

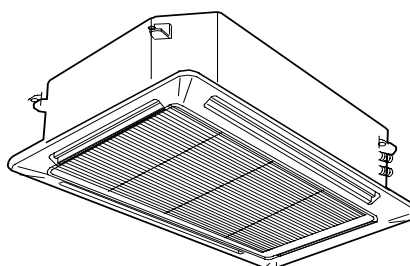
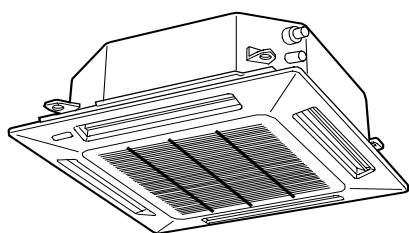
TECHNICAL DATA & SERVICE MANUAL



INDOOR UNIT: ASR525CL
ASR536CL
ASR548CL

SPLIT SYSTEM AIR CONDITIONER

Model No.	Product Code No.
ASR525CL	387006100
ASR536CL	387006101
ASR548CL	387006102



IMPORTANT! Please read before installation

This air conditioning system meets strict safety and operating standards.

For the installer or service person, it is important to install or service the system so that it operates safely and efficiently.

For safe installation and trouble-free operation, you must:

- Carefully read this instruction booklet before beginning.
- Follow each installation or repair step exactly as shown.
- Observe all local, state and national electrical codes.
- Pay close attention to all warning and caution notices given in this manual.
- The unit must be supplied with a dedicated electrical line.



WARNING

This symbol refers to a hazard or unsafe practice which can result in severe personal injury or death.



CAUTION

This symbol refers to a hazard or unsafe practice which can result in personal injury or product or property damage.

If necessary, get help

These instructions are all you need for most installation sites and maintenance conditions.

If you require help for a special problem, contact our sale/service outlet or your certified dealer for additional instructions.

In case of improper installation

The manufacturer shall in no way be responsible for improper installation or maintenance service, including failure to follow the instructions in this document.

SPECIAL PRECAUTIONS

- During installation, connect before the refrigerant system and then the wiring one; proceed in the reverse order when removing the units.

WARNING

When wiring



ELECTRICAL SHOCK CAN CAUSE SEVERE PERSONAL INJURY OR DEATH. ONLY QUALIFIED, EXPERIENCED ELECTRICIANS SHOULD ATTEMPT TO WIRE THIS SYSTEM.

- Do not supply power to the unit until all wiring and tubing are completed or reconnected and checked, to ensure the grounding.
- Highly dangerous electrical voltages are used in this system. Carefully refer to the wiring diagram and these instructions when wiring.
Improper connections and inadequate grounding can cause **accidental injury and death.**

- **Ground the unit** following local electrical codes.
- The Yellow/Green wire cannot be used for any connection different from the ground connection.
- Connect all wiring tightly. Loose wiring may cause overheating at connection points and a possible fire hazard.
- Do not allow wiring to touch the refrigerant tubing, compressor, or any moving parts of the fan.
- Do not use multi-core cable when wiring the power supply and control lines. Use separate cables for each type of line.

When transporting

Be careful when picking up and moving the indoor and outdoor units. Get a partner to help, and bend your knees when lifting to reduce strain on your back. Sharp edges or thin aluminium fins on the air conditioner can cut your fingers.

When installing...

... In a ceiling

Make sure the ceiling is strong enough to hold the unit-weight. It may be necessary to build a strong wooden or metal frame to provide added support.

... In a room

Properly insulate any tubing run inside a room to prevent "sweating", which can cause dripping and water damage to walls and floors.

... In moist or uneven locations

Use a raised concrete base to provide a solid level foundation for the outdoor unit. This prevents damage and abnormal vibrations.

... In area with strong winds

Securely anchor the outdoor unit down with bolts and a metal frame. Provide a suitable air baffle.

... In a snowy area (for heat pump-type systems)

Install the outdoor unit on a raised platform that is higher than drifting snow. Provide snow vents.

When connecting refrigerant tubing

- Keep all tubing runs as short as possible.
- Use the flare method for connecting tubing.
- Apply refrigerant lubricant to the matching surfaces of the flare and union tubes before connecting them; screw by hand and then tighten the nut with a torque wrench for a leak-free connection.
- Check carefully for leaks before starting the test run.

NOTE:

Depending on the system type, liquid and gas lines may be either narrow or wide. Therefore, to avoid confusion, the refrigerant tubing for your particular model is specified as narrow tube for liquid, wide tube for gas.

When servicing

- Turn the power OFF at the main power board before opening the unit to check or repair electrical parts and wiring.
- Keep your fingers and clothing away from any moving parts.
- Clean up the site after the work, remembering to check that no metal scraps or bits of wiring have been left inside the unit being serviced.
- Ventilate the room during the installation or testing the refrigeration system; make sure that, after the installation, no gas leaks are present, because this could produce toxic gas and dangerous if in contact with flames or heat-sources.

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1. SPECIFICATIONS

1-1 Unit Specifications

ASR525CL

Power source	220 - 240V ~ 50Hz
---------------------	-------------------

Voltage rating	230V
-----------------------	------

Performance	Cooling	
Capacity	See catalogue with the requested matching	
Air circulation (High/Med./Low)	m ³ /h	1140/1020/840

Features			
Controls/Temperature controls		Microprocessor/ I.C. thermostat	
Remote Controller		Wireless remote control unit	
Timer		ON/OFF 24 hours & Daily program, 1-hour OFF	
Fan speed		3 and Auto	
Airflow direction		Auto (Remote control)	
Air Filter		Washable, easy acces, long life (2500 hr.)	
Operation sound	High/Med./Low	dB-A	37/35/31
Refrigerant tubing connections		Flare type	
Refrigerant tube diameter	Narrow tube	mm(in.)	6,35 (1/4)
	Wide tube	mm(in.)	15,88 (5/8)
Refrigerant		R407C	
Refrigerant control		Capillary tube	

Dimensions & Weight				
Dimensions (include panel)		Height	mm	338
		Width	mm	860
		Depth	mm	860
Package dimensions	Unit	Height	mm	320
		Width	mm	880
		Depth	mm	840
		Volume	m ³	0,238
Ceiling panel		Height	mm	110
		Width	mm	965
		Depth	mm	965
		Volume	m ³	0,1
Weight (include panel)		Net	kg	22
		Shipping	kg	26
Ceiling panel		Net	kg	6
		Shipping	kg	8

DATA SUBJECT TO CHANGE WITHOUT NOTICE

ASR536CL

Power source	220 - 240V ~ 50Hz
---------------------	-------------------

Voltage rating	230V
-----------------------	------

Performance	Cooling
Capacity	See catalogue with the requested matching
Air circulation (High/Med./Low) m ³ /h	1920/1680/1320

Features			
Controls/Temperature controls		Microprocessor/ I.C. thermostat	
Remote Controller		Wireless remote control unit	
Timer		ON/OFF 24 hours & Daily program, 1-hour OFF	
Fan speed		3 and Auto	
Airflow direction		Auto (Remote control)	
Air Filter		Washable, easy acces, long life (2500 hr.)	
Operation sound	High/Med./Low	dB-A	42/39/35
Refrigerant tubing connections		Flare type	
Refrigerant tube diameter	Narrow tube	mm(in.)	9,52 (3/8)
	Wide tube	mm(in.)	19,05 (3/4)
Refrigerant		R407C	
Refrigerant control		Capillary tube	

Dimensions & Weight				
Dimensions (include panel)		Height	mm	368
		Width	mm	1150
		Depth	mm	860
Package dimensions	Unit	Height	mm	350
		Width	mm	1170
		Depth	mm	840
		Volume	m ³	0,35
		Ceiling panel	Height	mm
Width	mm		1250	
Depth	mm		965	
Volume	m ³		0,131	
Weight (include panel)		Net	kg	27
		Shipping	kg	32
Ceiling panel		Net	kg	8
		Shipping	kg	10

DATA SUBJECT TO CHANGE WITHOUT NOTICE

ASR548CL

Power source	220 - 240V ~ 50Hz
---------------------	-------------------

Voltage rating	230V
-----------------------	------

Performance	Cooling
Capacity	See catalogue with the requested matching
Air circulation (High/Med./Low) m ³ /h	1920/1680/1320

Features			
Controls/Temperature controls		Microprocessor/ I.C. thermostat	
Remote Controller		Wireless remote control unit	
Timer		ON/OFF 24 hours & Daily program, 1-hour OFF	
Fan speed		3 and Auto	
Airflow direction		Auto (Remote control)	
Air Filter		Washable, easy acces, long life (2500 hr.)	
Operation sound	High/Med./Low	dB-A	42/39/35
Refrigerant tubing connections		Flare type	
Refrigerant tube diameter	Narrow tube	mm(in.)	9,52 (3/8)
	Wide tube	mm(in.)	19,05 (3/4)
Refrigerant		R407C	
Refrigerant control		Capillary tube	

Dimensions & Weight				
Dimensions (include panel)		Height	mm	368
		Width	mm	1150
		Depth	mm	860
Package dimensions	Unit	Height	mm	350
		Width	mm	1170
		Depth	mm	840
		Volume	m ³	0,35
		Ceiling panel		Height
		Width	mm	1250
		Depth	mm	965
		Volume	m ³	0,131
Weight (include panel)		Net	kg	27
		Shipping	kg	32
Ceiling panel		Net	kg	8
		Shipping	kg	10

DATA SUBJECT TO CHANGE WITHOUT NOTICE

1-2 Major Component Specifications

ASR525CL

Controller PCB		
Part No.		CR-XR254GS
Controls		Microprocessor

Fan & Fan Motor		
Type		Centrifugal fan
Q'ty Diameter	mm	1.... Ø 443
Fan motor model...Q'ty		SFG6X-41D6P...1
No. Of poles...rpm (230 V, High)		6 ... 470
Running Amps	A	0,611
Power input	W	31,4
Coil resistance (Ambient temp. 20 °C)	Ω	BRN-WHT: 170,3 WHT-VLT: 18,1 VLT-ORG: 43,2 ORG-YEL: 43,2 WHT-PNK: 83,5 YEL-BLK: 60,2
Safety devices	Type	Internal thermal protector
	Operating temp. Open	°C 130 ± 8
	Close	°C 79 ± 15
Run capacitor	μF	4,5
	VAC	440

Panel		
Model		ASG25SCE
Flap motor		M2LB24ZA12
	rating	240 VAC
	rpm	2,5
	nominal output	W 3
	coil resistance (25°C)	kΩ 15,62 ± 15%
Dew proof heater		240 V, 26W

Heat Exch. Coil		
Coil		Aluminium plate fin / Copper tube
Rows		2
Fin pitch	mm	1,5
face area	m2	0,343

