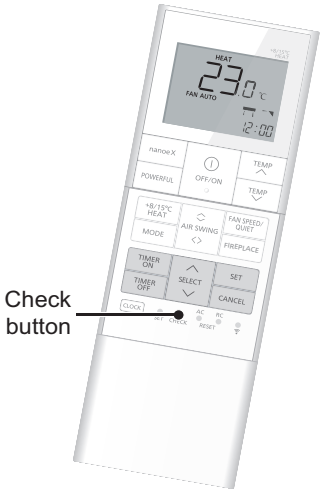
17.2 Breakdown Self Diagnosis Function

17.2.1 Self Diagnosis Function (Three Digits Alphanumeric Code)

- Once abnormality has occurred during operation, the unit will stop its operation, and Timer LED blinks.
- Although Timer LED goes off when power supply is turned off, if the unit is operated under a breakdown condition, the LED will light up again.
- In operation after breakdown repair, the Timer LED will no more blink. The last error code (abnormality) will be stored in IC memory.

17.2.2 To Make a Diagnosis



1 Timer LED start to blink and the unit automatically stops the operation.
2 Press the CHECK button on the remote controller continuously for 5 seconds.
3 "- -" will be displayed on the remote controller display.
Note: Display only for "- -". (No transmitting signal, no receiving sound and no Power LED blinking.)
4 Press the "TIMER" ▲ or ▼ button on the remote controller. The code "H00" (no abnormality) will be displayed and signal will be transmitted to the main unit.
5 Each press of the button (▲ or ▼) will increase error code number and transmit error code signal to the main unit.
6 When the latest abnormality code on the main unit and code transmitted from the remote controller are matched, power LED will light up for 30 seconds and a beep sound (continuously for 4 seconds) will be heard. If no codes are matched, power LED will light up for 0.5 seconds and no sound will be heard.
7 The breakdown diagnosis mode will be canceled unless pressing the CHECK button continuously for 5 seconds or operating the unit for 30 seconds.
8 The LED will be off if the unit is turned off or the RESET button on the main unit is pressed.

17.2.3 To Display Memorized Error (Protective Operation) Status

1 Turn power on.
2 Press the CHECK button on the remote controller continuously for 5 seconds
3 "- -" will be displayed on the remote controller display.
Note: Display only for "- -". (No transmitting signal, no receiving sound and no Power LED blinking.)
4 Press the "TIMER" ▲ or ▼ button on the remote controller. The code "H00" (no abnormality) will be displayed and signal will be transmitted to the main unit.
The power LED lights up. If no abnormality is stored in the memory, three beeps sound will be heard.
5 Each press of the button (▲ or ▼) will increase error code number and transmit error code signal to the main unit.
6 When the latest abnormality code on the main unit and code transmitted from the remote controller are matched, power LED will light up for 30 seconds and a beep sound (continuously for 4 seconds) will be heard. If no codes are matched, power LED will light up for 0.5 seconds and no sound will be heard.
7 The breakdown diagnosis mode will be canceled unless pressing the CHECK button continuously for 5 seconds or operating the unit for 30 seconds.
8 The same diagnosis can be repeated by turning power on again.

17.2.4 To Clear Memorized Error (Protective Operation) Status after Repair:

1 Turn power on (in standby condition).
2 Press the AUTO button for 5 seconds (A beep receiving sound) on the main unit to operate the unit at Forced Cooling Operation modes.
3 Press the CHECK button on the remote controller for about 1 second with a pointed object to transmit signal to main unit. A beep sound is heard from main unit and the data is cleared.

17.2.5 Temporary Operation (Depending On Breakdown Status)

1 Press the AUTO button (A beep receiving sound) on the main unit to operate the unit. (Remote control will become possible.)
2 The unit can temporarily be used until repaired.

17.3 Error Code Table

Diagnosis display	Abnormality / Protection control	Abnormality Judgment	Protection Operation	Problem	Check location
H00	No memory of failure	—	Normal operation	—	—
H11	Indoor/outdoor abnormal communication	After operation for 1 minute	Indoor fan only operation can start by entering into force cooling operation	Indoor/outdoor communication not establish	• Indoor/outdoor wire terminal • Indoor/outdoor PCB • Indoor/outdoor connection wire
H12	Indoor unit capacity unmatched	90s after power supply	—	Total indoor capability more than maximum limit or less than minimum limit, or number of indoor unit less than two	• Indoor/outdoor connection wire • Indoor/outdoor PCB • Specification and combination table in catalogue
H14	Indoor intake air temperature sensor abnormality	Continuous for 5s	—	Indoor intake air temperature sensor open or short circuit	• Indoor intake air temperature sensor lead wire and connector
H15	Compressor temperature sensor abnormality	Continuous for 5s	—	Compressor temperature sensor open or short circuit	• Compressor temperature sensor lead wire and connector
H16	Outdoor current transformer (CT) abnormality	—	—	Current transformer faulty or compressor faulty	• Outdoor PCB faulty or compressor faulty
H19	Indoor fan motor merchanism lock	Continuous happen for 7 times	—	Indoor fan motor lock or feedback abnormal	• Fan motor lead wire and connector • Fan motor lock or block
H23	Indoor heat exchanger temperature sensor abnormality	Continuous for 5s	—	Indoor heat exchanger temperature sensor open or short circuit	• Indoor heat exchanger temperature sensor lead wire and connector
H24	Indoor heat exchanger temperature sensor 2 abnormality	Continuous for 5s	—	Indoor heat exchanger temperature sensor 2 open or short circuit	• Indoor heat exchanger temperature sensor 2 lead wire and connector
H25	Indoor ion device abnormality	Port is ON for 10s during ion device off	—	—	• ion device PCB
H27	Outdoor air temperature sensor abnormality	Continuous for 5s	—	Outdoor air temperature sensor open or short circuit	• Outdoor air temperature sensor lead wire and connector
H28	Outdoor heat exchanger temperature sensor 1 abnormality	Continuous for 5s	—	Outdoor heat exchanger temperature sensor 1 open or short circuit	• Outdoor heat exchanger temperature sensor 1 lead wire and connector
H30	Outdoor discharge pipe temperature sensor abnormality	Continuous for 5s	—	Outdoor discharge pipe temperature sensor open or short circuit	• Outdoor discharge pipe temperature sensor lead wire and connector
H32	Outdoor heat exchanger temperature sensor 2 abnormality	Continuous for 5s	—	Outdoor heat exchanger temperature sensor 2 open or short circuit	• Outdoor heat exchanger temperature sensor 2 lead wire and connector
H33	Indoor / outdoor misconnection abnormality	—	—	Indoor and outdoor rated voltage different	• Indoor and outdoor units check
H34	Outdoor heat sink temperature sensor abnormality	Continuous for 2s	—	Outdoor heat sink temperature sensor open or short circuit	• Outdoor heat sink sensor
H36	Outdoor gas pipe temperature sensor abnormality	Continuous for 5s	Heating protection operation only	Outdoor gas pipe temperature sensor open or short circuit	• Outdoor gas pipe temperature sensor lead wire and connector
H37	Outdoor liquid pipe temperature sensor abnormality	Continuous for 5s	Cooling protection operation only	Outdoor liquid pipe temperature sensor open or short circuit	• Outdoor liquid pipe temperature sensor lead wire and connector
H38	Indoor/Outdoor mismatch (brand code)	—	—	Brand code not match	• Check indoor unit and outdoor unit
H39	Abnormal indoor operating unit or standby units	3 times happen within 40 minutes	—	Wrong wiring and connecting pipe, expansion valve abnormality, indoor heat exchanger sensor open circuit	• Check indoor/outdoor connection wire and connection pipe • Indoor heat exchanger sensor lead wire and connector • Expansion valve and lead wire and connector

Diagnosis display	Abnormality / Protection control	Abnormality Judgment	Protection Operation	Problem	Check location
H41	Abnormal wiring or piping connection	—	—	Wrong wiring and connecting pipe, expansion valve abnormality	• Check indoor/outdoor connection wire and connection pipe • Expansion valve and lead wire and connector
H59	ECONAVI sensor abnormality	Continuous for 25s	—	ECONAVI sensor open or short circuit	• ECONAVI sensor • ECONAVI and Indoor PCB
H64	Outdoor high pressure sensor abnormality	Continuous for 1 minutes	—	High pressure sensor open circuit during compressor stop	• High pressure sensor • Lead wire and connector
H67	Nanoe abnormality	Nanoe stop for 5 minutes for 3 times	—	Nanoe faulty	• PCB • Nanoe system • High voltage
H70	Light sensor abnormality	Continuous for 24 hours	—	Light sensor open or short circuit	• Light sensor • Indoor PCB
H79	Wireless LAN module write error	—	—	Wireless LAN module (Network adapter) faulty	• Wireless LAN module (Network adapter)
H85	Abnormal communication between indoor & wireless LAN module	Communication error for 10 minutes for 3 times	—	Wireless LAN LED Off or timer LED blinking	• Network adaptor • Router • Network coverage
H97	Outdoor fan motor mechanism lock	2 times happen within 30 minutes	—	Outdoor fan motor lock or feedback abnormal	• Outdoor fan motor lead wire and connector • Fan motor lock or block
H98	Indoor high pressure protection	—	—	Indoor high pressure protection (Heating)	• Check indoor heat exchanger • Air filter dirty • Air circulation short circuit
H99	Indoor operating unit freeze protection	—	—	Indoor freeze protection (Cooling)	• Check indoor heat exchanger • Air filter dirty • Air circulation short circuit
F11	4-way valve switching abnormality	4 times happen within 30 minutes	—	4-way valve switching abnormal	• 4-way valve • Lead wire and connector
F17	Indoor standby units freezing abnormality	3 times happen within 40 minutes	—	Wrong wiring and connecting pipe, expansion valve leakage, indoor heat exchanger sensor open circuit	• Check indoor/outdoor connection wire and pipe • Indoor heat exchanger sensor lead wire and connector • Expansion valve lead wire and connector
F90	Power factor correction (PFC) circuit protection	4 times happen within 10 minutes	—	Power factor correction circuit abnormal	• Outdoor PCB faulty
F91	Refrigeration cycle abnormality	2 times happen within 20 minutes	—	Refrigeration cycle abnormal	• Insufficient refrigerant or valve close
F93	Compressor abnormal revolution	4 times happen within 20 minutes	—	Compressor abnormal revolution	• Power transistor module faulty or compressor lock
F94	Compressor discharge overshoot protection	4 times happen within 30 minutes	—	Compressor discharge pressure overshoot	• Check refrigeration system
F95	Outdoor cooling high pressure protection	4 times happen within 20 minutes	—	Cooling high pressure protection	• Check refrigeration system • Outdoor air circuit
F96	Power transistor module overheating protection	4 times happen within 30 minutes	—	Power transistor module overheat	• PCB faulty • Outdoor air circuit (fan motor)
F97	Compressor overheating protection	3 times happen within 30 minutes	—	Compressor overheat	• Insufficient refrigerant
F98	Total running current protection	3 times happen within 20 minutes	—	Total current protection	• Check refrigeration system • Power source or compressor lock
F99	Outdoor direct current (DC) peak detection	Continuous happen for 7 times	—	Power transistor module current protection	• Power transistor module faulty or compressor lock

17.4 Self-diagnosis Method

17.4.1 H11 (Indoor/Outdoor Abnormal Communication)

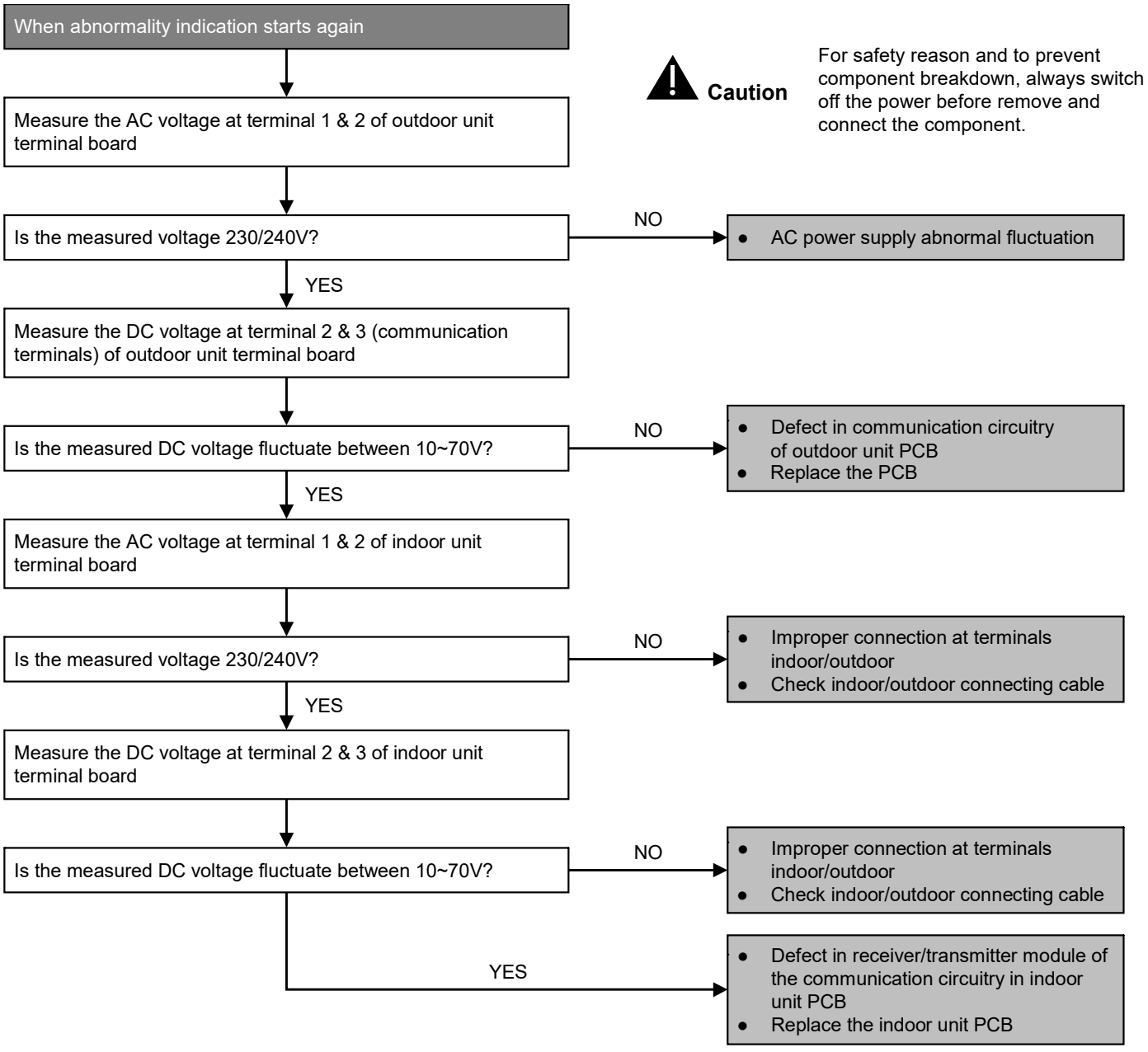
Malfunction Decision Conditions

- During startup and operation of cooling and heating, the data received from outdoor unit in indoor unit signal transmission is checked whether it is normal.

Malfunction Caused

- Faulty indoor unit PCB.
- Faulty outdoor unit PCB.
- Indoor unit-outdoor unit signal transmission error due to wiring error.
- Indoor unit-outdoor unit signal transmission error due to breaking of wire in the connection wires between the indoor and outdoor units.

Troubleshooting



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17.4.2 H12 (Indoor/Outdoor Capacity Rank Mismatched)

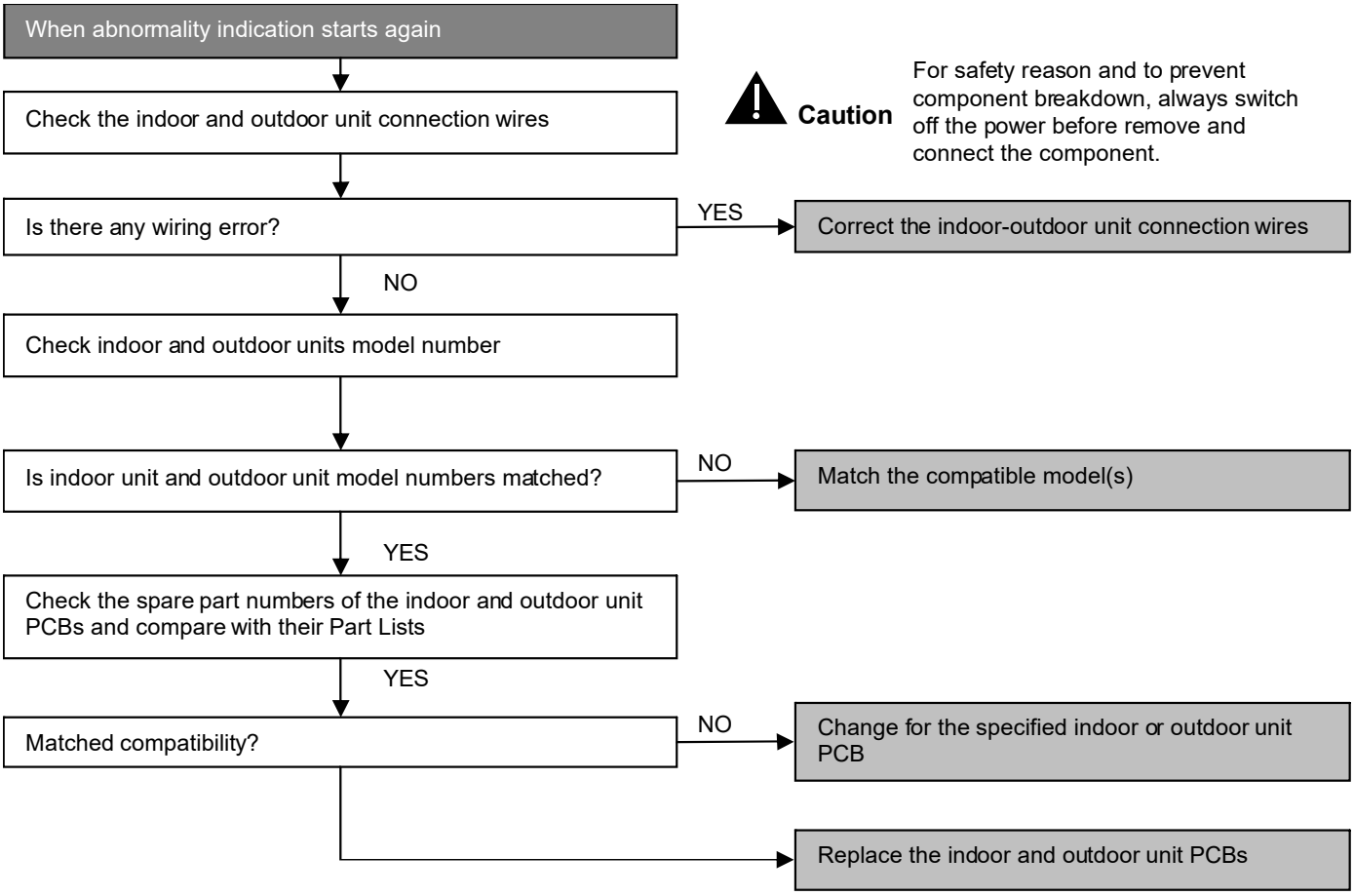
Malfunction Decision Conditions

- During startup, error code appears when different types of indoor and outdoor units are interconnected.

Malfunction Caused

- Wrong models interconnected.
- Wrong indoor unit or outdoor unit PCBs mounted.
- Indoor unit or outdoor unit PCBs defective.
- Indoor-outdoor unit signal transmission error due to wrong wiring.
- Indoor-outdoor unit signal transmission error due to breaking of wire 3 in the connection wires between the indoor and outdoor units.

Troubleshooting



17.4.3 H14 (Indoor Intake Air Temperature Sensor Abnormality)

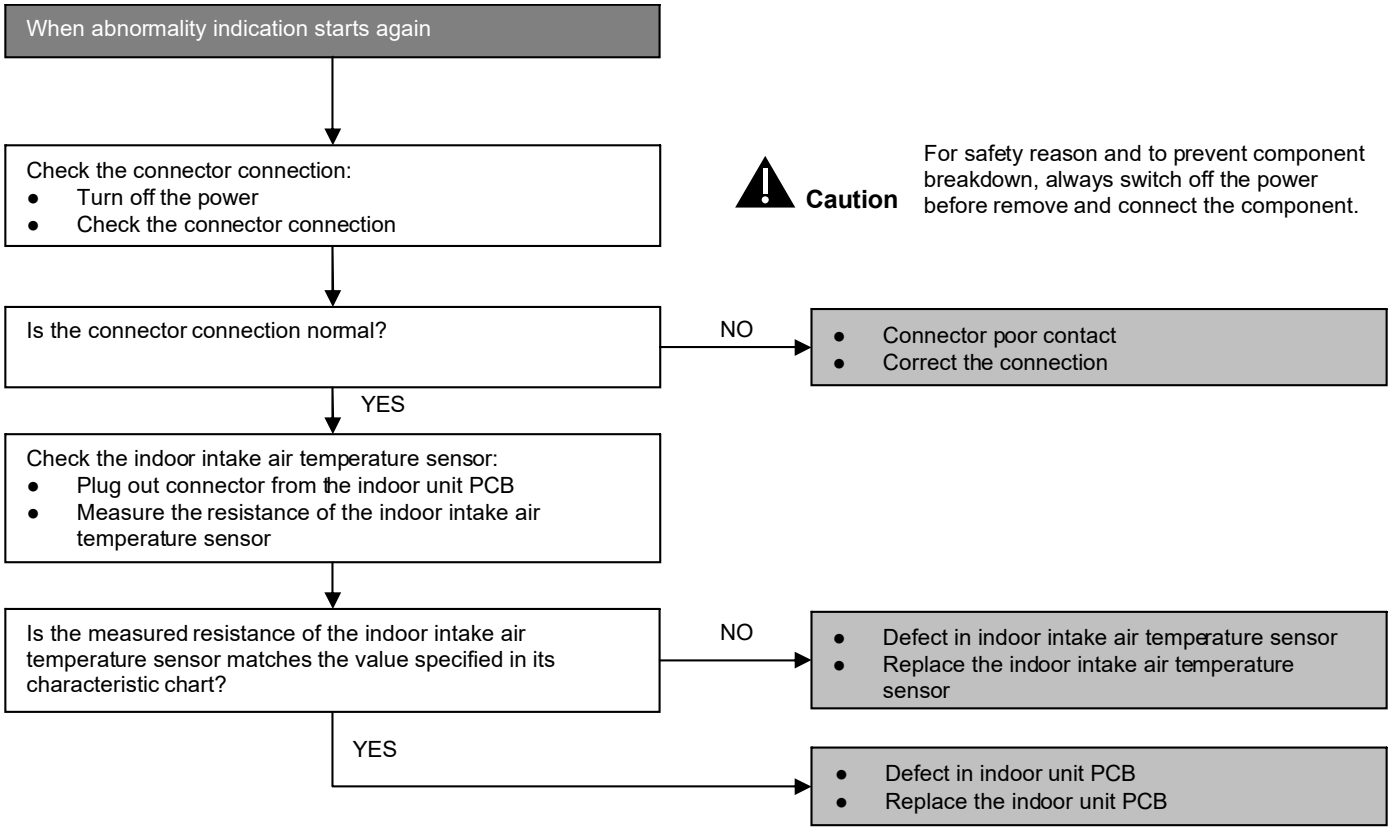
Malfunction Decision Conditions

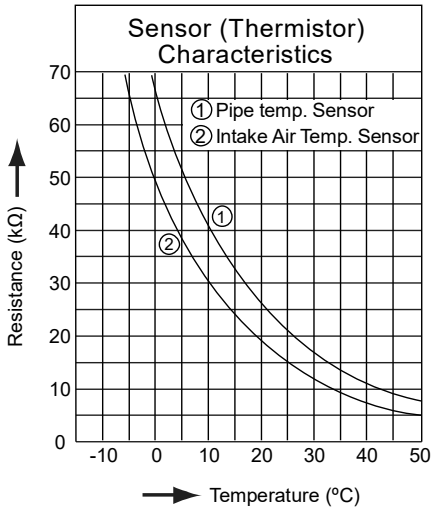
- During startup and operation of cooling and heating, the temperatures detected by the indoor intake air temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting





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17.4.4 H15 (Compressor Temperature Sensor Abnormality)

Malfunction Decision Conditions

- During startup and operation of cooling and heating, the temperatures detected by the outdoor compressor temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting

When abnormality indication starts again

Check the connector connection:
- Turn off the power
- Check the connector connection

Caution For safety reason and to prevent component breakdown, always switch off the power before remove and connect the component.

Is the connector connection normal?

NO
- Connector poor contact
- Correct the connection

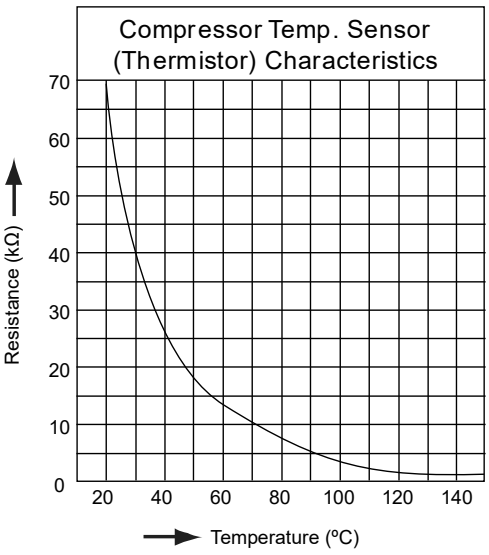
YES

Check the outdoor compressor temperature sensor:
- Plug out connector from the outdoor unit PCB
- Measure the resistance of the outdoor compressor temperature sensor

Is the measured resistance of the outdoor compressor temperature sensor matches the value specified in its characteristic chart?

