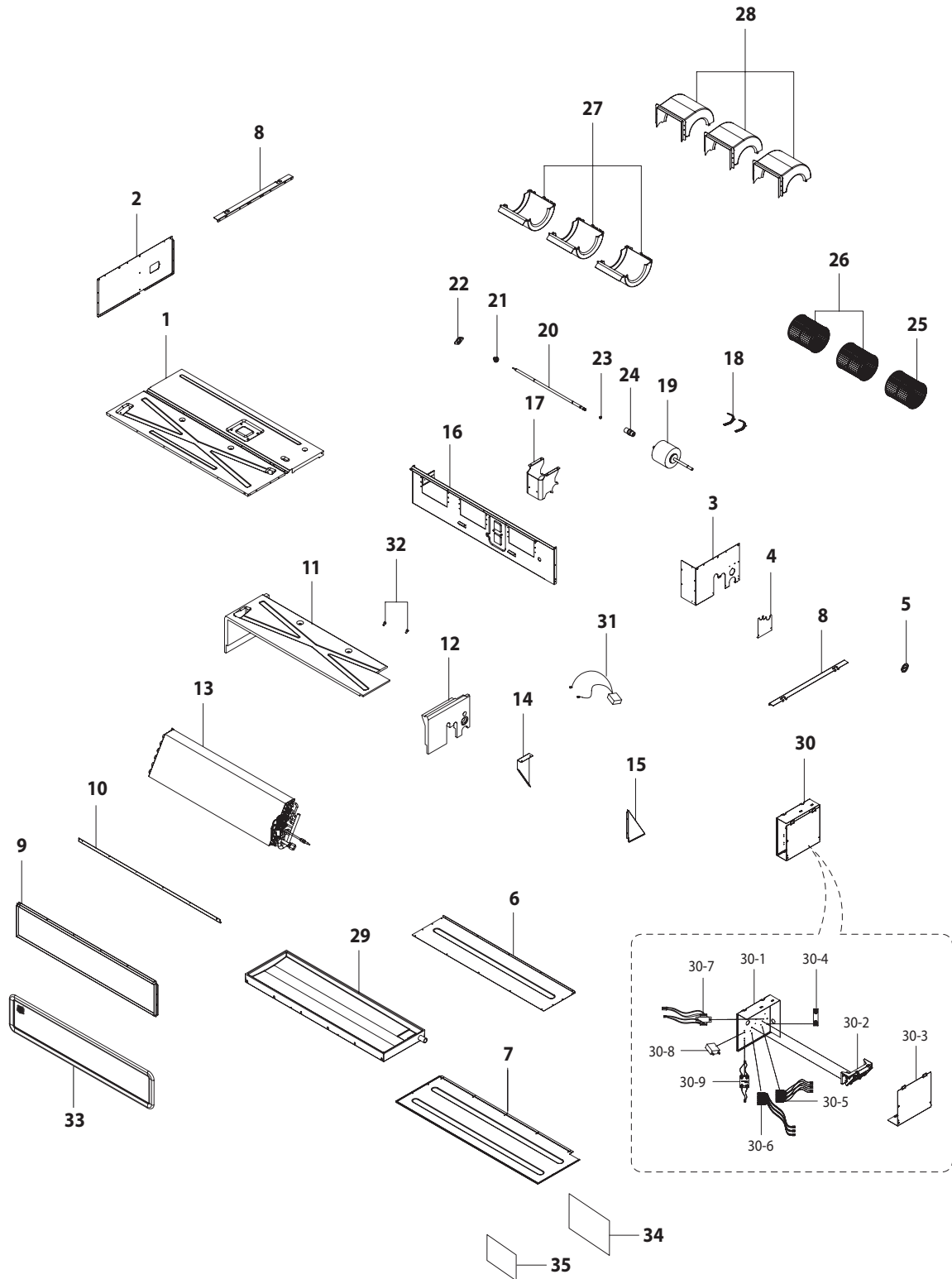


■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				AVXDSH052C* ND052LH***	AVXDSH070C* ND072LH***	
1	DB90-02160A	ASS'Y CABI BASE	SGCC-M,T0.8	1	1	SA
2	DB90-03262A	ASS'Y CABI SIDE LF	SGCC-M,T0.8	1	1	SA
3	DB90-01951A	ASS'Y CABI SIDE RH	SGCC-M,T0.8	1	1	SA
4	DB90-01938A	ASS'Y COVER PIPE	SGCC-M,T0.5	1	1	SA
5	DB90-01950A	ASS'Y COVER DRAIN PUMP	SLIM DUCT	1	1	SA
6	DB64-01325A	CABI TOP MOTOR	SGCC-M,T0.8	1	1	SA
7	DB90-02161B	ASS'Y CABI TOP EVAP	SGCC-M,T0.8	1	1	SA
8	DB61-02274A	PLATE HANGER	SGCC-M,T2.0	2	2	SA
9	DB97-03796A	ASS'Y BRACKET OUTLET	SGCC-M,T0.8	1	1	SA
10	DB61-02322A	BRACKET OUTLET SUB	SGCC-M,T0.8	1	1	SA
11	DB97-03792A	ASS'Y CUSHION BASE A	EPS 25	1	1	SNA
12	DB97-03791A	ASS'Y CUSHION BASE B	EPS 25	1	1	SNA
13	DB96-05785B	ASS'Y EVAP UNIT	ASS'Y	1	-	SA
	DB96-05785A	ASS'Y EVAP UNIT	ASS'Y	-	1	SA
14	DB90-01978A	ASS'Y SUPPORT EVAP LF	SGCC-M,T0.8	1	1	SA
15	DB90-01946A	ASS'Y SUPPORT EVAP RH	SGCC-M,T0.8	1	1	SA
16	DB94-00809A	ASS'Y PARTITION	SGCC-M,T1.0	1	1	SA
17	DB61-02282A	BRACKET MOTOR	SGCC-M,T2.0	1	1	SA
18	DB97-03800A	BAND MOTOR	SINYA	1	1	SA
19	DB31-00314C	MOTOR	SINYA,60Hz	1	1	SA
20	DB66-01007A	MOTOR SHAFT	SINYA	1	1	SNA
21	DB94-00759A	MOLD BEARING	ASS'Y	1	1	SA
22	DB67-00581A	CAP BEARING	SGCC-M,T0.8	1	1	SNA
23	DB73-00285A	RUBBER SHAFT	CR V0	1	1	SNA
24	DB96-04902A	COUPLER	ASS'Y	1	1	SA
25	DB67-00565A	BLOWER A	ASS'Y,ABS	1	1	SA
26	DB67-00576A	BLOWER B	ASS'Y,ABS	2	2	SA
27	DB90-01947A	ASS'Y CASE BLOWER UPPER	ASS'Y,ABS	3	3	SA
28	DB90-01948A	ASS'Y CASE BLOWER BOTTOM	ASS'Y,ABS	3	3	SA
29	DB94-01007A	ASS'Y DRAIN	ASS'Y	1	1	SNA
30	DB93-03321E	ASS'Y CONTROL PART	ASS'Y	1	1	SA
30-1	DB90-01941A	ASS'Y CASE CONTROL	ASS'Y	1	1	SA
30-2	DB61-02287B	CASE PCB	5VA	1	1	SA
30-3	2301-001379	CAPACITOR	450V,4uF	1	1	SA
30-4	DB65-00105L	TERMINAL BLOCK 6P	6P,POWER	1	1	SNA
30-5	DB65-00105M	TERMINAL BLOCK 6P	6P,COMMUNICATION	1	1	SNA
30-6	DB26-10070G	TRANS POWER	60Hz	1	1	SNA
31	DB32-00142A	ASS'Y THERMISTOR	ASS'Y	1	1	SA
32	DB61-02349A	CLIP BRUSH	NYLON66,BLACK	2	2	SNA
33	DB90-02101A	ASS'Y COVER CONTROL	ASS'Y	1	1	SA
34	DB93-08296A	ASS'Y PCB	ASS'Y	1	1	SA
35	DB63-01299C	FILTER	ASS'Y	1	1	SA

5-1-7 Duct type(Slim III)

■ AVXDSH100/110/145C*, ND100/110/145LH***

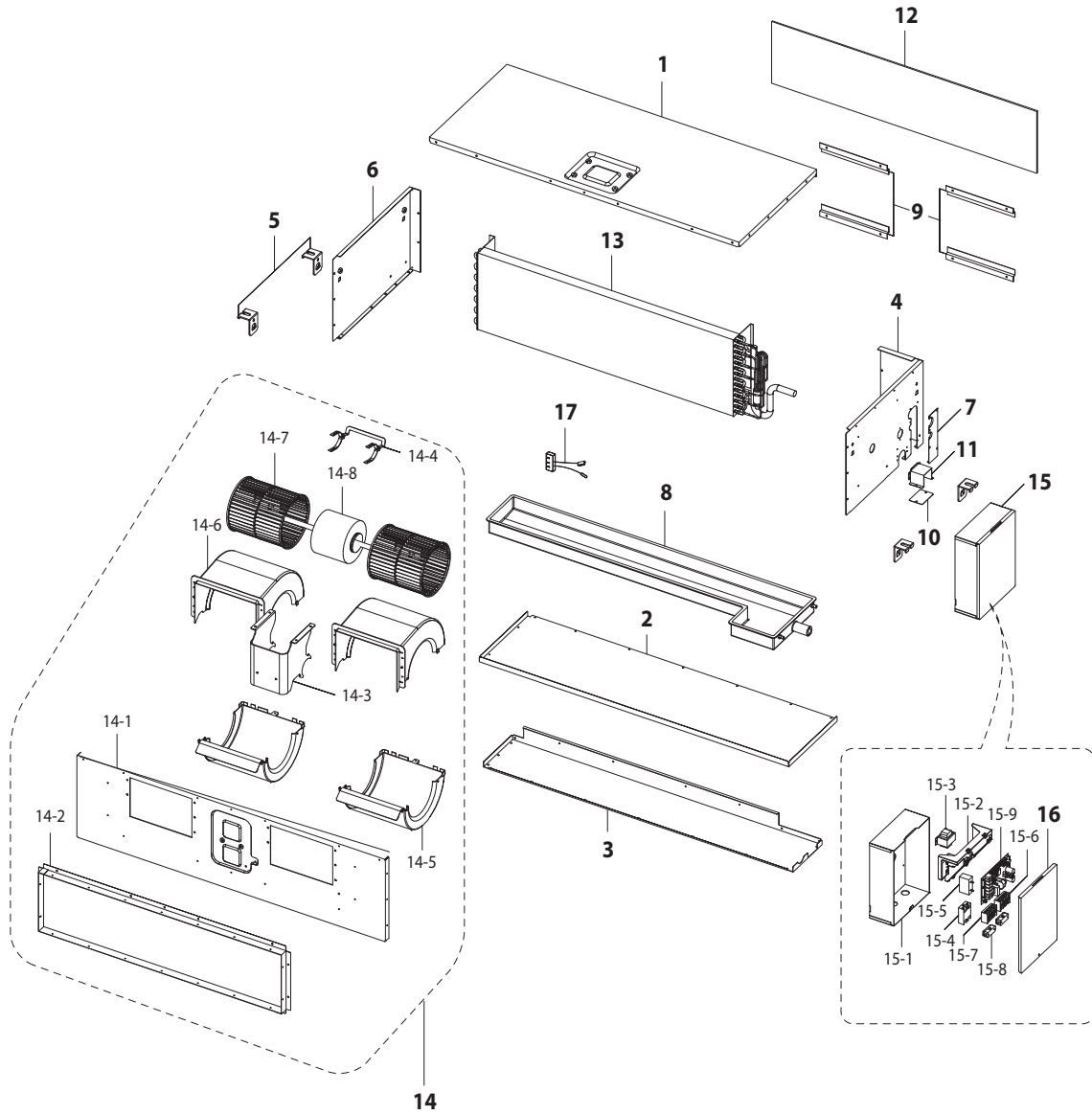


■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				AVXDSH100C* AVXDSH110C* ND100LH*** ND110LH***	AVXDSH145C* ND145LH***	
1	DB90-02088A	ASS'Y CABI BASE	SGCC-M,T0.8	1	1	SA
2	DB90-03249A	ASS'Y CABI SIDE LF	SGCC-M,T0.8	1	1	SA
3	DB90-02087A	ASS'Y CABI SIDE RH	SGCC-M,T0.8	1	1	SA
4	DB90-01938A	ASS'Y COVER PIPE	SGCC-M,T0.5	1	1	SA
5	DB90-01950A	ASS'Y COVER DRAIN PUMP	SLIM DUCT	1	1	SA
6	DB64-01351A	CABI TOP MOTOR	SGCC-M,T0.8	1	1	SA
7	DB90-03248A	ASS'Y CABI TOP EVAP	SGCC-M,T0.8	1	1	SA
8	DB61-02323A	PLATE HANGER	SGCC-M,T2.0	1	1	SA
9	DB90-02055A	ASS'Y BRACKET OUTLET	SGCC-M,T0.8	2	2	SA
10	DB61-02326A	BRACKET OUTLET SUB	SGCC-M,T0.8	1	1	SA
11	DB97-03748A	ASS'Y CUSHION BASE	ASS'Y	1	1	SA
12	DB97-03749A	ASS'Y CUSHION BASE RH	ASS'Y	1	1	SA
13	DB96-05867A	ASS'Y EVAP UNIT	ASS'Y	1	-	SA
	DB96-05868A	ASS'Y EVAP UNIT	ASS'Y	-	1	SA
14	DB97-03747A	ASS'Y SUPPORT EVAP LF	ASS'Y	1	1	SA
15	DB97-03746A	ASS'Y SUPPORT EVAP RH	ASS'Y	1	1	SA
16	DB94-00785A	ASS'Y PARTITION	ASS'Y	1	1	SA
17	DB61-02331A	BRACKET MOTOR	SGCC-M,T2.5	1	1	SA
18	DB97-03751A	BAND MOTOR	SINYA	1	1	SA
19	DB31-00427A	MOTOR	SINYA,SSR	1	1	SA
20	DB81-00617A	MOTOR SHAFT	SINYA	1	1	SA
21	DB94-00759A	MOLD BEARING	ASS'Y	1	1	SA
22	DB67-00581A	CAP BEARING	SGCC-M,T0.8	1	1	SA
23	DB73-00285A	RUBBER SHAFT	CR V0	1	1	SA
24	DB96-04902A	COUPLER	ASS'Y	1	1	SA
25	DB67-00583A	BLOWER A	ASS'Y	1	1	SA
26	DB67-00583B	BLOWER B	ASS'Y	2	2	SA
27	DB90-02085A	ASS'Y CASE BLOWER UPPER	ASS'Y	3	3	SA
28	DB90-02084A	ASS'Y CASE BLOWER BOTTOM	ASS'Y	3	3	SA
29	DB94-01028A	ASS'Y DRAIN	ASS'Y	1	1	SA
30	DB93-04867B	ASS'Y CONTROL IN	ASS'Y	1	1	SA
30-1	DB90-02054A	ASS'Y CASE CONTROL	ASS'Y	1	1	SA
30-2	DB61-02287B	CASE PCB	5VA	1	1	SA
30-3	DB90-02101B	ASS'Y COVER CONTROL	ASS'Y	1	1	SA
30-4	DB61-40291A	HOLDER WIRE	PP BLACK	1	1	SA
30-5	DB65-00105L	TERMINAL BLOCK 6P	6P,POWER	1	1	SA
30-6	DB65-00105M	TERMINAL BLOCK 6P	6P,COMMUNICATION	1	1	SA
30-7	DB26-00080A	TRANS POWER	230V,50Hz	1	1	SA
30-8	DB61-03122A	CASE BLDC	ABS(UL94-V5),BLK	1	1	SA
31	DB32-00142A	ASS'Y THERMISTOR	ASS'Y	1	1	SA
32	DB61-02349A	CLIP BRUSH	NYLON66,BLACK	2	2	SA
33	DB63-01299C	FILTER	ASS'Y	1	1	SA
35	DB93-08296C	ASS'Y PCB MAIN	ASS'Y	1	1	SA
34	DB93-04959A	ASS'Y PCB SUB-BLDC	ASS'Y	1	1	SA

5-1-8 Duct type(MSP)

■ AVXDUH100/110C*, ND100/110SH***

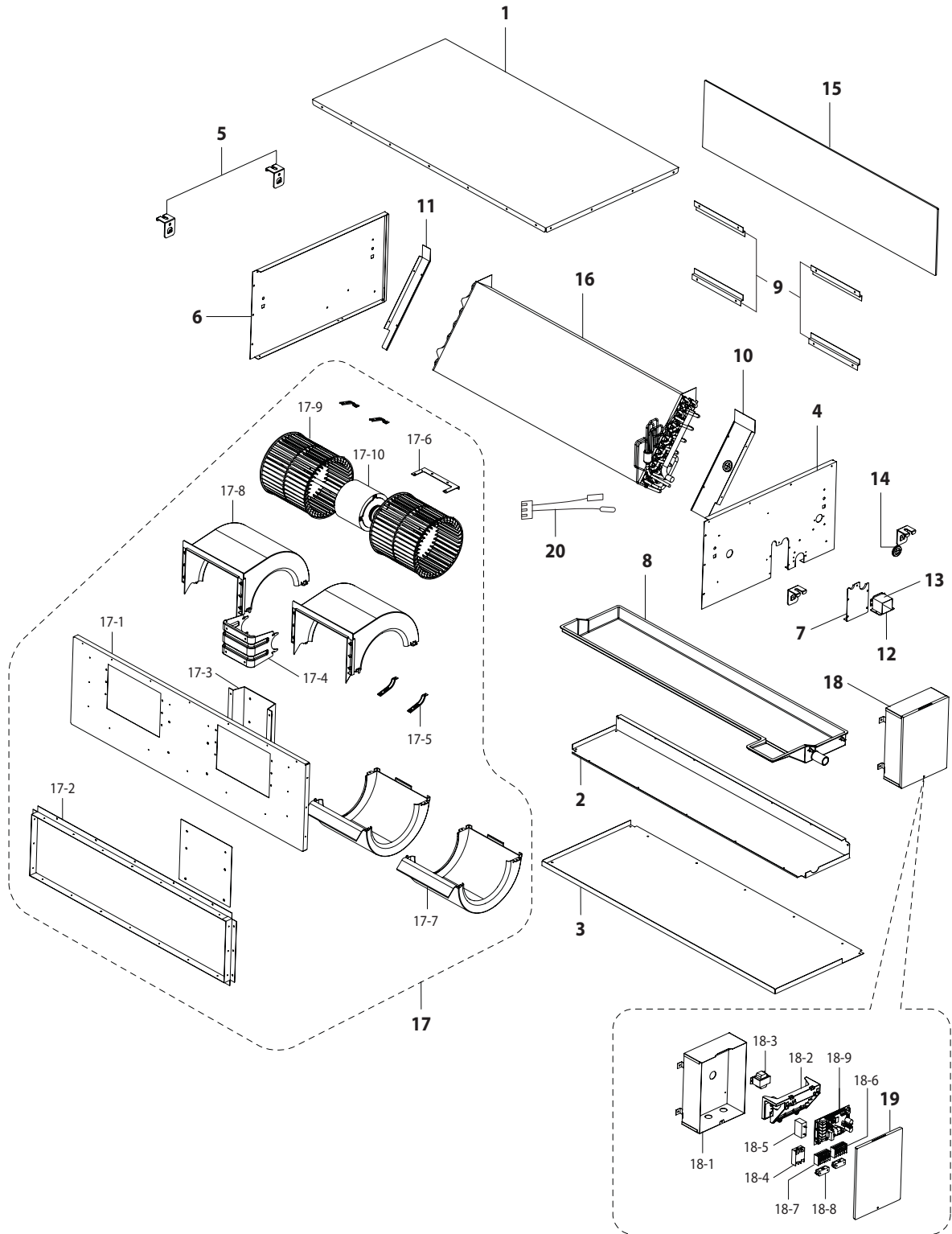


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB90-03109A	ASS'Y CABI BASE	ASS'Y,SGCC-M,T1.0	1	SA
2	DB90-02409A	ASS'Y CABI BOTTOM DRAIN	ASS'Y,SGCC-M,T1.0	1	SA
3	DB90-03110A	ASS'Y CABI BOTTOM BLOWER	ASS'Y,SGCC-M,T1.0	1	SA
4	DB90-02406A	ASS'Y CABI SIDE RH	ASS'Y,SGCC-M,T1.0	1	SA
5	DB61-01282A	HOLDER SIDE CABI	SGCC-M,T3.0	4	SNA
6	DB90-02407A	ASS'Y CABI SIDE LF	ASS'Y,SGCC-M,T1.0	1	SA
7	DB90-02404A	ASS'Y COVER PIPE	ASS'Y,SGCC-M,T1.0	1	SA
8	DB91-00346A	ASS'Y DRAIN PAN	ASS'Y,SGCC-M,T1.0	1	SA
9	DB61-02374A	BRACKET FILTER	SGCC-M,T1.0	4	SNA
10	DB61-02326A	COVER HOLDER	SGCC-M,T1.0	1	SNA
11	DB61-02378A	HOLDER PIPE	SGCC-M,T1.0	1	SNA
12	DB63-01299B	FILTER PRE	ASS'Y	1	SA
13	DB96-07234A	ASS'Y EVAP UNIT	3R14C WAVE 1.3 OD7	1	SA
14	DB94-01691A	ASS'Y BLOWER	ASS'Y	1	SNA
14-1	DB90-02402A	ASS'Y CABI FRONT	ASS'Y,SGCC-M,T1.5	1	SNA
14-2	DB90-02408A	ASS'Y BRACKET OUTLET PART	ASS'Y,SGCC-M,T1.0	1	SA
14-3	DB61-02331A	BRACKET MOTOR	ASS'Y,SGCC-M,T2.5	1	SNA
14-4	DB72-03751A	BAND MOTOR	ASS'Y,SGCC-M,T1.6	4	SA
14-5	DB61-02333A	CASE FAN LOW	ASS'Y,ABS/GF10,T3.0	2	SA
14-6	DB61-02332A	CASE FAN UP	ASS'Y,ABS/GF10,T3.0	2	SA
14-7	DB67-00583B	BLOWER	ASS'Y,ABS/GF10,OD230	2	SA
14-8	DB31-00355B	MOTOR FAN	YSK140-200-4A	1	SA
15	DB93-05578B	ASS'Y CONTROL IN	ASS'Y	1	SA
15-1	DB90-01992A	ASS'Y CASE CONTROL	ASS'Y,SGCC-MT1.0	1	SNA
15-2	DB61-02287B	CASE PCB	5VA	1	SA
15-3	DB26-10070G	TRANS POWER	DC17V	1	SNA
15-4	3502-001027	SSR	OMRON G3NA-210BPL	1	SNA
15-5	2301-001381	C-FILM, LEAD-OTHER	8uF,450VAC	1	SA
15-6	DB65-00105M	TERMINAL BLOCK 6P	250V,20A	1	SNA
15-7	DB65-00105L	TERMINAL BLOCK 6P	250V,20A	1	SNA
15-8	DB61-00250A	HOLDER-WIRE CLAMP	NYLON	2	SNA
15-9	DB93-08296B	ASS'Y PCB MAIN	ASS'Y	1	SA
16	DB63-01296A	ASS'Y COVER CONTROL	ASS'Y	1	SA
17	DB32-00142B	THERMISTOR -ASS'Y	103AT,103FW	1	SA

Duct type(MSP)(cont.)

■ AVXDUH145C*, ND145SH***

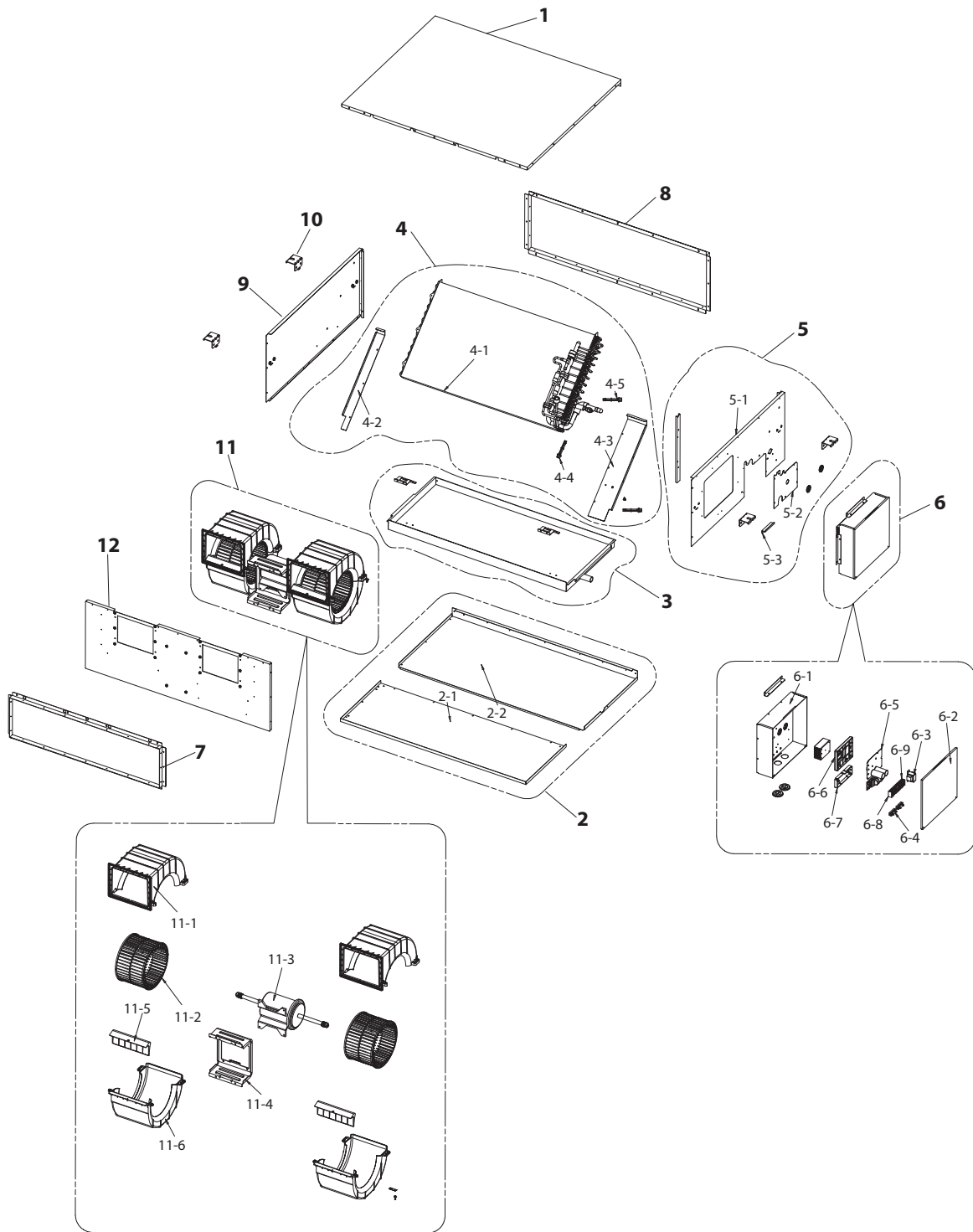


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB90-02083A	ASS'Y CABI BASE	ASS'Y,SGCC-M,T1.0	1	SA
2	DB90-02007A	ASS'Y CABI BOTTOM DRAIN	ASS'Y,SGCC-M,T1.0	1	SA
3	DB90-02008A	ASS'Y CABI BOTTOM BLOWER	ASS'Y,SGCC-M,T1.0	1	SA
4	DB90-02009A	ASS'Y CABI SIDE RH	ASS'Y,SGCC-M,T1.0	1	SA
5	DB61-01282A	HOLDER SIDE CABI	SGCC-M,T3.0	4	SNA
6	DB90-02010A	ASS'Y CABI SIDE LF	ASS'Y,SGCC-M,T1.0	1	SA
7	DB90-02011A	ASS'Y COVER PIPE	ASS'Y,SGCC-M,T1.0	1	SA
8	DB91-00317A	ASS'Y DRAIN PAN	ASS'Y,ABS/GF10 T3.0	1	SA
9	DB61-02374A	BRACKET FILTER	SGCC-M,T1.0	4	SNA
10	DB61-02380A	BRACKET EVAP RH	SGCC-M,T1.5	1	SA
11	DB61-02379A	BRACKET EVAP LF	SGCC-M,T1.5	1	SA
12	DB63-01297A	COVER HOLDER	SGCC-M,T1.0	1	SNA
13	DB61-02378A	HOLDER PIPE	SGCC-M,T1.0	1	SNA
14	DB73-00270A	RUBBER COVER WIRE	NBR	2	SNA
15	DB63-01299A	FILTER PRE	ASS'Y	1	SA
16	DB96-07235A	ASS'Y EVAP UNIT	3R14C WAVE 1.3 OD7	1	SA
17	DB94-01370A	ASS'Y BLOWER	ASS'Y	1	SNA
17-1	DB90-02028A	ASS'Y CABI FRONT	ASS'Y,SGCC-M,T1.5	1	SNA
17-2	DB90-02013A	ASS'Y BRACKET OUTLET PART	ASS'Y,SGCC-M,T1.0	1	SA
17-3	DB61-02372A	BASE MOTOR	ASS'Y,SGCC-M,T2.5	1	SNA
17-4	DB61-02375A	BRACKET MOTOR	ASS'Y,SGCC-M,T2.5	1	SNA
17-5	DB72-00710A	BAND MOTOR	ASS'Y,SGCC-MT1.6	4	SA
17-6	DB61-00540B	BRACKET MOTOR GUIDE	ASS'Y,SGCC-MT1.6	1	SNA
17-7	DB61-02382A	CASE FAN LOW	ASS'Y,ABS/GF10 T3.0	2	SA
17-8	DB61-02381A	CASE FAN UP	ASS'Y,ABS/GF10 T3.0	2	SA
17-9	DB67-00594A	BLOWER	ASS'Y,ABS/GF10 OD230	2	SA
17-10	DB31-00321D	MOTOR FAN	YDK-370S43223-01	1	SA
18	DB93-05578B	ASS'Y CONTROL IN	ASS'Y	1	SA
18-1	DB90-01992A	ASS'Y CASE CONTROL	ASS'Y,SGCC-MT1.0	1	SNA
18-2	DB61-02287B	CASE PCB	5VA	1	SA
18-3	DB26-10070G	TRANS POWER	DC17V	1	SNA
18-4	3502-001027	SSR	OMRON G3NA-210BPL	1	SNA
18-5	2301-001381	C-FILM, LEAD-OTHER	8uF,450VAC	1	SA
18-6	DB65-00105M	TERMINAL BLOCK 6P	250V,20A	1	SNA
18-7	DB65-00105L	TERMINAL BLOCK 6P	250V,20A	1	SNA
18-8	DB61-00250A	HOLDER-WIRE CLAMP	NYLON	2	SNA
18-9	DB93-08296B	ASS'Y PCB MAIN	ASS'Y	1	SA
19	DB63-01296A	ASS'Y COVER CONTROL	ASS'Y	1	SA
20	DB32-00142B	THERMISTOR -ASS'Y	103AT,103FW	1	SA

5-1-9 Duct type(BiG)

■ ND***HHXCA, ND***HHXCE

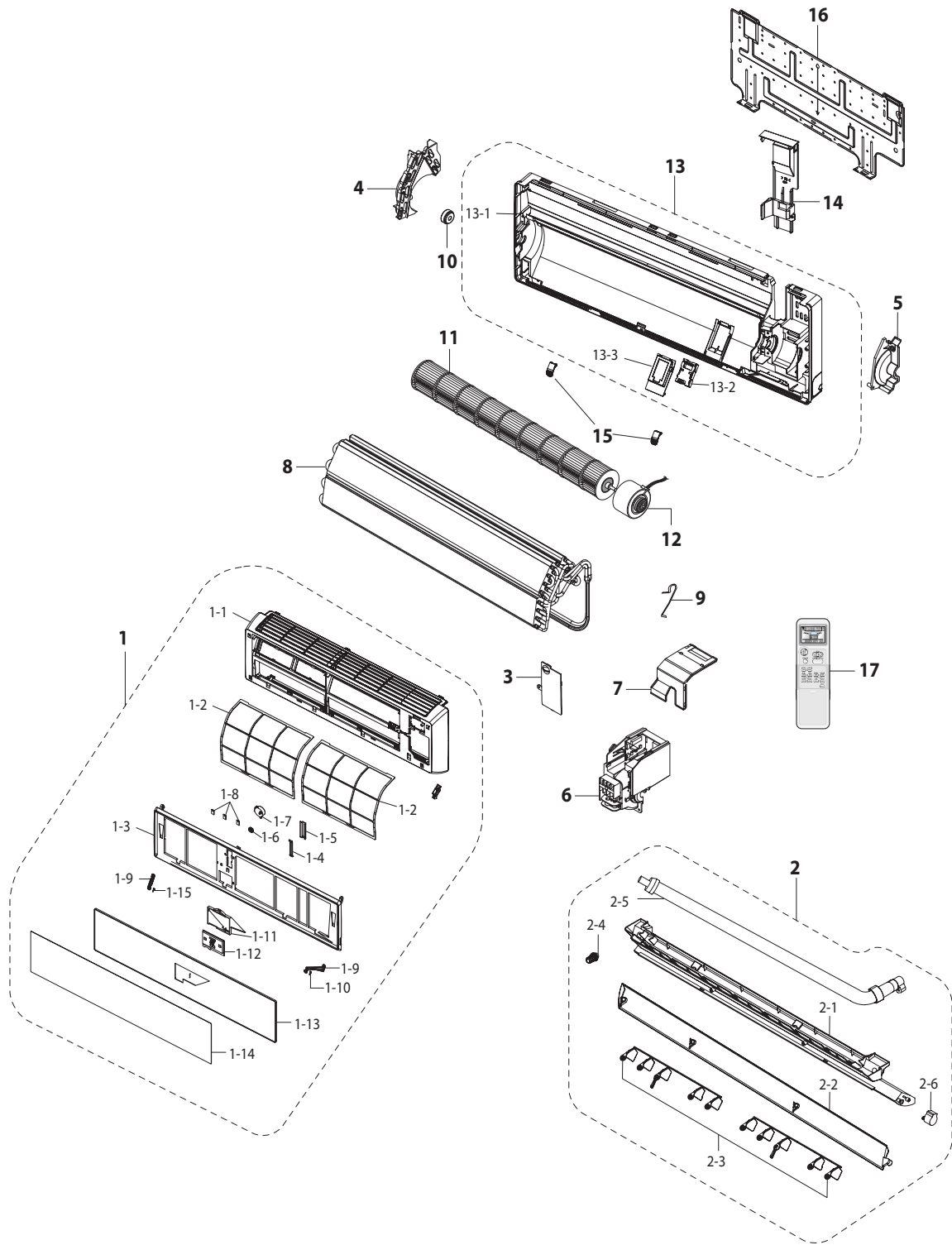


■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				ND220HHXCA ND220HHXCE	ND280HHXCA ND280HHXCE	
1	DB90-06462A	ASS'Y CABINET-TOP PART	SGCC	1	1	SNA
2	DB90-06459A	ASS'Y CABINET-BASE DRAIN PART		1	1	SNA
2-1	DB64-02756A	CABINET-BASE BLOWER	SGCC	1	1	SNA
2-2	DB64-02757A	CABNET-BASE DRAIN	SGCC	1	1	SNA
3	DB91-01247A	ASS'Y DRAIN PAN	SECC	1	1	SNA
4	DB96-15610B	ASS'Y EVAP PARTS	8HP	1		SNA
	DB96-15610A	ASS'Y EVAP PARTS	10HP		1	SNA
4-1	DB96-15733B	ASS'Y EVAP UNIT	8HP	1		SA
	DB96-15733A	ASS'Y EVAP UNIT	10HP		1	SA
4-2	DB61-04979A	BRACKET EVAP-LF	SECC	1	1	SNA
4-3	DB61-04981A	BRACKET EVAP-RH	SECC	1	1	SNA
4-4	DB95-01958D	ASS'Y THERMISTOR- EVA OUT		1	1	SA
4-5	DB95-04530A	ASS'Y THERMISTOR-ROOM EVA IN		1	1	SA
5	DB90-06460A	ASS'Y CABINET-SIDE RH PART		1	1	SNA
5-1	DB90-06419A	ASS'Y CABINET-SIDE RH	SGCC	1	1	SNA
5-2	DB63-03007A	COVER-PIPE	SGCC	1	1	SNA
5-3	DB61-04984A	BRACKET CONTROL-BASE	SGCC	1	1	SNA
6	DB93-11723C	ASS'Y CONTROL IN		1	1	SNA
6-1	DB90-06715A	ASS'Y CASE-CONTROL	SGCC	1	1	SNA
6-2	DB63-03004A	COVER-CONTROL	SGCC	1	1	SNA
6-3	DB26-00095A	TRANS POWER		1	1	SA
6-4	DB61-00250A	HOLDER WIRE		2	2	SNA
6-5	DB93-12676A	ASS'Y-BLDC DRIVER		1	1	SA
6-6	DB93-12654A	ASS'Y PCB MAIN IN		1	1	SA
6-7	DB93-12108A	ASS'Y PCB SUB EMI		1	1	SA
6-8	DB65-00179E	TERMINAL BLOCK		1	1	SA
6-9	DB65-00179F	TERMINAL BLOCK		1	1	SA
7	DB90-06422A	BRACKET INLET	SECC	1	1	SNA
8	DB90-06422A	BRACKET INLET	SECC	1	1	SNA
9	DB90-06461A	ASS'Y CABINET-SIDE LF PART	SGCC	1	1	SNA
10	DB61-04882A	BRACKET HINGE-SIDE CABI	SGCC	4	4	SNA
11	DB94-03142A	ASS'Y FAN IN PARTS		1	1	SNA
11-1	DB67-01123A	DUCT-BACK	HIPS	2	2	SNA
11-2	DB94-03168A	ASS'Y FAN-BLOWER	ABS+GF10	2	2	SNA
11-3	DB31-00593B	MOTOR FAN		1	1	SA
11-4	DB61-04881A	BASE MOTOR	SGCC	1	1	SNA
11-5	DB67-01124A	DUCT-OUT OFF	HIPS	2	2	SNA
11-6	DB67-01122A	DUCT-FRONT	HIPS	2	2	SNA
12	DB90-06417A	ASS'Y CABI FRONT PANEL	SGCC	1	1	SNA

5-1-10 Wall-mounted type(Vivace)

■ AVXWVH020/032/040/052/060C*, ND020/032/040/052/060VH***



■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				AVXWVH020C* AVXWVH032C* AVXWVH040C* ND020VH*** ND032VH*** ND040VH***	AVXWVH052C* AVXWVH060C* ND052VH*** ND060VH***	
1	DB92-01087D	ASS'Y PANEL FRONT	ASS'Y HALF MIRROR	1	-	SNA
	DB92-01086D	ASS'Y PANEL FRONT	ASS'Y HALF MIRROR	-	1	SNA
1-1	DB64-01633A	PANEL FRONT	HIPS,EMPIRE SILVER	1	-	SA
	DB64-01638A	PANEL FRONT	HIPS,EMPIRE SILVER	-	1	SA
1-2	DB63-01593A	FILTER-PRE	PP,GRAY	2	-	SA
	DB63-01594A	FILTER-PRE	PP,GRAY	-	2	SA
1-3	DB64-01634A	PANEL-MID	HIPS,EMPIRE SILVER	1	-	SA
	DB64-01639A	PANEL-MID	HIPS,EMPIRE SILVER	-	1	SA
1-4	DB66-01152A	LINK-GRILLE	POM,WHITE	1	1	SA
1-5	DB66-01156A	GEAR-RACK	POM,WHITE	1	1	SA
1-6	DB66-01155A	GEAR-PINION	POM,WHITE	1	1	SA
1-7	DB31-00369B	MOTOR STEP	ASS'Y	1	1	SA
1-8	6002-000588	SCREW-TAP	TH M4XL6	3	3	SNA
1-9	DB66-01176A	LINK-SUPPORT	POM,WHITE	4	4	SA
1-10	DB61-03139A	SPRING ETC-GRILLE	STS	1	1	SA
1-11	DB63-01630A	COVER-DISPLAY	ABS-FR(17)	1	1	SA
1-12	DB93-04452F	ASS'Y DISPLAY	ASS'Y	1	1	SA
1-13	DB61-02910A	FRAME-GRILLE	ASS'Y	1	1	SA
1-14	DB92-01052A	WINDOW-MIRROR	ACRYL	1	-	SNA
	DB92-01052B	WINDOW-MIRROR	ACRYL	-	1	SNA
1-15	DB61-03139B	SPING ETC-GRILLE	STS	1	1	SA
2	DB94-01237A	ASS'Y TRAY DRAIN	ASS'Y	1	-	SA
	DB94-01245A	ASS'Y TRAY DRAIN	ASS'Y	-	1	SA
2-1	DB63-01578A	TRAY DRAIN	ASS'Y	1	-	SA
	DB63-01581A	TRAY DRAIN	ASS'Y	-	1	SA
2-2	DB61-02908A	BLADE-H	ABS, EMPIRE SILVER	1	-	SA
	DB61-02914A	BLADE-H	ABS, EMPIRE SILVER	-	1	SA
2-3	DB61-01636A	BLADE-V	PP	2	-	SA
	DB61-01976A	BLADE-V	PP	-	2	SA
2-4	DB73-00180A	RUBBER-CAP DRAIN	GUM-EPM	1	1	SNA
2-5	DB94-00458B	ASS'Y DRAIN-HOSE	ASS'Y	1	1	SA
2-6	DB31-00371A	MOTOR STEP	ASS'Y	1	-	SA
	DB31-00370A	MOTOR STEP	ASS'Y	-	1	SA
3	DB63-00844D	COVER-TERMINAL	HIPS,V0	1	-	SA
	DB63-01063C	COVER-TERMINAL	HIPS,V0	-	1	SA
4	DB63-00850A	COVER-BEARING	ABS,BLACK	1	-	SNA
	DB63-01065A	COVER-BEARING	ABS,BLACK	-	1	SNA
5	DB96-03149A	ASS'Y EVAP-SUPPORT RH	ASS'Y	1	-	SA
	DB96-03817A	ASS'Y EVA P-SUPPORT RH	ASS'Y	-	1	SA

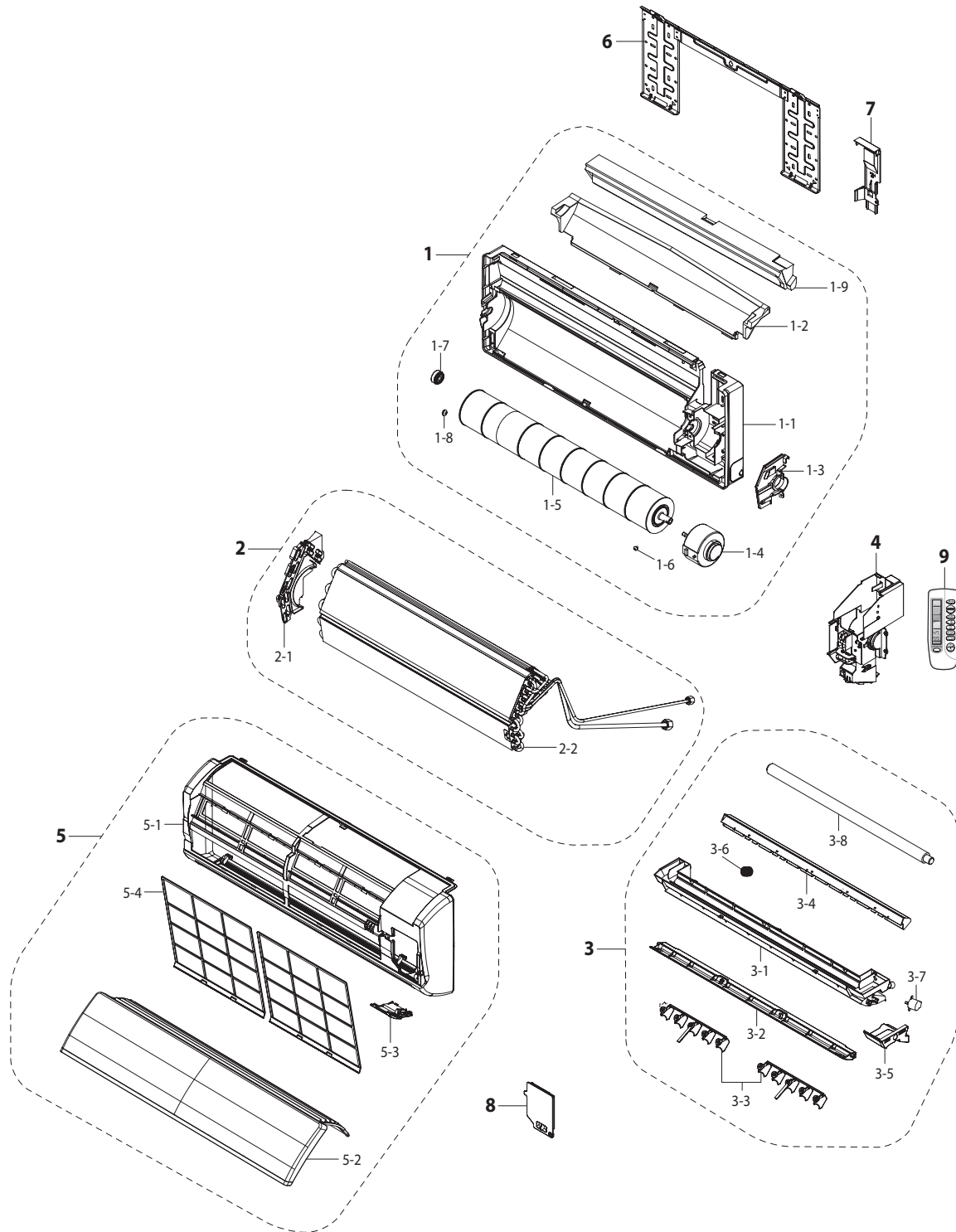
■ Parts List(cont.)