DATA SUBJECT TO CHANGE WITHOUT NOTICE

ASR536CL

Controller PCB		
Part No.		CR-XR254GS
Controls		Microprocessor

Fan & Fan Motor		
Type		Centrifugal fan
Q'ty Diameter	mm	1.... Ø 443
Fan motor model...Q'ty		SFG6X-81A6P...1
No. Of poles...rpm (230 V, High)		6 ... 530
Running Amps	A	0,765
Power input	W	38
Coil resistance (Ambient temp. 20 °C)	Ω	BRN-WHT: 75,1 WHT-VLT: 6,7 VLT-ORG: 20,6 ORG-YEL: 27,4 WHT-PNK: 42,7 YEL-BLK: 58
Safety devices	Type	Internal thermal protector
	Operating temp. Open	°C 130 ± 8
	Close	°C 79 ± 15
Run capacitor	μF	5
	VAC	440

Panel		
Model		ASG3648E
Flap motor		M2LB24ZA12
	rating	240 VAC
	rpm	2,5
	nominal output	W 3
	coil resistance (25°C)	kΩ 15,62 ± 15%
Dew proof heater		240 V, 26W

Heat Exch. Coil		
Coil		Aluminium plate fin / Copper tube
Rows		2
Fin pitch	mm	1,5
face area	m2	0,556

DATA SUBJECT TO CHANGE WITHOUT NOTICE

ASR548CL

Controller PCB	
Part No.	CR-XR254GS
Controls	Microprocessor

Fan & Fan Motor	
Type	Centrifugal fan
Q'ty Diameter	1.... Ø 443
Fan motor model...Q'ty	SFG6X-81A6P...1
No. Of poles...rpm (230 V, High)	6 ... 530
Running Amps	0,871
Power input	51,9
Coil resistance (Ambient temp. 20 °C)	BRN-WHT: 75,1 WHT-VLT: 6,7 VLT-ORG: 20,6 ORG-YEL: 27,4 WHT-PNK: 42,7 YEL-BLK: 58
Safety devices	Internal thermal protector
Type	
Operating temp. Open	°C 130 ± 8
Close	°C 79 ± 15
Run capacitor	6
	VAC 440

Panel	
Model	ASG3648E
Flap motor	M2LB24ZA12
rating	240 VAC
rpm	2,5
nominal output	W 3
coil resistance (25°C)	kΩ 15,62 ± 15%
Dew proof heater	240 V, 26W

Heat Exch. Coil	
Coil	Aluminium plate fin / Copper tube
Rows	2
Fin pitch	mm 1,5
face area	m2 0,556

DATA SUBJECT TO CHANGE WITHOUT NOTICE

1-3 Other Component Specifications

Trasformer		ATR-II215TA	
Rating	Primary	VAC 230V, 50Hz	
	Secondary	10,6V - 0.93A	
	Capacity	7 VA	
Coil resistance	Ω	(WHT-WHT): 96,5 (BRN-BRN): 0,8 (at 20°C)	
Thermal cut-off temp.		150°C	

Thermistor (Coil sensor)		PBC-41E-S14	
Resistance	K Ω	-10 °C 23,7 \pm 5% -5 °C 18,8 \pm 5% 0 °C 15,0 \pm 5% 5 °C 12,1 \pm 5% 10 °C 9,7 \pm 5% 15 °C 8,0 \pm 5%	

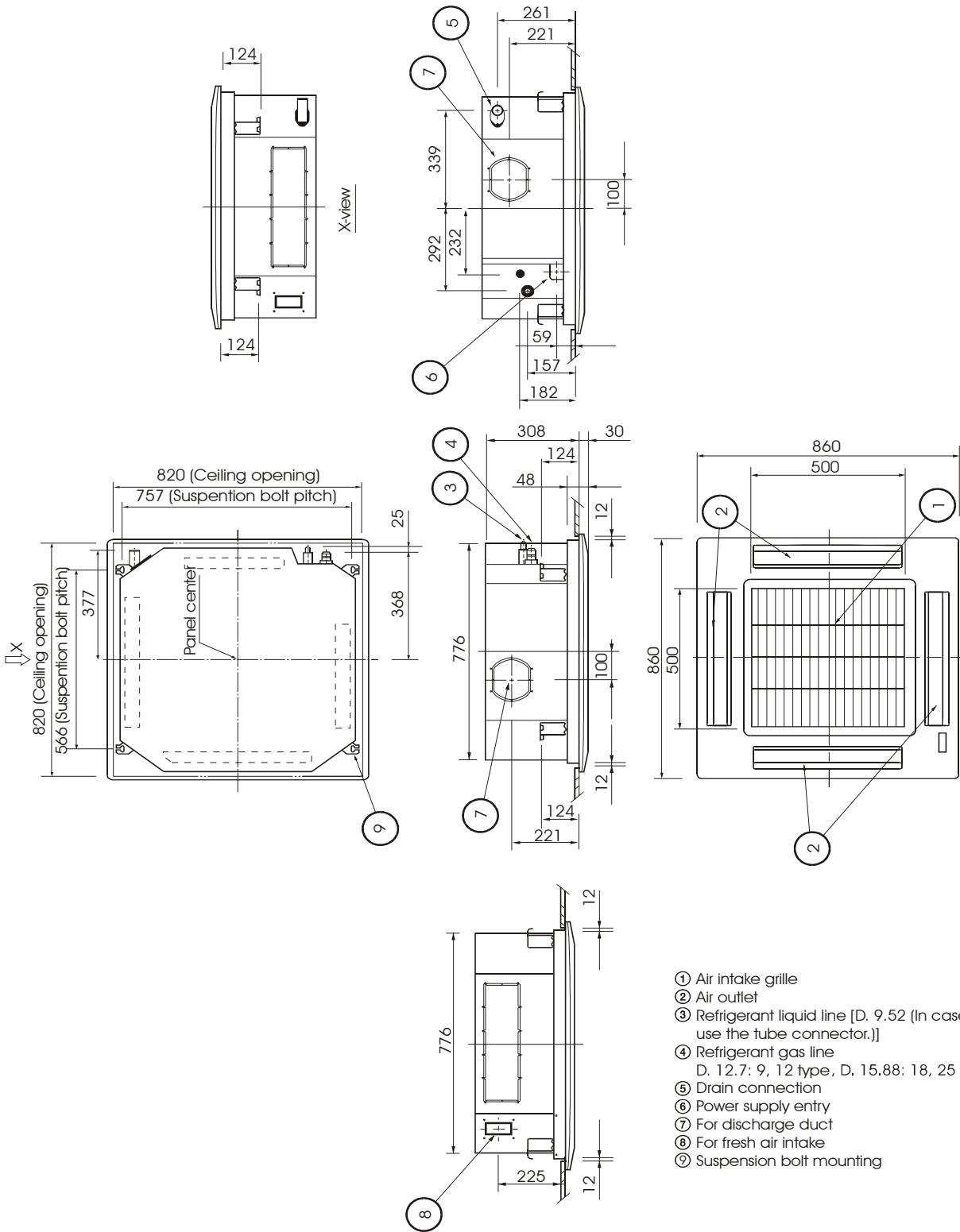
Thermistor (Room sensor TH1)		KTEC-35-S6	
Resistance	K Ω	0 °C 16,5 \pm 5% 5 °C 12,8 \pm 5% 10 °C 10,0 \pm 5% 20 °C 6,3 \pm 5% 30 °C 4,0 \pm 5% 40 °C 2,7 \pm 5% 45 °C 2,2 \pm 5% 50 °C 1,8 \pm 5% 55 °C 1,5 \pm 5%	

Drain pump			
Model		PJV-1434A	
Rating	Voltage	230V	
	Input	12W	
Total head / capacity		500 mm / 400 cc/min.	

Safety float switch			
Model		FS-0218-102	
Contact rating		DC 5V - 50W	

2. DIMENSIONAL DATA

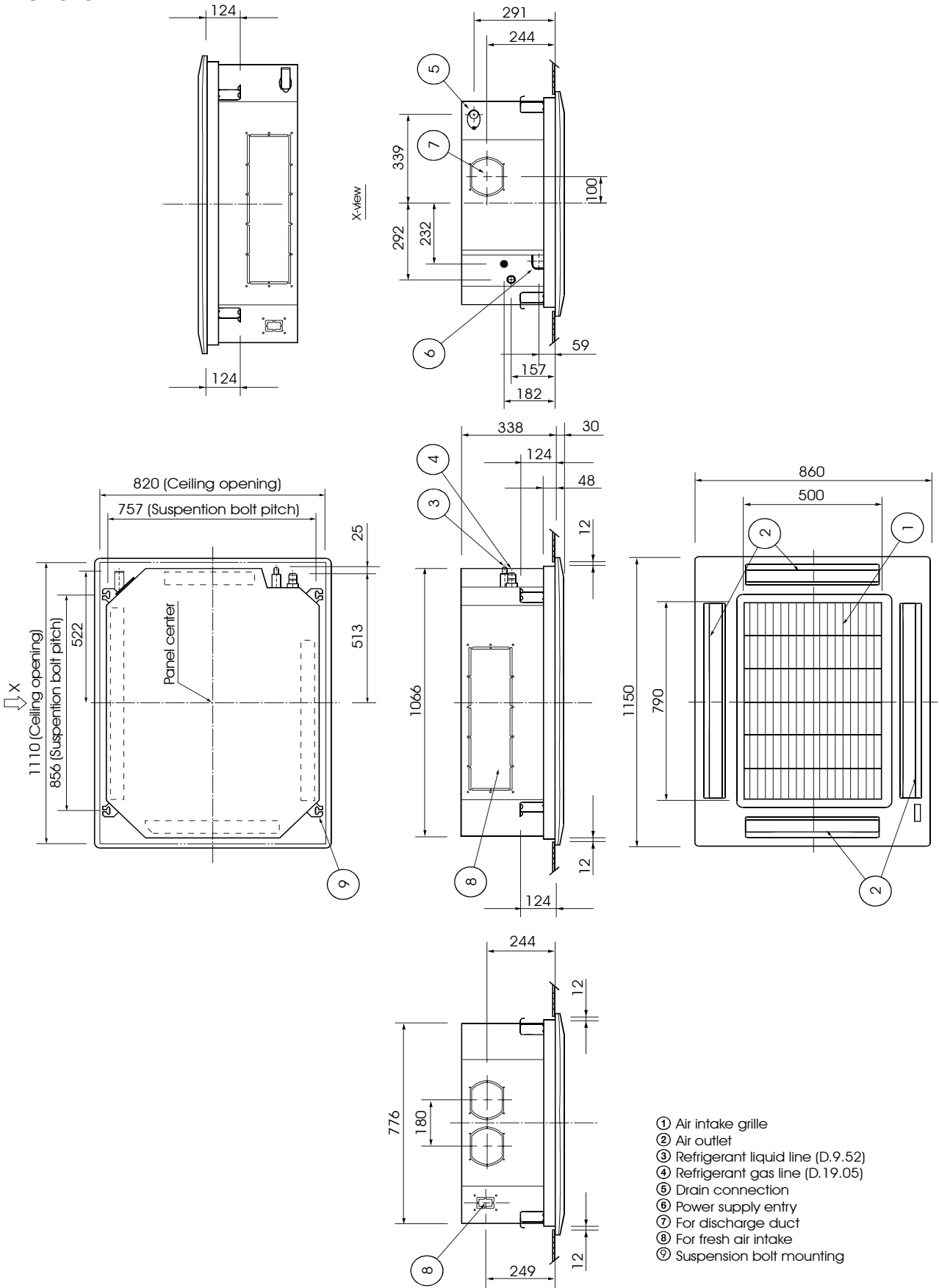
ASR525CL



- ① Air intake grille
- ② Air outlet
- ③ Refrigerant liquid line [D. 9.52 (In case of 25 type use the tube connector.)]
- ④ Refrigerant gas line
D. 12.7: 9, 12 type, D. 15.88: 18, 25 type
- ⑤ Drain connection
- ⑥ Power supply entry
- ⑦ For discharge duct
- ⑧ For fresh air intake
- ⑨ Suspension bolt mounting