NO
- Defect in outdoor compressor temperature sensor
- Replace the outdoor compressor temperature sensor

YES
- Defect in outdoor unit PCB
- Replace the outdoor unit PCB



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17.4.5 H16 (Outdoor Current Transformer)

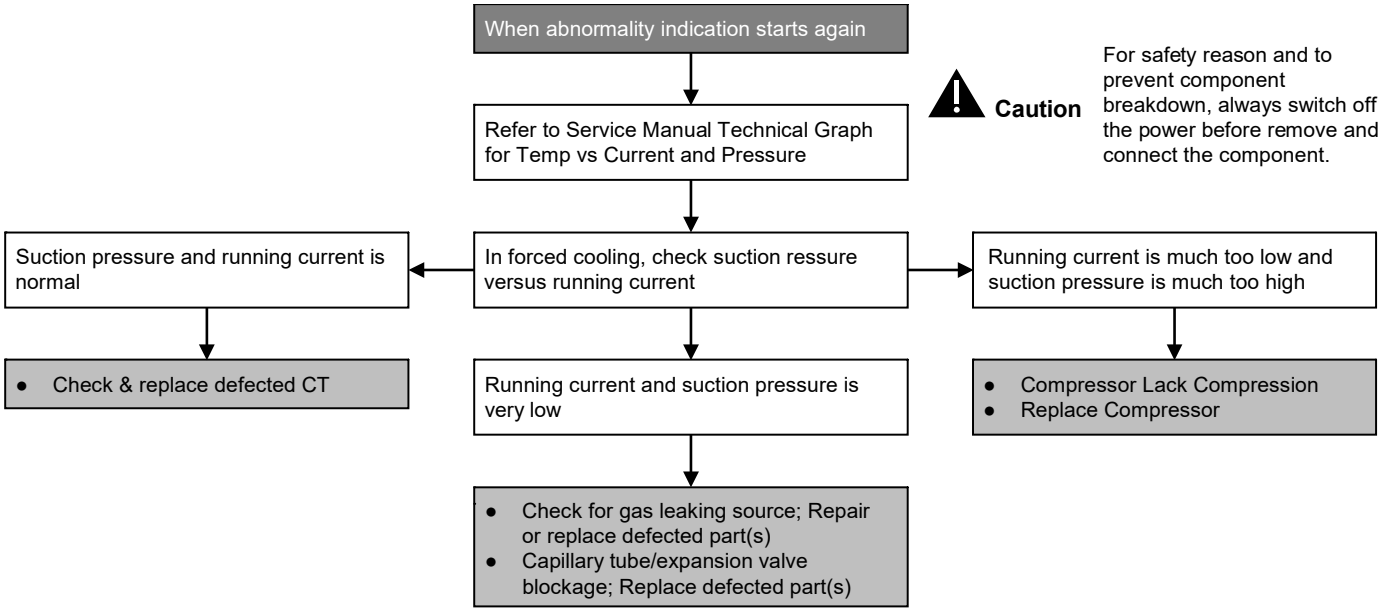
Malfunction Decision Conditions

- An input current, detected by Current Transformer CT, is below threshold value when the compressor is operating at certain frequency value for 3 minutes.

Malfunction Caused

- Lack of gas
- Broken CT (current transformer)
- Broken Outdoor PCB

Troubleshooting



17.4.6 H19 (Indoor Fan Motor – DC Motor Mechanism Locked)

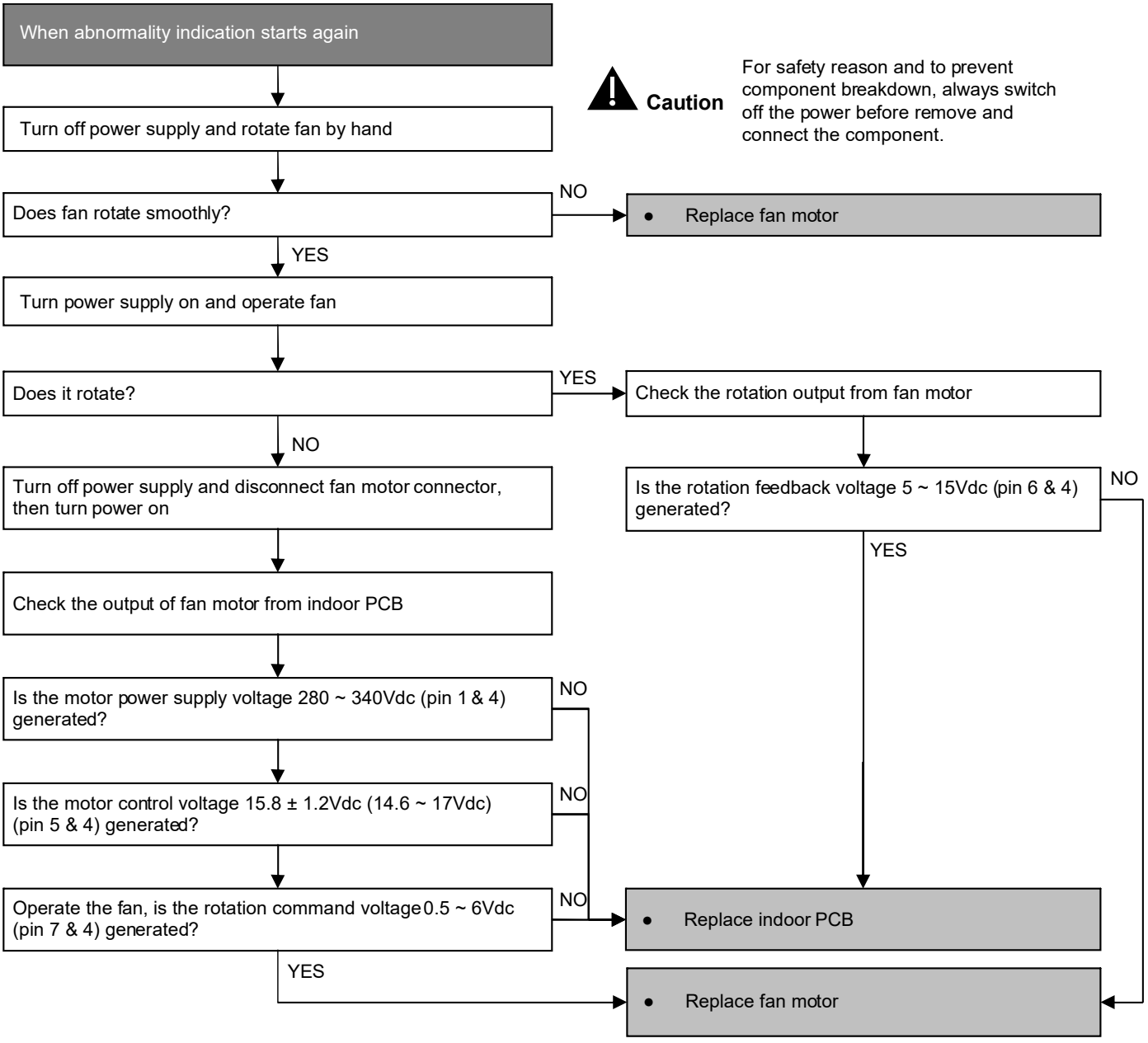
Malfunction Decision Conditions

- The rotation speed detected by the Hall IC during fan motor operation is used to determine abnormal fan motor (feedback of rotation > 2550rpm or < 50rpm)

Malfunction Caused

- Operation stops due to short circuit inside the fan motor winding.
- Operation stops due to breaking of wire inside the fan motor.
- Operation stops due to breaking of fan motor lead wires.
- Operation stops due to Hall IC malfunction.
- Operation error due to faulty indoor unit PCB.

Troubleshooting



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17.4.7 H23 (Indoor Pipe Temperature Sensor Abnormality)

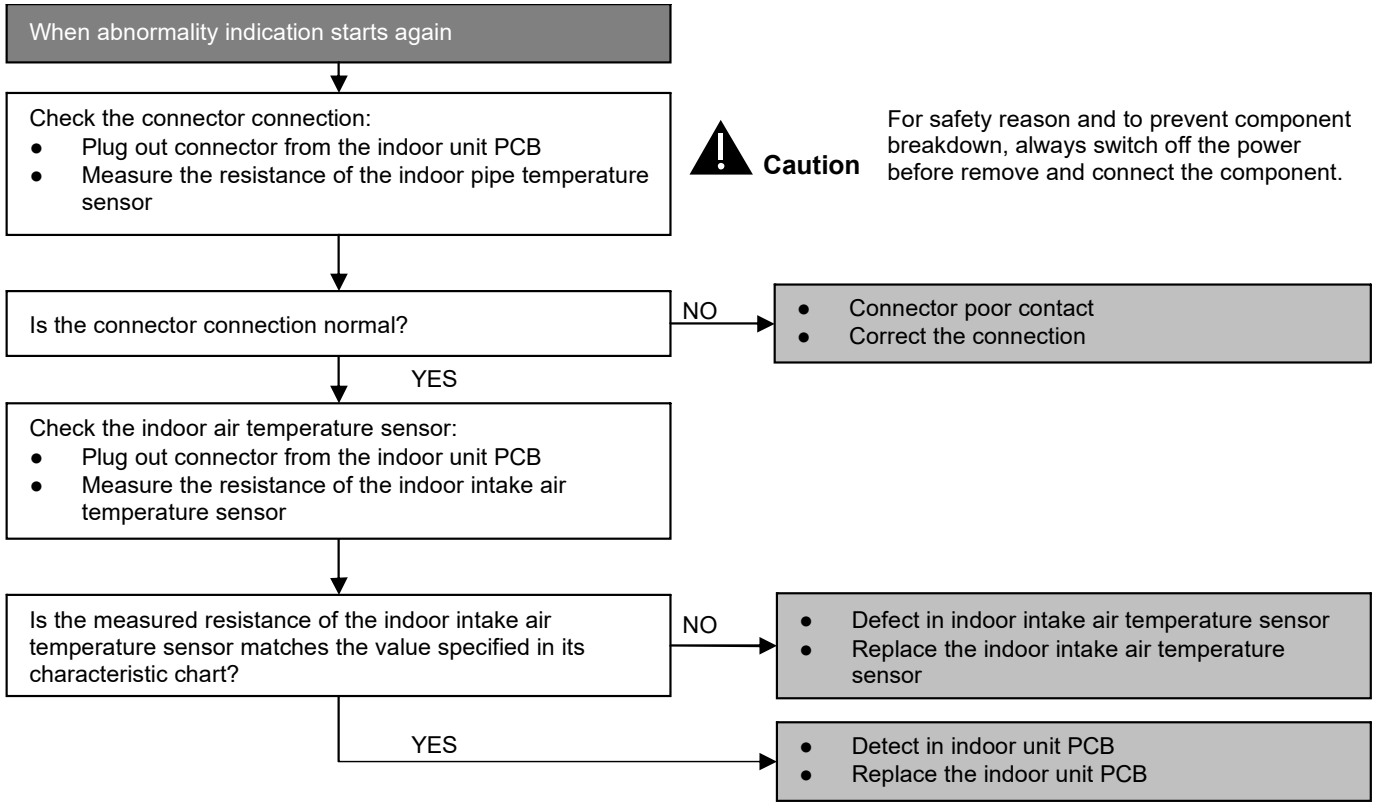
Malfunction Decision Conditions

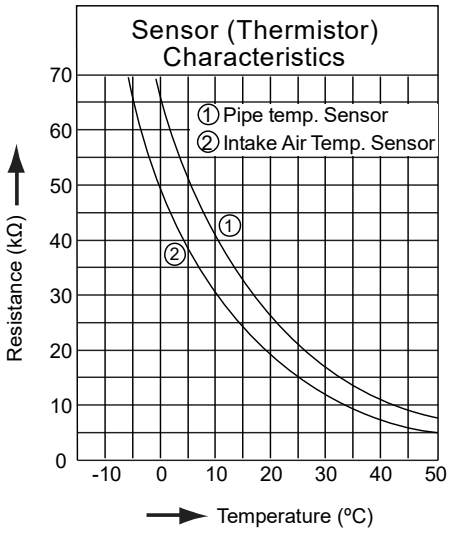
- During startup and operation of cooling and heating, the temperatures detected by the indoor heat exchanger temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting





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17.4.8 H27 (Outdoor Air Temperature Sensor Abnormality)

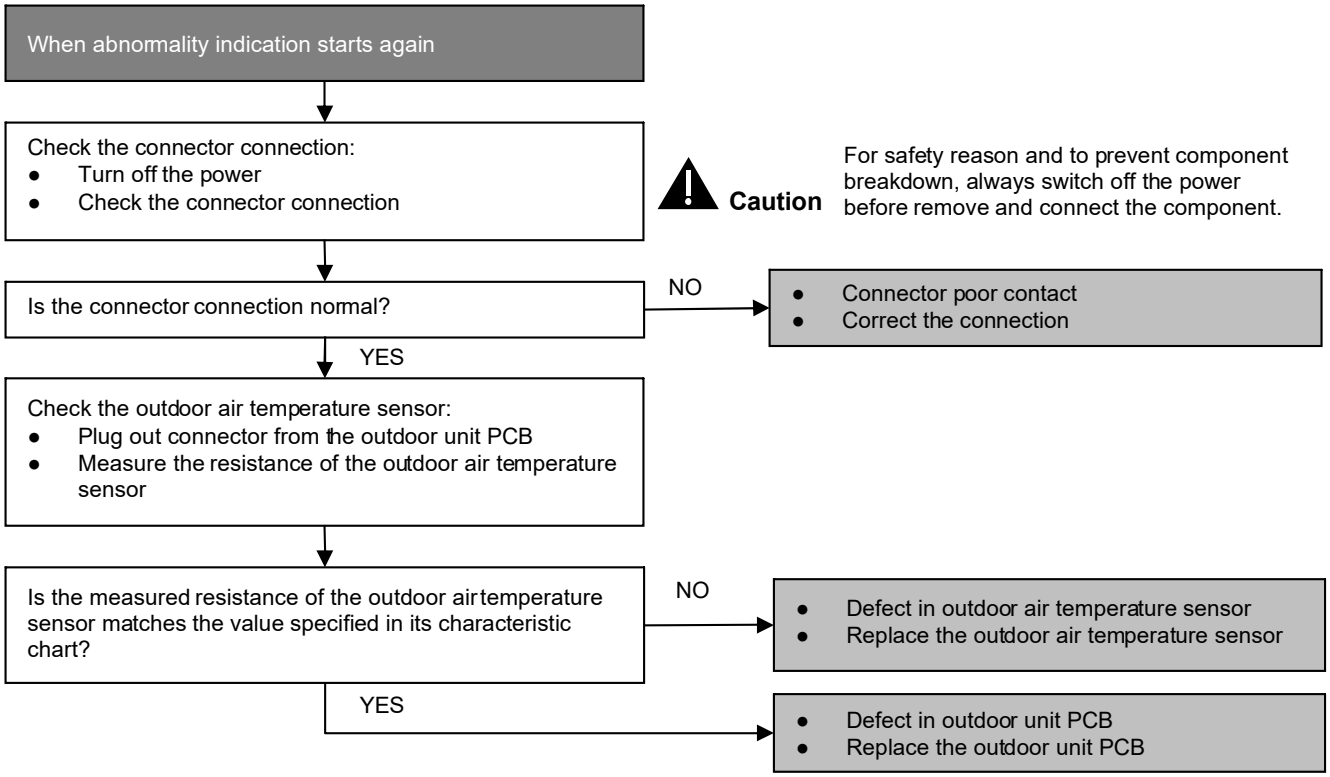
Malfunction Decision Conditions

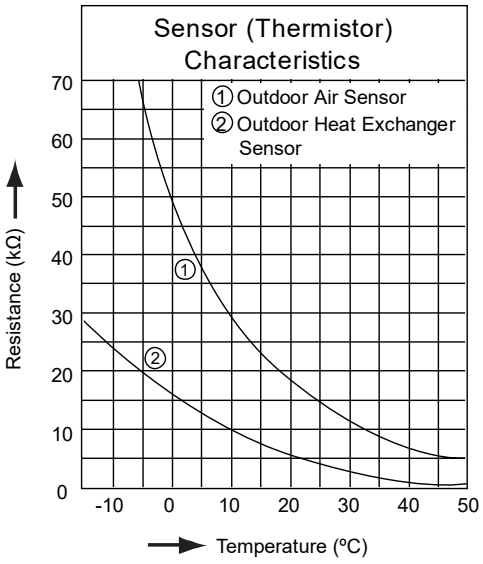
- During startup and operation of cooling and heating, the temperatures detected by the outdoor air temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting





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17.4.9 H28 (Outdoor Pipe Temperature Sensor Abnormality)

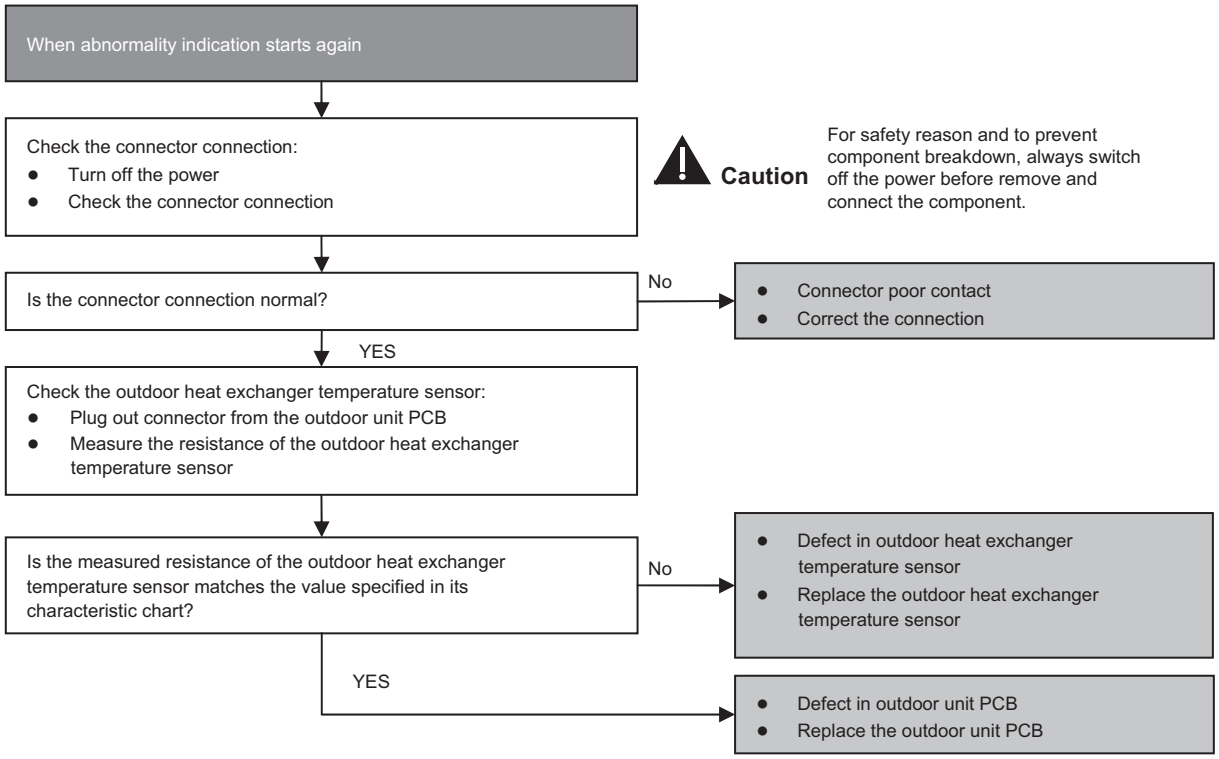
Malfunction Decision Conditions

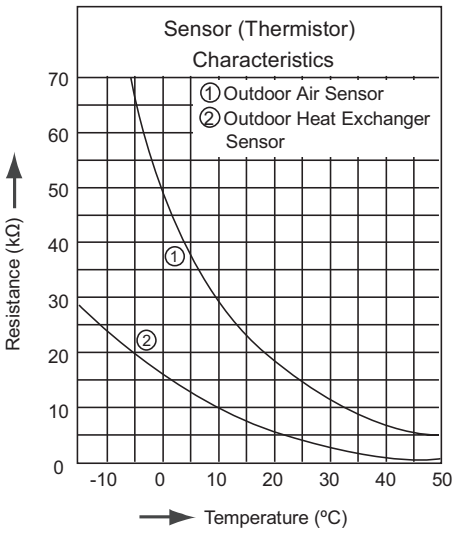
- During startup and operation of cooling and heating, the temperatures detected by the outdoor pipe temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting





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17.4.10 H30 (Compressor Discharge Temperature Sensor Abnormality)

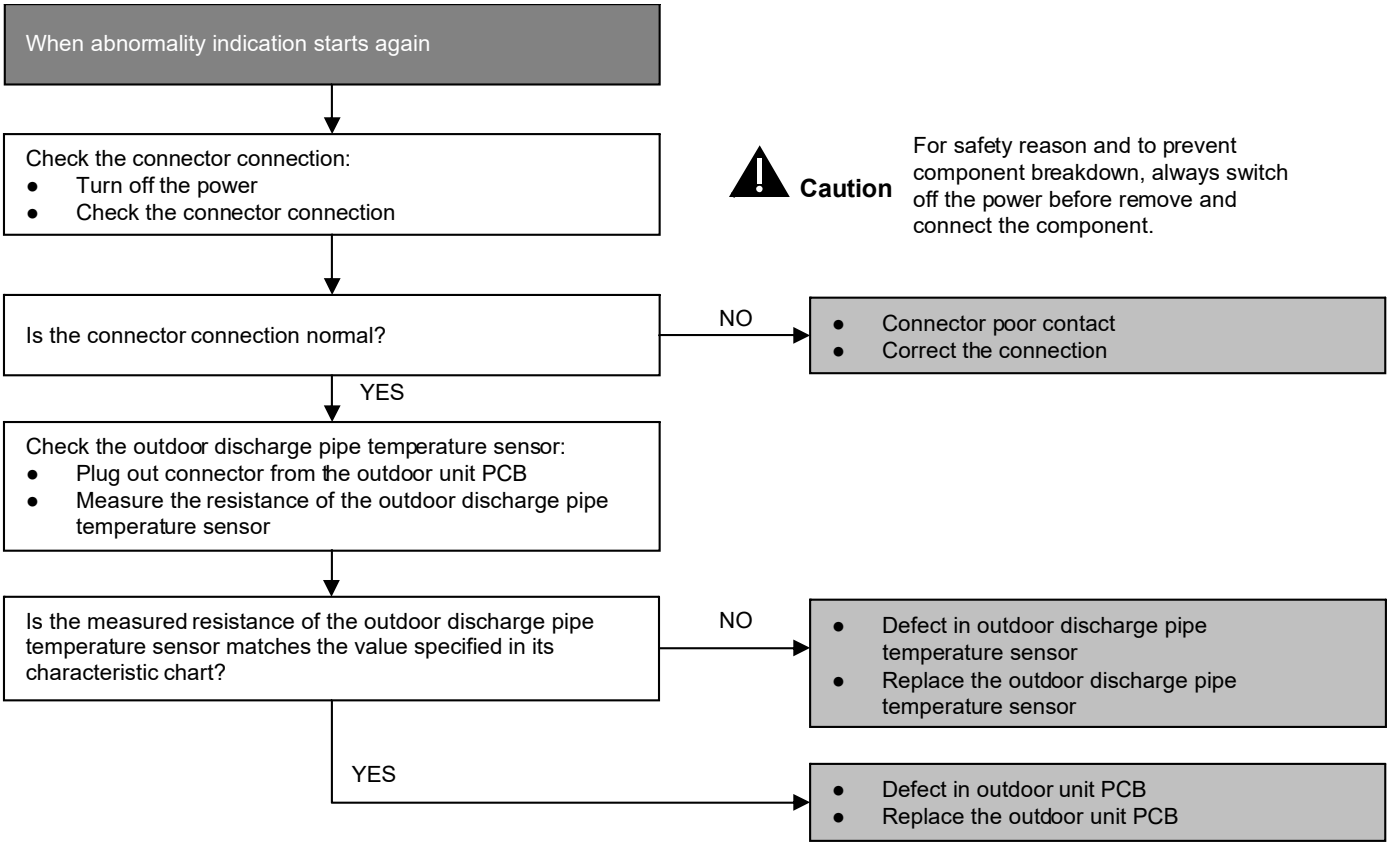
Malfunction Decision Conditions

- During startup and operation of cooling and heating, the temperatures detected by the outdoor discharge pipe temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting



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17.4.11 H32 (Outdoor Heat Exchanger Temperature Sensor 2 Abnormality)