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				AVXWVH020C* AVXWVH032C* AVXWVH040C* ND020VH*** ND032VH*** ND040VH***	AVXWVH052C* AVXWVH060C* ND052VH*** ND060VH***	
6	DB93-04636J	ASS'Y CONTROL IN	ASS'Y	1	-	SNA
	DB93-04664B	ASS'Y CONTROL IN	ASS'Y	-	1	SNA
7	DB90-02167B	ASS'Y COVER-CONTROL IN	ASS'Y	1	-	SA
	DB90-02082A	ASS'Y COVER-CONTROL IN	ASS'Y	-	1	SA
8	DB96-07856A	ASS'Y EVAP-TOTAL	ASS'Y	1	-	SNA
	DB96-06587D	ASS'Y EVAP-TOTAL	ASS'Y	-	1	SNA
9	DB67-60030A	SPRING-SENSOR	STS301	2	2	SNA
10	DB94-00455A	ASS'Y BEARING-RUBBER	ASS'Y	1	1	SA
11	DB94-00456A	ASS'Y-CROSS FAN	ASS'Y	1	-	SA
	DB94-00456B	ASS'Y-CROSS FAN	ASS'Y	-	1	SA
12	DB31-00219A	MOTOR FAN	ASS'Y	1	-	SA
	DB31-00267A	MOTOR FAN	ASS'Y	-	1	SA
13	DB94-01152B	ASS'Y-BODY BACK	ASS'Y	1	-	SA
	DB94-01153B	ASS'Y-BODY BACK	ASS'Y	-	1	SA
13-1	DB61-03028A	BODY BACK	HIPS	1	-	SA
	DB61-03029A	BODY BACK	HIPS	-	1	SA
13-2	DB93-04230A	ASS'Y-COMPACT MPI	ASS'Y	1	-	SA
13-3	DB63-01583A	COVER-MPI	HIPS	1	-	SA
14	DB61-01638B	HOLDER-PIPE	HIPS	1	-	SA
	DB61-01981B	HOLDER-PIPE	HIPS	-	1	SA
15	DB67-00499C	CAP-SCREW	HIPS,EMPIRE SILVER	2	2	SA
16	DB97-02851B	PLATE-HANGER	SGCC-M	1	-	SNA
	DB90-02738A	PLATE-HANGER	SGCC-M	1	1	SNA
17	DB93-06280V	ASS'Y REMOCON	ASS'Y	-	1	SA

MEMO

5-1-11 Wall-mounted type(Neo Forte without EEV)

■ AVXWNH020/032/040C*, ND020/032/040NH***

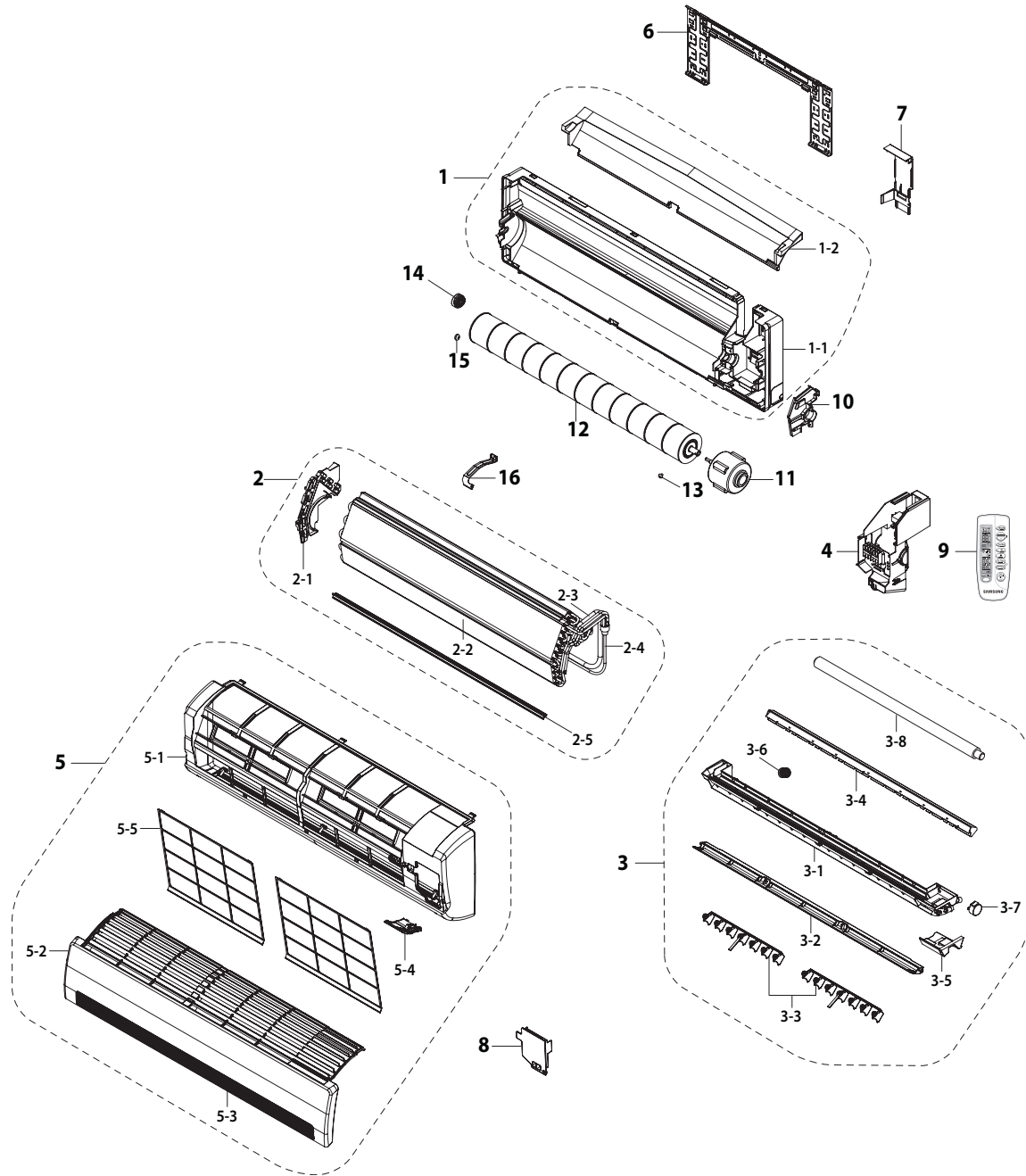


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB94-00454H	ASS'Y BACK BODY	ASS'Y	1	SA
1-1	DB61-01632D	BACK BODY	HIPS	1	SNA
1-2	DB69-00834A	CROSS FAN	EPS	1	SNA
1-3	DB96-03149A	ASS'Y SUPPORT EVAP RH	HIPS	1	SA
1-4	DB31-00219A	MOTOR IN	220-240V~,50/60Hz,Class E	1	SA
1-5	DB94-00456A	ASS'Y CROSS FAN	OD92xL635	1	SA
1-6	DB97-02075A	ASS'Y BOLT SPECIAL	ASS'Y	1	SNA
1-7	DB94-00455A	ASS'Y RUBBER BEARING	ASS'Y	1	SNA
1-8	DB94-40007A	ASS'Y BEARING	BEARING	1	SA
1-9	DB69-00833A	CUSHION EVAP UP	EPS	-	SA
2	DB96-09930A	ASS'Y EVAP TOTAL	ASS'Y	1	SA
2-1	DB63-00850A	COVER BEARING	ABS	-	SNA
2-2	DB96-03060G	ASS'Y EVAP	ASS'Y	1	SNA
3	DB94-00457J	ASS'Y TRAY DRAIN	ASS'Y	1	SA
3-1	DB63-00848A	TRAIN DRAIN	ABS	1	SNA
3-2	DB61-01635C	BLADE-H	HIPS	1	SA
3-3	DB61-01636A	BLADE-V	PP	1	SA
3-4	DB63-00849A	TRAY STABILIZER	ABS	1	SNA
3-5	DB69-00839A	CUSHION EPS TRAY RH	EPS	3	SA
3-6	DB73-00180A	RUBBER CAP DRAIN	GUM-EPM	3	SNA
3-7	DB31-00371A	ASS'Y MOTOR STEPPING	220-240V~,50/60Hz,Class E	1	SA
3-8	DB94-00458B	ASS'Y DRAIN HOSE	ASS'Y	1	SA
4	DB93-06025F	ASS'Y CONTROL IN	ASS'Y	1	SA
5	DB92-01237A	ASS'Y PANEL FRONT	ASS'Y	1	SA
5-1	DB64-00989E	PANEL FRONT	HIPS	1	SA
5-2	DB92-01207A	ASS'Y GRILLE AIR INLET	ASS'Y	1	SA
5-3	DB90-03094A	ASS'Y COVER DISPLAY	ASS'Y	1	SA
5-4	DB63-01591A	GUARD AIR FILTER	PP	1	SNA
6	DB97-02851B	ASS'Y PLATE HANGER	ASS'Y	-	SNA
7	DB61-01638B	HOLDER PIPE	PS	1	SNA
8	DB90-03965A	ASS'Y COVER TERMINAL	ASS'Y	1	SA
9	DB93-03012P	ASS'Y REMOCON	ASS'Y	1	SA

Wall-mounted type(Neo Forte without EEV)(cont.)

■ AVXWNH056/060C*, ND056/060NH*

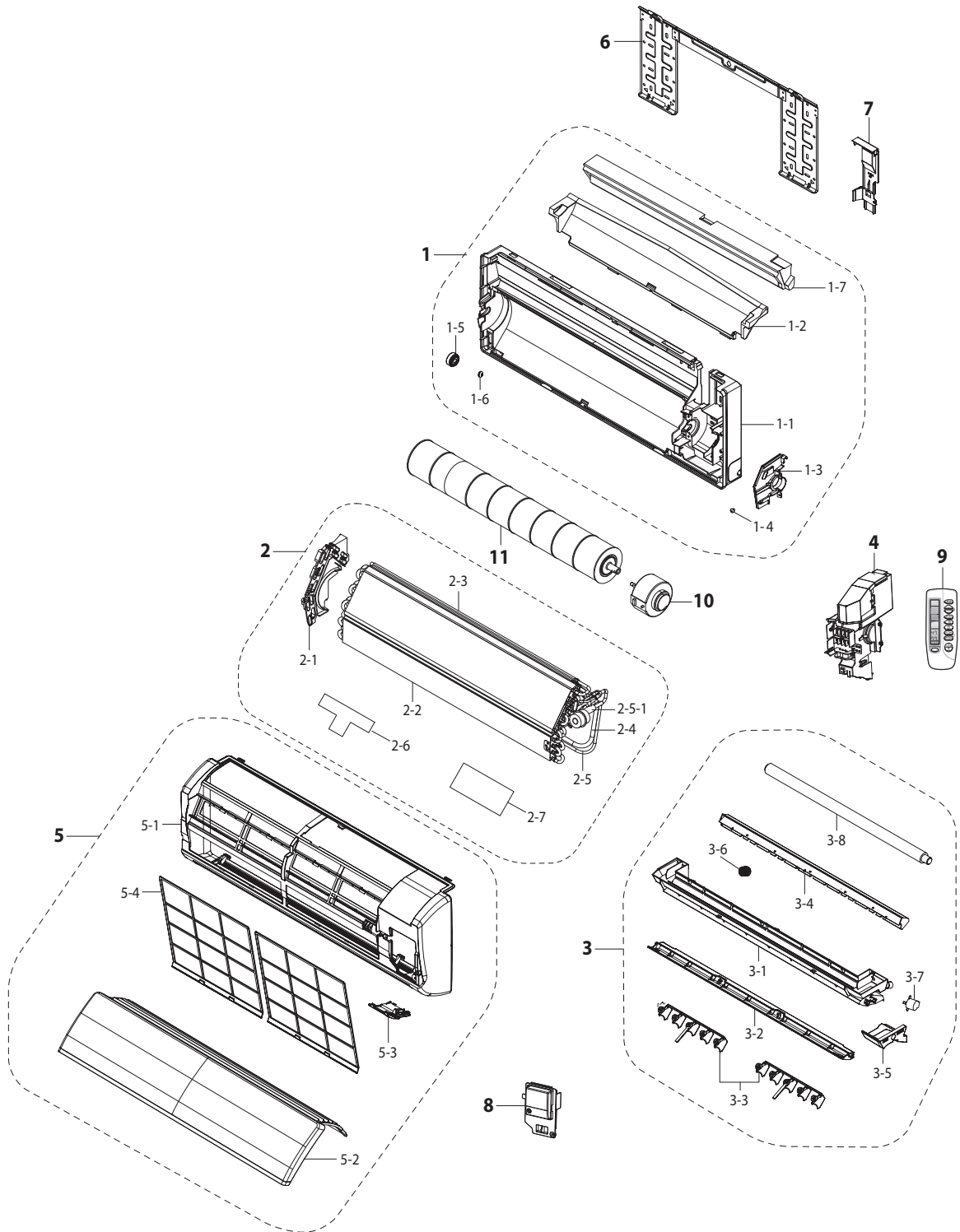


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB94-00615B	ASS'Y BACK BODY	ASS'Y	1	SA
1-1	DB61-01974B	BACK BODY	HIPS	1	SNA
1-2	DB69-01039A	CUSHION BACK BADDY	EPS	1	SNA
2	DB96-06587D	ASS'Y EVAP TOTAL	ASS'Y	1	SA
2-1	DB63-01065A	COVER BEARING	ABS	1	SNA
2-2	DB96-07606A	ASS'Y EVAP MAIN	ASS'Y	1	SNA
	DB96-06525B	ASS'Y EVAP SUB	ASS'Y	1	SNA
2-3	DB96-07590A	ASS'Y TUBE EVAP OUT	ASS'Y	1	SA
2-4	DB96-07589A	ASS'Y TUBE EVAP IN	ASS'Y	1	SA
2-5	DB60-00192A	SPACE EVAP LOW		1	SA
3	DB94-00616E	ASS'Y TRAY DRAIN	ASS'Y	1	SA
3-1	DB63-01071A	TRAIN DRAIN	ABS	1	SA
3-2	DB61-01975C	BLADE-H	HIPS	1	SNA
3-3	DB61-01976A	BLADE-V	PP	1	SNA
3-4	DB63-01066A	TRAY STABILIZER	ABS	1	SA
3-5	DB69-01024A	CUSHION EPS TRAY RH	EPS	1	SA
3-6	DB73-00180A	RUBBER CAP DRAIN	GUM-EPM	1	SA
3-7	DB31-00285A	ASS'Y MOTOR STEPPING	220-240V~,50/60Hz,Class E	1	SNA
3-8	DB94-00458B	ASS'Y DRAIN HOSE	ASS'Y	1	SNA
4	DB93-06038F	ASS'Y CONTROL IN	ASS'Y	1	SA
5	DB92-01235A	ASS'Y PANEL FRONT	ASS'Y	1	SNA
5-1	DB64-01184C	PANEL FRONT	HIPS	1	SA
5-2	DB64-02045A	ASS'Y GRILLE AIR INLET	ASS'Y	1	SA
5-3	DB64-02046A	DECORATION GRILLE	PC(GRAY)	1	SNA
5-4	DB93-02867C	ASS'Y COVER DISPLAY	ASS'Y	1	SA
5-5	DB63-01592B	GUARD AIR FILTER	PP	2	SNA
6	DB90-02738A	ASS'Y PLATE HANGER	ASS'Y	1	SA
7	DB61-01981B	ASS'Y DRAIN HOSE	PS	1	SA
8	DB90-03966A	ASS'Y COVER TERMINAL	ASS'Y	1	SA
9	DB93-03170Z	ASS'Y REMOCON	ARH-463	1	SA
10	DB96-03817A	ASS'Y SUPPORT EVAP RH	HIPS	1	SA
11	DB31-00267A	MOTOR IN	220-240V~,50/60Hz,Class E	1	SA
12	DB94-00456B	ASS'Y CROSS FAN	OD92xL635	1	SA
13	DB97-02075A	ASS'Y BOLT SPECIAL	ASS'Y	1	SNA
14	DB94-00455A	ASS'Y RUBBER BEARING	ASS'Y	1	SNA
15	DB94-40007A	ASS'Y BEARING MOTOR	BEARING	1	SNA
16	DB61-01977A	BRACKET EVAP	SGCC-M	1	SA

5-1-12 Wall-mounted type(Neo Forte with EEV)

■ ND020/032/040QHXC*

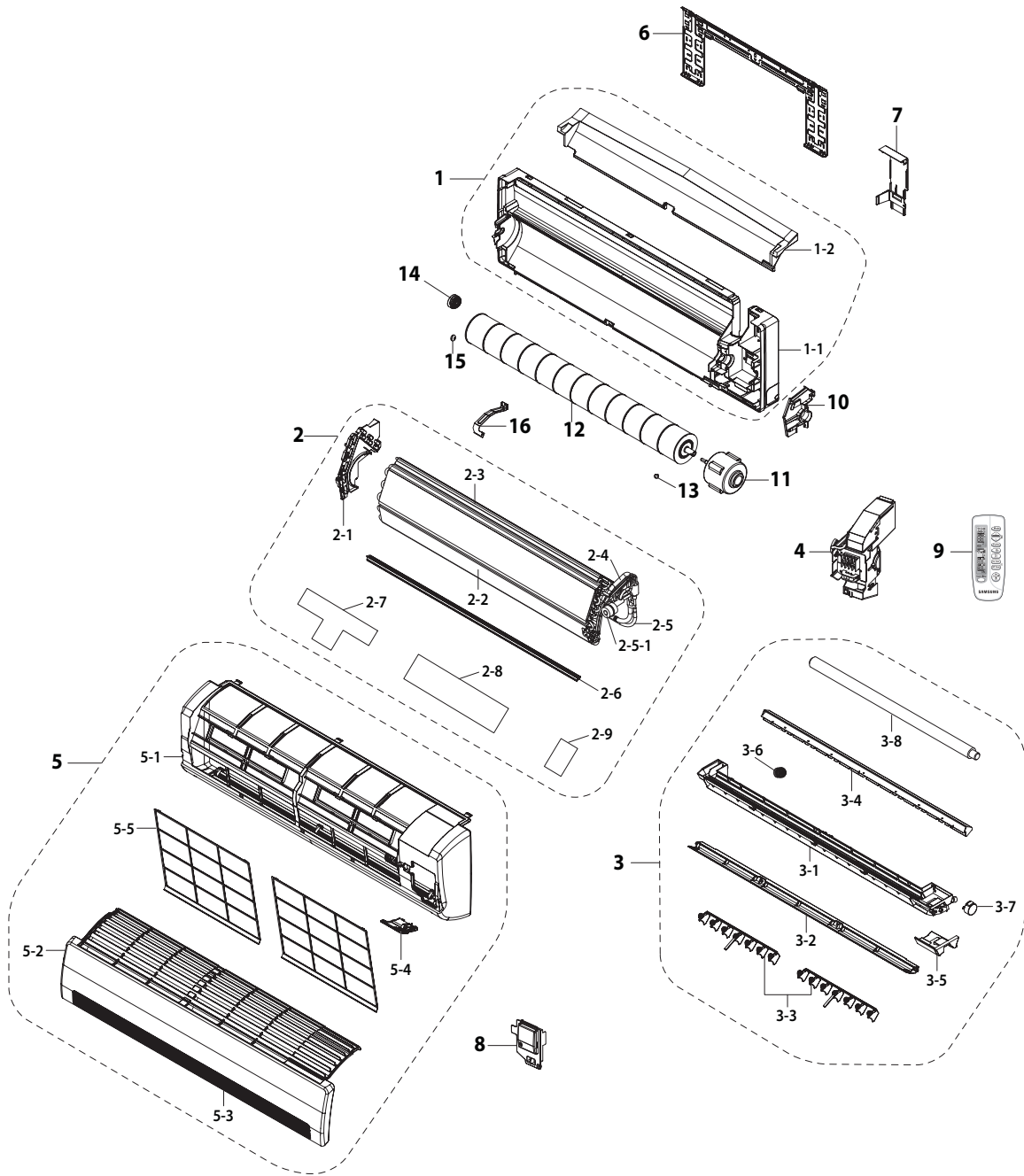


■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB94-00454H	ASS'Y BACK BODY	ASS'Y	1	SA
1-1	DB61-01632D	BACK BODY	HIPS	1	SNA
1-2	DB69-00834A	CUSION BODY BACK	EPS	1	SNA
1-3	DB96-03149A	ASS'Y SUPPORT EVAP RH	HIPS	1	SA
1-4	DB97-02075A	ASS'Y BOLT SPECIAL	ASS'Y	1	SNA
1-5	DB94-00455A	ASS'Y RUBBER BEARING	ASS'Y	1	SNA
1-6	DB94-40007A	ASS'Y BEARING	BEARING	1	SA
1-7	DB69-00833A	CUSHION EVAP UP	EPS	-	SA
2	DB96-13821B	ASS'Y EVAP TOTAL	ASS'Y	1	SA
2-1	DB63-00850A	COVER BEARING	ABS	1	SNA
2-2	DB96-04544F	ASS'Y EVAP MAIN	ASS'Y	1	SA
2-3	DB96-04546D	ASS'Y EVAP SUB	ASS'Y	1	SA
2-4	DB96-13794A	ASS'Y TUBE EVAP OUT	ASS'Y	1	SNA
2-5	DB96-13801A	ASS'Y TUBE EVAP IN	ASS'Y	1	SNA
2-5-1	DB62-09160A	EXPANSION VALVE	ø1.3 EEV	1	SA
2-6	DB73-00569A	RUBBER BUTYL	BUTYL	1	SA
2-7	DB73-00570A	RUBBER BUTYL	BUTYL	1	SA
3	DB94-00457J	ASS'Y TRAY DRAIN	ASS'Y	1	SA
3-1	DB63-00848A	TRAIN DRAIN	ABS	1	SNA
3-2	DB61-01635C	BRAD-H	HIPS	1	SA
3-3	DB61-01636A	BLADE-V	PP	1	SA
3-4	DB63-00849A	TRAY STABILIZER	ABS	1	SNA
3-5	DB69-00839A	CUSHION EPS TRAY RH	EPS	3	SA
3-6	DB73-00180A	RUBBER CAP DRAIN	GUM-EPM	3	SNA
3-7	DB31-00371A	ASS'Y MOTOR STEPPING	220-240V~,50/60Hz,Class E	1	SA
3-8	DB94-00458B	ASS'Y DRAIN HOSE	ASS'Y	1	SA
4	DB93-09503A	ASS'Y CONTROL IN	ASS'Y	1	SA
5	DB92-01237A	ASS'Y PANEL FRONT	ASS'Y	1	SA
5-1	DB64-00989E	PANEL FRONT	HIPS	1	SA
5-2	DB92-01207A	ASS'Y GRILLE AIR INLET	ASS'Y	1	SA
5-3	DB90-03094A	ASS'Y COVER DISPLAY	ASS'Y	1	SA
5-4	DB63-01591B	GUARD AIR FILTER	PP	1	SNA
6	DB97-02851C	ASS'Y PLATE HANGER	ASS'Y	1	SNA
7	DB61-01638B	HOLDER PIPE	HIPS	1	SNA
8	DB90-05667A	ASS'Y COVER TERMINAL	ASS'Y	1	SA
9	DB93-03170Z	ASS'Y REMOCON	ARH-465	1	SA
10	DB31-00219A	MOTOR IN	220-240V~,50/60Hz,Class E	1	SA
11	DB94-00456A	ASS'Y CROSS FAN	OD92xL635	1	SA

Wall-mounted type(Neo Forte with EEV)(cont.)

■ ND052/060QHXC*

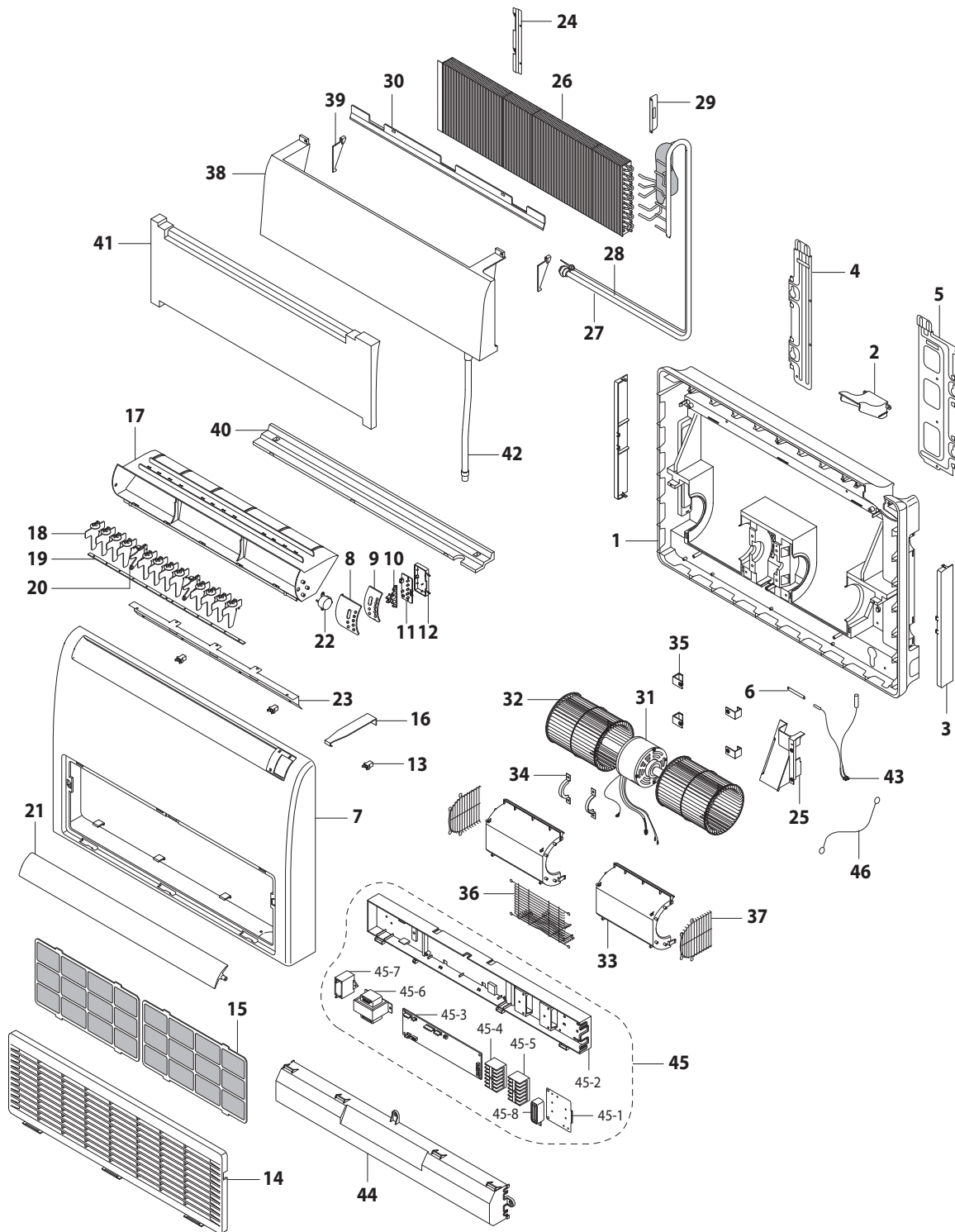


■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				ND052QHXC*	ND060QHXC*	
1	DB94-00615B	ASS'Y BACK BODY	ASS'Y	1	1	SA
1-1	DB61-01974B	BACK BODY	HIPS	1	1	SNA
1-2	DB69-01039A	CUSHION BACK BADDY	EPS	1	1	SNA
2	DB96-13822B	ASS'Y EVAP TOTAL	ASS'Y	1	-	SA
	DB96-13822C	ASS'Y EVAP TOTAL	ASS'Y	-	1	SA
2-1	DB63-01065A	COVER BEARING	ASS'Y	1	1	SNA
2-2	DB96-07606B	ASS'Y EVAP MAIN	ASS'Y	1	1	SA
2-3	DB96-06525B	ASS'Y EVAP SUB	ASS'Y	1	1	SA
2-4	DB96-07590A	ASS'Y TUBE EVAP OUT	ASS'Y	1	-	SNA
	DB96-07590B	ASS'Y TUBE EVAP OUT	ASS'Y	-	1	SNA
2-5	DB96-13804B	ASS'Y TUBE EVAP IN	ASS'Y	1	-	SNA
	DB96-13804A	ASS'Y TUBE EVAP IN	ASS'Y	-	1	SNA
2-5-1	DB62-09159A	EXPANSION VALVE	ø2.0 EEV	1	1	SA
2-6	DB60-00192A	SPACE EVAP LOW		1	1	SNA
2-7	DB73-00569A	RUBBER BUTYL	BUTYL	1	1	SA
2-8	DB73-00571A	RUBBER BUTYL	BUTYL	1	1	SA
2-9	DB73-00571B	RUBBER BUTYL	BUTYL	1	1	SA
3	DB94-00616E	ASS'Y TRAY DRAIN	ASS'Y	1	1	SA
3-1	DB63-01071A	TRAIN DRAIN	ABS	1	1	SNA
3-2	DB61-01975C	BLADE-H	HIPS	1	1	SA
3-3	DB61-01976A	BLADE-V	PP	1	1	SA
3-4	DB63-01066A	TRAY STABILIZER	ABS	1	1	SNA
3-5	DB69-01024A	CUSHION EPS TRAY RH	EPS	1	1	SA
3-6	DB73-00180A	RUBBER CAP DRAIN	GUM-EPM	1	1	SNA
3-7	DB31-00285A	ASS'Y MOTOR STEPPING	220-240V~,50/60Hz,Class E	1	1	SA
3-8	DB94-00458B	ASS'Y DRAIN HOSE	ASS'Y	1	1	SA
4	DB93-09504A	ASS'Y CONTROL IN	ASS'Y	1	1	SA
5	DB92-01235A	ASS'Y PANEL FRONT	ASS'Y	1	1	SA
5-1	DB64-01184C	PANEL FRONT	HIPS	1	1	SA
5-2	DB64-02045A	ASS'Y GRILLE AIR INLET	ASS'Y	1	1	SA
5-3	DB64-02046A	DECORATION GRILLE	PC(GRAY)	1	1	SA
5-4	DB93-02867C	ASS'Y COVER DISPLAY	ASS'Y	1	1	SA
5-5	DB63-01592C	GUARD AIR FILTER	PP	2	2	SNA
6	DB90-02738A	ASS'Y PLATE HANGER	ASS'Y	1	1	SNA
7	DB61-01981B	HOLDER PIPE	HIPS	1	1	SNA
8	DB90-05667B	ASS'Y COVER TERMINAL	ASS'Y	1	1	SA
9	DB93-03170Z	ASS'Y REMOCON	ARH-465	1	1	SA
10	DB96-03817A	ASS'Y SUPPORT EVAP RH	HIPS	1	1	SA
11	DB31-00442A	MOTOR IN	220-240V~,50/60Hz,Class E	1	1	SA
12	DB94-00456B	ASS'Y CROSS FAN	OD92xL635	1	1	SA
13	DB97-02075A	ASS'Y BOLT SPECIAL	ASS'Y	1	1	SNA
14	DB94-00455A	ASS'Y RUBBER BEARING	ASS'Y	1	1	SNA
15	DB94-40007A	ASS'Y BEARING MOTOR	BEARING	1	1	SA
16	DB61-01977A	BRACKET EVAP	SGCC-M	1	1	SA

5-1-13 Ceiling type

■ ND052/070CHXCA



■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				ND052CHXCA	ND070CHXCA	
1	DB64-00682A	CABI BASE	ABS	1	1	SA
2	DB63-00601A	COVER PIPE	ABS	1	1	SA
3	DB63-00602A	COVER SIDE	ABS	2	2	SA
4	DB61-01149A	PLATE HANGER LF	SGCC-M	1	1	SA
5	DB61-01150A	PLATE HANGER RH	SGCC-M	1	1	SA
6	DB61-01155A	BRACKET COVER PIPE	SGCC-M	1	1	SA
7	DB64-00683A	CABI FRONT	ABS(SILK PRINT)	1	1	SA
8	DB63-00606C	COVER DISPLAY A	ABS(SILK PRINT)	1	1	SA
9	DB63-00607A	COVER DISPLAY B	PC	1	1	SA
10	DB63-00604A	COVER LED	ABS	1	1	SA
11	DB93-01476B	DISPLAY PCB IN	PCB	1	1	SA
12	DB61-01159A	CASE DISPLAY PCB	ABS	1	1	SA
13	DB66-00451A	LATCH PUSH	ASS'Y	3	3	SA
14	DB64-00684A	INLET GRILLE	ABS	1	1	SA
15	DB63-00610A	FILTER AIR	PP	2	2	SA
16	DB61-01153A	PLATE HANGER FRONT	SGCC-M	1	1	SA
17	DB61-01156A	BRACKET OUTLET	ABS	1	1	SA
18	DB31-00158A	BLADE V	ABS	12	12	SA
19	DB31-00159A	BLADE CONNECTOR V	ABS	2	2	SA
20	DB31-00164A	BLADE CONNECTOR H	ABS	2	2	SA
21	DB31-00157A	BLADE H	ABS	1	1	SA
22	DB31-10113A	SWING MOTOR IN	ASS'Y	1	1	SA
23	DB61-01352A	BRACKET DRAIN	SGCC-M	1	1	SA
24	DB67-00258A	DRAIN SUB LF	SGCC-M	1	1	SA
25	DB67-00259A	DRAIN SUB RH	ABS	1	1	SA
26	DB96-07272B	EVAPORATOR	ASS'Y	1	1	SA
27	DB96-07656A	ASS'Y COLLECTOR	ASS'Y	-	1	SA
	DB96-07656B	ASS'Y COLLECTOR	ASS'Y	1	-	SA
28	DB96-07658A	ASS'Y INLET	ASS'Y	-	1	SA
	DB96-07657A	ASS'Y INLET	ASS'Y	1	-	SA
29	DB61-01157A	BRACKET EVAP	SGCC-M	1	1	SA
30	DB63-00624A	COVER EVAP	ABS	1	1	SA
31	DB31-00467B	MOTOR FAN	ASS'Y(Y5S413B216)	0	1	SA
	DB31-00467C	MOTOR FAN	ASS'Y(Y5S613A86)	1	0	SA
32	DB67-00260A	BLOWER	ABS	2	2	SA
33	DB61-01160A	CASE FAN UP	ABS	2	2	SA
34	DB63-00611A	COVER MOTOR	SGCC-M	2	2	SA
35	DB61-01162A	HOLDER MOTOR	SGCC-M	4	4	SA
36	DB63-00738A	GUARD SAFETY	HSWR	1	1	SA
37	DB63-00739A	GUARD FAN	HSWR	2	2	SA
38	DB67-00257A	DRAIN PAN	ABS	1	1	SA
39	DB67-00275A	DRAIN PARTITION	ABS	2	2	SA

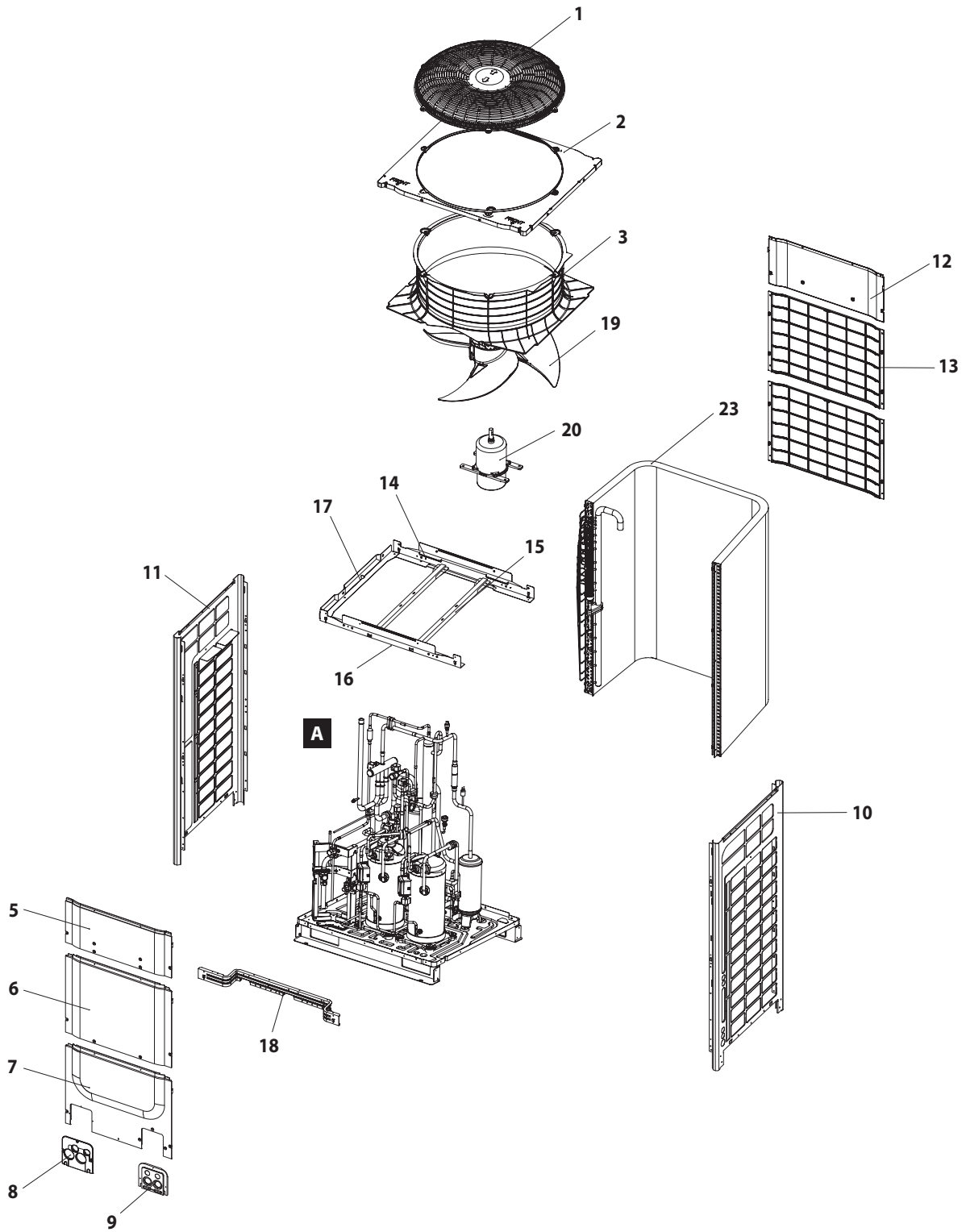
■ Parts List(cont.)

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				ND052CHXCA	ND070CHXCA	
40	DB69-00617A	CUSHION DRAIN A	EPS(25FOAM-PS)	1	1	SA
41	DB69-00714A	CUSHION DRAIN B	EPS(25FOAM-PS)	1	1	SA
42	DB94-00240E	ASS'Y DRAIN HOSE	ASS'Y	1	1	SA
43	DB32-00141B	THERMISTOR EVAP	ASS'Y	1	1	SA
44	DB63-00605A	COVER CONTROL	ABS(UL94-V0)	1	1	SA
45	DB93-05193B	ASS'Y CONTROL IN	ASS'Y	-	1	SA
	DB93-05193A	ASS'Y CONTROL IN	ASS'Y	1	-	SA
45-1	DB61-01154A	BASE CONTROL	SGCC-M	1	1	SA
45-2	DB61-01220A	CASE PCB MAIN	ABS(UL94-V0)	1	1	SA
45-3	DB93-05982C	CEILING EU,PCB ASS'Y	PCB	1	1	SA
45-4	DB65-00105M	TERMINAL BLOCK 6P	DAF-S6P	1	1	SA
45-5	DB95-01101B	TERMINAL BLOCK 6P	DAF-S6P	1	1	SA
45-6	DB26-00080A	TRANS POWER	ASS'Y	1	1	SA
45-7	2301-001368	CAPACITOR	5uF 450VAC	-	1	SA
	2301-001369	CAPACITOR	3uF 450VAC	1	-	SA
45-8	DB61-00250A	CLAMP WIRE	NYLON	2	2	SA
46	DB32-00102D	THERMISTOR EVAP OUT	ASS'Y	1	1	SA

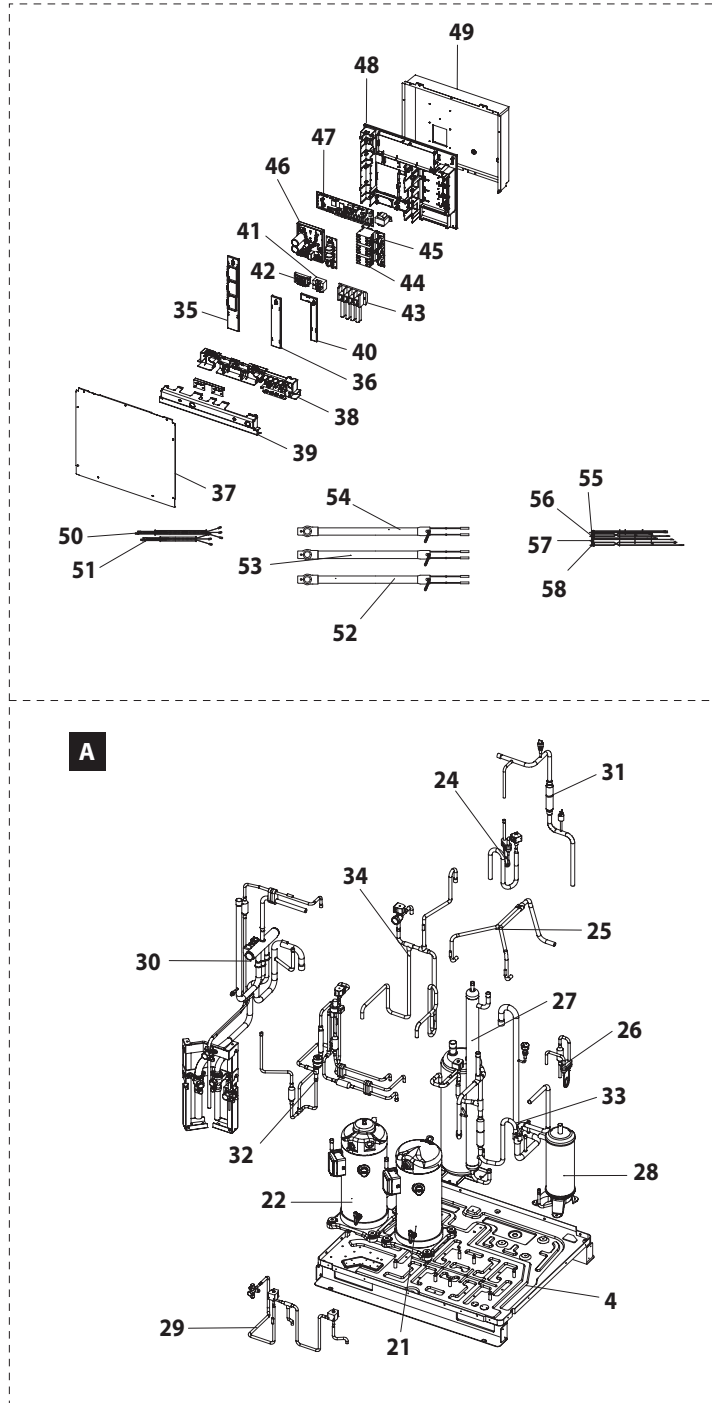
MEMO

5-2 Outdoor Unit

5-2-1 RVXVHT075/100FE, RD075/100VHXFA



RVXVHT075/100FE, RD075/100VHXFA(cont.)



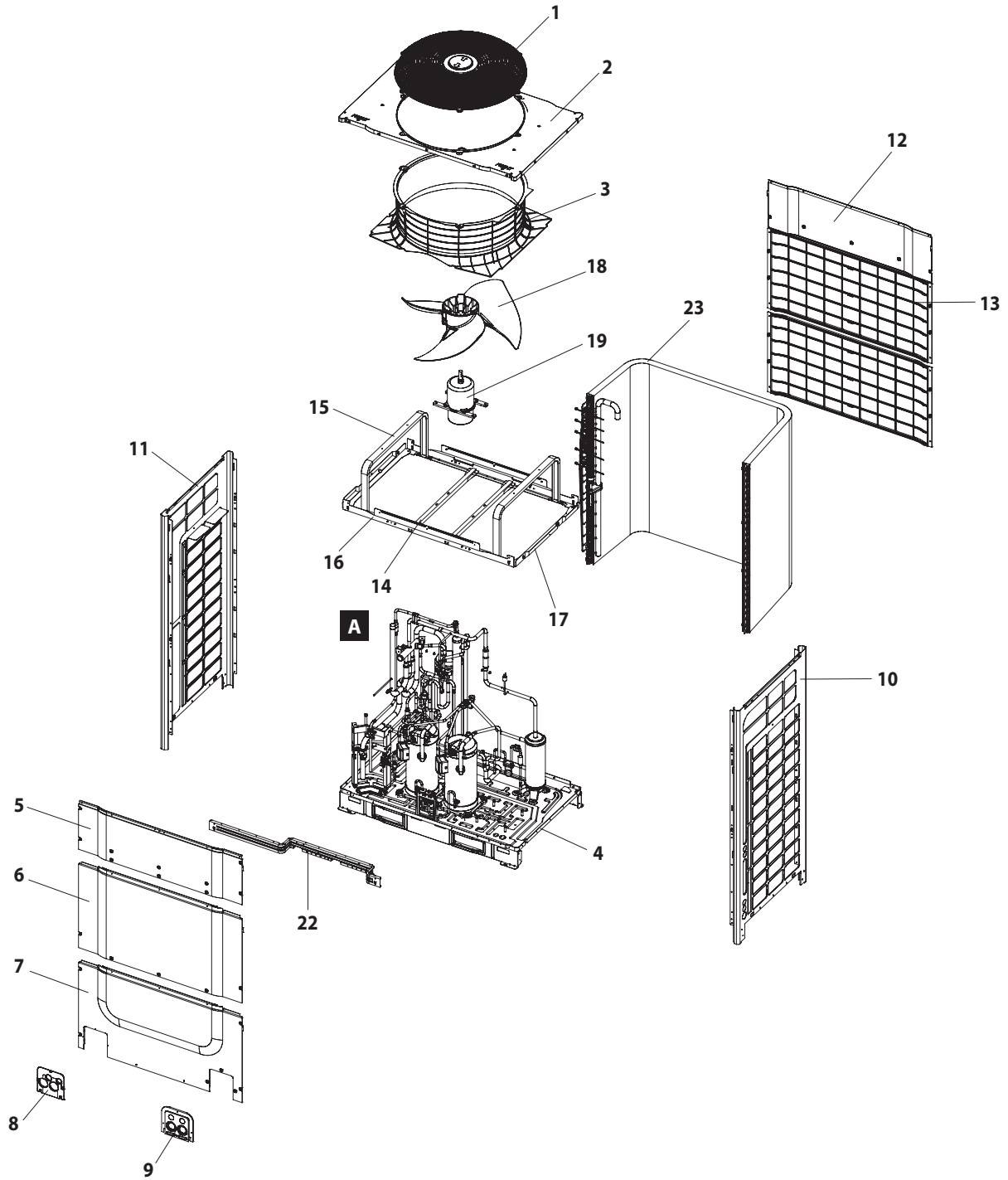
■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				RVXVHT075FE RD075VHXFA	RVXVHT100FE RD100VHXFA	
1	DB63-02614A	GUARD-FAN	MSWR-SWRM, TOUCH GRAY	1	1	SA
2	DB63-02618A	COVER-TOP	EGI-SECC, T1.2, TOUCH GRAY	1	1	SA
3	DB62-03304B	BELLOW-MOUTH	PP,TOUCH GRAY	1	1	SA
4	DB90-02141A	ASS'Y BASE COMP	ASS'Y	1	1	SNA
5	DB90-02121E	ASS'Y CABI FRONT-UP 10HP	ASS'Y	1	1	SA
6	DB90-02122C	ASS'Y CABI FRONT-MID 10HP	ASS'Y	1	1	SA
7	DB90-02123B	ASS'Y CABI FRONT-LOW	ASS'Y	1	1	SA
8	DB63-01921A	COVER-VALVE	PP,TOUCH GRAY	1	1	SA
9	DB63-01441A	COVER-PLATE	SECC-P,t0.8,TOUCH GRAY	1	1	SA
10	DB90-04734A	ASS'Y-CABI SIDE RH	ASS'Y	1	1	SA
11	DB90-04735A	ASS'Y-CABI SIDE LF	ASS'Y	1	1	SA
12	DB90-02130D	ASS'Y CABI BACK-UP 14HP	ASS'Y	1	1	SA
13	DB90-02317A	ASS'Y-GUARD COND BACK	ASS'Y	2	2	SA
14	DB90-02145C	ASS'Y BACK BEAM UP 10HP	ASS'Y	1	1	SNA
15	DB61-02255A	BRACKET MOTOR	SGCC-M,t2.0	1	1	SA
16	DB90-02143B	ASS'Y FRONT BEAM UP	ASS'Y	1	1	SNA
17	DB90-02638B	ASS'Y-PLATE BEAM SIDE LF	ASS'Y	1	1	SNA
18	DB90-04740A	ASS'Y FRONT BEAM LOW	ASS'Y	1	1	SNA
19	DB31-00298A	FAN PROPELLER	AS+G/F20%	1	1	SA
20	DB31-00330B	MOTOR FAN	UGBTEF-13LSAM02	1	1	SA
21	DB95-01456H	ASS'Y COMP-EVI (FIXED)	ZPI61KCE-TF5-496	1	1	SA
22	DB95-01468F	ASS'Y COMP-EVI (DIGITAL)	ZPJ72KCE-TF5-496	1	1	SA
23	DB96-09442B	ASS'Y COND OUT-A	ASS'Y	1	1	SA
24	DB96-12960A	ASS'Y-TUBE HOT-GAS BYPASS	ASS'Y	1	1	SA
25	DB96-08421A	ASS'Y TUBE DISCHARGE-A	ASS'Y	1	1	SA
26	DB96-12415A	ASS'Y TUBE-OIL RETURN A	ASS'Y	1	1	SNA
27	DB96-12350A	ASS'Y-ACCUM SUBCOOLER 12HP	ASS'Y	1	1	SNA
28	DB96-08688A	ASS'Y OIL SEPAOTOR 12HP	ASS'Y	1	1	SA
29	DB96-11587D	ASS'Y TUBE-OIL BALANCE VALVE-A	ASS'Y	1	1	SA
30	DB96-12956A	ASS'Y-TUBE 4WAY LIQUID SVC VV	ASS'Y	1	1	SNA
31	DB96-12942A	ASS'Y-OIL SEPA OUT A	ASS'Y	1	1	SNA
32	DB96-12949A	ASS'Y-EXPANSION BYPASS VALVE B	ASS'Y	1	1	SNA
33	DB96-12417A	ASS'Y TUBE SUCTION-PWM A	ASS'Y	1	1	SNA
34	DB96-12406A	ASS'Y TUBE-VAPOR INJECTION	ASS'Y	1	1	SNA
35	DB63-01361D	COVER-CONTROL IN	ABS,5V	1	1	SNA
36	DB63-01361E	COVER-CONTROL IN	ABS,5V	1	1	SNA
37	DB90-02149A	ASS'Y COVER CONTROL-BOX	ASS'Y	1	1	SA
38	DB93-07899A	ASS'Y CONTROL-WIRE LOW	ASS'Y	1	1	SA
39	DB63-02249A	COVER-CONTROL WIRE UP	ABS,5V	1	1	SNA
40	DB63-01361F	COVER-CONTROL IN	ABS,5V	1	1	SNA
41	DB65-00209B	TERMINAL BLOCK-AC	DATA 60A,AC1500V,10mA	1	1	SA

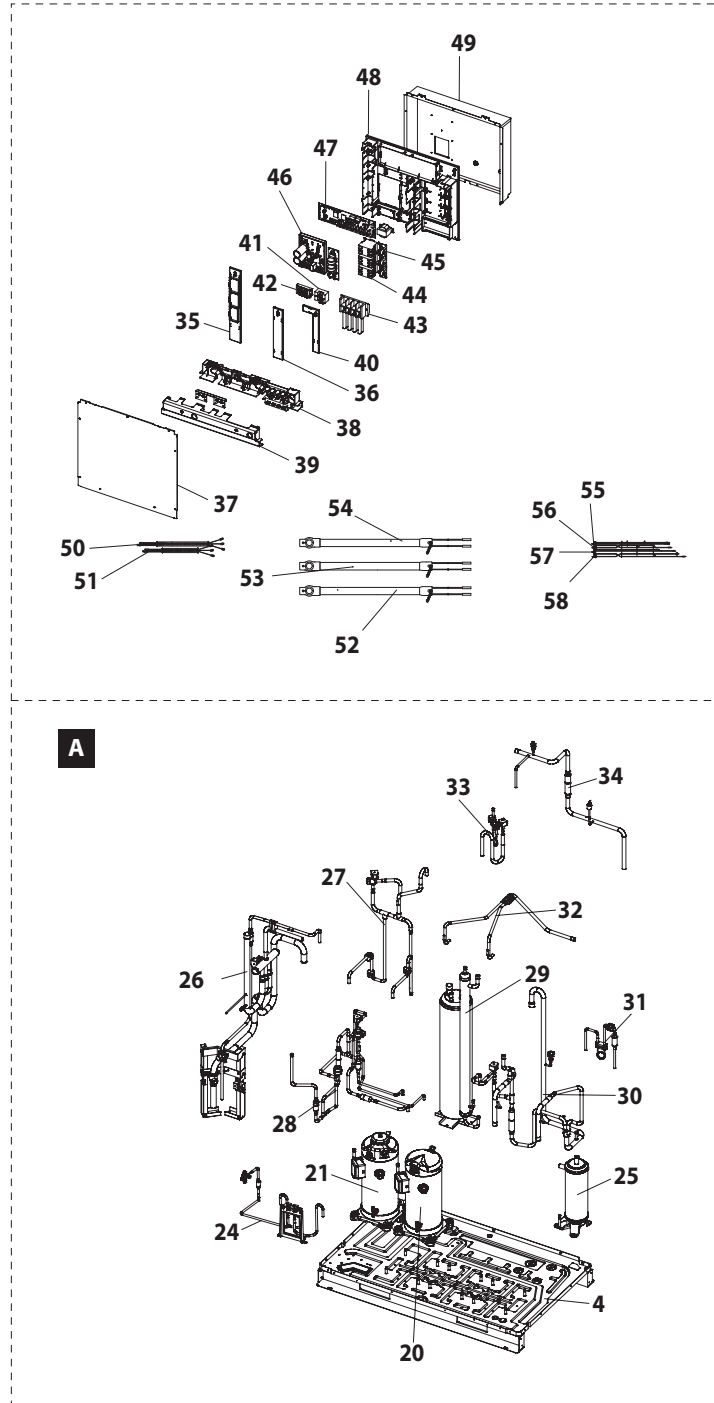
■ Parts List(cont.)