Units: mm

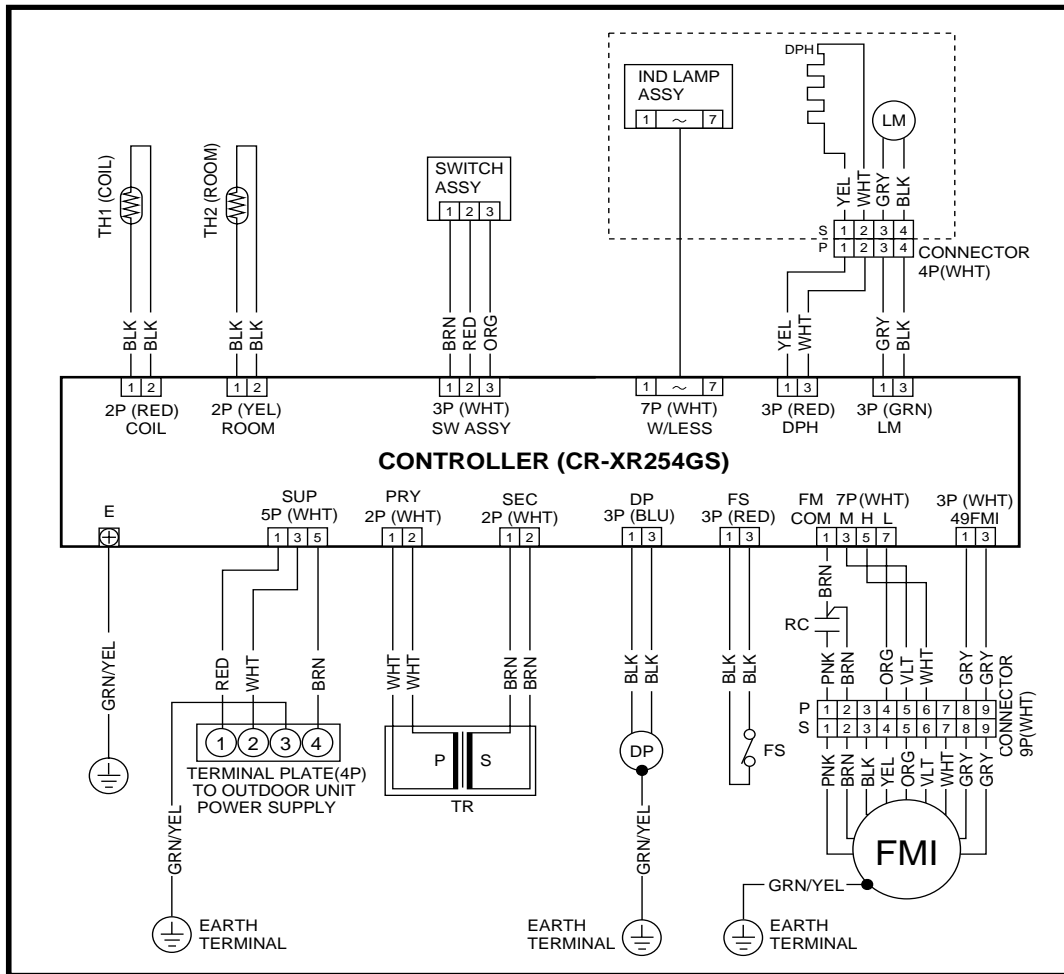
ASR536CL
ASR548CL



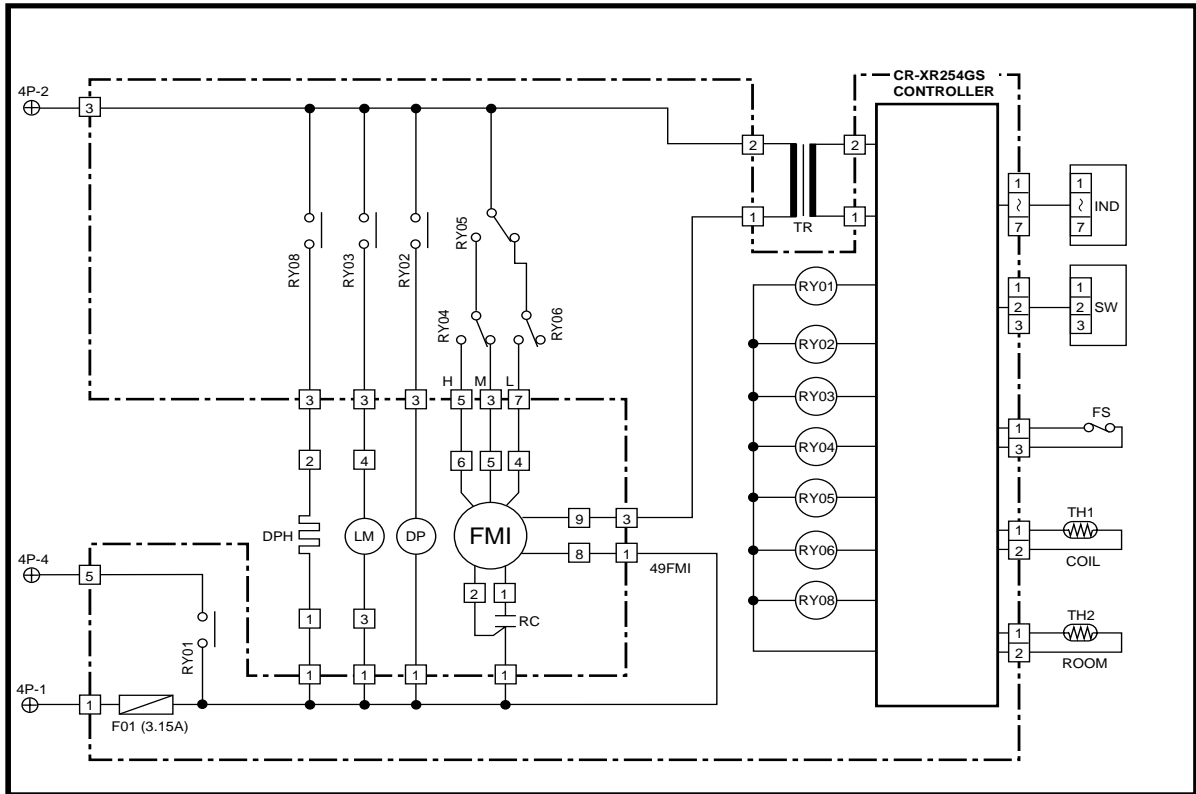
- ① Air intake grille
- ② Air outlet
- ③ Refrigerant liquid line (D.9.52)
- ④ Refrigerant gas line (D.19.05)
- ⑤ Drain connection
- ⑥ Power supply entry
- ⑦ For discharge duct
- ⑧ For fresh air intake
- ⑨ Suspension bolt mounting

3. ELECTRICAL DATA

3-1 Electric Wiring Diagram



3-2 Schematic Diagram



SYMBOLS	DESCRIPTION
FMI	INDOOR FAN MOTOR
49FMI	INDOOR MOTOR THERMAL PROTECTOR
RC	RUNNING CAPACITOR
F01	FUSE
DP	DRAIN PUMP
DPH	DEW PROOF HEATER
LM	AUTO LOUVER MOTOR
TR	POWER TRANSFORMER
RY01-RY06, RY08	AUXILIARY RELAY
FS	FLOAT SWITCH
TH1	THERMISTOR (INDOOR COIL)
TH2	ROOM THERMISTOR
CR-X254GS	INDOOR CONTROLLER
IND	INDICATOR LAMP ASSY
SW	SWITCH ASSY
⊕	TERMINAL PLATE
□	CONNECTOR
⊕	TERMINAL

4. FUNCTIONS

4-1 Room temperature control

Room temperature control is obtained by cycling the compressor ON and OFF under control of the room temperature sensor in the remote control unit.

The room temperature (and other information) is transmitted every 5 minutes by the remote control unit to the controller in the indoor unit.



The control circuit will not attempt to turn the compressor ON until the compressor has been OFF for at least 3 minutes. To protect the compressor from stalling out when trying to start against the high side refrigerant pressure, the control circuit has a built-in automatic time delay to allow the internal pressure to equalize.

As a protective measure, the control circuit switches the compressor OFF not before than 5 minutes of compressor operation.

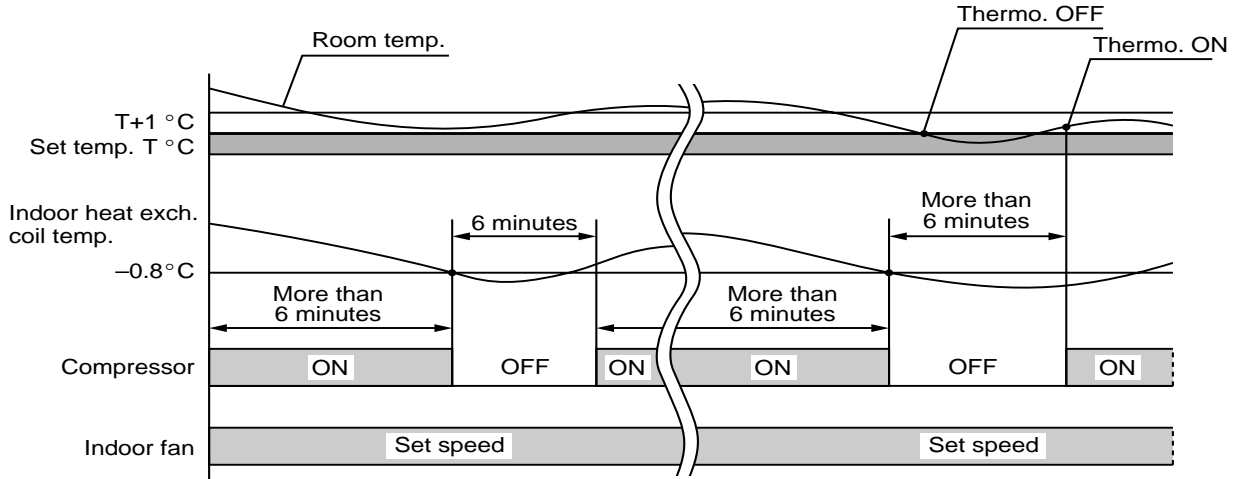
Thermo. ON : When the room temperature is above $T + 1^{\circ}\text{C}$ ($T^{\circ}\text{C}$ is set temperature).
Compressor → ON

Thermo. OFF : When the room temperature is equal to or below set temperature $T^{\circ}\text{C}$.
Compressor → OFF

4-2 Freeze Prevention

This function prevents freezing of the indoor heat exchange coil.