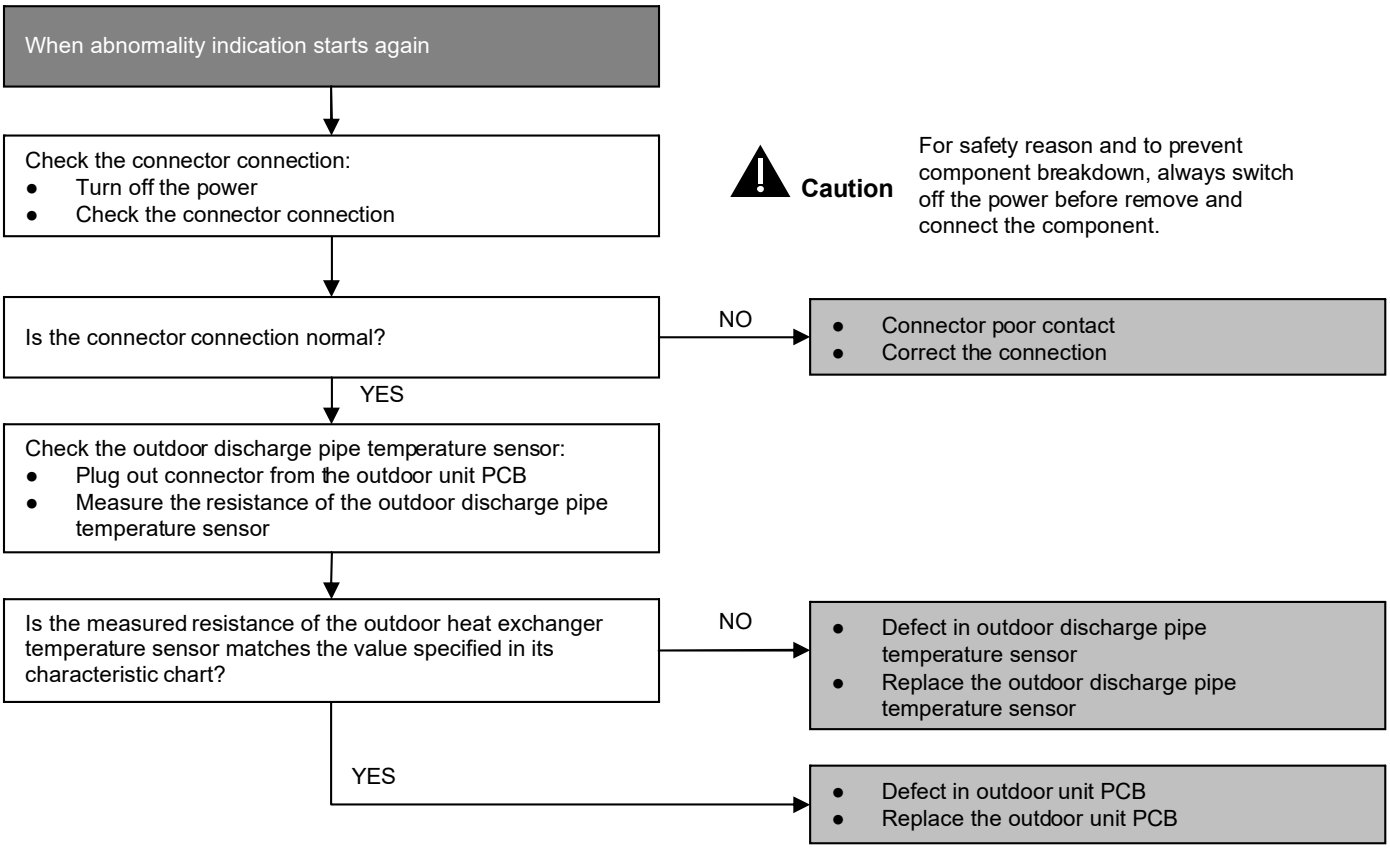
Malfunction Decision Conditions

- During startup and operation of cooling and heating, the temperatures detected by the outdoor heat exchanger temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting



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17.4.12 H33 (Unspecified Voltage between Indoor and Outdoor)

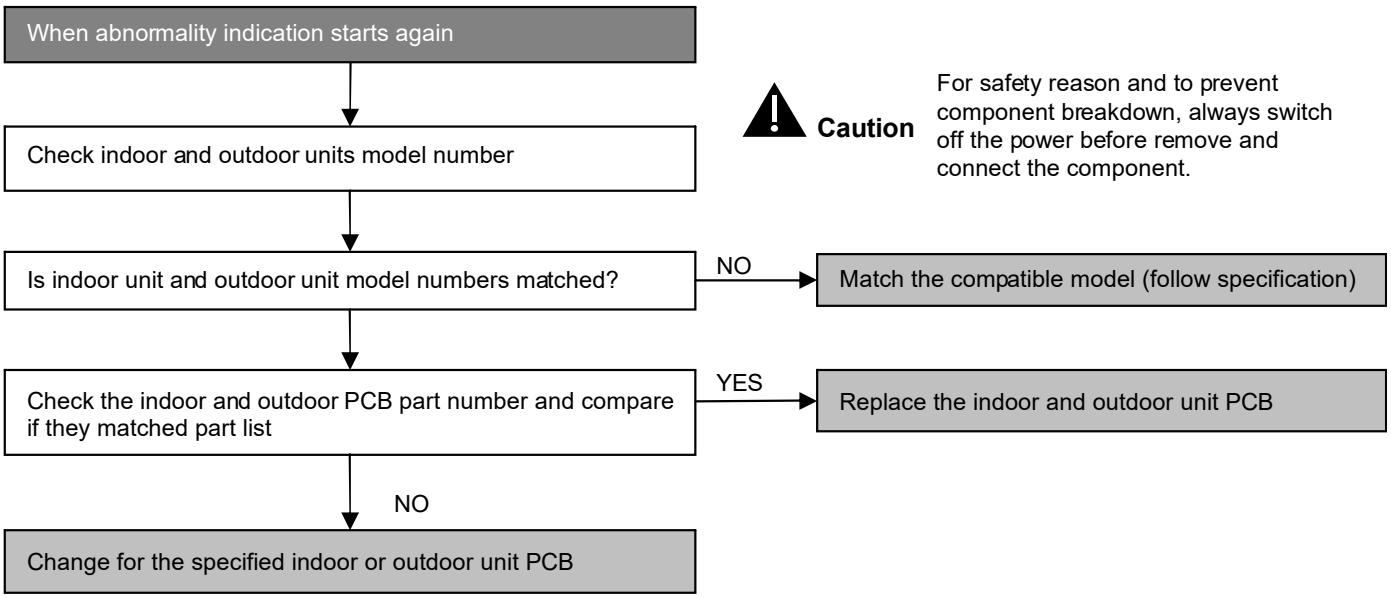
Malfunction Decision Conditions

- The supply power is detected for its requirement by the indoor/outdoor transmission.

Malfunction Caused

- Wrong models interconnected.
- Wrong indoor unit and outdoor unit PCBs used.
- Indoor unit or outdoor unit PCB defective.

Troubleshooting



17.4.13 H34 (Outdoor Heat Sink Temperature Sensor Abnormality)

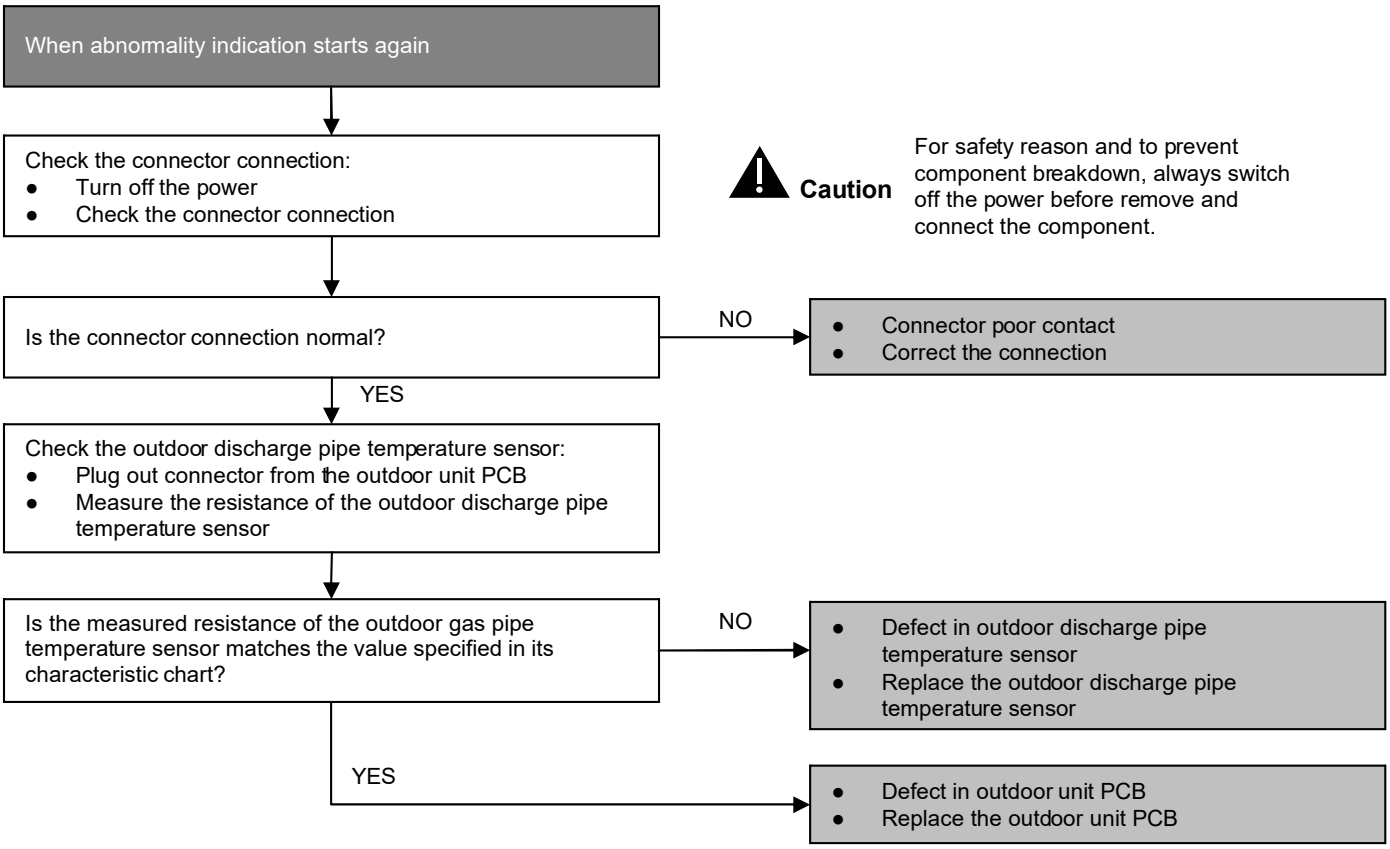
Malfunction Decision Conditions

- During startup and operation of cooling and heating, the temperatures detected by the outdoor heat sink temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting



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17.4.14 H36 (Outdoor Gas Pipe Sensor Abnormality)

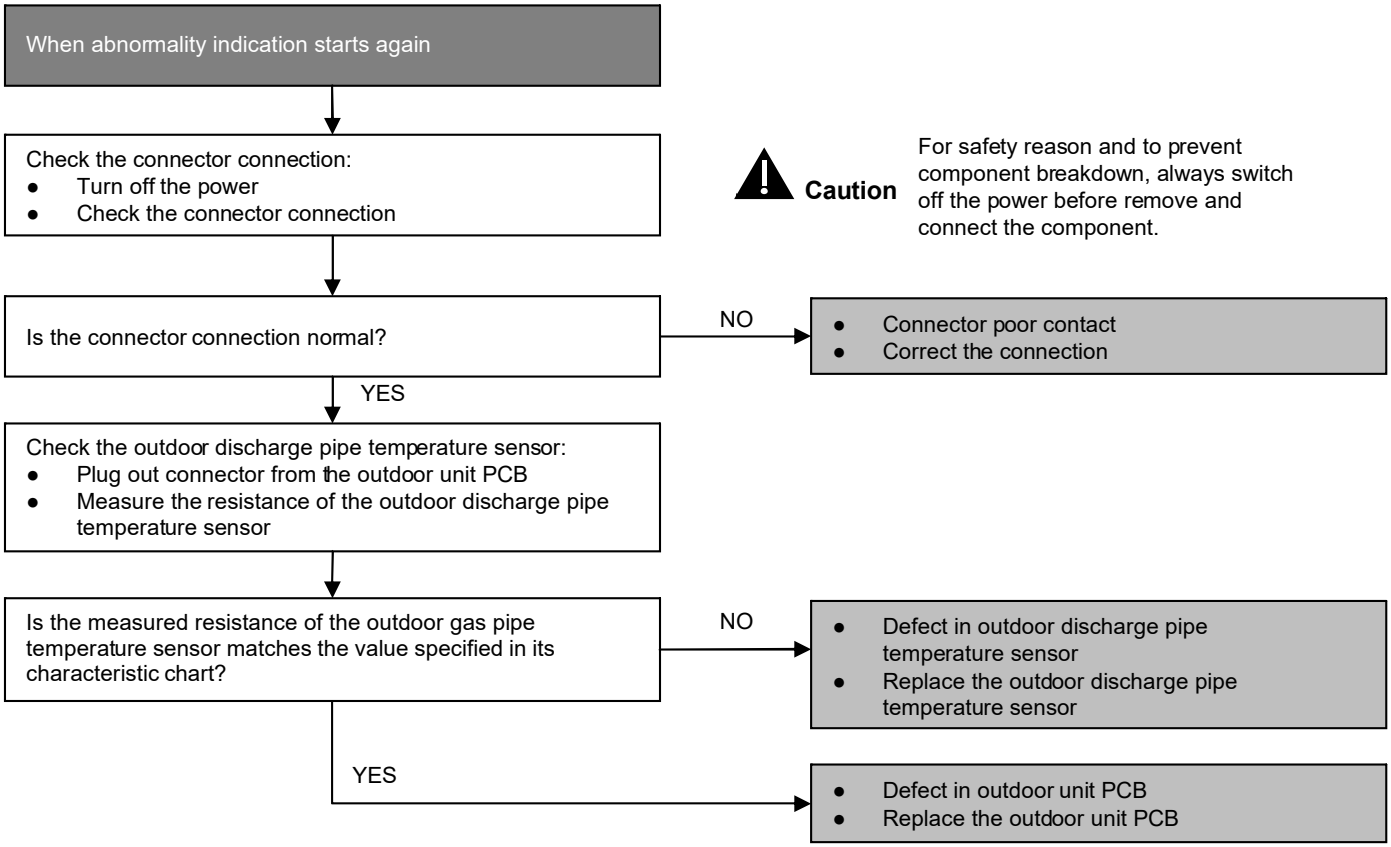
Malfunction Decision Conditions

- During startup and operation of cooling and heating, the temperatures detected by the outdoor gas pipe temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting



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17.4.15 H37 (Outdoor Liquid Pipe Temperature Sensor Abnormality)

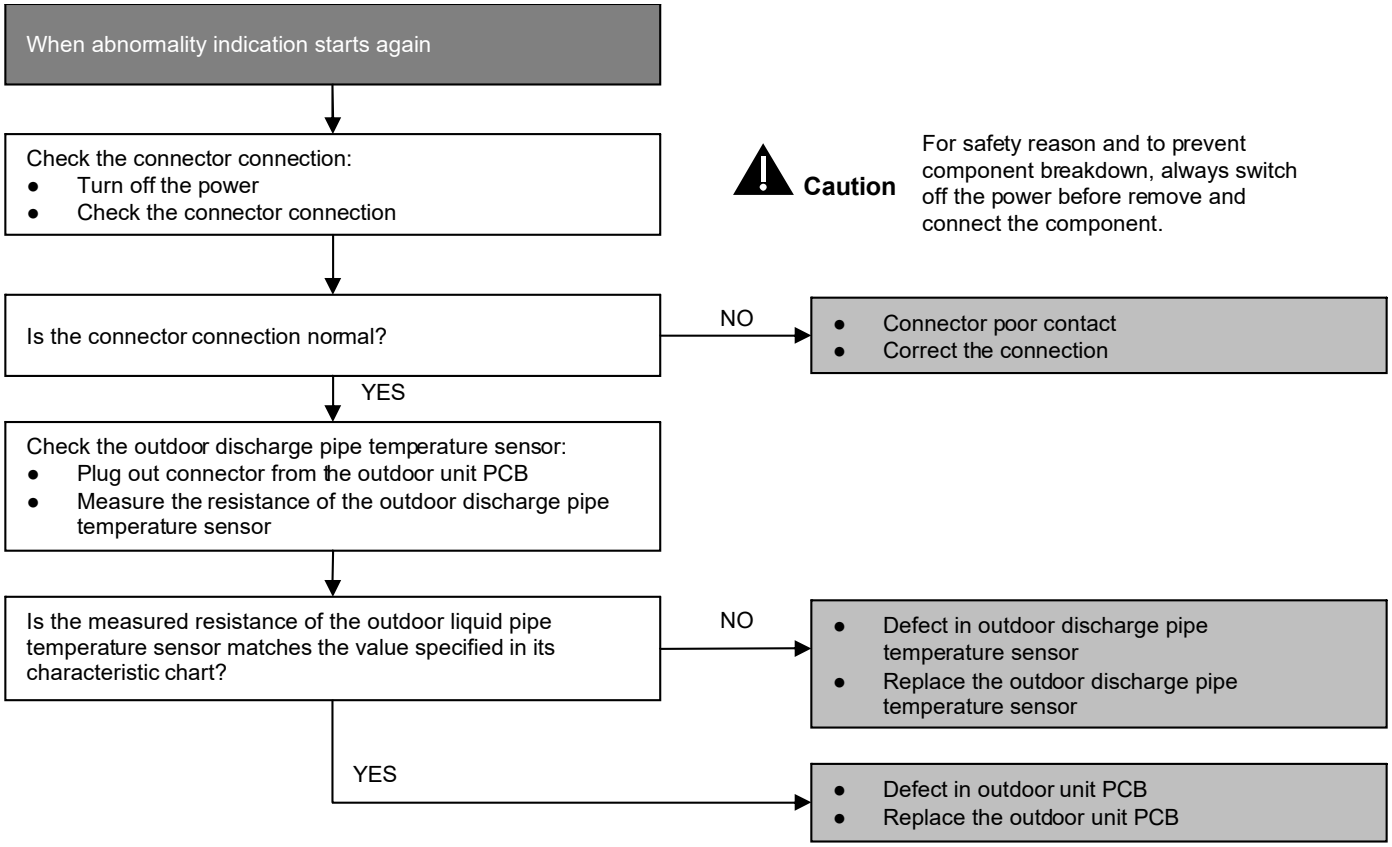
Malfunction Decision Conditions

- During startup and operation of cooling and heating, the temperatures detected by the outdoor liquid pipe temperature sensor are used to determine sensor errors.

Malfunction Caused

- Faulty connector connection.
- Faulty sensor.
- Faulty PCB.

Troubleshooting



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17.4.16 H67 (nanoe abnormality)

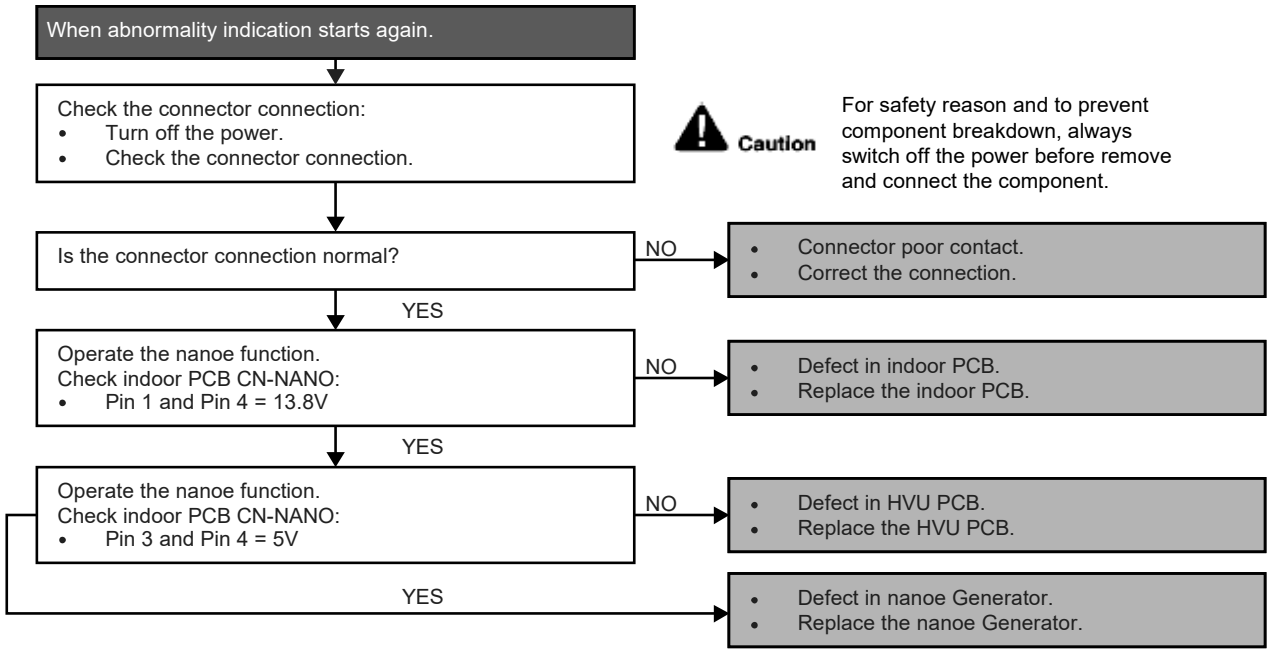
Malfunction Decision Conditions

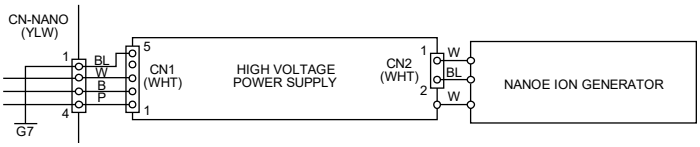
- nanoe stop for 5 minutes for 3 times.

Malfunction Caused

- Faulty connector connection.
- Faulty indoor unit PCB.
- Faulty nanoe generator.

Troubleshooting





17.4.17 H85 (WLAN Module abnormality)

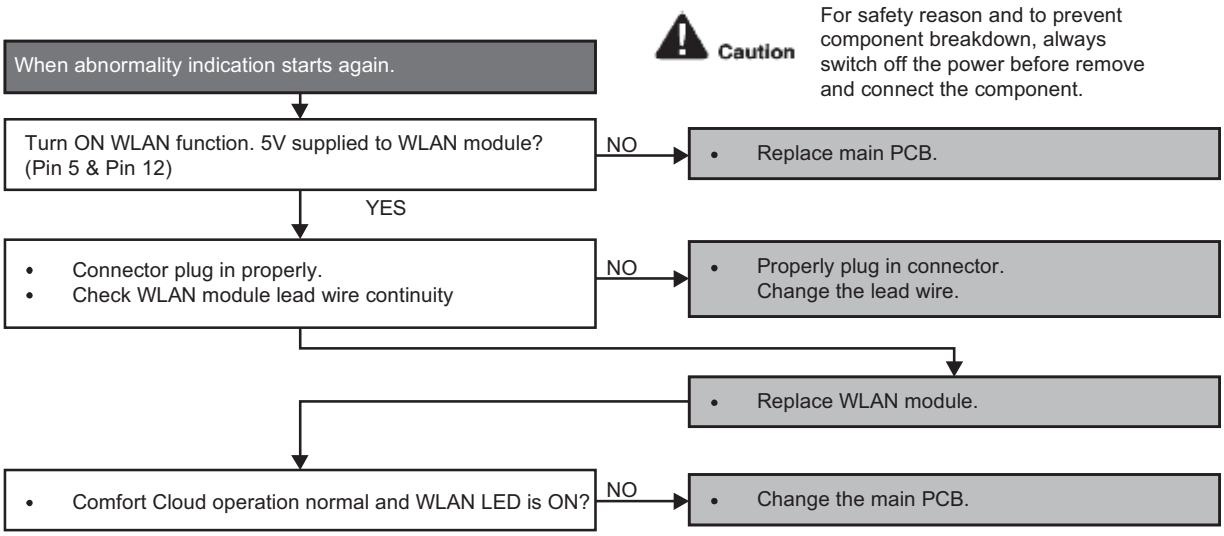
Malfunction Decision Conditions

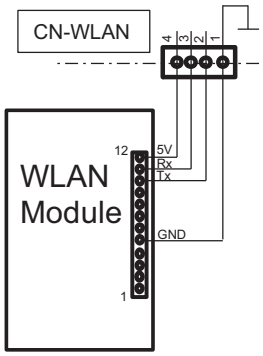
- Initial Setting: Main PCB does not receive WLAN module data for 90 secs.
- Normal Control: Main PCB does not receive WLAN module data for 10 mins repeating 2 times.
  - 5V power to WLAN module is turned off for 2s.
  - After 2s, 5V power to WLAN module is turned on & start initial setting.
  - WLAN LED Off & Timer LED blinking.

Malfunction Caused

- Faulty lead wire connector connection.
- Faulty indoor unit PCB.
- Faulty WLAN module.

Troubleshooting





17.4.18 H97 (Outdoor Fan Motor – DC Motor Mechanism Locked)

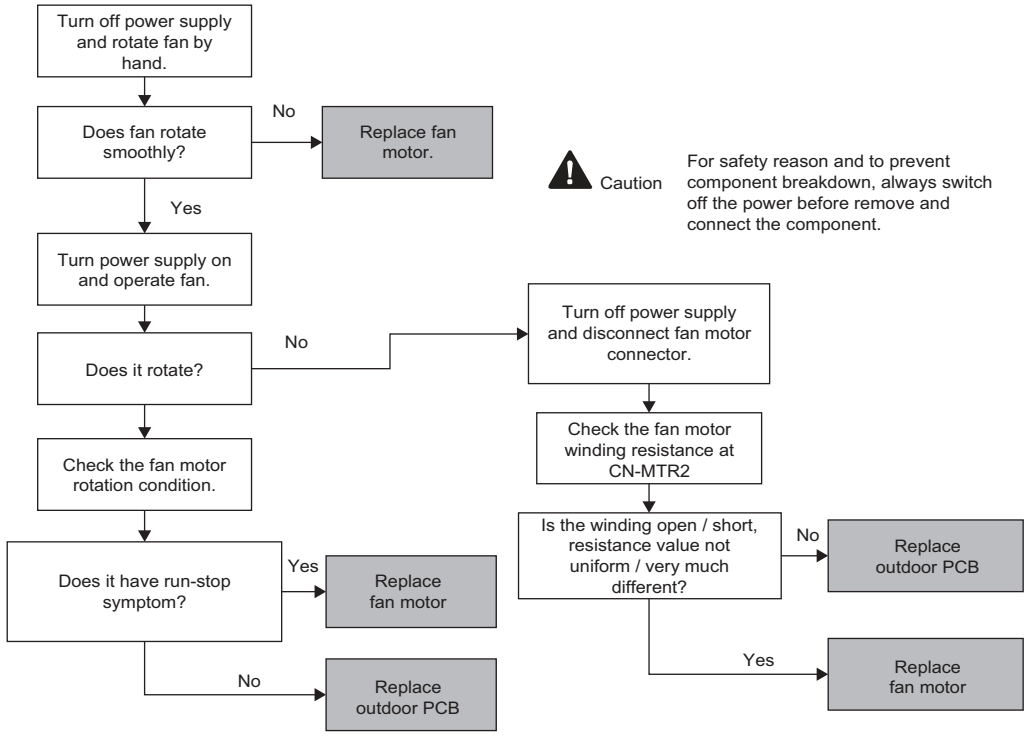
Malfunction Decision Conditions

- The rotation speed detected by the Hall IC during fan motor operation is used to determine abnormal fan motor.