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				RVXVHT075FE RD075VHXFA	RVXVHT100FE RD100VHXFA	
42	DB65-40062U	TERMINAL BLOCK	ASS'Y	1	1	SA
43	DB65-00232D	TERMINAL BLOCK-3PHASE	ASS'Y	1	1	SNA
44	DB35-00096A	RELAY	XMC0-503IBBC00F	2	2	SA
45	DB93-08707A	ASS'Y PCB SUB	ASS'Y	1	1	SA
46	DB93-06543K	ASS'Y-BLDC DRIVER	ASS'Y	1	1	SA
47	DB93-08701A	ASS'Y PCB MAIN-OUT	ASS'Y	1	-	SA
	DB93-08701B	ASS'Y PCB MAIN-OUT	ASS'Y	-	1	SA
48	DB90-05282A	ASS'Y CASE CONTROL IN	ASS'Y	1	1	SNA
49	DB64-01311C	CONTROL-BOX BODY	SGCC-M,t0.8	1	1	SNA
50	DB93-08105A	ASS'Y LEAD WIRE-MAIN COMP	ASS'Y	1	1	SA
51	DB93-08105B	ASS'Y LEAD WIRE-MAIN COMP	ASS'Y	1	1	SA
52	DB95-00766G	ASS'Y COMP-HEATER	ASS'Y	1	1	SA
53	DB95-00766H	ASS'Y COMP-HEATER	ASS'Y	1	1	SA
54	DB95-01425B	ASS'Y BELT HEATER	ASS'Y	-	-	SA
55	DB95-01959D	ASS'Y DISCHARGE SENSOR	ASS'Y	1	1	SA
56	DB95-01965C	ASS'Y-THERMISTOR OUTDOOR	ASS'Y	1	1	SA
57	DB95-01962A	ASS'Y-THERMISTOR OUT SUMP	ASS'Y	1	1	SA
58	DB95-01960A	ASS'Y THERMISTOR-EVI IN OUT	ASS'Y	1	1	SA

5-2-2 RVXVHT125FE, RD125VHXFA



RVXVHT125FE, RD125VHXFA(cont.)



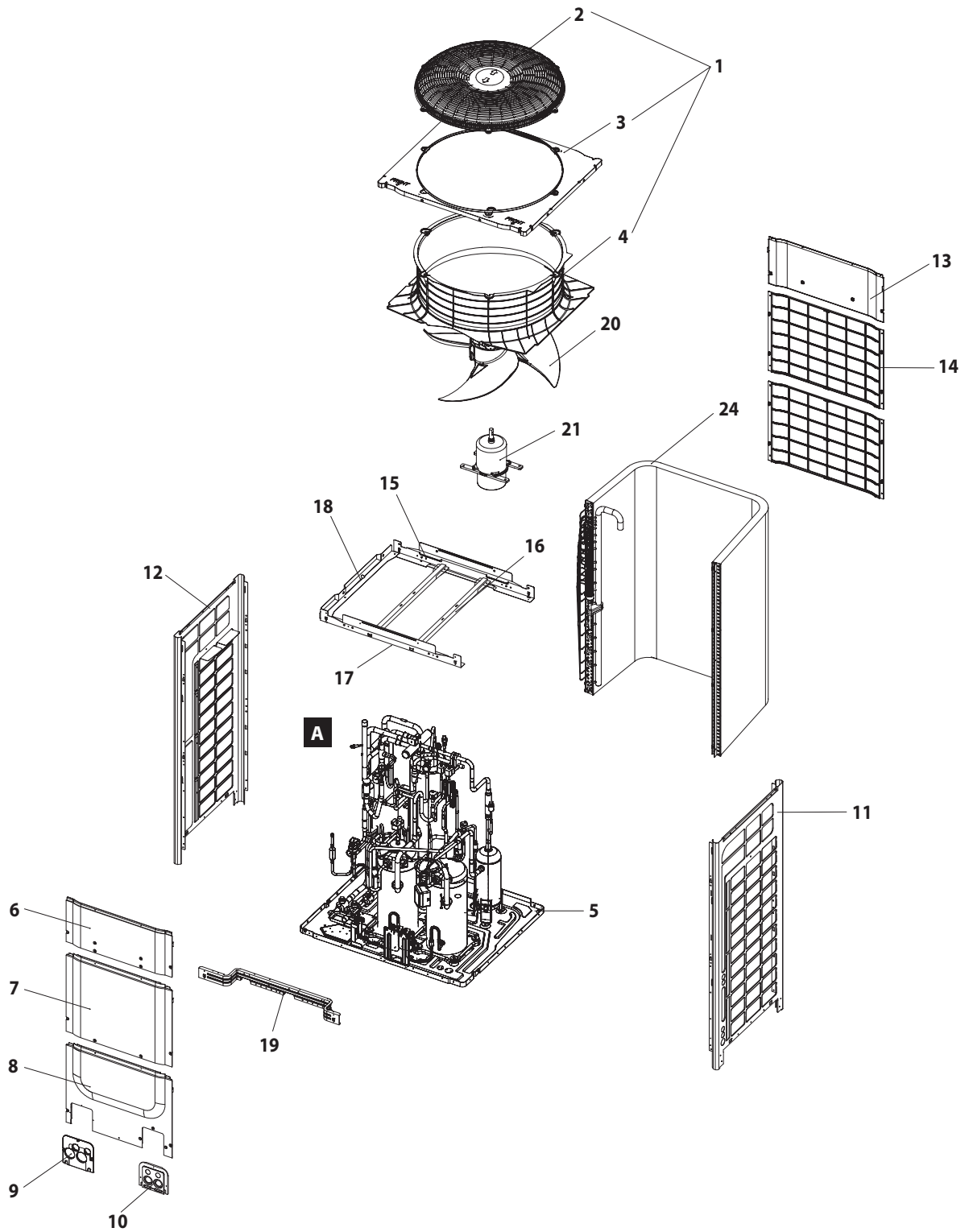
■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB63-02614A	GUARD-FAN	MSWR-SWRM, TOUCH GRAY	1	SA
2	DB63-02619A	COVER-TOP	EGI-SECC, T1.2, TOUCH GRAY	1	SA
3	DB62-03304B	BELLOW-MOUTH	PP,TOUCH GRAY	1	SA
4	DB90-04730A	ASS'Y BASE OUTDOOR	ASS'Y	1	SNA
5	DB90-02131E	ASS'Y CABI FRONT-UP	ASS'Y	1	SA
6	DB90-02132C	ASS'Y CABI FRONT-MID	ASS'Y	1	SA
7	DB90-02133B	ASS'Y CABI FRONT-LOW	ASS'Y	1	SA
8	DB63-01921A	COVER-VALVE	PP,TOUCH GRAY	1	SA
9	DB63-01441A	COVER-PLATE	SECC-P;T0.8,TOUCH GRAY	1	SA
10	DB90-04734A	ASS'Y-CABI SIDE RH	ASS'Y	1	SA
11	DB90-04735A	ASS'Y-CABI SIDE LF	ASS'Y	1	SA
12	DB90-02140D	ASS'Y CABI BACK-UP 14HP	ASS'Y	1	SA
13	DB90-02320A	ASS'Y-GUARD COND BACK	ASS'Y	2	SA
14	DB61-02255A	BRACKET MOTOR	SGCC-M,T2.0	2	SA
15	DB61-02299A	SUPPORT-TOP	SGCC-M,T1.6	2	SNA
16	DB90-02144B	ASS'Y FRONT BEAM UP	ASS'Y	2	SNA
17	DB90-02638B	ASS'Y-PLATE BEAM SIDE LF	ASS'Y	2	SNA
18	DB31-00298A	FAN PROPELLER	AS+G/F20%	1	SA
19	DB31-00330B	MOTOR FAN	UGBTEF-13LSAM02	1	SA
20	DB95-01456G	ASS'Y COMP-EVI (FIXED)	ZPI83KCE-TF5-496	1	SA
21	DB95-01468G	ASS'Y COMP-EVI (DIGITAL)	ZPJ83KCE-TF5-496	1	SA
22	DB90-04739A	ASS'Y BEAM FRONT LOW	ASS'Y	1	SA
23	DB96-09444B	ASS'Y COND OUT-C	ASS'Y	1	SA
24	DB96-11587C	ASS'Y TUBE-OIL BALANCE VALVE-A	ASS'Y	1	SA
25	DB96-08687A	ASS'Y-OIL SEPAPATOR 16HP	ASS'Y	1	SNA
26	DB96-12425A	ASS'Y-TUBE 4WAY LIQUID SVC VV	ASS'Y	1	SNA
27	DB96-12312A	ASS'Y TUBE-VAPOR INJECTION	ASS'Y	1	SNA
28	DB96-12950A	ASS'Y-EXPANSION BYPASS VALVE	ASS'Y	1	SNA
29	DB96-12350A	ASS'Y-ACCUM SUBCOOLER	ASS'Y	1	SNA
30	DB96-12958A	ASS'Y TUBE SUCTION-PWM	ASS'Y	1	SNA
31	DB96-12311A	ASS'Y TUBE-OIL RETURN	ASS'Y	1	SNA
32	DB96-12320A	ASS'Y TUBE DISCHARGE-A	ASS'Y	1	SA
33	DB96-12959A	ASS'Y-TUBE HOT-GAS BYPASS	ASS'Y	1	SNA
34	DB96-08924A	ASS'Y-TUBE OIL SEPA OUT	ASS'Y	1	SA
35	DB63-01361D	COVER-CONTROL IN	ABS,5V	1	SNA
36	DB63-01361E	COVER-CONTROL IN	ABS,5V	1	SNA
37	DB90-02149A	ASS'Y COVER CONTROL-BOX	ASS'Y	1	SA
38	DB93-07899A	ASS'Y CONTROL-WIRE LOW	ASS'Y	1	SA
39	DB63-02249A	COVER-CONTROL WIRE UP	ABS,5V	1	SNA
40	DB63-01361F	COVER-CONTROL IN	ABS 5V	1	SNA
41	DB65-00209B	TERMINAL BLOCK-AC	DATA 60A,AC1500V,10mA	1	SA
42	DB65-40062U	TERMINAL BLOCK	ASS'Y	1	SA
43	DB65-00232D	TERMINAL BLOCK-3PHASE	ASS'Y	1	SNA

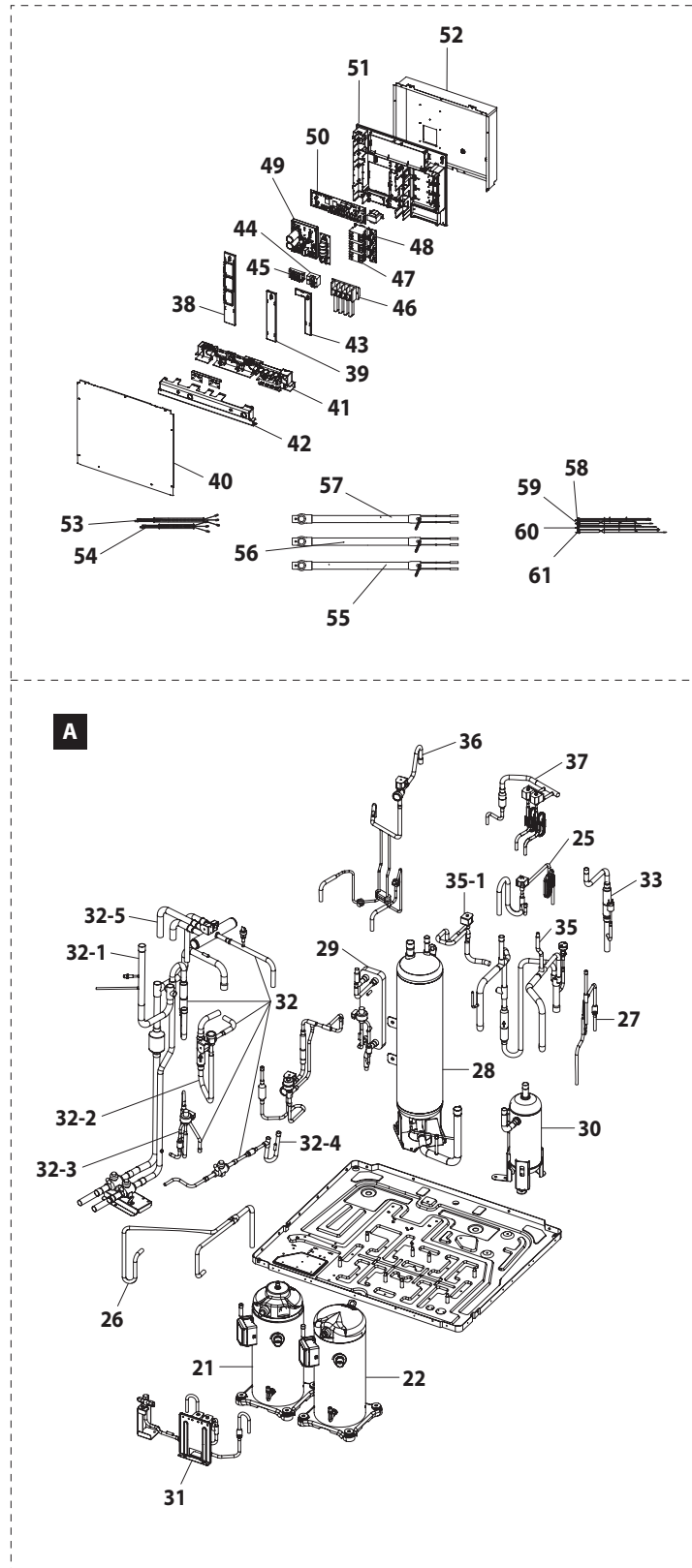
■ Parts List(cont.)

No.	Code No.	Description	Specification	Q'TY	SA/SNA
44	DB35-00096A	RELAY	XMCO-503IBBC00F	2	SA
45	DB93-08707A	ASS'Y PCB SUB	ASS'Y	1	SA
46	DB93-06543K	ASS'Y-BLDC DRIVER	ASS'Y	1	SNA
47	DB93-08701C	ASS'Y PCB MAIN-OUT	ASS'Y	1	SA
48	DB90-05282A	ASS'Y CASE CONTROL IN	ASS'Y	1	SNA
49	DB64-01311C	CONTROL-BOX BODY	SGCC-M,T0.8	1	SNA
50	DB93-08105C	ASS'Y LEAD WIRE-MAIN COMP	ASS'Y	1	SA
51	DB93-08105D	ASS'Y LEAD WIRE-MAIN COMP	ASS'Y	1	SA
52	DB95-00766G	ASS'Y COMP-HEATER	ASS'Y	1	SA
53	DB95-00766H	ASS'Y COMP-HEATER	ASS'Y	1	SA
54	DB95-01425B	ASS'Y BELT HEATER	ASS'Y	-	SA
55	DB95-01959G	ASS'Y DISCHARGE SENSOR	ASS'Y	1	SA
56	DB95-01965J	ASS'Y-THERMISTOR OUTDOOR	ASS'Y	1	SA
57	DB95-01962B	ASS'Y-THERMISTOR OUT SUMP	ASS'Y	1	SA
58	DB95-01960B	ASS'Y THERMISTOR-EVI IN OUT	ASS'Y	1	SA

5-2-3 RD075/100VRXFA



RD075/100VRXFA(cont.)



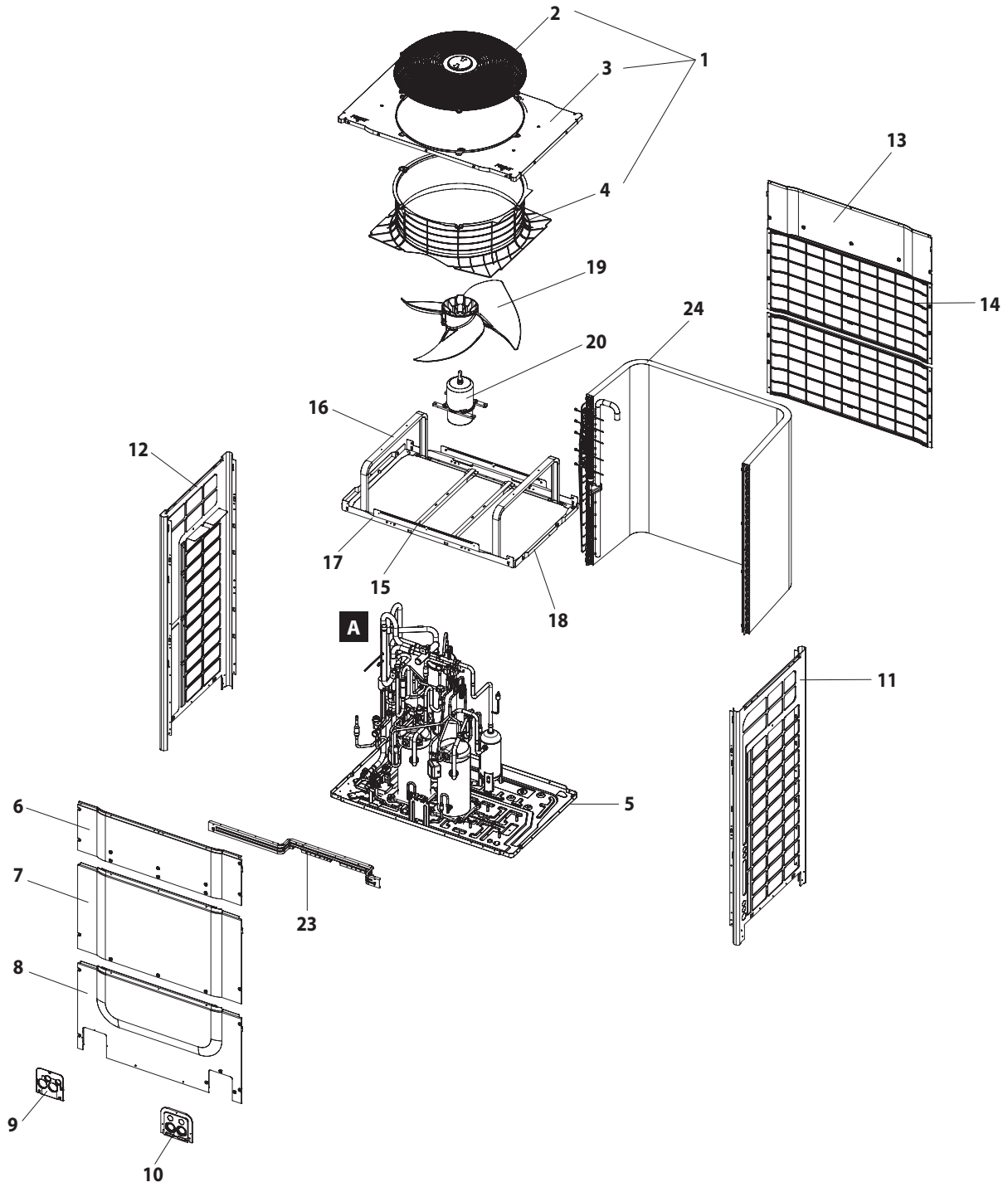
■ Parts List

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				RD075VRXFA	RD100VRXFA	
1	DB90-05485B	ASS'Y COVER-TOP	ASS'Y	1	1	SA
2	DB63-02614A	GUARD-FAN	MSWR-SWRM,TOUCH GRAY	1	1	SA
3	DB63-02618A	COVER-TOP	EGI-SECC,T1.2,TOUCH GRAY	1	1	SA
4	DB62-03304B	BELLOW-MOUTH	PP,TOUCH GRAY	1	1	SA
5	DB90-02141A	ASS'Y BASE COMP	ASS'Y	1	1	SNA
6	DB90-02121E	ASS'Y CABI FRONT-UP 10HP	ASS'Y	1	1	SA
7	DB90-02122C	ASS'Y CABI FRONT-MID 10HP	ASS'Y	1	1	SA
8	DB90-02123B	ASS'Y CABI FRONT-LOW	ASS'Y	1	1	SA
9	DB63-01921A	COVER-VALVE	PP,TOUCH GRAY	1	1	SA
10	DB63-01441A	COVER-PLATE	SECC-P,t0.8,TOUCH GRAY	1	1	SA
11	DB90-04734A	ASS'Y-CABI SIDE RH	ASS'Y	1	1	SA
12	DB90-04735A	ASS'Y-CABI SIDE LF	ASS'Y	1	1	SA
13	DB90-02130D	ASS'Y CABI BACK-UP 14HP	ASS'Y	1	1	SA
14	DB90-02317A	ASS'Y-GUARD COND BACK	ASS'Y	2	2	SA
15	DB90-02145C	ASS'Y BACK BEAM UP 10HP	ASS'Y	1	1	SNA
16	DB61-02255A	BRACKET MOTOR	SGCC-M,t2.0	1	1	SA
17	DB90-02143B	ASS'Y FRONT BEAM UP	ASS'Y	1	1	SNA
18	DB90-02638B	ASS'Y-PLATE BEAM SIDE LF	ASS'Y	1	1	SNA
19	DB90-04740A	ASS'Y FRONT BEAM LOW	ASS'Y	1	1	SNA
20	DB31-00298A	FAN PROPELLER	AS+G/F20%	1	1	SA
21	DB31-00330B	MOTOR FAN	UGBTEF-13LSAM02	1	1	SA
22	DB95-01456H	ASS'Y COMP-EVI (FIXED)	ZPI61KCE-TF5-496	1	1	SA
23	DB95-01468F	ASS'Y COMP-EVI (DIGITAL)	ZPJ72KCE-TF5-496	1	1	SA
24	DB96-09442B	ASS'Y COND OUT-A	ASS'Y	1	1	SA
25	DB96-14377A	ASS'Y-TUBE HOT-GAS BYPASS	ASS'Y	1	1	SA
26	DB96-14332A	ASS'Y TUBE DISCHARGE	ASS'Y	1	1	SA
27	DB96-14331A	ASS'Y TUBE-OIL RETURN	ASS'Y	1	1	SA
28	DB96-14342A	ASS'Y-ACCUMULATOR	ASS'Y	1	1	SA
29	DB96-14347A	ASS'Y TUBE SUBCOOLER	ASS'Y	1	1	SA
30	DB96-14974A	ASS'Y OIL SEPAPOTOR	ASS'Y	1	1	SA
31	DB96-14404A	ASS'Y TUBE-OIL BALANCE VALVE	ASS'Y	1	1	SA
32	DB96-14343A	ASS'Y-TUBE 4WAY LIQUID SVC VALVE	ASS'Y	1	1	SA
32-1	DB96-14344A	ASS'Y-TUBE 4WAY VALVE	ASS'Y	1	1	SA
32-2	DB96-14346A	ASS'Y-TUBE MAIN COOLING VALVE	ASS'Y	1	1	SA
32-3	DB96-14403A	ASS'Y-TUBE HR EEV	ASS'Y	1	1	SA
32-4	DB96-14419A	ASS'Y-TUBE LIQUID VALVE	ASS'Y	1	1	SA
32-5	DB96-14645A	ASS'Y-TUBE 4WAY VALVE	ASS'Y	1	1	SA
33	DB96-14351A	ASS'Y-OIL SEPA OUT A	ASS'Y	1	1	SA
34	DB96-14349A	ASS'Y TUBE-EXPANSION VALVE	ASS'Y	1	1	SA
35	DB96-14334A	ASS'Y TUBE SUCTION-PWM	ASS'Y	1	1	SA
35-1	DB96-08402A	ASS'Y TUBE PWM VALVE	ASS'Y	1	1	SA

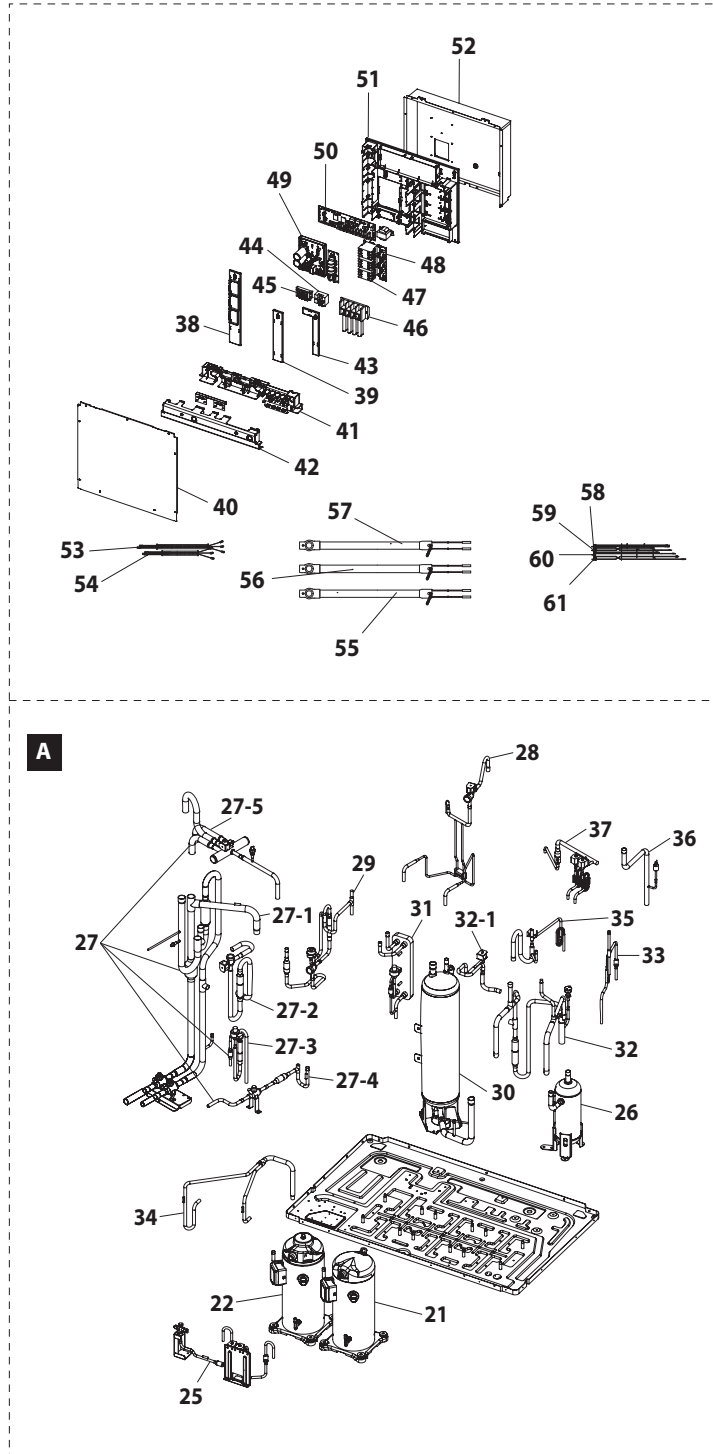
■ Parts List(cont.)

No.	Code No.	Description	Specification	Q'TY		SA/SNA
				RD075VRXFA	RD100VRXFA	
36	DB96-14316A	ASS'Y TUBE-VAPOR INJECTION	ASS'Y	1	1	SA
37	DB96-14350A	ASS'Y TUBE-LIQUID BYPASS VALVE	ASS'Y	1	1	SA
38	DB63-01361D	COVER-CONTROL IN	ABS,5V	1	1	SNA
39	DB63-01361E	COVER-CONTROL IN	ABS,5V	1	1	SNA
40	DB90-02149A	ASS'Y COVER CONTROL-BOX	ASS'Y	1	1	SA
41	DB93-07899A	ASS'Y CONTROL-WIRE LOW	ASS'Y	1	1	SA
42	DB63-02249A	COVER-CONTROL WIRE UP	ABS,5V	1	1	SNA
43	DB63-01361F	COVER-CONTROL IN	ABS,5V	1	1	SNA
44	DB65-00209B	TERMINAL BLOCK-AC	DATA 60A,AC1500V,10mA	1	1	SA
45	DB65-40062U	TERMINAL BLOCK	ASS'Y	1	1	SA
46	DB65-00232D	TERMINAL BLOCK-3PHASE	ASS'Y	1	1	SNA
47	DB35-00096A	RELAY	XMC0-5031BBC00F	2	2	SA
48	DB93-08707A	ASS'Y PCB SUB	ASS'Y	1	1	SA
49	DB93-06543K	ASS'Y-BLDC DRIVER	ASS'Y	1	1	SA
50	DB93-10733A	ASS'Y PCB MAIN-OUT	ASS'Y	1	-	SA
	DB93-10733B	ASS'Y PCB MAIN-OUT	ASS'Y	-	1	SA
51	DB90-05282A	ASS'Y CASE CONTROL IN	ASS'Y	1	1	SNA
52	DB64-01311C	CONTROL-BOX BODY	SGCC-M,t0.8	1	1	SNA
53	DB93-08105A	ASS'Y LEAD WIRE-MAIN COMP	ASS'Y	1	1	SA
54	DB93-08105B	ASS'Y LEAD WIRE-MAIN COMP	ASS'Y	1	1	SA
55	DB95-00766G	ASS'Y COMP-HEATER	ASS'Y	1	1	SA
56	DB95-00766H	ASS'Y COMP-HEATER	ASS'Y	1	1	SA
57	DB95-01425B	ASS'Y BELT HEATER	ASS'Y	1	1	SA
58	DB95-01959H	ASS'Y DISCHARGE SENSOR	ASS'Y	1	1	SA
59	DB95-01965K	ASS'Y-THERMISTOR OUTDOOR	ASS'Y	1	1	SA
60	DB95-01962C	ASS'Y-THERMISTOR OUT SUMP	ASS'Y	1	1	SA
61	DB95-01960F	ASS'Y THERMISTOR-EVI IN OUT	ASS'Y	1	1	SA

5-2-4 RD125VRXFA



RD125VRXFA(cont.)



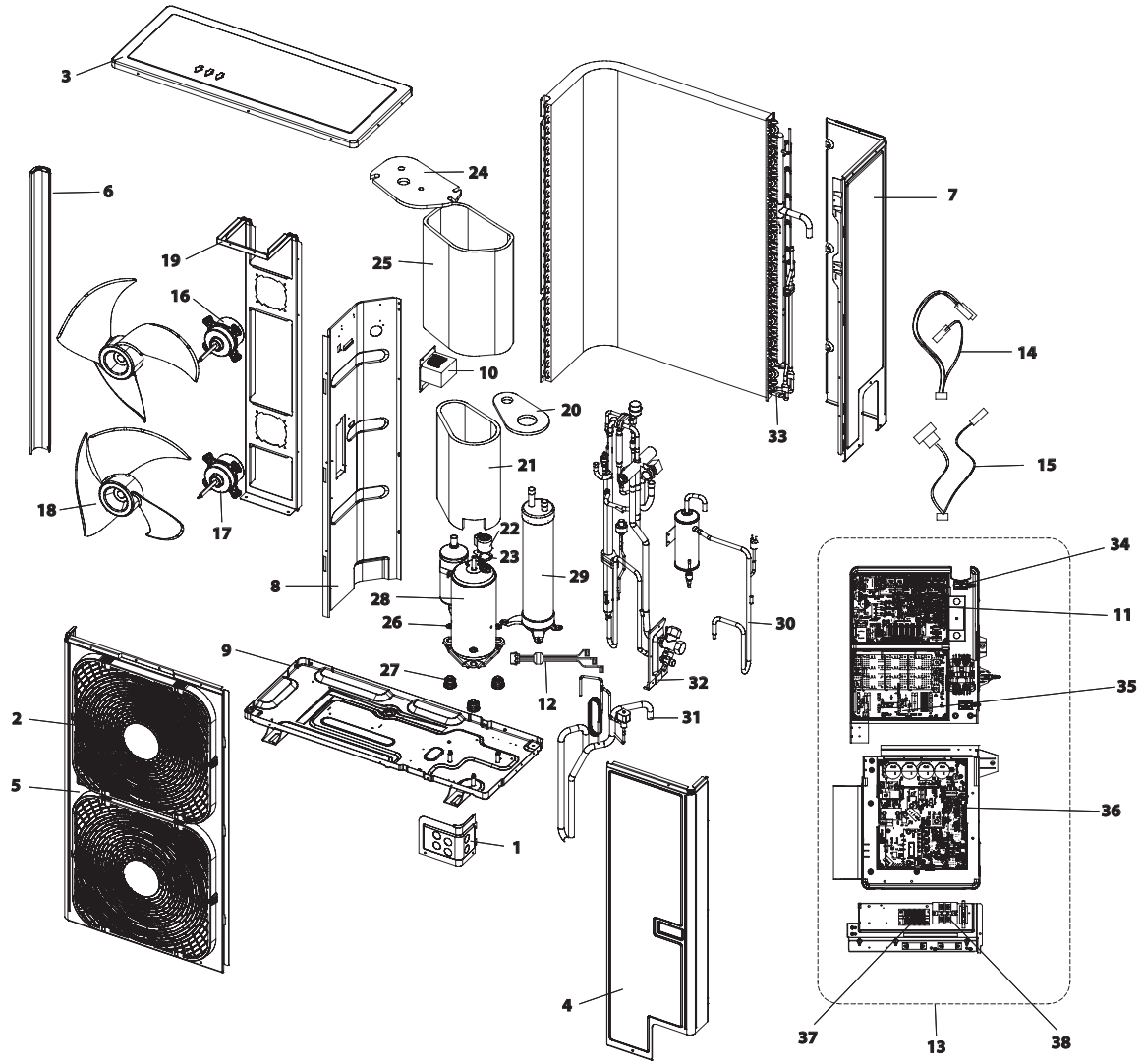
■ Parts List

No.	Code No.	Description	Specification	Q'TY	SA/SNA
1	DB63-05486B	ASS'Y COVER-TOP	ASS'Y	1	SA
2	DB63-02614A	GUARD-FAN	MSWR-SWRM,TOUCH GRAY	1	SA
3	DB63-02620A	COVER-TOP	EGI-SECC,T1.2,TOUCH GRAY	1	SA
4	DB62-03304B	BELLOW-MOUTH	PP,TOUCH GRAY	1	SA
5	DB90-04730A	ASS'Y BASE OUTDOOR	ASS'Y	1	SNA
6	DB90-02131E	ASS'Y CABI FRONT-UP	ASS'Y	1	SA
7	DB90-02132C	ASS'Y CABI FRONT-MID	ASS'Y	1	SA
8	DB90-02133B	ASS'Y CABI FRONT-LOW	ASS'Y	1	SA
9	DB63-01921A	COVER-VALVE	PP,TOUCH GRAY	1	SA
10	DB63-01441A	COVER-PLATE	SECC-P,T0.8,TOUCH GRAY	1	SA
11	DB90-04734A	ASS'Y-CABI SIDE RH	ASS'Y	1	SA
12	DB90-04735A	ASS'Y-CABI SIDE LF	ASS'Y	1	SA
13	DB90-02140D	ASS'Y CABI BACK-UP 14HP	ASS'Y	1	SA
14	DB90-02320A	ASS'Y-GUARD COND BACK	ASS'Y	2	SA
15	DB61-02255A	BRACKET MOTOR	SGCC-M,T2.0	2	SA
16	DB61-02299A	SUPPORT-TOP	SGCC-M,T1.6	2	SNA
17	DB90-02144B	ASS'Y FRONT BEAM UP	ASS'Y	2	SNA
18	DB90-02638B	ASS'Y-PLATE BEAM SIDE LF	ASS'Y	2	SNA
19	DB31-00298A	FAN PROPELLER	AS+G/F20%	1	SA
20	DB31-00330B	MOTOR FAN	UGBTEF-13LSAM02	1	SA
21	DB95-01456G	ASS'Y COMP-EVI (FIXED)	ZPI83KCE-TF5-496	1	SA
22	DB95-01468G	ASS'Y COMP-EVI (DIGITAL)	ZPJ83KCE-TF5-496	1	SA
23	DB90-04739A	ASS'Y BEAM FRONT LOW	ASS'Y	1	SA
24	DB96-09444B	ASS'Y COND OUT-C	ASS'Y	1	SA
25	DB96-14374A	ASS'Y TUBE-OIL BALANCE VALVE	ASS'Y	1	SA
26	DB96-14974A	ASS'Y-OIL SEPAPATOR	ASS'Y	1	SA
27	DB96-14366A	ASS'Y-TUBE 4WAY LIQUID SVC VV	ASS'Y	1	SA
27-1	DB96-14367A	ASS'Y-TUBE 4WAY VALVE	ASS'Y	1	SA
27-2	DB96-14369A	ASS'Y-TUBE MAIN COOLING VALVE	ASS'Y	1	SA
27-3	DB96-14715A	ASS'Y-TUBE HR EEV	ASS'Y	1	SA
27-4	DB96-14368A	ASS'Y-TUBE LIQUID SVC VALVE	ASS'Y	1	SA
27-5	DB96-14646A	ASS'Y-TUBE 4WAY SVC	ASS'Y	1	SA
28	DB96-14364A	ASS'Y TUBE-VAPOR INJECTION	ASS'Y	1	SA
29	DB96-14370A	ASS'Y TUBE-EXPANSION VALVE	ASS'Y	1	SA
30	DB96-14342A	ASS'Y-ACCUMULATOR	ASS'Y	1	SA
31	DB96-14363A	ASS'Y TUBE-SUBCOOLER	ASS'Y	1	SA
32	DB96-14375A	ASS'Y TUBE SUCTION-PWM	ASS'Y	1	SA
32-1	DB96-11441A	ASS'Y TUBE PWM VALVE	ASS'Y	1	SA
33	DB96-14331A	ASS'Y TUBE-OIL RETURN	ASS'Y	1	SA
34	DB96-14373A	ASS'Y TUBE DISCHARGE	ASS'Y	1	SA
35	DB96-14372A	ASS'Y-TUBE HOT-GAS BYPASS	ASS'Y	1	SA
36	DB96-14365A	ASS'Y-TUBE OIL SEPA OUT	ASS'Y	1	SA
37	DB96-14371A	ASS'Y-TUBE LIQUID BYPASS VALVE	ASS'Y	1	SA

■ Parts List(cont.)

No.	Code No.	Description	Specification	Q'TY	SA/SNA
38	DB63-01361D	COVER-CONTROL IN	ABS,5V	1	SNA
39	DB63-01361E	COVER-CONTROL IN	ABS,5V	1	SNA
40	DB90-02149A	ASS'Y COVER CONTROL-BOX	ASS'Y	1	SA
41	DB93-07899A	ASS'Y CONTROL-WIRE LOW	ASS'Y	1	SA
42	DB63-02249A	COVER-CONTROL WIRE UP	ABS,5V	1	SNA
43	DB63-01361F	COVER-CONTROL IN	ABS 5V	1	SNA
44	DB65-00209B	TERMINAL BLOCK-AC	DATA 60A,AC1500V,10mA	1	SA
45	DB65-40062U	TERMINAL BLOCK	ASS'Y	1	SA
46	DB65-00232D	TERMINAL BLOCK-3PHASE	ASS'Y	1	SNA
47	DB35-00096A	RELAY	XMCO-503IBBC00F	2	SA
48	DB93-08707A	ASS'Y PCB SUB	ASS'Y	1	SA
49	DB93-06543K	ASS'Y-BLDC DRIVER	ASS'Y	1	SNA
50	DB93-10733C	ASS'Y PCB MAIN-OUT	ASS'Y	1	SA
51	DB90-05282A	ASS'Y CASE CONTROL IN	ASS'Y	1	SNA
52	DB64-01311C	CONTROL-BOX BODY	SGCC-M,T0.8	1	SNA
53	DB93-08105C	ASS'Y LEAD WIRE-MAIN COMP	ASS'Y	1	SA
54	DB93-08105D	ASS'Y LEAD WIRE-MAIN COMP	ASS'Y	1	SA
55	DB95-00766G	ASS'Y COMP-HEATER	ASS'Y	1	SA
56	DB95-00766H	ASS'Y COMP-HEATER	ASS'Y	1	SA
57	DB95-01425A	ASS'Y BELT HEATER	ASS'Y	1	SA
58	DB95-01959J	ASS'Y DISCHARGE SENSOR	ASS'Y	1	SA
59	DB95-01965L	ASS'Y-THERMISTOR OUTDOOR	ASS'Y	1	SA
60	DB95-01962D	ASS'Y-THERMISTOR OUT SUMP	ASS'Y	1	SA
61	DB95-01960G	ASS'Y THERMISTOR-EVI IN OUT	ASS'Y	1	SA

5-2-5 RD040/050MHXCA



Parts List(RD040/050MHXCA)

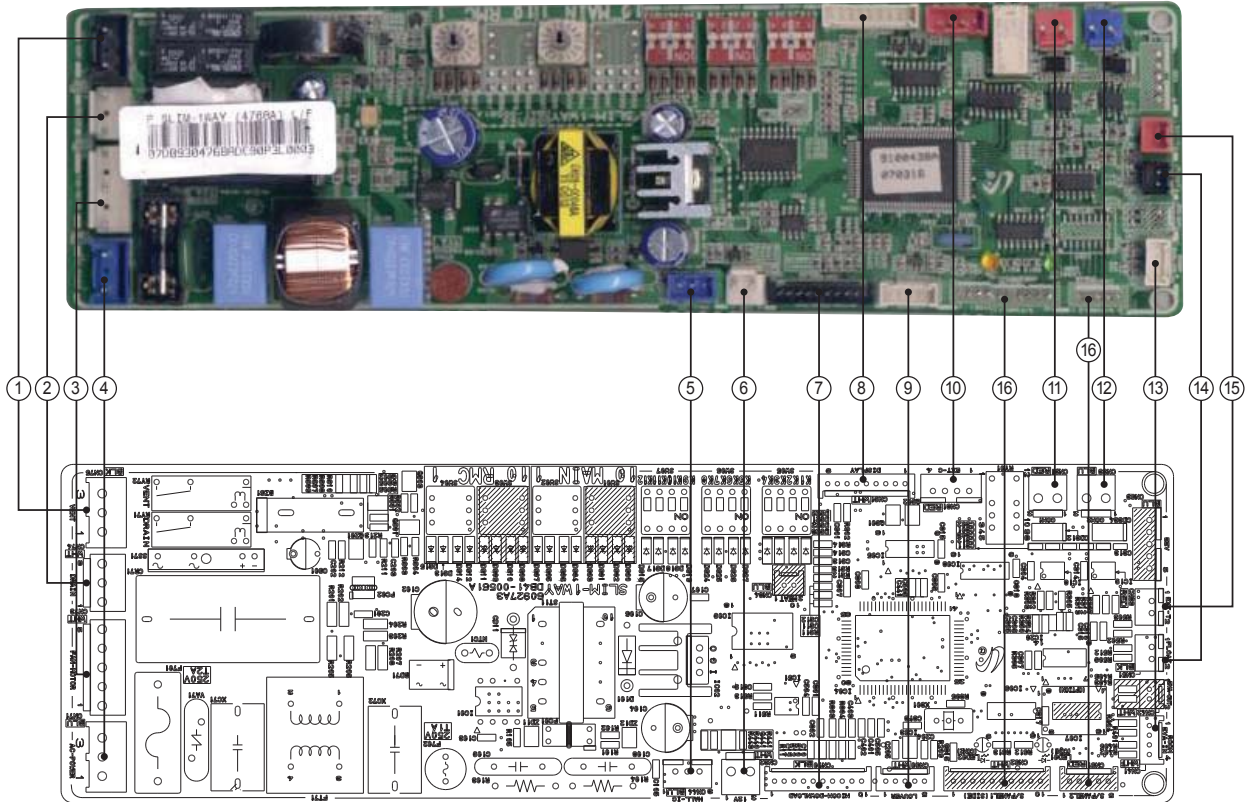
No.	Code No.	Description	Specification	Q'TY		SA/SNA
				040	050	
1	DB61-01910B	BRACKET-WIRE PAINT	SECC-P,T1.0	1	1	SA
2	DB63-02226B	GUARD FAN	COMPOSITE PP,WHT	2	2	SNA
3	DB90-01533B	ASS'Y CABINET-TOP COVER	SECC-P,T0.8	1	1	SA
4	DB90-01534E	ASS'Y CABI FRONT RH	SECC-P,T0.8	1	1	SNA
5	DB90-01535C	ASS'Y CABI FRONT-LF	SECC-P,T0.8	1	1	SNA
6	DB90-01588A	ASS'Y CABI BACK-LF	SECC-P,T1.2	1	1	SA
7	DB90-01637C	ASS'Y CABI BACK-RH	SECC-P,T0.8	1	1	SA
8	DB94-02156A	ASS'Y PARTITION	SGCC-M,T0.8	1	1	SNA
9	DB99-00538G	ASS'Y-CABI BASE PART	SECC-P,T1.6	1	1	SA
10	DB27-00065A	COIL CHOKE-REACTOR	RIXBHF040B1,4.4mH,	1	1	SA
11	DB61-03566A	PLATE-CONTROL UP	SGCC-M,T1.0	1	1	SA
12	DB93-07574A	ASS'Y CONNECTOR WIRE-COMP	ASS'Y	1	1	SA
13	DB93-08257G	ASS'Y CONTROL OUT	ASS'Y	1	1	SA
14	DB95-02026A	ASS'Y THEMISTOR-COND OUT	ASS'Y	1	1	SNA
15	DB95-02027A	ASS'Y THEMISTOR-TSO OLP TSC DIS	ASS'Y	1	1	SNA
16	DB31-00512D	MOTOR FAN	FMBC531SSF1,600mA,60Hz	1	1	SNA
17	DB31-00512E	MOTOR FAN	FMBC531SSG,600mA,60Hz	1	1	SNA
18	DB67-00861A	FAN-PROPELLER	AS+GF20%,460,3FAN	2	2	SA
19	DB90-04482A	ASS'Y BRACKET MOTOR	SGCC-M, T2.0	1	1	SNA
20	DB63-02260A	FELT-TOP COVER A	FELT+PVC+FELT	1	1	SNA
21	DB63-02259A	FELT-COMP SOUND A	FELT+PVC+FELT	1	1	SNA
22	DB63-02280A	COVER TERMINAL	NORYL SE1-701, BLK	1	1	-
23	DB63-02281A	GASKET	55F TBR,EPDM RUBBER,T0.8	1	1	-
24	DB63-02282A	FELT-TOP COVER B	FELT+PVC+FELT	1	1	SNA
25	DB63-02283A	FELT-COMP SOUND B	FELT+PVC+FELT	1	1	SNA
26	DB60-30028A	SCREW HEX	-	3	3	SNA
27	DB63-02331A	GROMMET ISOLATOR	NR,BLACK	3	3	SNA
28	G5T450FUCEX-SS	TWIN BLDC COMPRESSOR	G5T450FUCEX-SS	-	1	-
	G5T360FUCEK-SS	TWIN BLDC COMPRESSOR	G5T360FUCEK-SS	1	-	-
29	DB90-01924B	ASS'Y-ACCUMULATOR	ASS'Y	1	1	SNA
30	DB96-11468A	ASS'Y TUBE DISCHARGE	ASS'Y	-	1	SNA
	DB96-11468B	ASS'Y TUBE DISCHARGE	ASS'Y	1	-	SNA
31	DB96-11469A	ASS'Y TUBE SUCTION	ASS'Y	-	1	SNA
	DB96-11469B	ASS'Y TUBE SUCTION	ASS'Y	1	-	SNA
32	DB99-01034B	ASS'Y VALVE	ASS'Y	1	1	SNA
33	DB96-11474A	ASS'Y COND UNIT	ASS'Y	-	1	SNA
	DB96-11618A	ASS'Y COND UNIT	ASS'Y	1	-	SNA
34	DB93-07456C	ASS'Y PCB MAIN OUT	ASS'Y	1	1	SA
35	DB93-08299A	ASS'Y PCB SUB EMI	ASS'Y	1	1	SA
36	DB93-07458M	ASS'Y PCB MAIN OUT INVERTER	ASS'Y	-	1	SA
	DB93-07458N	ASS'Y PCB MAIN OUT INVERTER	ASS'Y	1	-	SA
37	DB65-00253R	TERMINAL BLOCK	ASS'Y	1	1	SA
38	DB65-00260C	TERMINAL BLOCK	ASS'Y	1	1	SA

