

# TECHNICAL & SERVICE MANUAL

**SANYO**

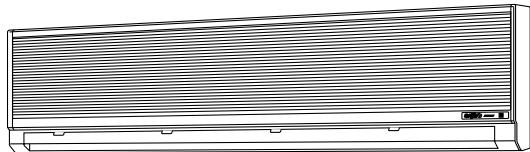
**SAP-K363GS5B + SAP-C363G5A  
SAP-K363GS6B + SAP-C363G6**

FILE NO.

## SPLIT SYSTEM AIR CONDITIONER

Indoor Model No.	Product Code No.	Outdoor Model No.	Product Code No.	Destination
SAP-K363GS5B	1 852 078 66	SAP-C363G5A	1 854 015 71	General (50Hz) & Middle east (50Hz)
SAP-K363GS6B	1 852 078 67	SAP-C363G6	1 852 742 20	General (60Hz) & Saudi arabia (60Hz)

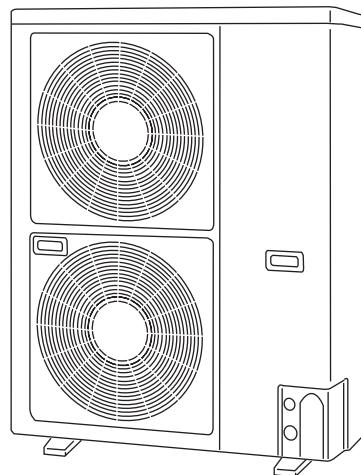
Indoor Unit



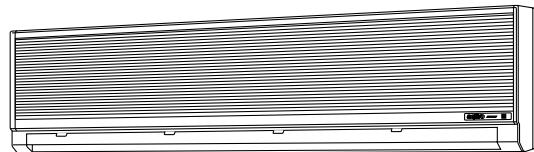
Outdoor Unit



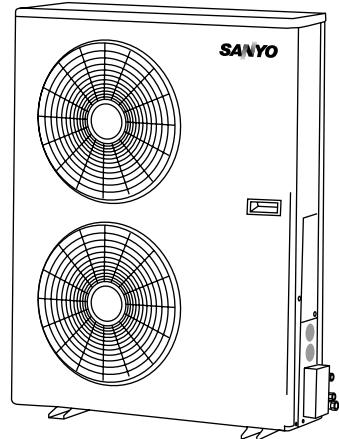
**SAP-K363GS5B**



**SAP-C363G5A**



**SAP-K363GS6B**



**SAP-C363G6**

## Important!

### Please Read Before Starting

This air conditioning system meets strict safety and operating standards. As the installer or service person, it is an important part of your job to install or service the system so 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.



**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 sales/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

**WARNING**

#### When Wiring



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

- Do not supply power to the unit until all wiring and tubing are completed or reconnected and checked.
- 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 or death.
- Ground the unit following local electrical codes.
- Connect all wiring tightly. Loose wiring may cause overheating at connection points and a possible fire hazard.

### 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 aluminum fins on the air conditioner can cut your fingers.

### When Installing...

#### ...In a Ceiling or Wall

Make sure the ceiling/wall is strong enough to hold the unit's weight. It may be necessary to construct a strong wood or metal frame to provide added support.

#### ...In a Room

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

#### ...In Moist or Uneven Locations

Use a raised concrete pad or concrete blocks to provide a solid, level foundation for the outdoor unit. This prevents water damage and abnormal vibration.

#### ...In an Area with High 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

- Use the flare method for connecting tubing.
- Apply refrigerant lubricant to the matching surfaces of the flare and union tubes before connecting them, then tighten the nut with a torque wrench for a leak-free connection.
- Check carefully for leaks before starting the test run.

### When Servicing

- Turn the power off at the main power box (mains) 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 you finish, remembering to check that no metal scraps or bits of wiring have been left inside the unit being serviced.

### Others



**CAUTION**

- Ventilate any enclosed areas when installing or testing the refrigeration system. Escaped refrigerant gas, on contact with fire or heat, can produce dangerously toxic gas.
- Confirm upon completing installation that no refrigerant gas is leaking. If escaped gas comes in contact with a stove, gas water heater, electric room heater or other heat source, it can produce dangerously toxic gas.

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# 1. OPERATING RANGE

## 50Hz Models

Indoor Unit      **SAP-K363GS5B**  
Outdoor Unit      **SAP-C363G5A**

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	32°C D.B. / 23°C W.B.	52°C D.B.
	Minimum	19°C D.B. / 14°C W.B.	19°C D.B.

## 60Hz Models

Indoor Unit      **SAP-K363GS6B**  
Outdoor Unit      **SAP-C363G6**

	Temperature	Indoor Air Intake Temp.	Outdoor Air Intake Temp.
Cooling	Maximum	29°C D.B. / 19°C W.B.	54°C D.B.
	Minimum	19°C D.B. / 14°C W.B.	19°C D.B.