Malfunction Caused

- Operation stops due to short circuit inside the fan motor winding.
- Operation stops due to breaking of wire inside the fan motor.
- Operation stops due to breaking of fan motor lead wires.
- Operation stops due to Hall IC malfunction.
- Operation error due to faulty outdoor unit PCB.

Troubleshooting



17.4.19 H98 (Error Code Stored in Memory and no alarm is triggered / no TIMER LED flashing)

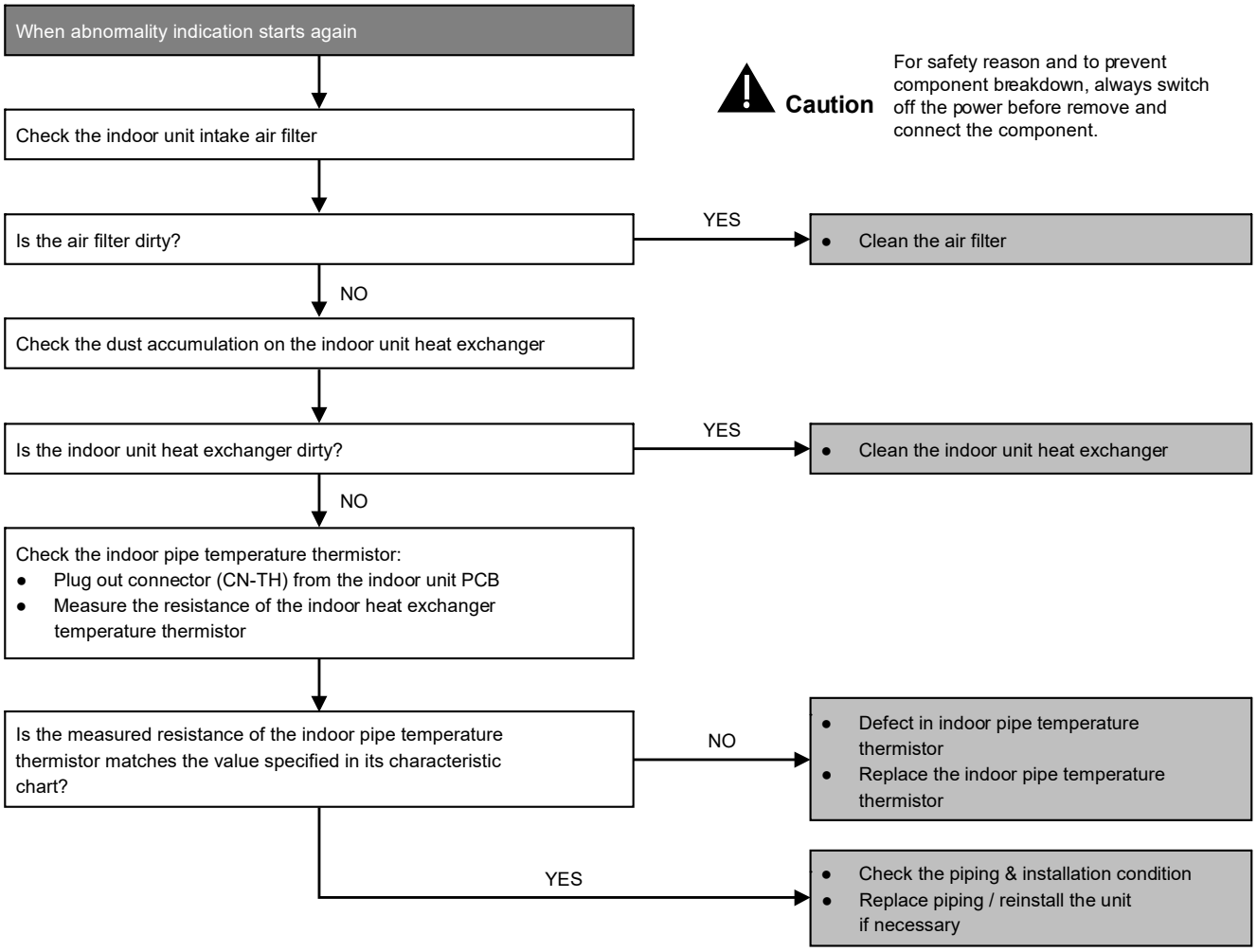
Malfunction Decision Conditions

- Indoor high pressure is detected when indoor heat exchanger is detecting very high temperature when the unit is operating in heating operation.
- Phenomena: unit is stopping and re-starting very often in heating mode

Malfunction Caused

- Indoor heat exchanger thermistor
- Clogged air filter or heat exchanger
- Over-bent pipe (liquid side)

Troubleshooting



17.4.20 H99 (Indoor Freeze Prevention Protection: Cooling or Soft Dry)

Error Code will not display (no Timer LED blinking) but store in EEPROM

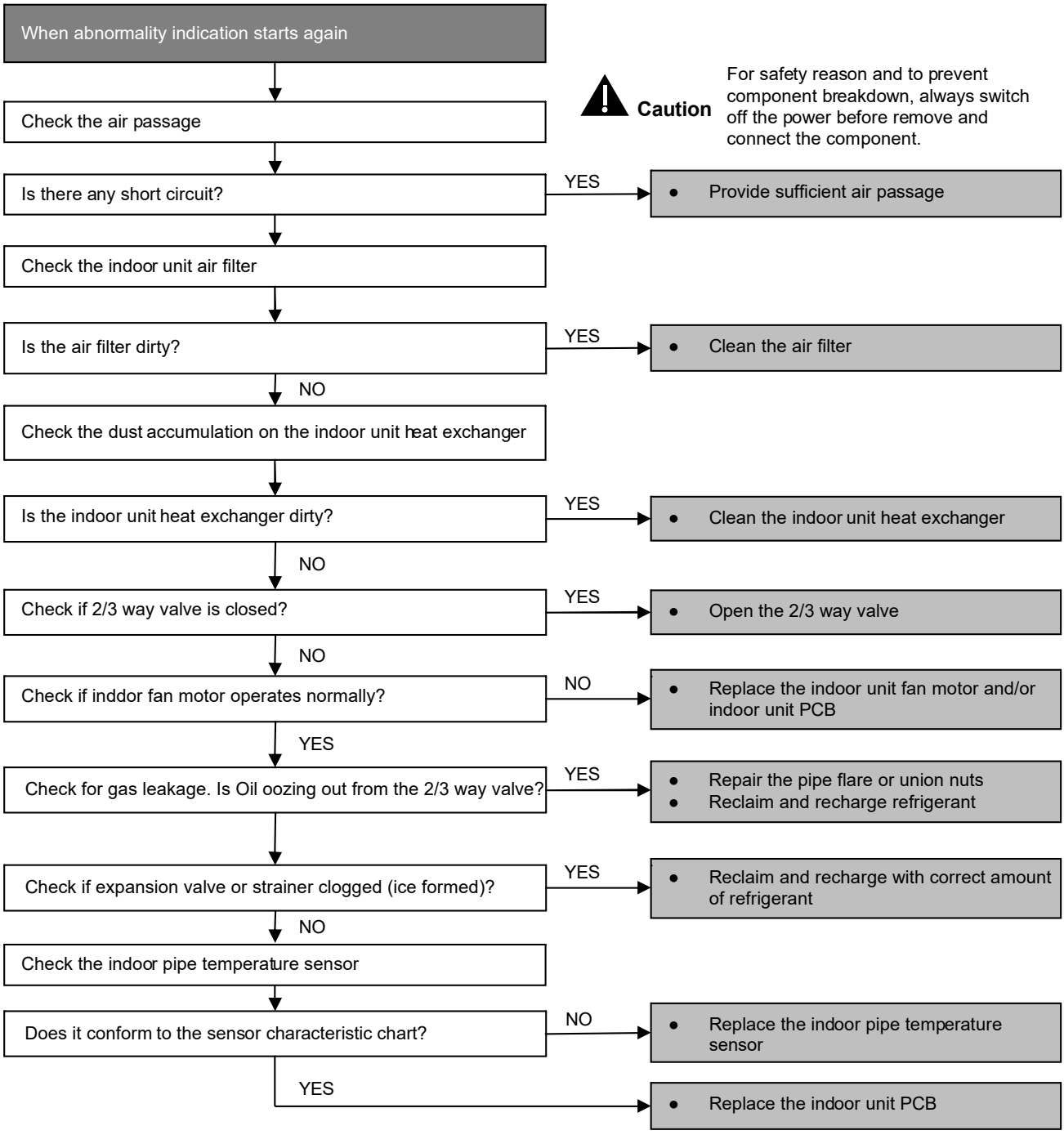
Malfunction Decision Conditions

- Freeze prevention control takes place (when indoor pipe temperature is lower than 2°C)

Malfunction Caused

- Air short circuit at indoor unit
- Clogged indoor unit air filter
- Dust accumulation on the indoor unit heat exchanger
- 2/3 way valve closed
- Faulty indoor unit fan motor
- Refrigerant shortage (refrigerant leakage)
- Clogged expansion valve or strainer
- Faulty indoor pipe temperature sensor
- Faulty indoor unit PCB

Troubleshooting



17.4.21 F11 (4-way Valve Switching Failure)

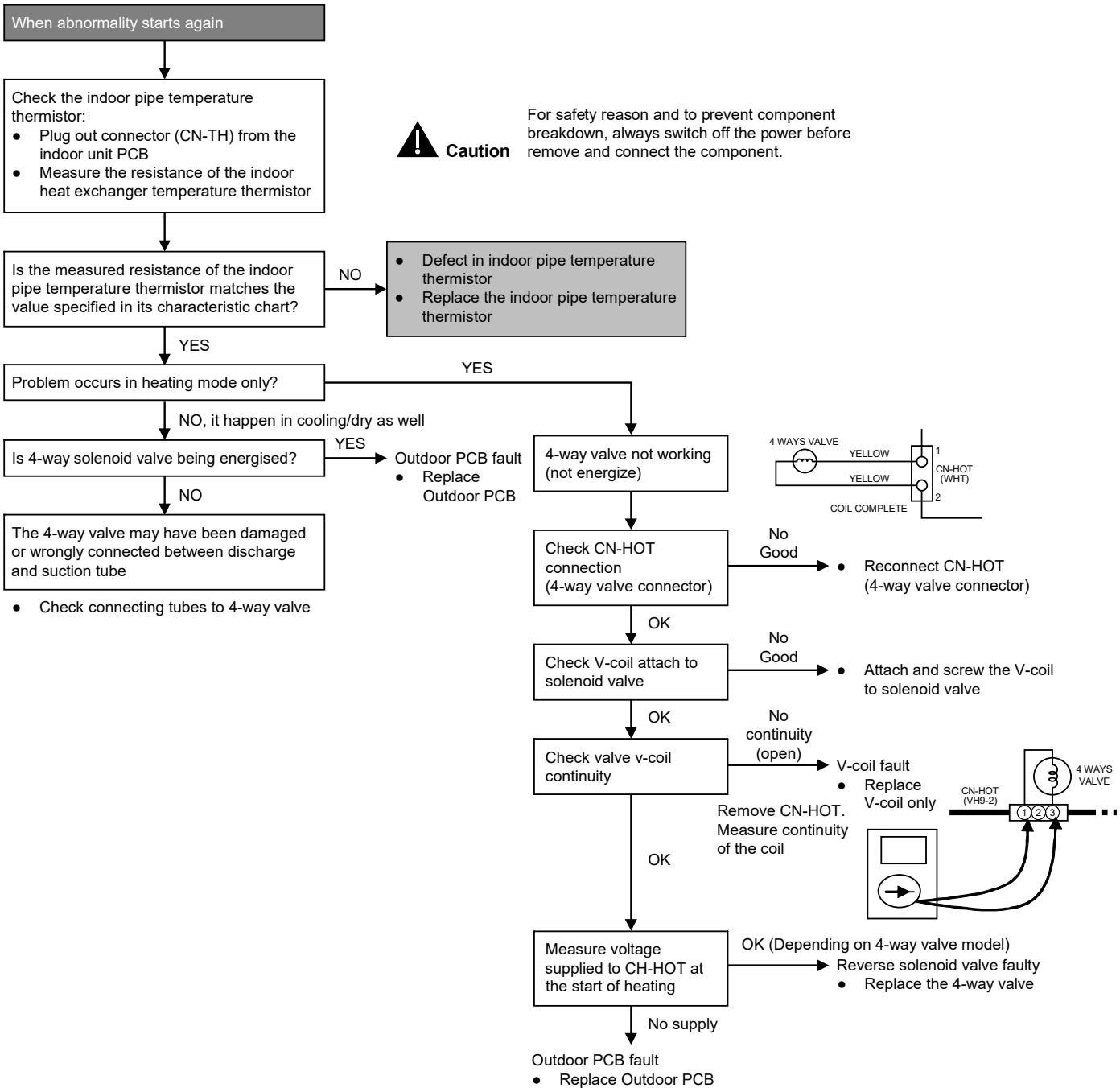
Malfunction Decision Conditions

- When indoor heat exchanger is cold during heating (except deice) or when indoor heat exchanger is hot during cooling and compressor operating, the 4-way valve is detected as malfunction.

Malfunction Caused

- Indoor heat exchanger (pipe) thermistor
- 4-way valve malfunction

Troubleshooting



* Check gas side pipe – for hot gas flow in cooling mode

17.4.22 F17 (Indoor Standby Units Freezing Abnormality)

Malfunction Decision Conditions

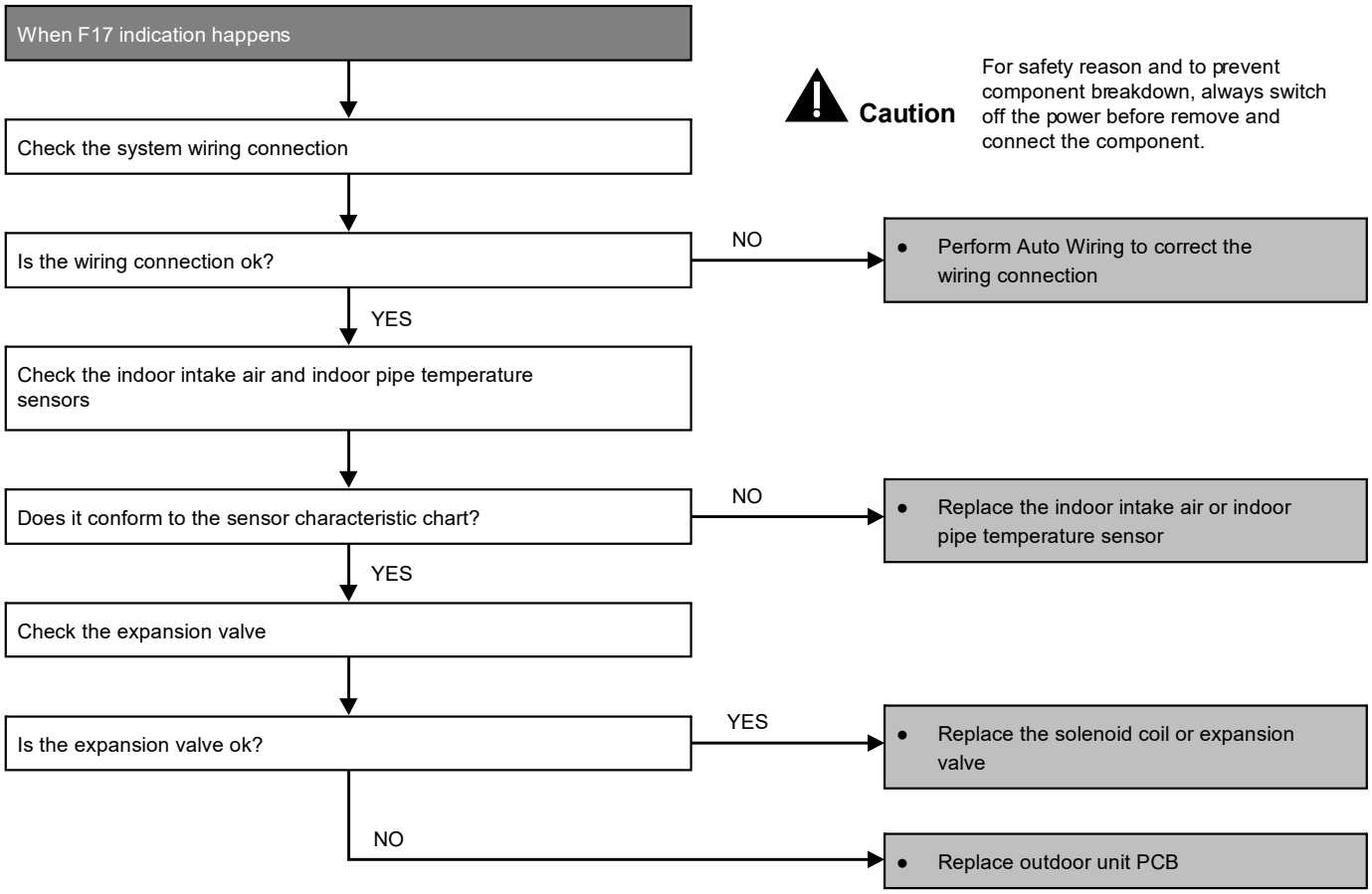
- When the different between indoor intake air temperature and indoor pipe temperature is above 10°C or indoor pipe temperature is below -1.0°C.

  Remark:
  When the indoor standby unit is freezing, the outdoor unit transfers F17 error code to the corresponding indoor unit and H39 to other indoor unit(s).

Malfunction Caused

- Wrong wiring connection
- Faulty sensor
- Faulty expansion valve

Troubleshooting



17.4.23 F90 (Power Factor Correction Protection)

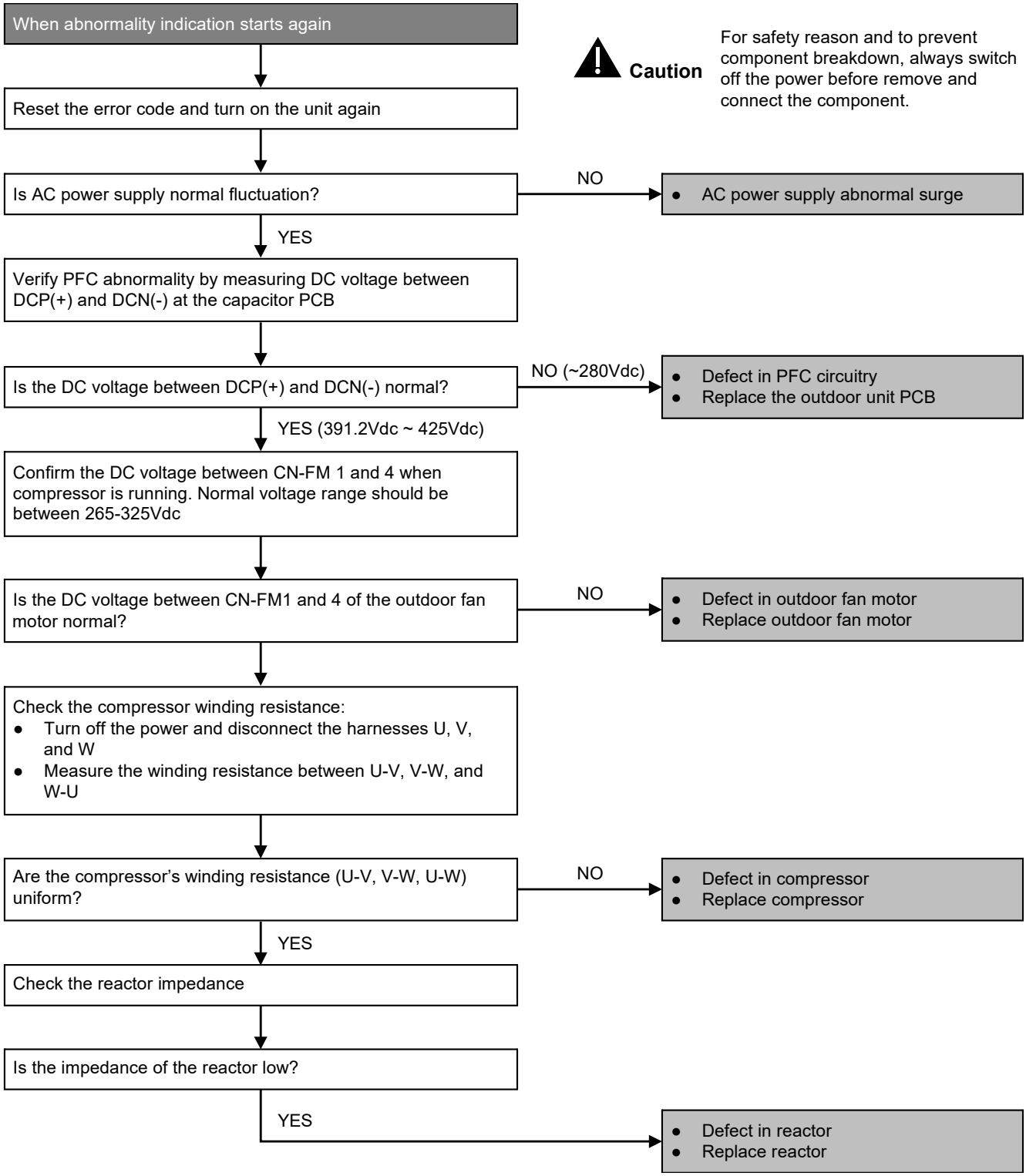
Malfunction Decision Conditions

- To maintain DC voltage level supply to power transistor.
- To detect high DC voltage level after rectification.

Malfunction Caused

- During startup and operation of cooling and heating, when Power Factor Correction (PFC) protection circuitry at the outdoor unit main PCB senses abnormal DC voltage level for power transistors.
- When DC voltage detected is LOW, transistor switching will turn ON by controller to push-up the DC level.
- When DC voltage detected is HIGH (391Vdc – 425Vdc), active LOW signal will send by the controller to turn OFF relay RY-C.

Troubleshooting



17.4.24 F91 (Refrigeration Cycle Abnormality)

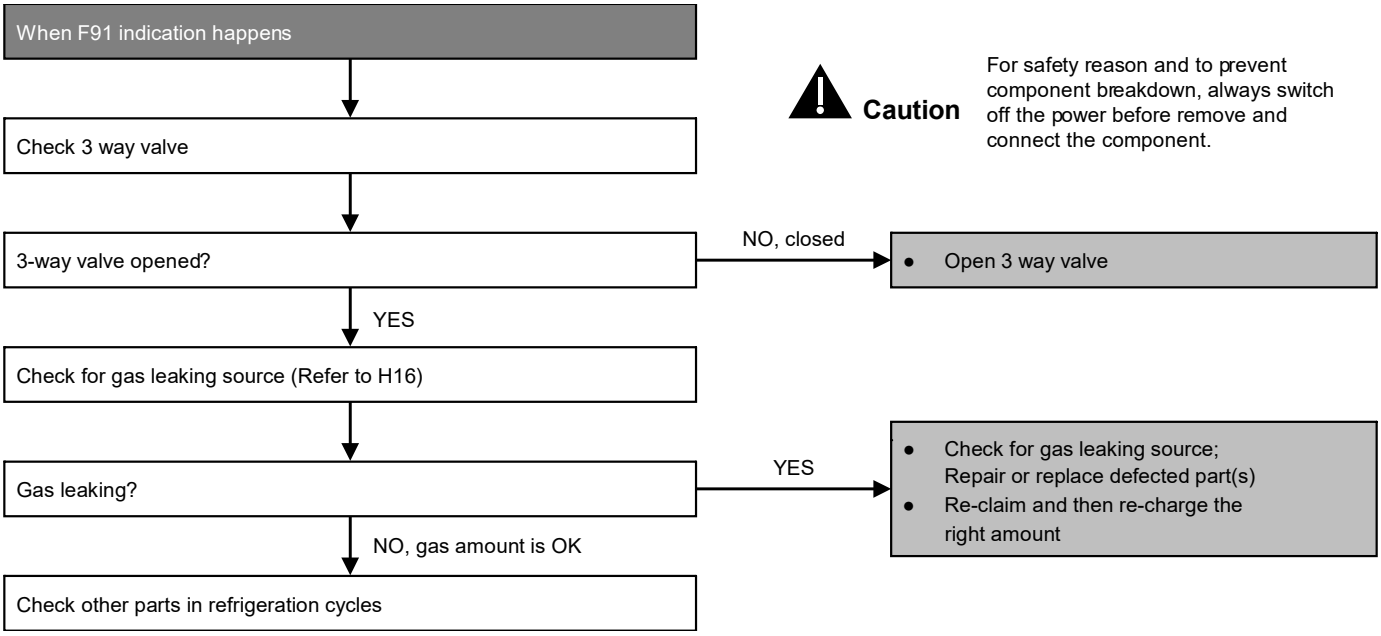
Malfunction Decision Conditions

- The input current is low while the compressor is running at higher than the setting frequency.

Malfunction Caused

- Lack of gas.
- 3-way valve close.