6. PCB Diagram

6-1 Indoor Unit

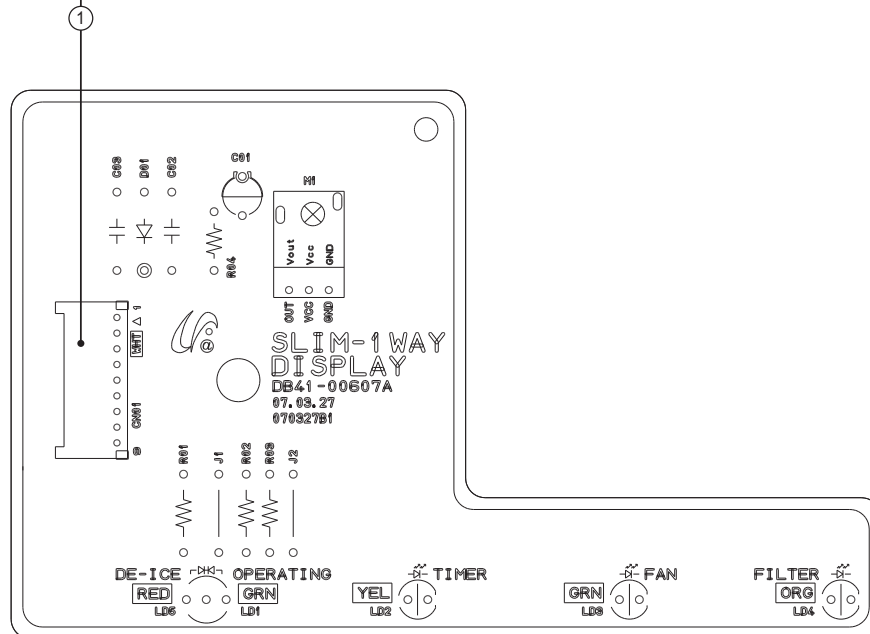
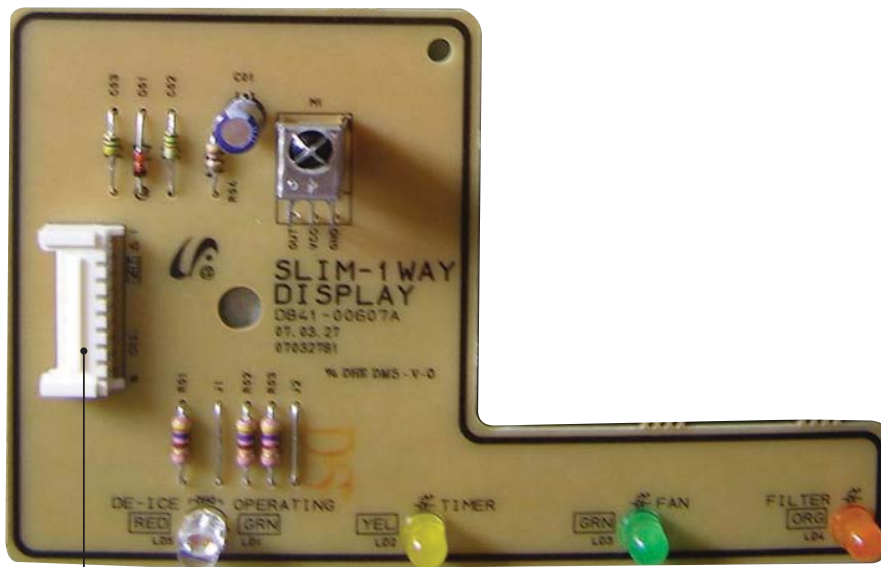
6-1-1 Slim 1 way cassette type

■ MAIN PCB



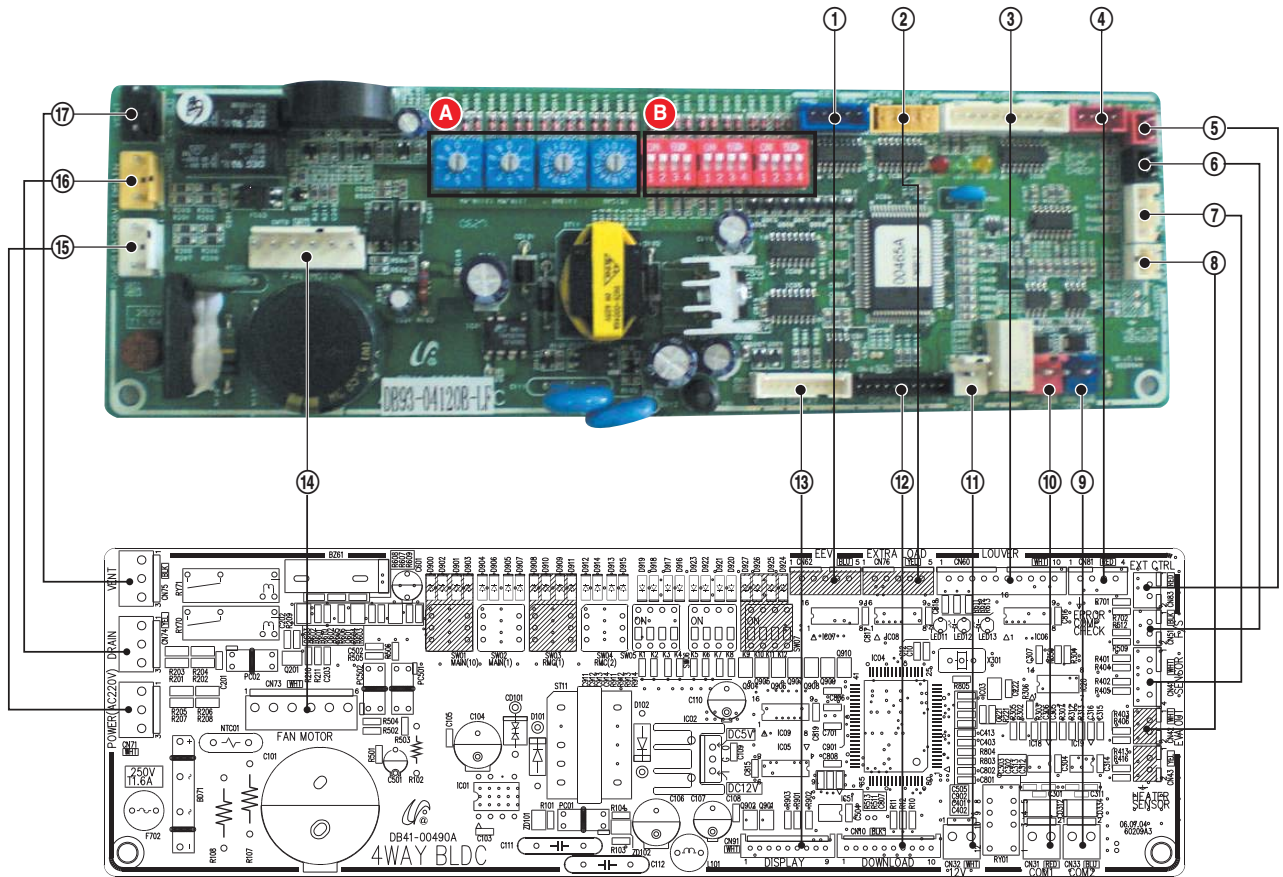
<p>① CN74-Ventilator</p>	<p>② CN74- Drain Pump</p>	<p>③ CN73- Fan Motor #1: Input Operating Capacitor Motor #2, #4: No used #3: Motor Control Signal #5: N phase Boltage</p>	<p>④ CN71-AC Power #1: L phase #2: N phase</p>
<p>⑤ CN44- RPM Feedback #1: 5V input #2: GND #3: Hall IC output</p>	<p>⑥ CN32-Remocon DC12V #1: DC12V #2: GND</p>	<p>⑦ CN10-Micom Download</p>	<p>⑧ CN91-Display #1~5: LED Control #6: AUTO_S/W #7: Remocon_Signal #8: GND #9: VCC</p>
<p>⑨ CN60-Louver #1: DC12V #2~5: Louver control</p>	<p>⑩ CN81-External Control Out #1, #3: DC12V #2: Error CHK Out #4: Comp. CHK Out</p>	<p>⑪ CN31- Indoor/Outdoor Unit Communication #1: Comm. Signal F1 #2: Comm. Signal F2</p>	<p>⑫ CN33- Wred Remote Controller Communication #1: Comm. Signal F3 #2: Comm. Signal F4</p>
<p>⑬ CN41- Temp. sensor #1: ROOM Temp. Sensor #2: GND #3: EVA IN Temp. sensor #4: GND</p>	<p>⑭ CN51-FLOAT S/W #1: GND #2: Float S/W</p>	<p>⑮ CN83- External Control #1: On/off Contact point input #2: GND</p>	<p>⑯ CN61, CN62-Slide Panel #1,6: DC12V #2~5: Motor Control #7~10: Not used</p>

■ Panel



<p>DC connecting connector</p>	<p>① CN01 : Connect the Main PBA of the Indoor Unit #1~5 : Control Display LED #6 : Not used #7 : Receive signals from wireless remote controller #8 : GND #9 : VCC (DC5V)</p>
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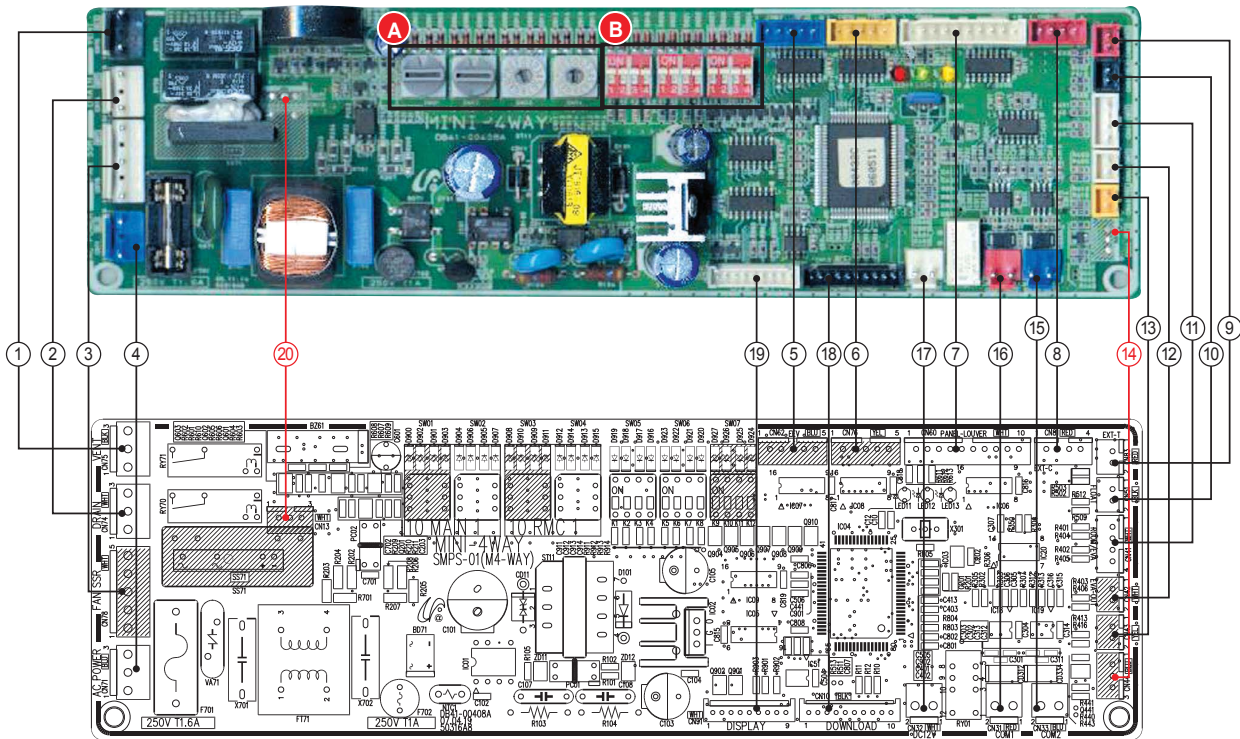
6-1-2 4 way cassette type



<p>① CN62-EEV</p> <p>#1~4 : EEV Control Singal #5: DC12V</p>	<p>② CN76-EXTERNAL OPTION</p> <p>#1: 12V #2: LOAD 1 #3: LOAD 2 #4: LOAD 3</p>	<p>③ CN60-LOUVER</p> <p>#1~5: Step Motor #6~10: Step Motor</p>	<p>④ CN81-EXTERNAL CHECK</p> <p>#1: DC12V #2: Error Check Signal #3: DC12V #4: Comp Check Signal</p>
<p>⑤ CN83-EXTANAL CONTROL</p> <p>#1: GND #2: External control Signal</p>	<p>⑥ CN51-FLOAT S/W</p> <p>#1: GND #2: FLOAT-SW Signal</p>	<p>⑦ CN41-ROOM/EVA, IN</p> <p>#1: Room Th Sensor #2: GND #3: EVA IN Th Sensor #4: GND</p>	<p>⑧ CN42-EVA, OUT TEMP SENSOR</p> <p>#1: GND #2: EVA OUT Th Sensor</p>
<p>⑨ CN33-Comm2 (Wired Remote F3/F4)</p> <p>#1: Communication F3 #2: Communication F4</p>	<p>⑩ CN31-Comm1(Indoor F1/F2)</p> <p>#1: Communication F1 #2: Communication F2</p>	<p>⑪ CN32-Remote Control DC12</p> <p>#1: DC12V #2: GND</p>	<p>⑫ CN10-MICOM DOWNLOAD</p>
<p>⑬ CN91-Display</p> <p>#1~5: Display Control Signal #7: Remote Sihnal Receive #8: GND #9: VCC(DC5V)</p>	<p>⑭ CN73-BLDC FAN MOTOR</p> <p>#1: DV310V #2: N/C #3: GND #4: DC15V #5: Motor Control Signal #6: Motor Feedback Signal</p>	<p>⑮ CN71-MAIN POWER</p> <p>#1: L Phase #2: N Phase</p>	<p>⑯ CN74-DRAIN MOTOR OUTPUT</p> <p>#1: N Phase #2: Drain Pump Control</p>
<p>⑰ CN75-VENTILATOR OUTPUT</p> <p>#1: N Phase #2: Ventilator Control</p>			

6-1-3 Mini 4 way cassette type

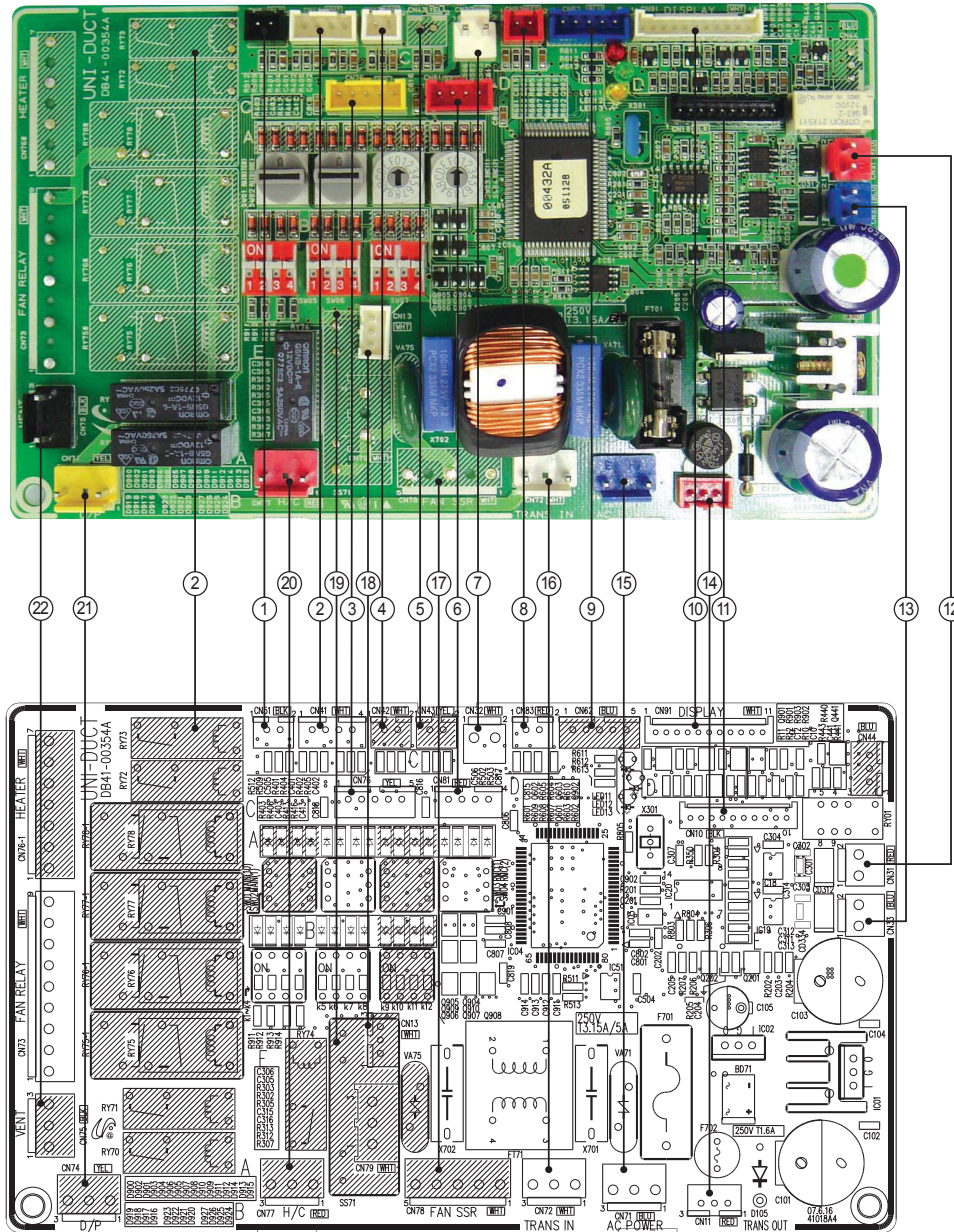
⚠ The red number connector is not used



① CN75-Ventilator	② CN74- Drain pump	③ CN73- Fan Motor #1 Input Operating Capacitor Motor #2, #4: Not Used #3: Motor Control Signal #5: N phase Voltage	④ CN71-AC power #1: L phase #2: N phase
⑤ CN62- Electrically Operated Valve Control #1~4: Electrically Operated Valve Control #5: DC12V	⑥ CN76-SUB PCB Connection	⑦ CN60-Louver #1, #6: DC12V #2~5, #7~10: LOUVER control	⑧ CN81-External Control Out #1,3: DC12V #2: Error CHK Out #4: Comp. CHK Out
⑨ CN83- External Control OUT #1: GND #2: EXT_CTRL Output	⑩ CN51-Float S/W #1: GND #2: Float S/W	⑪ CN41- Temp. Sensor #1: Room Temp. Sensor #2: GND #3: EVA IN Temp. sensor #4: GND	⑫ CN42- Temp. Sensor #1: EVA Out Thermistor #2: GND
⑬ CN43- Heter Discharge Temp #1: GND #2: Heater Discharge Output	⑭ CN44- RPM Feedback #1: 5V input #2: GND #3: Hall IC output	⑮ CN33-Wired Remocon Comm. #1: Comm. Signal F3 #2: Comm. Signal F4	⑯ CN31- Indoor/outdoor Unit Communication #1: Comm. Signal F1 #2: Comm. Signal F2
⑰ CN32-Remocon DC12V #1: DC12V #2: GND	⑱ CN10-Micom Download	⑲ CN91-Display #1~5: LED Control #6: AUTO_S/W #7: REMOCON_SIGNAL #8: GND #9: VCC	⑳ CN13-SSR Fan Control #1 : DC12V #2: FAN SSR OUT

6-1-4 Duct type(Slim)

■ MAIN PCB



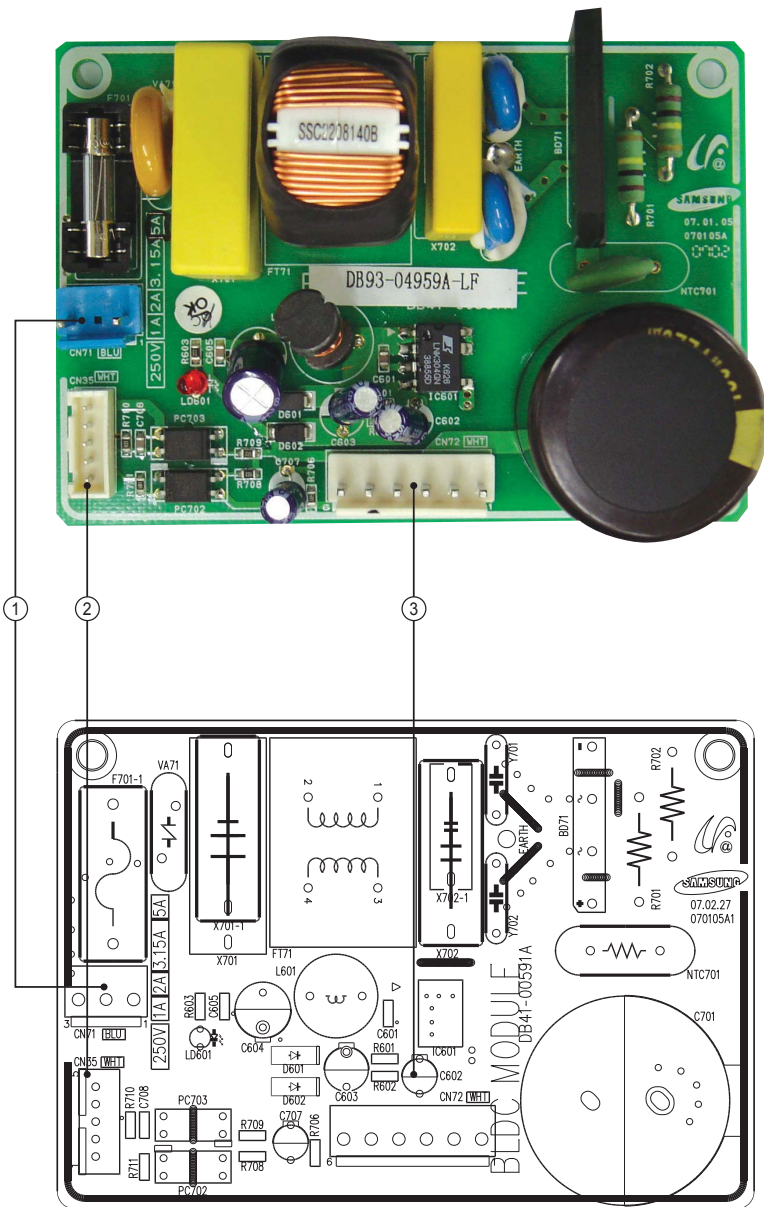
Duct type(Slim)(cont.)

MAIN PCB(cont.)

① CN51- Floating Switch #1: GND #2: Floating Switch signal	② CN41- ROOM/EVA, IN Temp. Sensor #1: ROOM Temp. Sensor #2: GND #3: EVA IN Temp. sensor #4: GND	③ CN76-SUB PCB Connector #1: FAN LOW Signal (AC 220V L phase output) #2: FAN MID Signal (AC 220V L phase output) #3: FAN HIGH Signal (AC 220V L phase output)	④ CN42- ROOM/EVA, OUT Temp. Sensor #1: EVA OUT Temp. Sensor #2: GND
⑤ CN43- CCH Temp. sensor #1: GND #2: Heater Discharge Temp. Sensor Signal	⑥ CN81- External CHECK #1: DC12V #2: ERROR CHK signal #3: DC12V #4: COMP CHK signal	⑦ CN32-Wire Remocon Power #1: DC12V #2: GND	⑧ CN83- External Control #1: GND #2: External Control signal point input
⑨ CN62-EEV #1~#4: EEV Control Signal #2: DC12V	⑩ CN91-Display #1,#2: Buzz control #3~#7: Display control #8:Operating switch #9: Remocon receiving signal #10:GND #11: DCSV	⑪ CN10-Micom Download	⑫ CN31- Communication (indoor unit F1/F2) #1: Comm. Signal F1 #2: Comm. Signal F2
⑬ CN33- Communication2 (Wired remocon F1/F2) #1: Comm. Signal F3 #2: Comm. Signal F4	⑭ CN11-Trans Out #1,3: Trans OUtput connect	⑮ CN71-AC power #1: AC Power L #2: AC Power N	⑯ CN72-Trans In #1: AC Power L #2: AC Power N
⑰ None	⑱ CN13-BLDC PCB Connector #1: DC12V #2: Fan Control Signal	⑲ None	⑳ CN77-Heated water coil #1: N phase #2: heated water coil signal
㉑ CN74- Drain Pump #1: N phase #2: Drain signal	㉒ CN75- Ventilator #1: N phase #2: Ventilator signal		

Duct type(Slim)(cont.)

■ SUB PCB



<p>① CN71-AC Input #1: AC Power L #2: AC Power N</p>	<p>② CN35- MAIN PCB Connection #1: ROOM Temp. Sensor #2: GND #3: EVA IN Temp. sensor #4: GND</p>	<p>③ CN72- FAN Motor output #1: DC310V #2: not used #3: GND #4: DC15V #5: Motor Control signal #6: Motor Feedback Signal</p>
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MEMO

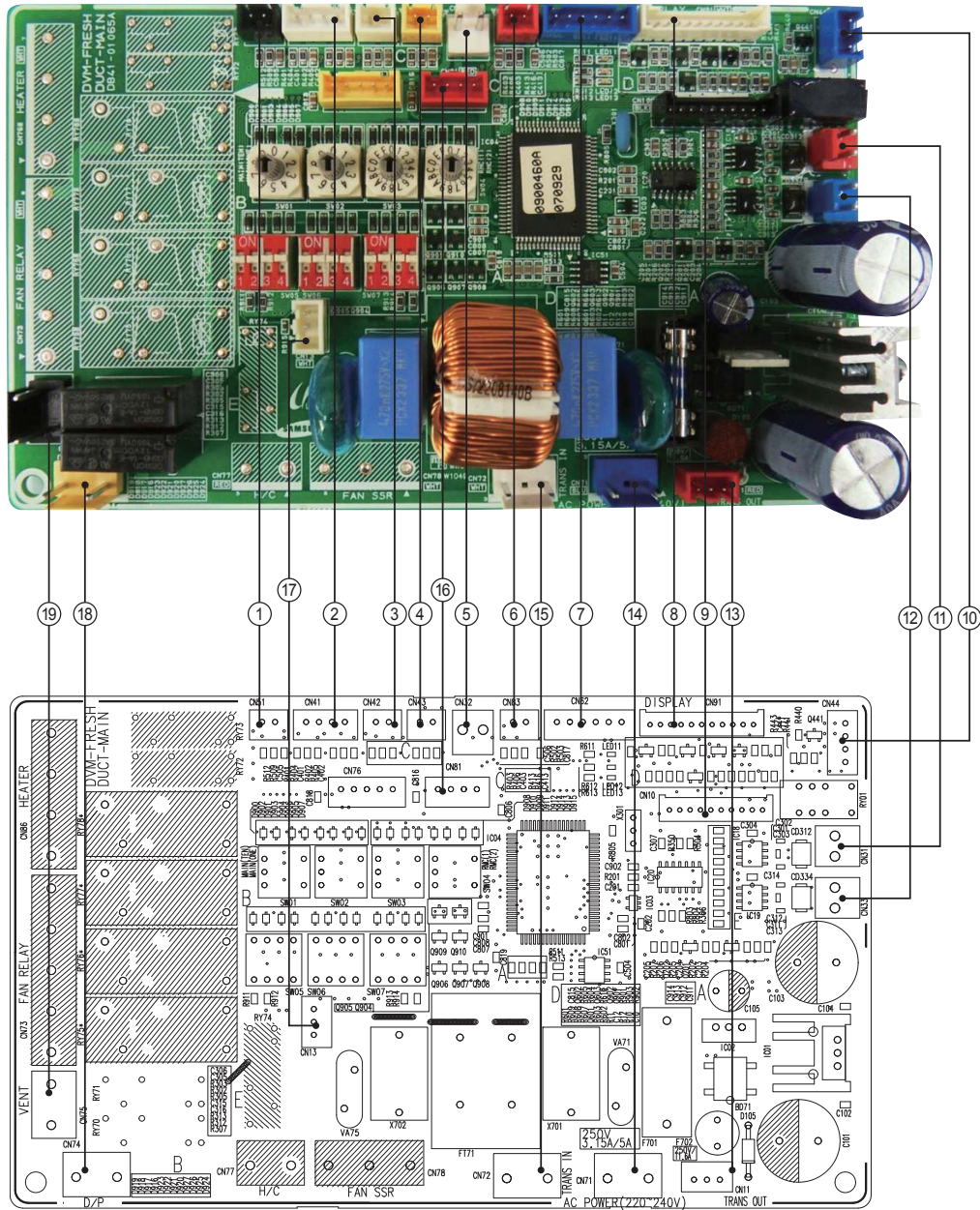
Duct type(MSP)(cont.)

MAIN PCB(cont.)

① CN51- Float Switch #1: GND #2: Float Switch	② CN41- Temp. Sensor #1: ROOM Temp. Sensor #2: GND #3: EVA IN Temp. sensor #4: GND	③ CN42- Temp. Sensor #1: GND #2: EVA OUT Temp. Sensor	④ CN43- Heater Discharge #1: GND #2: Discharge. Sensor
⑤ CN32- Wired Remocon Power #1: 12V #2: GND	⑥ CN83- External Control #1: GND #2: External Control signal point input	⑦ CN62- EEV #1~#4: Electrically operated valve Control Signal #2: 12V	⑧ CN91- Display #1,#2: Buzz control #3~#7: Display control #8: Operating switch #9: Remocon receiving signal #10: GND #11: DCSV
⑨ CN10- Micom Download	⑩ CN31- Indoor/outdoor unit Communication #1: Comm. Signal F1 #2: Comm. Signal F2	⑪ CN33- Wired Remocon Communication #1: Comm. Signal F3 #2: Comm. Signal F4	⑫ CN76- Subsidial Load
⑬ CN81- External Control Check #1:12V #2: ERROR CHK #3: 12V #4: COMP CHK	⑭ CN11-Trans Out #1,3: TRANS outpu connection	⑮ CN71-AC Power #1: L phase #3: N phase	⑯ CN72-Trans In #1: AC power L #3: AC power N
⑰ CN78- FAN Motor Output #1: N phase output #3: SSR Control signal (L phase) #5: N phase output	⑱ CN79-SSR Output #1: SSR Output #3: SSR luput	⑲ CN13-SSR control #1: 12V #3: Control Signal	⑳ CN77-Heated Water Coil #1: N phase #2: heated water coil signal
㉑ CN74- Drain Pump #1: N phase #2: Drain pump signal	㉒ CN75- Ventilator #1: N phase #2: Ventilator signal		

6-1-6 Duct type(BIG)

■ MAIN PCB



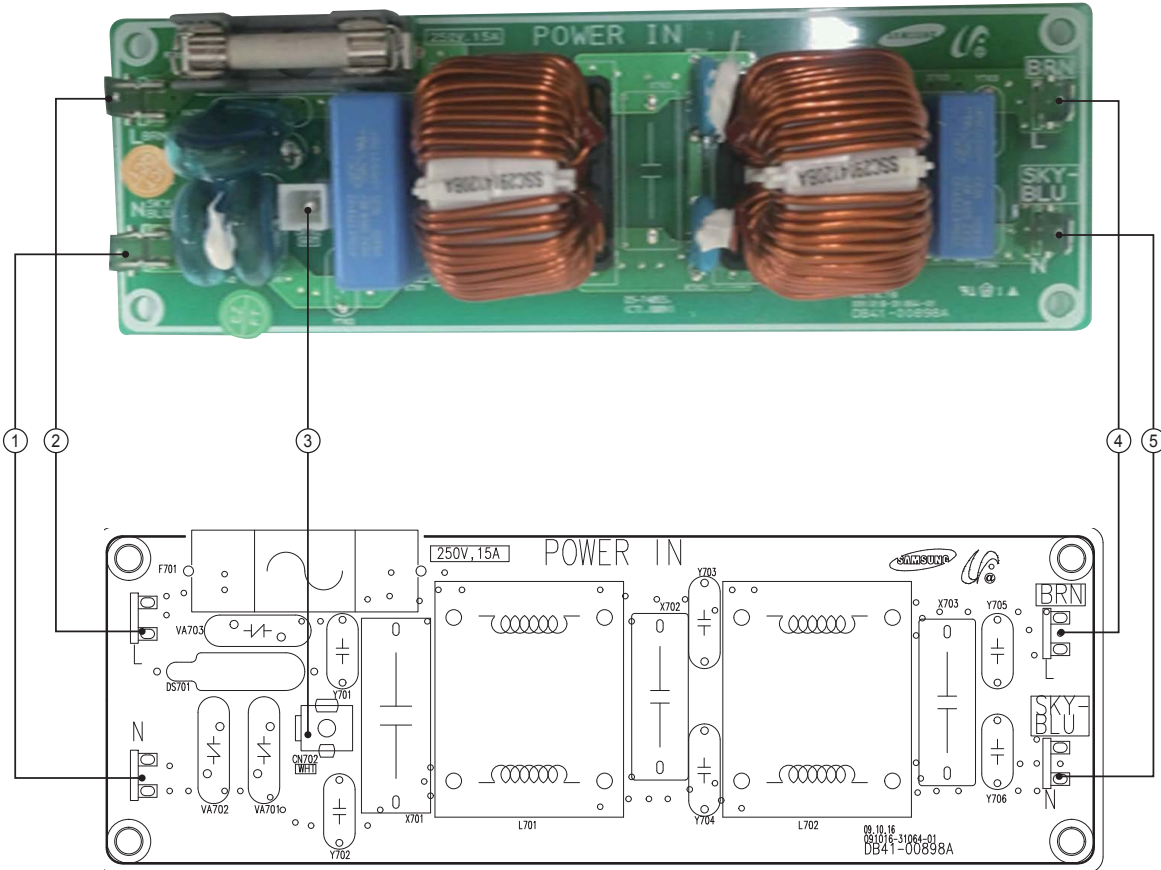
Duct type(BIG) (cont.)

■ MAIN PCB(cont.)

① CN51-Floating Switch #1 : GND #2 : Floating Switch Signal	② CN41-Room/Eva In Temp. Sensor #1 : Room Temp. Sensor #2 : GND #3 : EVA In Temp. Sensor #4 : GND	③ CN42-Eva Out Temp. Sensor #1 : EVA OUT Temp. Sensor #2 : GND	④ CN43-Discharge Temp. Sensor #1 : Discharge Temp. Sensor #2 : GND
⑤ CN32-Wired Remocon Power #1 : DC12V #2 : GND	⑥ CN83-External Control #1 : GND #2 : External Control Signal Input	⑦ CN62-EEV #1~#4 : EEV Control Signal #5~#6 : DC 12V	⑧ CN91-Display #1,#2 : Buzzer Control #3~#7 : Display Control #8 : Operating Switch #9 : Remocon Receiving Signal #10 : GND #11 : DC5V
⑨ CN10-Micom Downlaod	⑩ CN44-Motor Feedback #1 : DC5V #2 : GND #3 : Feedback Signal # : Inrush	⑪ CN31- Communication(Outdoor) #1 : Comm. Signal F1 #2 : Comm. Signal F2	⑫ CN32-Communicatio(Remocon) #1 : Comm. Signal F3 #2 : Comm. Signal F4
⑬ CN11-Trans Out #1,#3 : Trans Output	⑭ CN71-AC Power #1 : AC Power L #2 : AC Power N	⑮ CN72-Trans In #1 : AC Power L #2 : AC Power N	⑯ CN81-External CHECK #1 : DC12V #2 : Error Check Signal #3 : DC12V #4 : Comp Check Signal
⑰ CN13-BLDC PCB Connector #1 : DC12V #3 : Fan Control Signal	⑱ CN74-Drain Pump #1 : N phase #2 : Drain Pump Signal	⑲ CN75-Ventilator #1 : N Phase #2 : Ventilator Signal	

Duct type(BIG) (cont.)

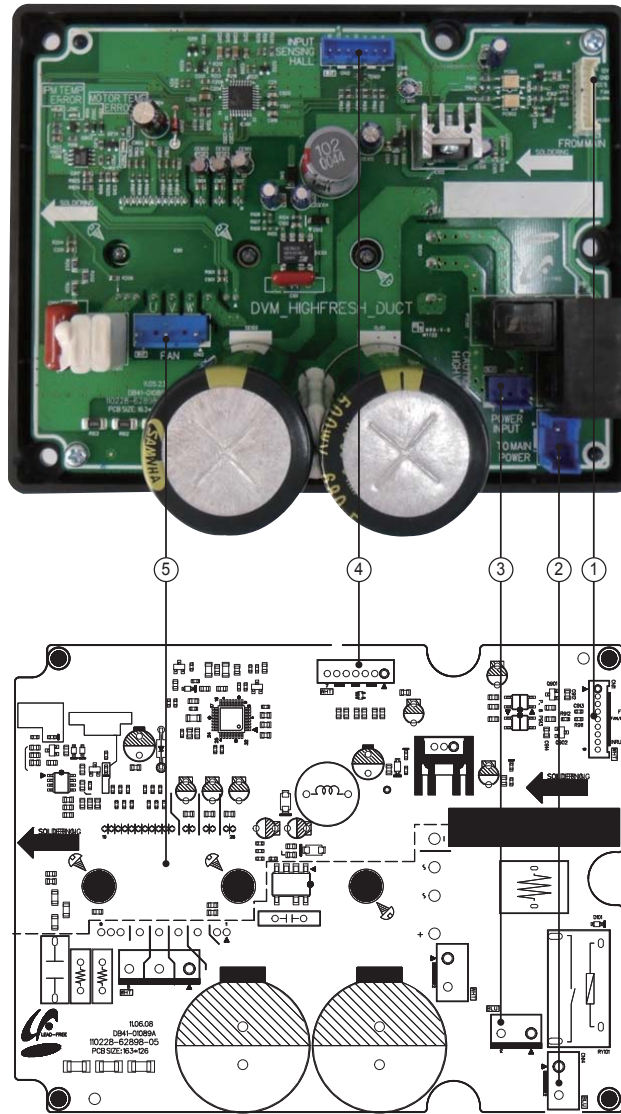
■ EMI PCB



① Power Input L	② Power Input N	③ Earth	④ Power Output L
⑤ Power Output N			

Duct type(BIG) (cont.)

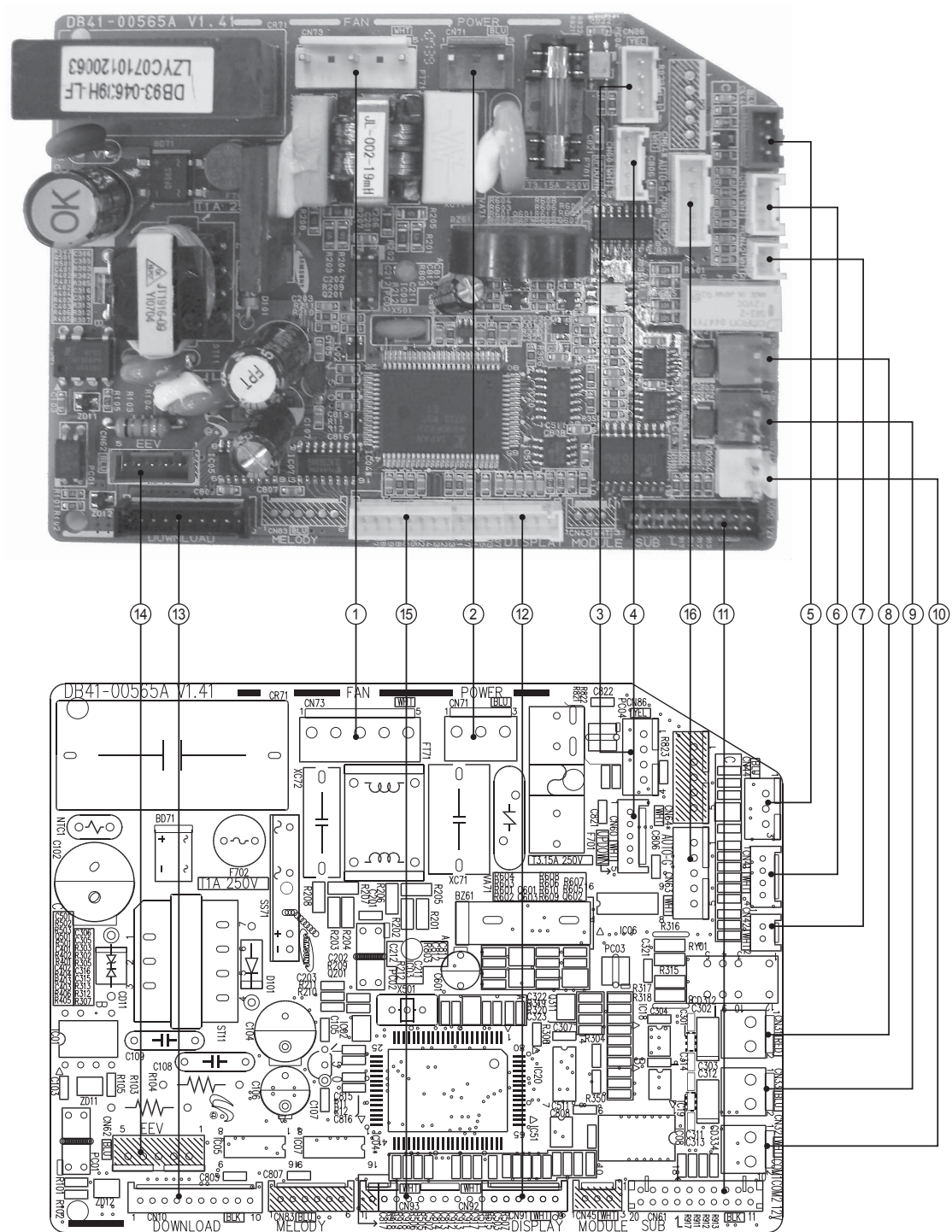
■ BLDC PCB



<p>① CN11-Main PCB Connection</p> <p>#1 : DC12V #2 : GND #3 : DC5V #4 : FAN Signal #5 : FAN RPM #8 : Inrush</p>	<p>② CN14-AC Power</p> <p>#1 : AC Power L #2 : AC Power N</p>	<p>③ 10-AC Power</p> <p>#1 : AC Power L #2 : AC Power N</p>	<p>④ CN12-Motor DC Connector</p> <p>#1,#3,#5 : U,V,W Feedback #2 : DC5V #4 : GND #6 : Motor Temperature #7 : GND</p>
<p>⑤ CN13-Motor Control</p> <p>#1 : U #2 : V #3 : W</p>			

6-1-7 Wall-mounted type(Neo Forte without EEV)

■ MAIN PCB



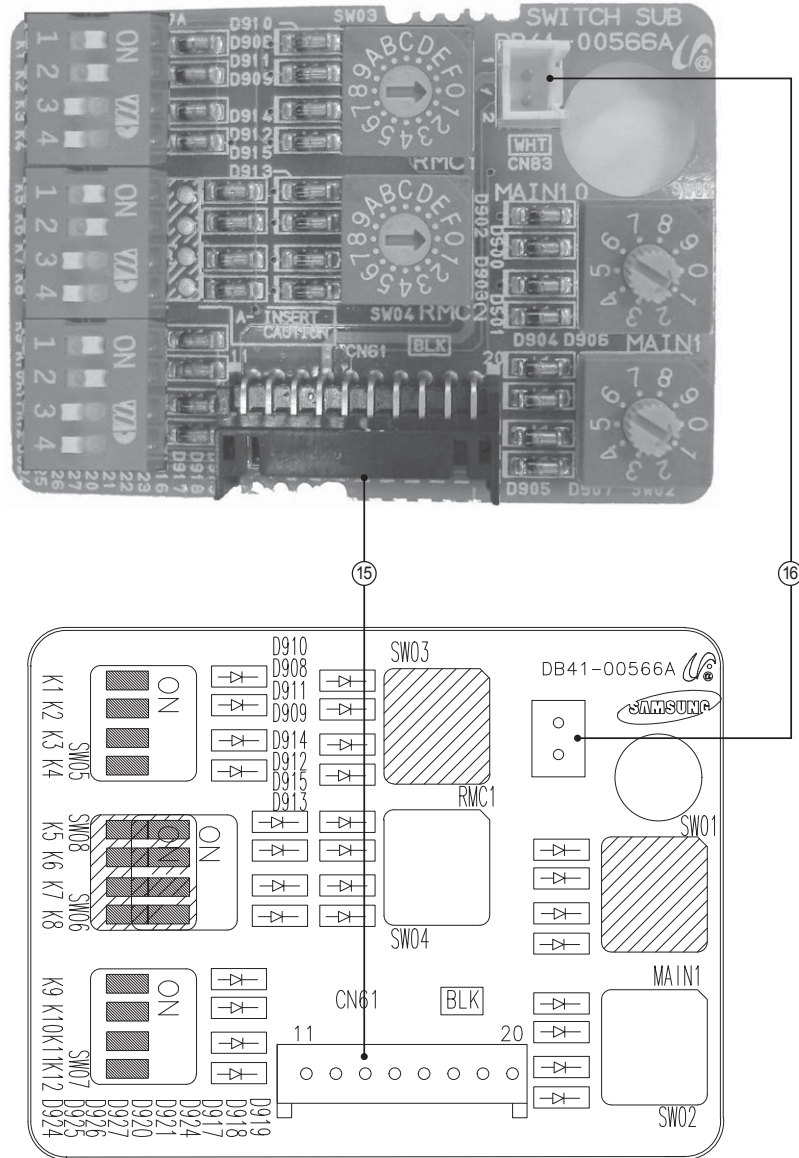
Wall-mounted type(Neo Forte without EEV)(cont.)

MAIN PCB(cont.)

<p>① CN73-Fan Motor #1: Input Operating Capacitor Motor #2,#4: Not Used #3: Motor Control Signal #5: N Phase Voltage</p>	<p>② CN71-AC Power #1: L Phase #2: N Phase</p>	<p>③ CN82- MPI(Not Used) #1: MPI - #2: MPI + #3: 12V #4: MPI feedback</p>	<p>④ CN60-Up/Down Louver #1: DC12V #2,#3,#4: Louver Control Signal</p>
<p>⑤ CN52- RPM Feedback #1: DC5V #2: GND #3: Hall IC Input</p>	<p>⑥ CN41- Temp. Sensor #1: Room Temp. Sensor #2: GND #3: EVA IN Temp. sensor #4: GND</p>	<p>⑦ CN42 - Temp. Sensor #1: EVA Out Thermistor #2: GND</p>	<p>⑧ CN31- Indoor/Outdoor Unit Communication #1: Comm. Signal F1 #2: Comm. Signal F2</p>
<p>⑨ CN33- Communication 2 (REMOCON) #1: Comm. Signal F3 #2: Comm. Signal F4</p>	<p>⑩ CN32- Wired Remocon Power #1: 12V #2: GND</p>	<p>⑪ CN61-Option Setup Sub Board Connection #1~10,#20: Option Switch Address Signal #11~14: GND #15: External Control Signal #16: Comp Check Signal #17,#19: 12V #18: Error Check Signal</p>	<p>⑫ CN92-Display #1: Display Control #3: Operating switch #4: 5V #5: Remocon Receiver signal #6: GND</p>
<p>⑬ CN10-Micom Download</p>	<p>⑭ CN62-EEV(Not used) #1~4: EEV control Signal #5: 12V</p>	<p>⑮ CN93-Display #1~4: Electrically Operated Valve Signal #5: 12V</p>	<p>⑯ CN63-Auto Grille #1: 12V #2~#5: Auto Grille Control</p>

Wall-mounted type(Neo Forte without EEV)(cont.)