## 2. SPECIFICATIONS

### 2-1. Unit Specifications

Indoor Unit SAP-K363GS5B  
Outdoor Unit SAP-C363G5A

Power Source			220 / 230 / 240 V Single phase 50 Hz	
Voltage rating			220 / 230 / 240	
Performance			Cooling	
Capacity	kW		10.00	
	BTU/h		34,100	
Air circulation (High)	m³/h		1,500	
Moisture removal (High)	Liters/h		6.0	
Electrical Rating				
Available voltage range	V		198 to 264	
Running amperes	A		15.3 / 16.0 / 17.3	
Power input	W		3,000 / 3,070 / 3,220	
Power factor	%		89 / 83 / 78	
C.O.P.	W/W		3.33 / 3.26 / 3.11	
Compressor locked rotor amperes	A		102 / 107 / 111	
Features				
Controls / Temperature control			Microprocessor / I.C. thermostat	
Control unit			Wireless remote control unit	
Timer			1-hour OFF / 12-hour ON or OFF	
Fan speeds	Indoor / Outdoor		3 and Auto / Auto (Hi, Lo)	
Airflow direction (Indoor)	Horizontal		Manual	
	Vertical		Auto	
Air filter			Washable, Anti-Mold	
Compressor			Rotary (Hermetic)	
Refrigerant / Amount charged at shipment	g		R22 / 4,200	
Refrigerant control			Capillary tube	
Operation sound	Indoor – Hi / Me / Lo	dB-A	48 / 45 / 42	
	Outdoor – Hi	dB-A	54	
Refrigerant tubing connections			Flare type	
Max. allowable tubing length at shipment	m		15	
Refrigerant tube diameter	Narrow tube	mm (in.)	9.52 (3/8)	
	Wide tube	mm (in.)	19.05 (3/4)	
Refrigerant tube kit / Accessories			Optional / Hanging wall bracket	
Dimensions & Weight			Indoor Unit	Outdoor Unit
Unit dimensions	Height	mm	370	1,235
	Width	mm	1,500	940
	Depth	mm	240	340
Package dimensions	Height	mm	352	1,326
	Width	mm	1,604	1,016
	Depth	mm	463	416
Weight	Net	kg	31.0	94
	Shipping	kg	38.5	101
Shipping volume		m³	0.26	0.56

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

**Remarks:** Rating conditions are:

Cooling: Indoor air temperature 27°C D.B. / 19°C W.B.

Outdoor air temperature 35°C D.B. / 24°C W.B.

Indoor Unit **SAP-K363GS6B**  
 Outdoor Unit **SAP-C363G6**

Power Source			220 V Single phase <b>60 Hz</b>			
Voltage rating			220			
			<b>Cooling</b>			
Performance	Capacity	kW	10.00	9.23 (SASO)		
		BTU/h	34,100	31,500 (SASO)		
	Air circulation (High)	m <sup>3</sup> /h	1,500			
	Moisture removal (High)	Liters/h	6.0			
Electrical Rating	Available voltage range	V	198 to 242			
	Running amperes	A	20.1	22.7 (SASO)		
	Power input	W	4,150	4,700 (SASO)		
	Power factor	%	94	94 (SASO)		
	C.O.P.	W/W	2.41	1.96 (SASO)		
	Compressor locked rotor amperes	A	100			
Features	Controls / Temperature control	Microprocessor / I.C. thermostat				
	Control unit	Wireless remote control unit				
	Timer	1-hour OFF / 12-hour ON or OFF				
	Fan speeds	Indoor / Outdoor	3 and Auto / Auto (Hi, Lo)			
	Airflow direction (Indoor )	Horizontal	Manual			
		Vertical	Auto			
	Air filter	Washable, Anti-Mold				
	Compressor	Rotary (Hermetic)				
	Refrigerant / Amount charged at shipment	g	R22 / 3,600			
	Refrigerant control	Capillary tube				
	Operation sound	Indoor – Hi / Me / Lo	dB-A	48 / 45 / 42		
		Outdoor – Hi	dB-A	54		
	Refrigerant tubing connections	Flare type				
	Max. allowable tubing length at shipment	m	15			
	Refrigerant tube diameter	Narrow tube	mm (in.)	9.52 (3/8)		
		Wide tube	mm (in.)	19.05 (3/4)		
	Refrigerant tube kit	Optional / Hanging wall bracket				
Dimensions & Weight	Indoor Unit			Outdoor Unit		
	Unit dimensions	Height	mm	370		
		Width	mm	1,500		
		Depth	mm	240		
	Package dimensions	Height	mm	352		
		Width	mm	1,604		
		Depth	mm	463		
	Weight	Net	kg	31.0		
		Shipping	kg	38.5		
	Shipping volume	m <sup>3</sup>		0.26		
				0.55		

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

**Remarks:** • Rating conditions are:

Cooling: Indoor air temperature 27°C D.B. / 19°C W.B.  
 Outdoor air temperature 35°C D.B. / 24°C W.B.

• Conditions by SSA 385, 386 (Saudi standard) are:

Cooling: Indoor air temperature 29°C D.B. / 19°C W.B.  
 Outdoor air temperature 46°C D.B. / 24°C W.B.

## 2-2. Major Component Specifications

### 2-2-1. Indoor Unit

Indoor Unit      SAP-K363GS5B

Controller PCB	Part No.	POW-KS2412B				
	Controls	Microprocessor				
	Control circuit fuse	250 V – 3 A				
Remote Control Unit				RCS-5S2E-G		
Fan & Fan Motor	Type	Cross-flow				
	Q'ty ... Dia. and length	mm	1 ... ø120 / L1,170			
	Fan motor model ... Q'ty		SFG4Q-41B5P ... 1			
	No. of poles ... rpm (230 V, High)		4 ... 1,298			
	Nominal output	W	40			
	Coil resistance (Ambient temp. 20°C)	Ω	WHT – GRY : 143.9 WHT – VLT : 34.0 VLT – ORG : 23.1 ORG – YEL : 42.6 YEL – PNK : 44.1			
	Safety devices	Type	Thermal protector			
	Operating temp.	Open °C	130 ± 8			
		Close	Automatic reclosing			
	Run capacitor	μF	3.0			
		VAC	440			
Louver Motor	Model	M2LJ24ZE31				
	Rating	AC 208 / 230 V, 50 / 60 Hz				
	No. of poles ... rpm	8 ... 2.5 / 3.0				
	Nominal output	W	3 / 2.5			
	Coil resistance (Ambient temp. 20°C)	kΩ	16.45 ± 15%			
Heat Exch. Coil	Coil	Aluminum plate fin / Copper tube				
	Rows	3				
	Fin pitch	mm	2.0			
	Face area	m <sup>2</sup>	0.309			