Troubleshooting



17.4.25 F93 (Compressor Rotation Failure)

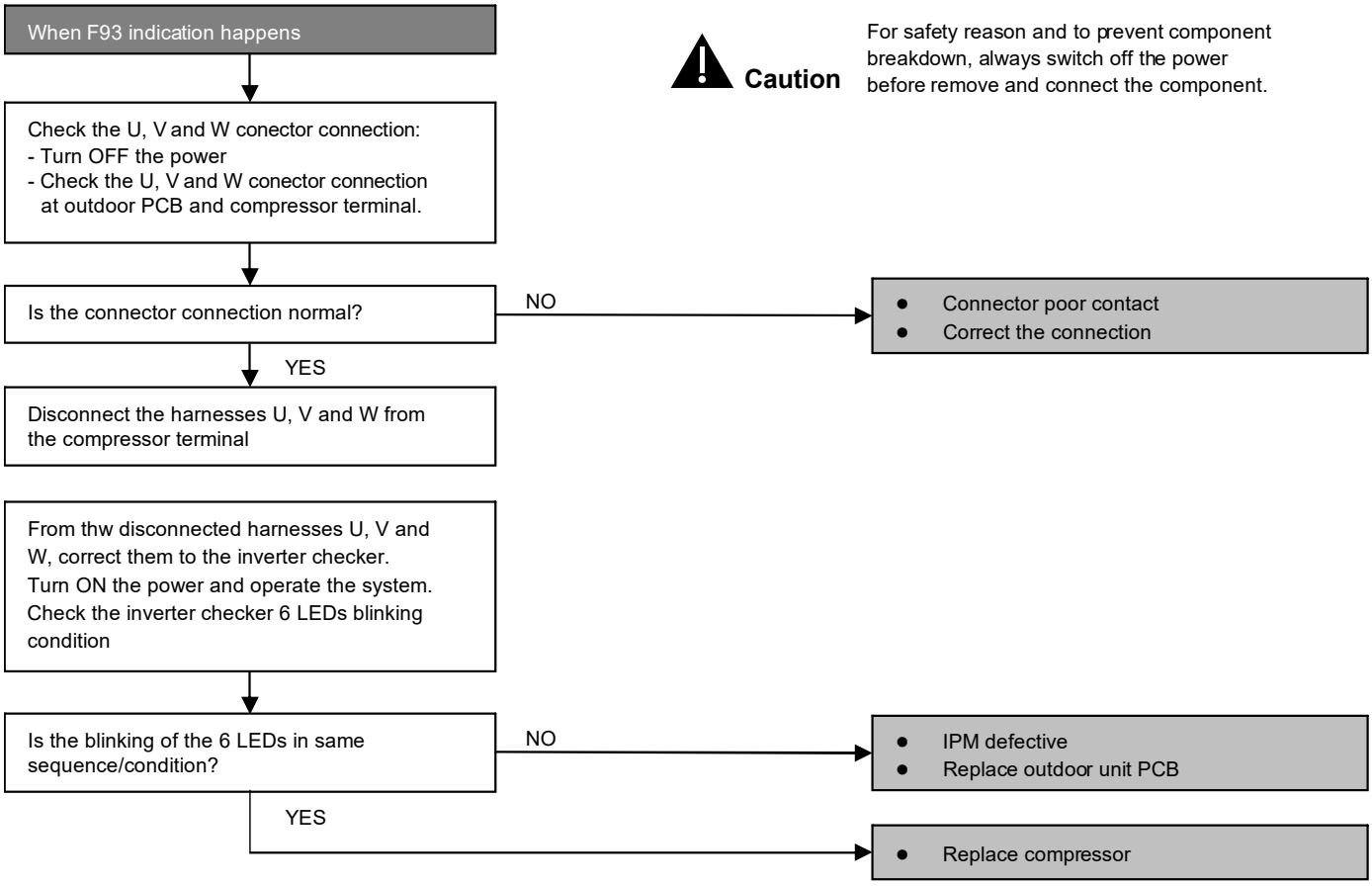
Malfunction Decision Conditions

- A compressor rotation failure is detected by checking the compressor running condition through the position detection circuit.

Malfunction Caused

- Compressor terminal disconnect
- Faulty Outdoor PCB
- Faulty compressor

Troubleshooting



17.4.26 F95 (Outdoor High Pressure Protection: Cooling or Soft Dry)

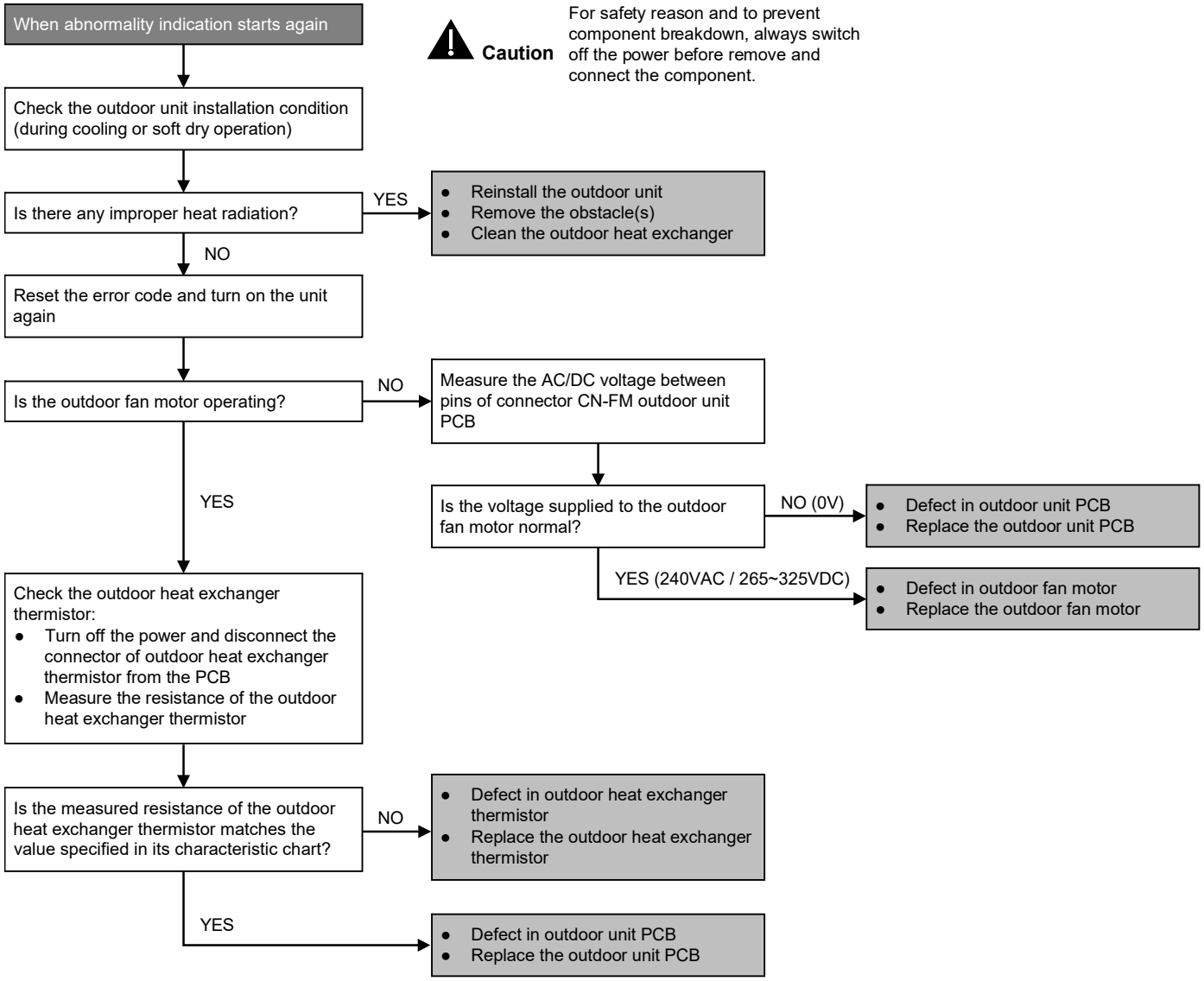
Malfunction Decision Conditions

- During operation of cooling or soft dry, when outdoor unit heat exchanger high temperature data is detected by the outdoor unit heat exchanger thermistor.

Malfunction Caused

- Outdoor heat exchanger temperature rise due to short-circuit of hot discharge air flow.
- Outdoor heat exchanger temperature rise due to defective of outdoor fan motor.
- Outdoor heat exchange temperature rise due to defective outdoor heat exchanger thermistor.
- Outdoor heat exchanger temperature rise due to defective of outdoor unit PCB.

Troubleshooting



17.4.27 F96 (IPM Overheating)

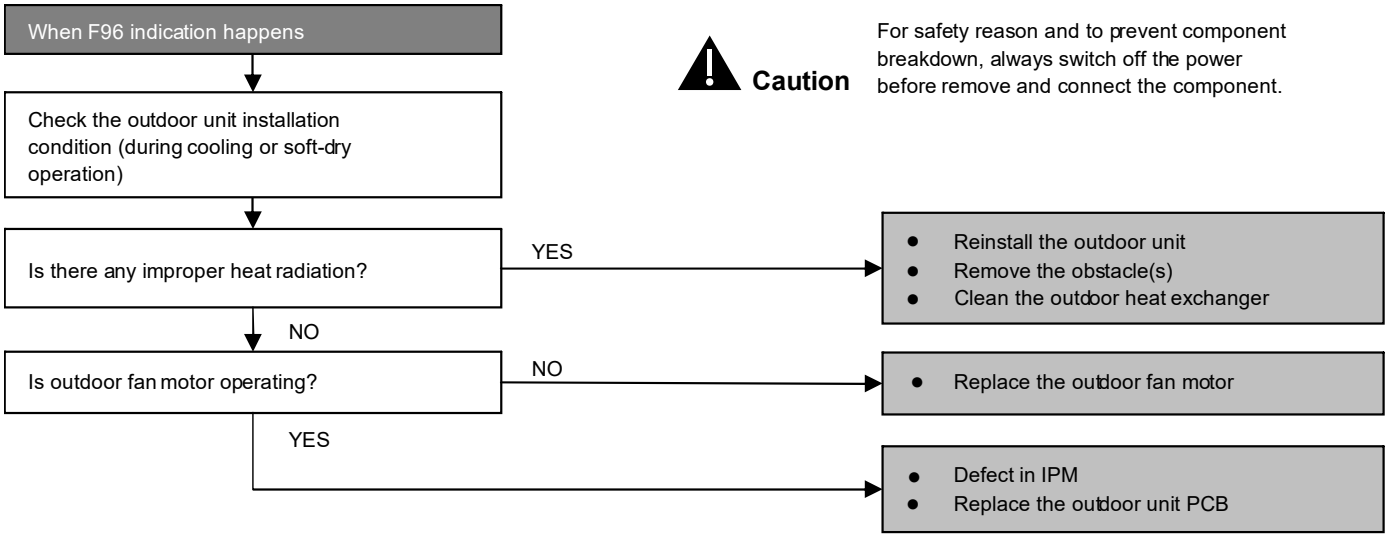
Malfunction Decision Conditions

- During operating of cooling and heating, when IPM temperature data (100°C) is detected by the IPM temperature sensor.
  Multi Models only
  - Compressor Overheating: During operation of cooling and heating, when the compressor OL is activated.
  - Heat Sink Overheating: During operation of cooling and heating, when heat sink temperature data (90°C) is detected by the heat sink temperature sensor.

Malfunction Caused

- IPM overheats due to short circuit of hot discharge air flow.
- IPM overheats due to defective of outdoor fan motor.
- IPM overheats due to defective of internal circuitry of IPM.
- IPM overheats due to defective IPM temperature sensor.
  Multi Models Only
  - Compressor OL connector poor contact.
  - Compressor OL faulty.

Troubleshooting



17.4.28 F97 (Compressor Overheating)

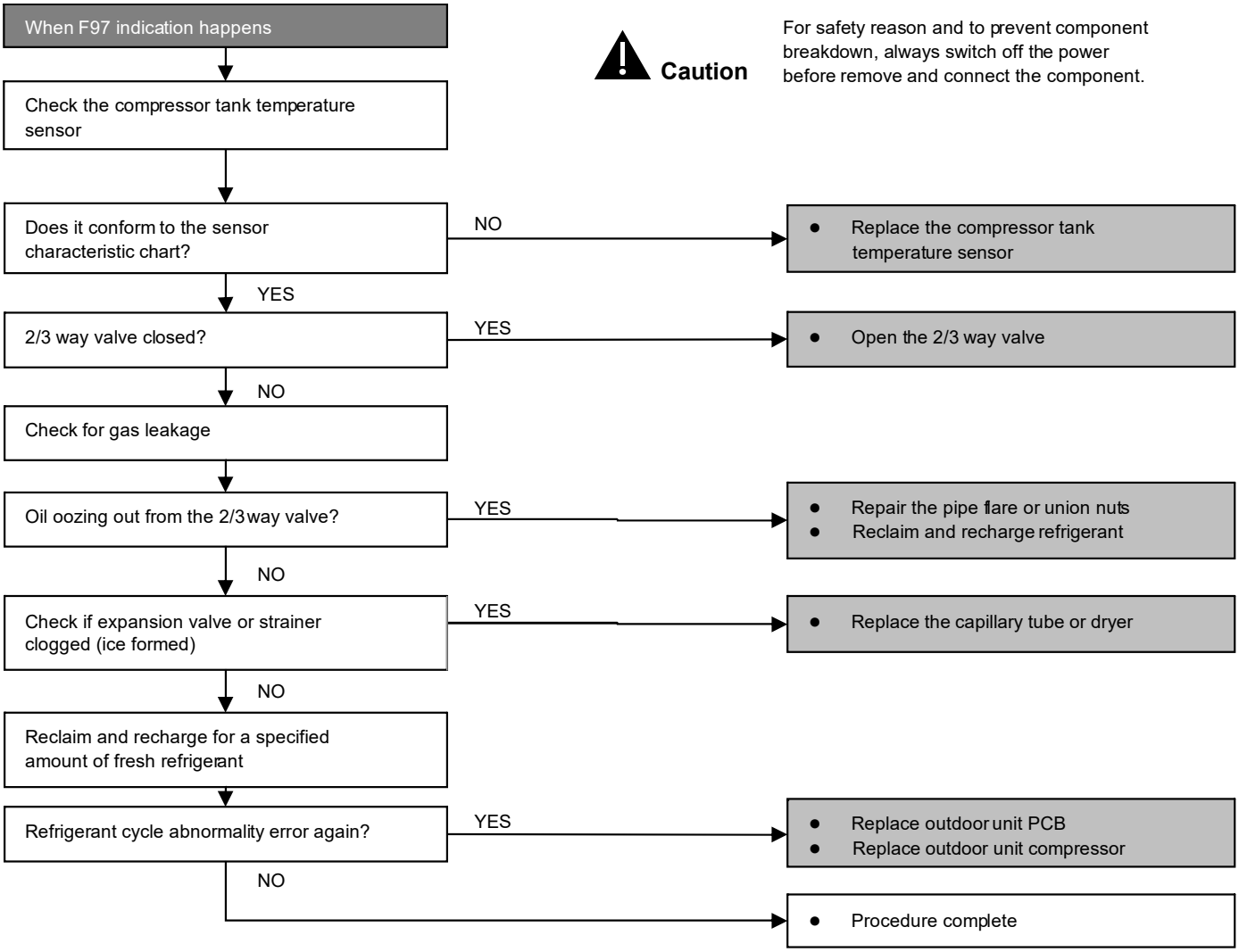
Malfunction Decision Conditions

- During operation of cooling and heating, when compressor tank temperature data (112°C) is detected by the compressor tank temperature sensor.

Malfunction Caused

- Faulty compressor tank temperature sensor
- 2/3 way valve closed
- Refrigerant shortage (refrigerant leakage)
- Faulty outdoor unit PCB
- Faulty compressor

Troubleshooting



17.4.29 F98 (Input Over Current Detection)

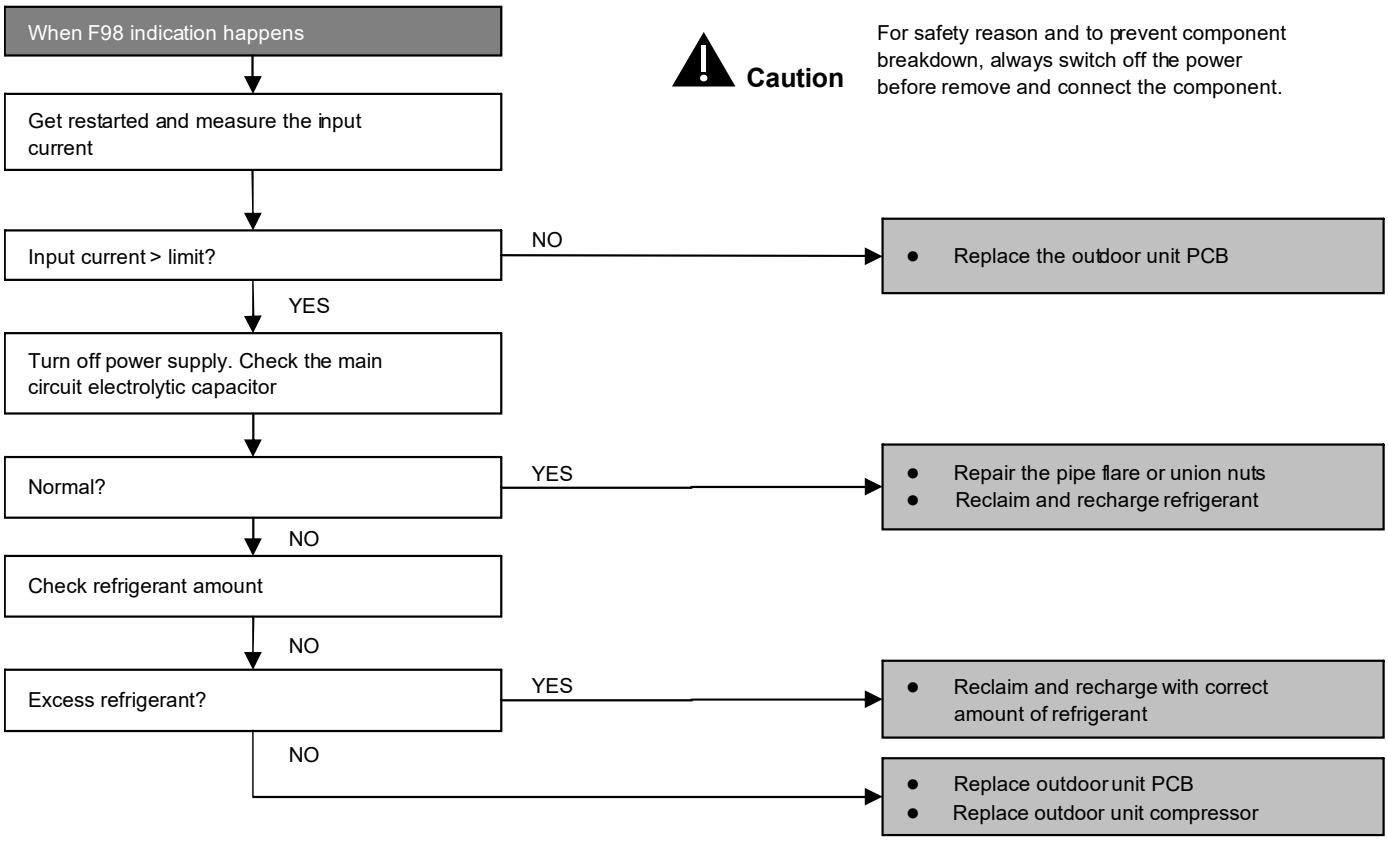
Malfunction Decision Conditions

- During operation of cooling and heating, when an input over-current (X value in Total Running Current Control) is detected by checking the input current value being detected by current transformer (CT) with the compressor running.

Malfunction Caused

- Excessive refrigerant.
- Faulty outdoor unit PCB.

Troubleshooting



17.4.30 F99 (DC Peak Detection)

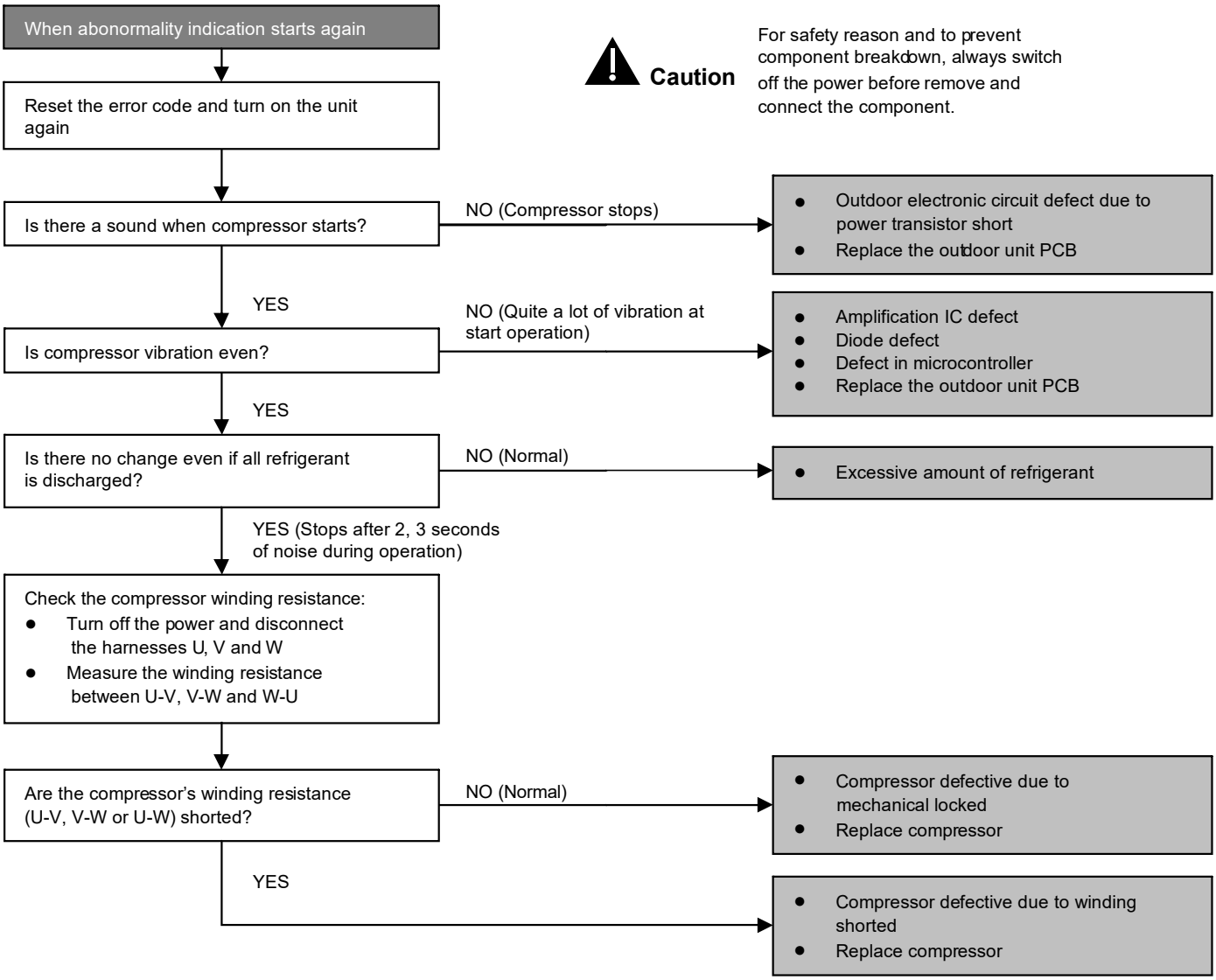
Malfunction Decision Conditions

During startup and operation of cooling and heating, when inverter DC peak data is received by the outdoor internal DC Peak sensing circuitry.

Malfunction Caused

- DC current peak due to compressor failure.
- DC current peak due to defective power transistor(s).
- DC current peak due to defective outdoor unit PCB.
- DC current peak due to short circuit.

Troubleshooting



18. Disassembly and Assembly Instructions

⚠ WARNING

High Voltage is generated in the electrical parts area by the capacitor. Ensure that the capacitor has discharged sufficiently before proceeding with repair work. Failure to heed this caution may result in electric shocks.

⚠ CAUTION

To maintain the indoor unit's appearance, some precaution needs to be taken during installation or servicing activities.

1) Avoid direct contact between the indoor unit with rough or sharp surfaces that could cause scratches on the matte surface.(e.g. floor, installation tools, fingernails)
2) When placing the unit on the ground, ensure there is lining such as soft cloth between the unit and the ground surface / floor to prevent any scratching.
3) When handling the unit, it is encourage to wear gloves to avoid scratches by sharp or rough items (e.g. fingernails, screwdriver/powertool, rings, etc)
4) When cleaning the unit, use soft damp cloth. Do not use harsh chemicals such as thinner to clean the grilles which could corrode or leave marks on the paint coating.