■ SUB SWITCH



No.	CN #	COLOR	FUNCTION
15	CN61	Black	Main-Sub PCB Connector
16	CN83	White	External Contact Control

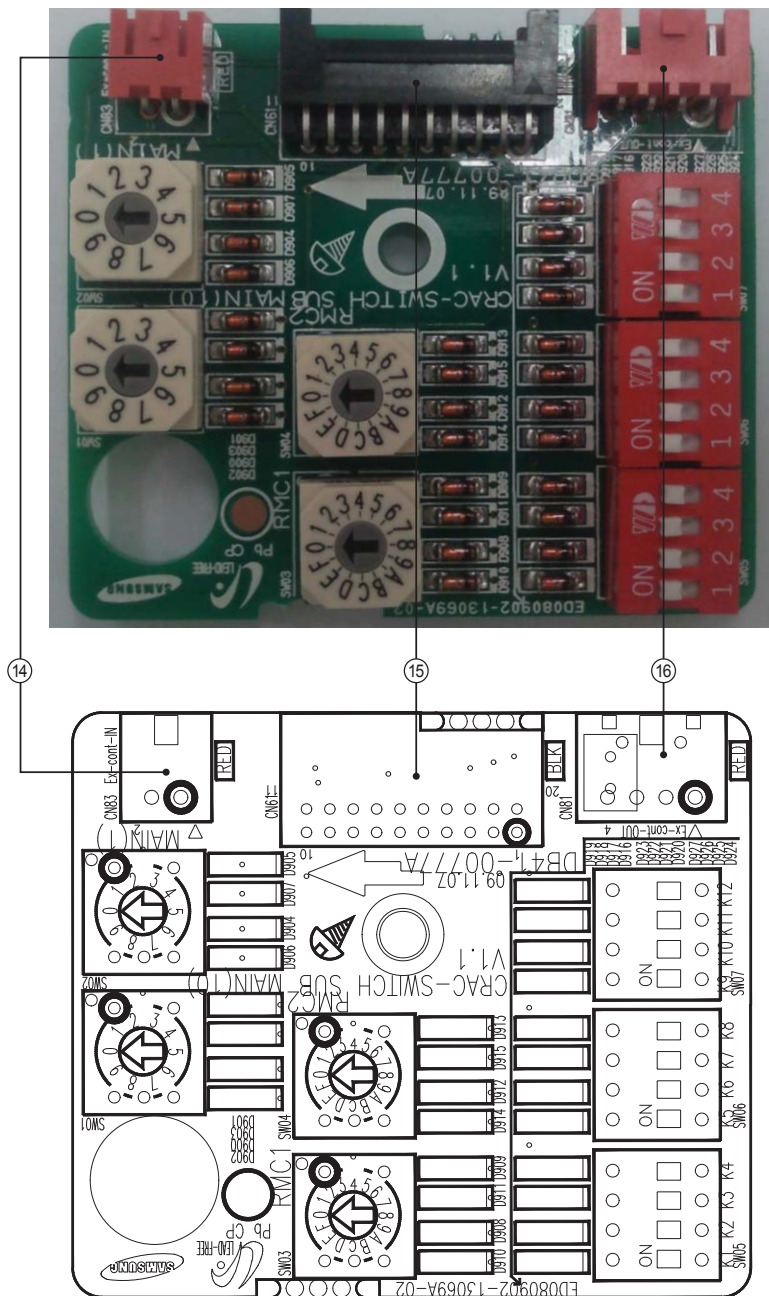
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Wall-mounted type(Neo Forte with EEV)(cont.)

① CN42-Temp. Sensor #1: GND #2: EVA OUT Sensor	② CN41-Temp. Sensor #1: Room Temp. Sensor #2: GND #3: EVA IN sensor #4: GND	③ CN44- RPM Feedback #1: DC5V #2: GND #3: Hall IC Input	④ CN31-Outdoor Comm. #1: Comm. Signal F1 #2: Comm. Signal F2
⑤ CN33-Wired Remocon Comm. #1: Comm. Signal F3 #2: Comm. Signal F4	⑥ CN32-Wired Remocon DC Power #1: DC12V #2: GND	⑦ CN61 - Connect to SUB #1~#10,#20: Option Switch Address Signal #11~#14: GND #15: External Control Signal #16: Comp Check Signal #17,#19: 12V #18: Error Check Signal	⑧ CN60-UP/DOWN LOUVER #1: DC12V #2~#5: Louver Control Signal
⑨ CN71- AC Power #1: L Phase #3: N Phase	⑩ CN92-Display ##1,#2,#14,#15 : DISPLAY Signal #3 : Operation S/W #4 : DC5V #5 : Wireless Remocon Signal #6: GND	⑪ CN73-FAN MOTOR #1 : Start Capacitor #3 : Motor Control #5 : N Phase	⑫ CN62-EEV #1~#4 : EEV Control #5, #6 : DC12V
⑬ CN10-Micom Download			

Wall-mounted type(Neo Forte with EEV)(cont.)

■ SUB SWITCH



<p>⑭ CN83-External Control #1 : On/Off Contact Switch Input #2 : GND</p>	<p>⑮ CN61-Connect to Main</p>	<p>⑯ CN42-External Control #1, #3 : DC12V #2 : Error Check Out #4 : Comp. Check Out</p>
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MEMO

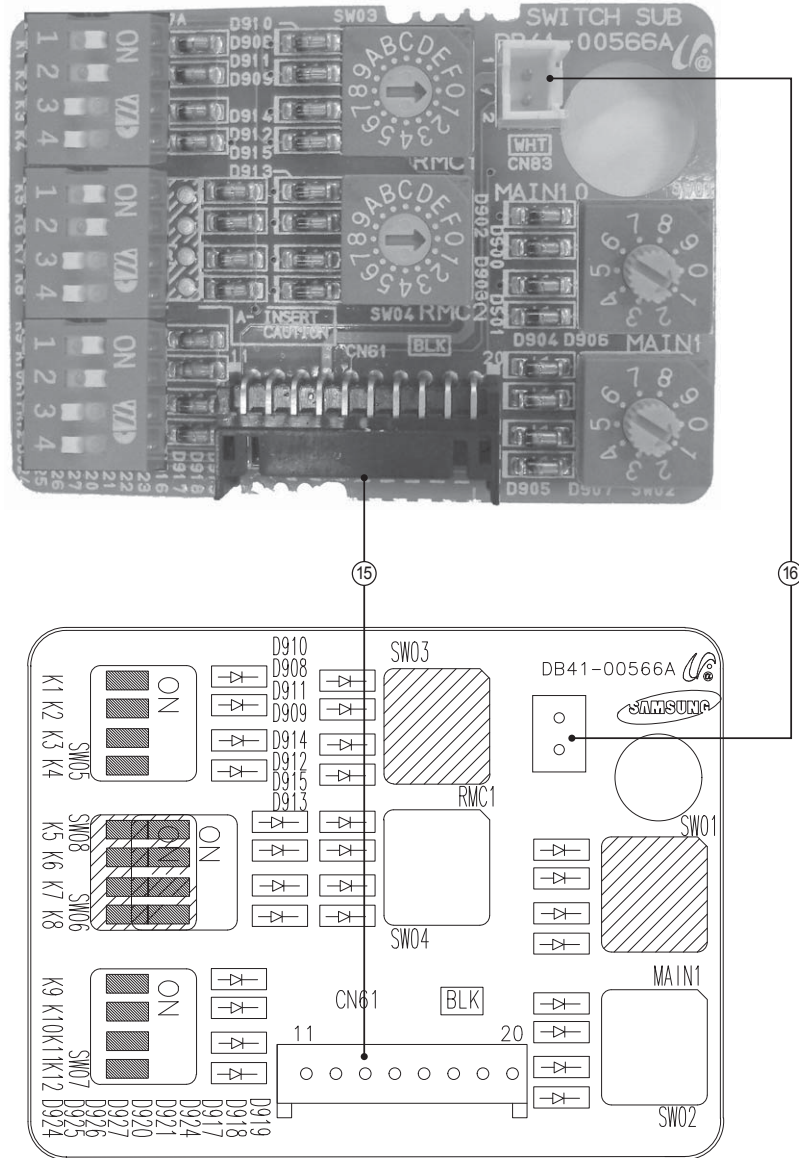
Wall-mounted type(Vivace)(cont.)

MAIN PCB(cont.)

<p>① CN73-Fan Motor #1: Input Operating Capacitor Motor #2 #4: Not Used #3: Motor Control Signal #5: N Phase Voltage</p>	<p>② CN71-AC Power #1: L Phase #2: N Phase</p>	<p>③ CN82- MPI #1: MPI- #2: MPI+ #3: 12 #4: MPI Feedback</p>	<p>④ CN60-Up/Down Louver #1: DC12V #2,3,4: Louver Sonrol Signal</p>
<p>⑤ CN52- RPM Feedback #1: DC5V #2: GND #3: Hall IC Input</p>	<p>⑥ CN41- Temp. Sensor #1: Room Temp. Sensor #2: GND #3: EVA IN Temp. sensor #4: GND</p>	<p>⑦ CN42- Temp. Sensor #1: EVA Out Thermistor #2: GND</p>	<p>⑧ CN31- Indoor/Outdoor Unit Communication #1: Comm. Signal F1 #2: Comm. Signal F2</p>
<p>⑨ CN33- Wired Remocon Comm. #1: Comm. Signal F3 #2: Comm. Signal F4</p>	<p>⑩ CN32- Wired Remocon Power #1: 12V #2: GND</p>	<p>⑪ CN61-Option Setup Sub Board Connection #1~10,#20: Option Switch Address Signal #11~14: GND #15: External Control Signal #16: Comp Check Signal #17,#19: 12V #18: Error Check Signal</p>	<p>⑫ CN91-Display #1: Not Used #2~12: Display Control #13: Operating Switch #14: 5V #15: Remocon Receiver Signal #16: GND</p>
<p>⑬ CN10-Micom Download</p>	<p>⑭ CN62-EEV(Not Used) #1~4: EEV Control Signal #5: 12V</p>	<p>⑮ CN93-Display #1: 12V #2~#5: Auto Grille Control</p>	

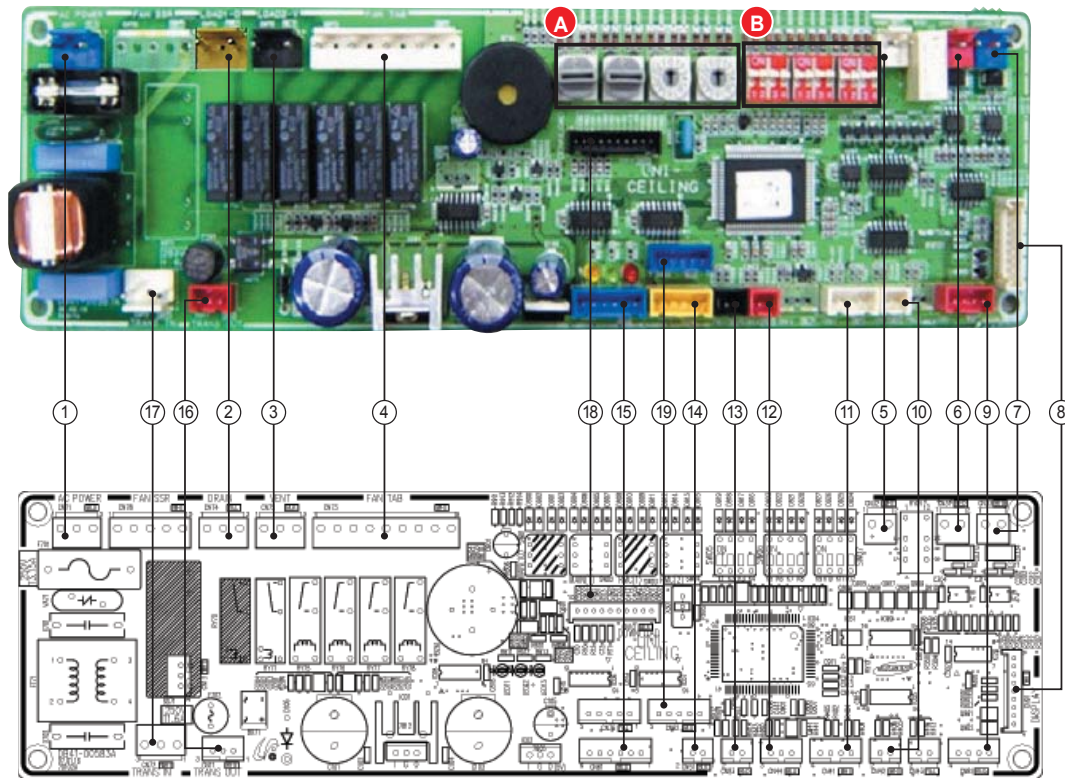
Wall-mounted type(Vivace)(cont.)

■ SUB SWITCH



No.	CN #	COLOR	FUNCTION
⑮	CN61	Black	Main-Sub PCB Connector
⑯	CN83	White	External Contact Control

6-1-10 Ceiling type

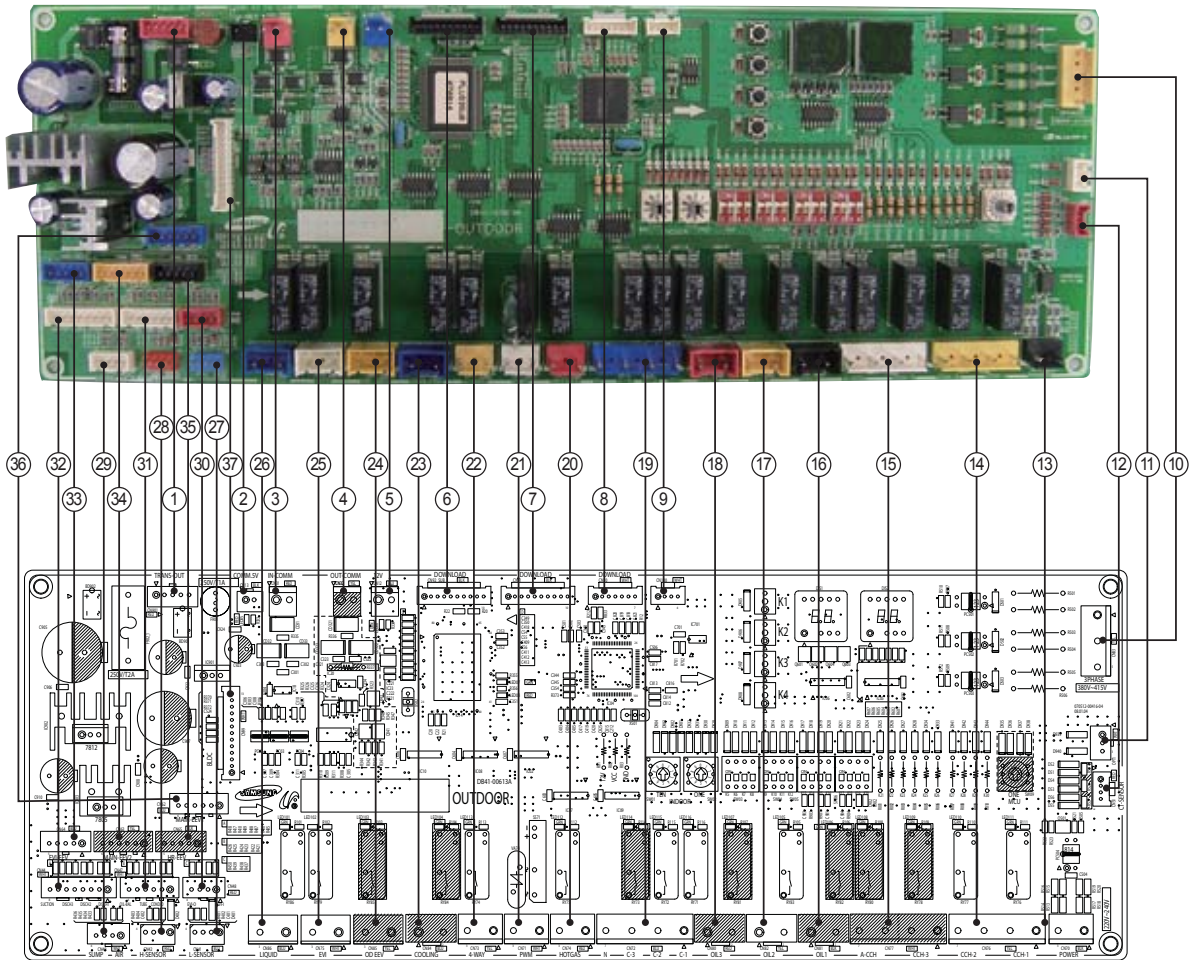


<p>① CN71-AC Power #1: L Phase #2: N Phase</p>	<p>② CN74-Drain Pump</p>	<p>③ CN75 Ventilator</p>	<p>④ CN73-Fan Motor #1: Input Operating Capacitor Motor #2, #4: No Used #3: Motor Control Signal #5: N Phase Voltage</p>
<p>⑤ CN32- Remocon DC12V #1: DC12V #2: GND</p>	<p>⑥ CN31- Indoor/Outdoor Unit Communication #1: Comm. Signal F1 #2: Comm. Signal F2</p>	<p>⑦ CN33- Wired Remocon Communication #1: Comm. Signal F3 #2: Comm. Signal F4</p>	<p>⑧ CN91-Display #1~5: LED Control #6: Auto_S/W #7:Remocon_Signal #8:GND #9: VCC</p>
<p>⑨ CN81- External Control OUT #1,3: DC12V #2: Error CHK Out #4: Comp. CHK Out</p>	<p>⑩ CN42- Temp. Sensor #1: EVA OUT THEMISTOR #2: GND</p>	<p>⑪ CN41- Temp. sensor #1: ROOM Temp. Sensor #2: GND #3: EVA IN Temp. sensor #4: GND</p>	<p>⑫ CN83- External Control #1: On/off Contact point input #2: GND</p>
<p>⑬ CN51-Float S/W #1: GND #2: Float S/W</p>	<p>⑭ CN76-SUB PCB Connctcion</p>	<p>⑮ CN61-LOUVER #1: DC12V #2~5: LOUVER control</p>	<p>⑯ CN11-TRANS-OUT #1: DC12V #2:- #3: GND</p>
<p>⑰ CN72-Trans In #1: N #2: L</p>	<p>⑱ CN10-Micom Download</p>	<p>⑲ CN62-EEV #1: EEV #2: DC12V</p>	

6-2 Outdoor Unit

6-2-1 RVXVHT075/100/125FE, RD075/100/125VHXFA, RD075/100/125VRXFA

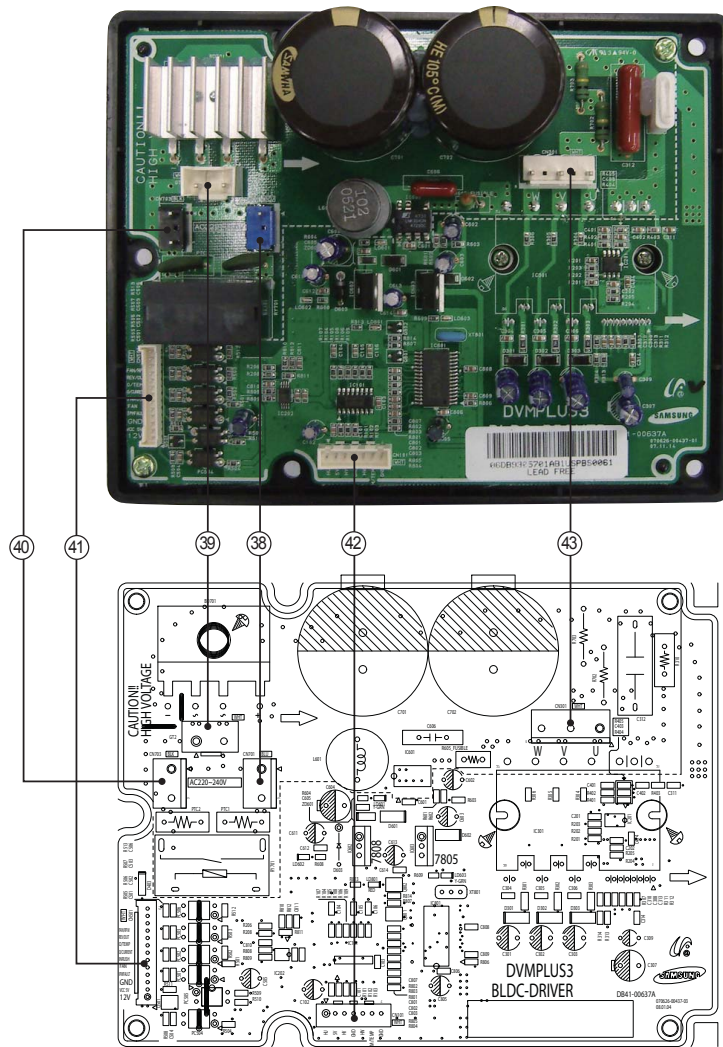
■ MAIN PCB



MAIN PCB(cont.)

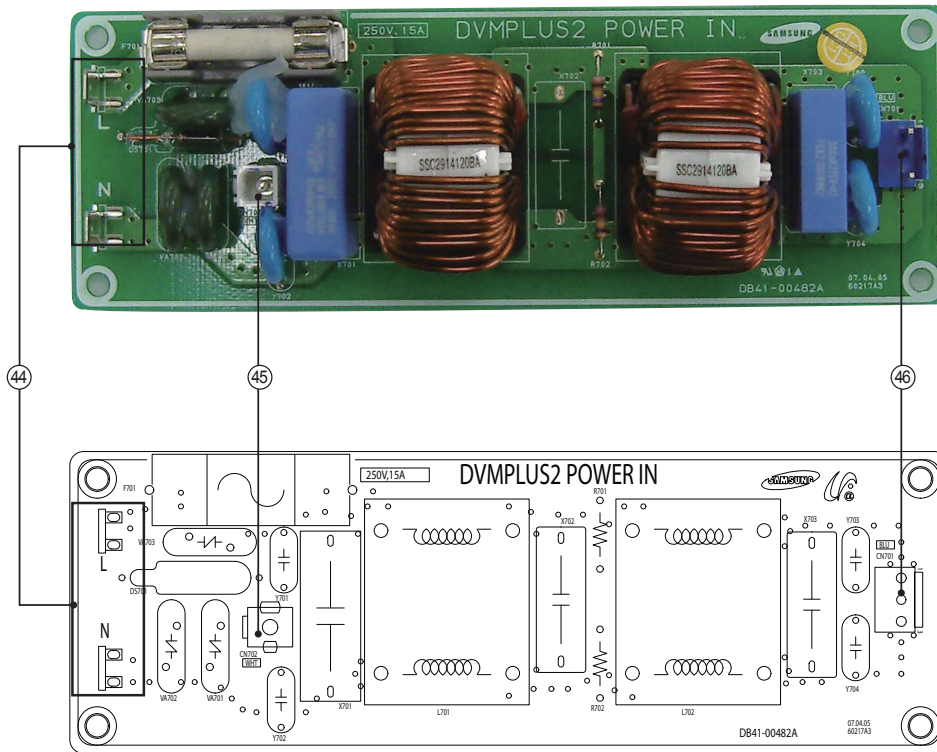
① CN901-TRANS OUTPUT #1, #2: DC Power Source #3: Not used #4, #5: Comm. Power source	② CN13- Relay Comm. 5V #1: 5V #2: Comm. Voltage 5V GND	③ CN31- Indoor/outdoor unit Communication #1: Comm. Signal F1 #2: Comm. Signal F2	④ CN32- Outdoor Units Communication #1: Comm. Signal OF1 #2: Comm. Signal OF2
⑤ CN12-replay power #1: 12V #2: GND	⑥ CN92-SUB MICOM D/L	⑦ CN91-MAIN MICOM D/L	⑧ CN10-Developer D/L
⑨ CN100-For Developer	⑩ CN83-3 phase Detection part #1: R phase input #2: S phase input #3: T phase input	⑪ OPT1- Cooling/Heating Switch #1: Cooling #2: GND #3: Heating	⑫ CN51-CT Sensor Input #1: CT Input #2: CT2 input #3: CT3 input #4: GND
⑬ CN70-220V input #1: L phase #2: N phase	⑭ CN76-CCH Control #1: CCH 1 L phase #2: CCH 1 N phase #3: CCH 2 L phase #4: CCH 2 N phase	⑮ CN75-CCH Control #1: CCH 3 L phase #2: CCH 3 N phase #3: ACCUM CCH L phase #4: ACCUM CCH N phase	⑯ CN81- Balance Keeping Valve1
⑰ CN82- Balance Keeping Valve2	⑱ CN80- Balance Keeping Valve3	⑲ CN 72- Compressor Control #1: COMP1 #2: COMP2 #3: COMP3 #4: N phase	⑳ CN74-Hot Gas Valve
㉑ CN71- PMM Valve	㉒ CN73- 4 Way Valve	㉓ CN84- Main Cooling Valve	㉔ CN85-Outdoor Unit EEV Valve
㉕ CN75- EVI Valve	㉖ CN86- Liquid Valve	㉗ CN41- Low Pressure Sensor #1: Not used #2: Low Pressure Sensor #3: GND #4: 5V	㉘ CN75- CCH Control #1: High Pressure Sensor #2: Not Used #3: GND #4: 5V
㉙ CN49- Temp. Sensor #1: Outdoor Temperature Sensor #2: GND #3: SUMP Temperature Sensor #4: GND	㉚ CN48-Temp. Sensor #1: EVI IN Temperature Sensor #2: GND #3: EVI OUT Temperature Sensor #4: GND	㉛ CN47- Temp. Sensor #1: Oil Valance Temperature Sensor #2: GND #3: Liquid Temperature Sensor #4: GND #5: Cond Out Temperature Sensor #6: GND	㉜ CN44- Temp. Sensor #1: Comp 1. Output Temperature Sensor #2: GND #3: Comp 2. Output Temperature Sensor #4: GND #5: Comp 3. Output Temperature Sensor #6: GND #7: Suction Temperature Sensor #8: GND
㉝ CN64- EVI EEV #1, #2, #3, #4: Control signal #5: 12V	㉞ CN63- Main EEV #1, #2, #3, #4: Control signal #5, #6: 12V	㉟ CN65- HR EEV #1, #2, #3, #4: Control signal #5: 12V	㊱ CN62- Main EEV #1, #2, #3, #4: Control Signal #5, #6: 12V
㊲ CN99-Main/BLDC Connection #1: 12V #2: 5V #3: GND #4: IPM Fault Error Signal #5: BLDC Fan Motor Control Signal #6: Inrush Relay Signal #7: Over Voltage Error Signal #8: Motor Overheating Error signal #9: Fan Motor counter rotation Error Signal #10: Fan RPM Error Signal #11, #12, #13: Not used			

■ BLCD



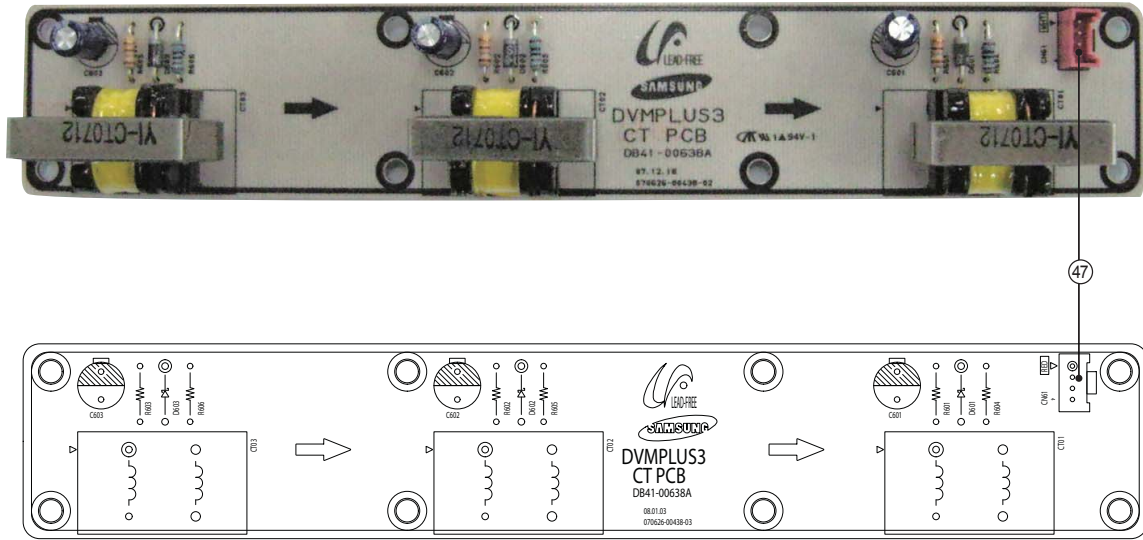
<p>38 CN701-Power Input (AC220V)</p> <p>#1: L #3: N</p>	<p>39 GT2-Trans Output</p> <p>#1: AC 220V - L #2: AC 220V - N</p>	<p>40 CN703- Power Output (220V)</p> <p>#1: AC 220V - L #3: AC 220V - N</p>	<p>41 CN501- Main PCB Signal Connector</p> <p>#1: 12V Input #2: 5V Input #3: GND #4: IPM Fault Error Signal Output #5: Fan Control Signal Input #6: Inrush Relay Movement Signal Input #7: Motor Over Voltage Detection Signal Output #8: Motor Overheating detection Signal Output #9: Motor Counter Rotation Detection Signal Output #10: Motor RPM Feedback Signal #11: Not used #12: Not used #13: Not used</p>
<p>42 CN101- Motor Control Signal</p> <p>#1: U Phase Control Signal #2: DC 5V #3: V Phase Control Signal #4: GND #5: W Phase Control Signal #6: Motor Temp. Sensor Input #7: GND</p>	<p>43 CN31- Motor Power</p> <p>#1: U Phase Output #2: V Phase Output #3: W Phase Output</p>		

■ Filter PCB



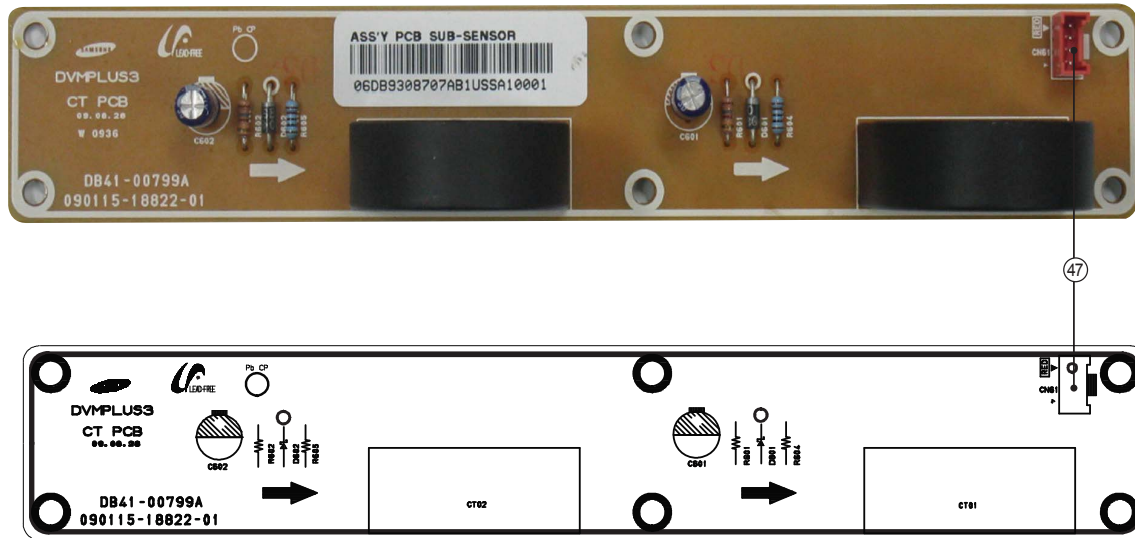
<p>44 CN701-Power input (AC220V) L: L phase input N: N phase input</p>	<p>45 CN702-Earth Earth Connection</p>	<p>46 CN701- Power output (220V) #1: AC 220V - L #3: AC 220V - N</p>
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■ CT PCB



④7 **CN61-Current sensor output value**
#1: COMP 1 Current Value Output
#2: COMP 2 Current Value Output
#3: COMP 3 Current Value Output
#4: GND

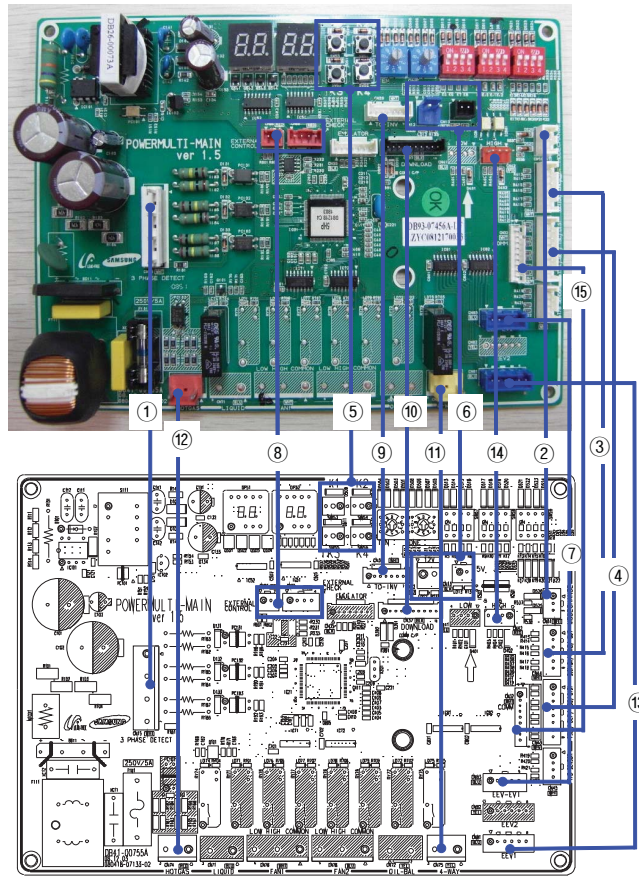
■ CT PCB



④ CN61-Current sensor output value
 #1: COMP 1 Current Value Output
 #2: COMP 2 Current Value Output
 #3: COMP 3 Current Value Output
 #4: GND

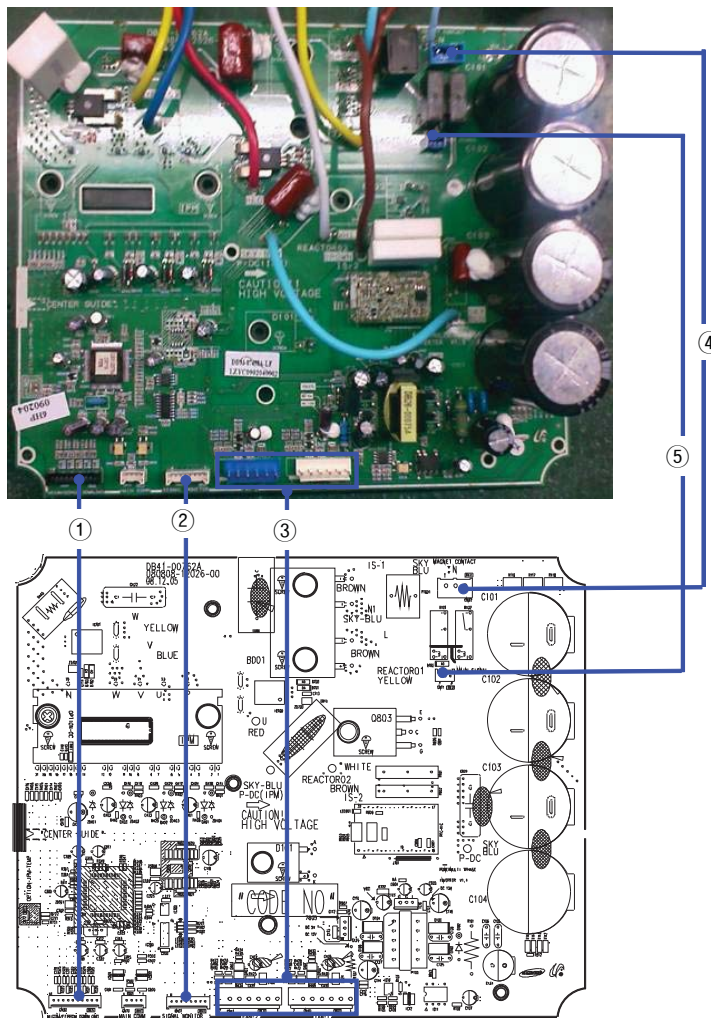
6-2-2 RD040/050MHXCA

■ MAIN PCB



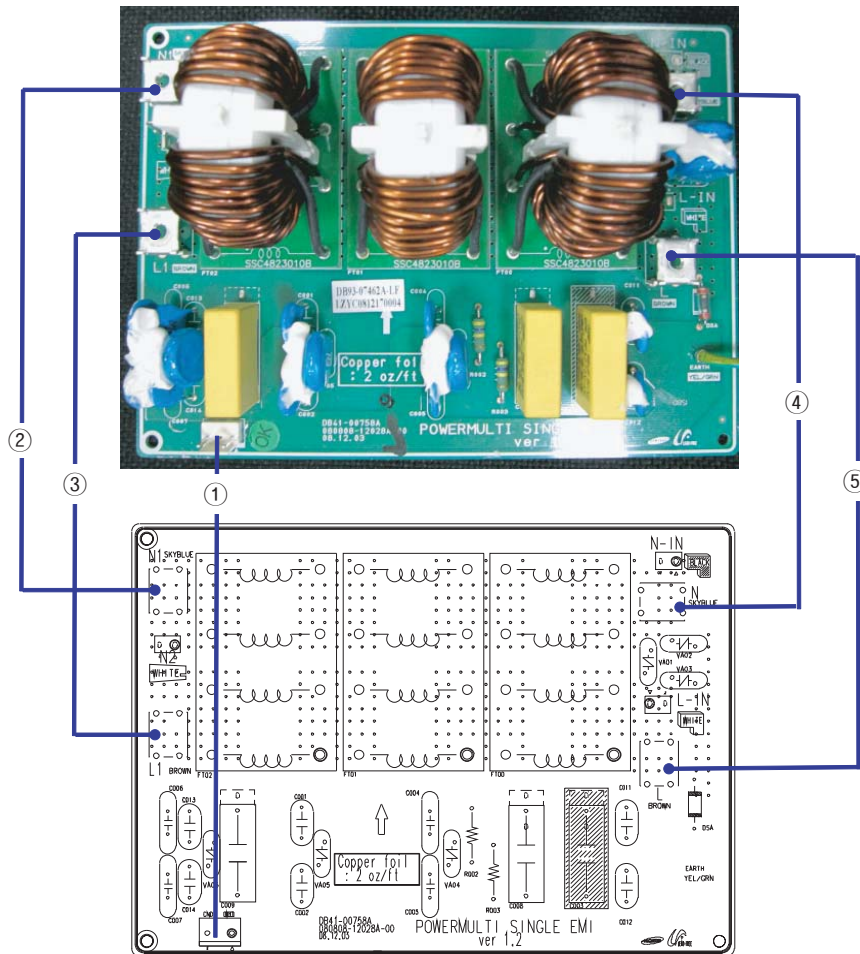
<p>① N15(4PIN/White) – Main Power #5 : Power L #7 : Power N</p>	<p>② CN74-Thermal Valve #1 : Power N #3 : Power L</p>	<p>③ CN44-Sensor #1,2 : OUT Sensor #3,4 : COND Sensor #5,6 : SUCTION Sensor</p>	<p>④ CN43- Sensor #1,2 : DIS1 Sensor #3,4 : TSC Sensor #5,6 : OLP Sensor #7,8 : Empty</p>
<p>⑤ K1, K2, K3, K4-Button K1, K2 : Special Control K3 : Restart K4 : Operation data display</p>	<p>⑥ CN12, CN13-DC Output CN12 : DC 12V CN13 : DC 5V</p>	<p>⑦ CN83-EVI Electric Expansion Valve #1~4 : Phase Control Signal #5 : 12V Voltage</p>	<p>⑧ CN85, CN86-External Contact Signal CN85 : External Test Signal CN86 : External Contact Signal</p>
<p>⑨ CN81- Main Inverter board communication #1 : Signal Input #2 : Signal Output #3 : GND #4 : DC 5V #5 : DC 12V #6 : Inverter board DC control #7 : Not used</p>	<p>⑩ CN37- Programmer</p>	<p>⑪ CN75- 4 Way Valve</p>	<p>⑫ CN74- Thermal Valve</p>
<p>⑬ CN81- Electric Expansion Valve #1~4 : Phase Control Signal #5~6 : 12V Voltage</p>	<p>⑭ CN42- High Pressure Sensor #1 : High Pressure Sensor #2 : Not Used #3 : GND #4 : DC 5V</p>	<p>⑮ CN32- Main, Communication board connection #1 : DC 12V #2 : DC 5V #3, 4 : Communication Signal #5 : Enable Signal #6 : Reverse Signal #7, 8 : AC Protection</p>	

■ INVERTER PCB



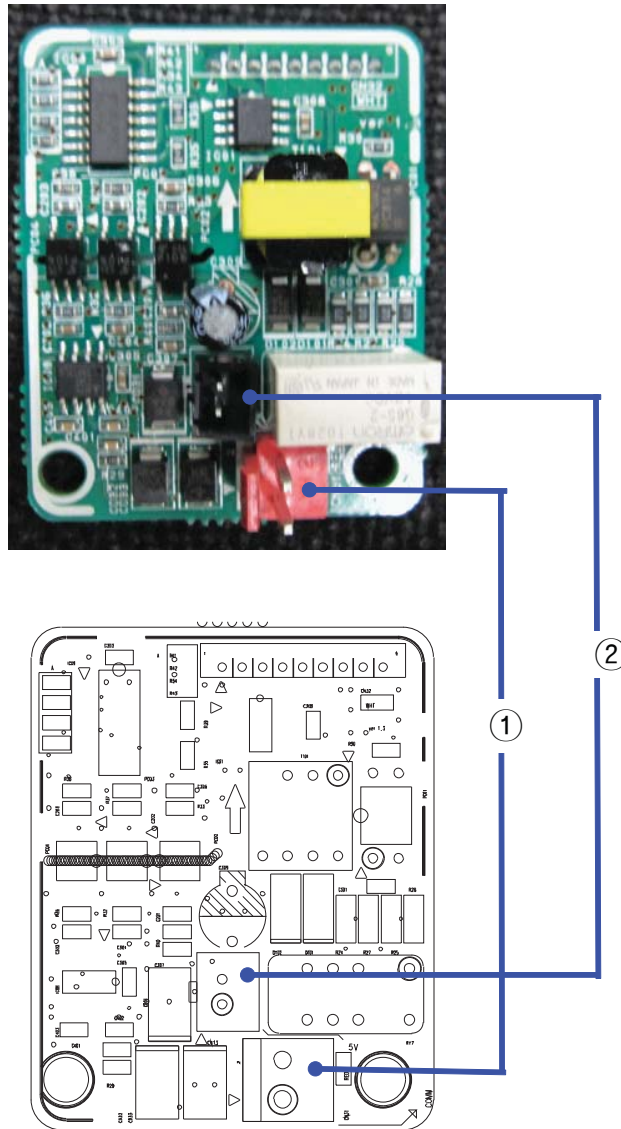
<p>① CN30- Programmer</p>	<p>② CN70- Main Inverter Board Communication #1, 2 : Main Inverter Board Communication Signal #3 : GND #4 : DC 5V</p>	<p>③ CN41, CN42- DC Fan #1 : DC Voltage 310V #2 : Not Used #3 : Feedback Signal #4 : DC 16V #5 : GND #6 : Revolution Control Signal</p>	<p>④ CN22- DC Contact Control</p>
<p>⑤ CN71- Main Inverter Board Communication #1 : DC 12V #2 : Inverter Board DC Control #3 : Not Used</p>			

■ EMI PCB



<p>① CN01- Main Power #1 : L Phase #2 : N Phase</p>	<p>② N1-N Phase Output</p>	<p>③ L1-L Phase Output</p>	<p>④ N-N Phase Input</p>
<p>⑤ L-L Phase Input</p>			

■ COMMUNICATION PCB

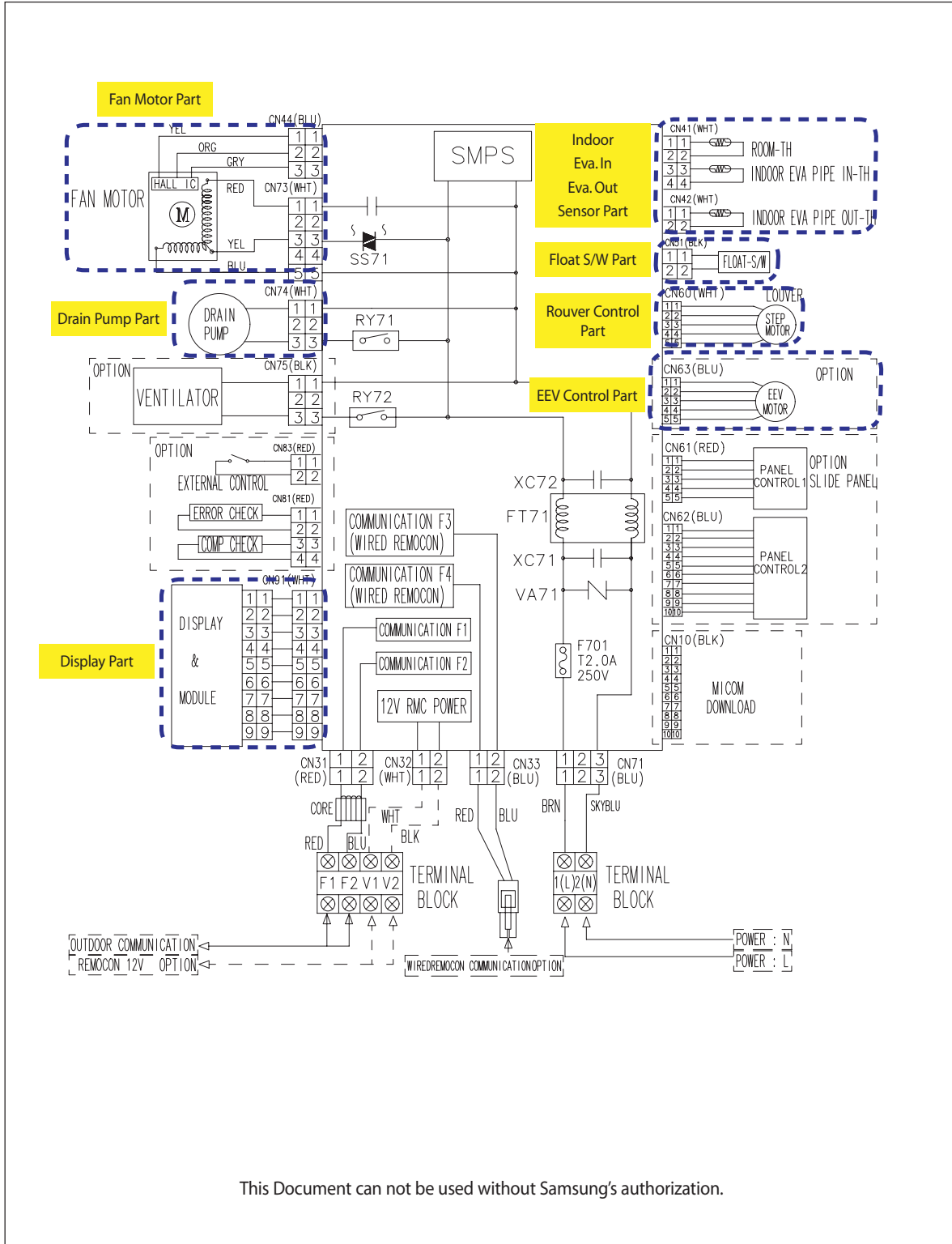


<p>① CN31- Communication #1 : F1 Signal #2 : F2 Signal</p>	<p>② CN13L: 5V Output #1 : DC 5V #2 : GND</p>
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7. Wiring Diagram