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Indoor Unit SAP-K363GS6B

Controller PCB	Part No.		POW-KS2412B
	Controls		Microprocessor
	Control circuit fuse		250 V – 3 A
Remote Control Unit			RCS-5S2E-G
Fan & Fan Motor	Type		
	Number ... Dia. and length		
	mm		
	Fan motor model ... Number		
	SFG4Q-41B6P ... 1		
	No. of poles ... rpm (220 V, High)		
	4 ... 1,280		
	Nominal output		
	W		
	40		
Safety devices	Coil resistance (Ambient temp. 20°C)		
	Ω		
	WHT – GRY : 122.3		
	WHT – VLT : 16.0		
	VLT – ORG : 11.9		
Run capacitor	ORG – YEL : 23.0		
	YEL – PNK : 9.3		
	Thermal protector		
	130 ± 8		
Louver Motor	Type		
	Operating temp.	Open	°C
		Close	
	Automatic reclosing		
	Run capacitor		
Heat Exch. Coil	μF		
	4.0		
	VAC		
	440		
	Model		
M2LJ24ZE31			
Rating			AC 208 / 230 V, 50 / 60 Hz
No. of poles ... rpm			8 ... 2.5 / 3.0
Nominal output			3 / 2.5
Coil resistance (Ambient temp. 20°C)			16.45 ± 15%
Coil			Aluminum plate fin / Copper tube
Rows			3
Fin pitch			2.0
Face area			m <sup>2</sup>
0.309			

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

## 2-2-2. Outdoor Unit

Outdoor Unit SAP-C363G5A

Compressor	Type	Rotary (Hermetic)				
	Compressor	C-R240H5W 80669045				
	Nominal output	W	2,400			
	Compressor oil ... Amount	cc	SUNISO 4GSD-T ... 1,350			
	Coil resistance (Ambient temp. 25°C)	Ω	C – R : 0.69 C – S : 2.66 R – S : 3.34			
	Type	Internal protector				
	Safety devices	Overload relay	—			
	Safety devices	Operating temp.	Open °C	175 ± 5		
			Close °C	105 ± 9		
	Operating amp.(Ambient temp. 25°C)					
Fan & Fan Motor	Run capacitor	μF	40			
		VAC	400			
	Crank case heater		—			
	Type	Propeller				
	Q'ty ... Dia.	mm	2 ... ø460			
	Fan motor model ... Q'ty		KFC6S-91C5P... 2			
	No. of poles ... rpm (230 V, High)		6 ... 871			
	Nominal output	W	100W x 2			
	Coil resistance (Ambient temp. 20°C)	Ω	WHT – BRN: 61.0 WHT – YEL : 64.3 YEL – PNK : 17.7			
	Type	Thermal protector				
Heat Exch. Coil	Safety devices	Operating temp.	Open °C	130 ± 8		
		Close °C	79 ± 15			
	Run capacitor ... Q'ty	μF	5.0... 2			
		VAC	440			
	Coil	Aluminum plate fin / Copper tube				
	Rows	2				
	Fin pitch	mm	2.0			
	Face area	m <sup>2</sup>	1.08			
	External Finish	Acrylic baked-on enamel finish				

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

Outdoor Unit SAP-C363G6

	Type	Rotary (Hermetic)				
	Compressor	Model	C-R240H6W			
		Code number	80669046			
	Nominal output	W	2,400			
	Compressor oil ... Amount	cc	SUNISO 4GSD-T ... 1,350			
	Coil resistance (Ambient temp. 25°C)	Ω	C – R : 0.48 C – S : 2.19			
Compressor	Type	Internal protector				
	Overload relay	—				
	Operating temp.	Open °C	160 ± 5			
		Close °C	102 ± 11			
	Operating amp.(Ambient temp. 25°C)			—		
	Run capacitor	μF	40			
		VAC	400			
	Crank case heater		240V	30W		
Fan & Fan Motor	Type	Propeller		Propeller		
	Number ... Dia.	mm	1 ... ø400			
	Fan motor model ... Number		SFG6S-61A6P... 1	SFG6S-61A6P... 1		
	Source		—	—		
	No. of poles ... rpm (220 V, High)		6 ... 890	6 ... 980		
	Nominal output	W	60	60		
	Coil resistance (Ambient temp. 20°C)	Ω	WHT – GRY: 119.4 WHT – YEL : 54.1 YEL – PNK : 65.5	WHT – GRY: 119.4 WHT – YEL : 54.1 YEL – PNK : 65.5		
	Type	Thermal protector		Thermal protector		
	Operating temp.	Open °C	130 ± 8	130 ± 8		
		Close	Automatic reclosing	Automatic reclosing		
	Run capacitor	μF	2.5	3.0		
		VAC	440	440		
Heat Exch. Coil	Coil	Aluminum plate fin / Copper tube				
	Rows	2				
	Fin pitch	mm	1.6			
	Face area	m²	0.860			
	External Finish	Acrylic baked-on enamel finish				

DATA SUBJECT TO CHANGE WITHOUT NOTICE.

## 2-3. Other Component Specifications

Indoor Unit      SAP-K363GS5B  
 SAP-K363GS6B

Transformer (TR)		ATR-I125
Rating	Primary	AC 230V, 50Hz
	Secondary	10V
	Capacity	12VA
Coil resistance	Ω (at 19°C)	Primary (WHT – WHT): 164.1 Secondary (BRN – BRN): 0.7
Thermal fuse		145°C

Thermistor (Coil sensor TH1)		PBC-41E-S4
Resistance	kΩ	-20°C 40.1± 5%                  20°C 6.5± 5%
		-10°C 24.4± 5%                  30°C 4.4± 5%
		0°C 15.3± 5%                  40°C 3.0± 5%
		10°C 9.9± 5%                  50°C 2.1± 5%

Thermistor (Room sensor TH2)		KTEC-35-S6
Resistance	kΩ	10°C 10.0 ± 4%                  30°C 4.0 ± 4%
		15°C 7.9 ± 4%                  35°C 3.3 ± 4%
		20°C 6.3 ± 4%                  40°C 2.7 ± 4%
		25°C 5.0 ± 4%                  50°C 1.8 ± 4%