When the compressor has been running for 6 minutes or more and the temperature of the indoor heat exchange coil falls below -0.8°C , the control circuit stops the compressor for at least 3 minutes. The compressor does not start again until the temperature rises above 8°C or 6 minutes has elapsed.



5. TROUBLESHOOTING

(1) Check before and after troubleshooting

Many problems may occur because of wiring or power supply problems, and so you should check these areas first. Problems here can cause incorrect results in some of the other tests, and so they should be remedied first.

1. Check power supply wiring

(a) Single-phase

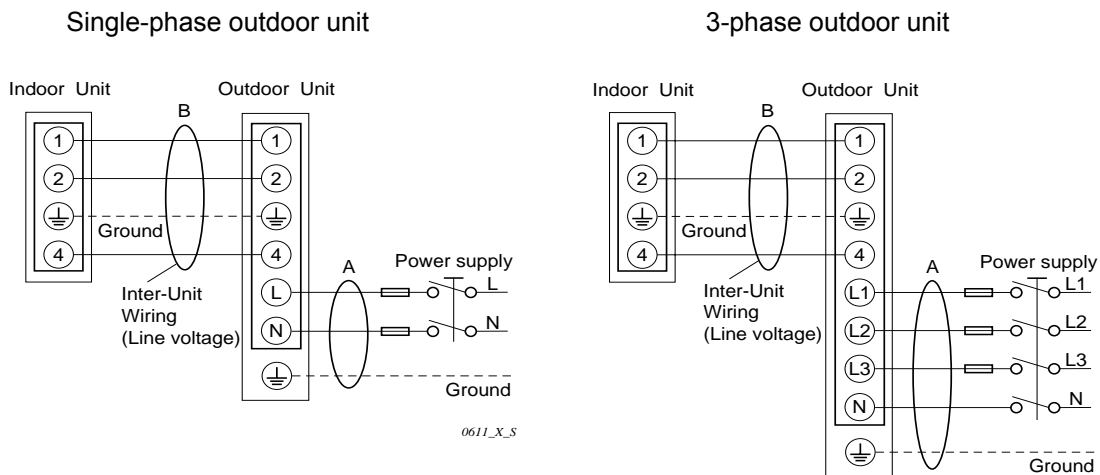
Check that the power supply wires are correctly connected to terminal No. 1 through No. 4 on the 4P terminal plate on the indoor unit and L and N on the 6P terminal on the outdoor unit.

(b) 3-phase

Check that the power supply wires are correctly connected to terminal No.1 through No. 4 on the 4P terminal plate on the indoor unit and L1 through L3 and N on the 8P terminal on the outdoor unit.

2. Check the inter-unit wiring

Check that the inter-unit control wires (AC 220 - 240 V Line voltage) are correctly connected between the indoor unit and outdoor unit.



3. Check the power supply

Check that the voltage is within the specified range ($\pm 10\%$ of the rating).

Check that power is supplied.

WARNING

If the following troubleshooting must be done with the power being supplied, take care not to touch any uninsulated live parts that will give an ELECTRIC SHOCK.

4. Check the lead wires and connectors in indoor and outdoor units.

Check that the sheaths of the lead wires are not damaged.

Check that the lead wires are firmly connected to the terminal plate.

Check that the wiring has been performed correctly.

5. Reference

- Condition of general cooling operation (Thermo. ON)
SWEEP.....ON
Indoor fan speed....HIGH

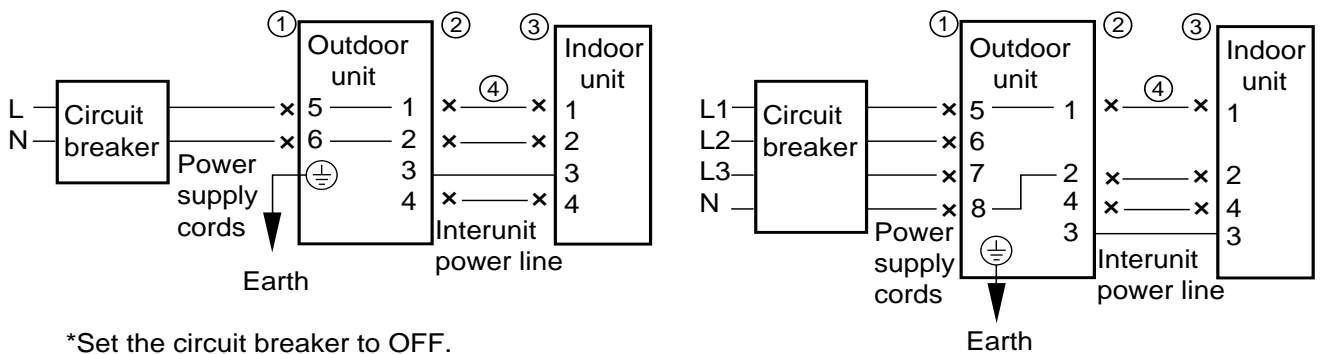
(2) Air conditioner does not operate

1. Circuit breaker trips (or fuse blows).

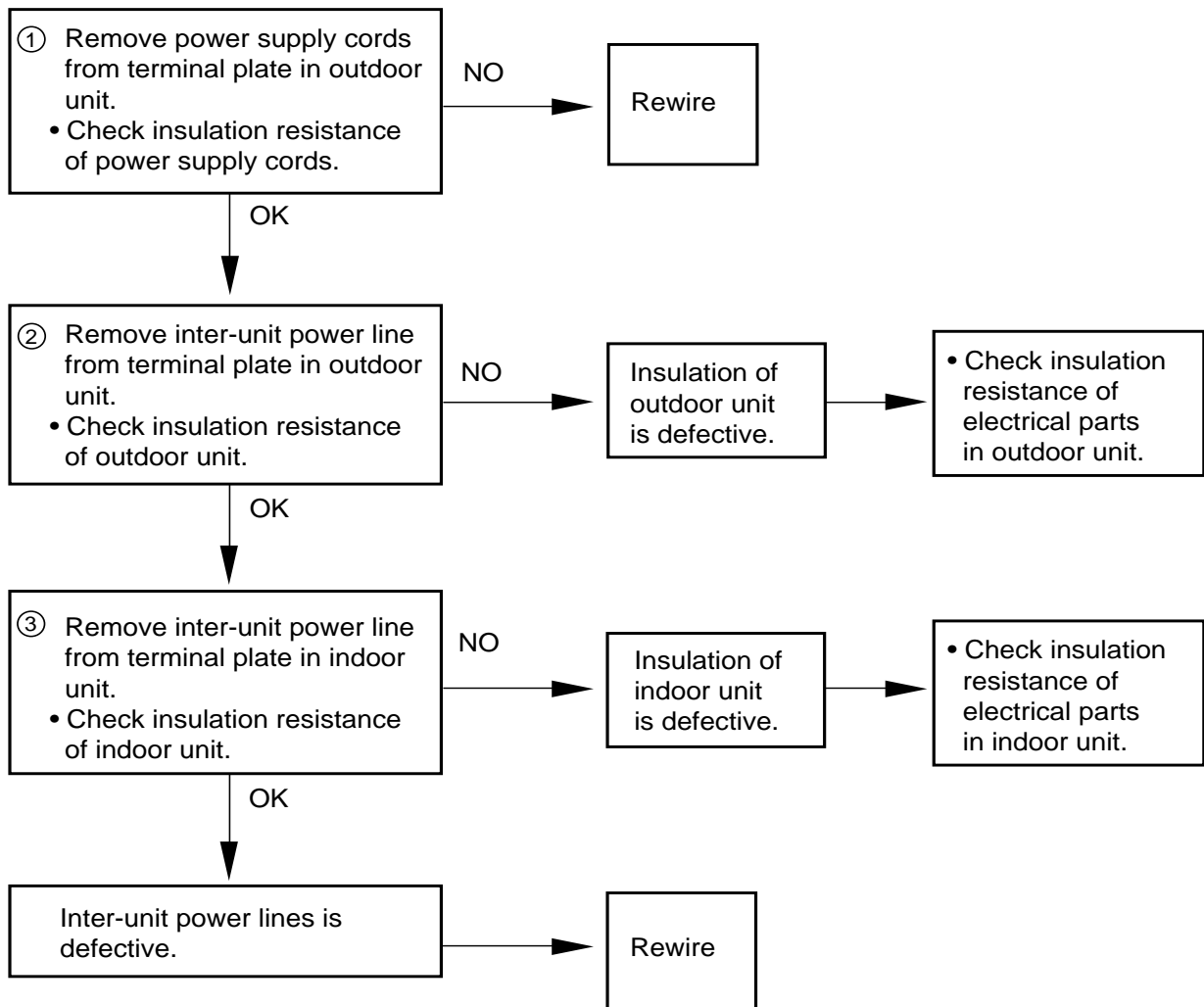
(a) When the circuit breaker is set to ON, it trips immediately.

- There is a possibility of ground fault.
 - Check insulation resistance.
- If the resistance value is $1M\frac{1}{2}$ or less, insulation is defective.

(Example)

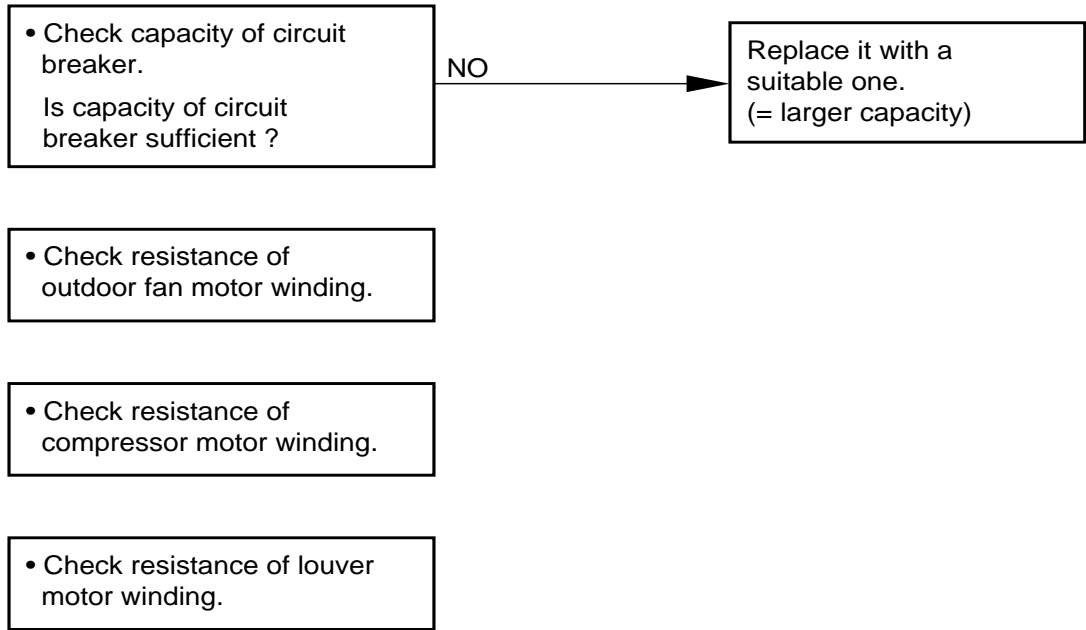


*Set the circuit breaker to OFF.