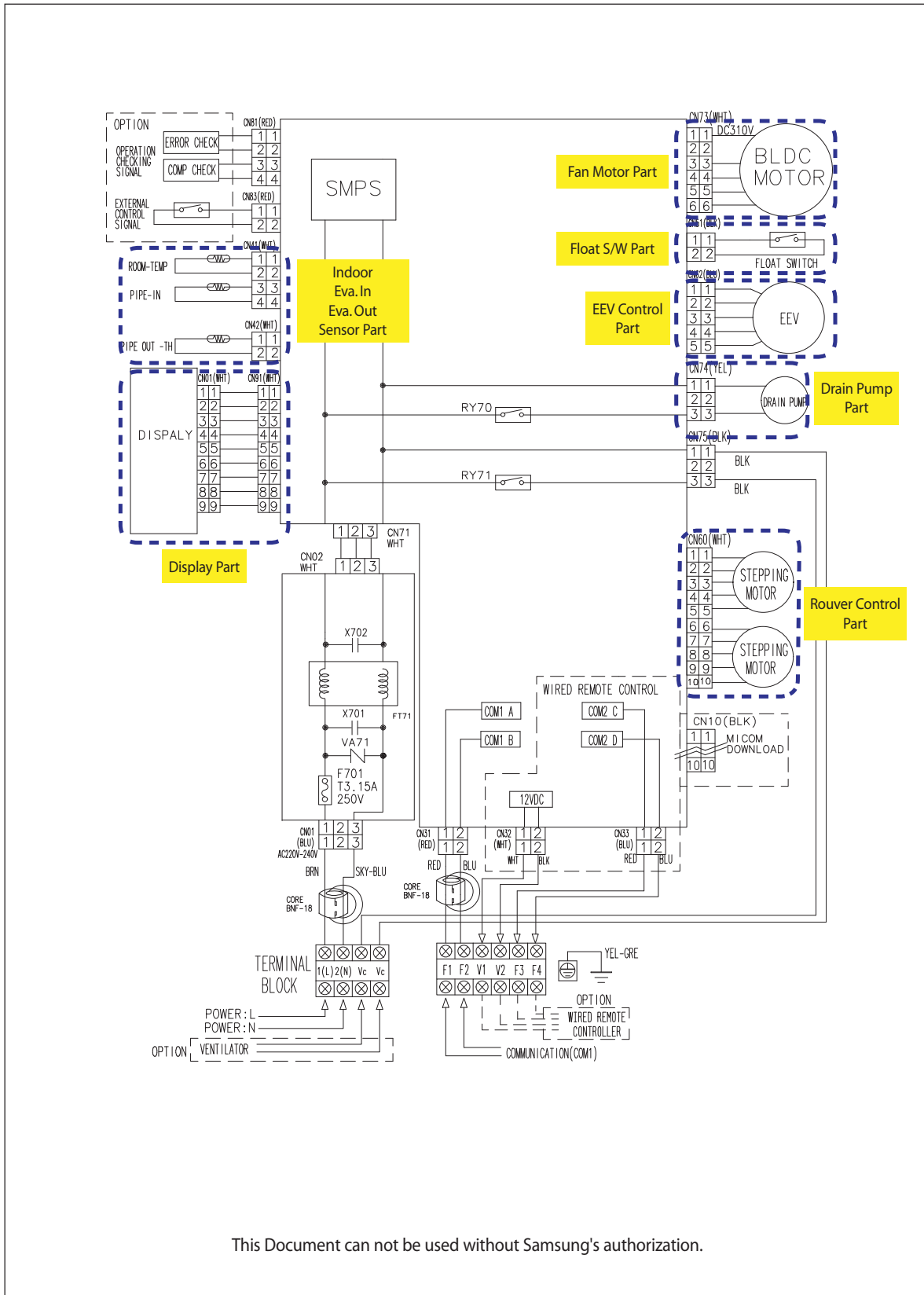
7-1 Indoor

7-1-1 Slim 1way cassette type



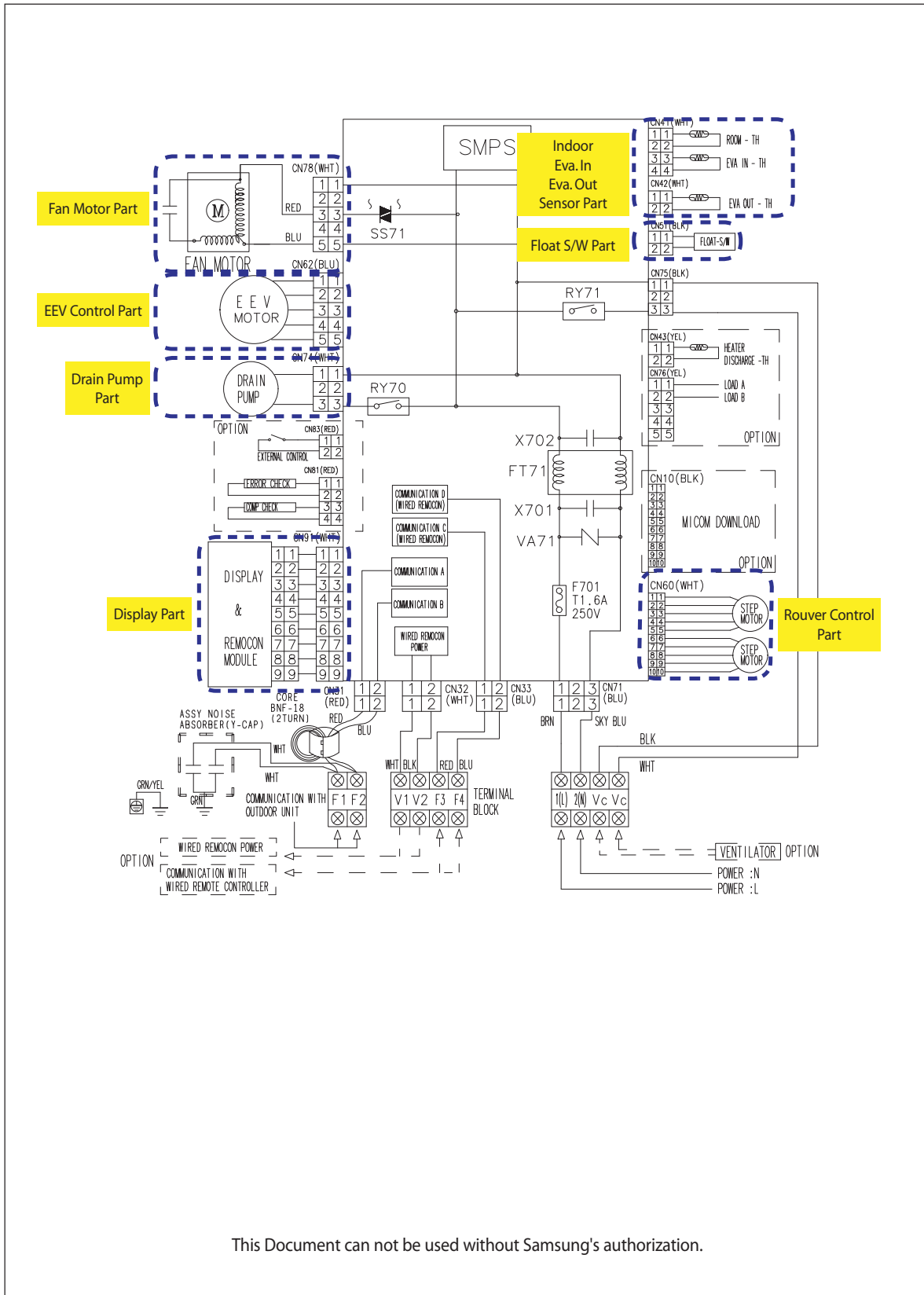
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7-1-2 4 way cassette type



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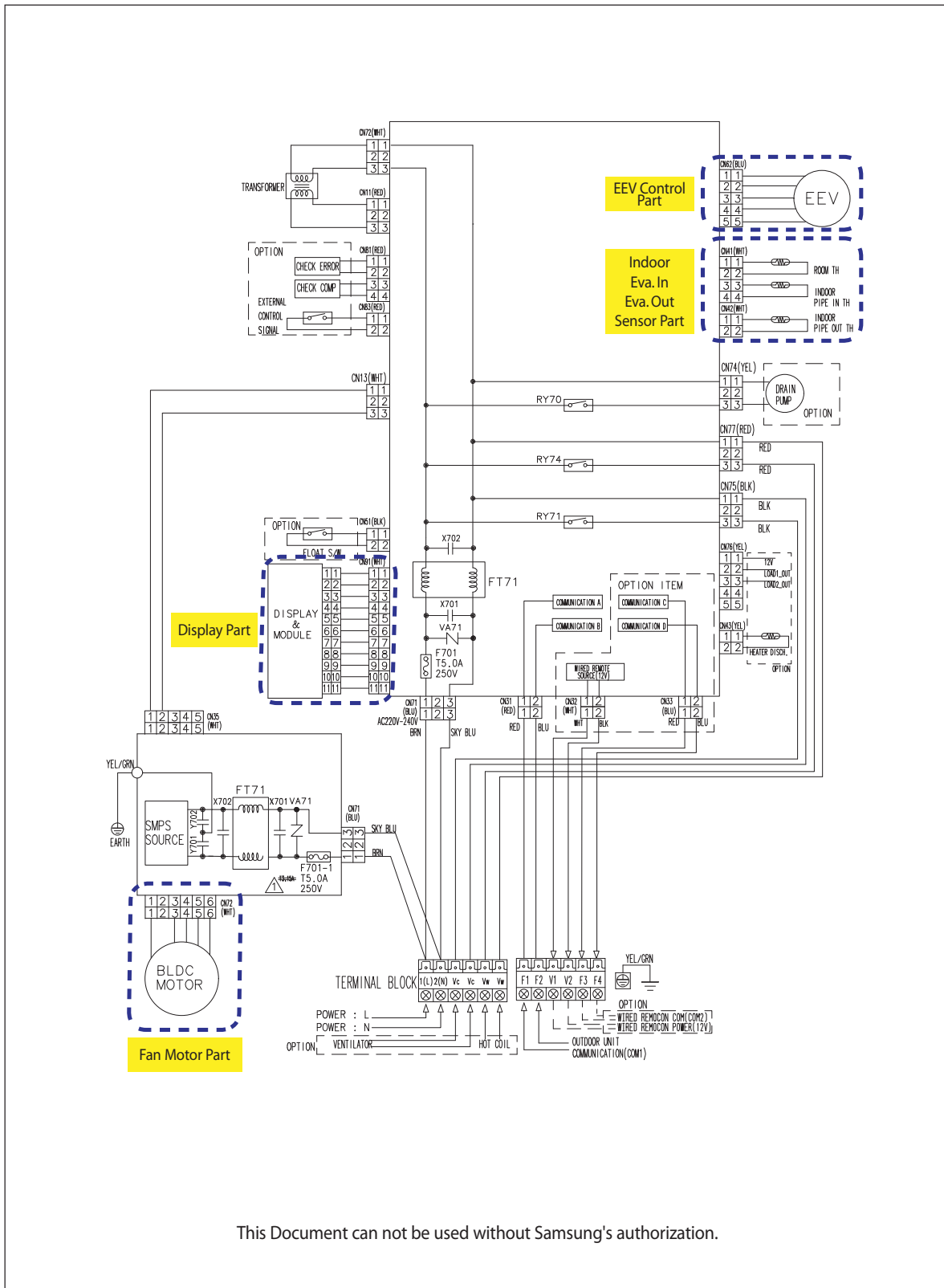
7-1-3 Mini 4way cassette type



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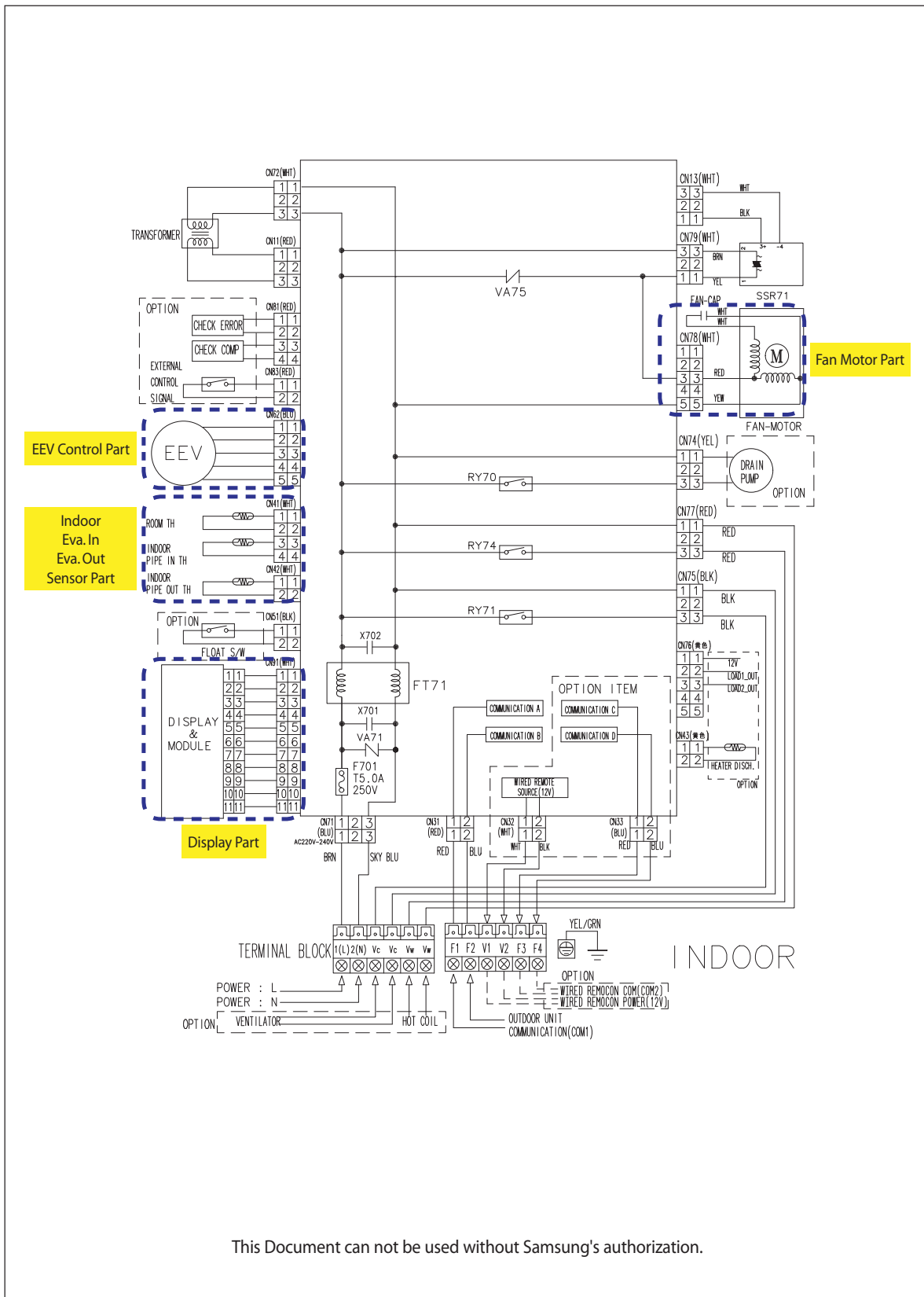
7-1-5 Duct type(Slim III)

■ AVXDSH100/110/145C*, ND100/110/145LH***

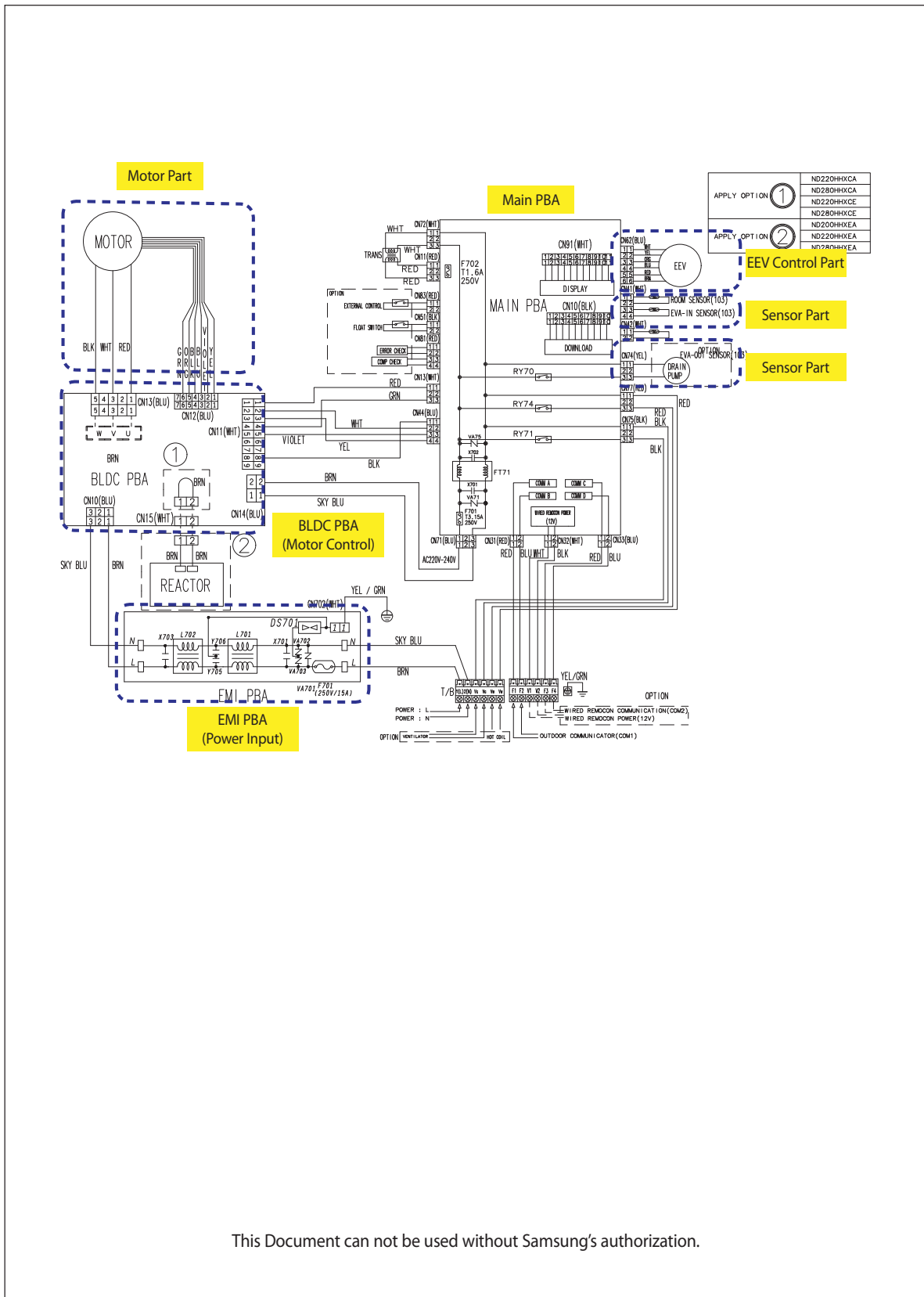


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7-1-6 Duct type(MSP)

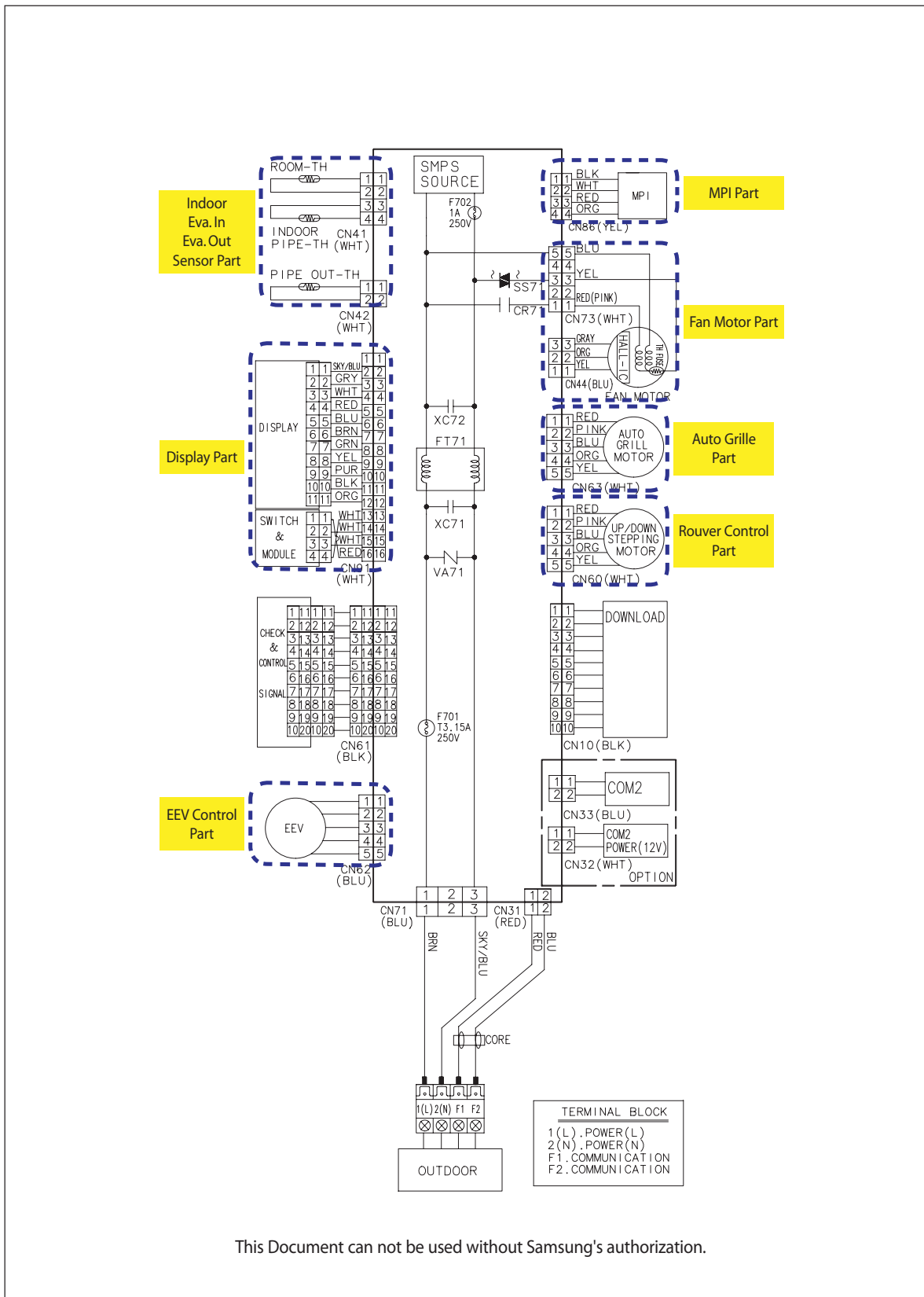


7-1-7 Duct type(BIG)



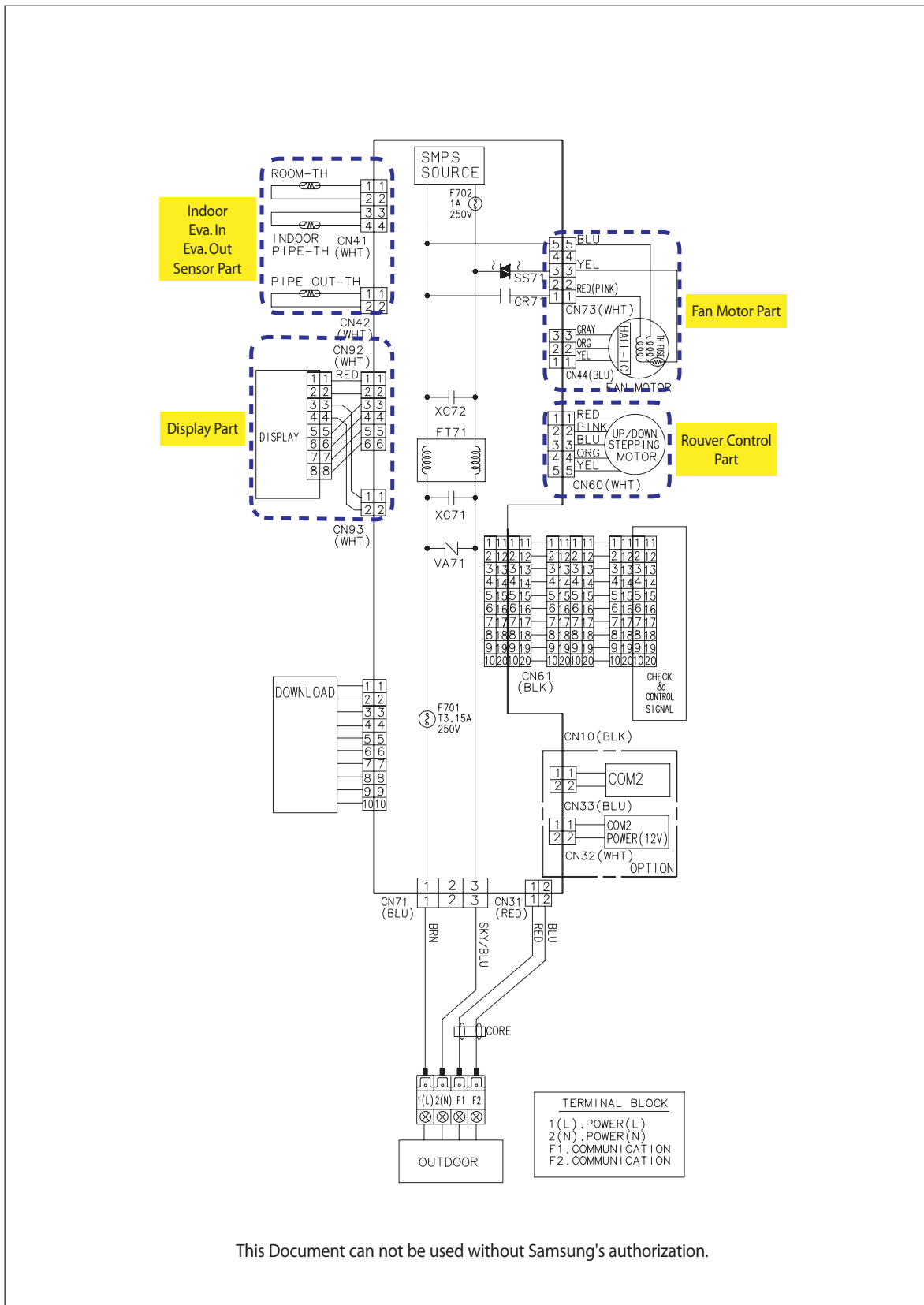
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7-1-8 Wall Mounted type(Vivace)



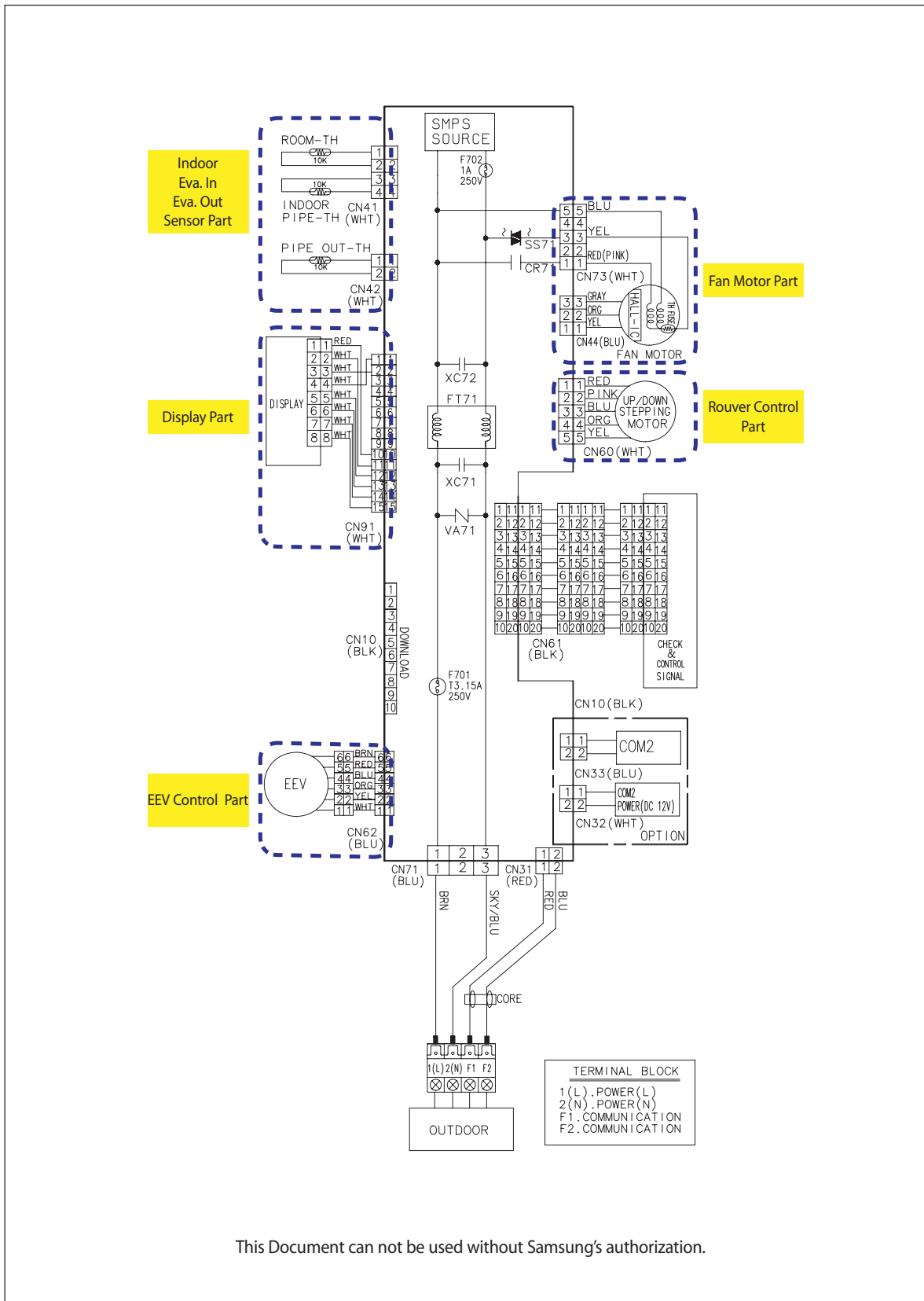
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7-1-9 Wall Mounted type(Neo Forte without EEV)



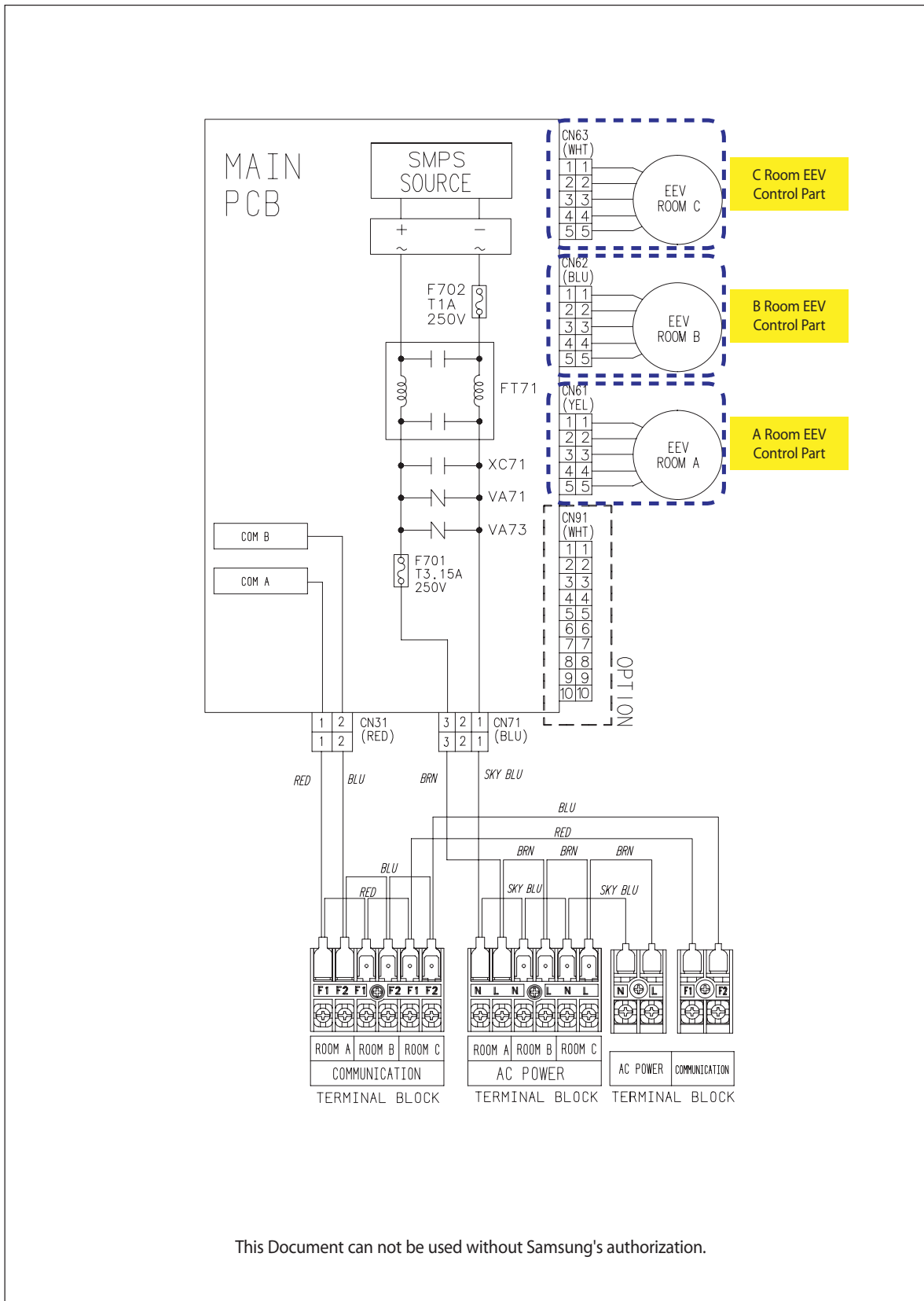
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7-1-10 Wall Mounted type(Neo Forte with EEV)



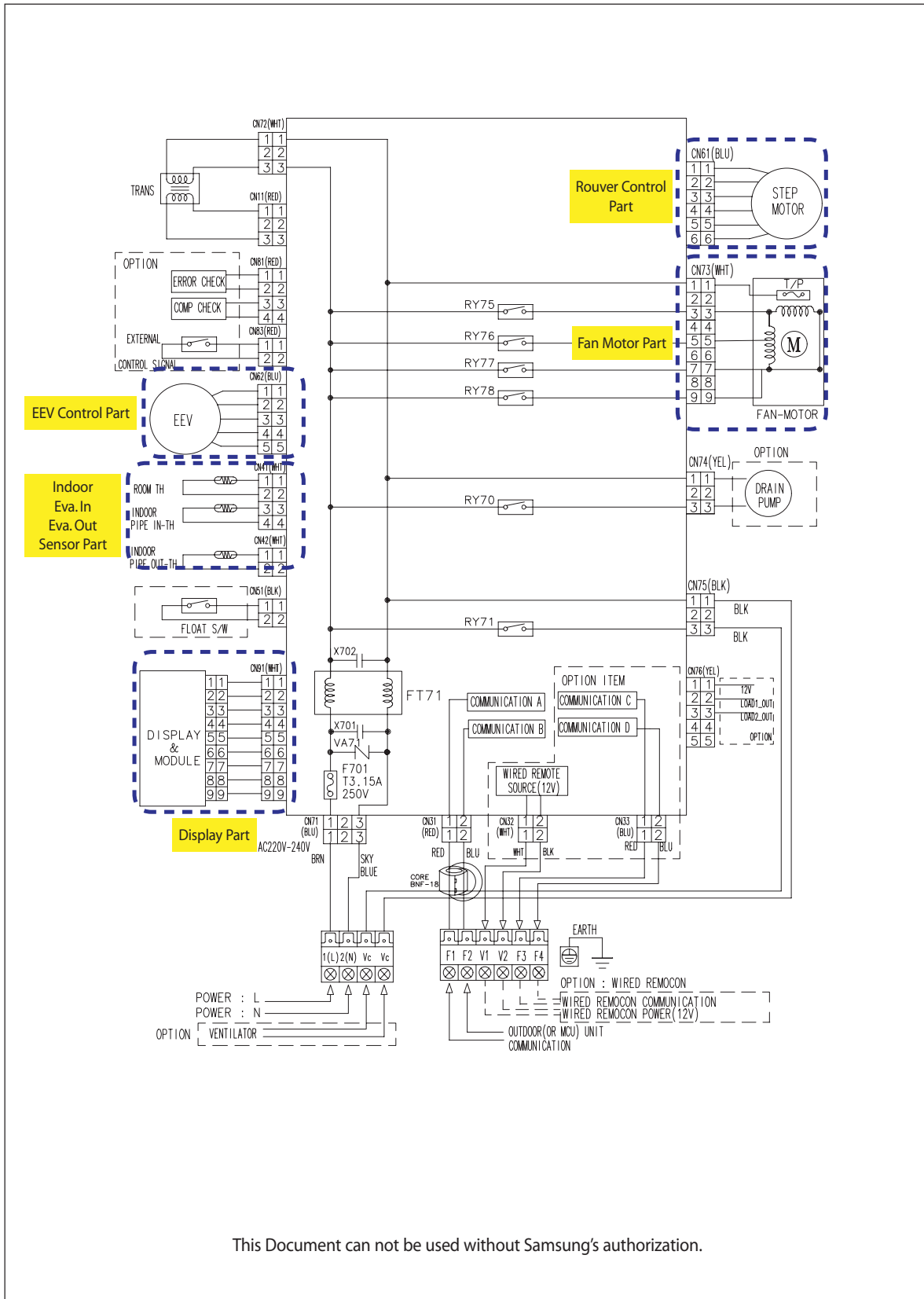
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7-1-11 Distributor kit



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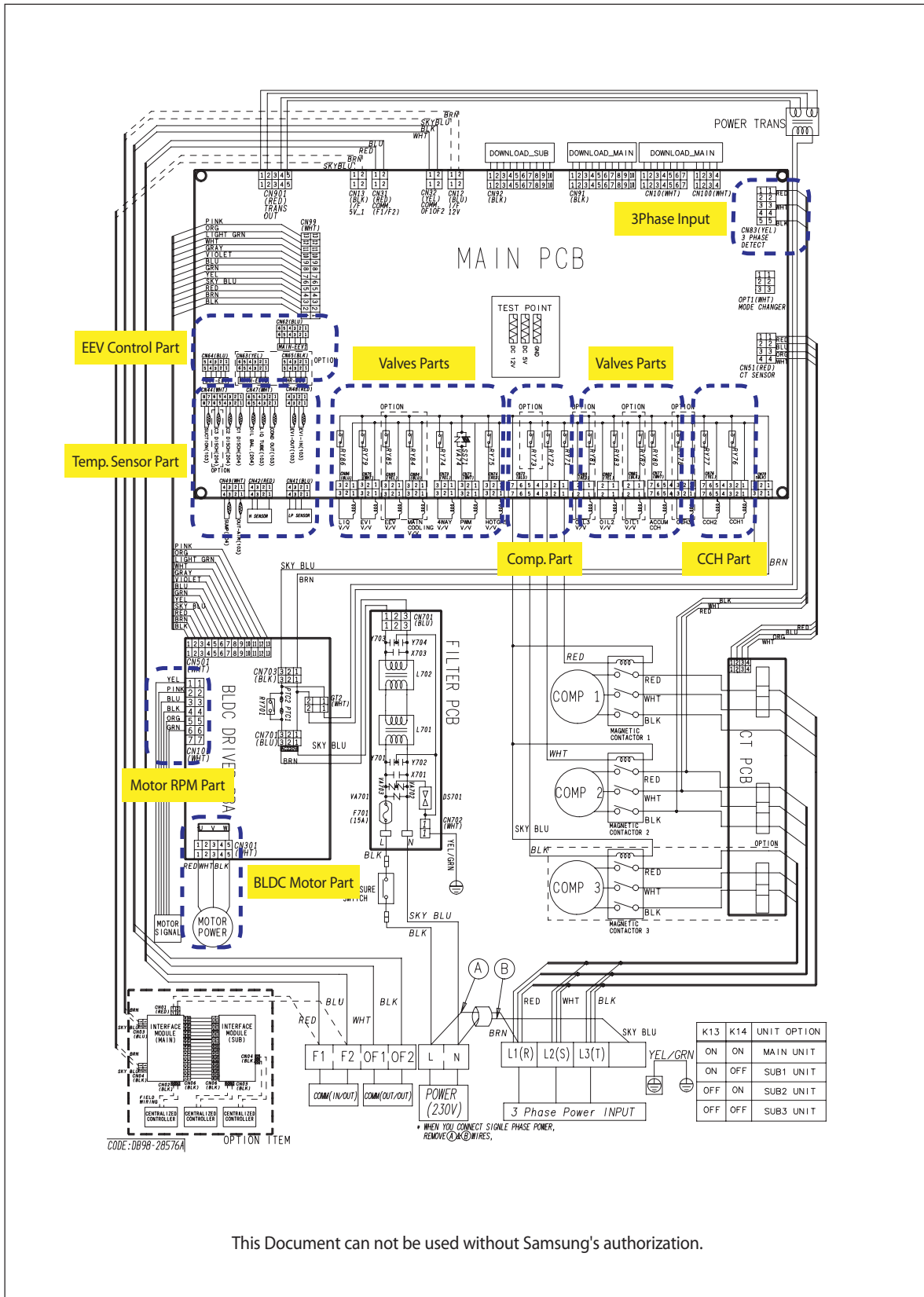
7-1-12 Ceiling



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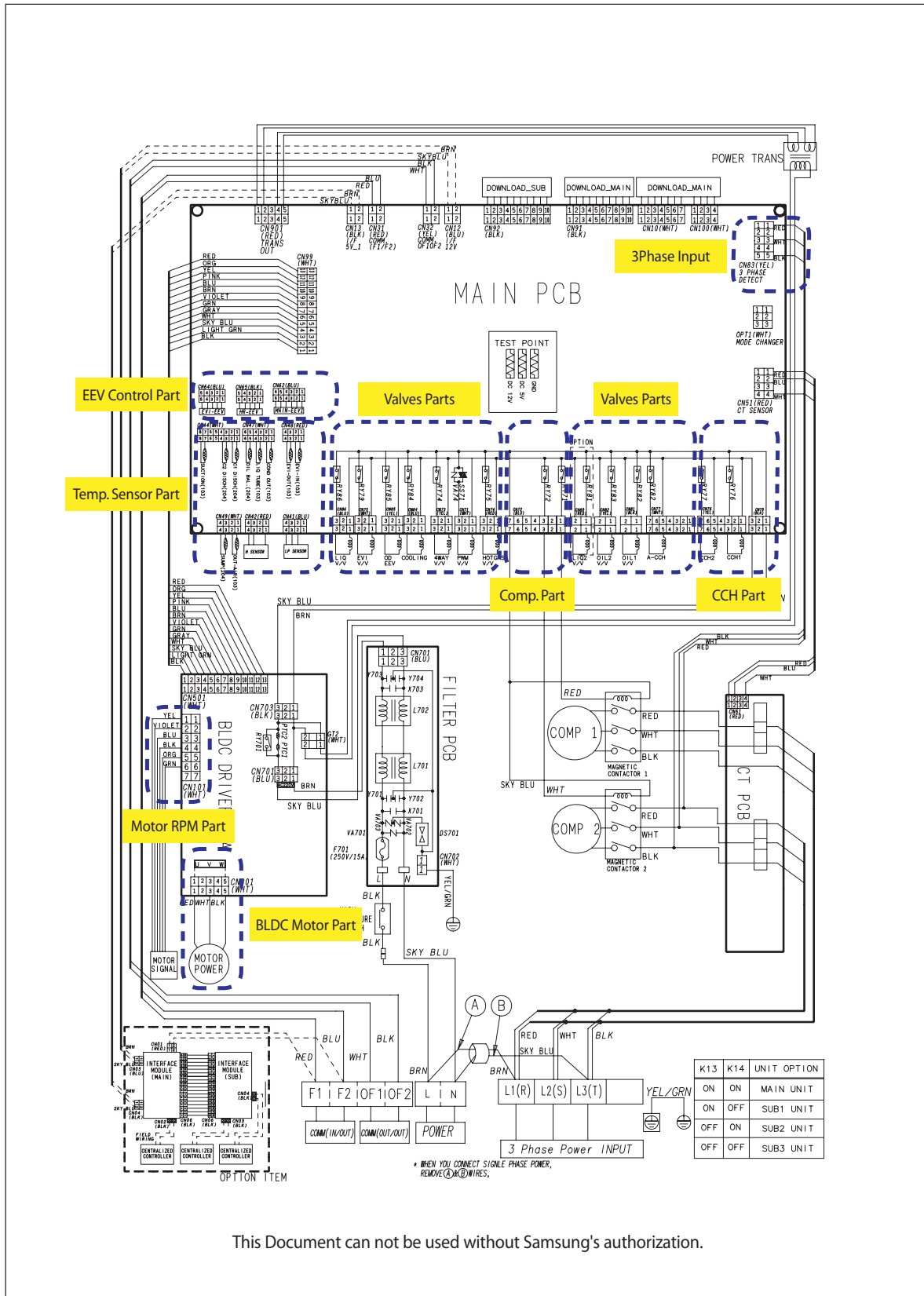
7-2 Outdoor Unit

■ RVXVHT075/100/125FE, RD075/100/125VHXFA



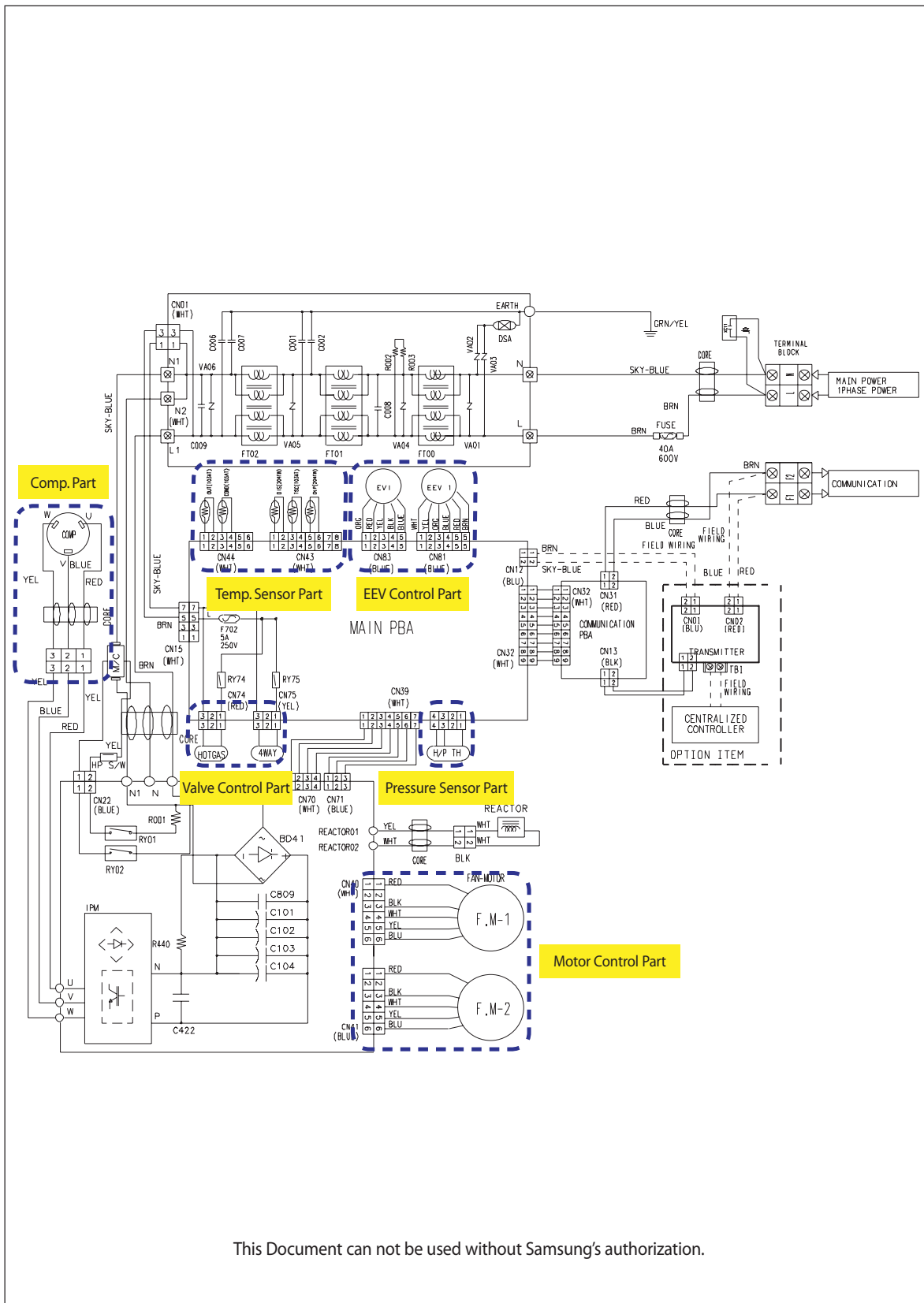
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RD075/100/125VRXFA