Outdoor Unit SAP-C363G5A

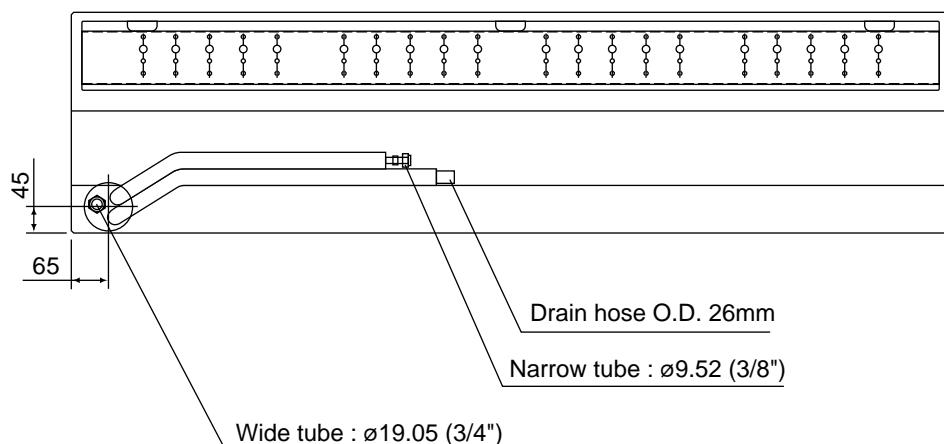
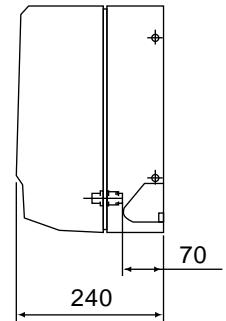
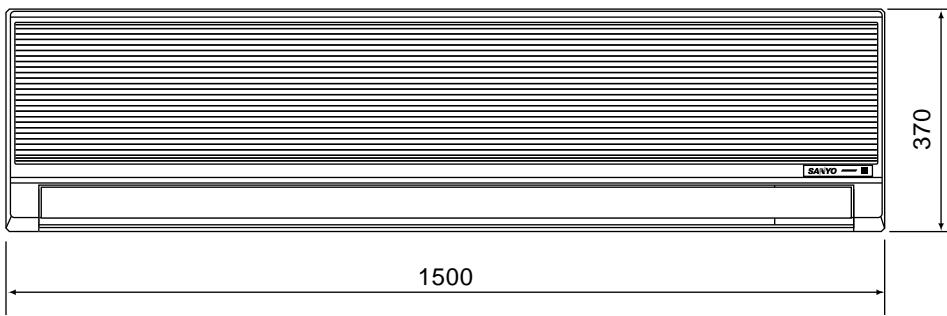
<b>High Pressure Switch</b>		<b>ACB-1TB07</b>
Operating pressure	kg / cm <sup>2</sup>	OFF : 30 + 2.0, -0.5 ON : 24 ± 2.0
<b>Auxiliary Relay</b>		<b>HH62S / 085</b>
Coil rating		AC 240V, 50Hz
Coil resistance	kΩ (at 20°C)	17.2
Contact rating		AC 220V, 5A
<b>Compressor Motor Magnetic Contactor</b>		<b>FC-1SZ607</b>
Coil rating		50Hz 220 ~ 240V
Coil resistance	Ω (at 20°C)	828 ± 15%
Contact rating		AC 440V, 13A
<b>PTC Thermistor (TH)</b>		<b>TDK 101YV</b>
Resistance	Ω (at 25°C)	100 ± 20%
<b>Thermostat (for Fan Speed Control )</b>		<b>YTB-S377</b>
Operating temperature. °C		high → LOW 25.5 + 1.5, -0.5 low → HIGH 27.5 ± 1.5
Contact rating		AC 250V, 1A

Outdoor Unit SAP-C363G6

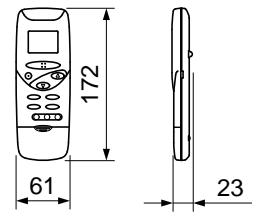
<b>PTC Thermistor (TH)</b>	<b>TDK 101YV</b>	
Resistance	$\Omega$ (at 25°C)	100 ± 20%
<b>High Pressure Switch</b>		<b>ACB-JB63</b>
Operating pressure	kg. f. /cm <sup>2</sup>	OFF : 30 + 2.0, -0.5 ON : 24 ± 2.0
Contact rating	AC 250V, 4A	
<b>Relay (for fan motor)</b>		<b>MCS240A2F</b>
Coil rating	50 / 60 Hz AC 220 / 240V	
Coil resistance	$k\Omega$ (at 20°C)	15.5 ± 15%
Contact rating	AC 200, 250V, 5A	
<b>Magnetic Contactor</b>		<b>FMCA-1SZ607</b>
Coil rating	60Hz AC 200 / 220V	
Coil resistance	$k\Omega$ (at 25°C)	662 ± 15%
Contact rating Main	AC 200–220V, 28A	
Auxiliary	AC 200–220V, 8A	
<b>Thermostat (for Fan Speed Control )</b>		<b>YTB-S377</b>
Operating temperature. °C	high → LOW 25.5 + 1.5, -0.5 low → HIGH 27.5 ± 1.5	
Contact rating	AC 250V, 1A	