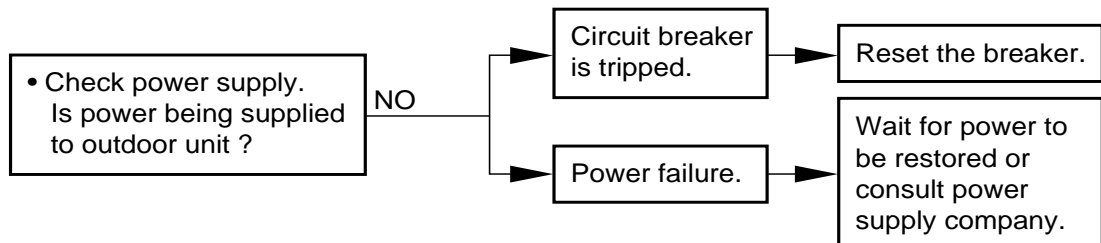
(b) Circuit breaker trips in several minutes after turning the air conditioner on.

- There is a possibility of short circuit.

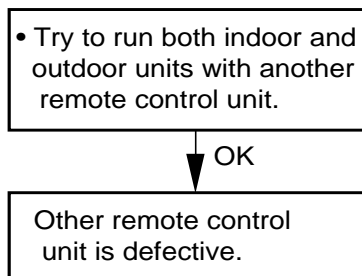


② Neither indoor unit nor outdoor unit runs.

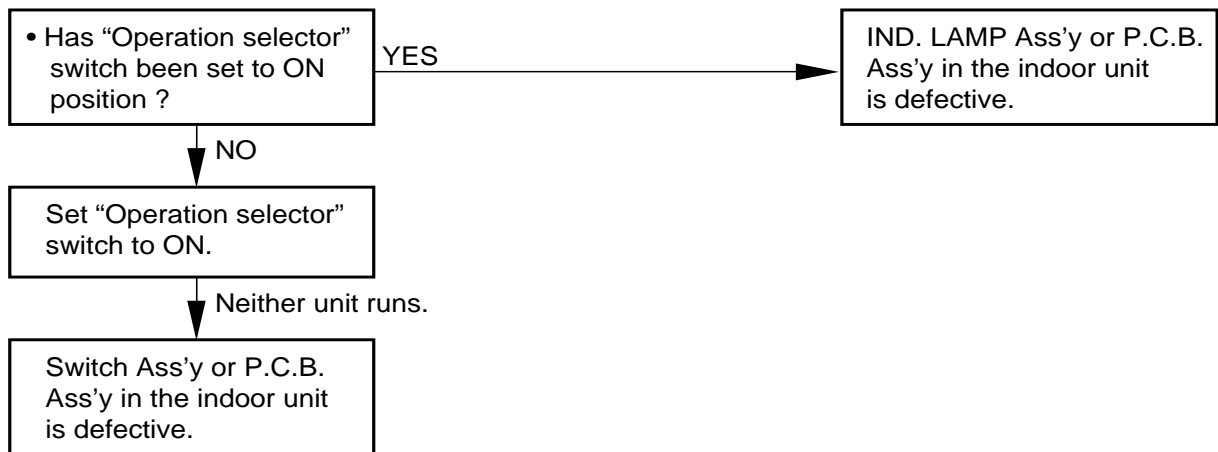
A. No power is supplied



B. Check remote control unit.

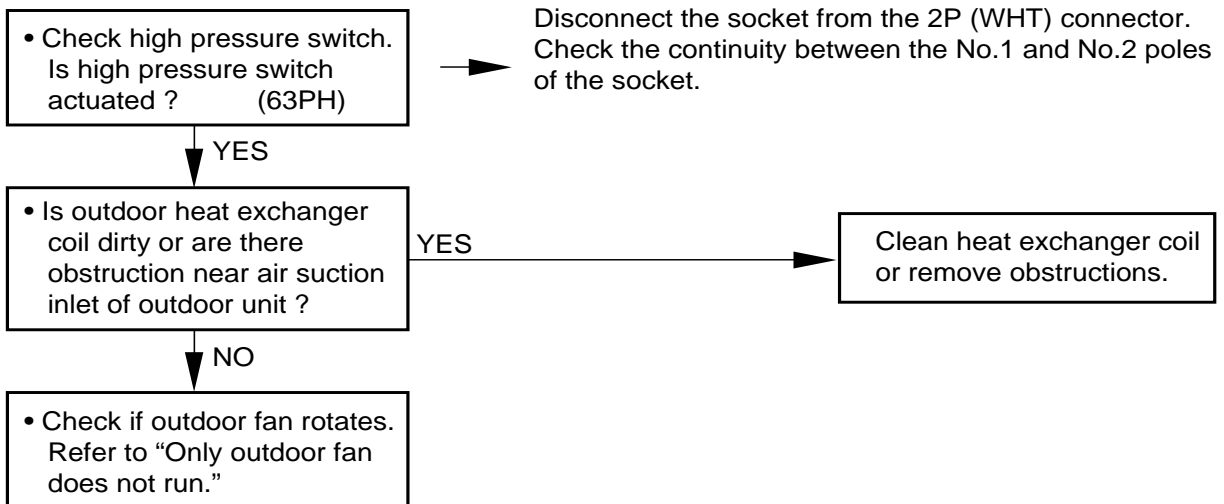


C. Check "Operation selector" switch in the indoor unit.

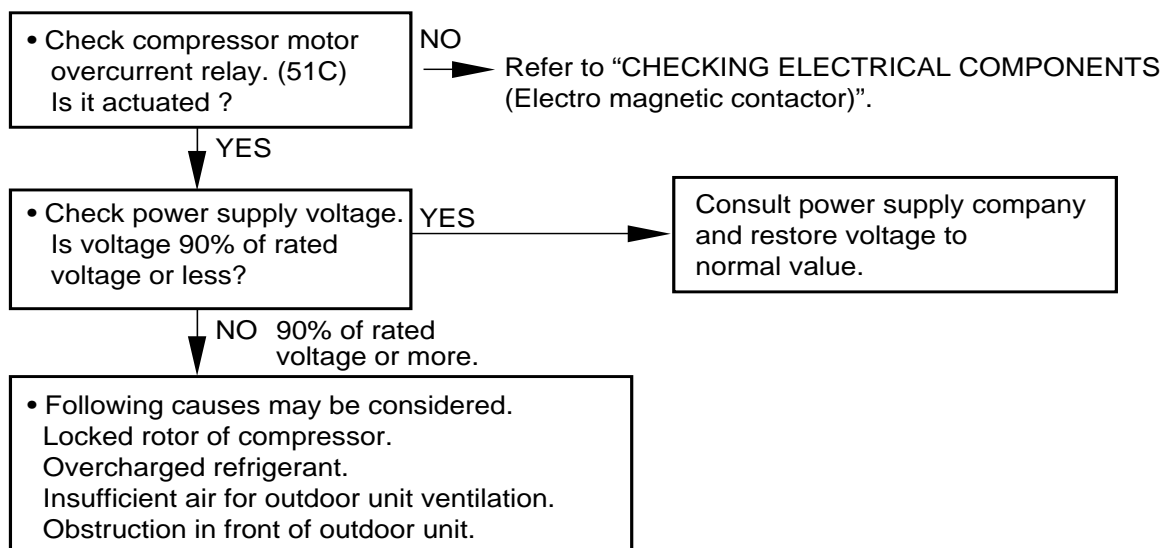


D. Check compressor motor protectors.

a) High pressure switch (63PH)



b) Compressor motor overcurrent relay

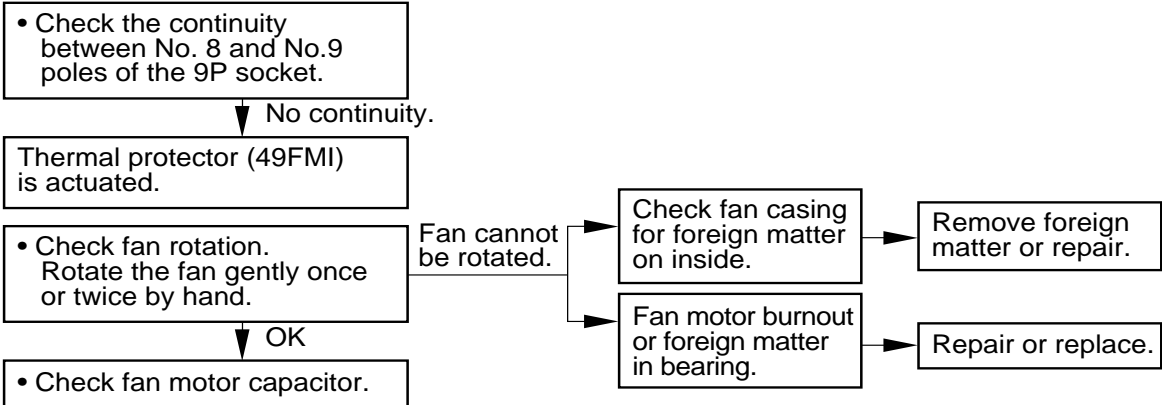


E. Check the auxiliary relay. (1Y or 2Y)

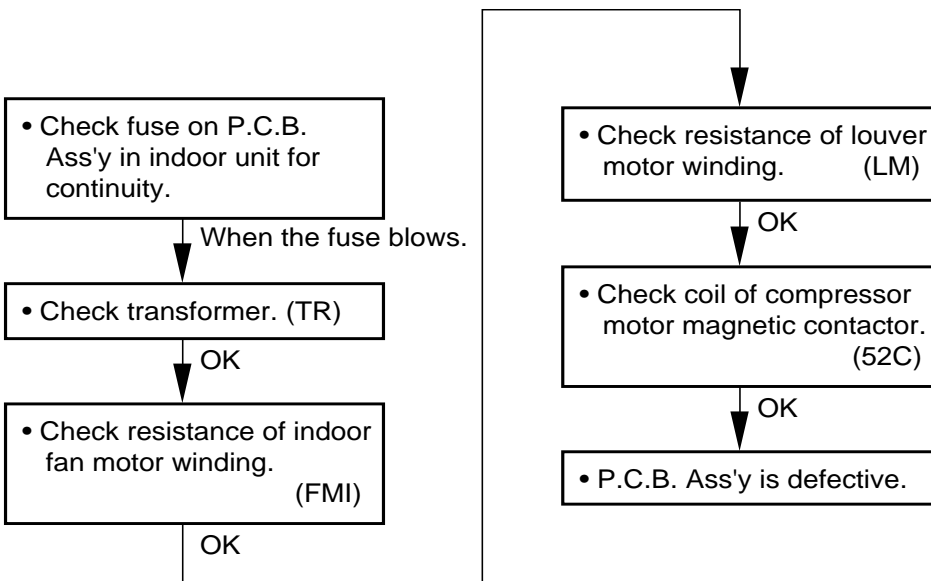
- Check coil resistance of auxiliary relay.
(1Y or 2Y)

F. Check the indoor fan motor thermal protector (49FMI)

- Disconnect the socket from the 9P (WHT) connector.