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RD040/050MHXCA



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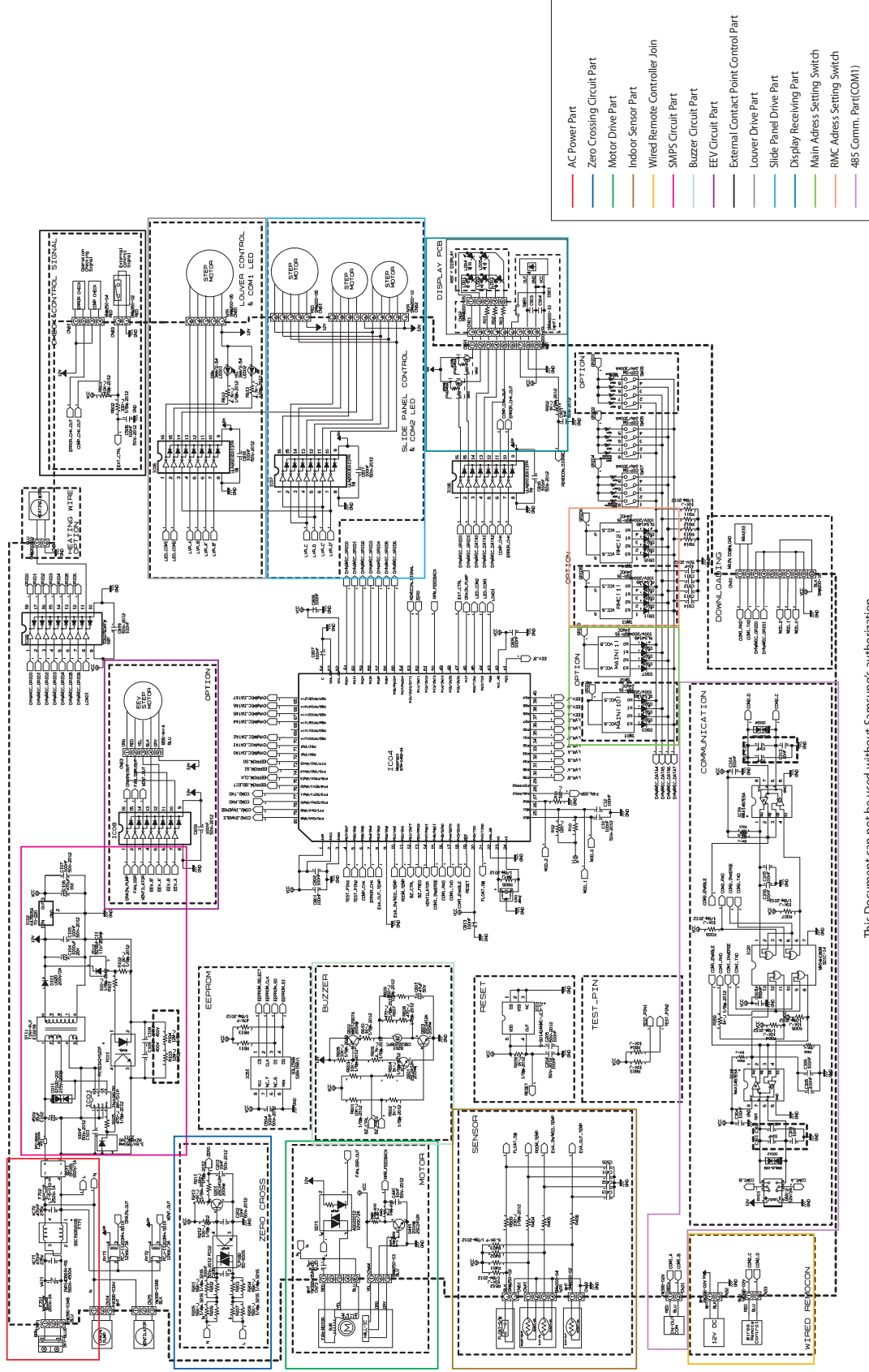
MEMO

8. Schematic Diagram

8-1 Indoor Unit

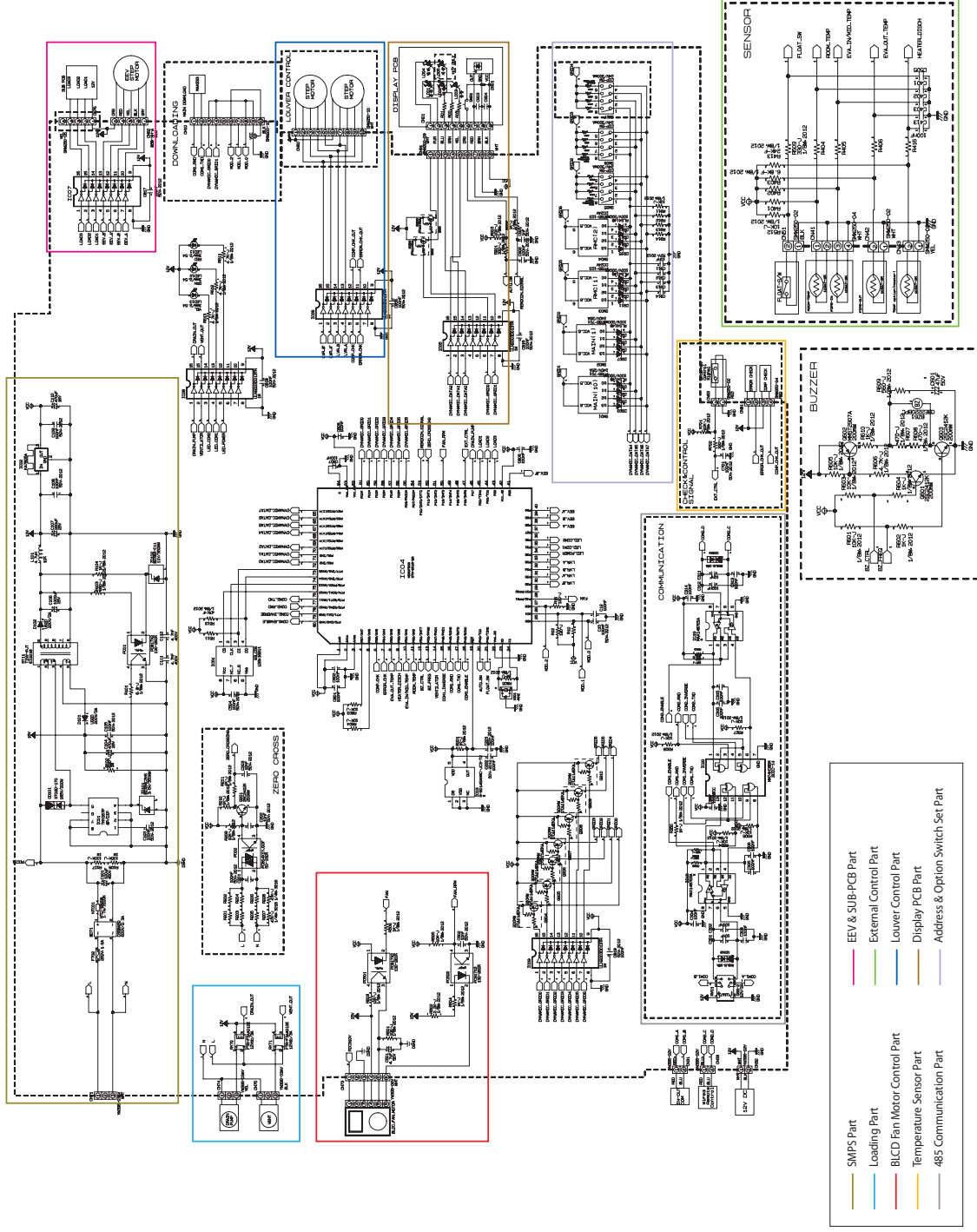
8-1-1 Slim 1 way cassette type

■ MAIN



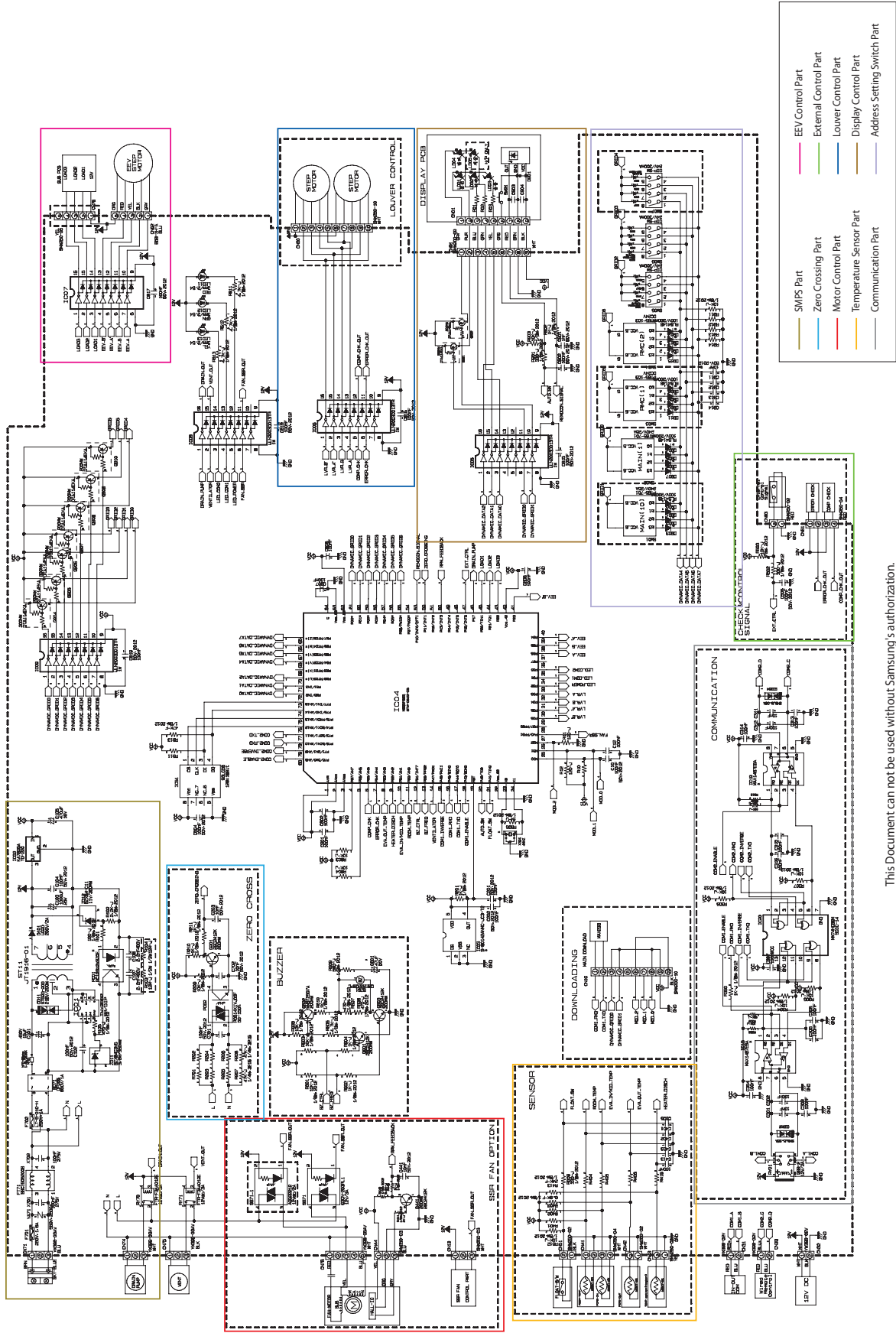
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8-1-2 4 way cassette type



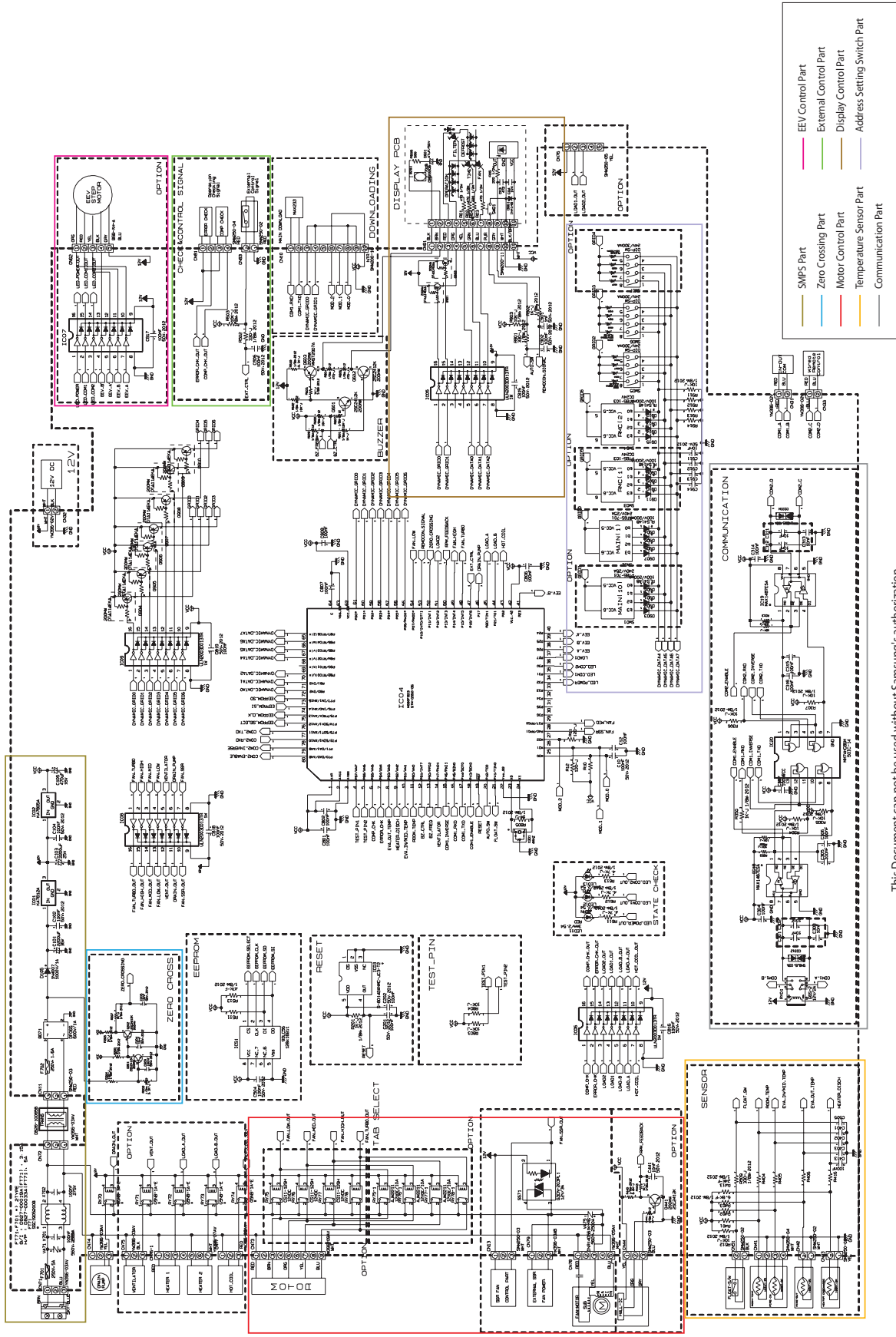
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8-1-3 Mini 4 way cassette type



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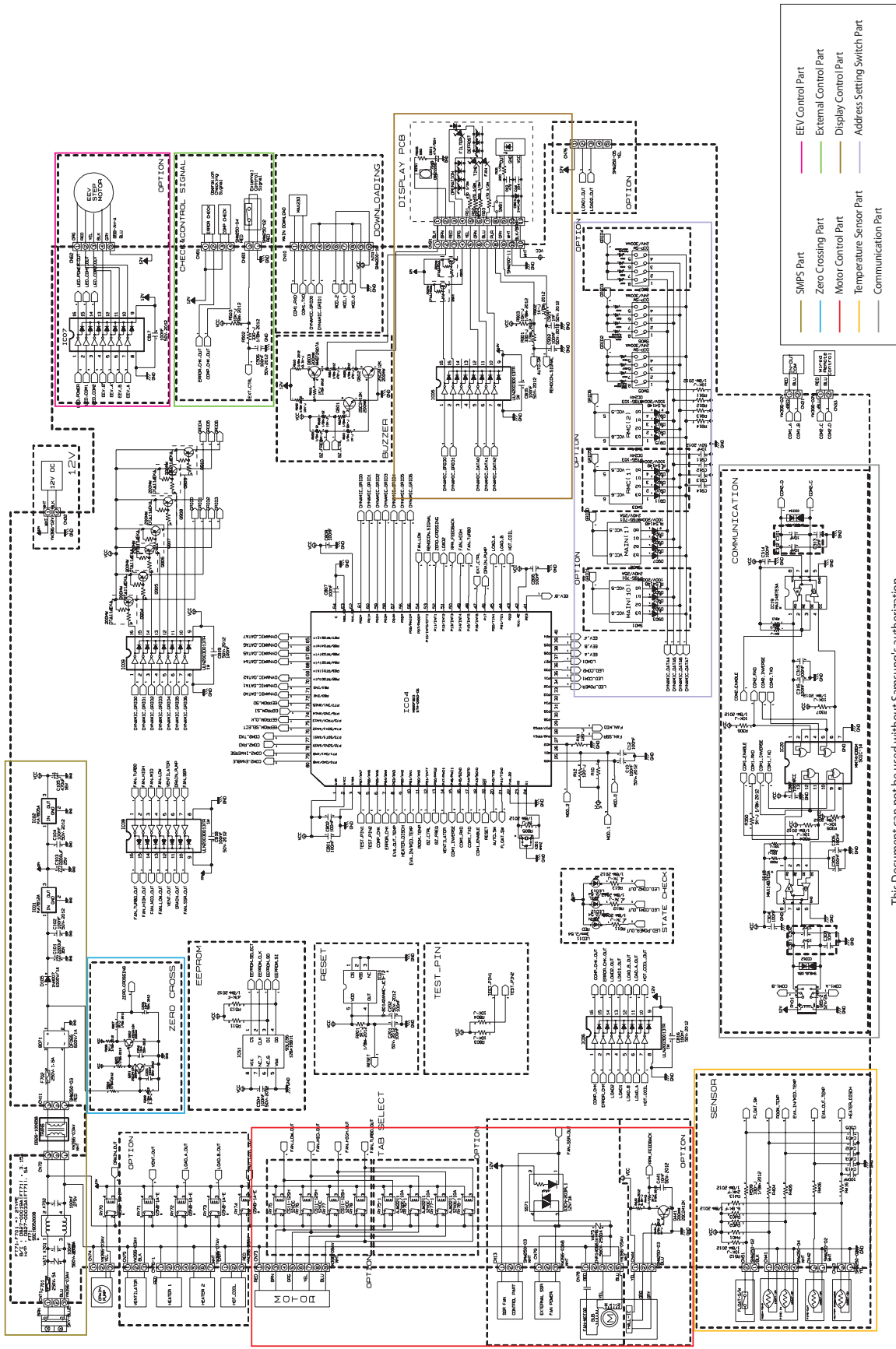
8-1-4 Duct type



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8-1-5 Duct type (BIG)

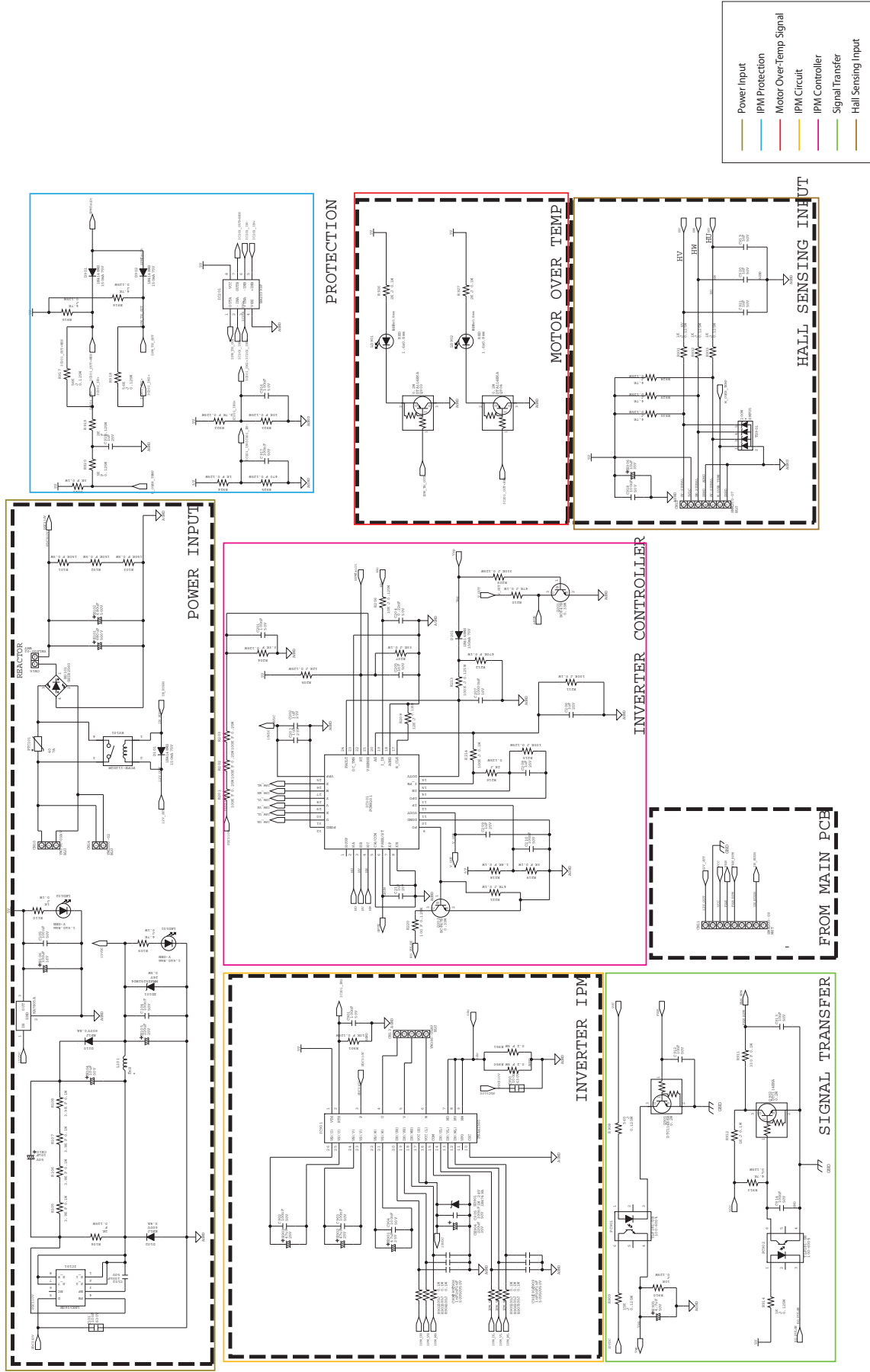
■ MAIN



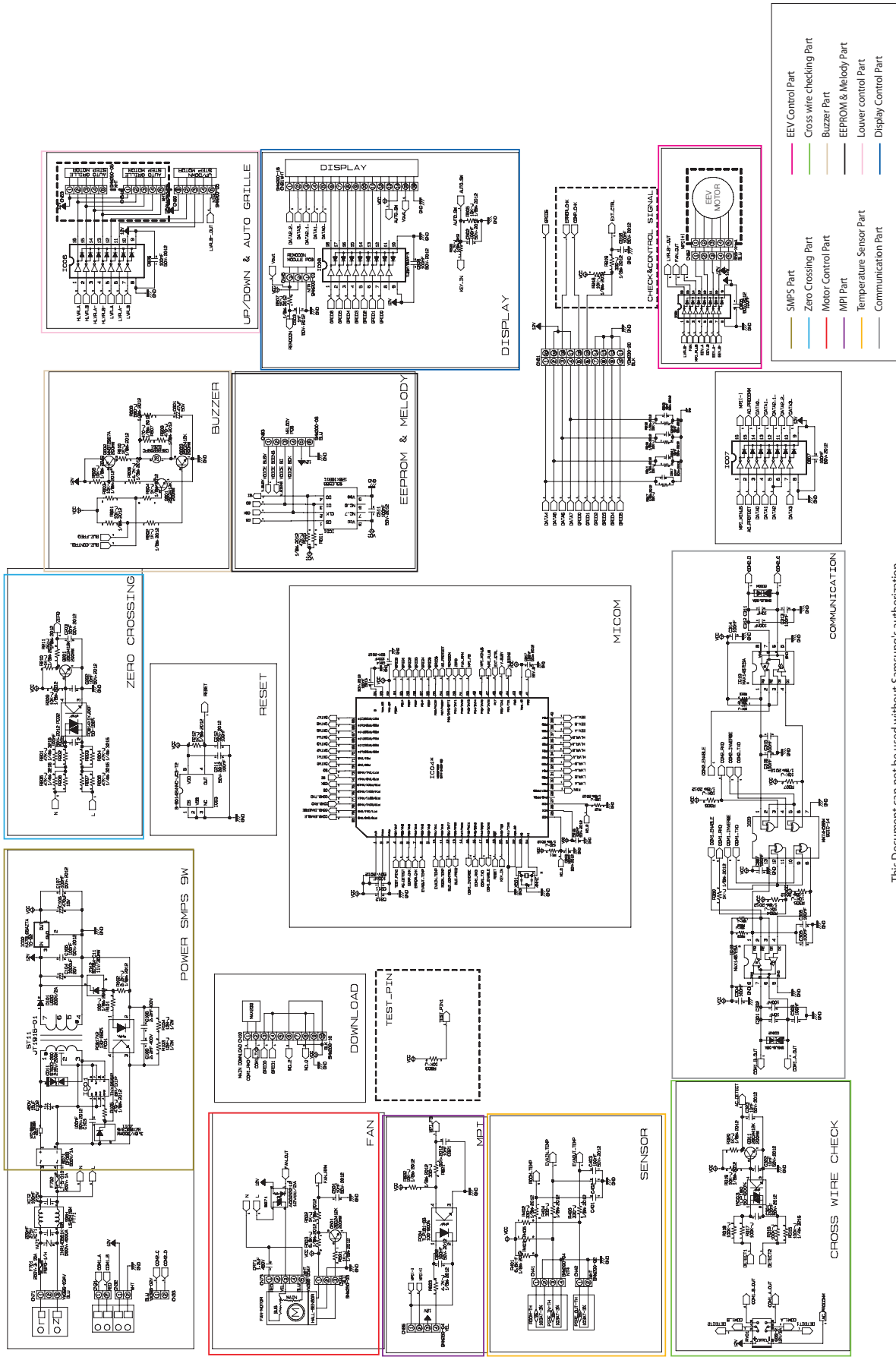
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■ BLDC

Duct type (BIG) (cont.)

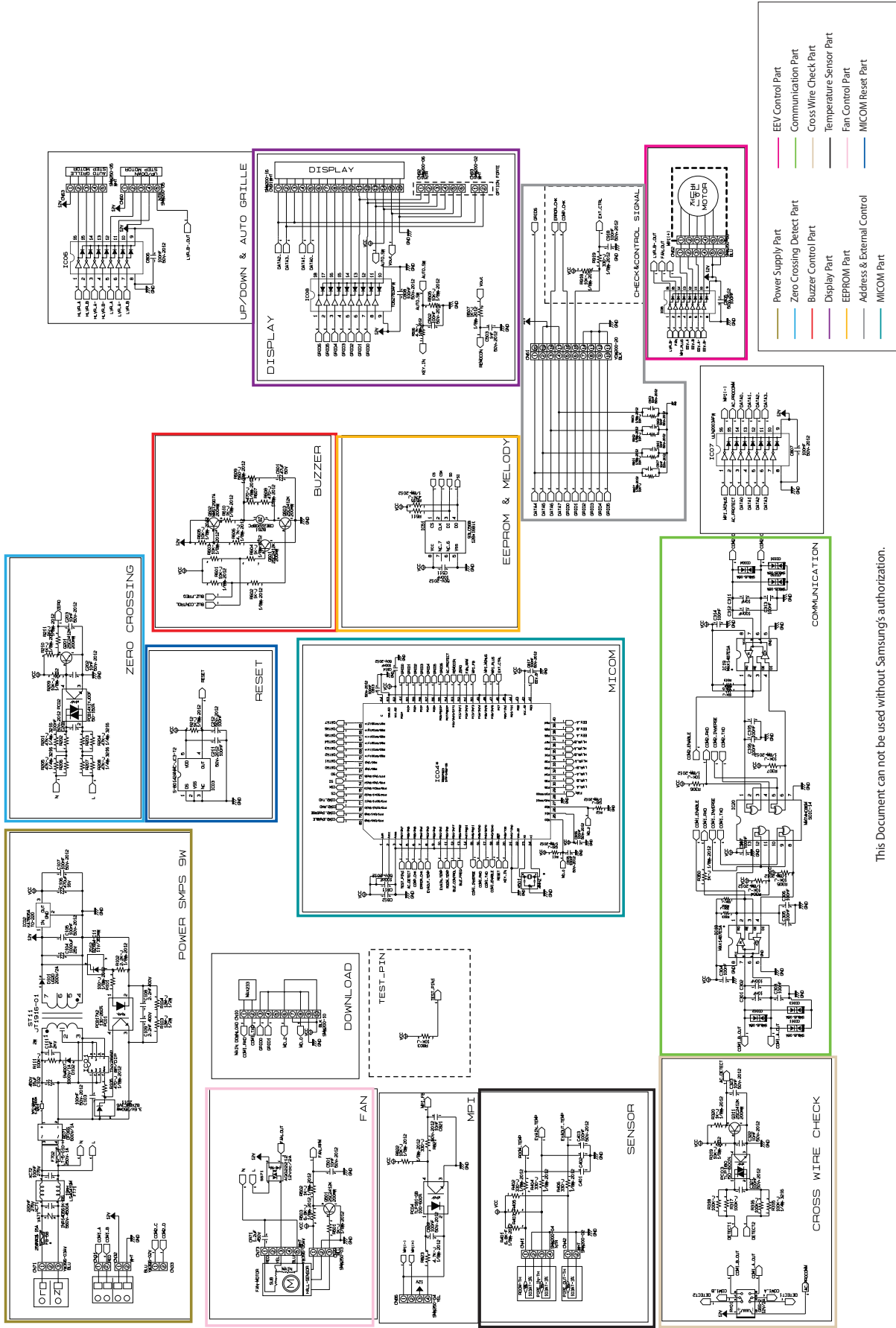


8-1-6 Wall-mounted type(Neo Forte without EEV/Vivace)



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8-1-7 Wall-mounted type(Neo Forte with EEV)

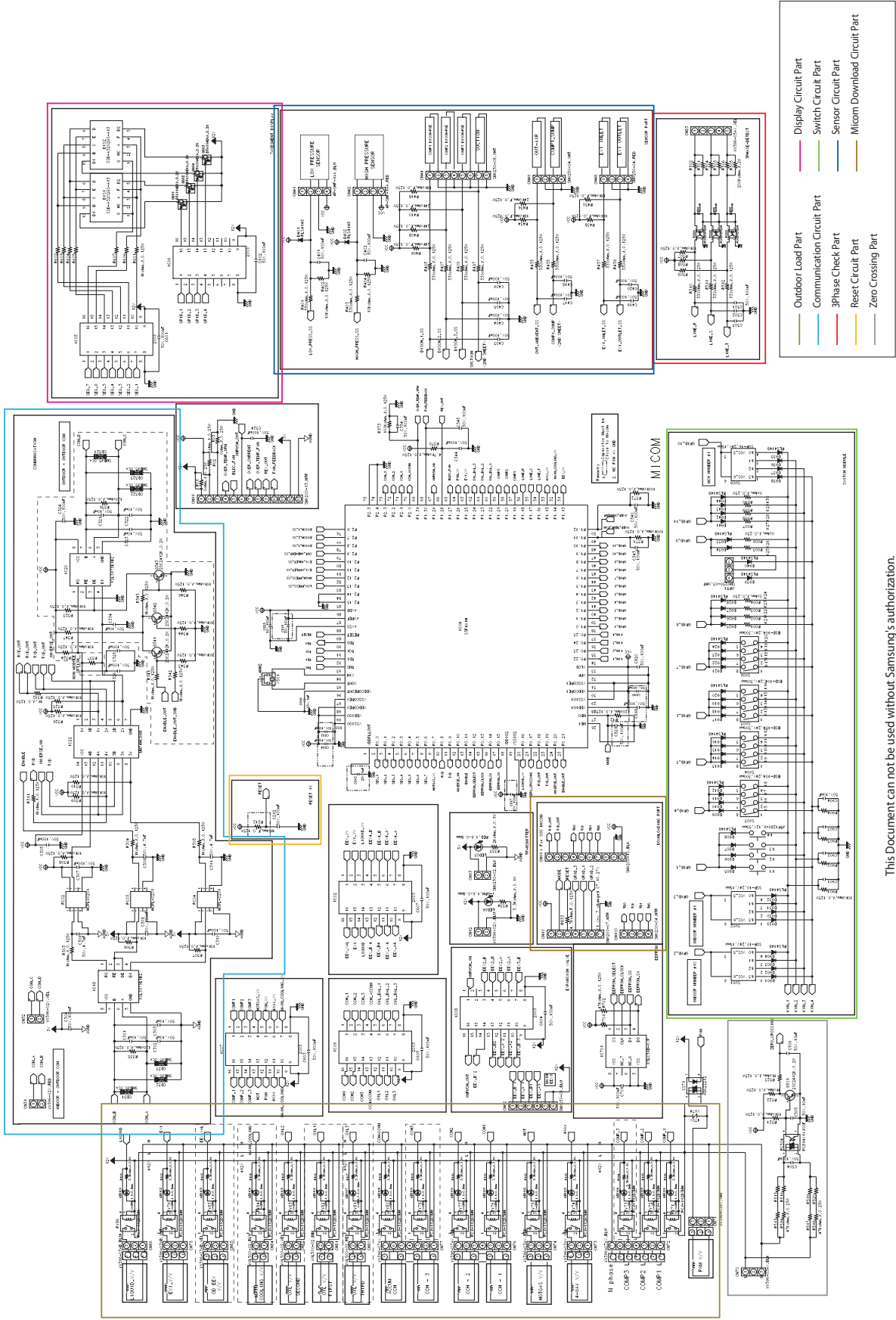


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8-2 Outdoor Unit

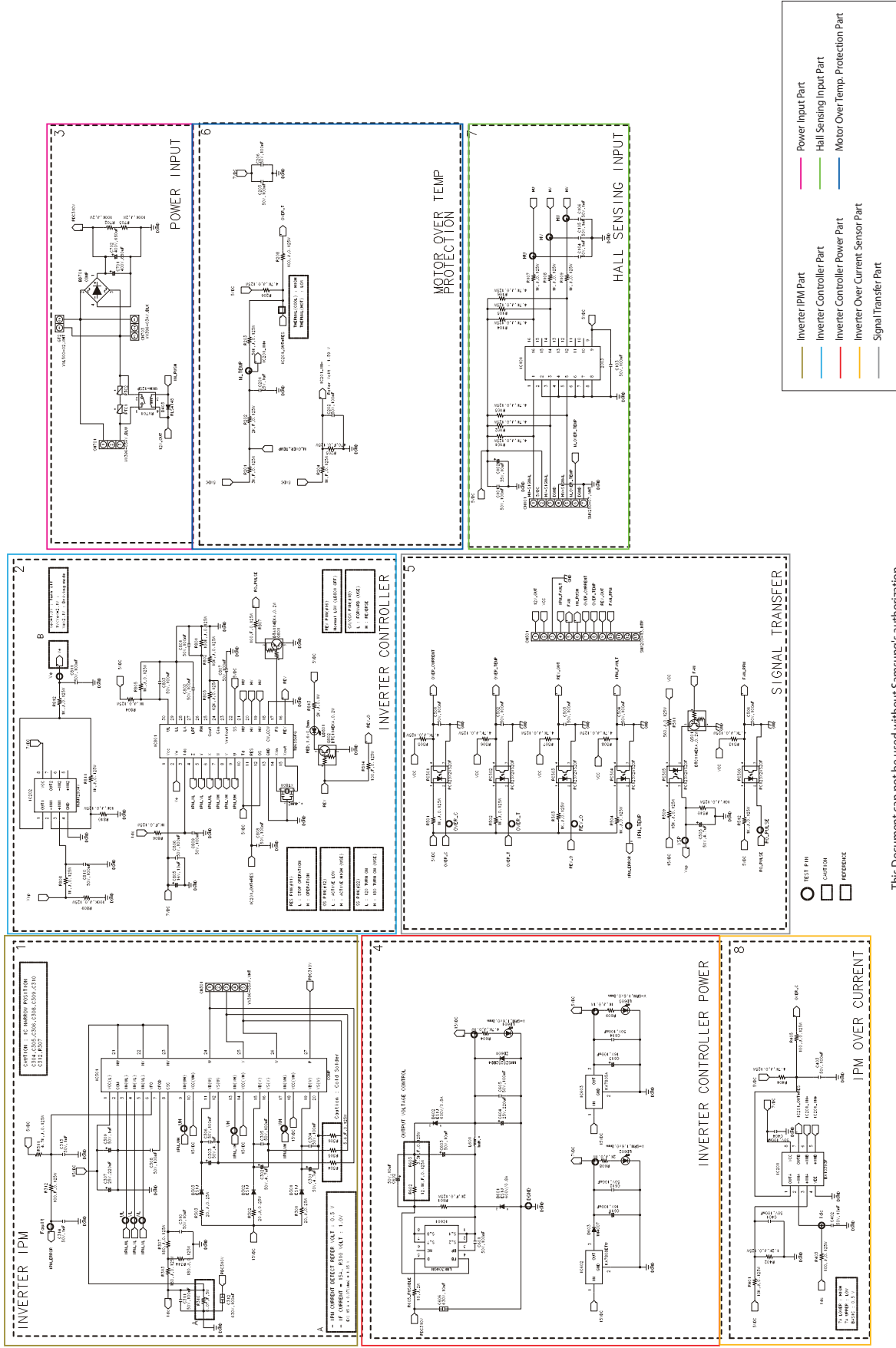
8-2-1 RVXVHT075/100/125FE, RD075/100/125VHXFA, RD075/100/125VRXFA

■ MAIN PCB 1

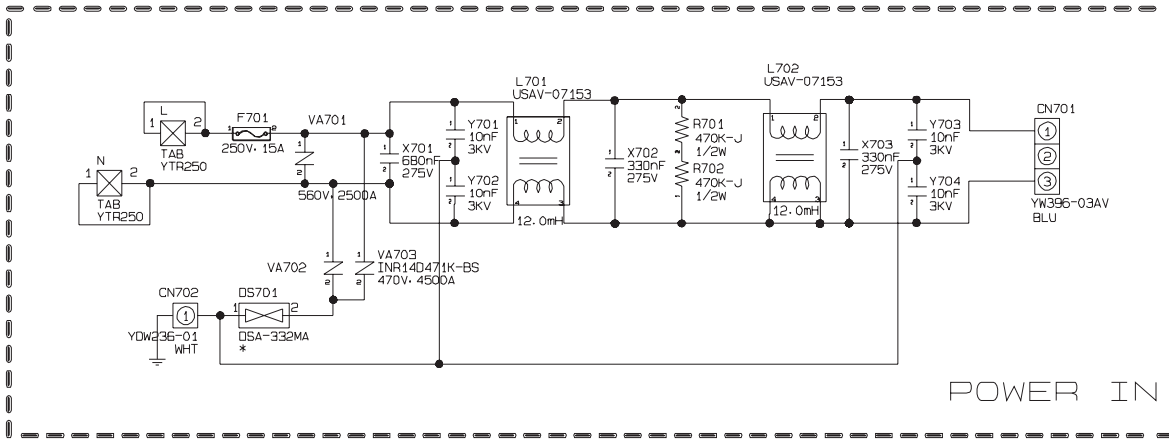


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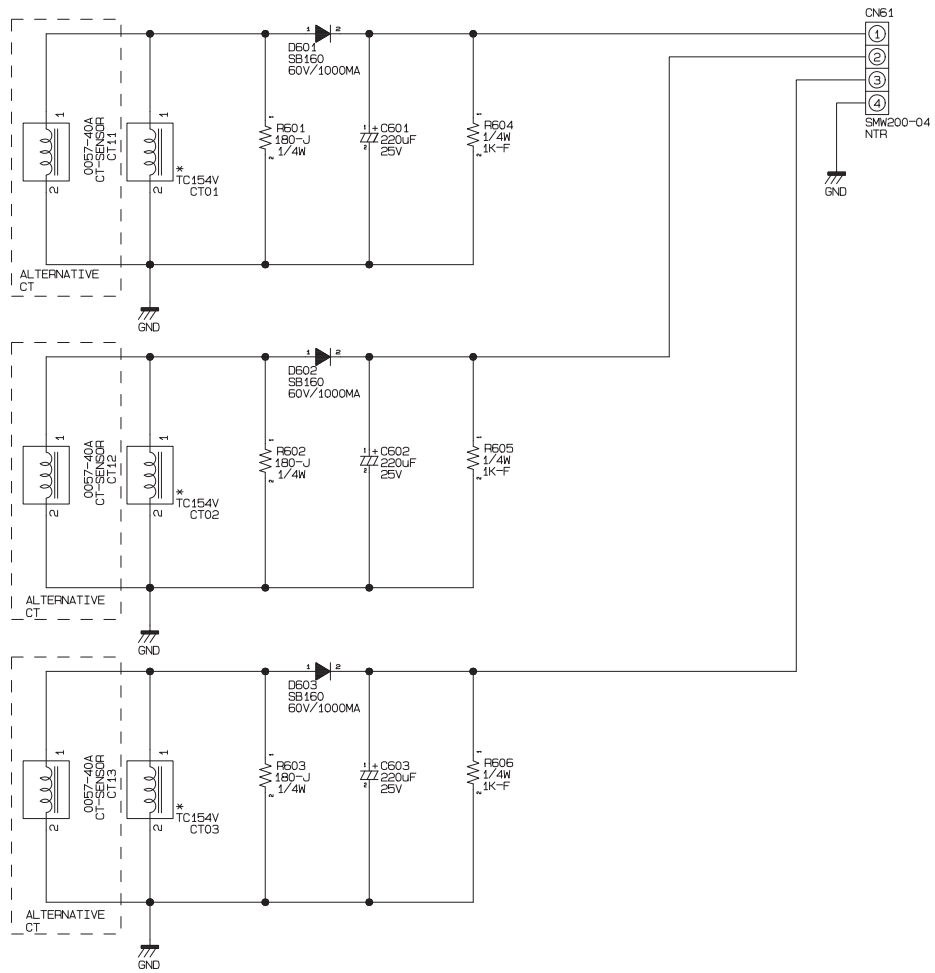
■ BLCD PCB



■ Filter PCB



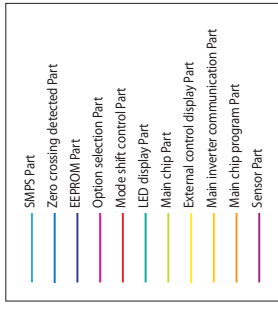
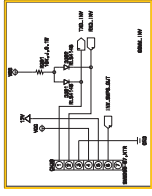
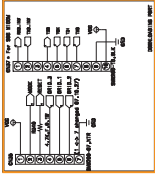
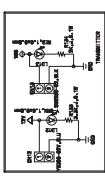
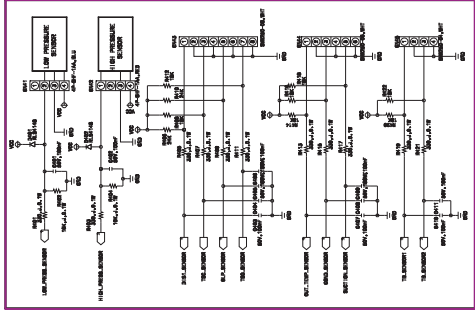
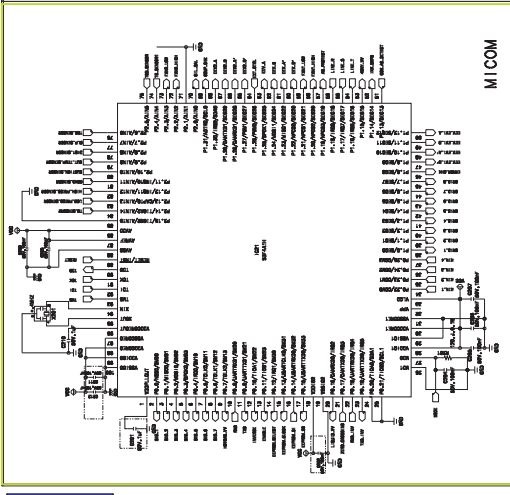
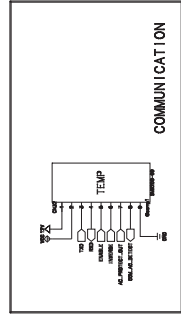
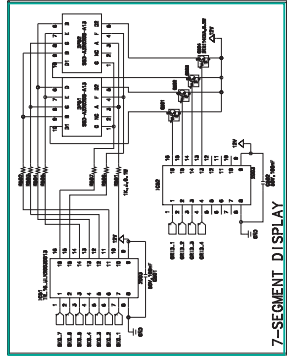
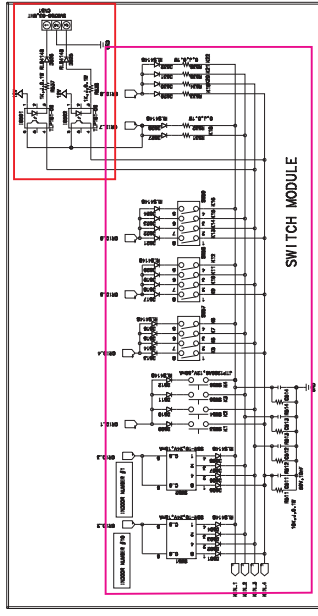
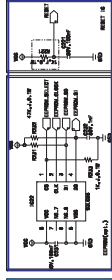
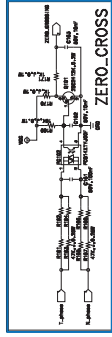
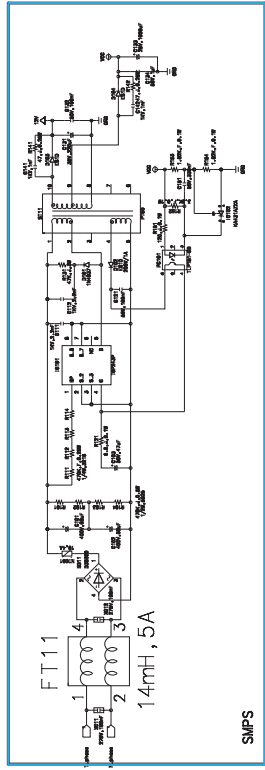
■ CT PCB



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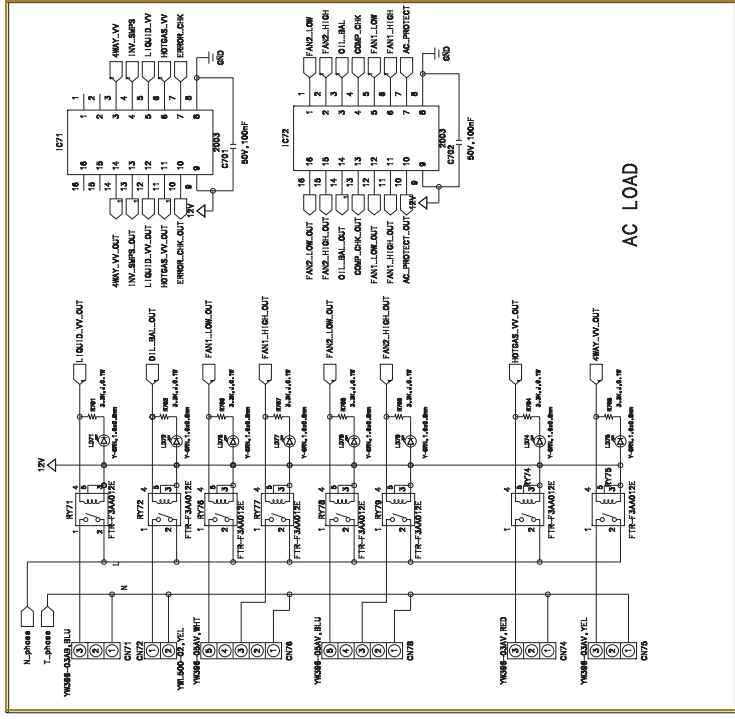
8-2-2 RD040/050MHXCA