### 3. DIMENSIONAL DATA

Indoor Unit      SAP-K363GS5B  
                  SAP-K363GS6B



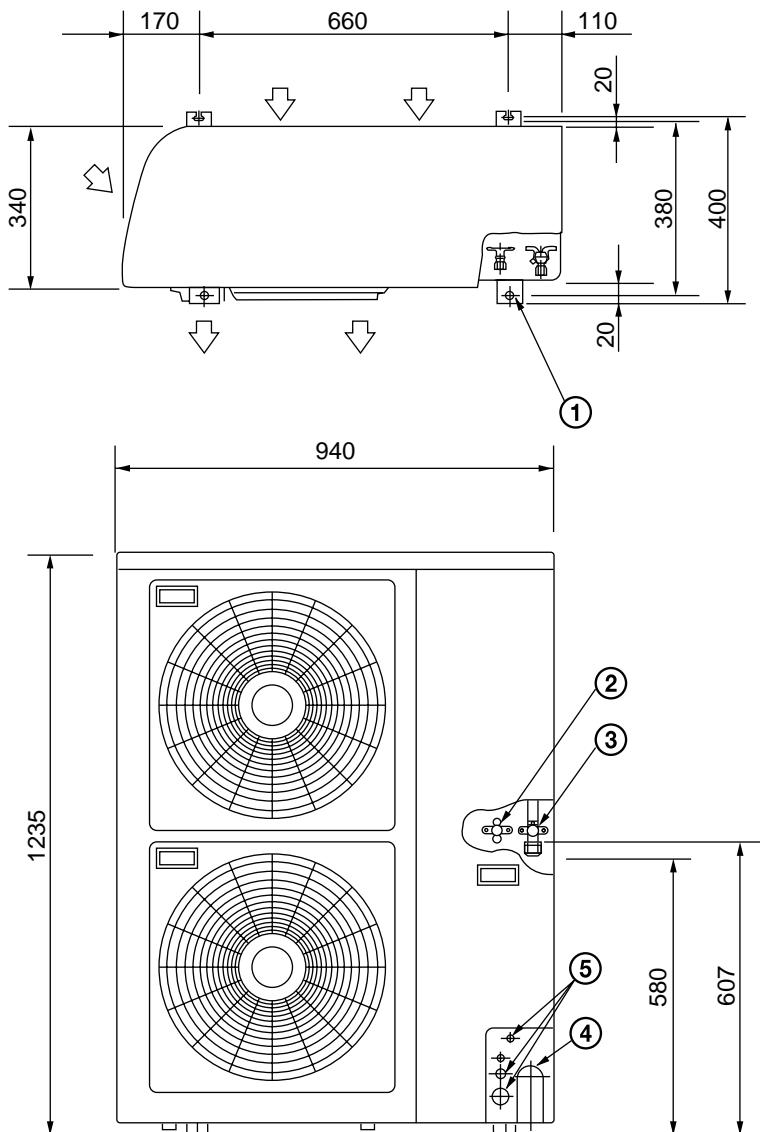
Remote control unit



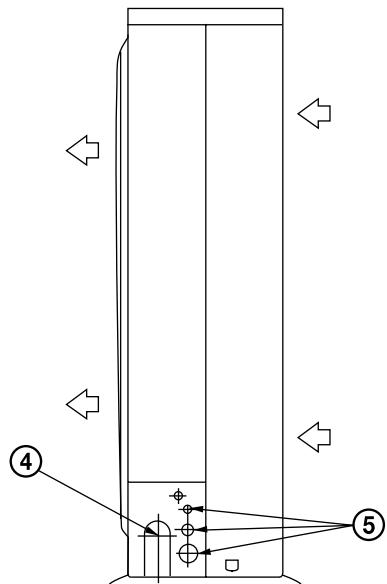
RCS-5S2E-G

Unit : mm

Outdoor Unit SAP-C363G5A

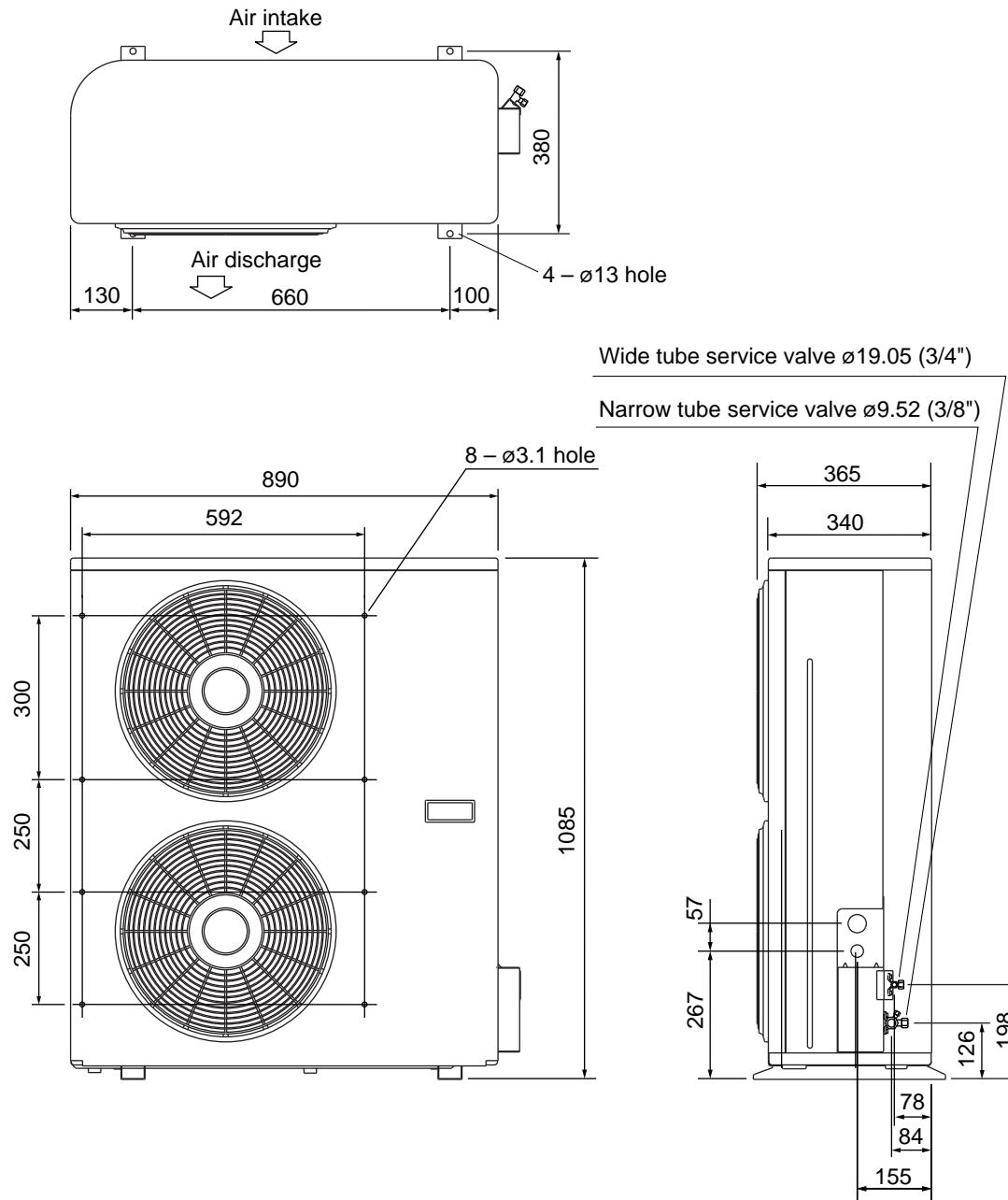


- ① Hole for anchor bolt 4-ø13
- ② Refrigerant tube joint (narrow tube)  
Flare connection ø9.52 (3/8")
- ③ Refrigerant tube joint (wide tube)  
Flare connection ø19.05 (3/4")
- ④ Refrigerant tubing inlet
- ⑤ Power supply inlet