G. Check the fuse on the P.C.B. Ass'y in the indoor unit.

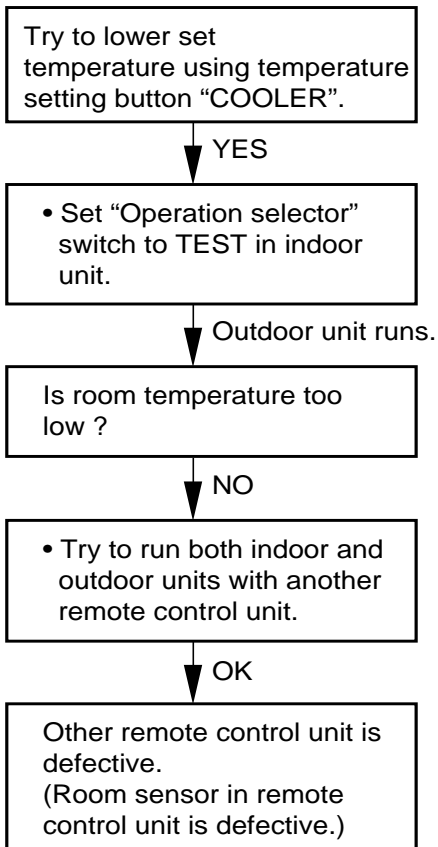


(3) Outdoor unit does not run.

A. Check the COOL/FAN selector switch in the remote control unit.

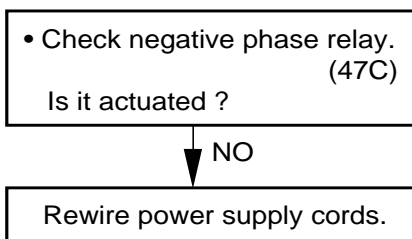


B. Check the set temperature.

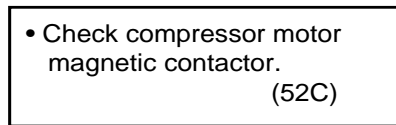
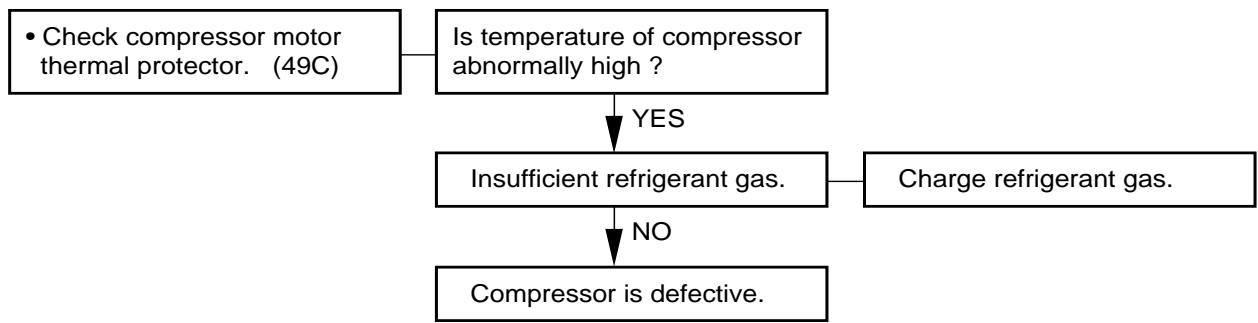


C. Outdoor unit is abnormal.

a) Check the power supply wiring

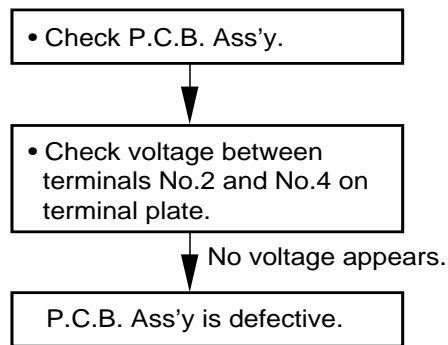


b) Check the compressor motor thermal protector (49C)



(Only the outdoor fan does not run.)

D. Check the indoor unit P.C.B.



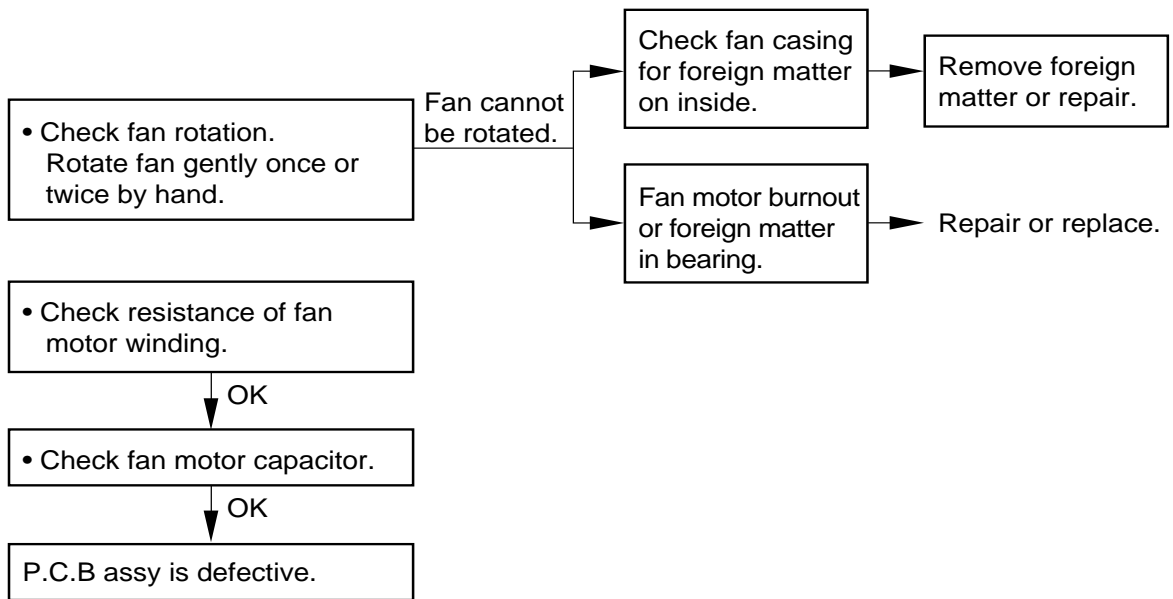
(4) Indoor unit does not run.

The indoor fan and louver motor do not run.

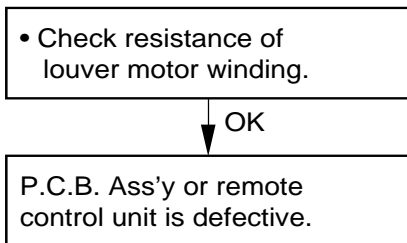
P.C.B. Ass'y is defective.

(5) Some parts fail to operate.

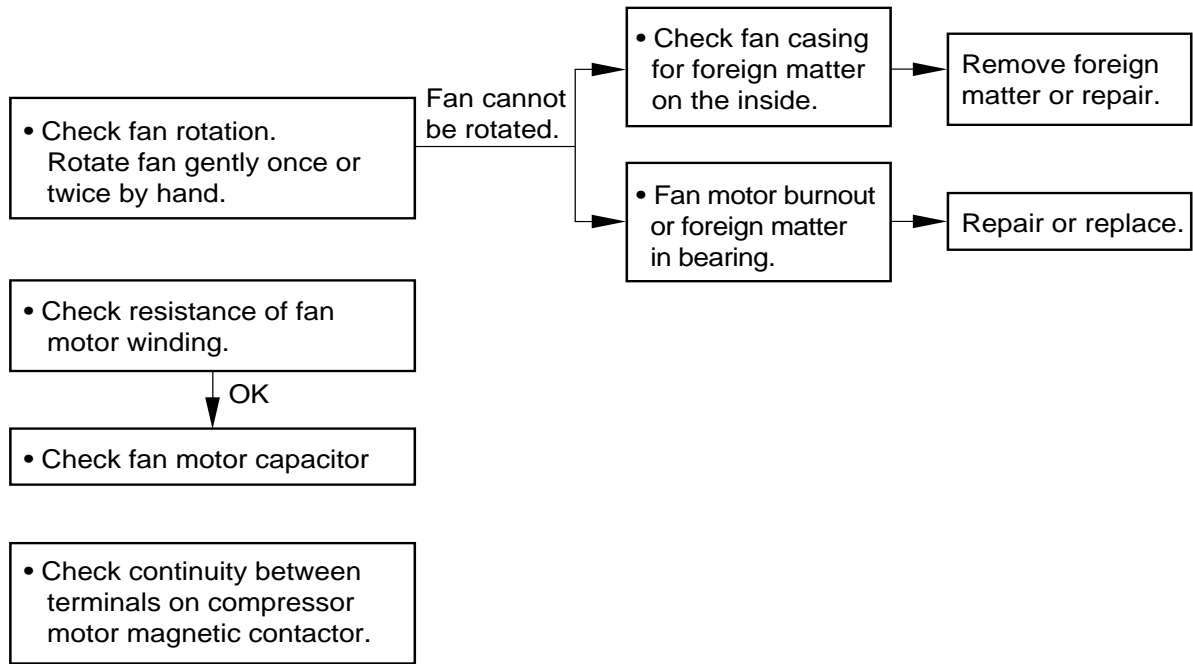
(1) Only indoor fan does not run.



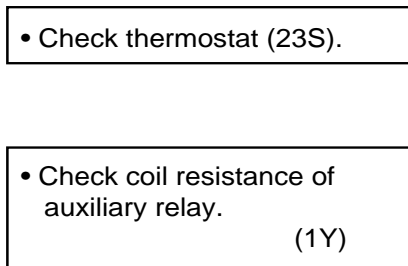
(2) Only louver motor does not run.