18.1 Indoor Unit

18.1.1 Indoor Electronic Controllers, Cross Flow Fan and Indoor Fan Motor Removal Procedures

18.1.1.1 To Remove Front Grille

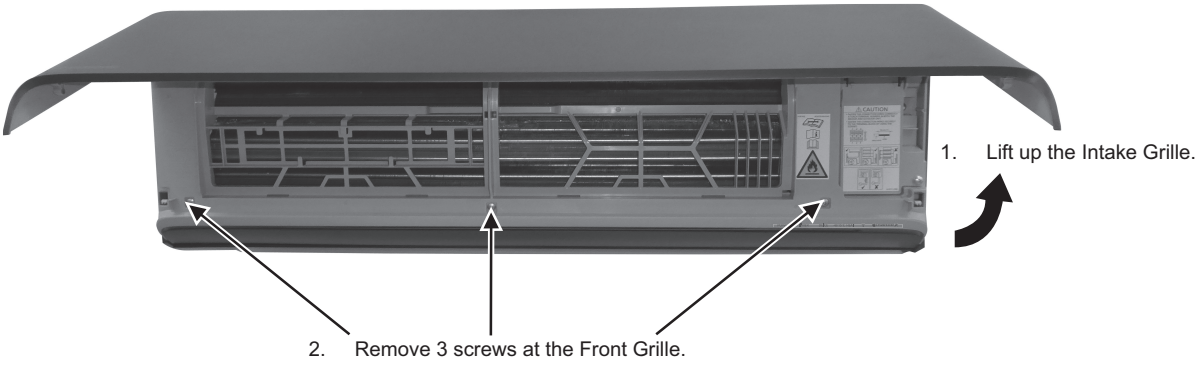


Figure 1

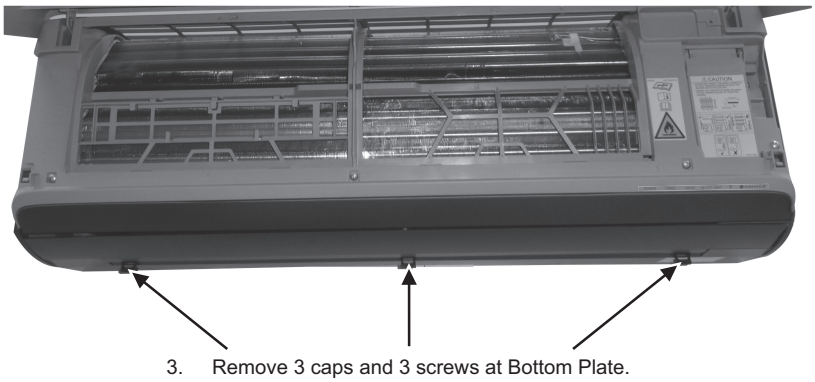


Figure 2

4. Detach the hook from left and right. Then remove the Bottom Plate.

Figure 3

5. Open the hooks on top of the Front Grille.

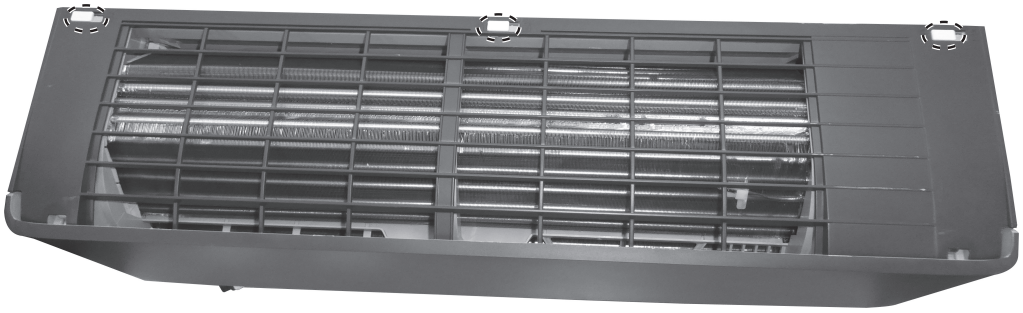


Figure 4

6. Remove the Front Grille.

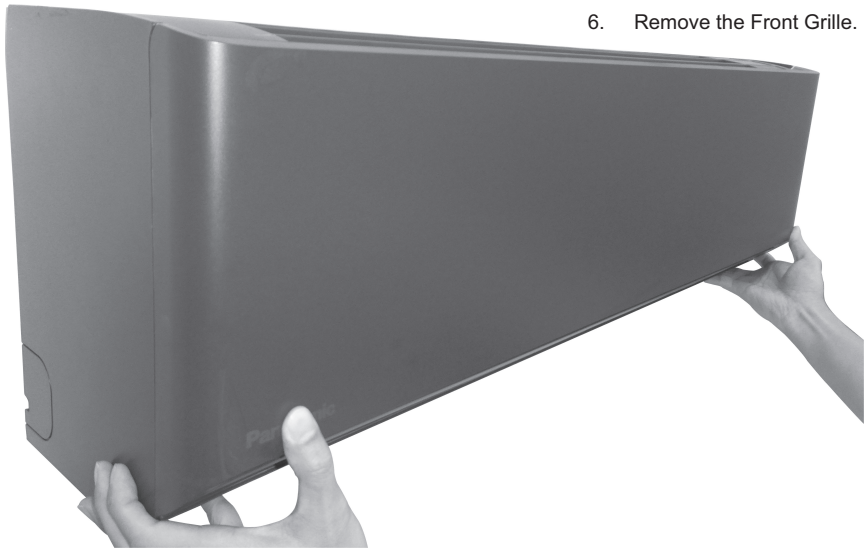


Figure 5

18.1.1.2 To Remove Electronic Controller

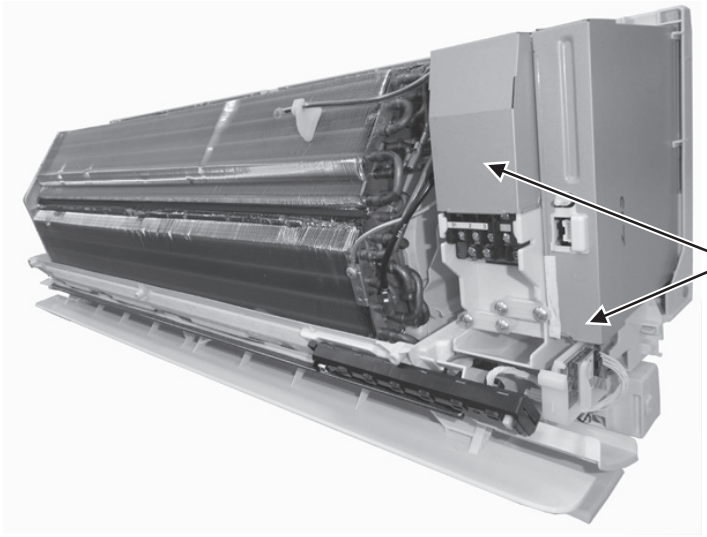


Figure 6

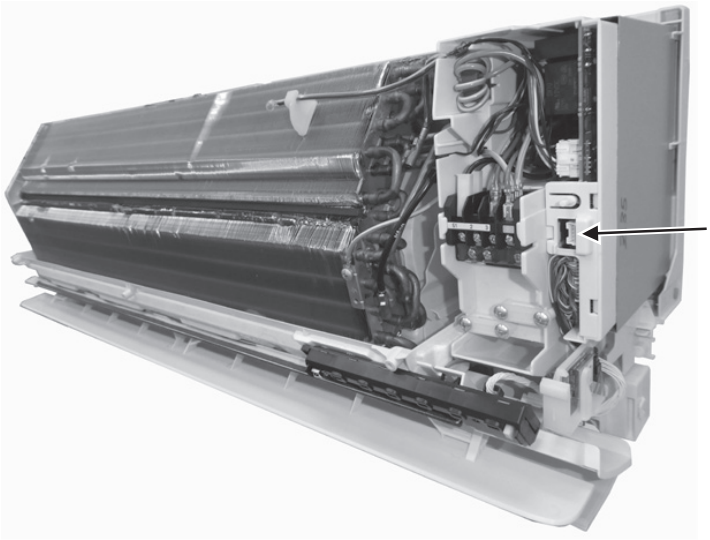


Figure 7

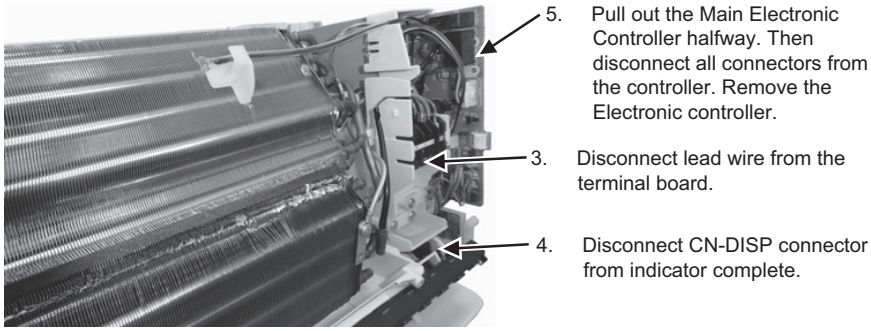


Figure 8

18.1.1.3 To Remove Discharge Grille

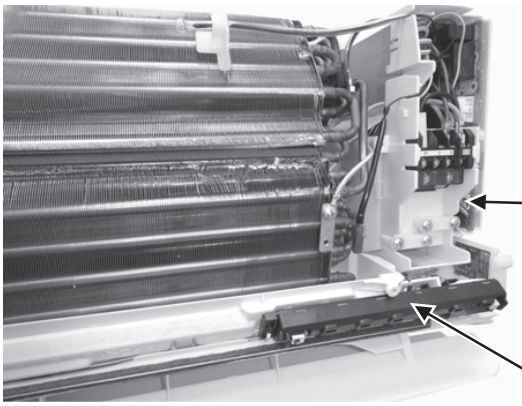


Figure 9

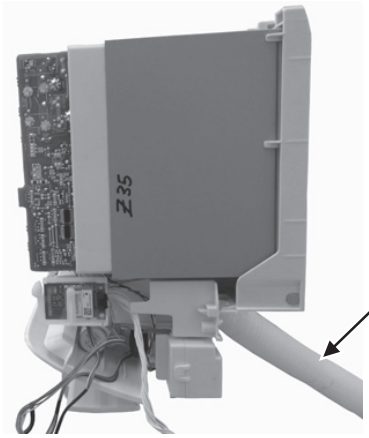


Figure 10

Figure 11

18.1.1.4 To Remove Cross Flow Fan

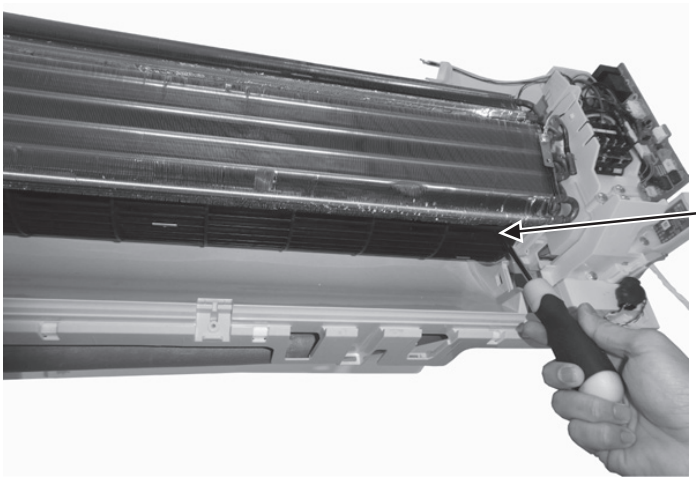


Figure 12

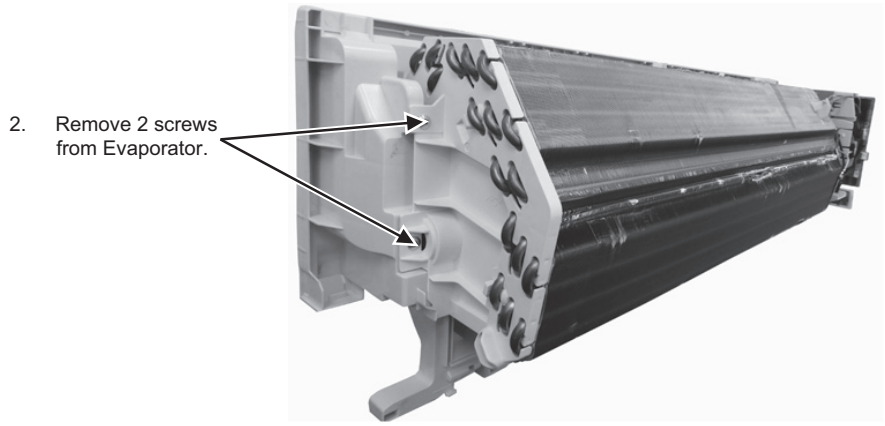


Figure 13

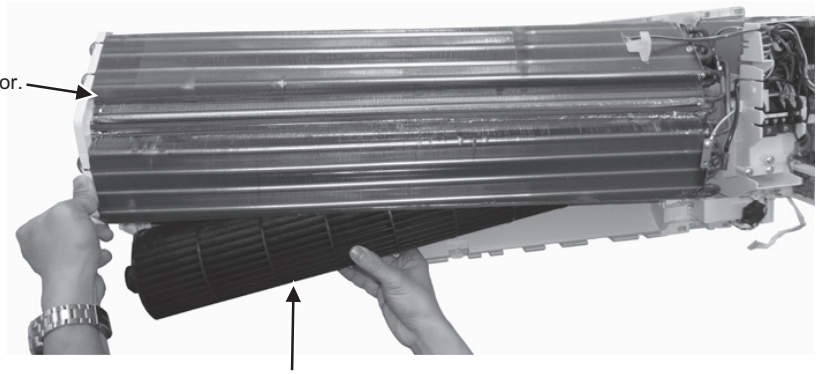


Figure 14

18.1.1.5 To Remove Fan Motor

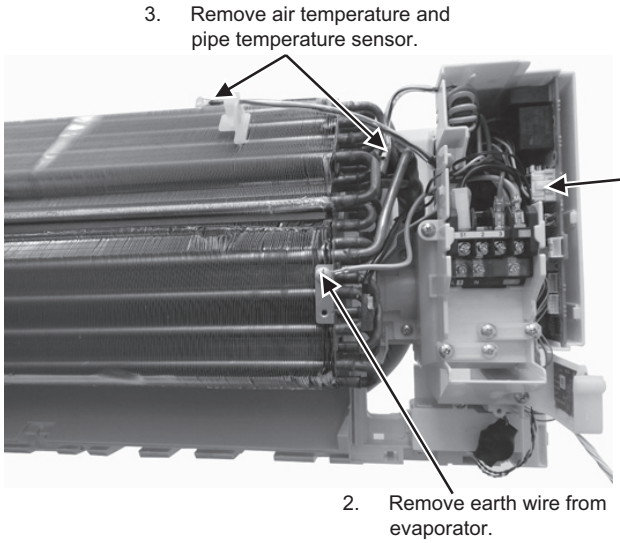


Figure 15

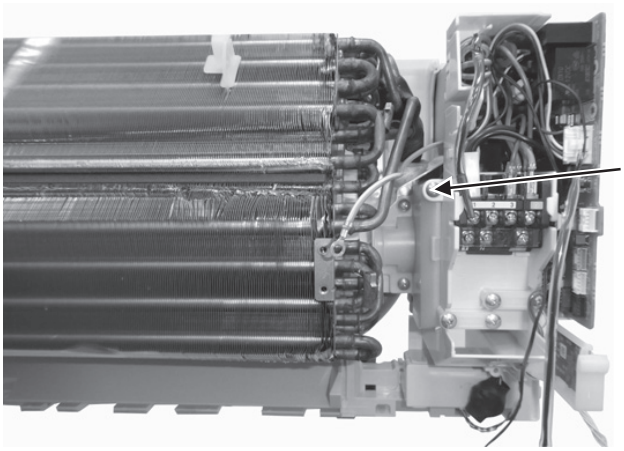


Figure 16

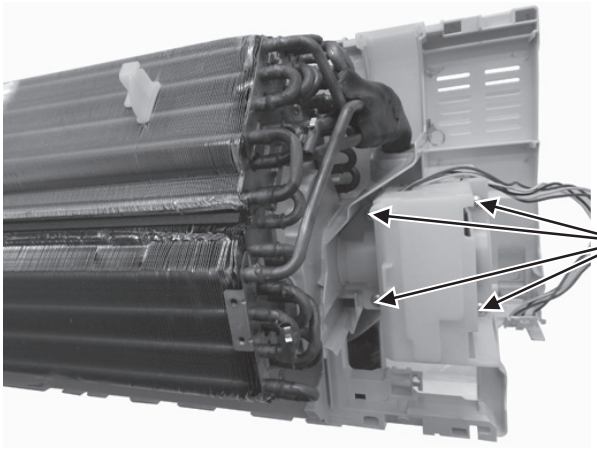
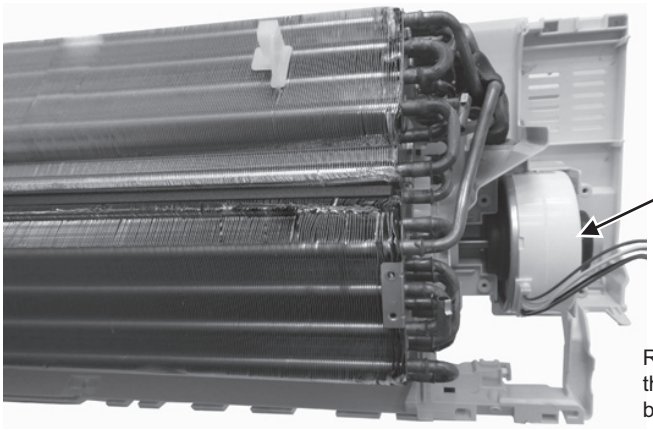


Figure 17



6. Remove Fan Motor.

Reminder: To reinstall the fan motor, adjust the fan motor connector to 60° towards you before fixing control board.

Figure 18

18.1.1.6 To Remove NanoeX

2. Remove CN-NANO from main electronic controller.

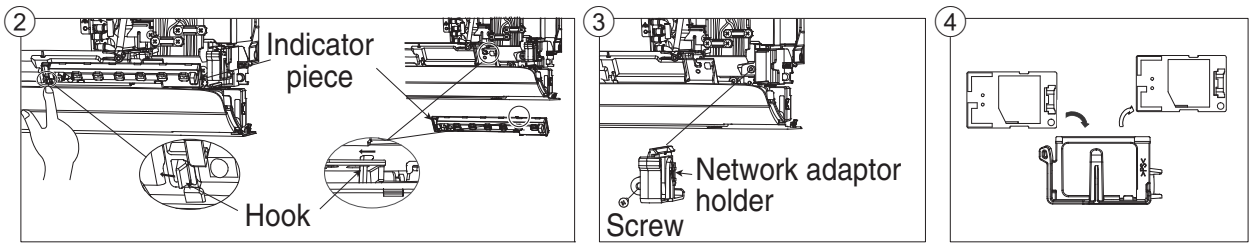
1. Remove discharge Grille.

3. Unscrew NanoeX complete. Then remove NanoeX complete.

Figure 19

18.1.1.7 To Replace Wireless LAN Module (Network Adapter)

1 Remove the front grille (refer how to take out front grille) from the unit.
2 Remove the indicator piece by releasing the hook.
3 Remove 1 mounting screw, then remove the network adaptor holder.
4 After that, network adaptor can be easily replaced.



Reminder: Serviceman or owner must setting again Panasonic Comfort Cloud app after replace Wireless LAN Module.

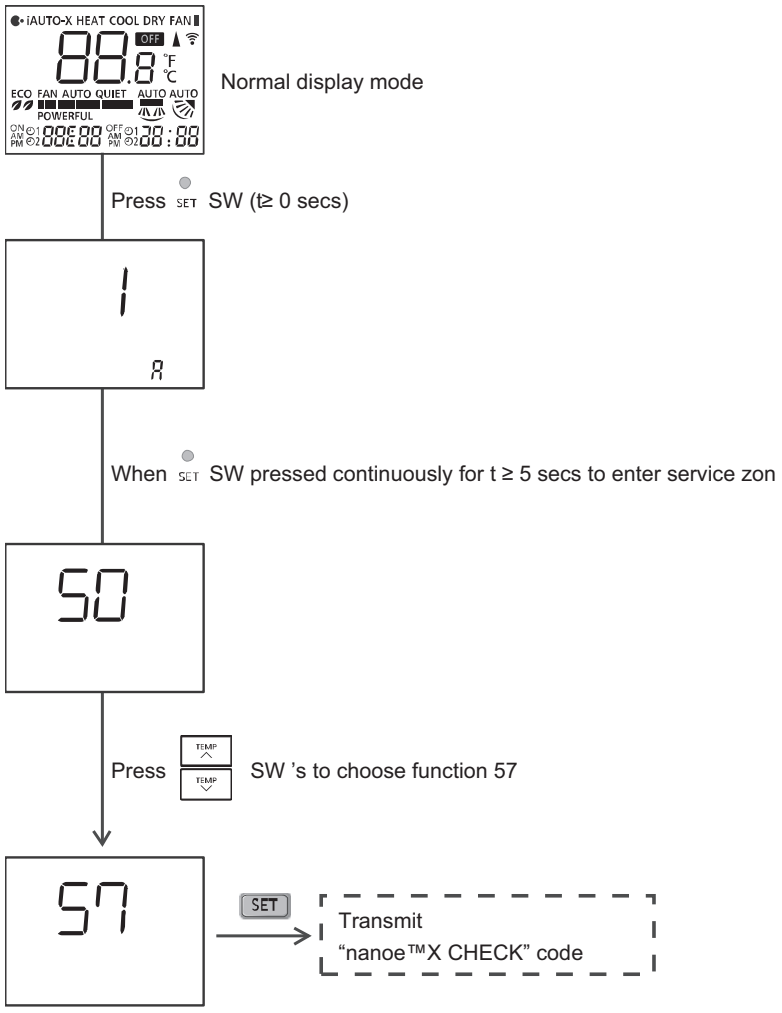
18.2 Replacement Procedure for Indoor Electronic Controller and WLAN (Part No: J2TD00000001) module

18.2.1.1 Replace Indoor Electronic Controller only

1 Turn OFF the power supply.
2 Replace the indoor electronic controller.
3 Turn ON the power supply.
4 If the WLAN LED is OFF, press the WLAN button on the remote controller once to turn ON WLAN. Comfort Cloud APP can be used right away. (Not required to re-register the device in App).
5 Weekly timer needs to re-set again.

18.2.1.2 Replace WLAN (Part No: J2TD00000001) module only

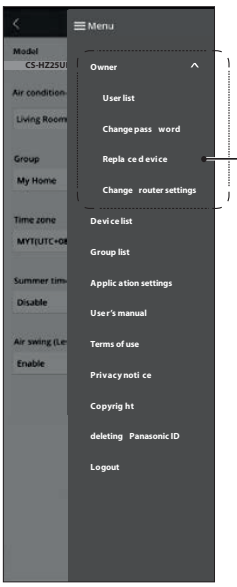
1 Turn OFF the power supply.
2 Replace the WLAN (Part No: J2TD00000001) module.
3 Turn ON the power supply.
4 Turn ON the WLAN.
  4.1 When the WLAN LED is OFF, Press the WLAN button once.
  4.2 When the WLAN LED is blinking or ON, Press the WLAN button once again to turn OFF WLAN (LED turns OFF). Press the WLAN button once again.
5 Within 60 seconds from the above 4.1 or 4.2. Execute "nanoe™X check code" by using the remote control.



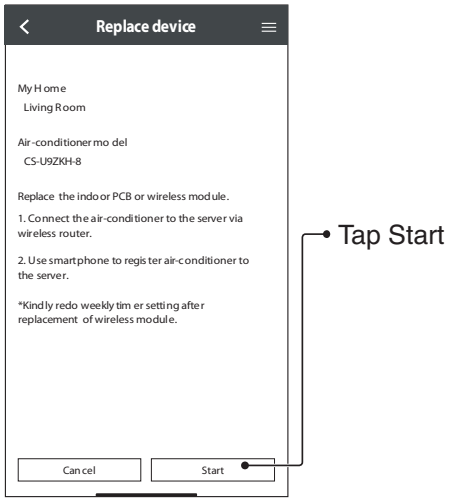
  5.1 After the WLAN LED blinks, it is completed when it lights up. If the light is off, the write-back operation has failed, so the procedure is required to be performed again from step 4).
6 Press the WLAN button once to turn OFF WLAN (LED turns OFF).

7 Re-register in the Comfort Cloud app (performed by the owner). Owner can be registered by using QR code.
   a. Perform re-registration from “Menu – Owner – Replace device” on the device main screen.

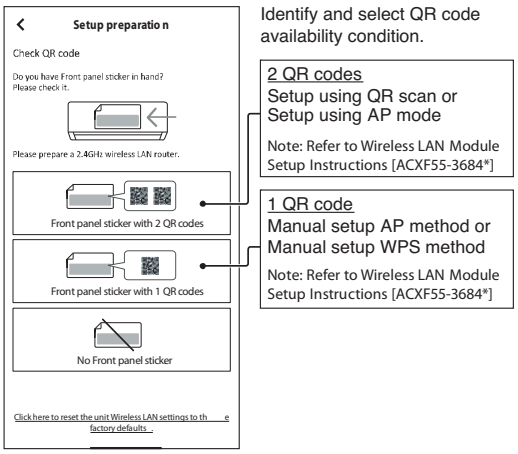
1.



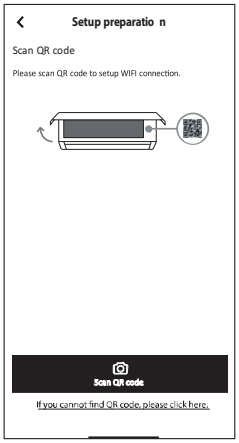
2.



3.



4.

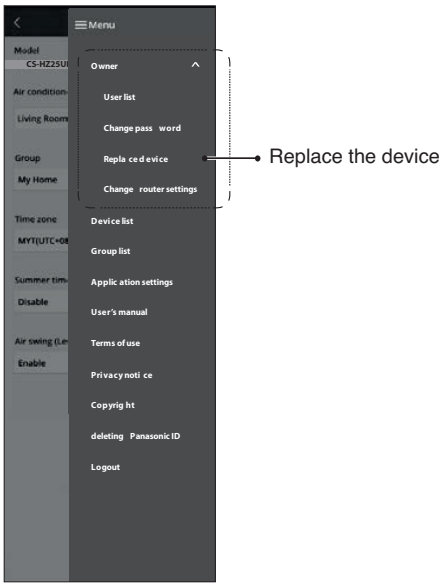


8 Refer to Wireless LAN Module Setup Instructions [ACXF55-3684*] for Setup using QR Scan instructions.
9 Weekly timer needs to re-set again.

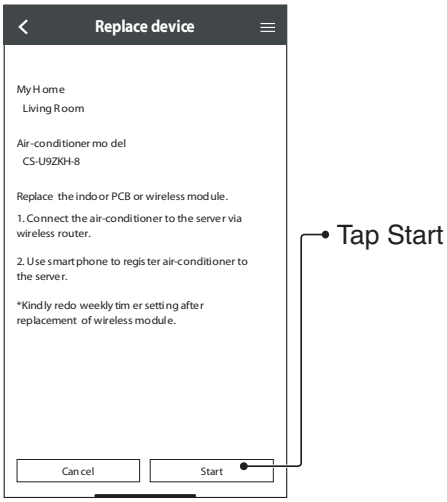
18.2.1.3 Replace Indoor Electronic Controller and WLAN (Part No: J2TD00000001) module

1 Turn OFF the power supply.
2 Replace the indoor electronic controller and WLAN (Part No: J2TD00000001) module.
3 Turn ON the power supply.
4 Re-registration in the Comfort Cloud App (performed by the owner).
  4.1 Perform re-registration from “Menu – Owner – Replace device” on the device main screen.
  4.2 Registration by QR code is not possible (registration by Soft AP mode *1).
  4.3 When a new user registers a device, please register with a Soft AP mode *1.