Unit : mm

Outdoor Unit SAP-C363G6

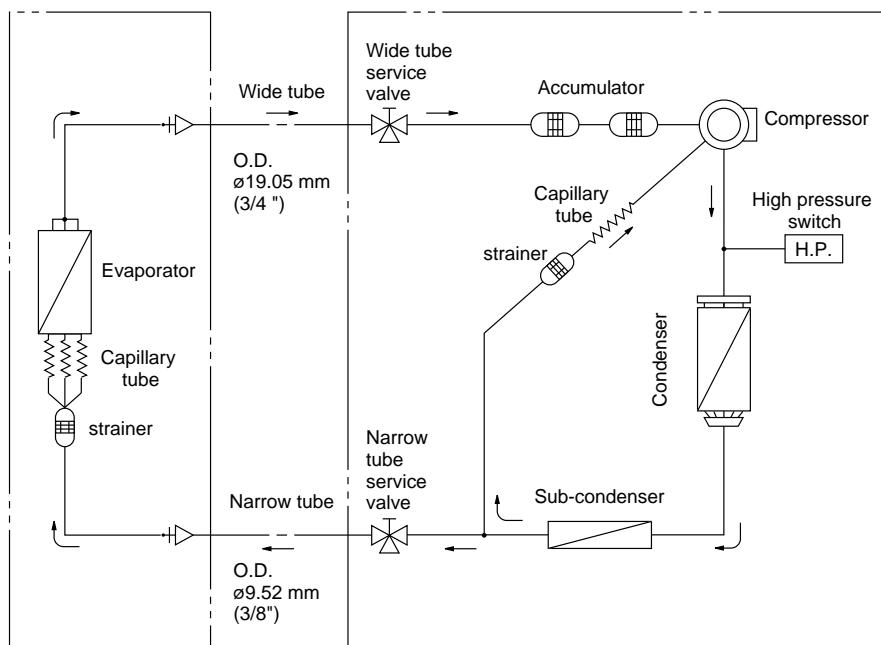


Unit : mm

## 4. REFRIGERANT FLOW DIAGRAM

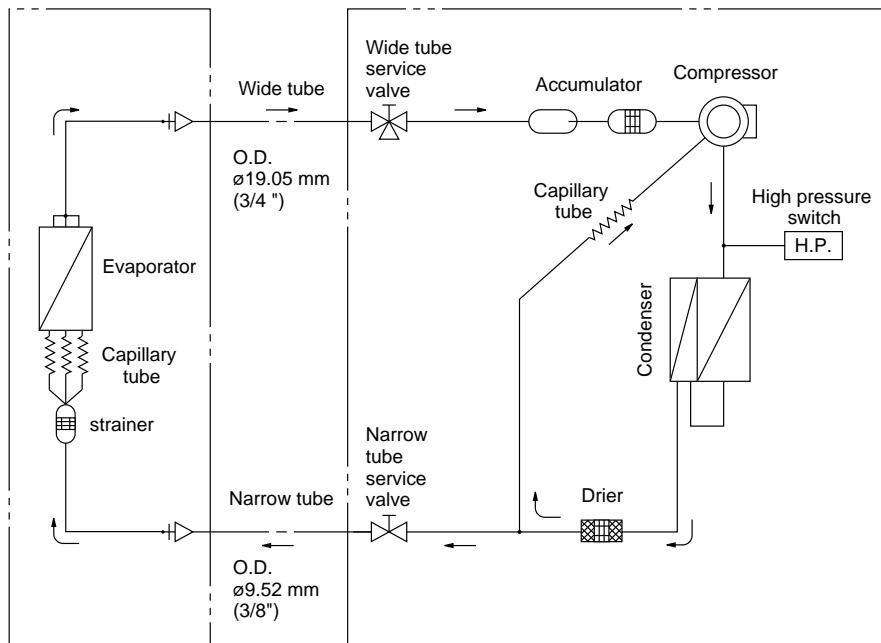
Indoor Unit

**SAP-K363GS5B**



Indoor Unit

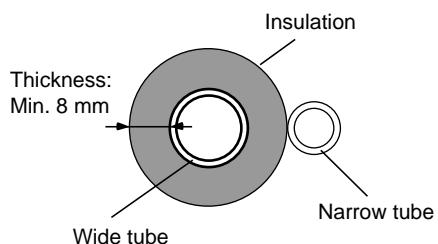
**SAP-K363GS6B**



### Insulation of Refrigerant Tubing

#### IMPORTANT

To conserve energy and prevent wet floors due to condensation, the wide tube must be well insulated with a proper insulation material. The thickness of the insulation should be a minimum of 8 mm.