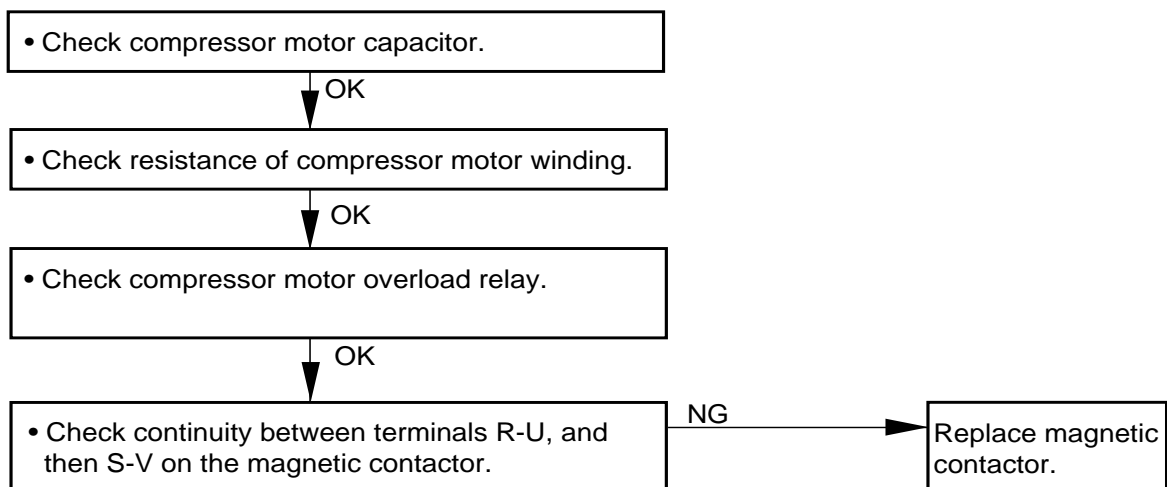
(6) Outdoor fan does not run.



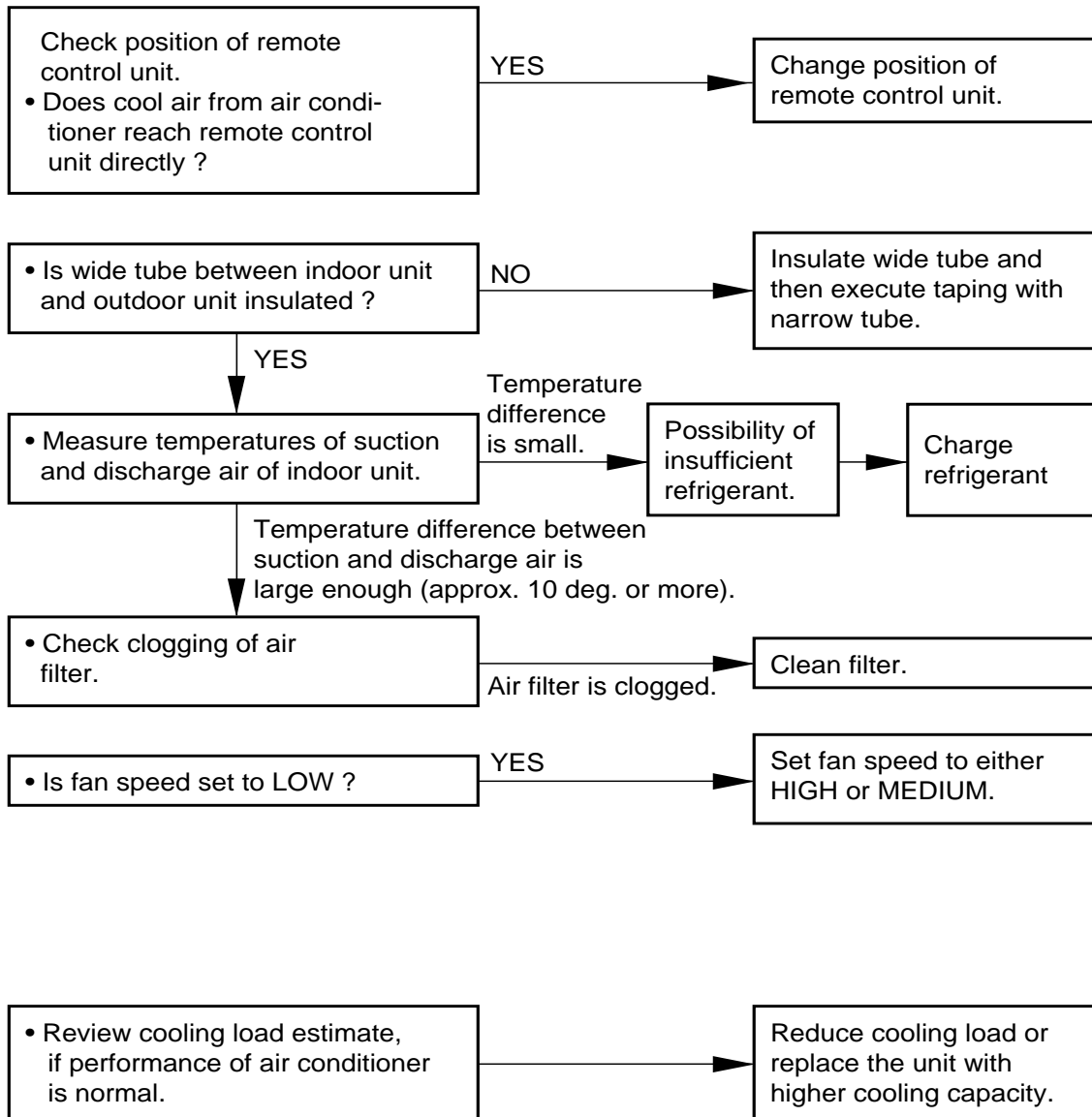
(7) Outdoor fan speed is not switched from High to Low even when the outdoor temperature falls below 25.5°C.



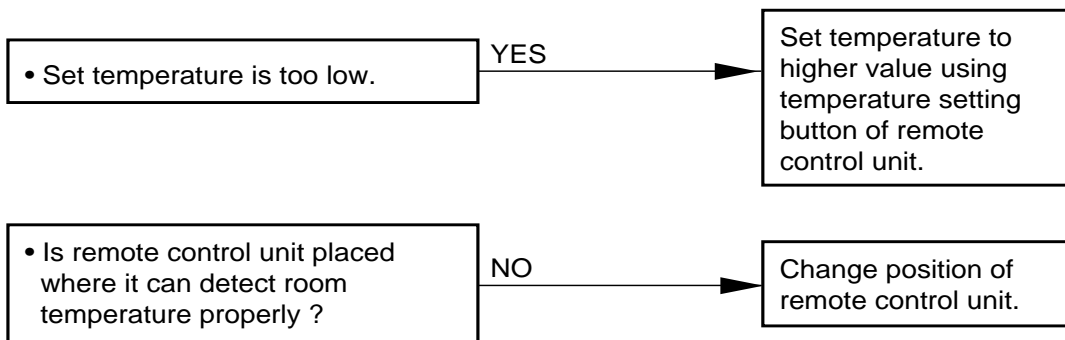
(8) Compressor does not run.



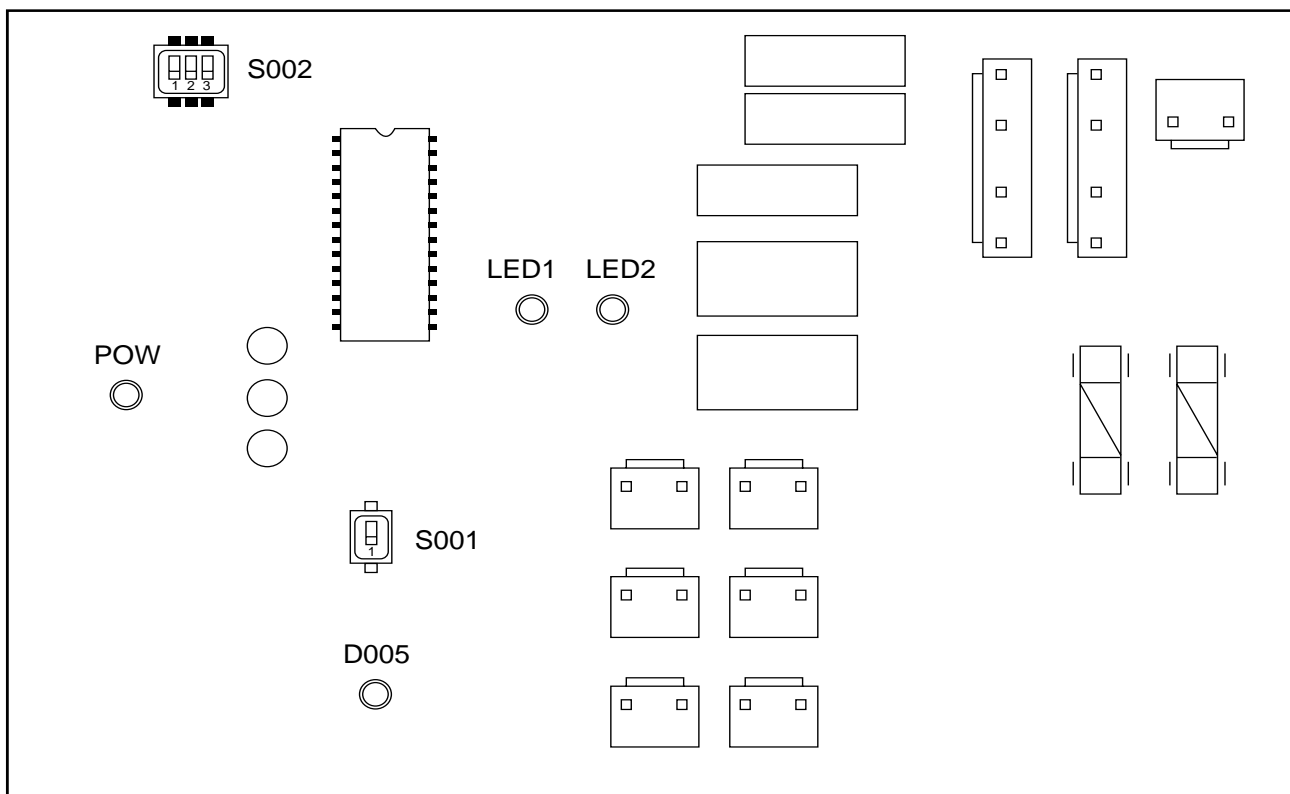
(9) Poor cooling



(10) Excessive cooling.