■ MAIN PCB 1

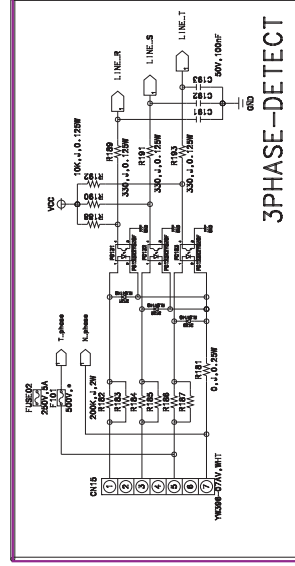


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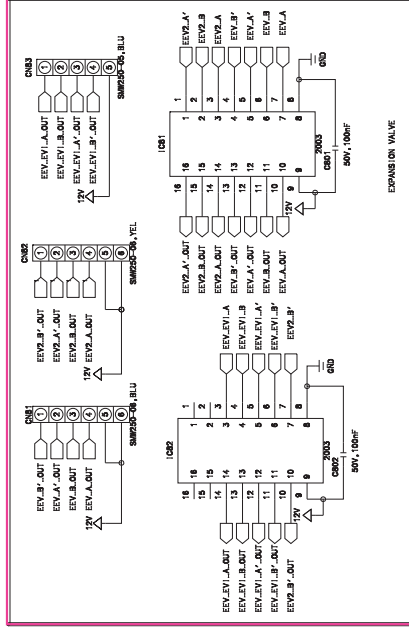
■ MAIN PCB 2



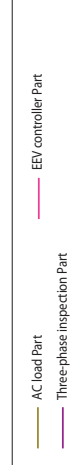
AC LOAD



3PHASE-DETECT

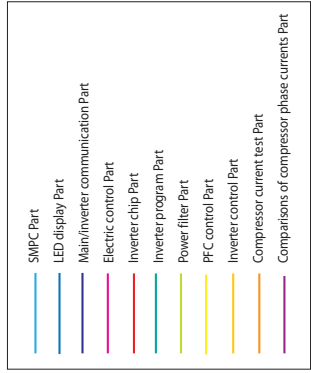
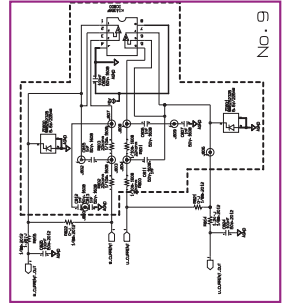
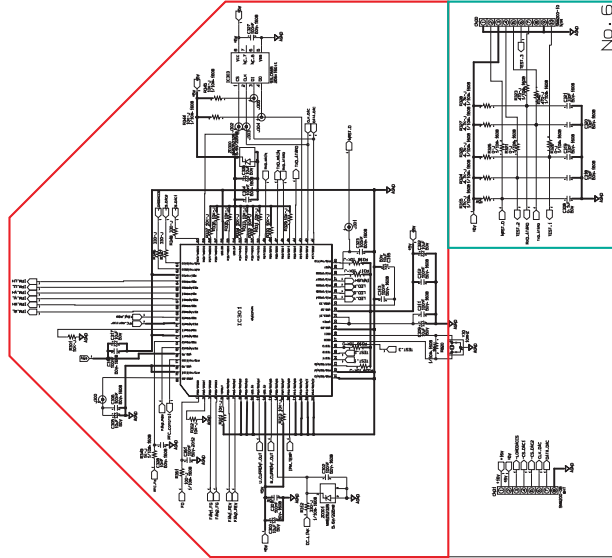
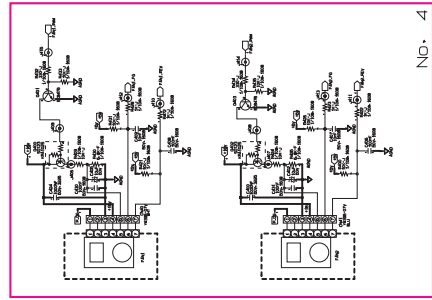
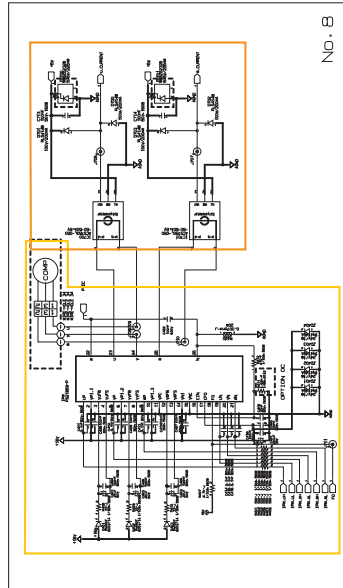
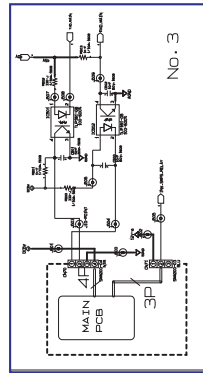
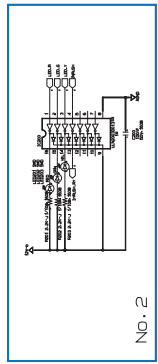
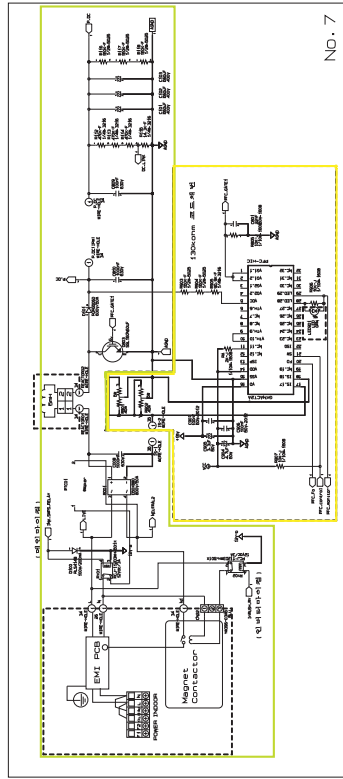
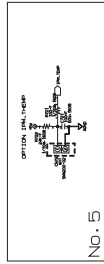
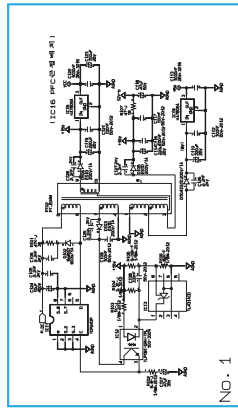


EXPANSION VALVE



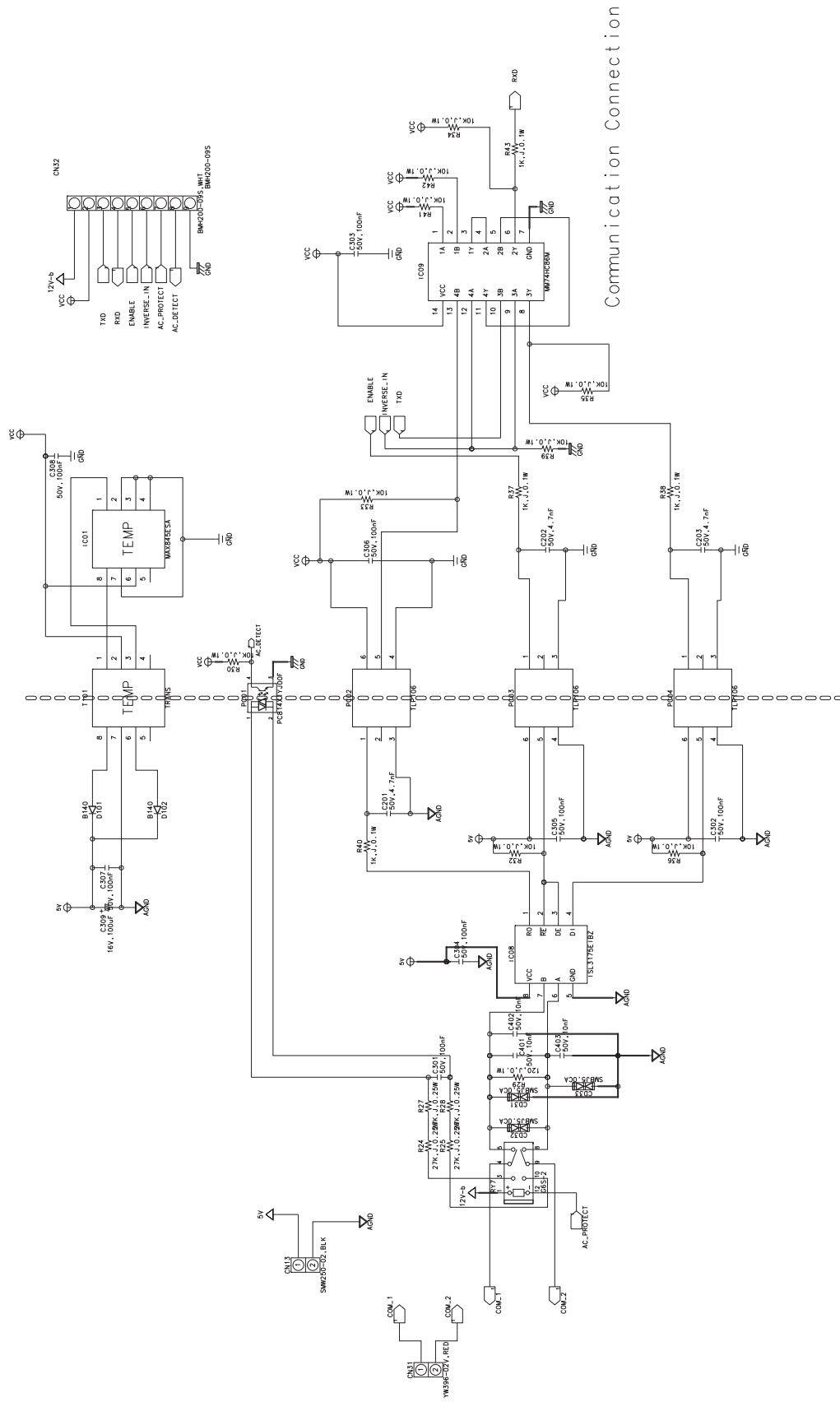
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■ INVERTER PCB



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■ COMMUNICATION PCB



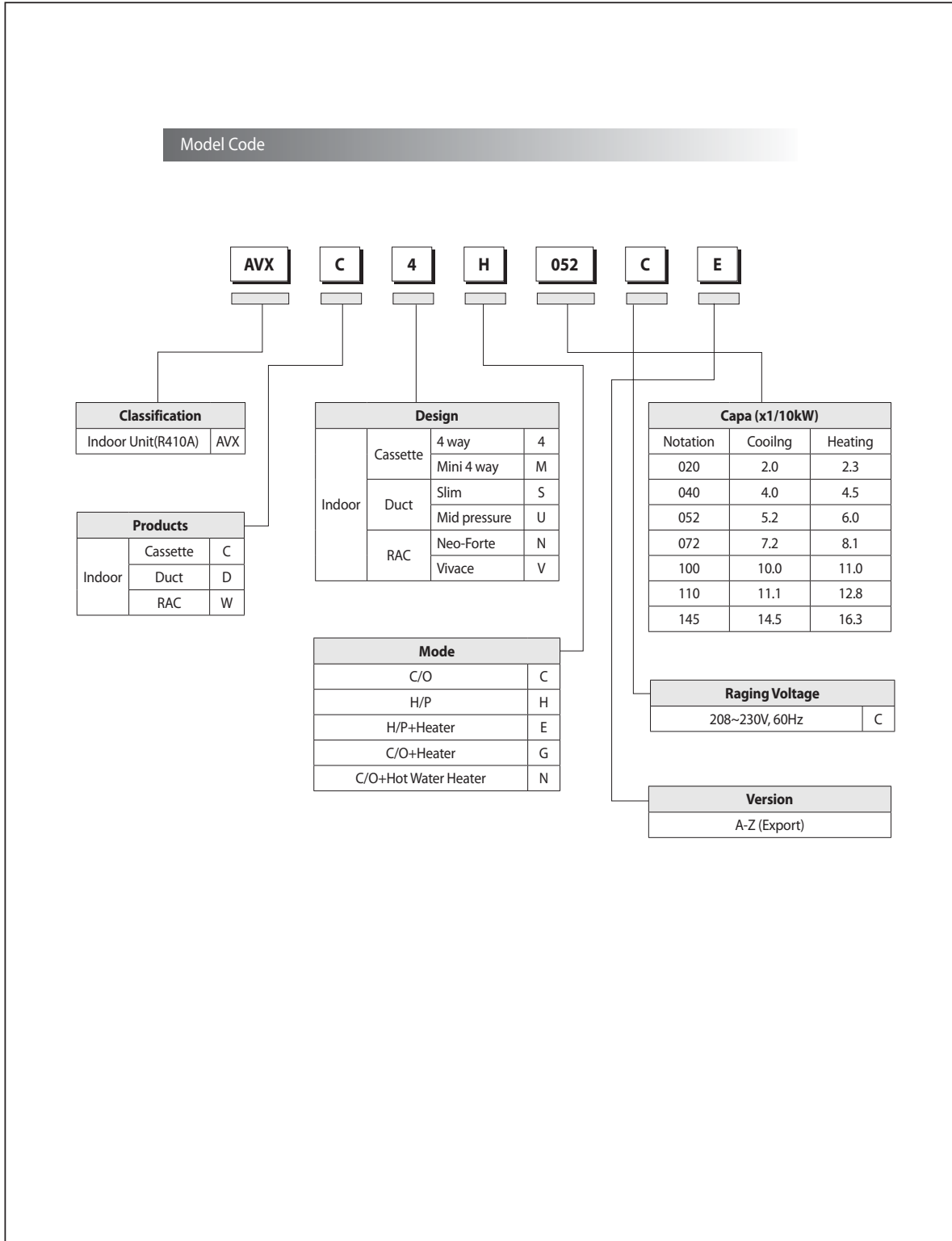
Communication Connection

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9. Reference Sheet

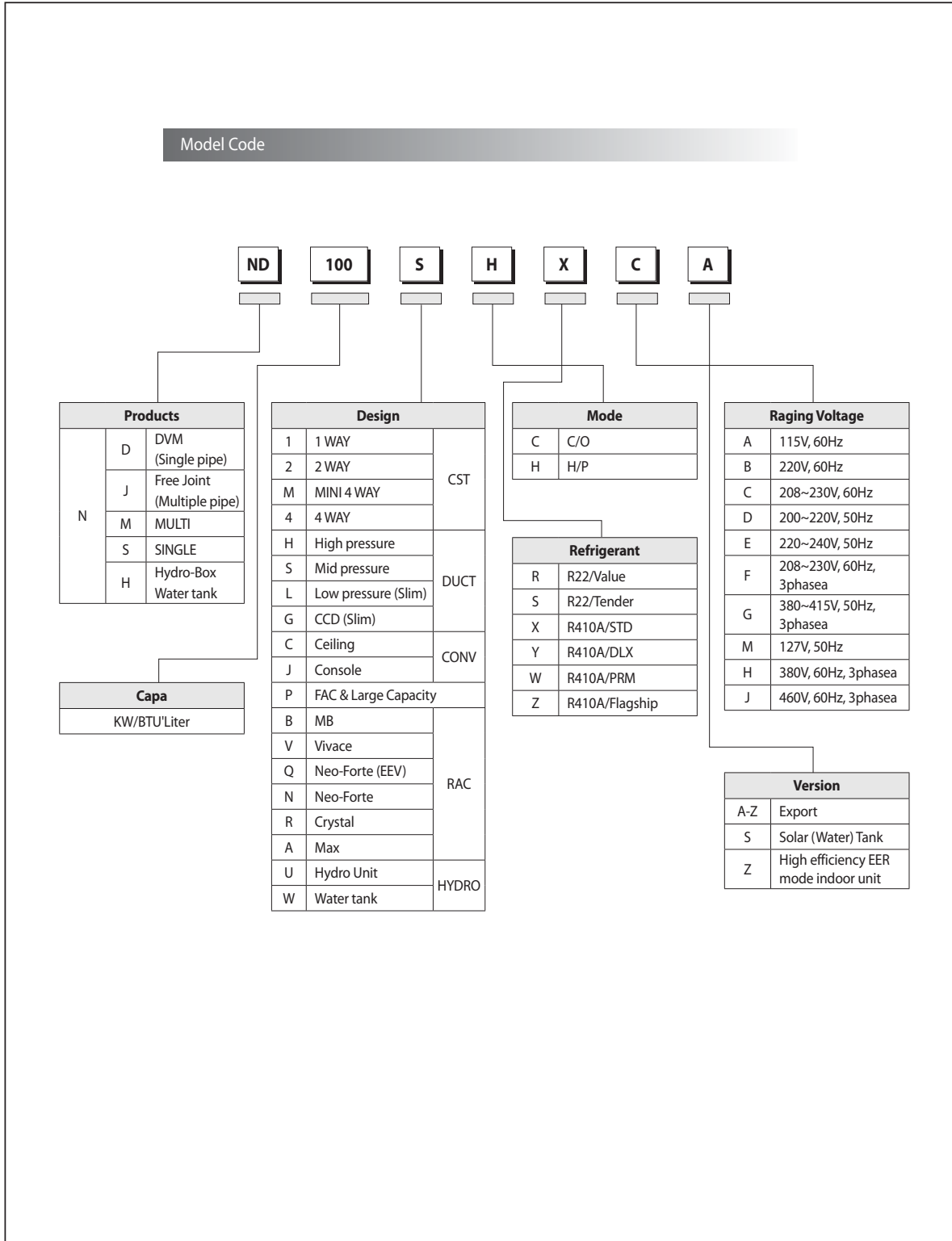
9-1 Index for Model Name

9-1-1 Indoor Unit



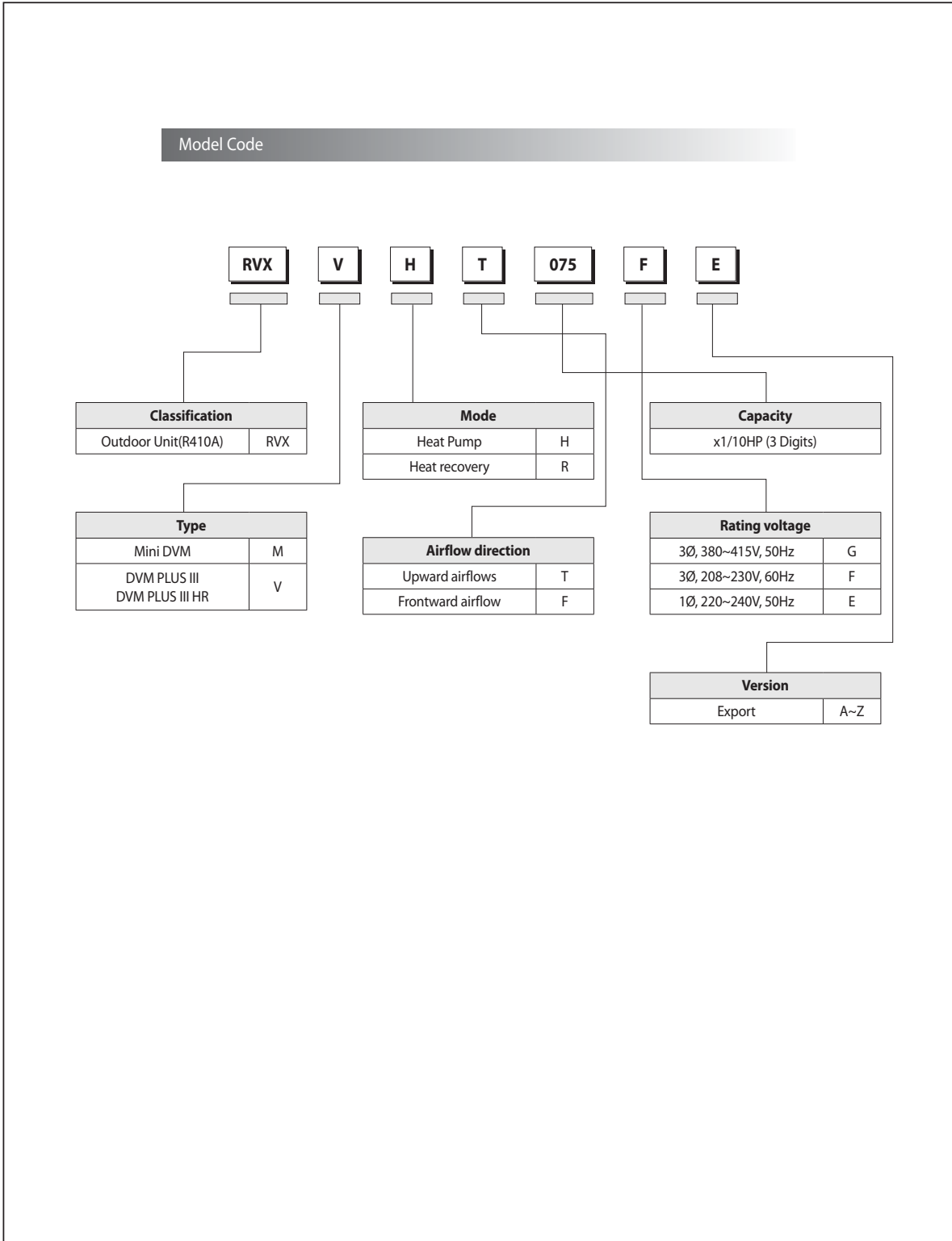
Index for Model Name(cont.)

Indoor Unit(cont.)



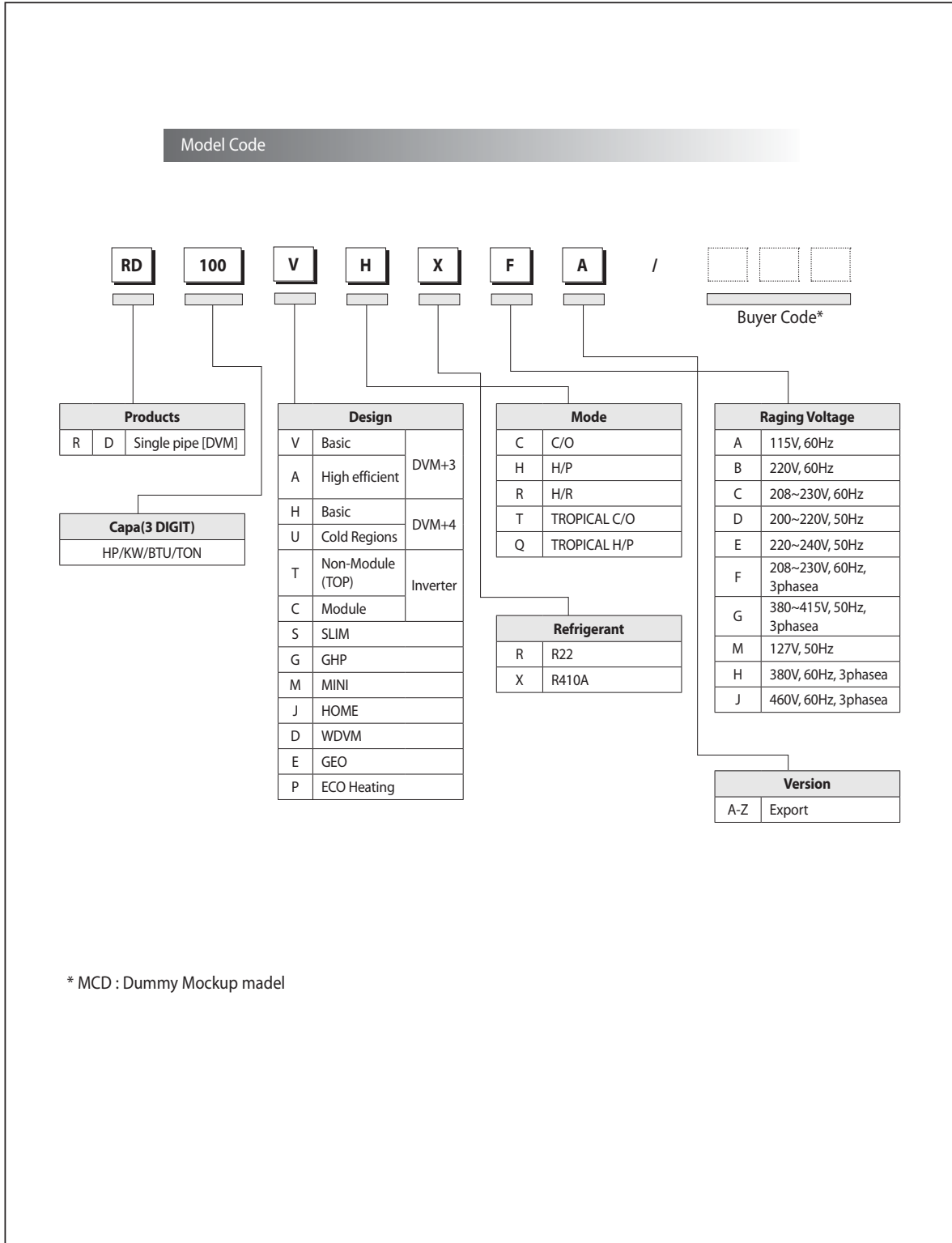
Index for Model Name(cont.)

9-1-2 Outdoor Unit



Index for Model Name(cont.)

Outdoor Unit(cont.)



9-2 Refrigerant Circuit Diagram

9-2-1 Cycle Operation Mode

9-2-1-1 RVXVHT075/100/125FE, RD075/100/125VHXFA, RD075/100/125VRXFA
















■ Description of function parts

No.	Classification	Description	No.	Classification	Description
1	A	DVI (Digital Vapor Injection) compressor	35	j	Check valve
2	B	FVI (Fixed Vapor Injection) compressor 1	36	k	Crank case heater of DVI compressor
3	C	FVI (Fixed Vapor Injection) compressor 2	37	m	Crank case heater of FVI compressor 1
4	D	PWM solenoid valve	38	n	Crank case heater of FVI compressor 2
5	E	Discharge temperature sensor of DVI compressor	39	o	Sump(Base) temperature sensor
6	F	Discharge temperature sensor of FVI compressor 1	40	p	Oil temperature sensor
7	G	Discharge temperature sensor of FVI compressor 2	41	q	Capillary tube from hot gas bypass valve
8	H	Oil separator	42	r	Capillary tube from liquid bypass valve
9	I	Capillary tube from oil separator	43	s	High pressure liquid service valve
10	J	High pressure switch	44	t	Low pressure gas service valve only for HR/MCU unit
11	K	Hot gas bypass solenoid valve	45	u	EEV of indoor unit
12	L	Check valve	46	v	Eva_in temperature sensor
13	M	High pressure sensor	47	w	Heat exchanger of indoor unit (Evaporating unit)
14	N	Reversing solenoid valve (4way valve)	48	x	Eva_out temperature sensor
15	O	Heat exchanger of outdoor unit (Condensing unit)	49	y	HR check valve
16	P	Ambient air temperature sensor	50	z	Main cooling check valve
16	Q	Cond_out temperature sensor	51	Ⓐ	Main cooling pilot solenoid valve
17	R	Main EEV 1 (For heating operation)	52	Ⓑ	Outdoor pilot solenoid valve
18	S	Main EEV 2 (For heating operation)	53	Ⓒ	HR EEV
19	T	Check valve	54	Ⓓ	HR EEV check valve
20	U	Liquid bypass solenoid valve	55	Ⓔ	High pressure gas service valve in HR/MCU unit Low pressure gas service valve in HP unit (Heat Pump)
20	V	EVI EEV	56	Ⓕ	Heating solenoid valve
21	W	Turbo Intercooler	57	Ⓖ	Cooling solenoid valve
22	X	EVI_in temperature sensor	58	Ⓖ	MCU liquid bypass solenoid valve
23	Y	EVI_out temperature sensor	59	Ⓘ	MCU main heating pilot solenoid valve
25	Z	Liquid tube temperature sensor	60	Ⓙ	MCU EEV
26	a	EVI bypass pilot solenoid valve	61	Ⓚ	Sub cooler_in temperature sensor
27	b	Suction temperature sensor	62	Ⓜ	Sub cooler
28	c	Accumulator	63	Ⓝ	Sub cooler_out temperature sensor
29	d	Accumulator CCH (Crank Case Heater)	64	Ⓞ	Sub cooler EEV
30	e	Oil solenoid valve 1	65	Ⓟ	Liquid service valve between MCU & Indoor unit
31	f	Oil solenoid valve 2	66	Ⓠ	CGas service valve between MCU & Indoor unit
32	g	Oil solenoid valve 3	67	Ⓡ	EEV bypass service valve
33	h	Oil balancing service valve between units	68	Ⓢ	EEVs for wall mount & ceiling unit in MCU
34	i	Low pressure sensor			

Cycle Operation Mode(cont.)

RVXVHT075/100/125FE, RD075/100/125VHXFA, RD075/100/125VRXFA(cont.)

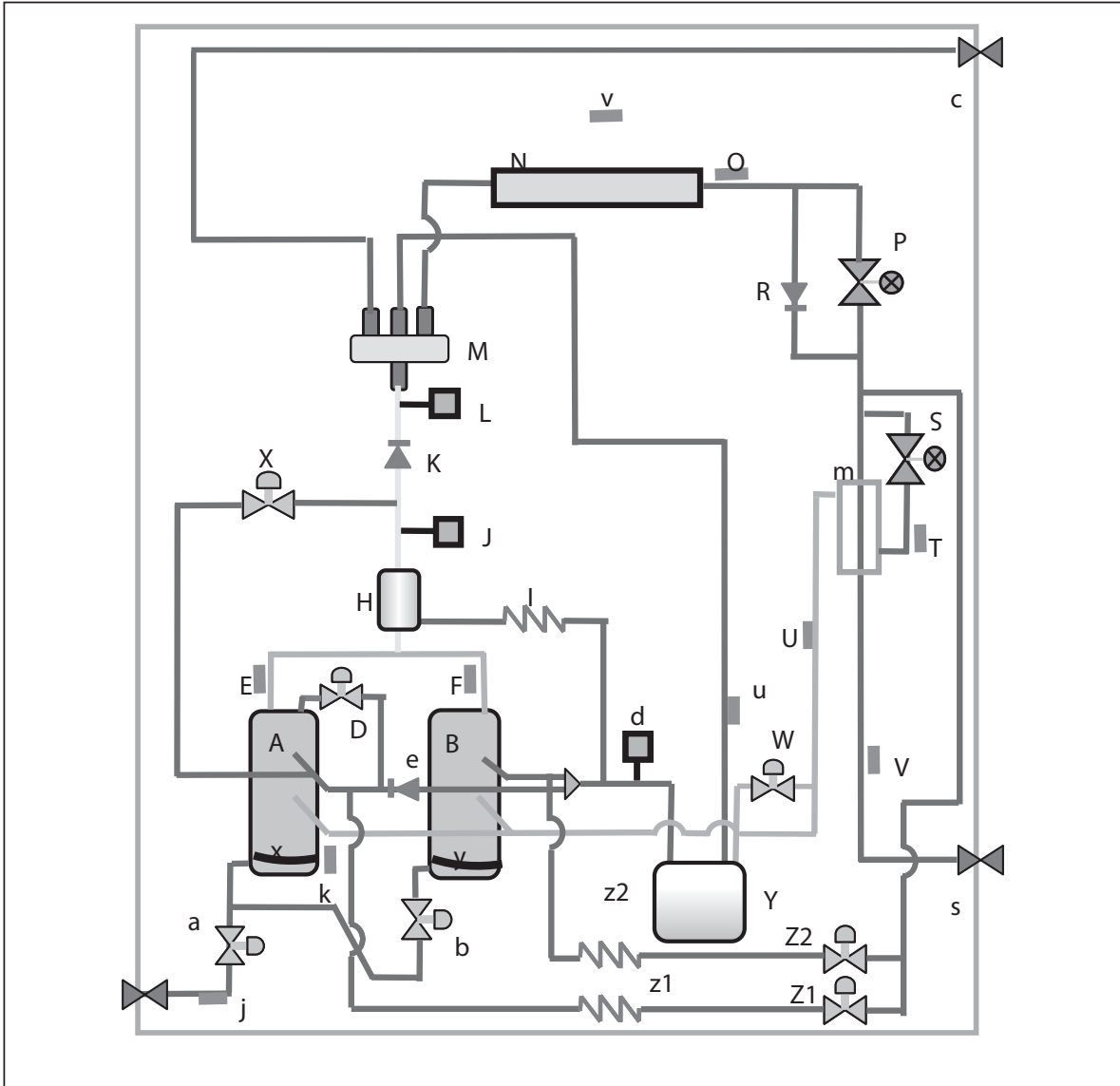
■ Sign of Cycle of Function Parts

Category		Descriptions		
1	Sensor	Temperature		Temperature sensor
		Pressure		High / Low pressure sensor
2	Valve	Solenoid		Solenoid valve
		Pilot Solenoid		Pilot solenoid valve
		Expansion		Electronic Expansion Valve (EEV)
		Reversing		Reversing valve (4 way valve)
		Check		Check valve
		Service		Service valve (Angle & ball type)
3	Switch & Heater	Pressure Switch		High pressure switch (Mechanical type)
		Heater		Electric heater
4	Others	Compressor		DVI (Digital Vapor Injection) Compressor FVI (Fixed Vapor Injection) Compressor
		Accumulator		Accumulator
		Heat Exchanger		Condensing or Evaporating unit
		Sub cooler		Turbo intercooler or Sub cooler
		Capillary		Capillary tube

Cycle Operation Mode(cont.)

RVXVHT075/100/125FE, RD075/100/125VHXFA(cont.)

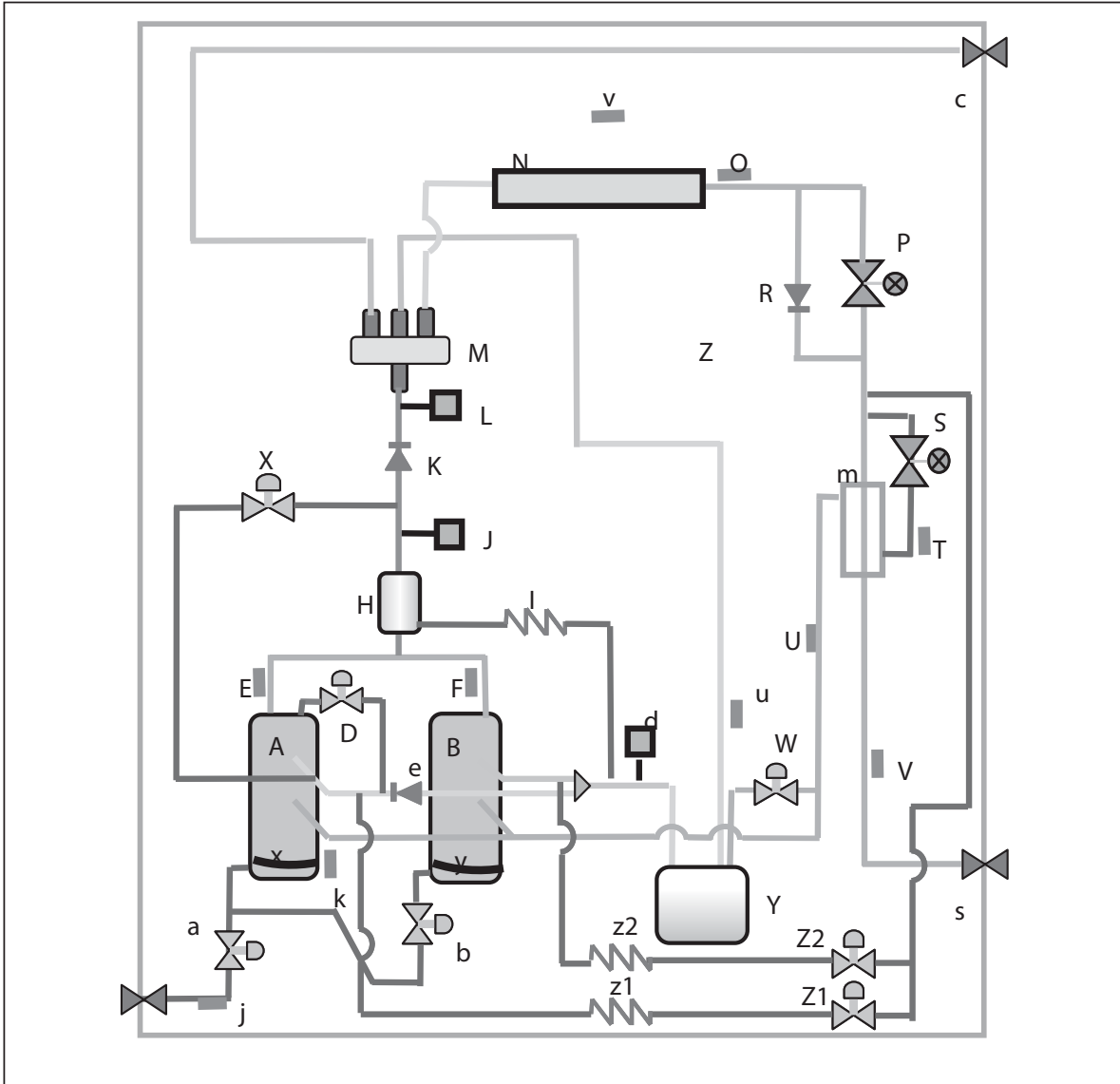
■ **RVXVHT075/100FE, RD075/100VHXFA (DVM PLUSIII - 7.5/10HP)**



Cycle Operation Mode(cont.)

RVXVHT075/100/125FE, RD075/100/125VHXFA(cont.)

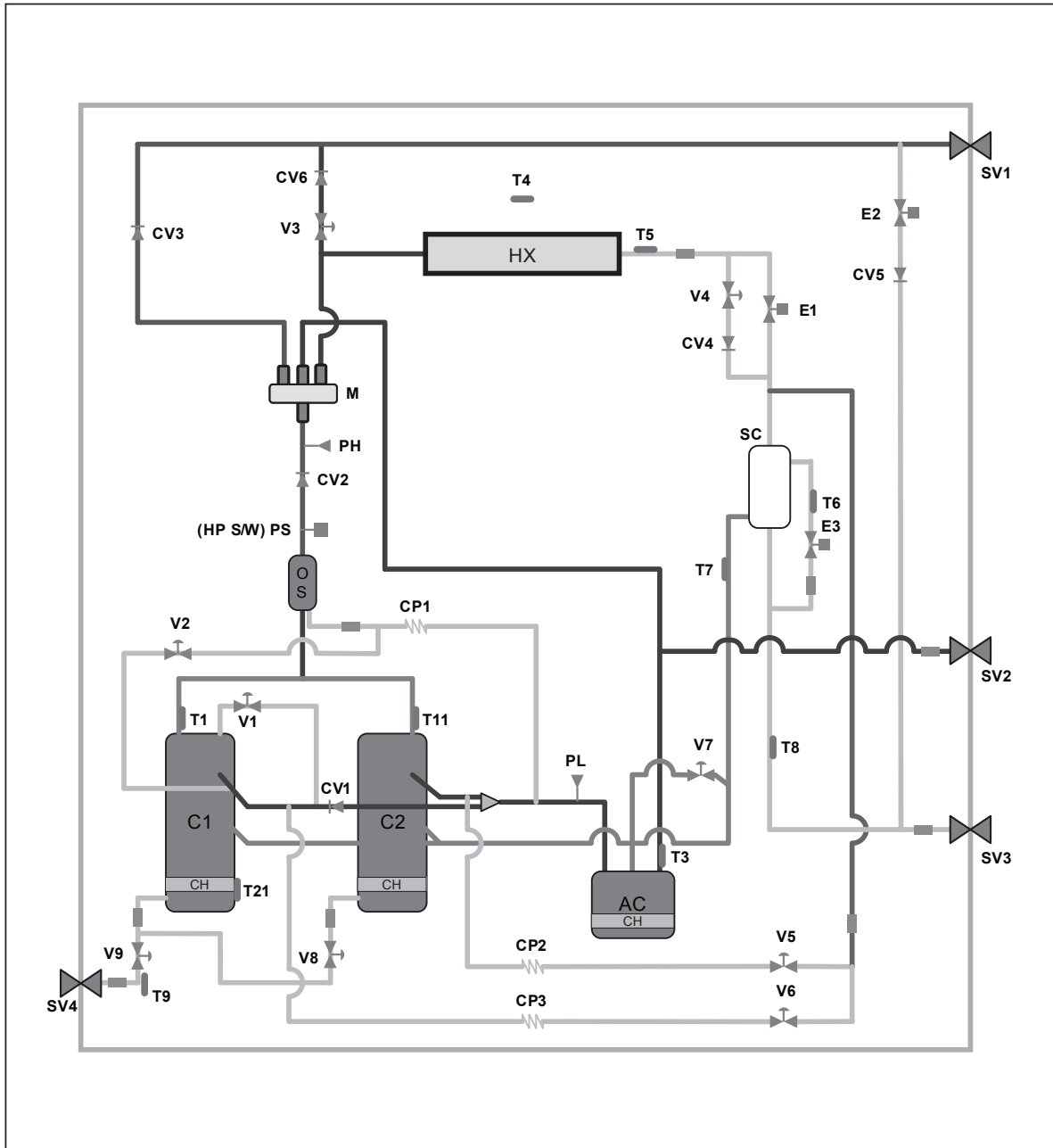
■ **RVXVHT125FE, RD125VHXFA (DVM PLUSIII - 12.5HP)**



Cycle Operation Mode(cont.)

RD075/100VRXFA

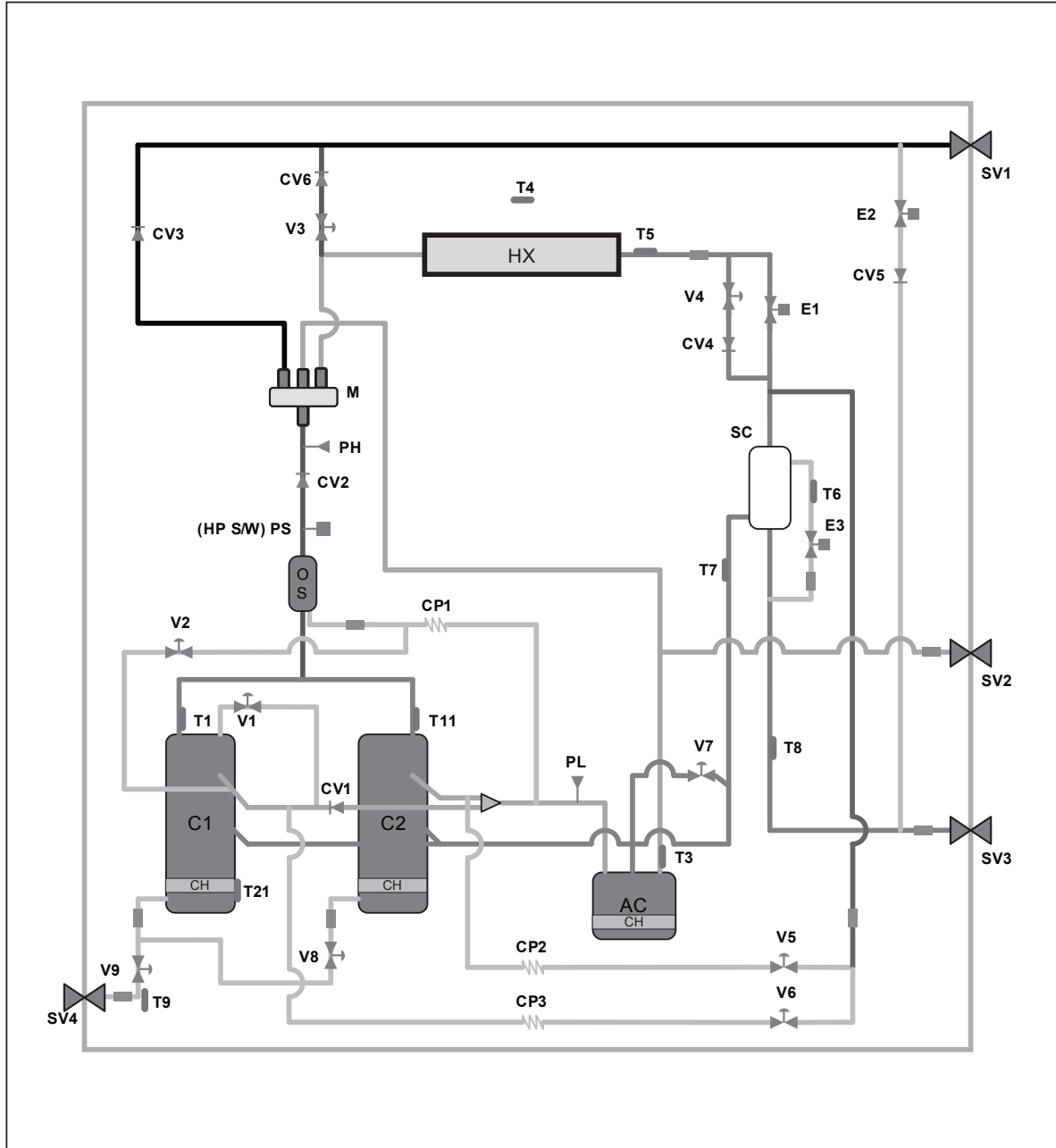
■ RD075/100VRXFA (DVM PLUSIII HR - 7.5/10HP)



Cycle Operation Mode(cont.)

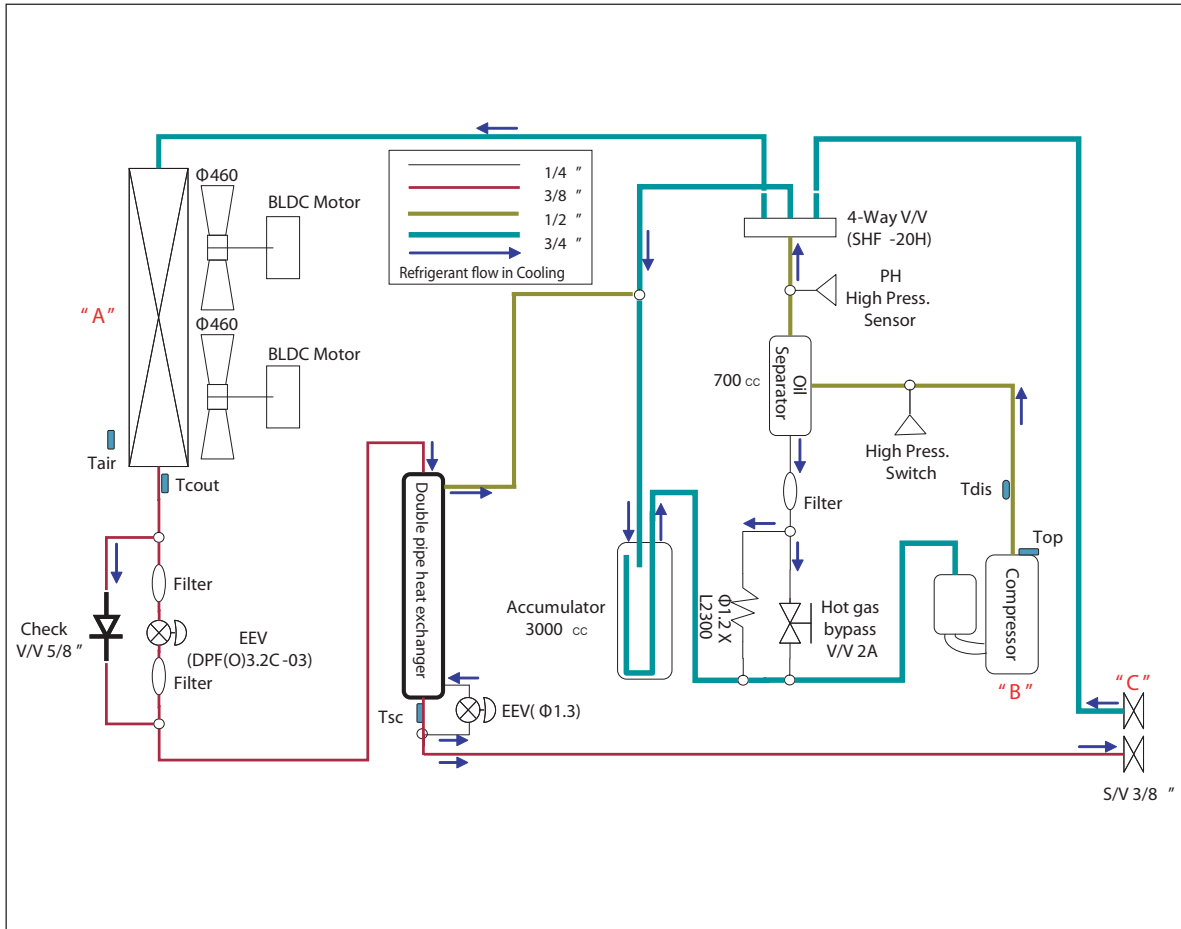
RD125VRXFA

■ RD125VRXFA (DVM PLUSIII HR - 125HP)



Cycle Operation Mode(cont.)

9-2-1-2 RD040/050MHXA



Mark	Name	4HP	5HP
A	Outdoor unit heat exchanger	2Row 52Column, Ø7, FP1.5	2Row 52Column, Ø8, FP1.5
B	Compressor	G5T360FUA EK	G5T450FUCEX
C	Low Pressure	5/8"	5/8"



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