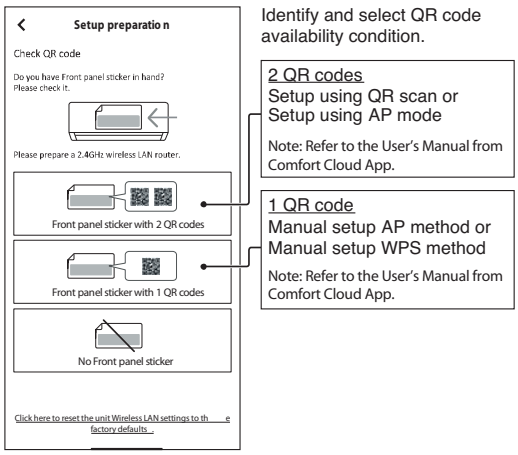
1.



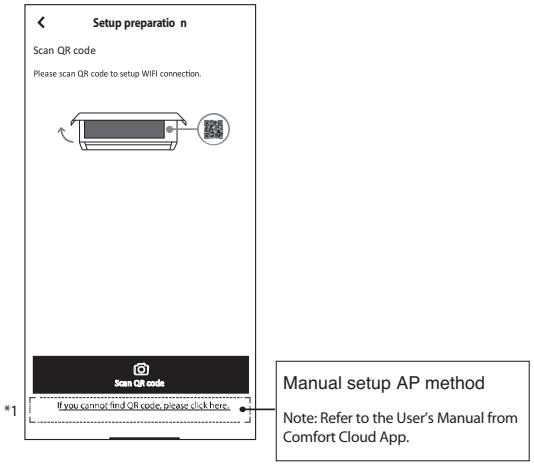
2.



3.



4.



5 Weekly timer needs to re-set again.

18.3 To setup Wireless LAN Module and Panasonic Comfort Cloud

Note: Refer to the User’s Manual from Comfort Cloud App.
1. Sign-in “Panasonic Comfort Cloud” app.
2. Under Menu, select “User’s Manual”.

18.4 Outdoor Electronic Controller Removal Procedure

⚠ Caution! When handling electronic controller, be careful of electrostatic discharge.

1. Remove the 5 screws of the Top Plate. Lift up the left side of the Top Plate first, then remove the Top Plate.

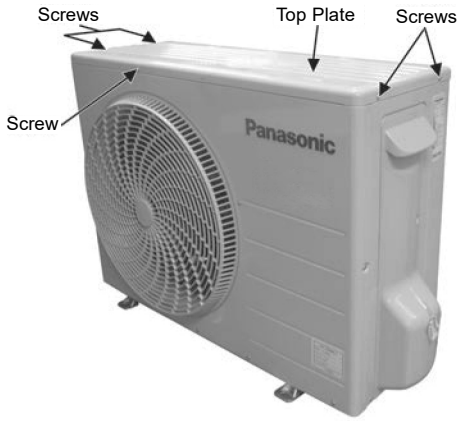


Fig. 1

2. Remove the 8 screws of the Cabinet Front Plate complete.

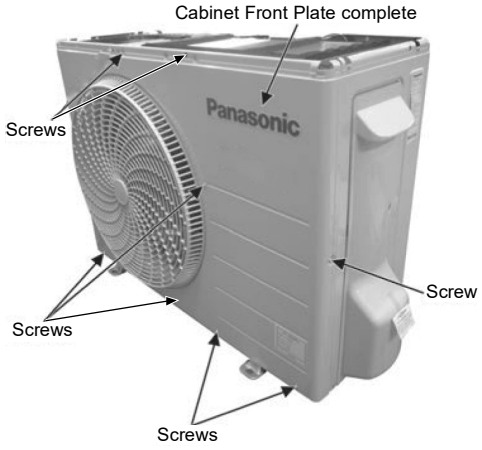


Fig. 2

3. Remove the screw of the Terminal Board Cover.
4. Remove the Top Cover of the Control Board by 4 hooks.

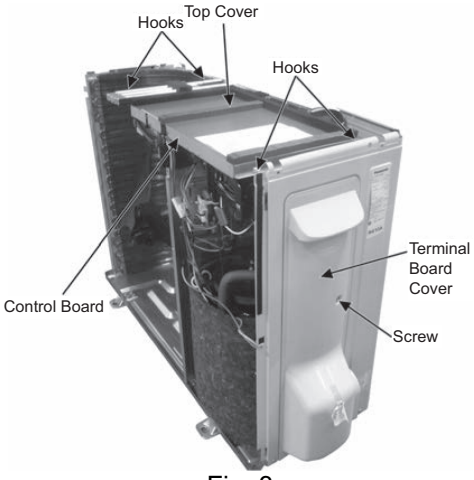


Fig. 3

5. Remove the Control Board as follows:

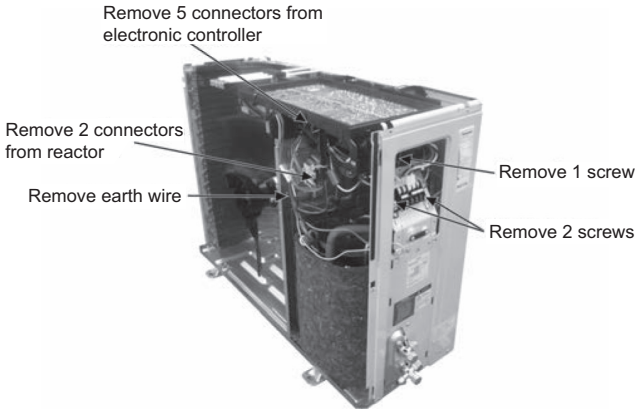


Fig. 4

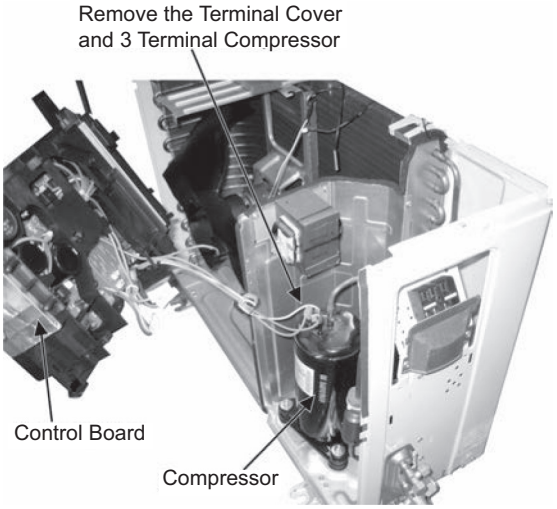


Fig. 5

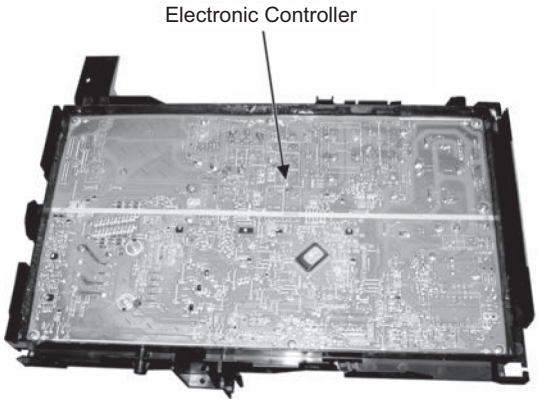


Fig. 6

19. Technical Data

Technical data provided are based on the air conditioner running under free frequency.

19.1 Cool Mode Performance Data

Unit setting: Standard piping length, Hi Fan, Cool mode at 16.0°C
Voltage: 230V

19.1.1 CS-HZ25ZKE CU-HZ25ZKE / CS-HZ25ZKE-H CU-HZ25ZKE / CS-HZ25ZKE-5 CU-HZ25ZKE-5 / CS-HZ25ZKE-5-H CU-HZ25ZKE-5

Indoor (°C)		Outdoor DB (°C)								
DB	WB	16			25			35		
		TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
27	19.0	3041	2774	259	2955	2758	350	2500	2492	455
	22.0	3418	2141	246	3226	2033	348	2857	1902	452
23	15.7	2784	2702	271	2617	2591	357	2351	2328	450
	18.4	3139	2089	264	2885	2027	352	2498	1841	450
20	13.3	2618	2593	277	2391	2367	356	2163	2141	450
	15.8	2880	2085	271	2614	1958	354	2327	1804	451

(Dry bulb value based on 46% humidity)

19.1.2 CS-HZ35ZKE CU-HZ35ZKE / CS-HZ35ZKE-H CU-HZ35ZKE

Indoor (°C)		Outdoor DB (°C)								
DB	WB	16			25			35		
		TC	SHC	IP	TC	SHC	IP	TC	SHC	IP
27	19.0	4353	3756	455	4230	3734	615	3500	3373	800
	22.0	4894	2899	432	4618	2752	611	4091	2575	796
23	15.7	3986	3659	476	3746	3552	628	3366	3329	792
	18.4	4494	2828	464	4129	2745	619	3577	2492	791
20	13.3	3748	3510	487	3422	3369	627	3096	3207	792
	15.8	4123	2823	477	3742	2651	623	3332	2442	792

(Dry bulb value based on 46% humidity)

TC - Total Cooling Capacity (W)
SHC - Sensible Heat Capacity (W)
IP - Input Power (W)

19.2 Heat Mode Performance Data

Unit setting: Standard piping length, Hi Fan, Heat mode at 30.0°C
Voltage: 230V

19.2.1 CS-HZ25ZKE CU-HZ25ZKE / CS-HZ25ZKE-H CU-HZ25ZKE / CS-HZ25ZKE-5 CU-HZ25ZKE-5 / CS-HZ25ZKE-5-H CU-HZ25ZKE-5

Indoor (°C)	Outdoor WB (°C)													
DB	-25/-26		-20/-21		-15/-16		-7/-8		2/1		7/6		12/11	
	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
24	3477	1624	3921	1827	4650	2001	4538	1932	5046	1910	6858	2153	7282	2150
20	3600	1620	4200	1750	4780	1880	5000	1940	5430	1910	7500	2160	7867	2131
16	3627	1520	4364	1693	4838	1742	4998	1830	5557	1912	7813	2152	8235	2143

19.2.2 CS-HZ35ZKE CU-HZ35ZKE / CS-HZ35ZKE-H CU-HZ35ZKE

Indoor (°C)	Outdoor WB (°C)													
DB	-25/-26		-20/-21		-15/-16		-7/-8		2/1		7/6		12/11	
	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP	TC	IP
24	3573	1685	4014	1900	4863	2108	4647	1992	5316	1990	7224	2243	7671	2240
20	3700	1680	4300	1820	5000	1980	5120	2000	5720	1990	7900	2250	8286	2220
16	3728	1576	4468	1761	5061	1835	5118	1887	5854	1992	8229	2242	8675	2232

TC - Total Cooling Capacity (W)
IP - Input Power (W)

20. Service Data

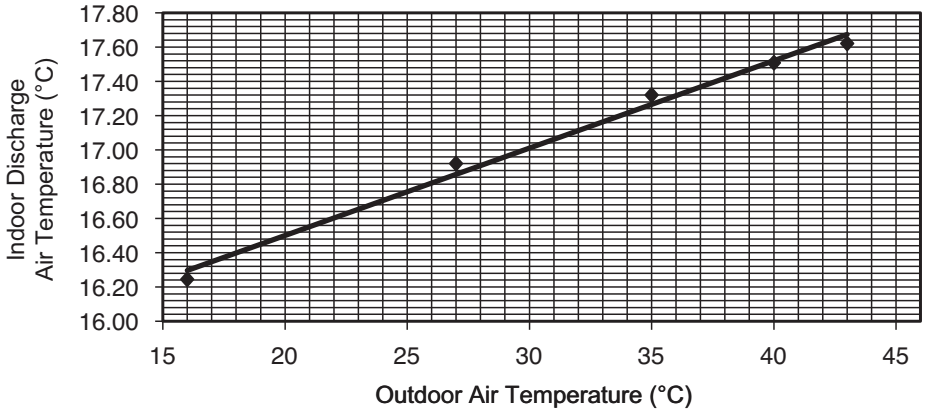
Service data provided are based on the air conditioner running under rated frequency during forced cooling / forced heating mode.

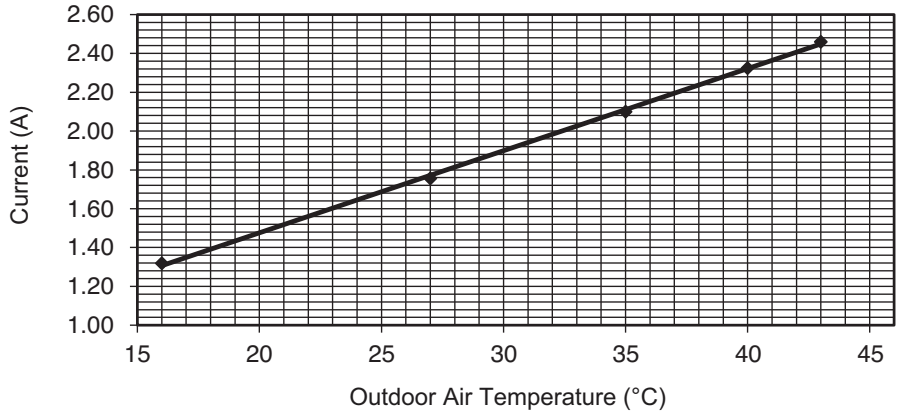
20.1 Cool Mode Outdoor Air Temperature Characteristic

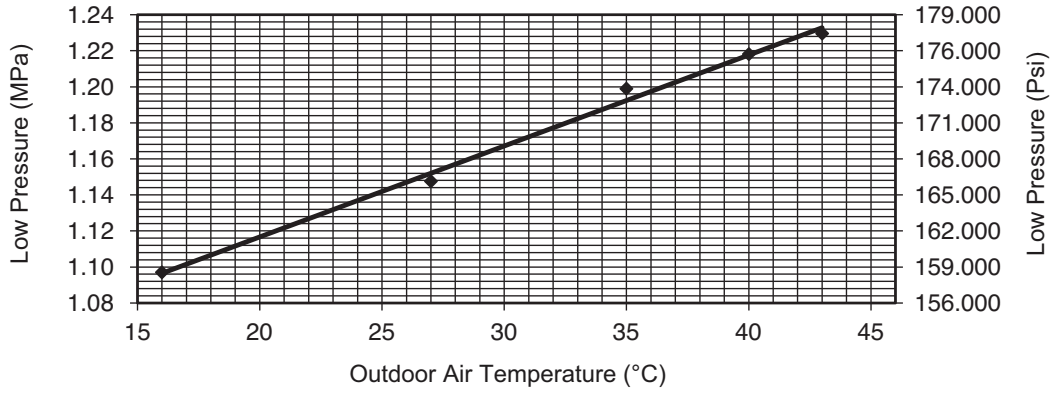
Condition

- Room Temperature: 27/19°C, Cooling Characteristic
- Fan: High
- Piping Length: 5.0 m
- Freq: Rated Fc

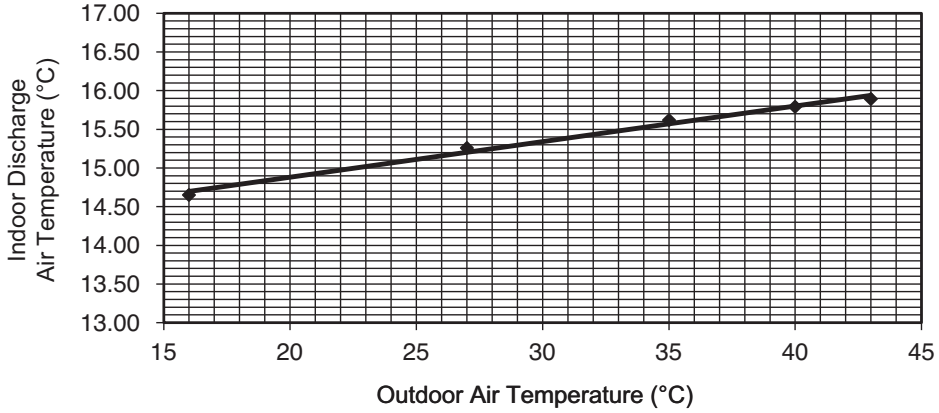
20.1.1 CS-HZ25ZKE CU-HZ25ZKE / CS-HZ25ZKE-H CU-HZ25ZKE / CS-HZ25ZKE-5 CU-HZ25ZKE-5 / CS-HZ25ZKE-5-H CU-HZ25ZKE-5

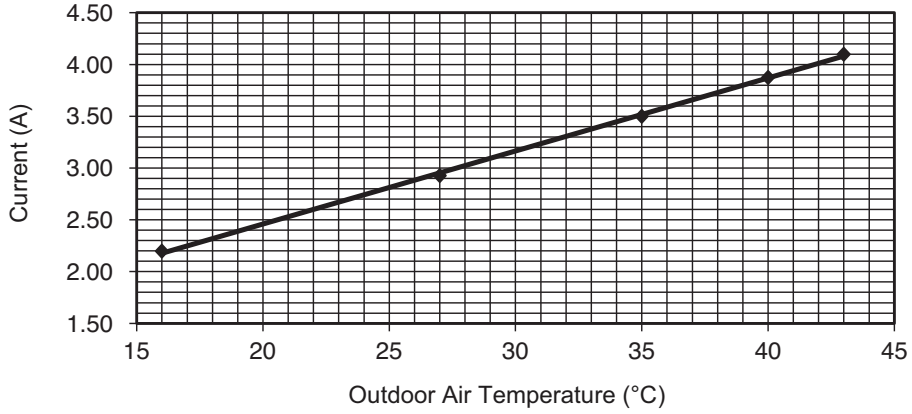


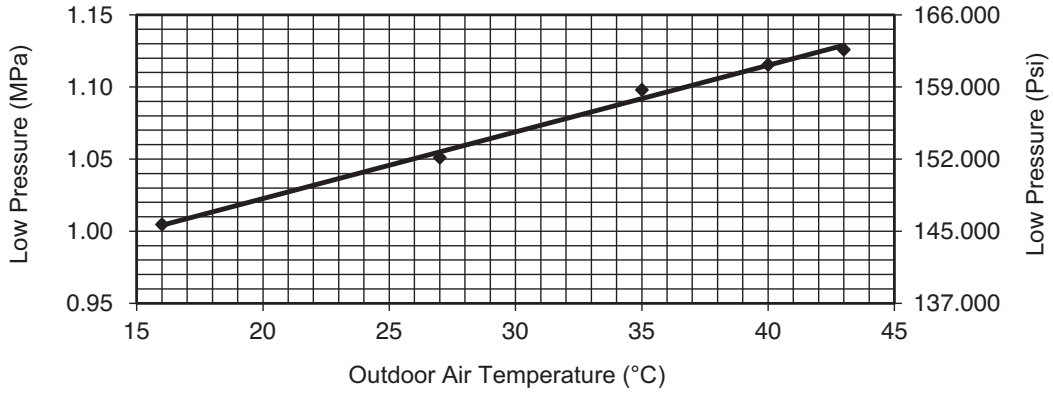




20.1.2 CS-HZ35ZKE CU-HZ35ZKE / CS-HZ35ZKE-H CU-HZ35ZKE





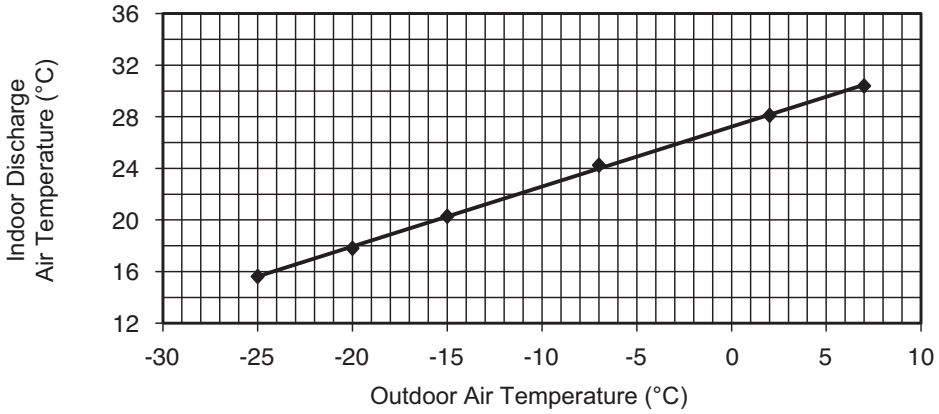


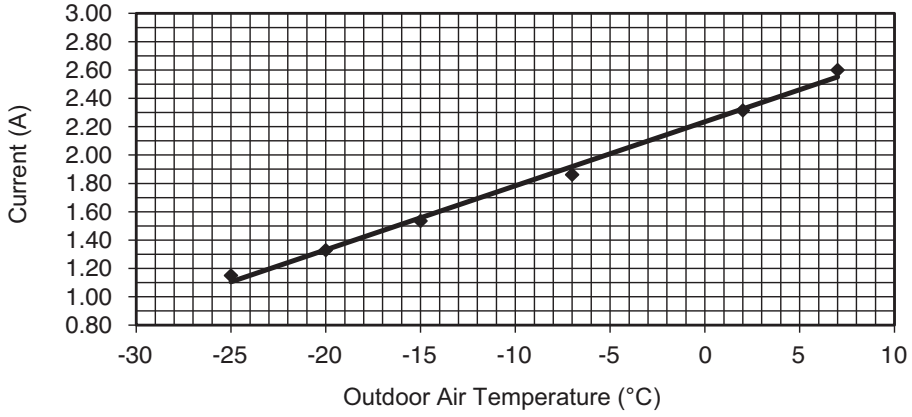
20.2 Heat Mode Outdoor Air Temperature Characteristic

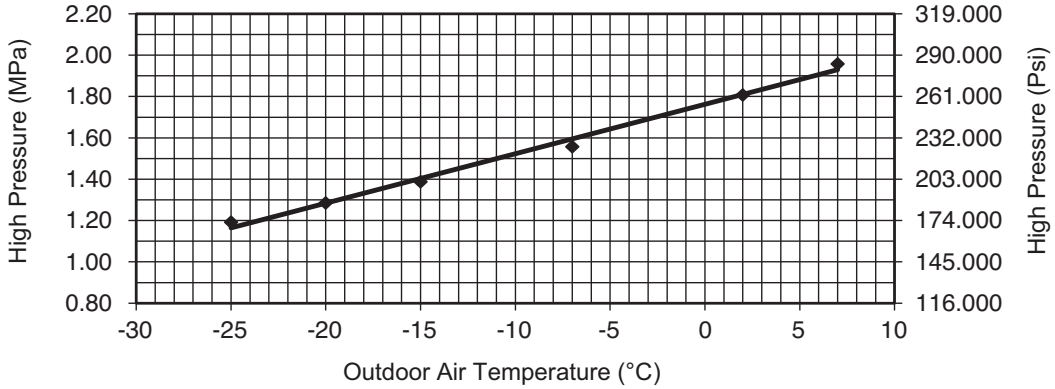
Condition

- Room Temperature: 20°C, Heating Characteristic
- Fan: High
- Piping Length: 5.0 m
- Freq: Rated Fh

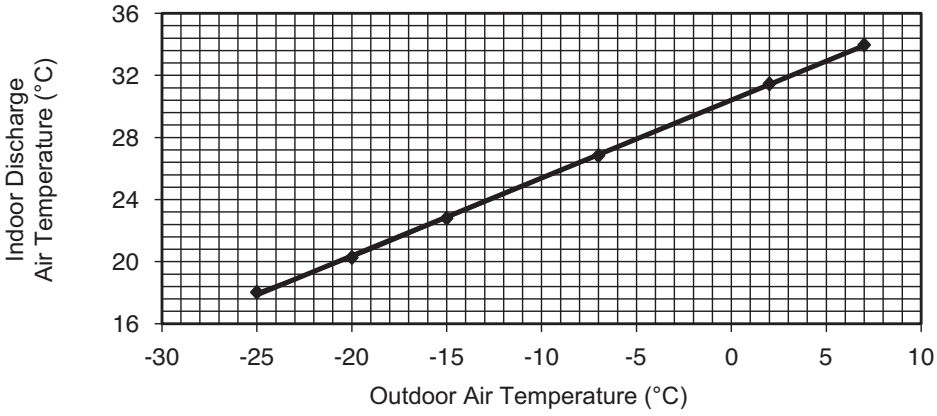
20.2.1 CS-HZ25ZKE CU-HZ25ZKE / CS-HZ25ZKE-H CU-HZ25ZKE / CS-HZ25ZKE-5 CU-HZ25ZKE-5 / CS-HZ25ZKE-5-H CU-HZ25ZKE-5

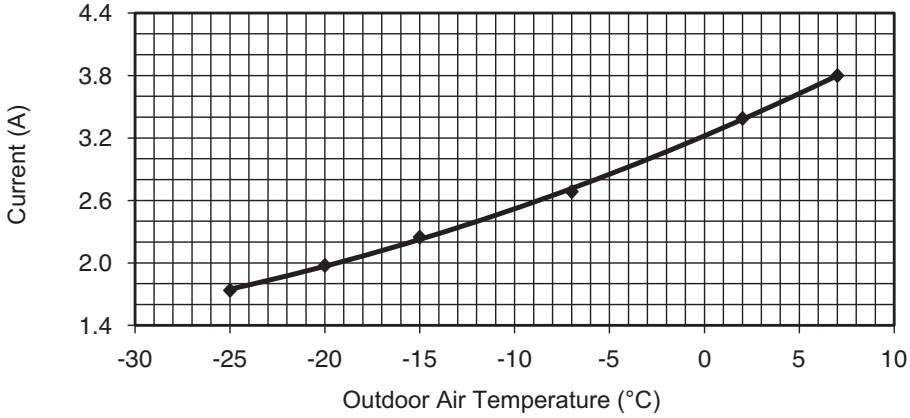


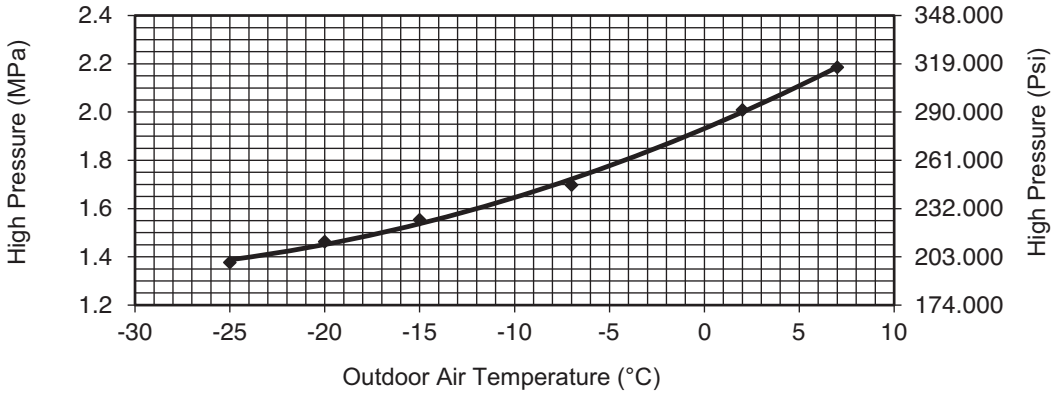




20.2.2 CS-HZ35ZKE CU-HZ35ZKE / CS-HZ35ZKE-H CU-HZ35ZKE



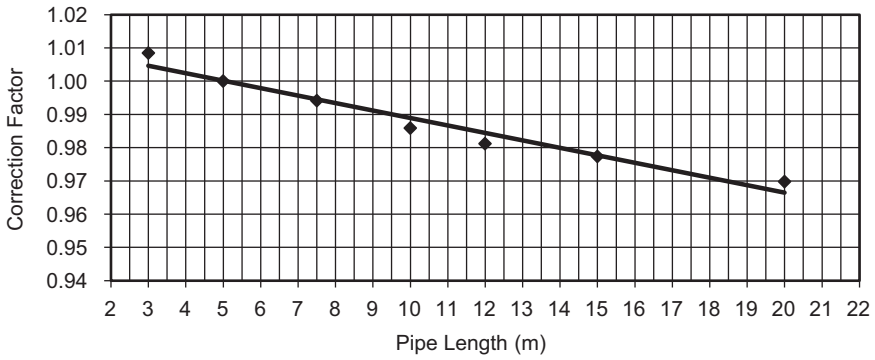




20.3 Piping Length Correction Factor

The characteristic of the unit has to be corrected in accordance with the piping length.