(11) PCB for "SCL" models



S002 (Capacity Code)

	1	2	3
25 type	OFF	OFF	OFF
36 type	ON	OFF	OFF
48 type	ON	ON	OFF

Meaning of LED indication

POW	LED1	LED2	D005	Cause of trouble
Light	Off	Off	Light	Normal state
Light	Flash	Light	Light	High pressure switch is activated, Outdoor fan thermal protector activated, Outdoor coil thermistor is open or short
Light	Off	Light	Light	Low pressure switch is activated
Light	Off	Light	Off	Negative phase, Defective phase

(12) Defective Sensor.

1. Indoor (heat exchanger) coil temp. Sensor is defective.

(a) Open (=No continuity in sensor)

Compressor and outdoor fan repeatedly go ON for 10 minutes and OFF for 6 minutes when sensor opens.

(b) Short

"Freeze Prevention" does not operate when dehumidified water is frozen on the indoor coil.

2. Room temp. Sensor (in the remote control unit) is defective.

(a) Open (=No continuity in sensor)

Neither the outdoor fan nor compressor runs.

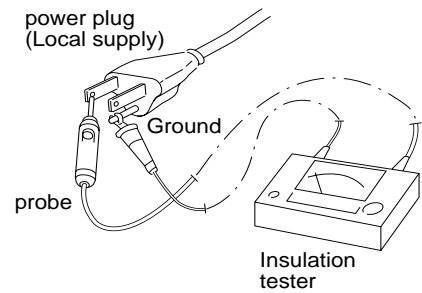
(b) Short

The outdoor fan and compressor do not stop. — Excessive cooling.

6. CHECKING ELECTRICAL COMPONENTS

6-1 Measurement of Insulation Resistance

The insulation is in good condition if the resistance exceeds $1M\Omega$



NOTE

The shape of the power plug may differ from that of the air conditioner which you are servicing.

Fig. 1

6-1-1. Power supply wires

Clamp the grounding terminal of the power plug with a lead clip of the insulation resistance tester and measure the resistance by placing a probe on both the two power terminals. (fig.1)

Then, also measure the resistance between the grounding and other power terminals. (fig.1)

6-1-2. Indoor Unit

Clamp a metallic part of the unit with the lead clip of the insulation resistance tester and measure the resistance by placing a probe on each terminal screw where power supply lines are connected on the terminal plate. (fig.2)

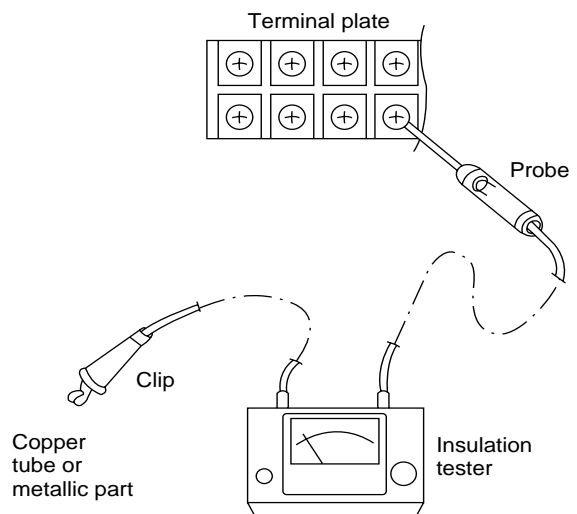


Fig. 2

6-1-3. Outdoor Unit

Clamp an aluminium plate fin or copper tube with the lead clip of the insulation resistance tester and measure the resistance by placing a probe on each terminal screw on the terminal plate. (fig.2) Note that the ground line terminal should be skipped for the check.

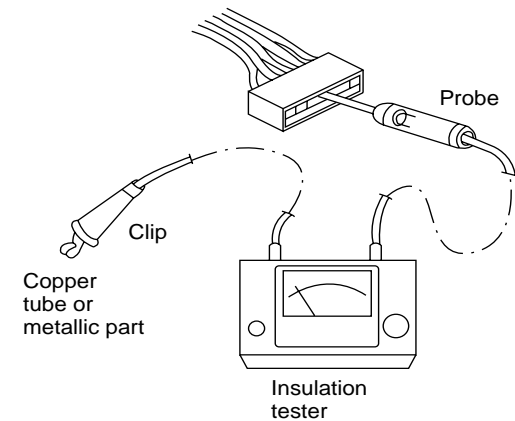


Fig. 3

6-1-4. Measurement of Insulation Resistance for Electrical Parts

Disconnect the lead wires of the desired electric part from terminal plate, capacitor, etc. Similarly disconnect the connector. Then measure the insulation resistance. (fig.3 and 4)

NOTE: Refer to electric wiring diagram

If the probe cannot enter the poles because the hole is too narrow then use a probe with a thinner pin.

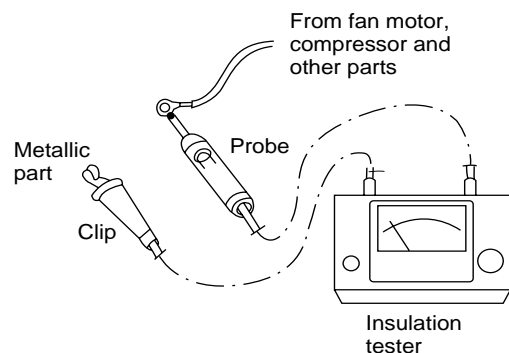


Fig. 4

6-2 Checking Continuity of Fuse on PCB Ass'y

Remove the PCB Ass'y from the electrical component box. Then pull out the fuse from the PCB Ass'y. (fig.5)

Check for continuity using a multimeter as shown in fig.6

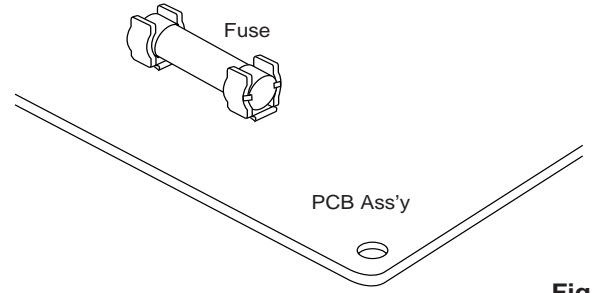


Fig. 5

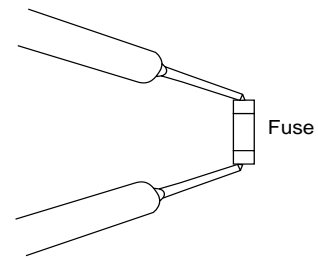


Fig. 6

6-3 Checking Motor Capacitor

Remove the lead wires from the capacitor terminals, and then place a probe on the capacitor terminals as shown in fig.7. Observe the deflection of the pointer, setting the resistance measuring range of the multimeter to the maximum value.

The capacitor is "good" if the pointer bounces to a great extent and then gradually returns to its original position.

The range of deflection and deflection time differ according to the capacity of the capacitor.

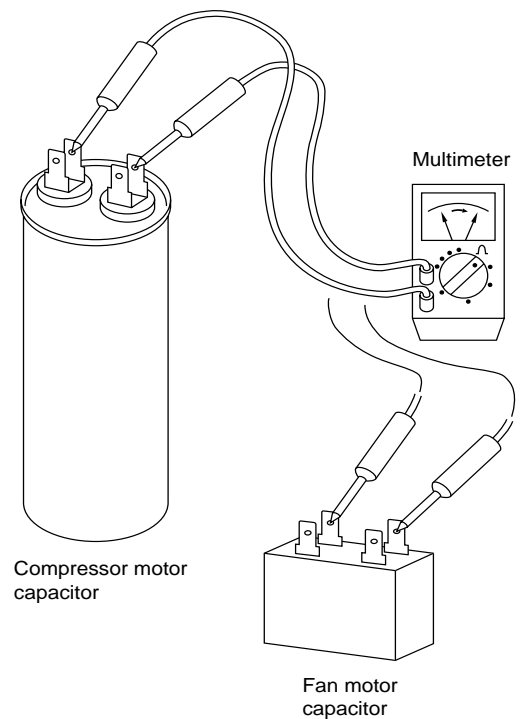
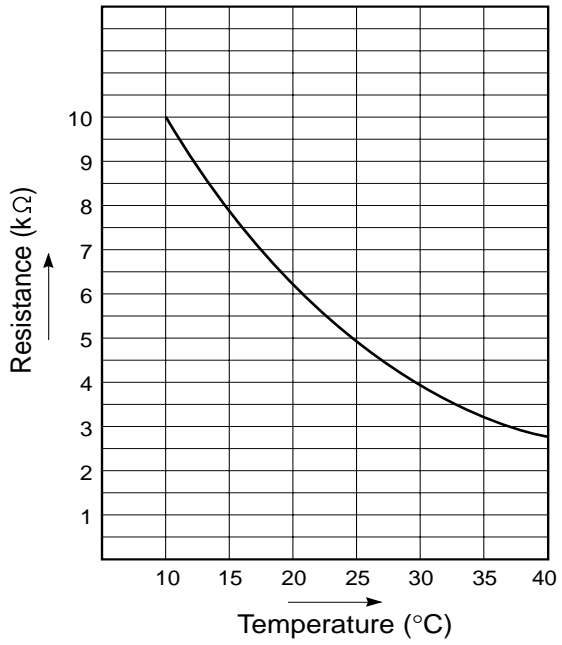


Fig. 7

6-4 Thermistor Characteristic Curve

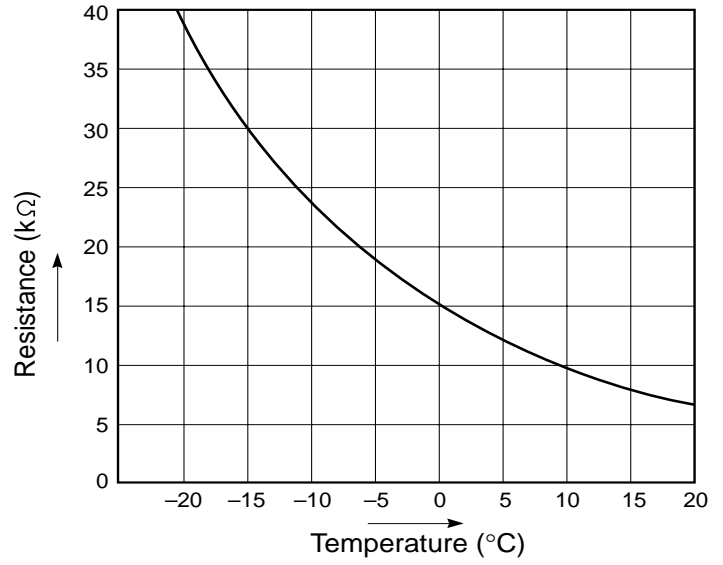
① Room temp. sensor

(KTEC-35)



① Coil sensor

(PBC-41E)



argoclima s.p.a.

Via Varese, 90 - 21013 Gallarate - Va - Italy
Tel. +39 0331 755111 - Fax +39 0331 776240
www.argoclima.it