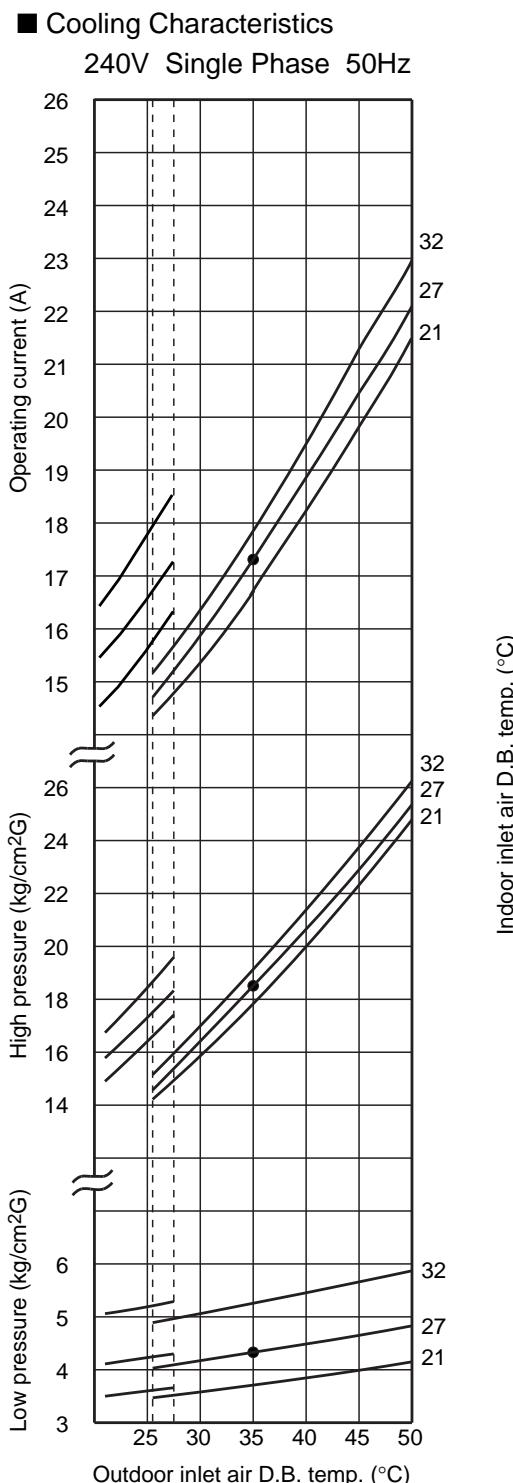
**CAUTION**

After a tube has been insulated,  
never try to bend it into a narrow  
curve because it can cause the tube  
to break or crack.