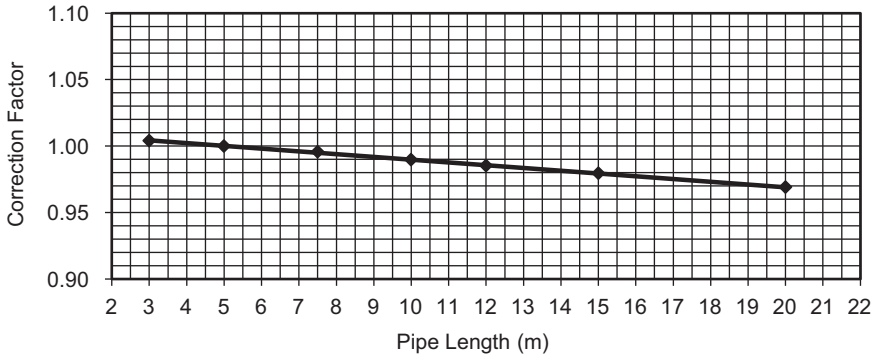
20.3.1 Cooling Capacity



Cooling Capacity

3	1.0084
5	1.0000
7.5	0.9941
10	0.9859
12	0.9812
15	0.9773
20	0.9698

20.3.2 Heating Capacity



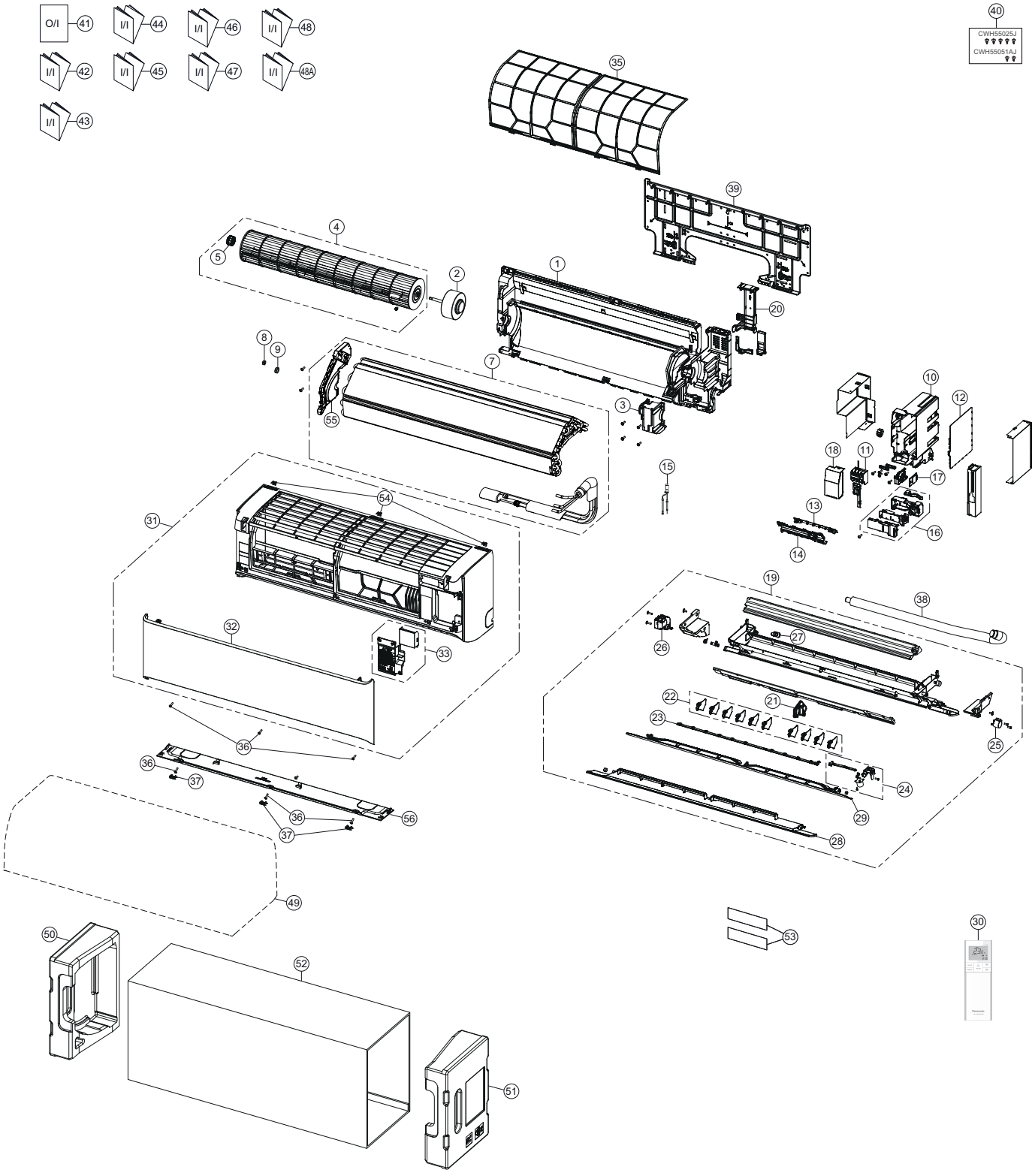
Heating Capacity

3	1.0041
5	1.0000
7.5	0.9956
10	0.9897
12	0.9853
15	0.9795
20	0.9690

Note: The graphs show the factor after added right amount of additional refrigerant

21. Exploded View and Replacement Parts List

21.1 Indoor Unit



Note
The above exploded view is for the purpose of parts disassembly and replacement.
The non-numbered parts are not kept as standard service parts.

SAFETY	REF. NO.	PART NAME & DESCRIPTION	QTY.	CS-HZ25ZKE	CS-HZ35ZKE	CS-HZ25ZKE-5	REMARK
	1	CHASSIS COMPLETE	1	ACXD50C04160	←	←	
⚠	2	FAN MOTOR	1	L6CBYYYL0474	←	←	O
	3	FAN MOTOR BRACKET	1	ACXD54-04360	←	←	
	4	CROSS-FLOW FAN COMPLETE	1	ACXH02C01480	←	←	
	5	BEARING ASSY	1	CWH64K1006	←	←	
	7	EVAPORATOR CO.	1	ACXB30C34580	←	←	O
	8	FLARE NUT (LIQUID)	1	CWT251030	←	←	
	9	FLARE NUT (GAS)	1	CWT251031	←	←	
	10	CONTROL BOARD CASING	1	ACXH10-08620	←	←	
⚠	11	TERMINAL BOARD COMPLETE	1	ACXA28C06560	←	←	O
⚠	12	ELECTRONIC CONTROLLER - MAIN	1	ACXA73C91730	ACXA73C91740	ACXA73C91730	O
⚠	13	ELECTRONIC CONTROLLER-INDICATOR	1	ACXA73-40520	←	←	O
	14	INDICATOR HOLDER	1	ACXD93-22430	←	←	
⚠	15	SENSOR COMPLETE	1	CWA50C2122	←	←	O
⚠	16	GENERATOR COMPLETE	1	ACXH94C01760	←	←	O
⚠	17	ELECTRONIC CONTROLLER -WIFI	1	ACXA73-45970	←	←	O
	18	CONTROL BOARD TOP COVER	1	ACXH13-08680	←	←	
	19	DISCHARGE GRILLE COMPLETE	1	ACXE20C06080	←	←	
	20	BACK COVER CHASSIS	1	ACXD93-22420	←	←	
	21	FULCRUM	1	ACXH62-00790	←	←	
	22	VERTICAL VANE	10	ACXE24-04000	←	←	
	23	CONNECTING BAR	1	ACXE26-02550	←	←	
⚠	24	AIR SWING MOTOR ASSY	1	ACXA98K00220	←	←	O
⚠	25	AIR SWING MOTOR	1	ACXA98-02420	←	←	O
	26	GEAR-COMPLETE	1	ACXH68C00520	←	←	
	27	CAP - DRAIN TRAY	1	CWH521096	←	←	
	28	HORIZONTAL VANE COMPLETE - BIG	1	ACXE24C04660	←	←	
	29	HORIZONTAL VANE COMPLETE	1	ACXE24C04670	←	←	
⚠	30	REMOTE CONTROL COMPLETE	1	ACXA75C24600	←	←	O
	31	FRONT GRILLE COMPLETE	1	ACXE10C14210	←	←	O
	32	INTAKE GRILLE COMPLETE	1	ACXE22K09860	←	←	
	33	GRILLE DOOR COMPLETE	1	ACXE14C01440	←	←	
	35	AIR FILTER	2	ACXD00-02990	←	←	
	36	SCREW - FRONT GRILLE	6	XTT4+16CFJ	←	←	
	37	CAP - FRONT GRILLE	3	ACXH52-04000	←	←	
	38	DRAIN HOSE	1	ACXH85-00211	←	←	
	39	INSTALLATION PLATE	1	ACXH36-00840	←	←	
	40	BAG COMPLETE - INSTALLATION SCREW	1	CWH82C1705	←	←	
	41	OPERATING INSTRUCTION	1	ACXF55-36760	←	←	
	42	INSTALLATION INSTRUCTION	1	ACXF60-52500	←	←	
	43	INSTALLATION INSTRUCTION	1	ACXF60-52510	←	←	
	44	INSTALLATION INSTRUCTION	1	ACXF60-52520	←	←	
	45	INSTALLATION INSTRUCTION	1	ACXF60-52530	←	←	
	46	INSTALLATION INSTRUCTION	1	ACXF60-52540	←	←	
	47	INSTALLATION INSTRUCTION	1	ACXF60-52550	←	←	
	48	INSTALLATION INSTRUCTION	1	ACXF60-52560	←	←	
	48A	INSTALLATION INSTRUCTION	1	ACXF60-52570	←	←	
	49	BAG	1	CWG861497	←	←	
	50	SHOCK ABSORBER - LEFT	1	ACXG70-12960	←	←	
	51	SHOCK ABSORBER - RIGHT	1	ACXG70-12970	←	←	
	52	C.C.CASE	1	ACXG50-58840	←	←	
	53	MODEL LABEL	2	ACXF87-10030	ACXF87-10040	ACXF87-10050	

SAFETY	REF. NO.	PART NAME & DESCRIPTION	QTY.	CS-HZ25ZKE	CS-HZ35ZKE	CS-HZ25ZKE-5	REMARK
	54	PARTICULAR PLATE -LOCK	3	ACXD93-18690	←	←	
	55	BOX SHAPED PLATE	1	ACXD66-03420	←	←	

(NOTE)

- All parts are supplied from PAPAMY, Malaysia (Vendor Code: 00029488).
- “O” marked parts are recommended to be kept in stock.

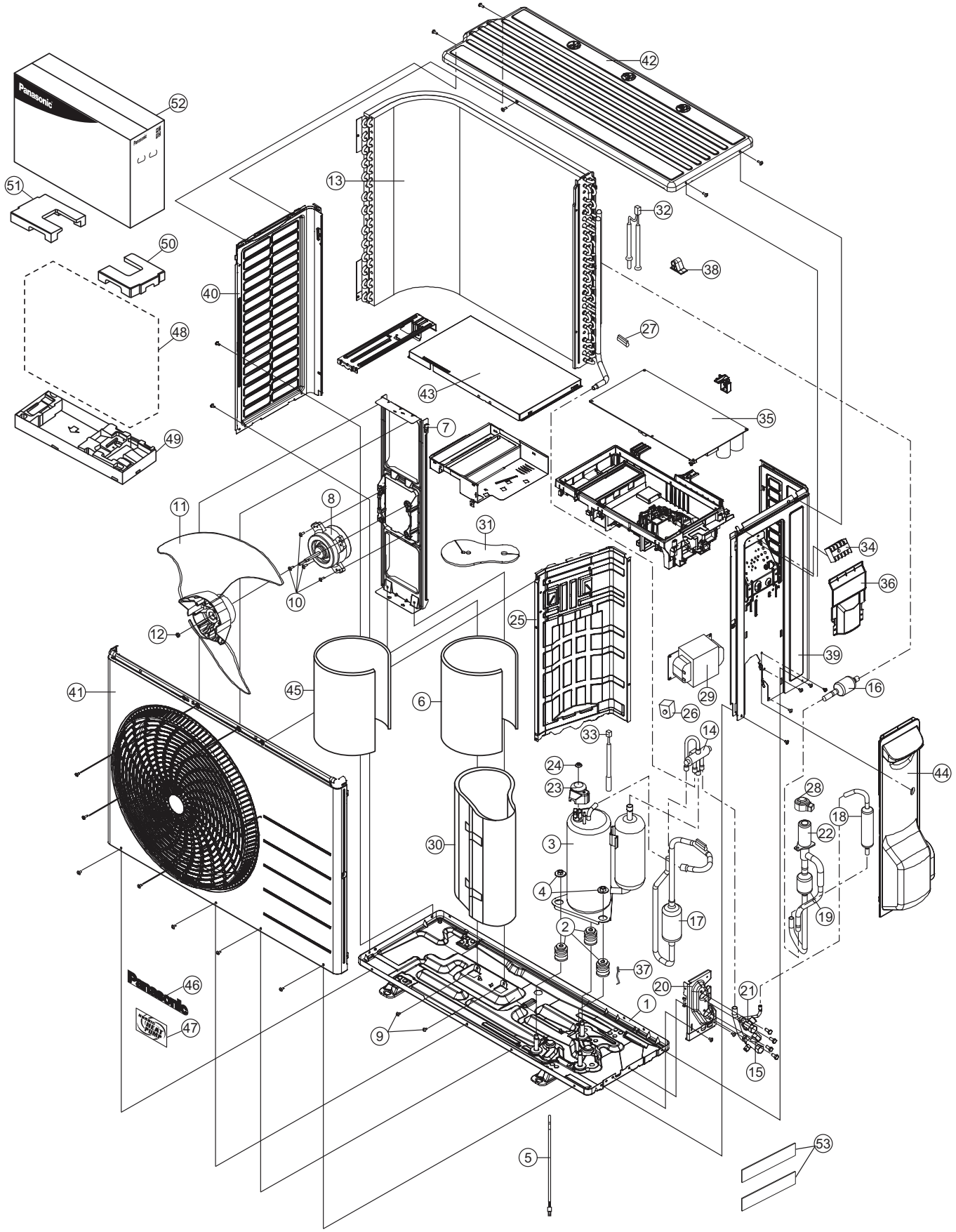
SAFETY	REF. NO.	PART NAME & DESCRIPTION	QTY.	CS-HZ25ZKE-H	CS-HZ35ZKE-H	CS-HZ25ZKE-5-H	REMARK
	1	CHASSIS COMPLETE	1	ACXD50C04190	←	←	
⚠	2	FAN MOTOR	1	L6CBYYYL0474	←	←	O
	3	FAN MOTOR BRACKET	1	ACXD54-04360	←	←	
	4	CROSS-FLOW FAN COMPLETE	1	ACXH02C01480	←	←	
	5	BEARING ASSY	1	CWH64K1006	←	←	
	7	EVAPORATOR CO.	1	ACXB30C34580	←	←	O
	8	FLARE NUT (LIQUID)	1	CWT251030	←	←	
	9	FLARE NUT (GAS)	1	CWT251031	←	←	
	10	CONTROL BOARD CASING	1	ACXH10-08620	←	←	
⚠	11	TERMINAL BOARD COMPLETE	1	ACXA28C06560	←	←	O
⚠	12	ELECTRONIC CONTROLLER - MAIN	1	ACXA73C91730	ACXA73C91740	ACXA73C91730	O
⚠	13	ELECTRONIC CONTROLLER-INDICATOR	1	ACXA73-40520	←	←	O
	14	INDICATOR HOLDER	1	ACXD93-22430	←	←	
⚠	15	SENSOR COMPLETE	1	CWA50C2122	←	←	O
⚠	16	GENERATOR COMPLETE	1	ACXH94C01760	←	←	O
⚠	17	ELECTRONIC CONTROLLER -WIFI	1	ACXA73-45970	←	←	O
	18	CONTROL BOARD TOP COVER	1	ACXH13-08680	←	←	
	19	DISCHARGE GRILLE COMPLETE	1	ACXE20C07700	←	←	
	20	BACK COVER CHASSIS	1	ACXD93-22420	←	←	
	21	FULCRUM	1	ACXH62-00790	←	←	
	22	VERTICAL VANE	10	ACXE24-04000	←	←	
	23	CONNECTING BAR	1	ACXE26-02550	←	←	
⚠	24	AIR SWING MOTOR ASSY	1	ACXA98K00220	←	←	O
⚠	25	AIR SWING MOTOR	1	ACXA98-02420	←	←	O
	26	GEAR-COMPLETE	1	ACXH68C00520	←	←	
	27	CAP - DRAIN TRAY	1	CWH521259	←	←	
	28	HORIZONTAL VANE COMPLETE - BIG	1	ACXE24C05190	←	←	
	29	HORIZONTAL VANE COMPLETE	1	ACXE24C05200	←	←	
⚠	30	REMOTE CONTROL COMPLETE	1	ACXA75C24620	←	←	O
	31	FRONT GRILLE COMPLETE	1	ACXE10C16790	←	←	O
	32	INTAKE GRILLE COMPLETE	1	ACXE22K10460	←	←	
	33	GRILLE DOOR COMPLETE	1	ACXE14C01430	←	←	
	35	AIR FILTER	2	ACXD00-02990	←	←	
	36	SCREW - FRONT GRILLE	6	XTT4+16CFJ	←	←	
	37	CAP - FRONT GRILLE	3	ACXH52-04000B	←	←	
	38	DRAIN HOSE	1	ACXH85-00211	←	←	
	39	INSTALLATION PLATE	1	ACXH36-00840	←	←	
	40	BAG COMPLETE - INSTALLATION SCREW	1	CWH82C1705	←	←	
	41	OPERATING INSTRUCTION	1	ACXF55-36760	←	←	
	42	INSTALLATION INSTRUCTION	1	ACXF60-52500	←	←	
	43	INSTALLATION INSTRUCTION	1	ACXF60-52510	←	←	
	44	INSTALLATION INSTRUCTION	1	ACXF60-52520	←	←	
	45	INSTALLATION INSTRUCTION	1	ACXF60-52530	←	←	
	46	INSTALLATION INSTRUCTION	1	ACXF60-52540	←	←	
	47	INSTALLATION INSTRUCTION	1	ACXF60-52550	←	←	
	48	INSTALLATION INSTRUCTION	1	ACXF60-52560	←	←	
	48A	INSTALLATION INSTRUCTION	1	ACXF60-52570	←	←	
	49	BAG	1	CWG861497	←	←	
	50	SHOCK ABSORBER - LEFT	1	ACXG70-12960	←	←	
	51	SHOCK ABSORBER - RIGHT	1	ACXG70-12970	←	←	
	52	C.C.CASE	1	ACXG50-58840	←	←	
	53	MODEL LABEL	2	ACXF87-10060	ACXF87-10070	ACXF87-10080	

SAFETY	REF. NO.	PART NAME & DESCRIPTION	QTY.	CS-HZ25ZKE-H	CS-HZ35ZKE-H	CS-HZ25ZKE-5-H	REMARK
	54	PARTICULAR PLATE -LOCK	3	ACXD93-18690A	←	←	
	55	BOX SHAPED PLATE	1	ACXD66-03420	←	←	
	56	PARTICULAR PLATE ASS'Y	1	ACXD90K02390	←	←	

(NOTE)

- All parts are supplied from PAPAMY, Malaysia (Vendor Code: 00029488).
- “O” marked parts are recommended to be kept in stock.

21.2 Outdoor Unit



Note
The above exploded view is for the purpose of parts disassembly and replacement.
The non-numbered parts are not kept as standard service parts.

SAFETY	REF. NO.	PART NAME & DESCRIPTION	QTY.	CU-HZ25ZKE	CU-HZ35ZKE	CU-HZ25ZKE-5	REMARK
	1	CHASSY ASS'Y	1	CWD52K1359	←	←	
	2	ANTI-VIBRATION BUSHING	3	CWH50077	←	←	
⚠	3	COMPRESSOR	1	9RD132XGB21	←	←	O
	4	NUT-COMPRESSOR MOUNT	3	CWH561096	←	←	
	5	BASE PAN HEATER	1	CWA341072	←	←	
	6	SOUND PROOF MATERIAL	1	ACXG30-11430	←	←	
	7	BRACKET FAN MOTOR	1	CWD541167	←	←	
⚠	8	FAN MOTOR,DC 40W 3PH	1	L6CAYYYL0180	←	←	O
	9	SCREW-FAN MOTOR BRACKET	2	ACXH55-07140	←	←	
	10	SCREW-FAN MOTOR MOUNT	4	CWH55252J	←	←	
	11	PROPELLER FAN ASSY	1	CWH03K1066	←	←	
	12	NUT-PROPELLER FAN	1	CWH56053J	←	←	
	13	CONDENSER COMPLETE	1	ACXB32C26160	←	ACXB32C27900	O
	14	4-WAYS VALVE	1	ACXB00-01290	←	←	O
	15	3-WAYS VALVE	1	CWB011374	←	←	O
	16	STRAINER	1	CWB11094	←	←	
	17	DISCHARGE MUFFLER	1	ACXB12-00650	←	←	
	18	DISCHARGE MUFFLER	1	CWB121021	←	←	
	19	STRAINER	1	ACXB11-01560	←	←	
	20	HOLDER-COUPLING	1	CWH351233	←	←	
	21	2-WAYS VALVE	1	CWB021180J	←	←	O
	22	EXPANSION VALVE	1	ACXB05-00400	←	←	O
	23	TERMINAL COVER	1	CWH171039A	←	←	
	24	NUT-TERMINAL COVER	1	CWH7080300J	←	←	
	25	SOUND-PROOF BOARD	1	CWH151273	←	←	
⚠	26	V-COIL CO.(FOR 4 WAY VALVE)	1	ACXA43C00250	←	←	O
	27	HOLDER-SENSOR	1	CWH32075	←	←	
⚠	28	V-COIL CO.(FOR EXP VALVE)	1	ACXA43C01520	←	←	O
⚠	29	REACTOR	1	G0C392J00039	←	←	O
	30	SOUND PROOF MATERIAL (COMP.BODY)	1	ACXG30-11950	←	←	
	31	SOUND PROOF MATERIAL (COMP.TOP)	1	CWG302656	←	←	
⚠	32	SENSOR-CO.(AIR & PIPE TEMP)	1	CWA50C3079	←	←	O
⚠	33	SENSOR-CO.(COMP TEMP)	1	ACXA50C17680	←	←	O
⚠	34	TERMINAL BOARD ASS'Y	1	CWA28K1110J	←	←	O
⚠	35	ELECTRONIC CONTROLLER-MAIN	1	ACXA73C96560R	ACXA73C96570R	ACXA73C96560R	O
	36	PLATE-C.B.COVER	1	CWH131470	←	←	
	37	HOLDER-SENSOR	1	CWH32143	←	←	
	38	HOLDER-SENSOR	1	CWH321113	←	←	
	39	CABINET SIDE PLATE CO.	1	ACXE04C05240	←	←	
	40	CABINET SIDE PLATE(L)	1	ACXE04-13070A	←	←	
	41	CABINET FRONT PLATE-CO.	1	ACXE06C02890	←	←	
	42	CABINET TOP PLATE	1	ACXE03-04830A	←	←	
	43	CONTROL BOARD COVER	1	CWH131473	←	←	
	44	CONTROL BOARD COVER-COMPLETE	1	ACXH13C02860	←	←	
	45	SOUND PROOF MATERIAL	1	CWG302745	←	←	
	46	PANASONIC BADGE	1	CWE373439	←	←	
	47	NORDIC HEATPUMP LABEL	1	CWE373985	←	←	
	48	BAG	1	ACXG86-03760	←	←	
	49	BASE BOARD-COMPLETE	1	CWG62C1162	←	←	
	50	SHOCK ABSORBER (RIGHT)	1	CWG713415	←	←	
	51	SHOCK ABSORBER (LEFT)	1	CWG713416	←	←	

SAFETY	REF. NO.	PART NAME & DESCRIPTION	QTY.	CU-HZ25ZKE	CU-HZ35ZKE	CU-HZ25ZKE-5	REMARK
	52	C.C.CASE	1	ACXG50-48903	←	←	
	53	MODEL LABEL	2	ACXF87-10130	ACXF87-10140	ACXF87-10150	

(Note)

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