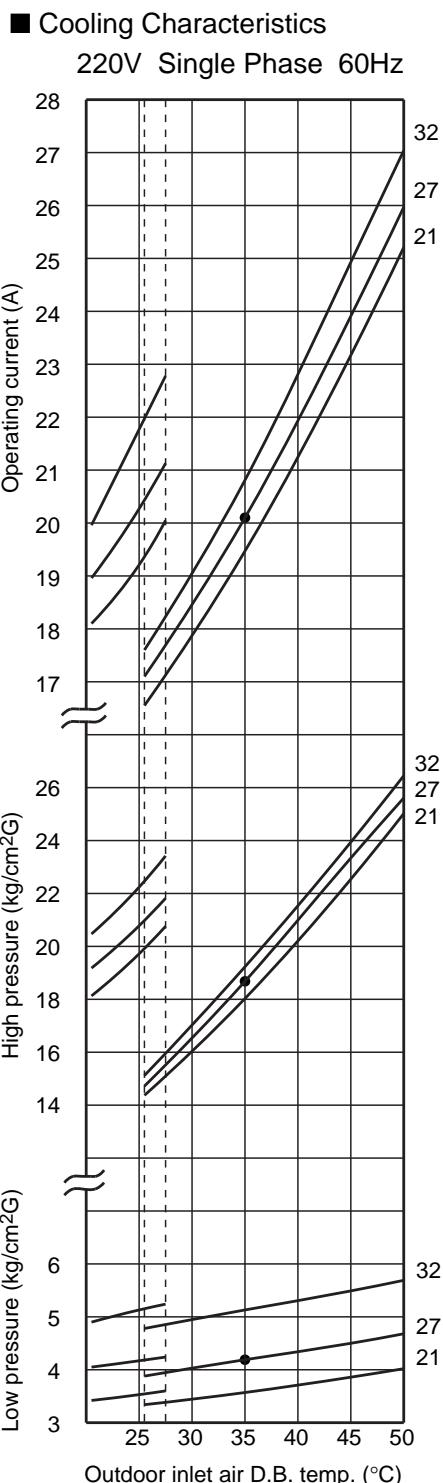
## 5. PERFORMANCE DATA

### 5-1. Performance charts

Indoor Unit SAP-K363GS5B  
Outdoor Unit SAP-C363G5A



Indoor Unit SAP-K363GS5B  
Outdoor Unit SAP-C363G6



#### NOTE

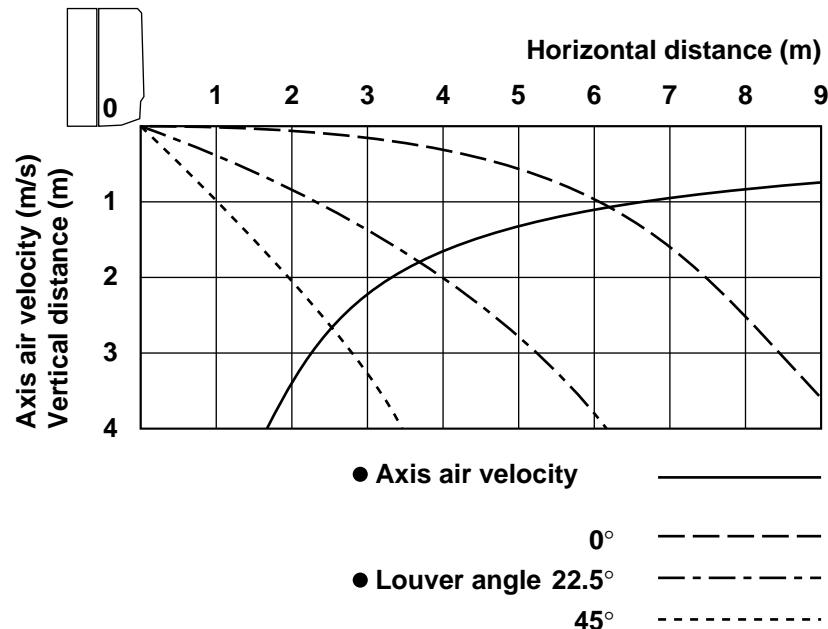
- ..... Points of Rating condition  
Black dots in above charts indicate the following rating conditions.

Cooling: Indoor air temperature 27°C DB/19°C WB  
Outdoor air temperature 35°C DB/24°C WB

## 5-2. Air Throw Distance Chart

Indoor Unit      SAP-K363GS5B  
                  SAP-K363GS6B

Room air temp. : 27°C  
Fan speed : High



### 5-3. Cooling Capacity

Indoor Unit      **SAP-K363GS5B**  
 Outdoor Unit      **SAP-C363G5A**

240V Single Phase 50Hz

		RATING CAPACITY	10.00 kW				
		AIR FLOW RATE	1500 m³/h				
		EVAPORATOR	CONDENSER				
		ENT. TEMP. °C	OUTDOOR AMBIENT TEMP. °C				
W.B.	D.B.		30	35	40	45	50
15		TC	9.20	8.76	8.23	7.58	6.83
		CM	2.42	2.60	2.91	3.23	3.53
	21	SHC	6.38	6.16	5.90	5.59	5.23
	23	SHC	7.20	6.98	6.72	6.41	6.06
	25	SHC	8.03	7.81	7.55	7.23	6.83
	27	SHC	8.85	8.63	8.23	7.58	6.83
	29	SHC	9.20	8.76	8.23	7.58	6.83
17		TC	9.87	9.40	8.84	8.13	7.33
		CM	2.49	2.67	2.99	3.30	3.61
	21	SHC	5.53	5.31	5.05	4.74	4.39
	23	SHC	6.36	6.14	5.88	5.56	5.21
	25	SHC	7.18	6.96	6.70	6.39	6.04
	27	SHC	8.01	7.79	7.53	7.21	6.86
	29	SHC	8.83	8.61	8.35	8.03	7.33
19		TC	10.50	# 10.00	9.40	8.65	7.80
		CM	2.57	2.76	3.07	3.39	3.71
	21	SHC	4.65	4.43	4.17	3.86	3.51
	23	SHC	5.47	5.25	5.00	4.68	4.34
	25	SHC	6.30	6.08	5.82	5.51	5.16
	27	SHC	7.12	6.90	6.65	6.33	5.99
	29	SHC	7.94	7.73	7.47	7.16	6.81
21		TC	11.13	10.60	9.96	9.17	8.27
		CM	2.64	2.83	3.16	3.48	3.81
	23	SHC	4.57	4.36	4.11	3.80	3.46
	25	SHC	5.40	5.18	4.93	4.62	4.29
	27	SHC	6.22	6.01	5.76	5.45	5.11
	29	SHC	7.05	6.83	6.58	6.27	5.93
	31	SHC	7.87	7.66	7.41	7.10	6.76
23		TC	11.79	11.13	10.42	9.69	8.78
		CM	2.71	2.91	3.24	3.57	3.90
	25	SHC	4.45	4.20	3.94	3.68	3.37
	27	SHC	5.27	5.03	4.77	4.51	4.19
	29	SHC	6.10	5.85	5.59	5.33	5.02
	31	SHC	6.92	6.68	6.42	6.16	5.84

TC : Total Cooling Capacity (kW)

SHC : Sensible Heat Capacity (kW)

CM : Compressor Input (kW)

Rating conditions (#Mark) are

Outdoor Ambient Temp. 35°C D.B.

Indoor Unit Entering Air Temp. 27°C D.B. / 19°C W.B.

Indoor Unit **SAP-K363GS5B**  
 Outdoor Unit **SAP-C363G6**

240V Single Phase **60Hz**

		RATING CAPACITY		10.0 kW							
		AIR FLOW RATE		1500 m <sup>3</sup> /h							
EVAPORATOR		CONDENSER									
ENT. TEMP. °C		OUTDOOR AMBIENT TEMP. °C									
W.B.	D.B.			30	35	40	45				
15		TC	9.20	8.76	8.23	7.58	6.83				
		CM	3.36	3.60	3.94	4.28	4.62				
	21	SHC	6.38	6.16	5.89	5.58	5.23				
	23	SHC	7.20	6.98	6.72	6.41	6.06				
	25	SHC	8.02	7.80	7.54	7.23	6.83				
	27	SHC	8.85	8.63	8.23	7.58	6.83				
	29	SHC	9.20	8.76	8.23	7.58	6.83				
17		TC	9.87	9.40	8.84	8.13	7.33				
		CM	3.45	3.70	4.05	4.39	4.73				
	21	SHC	5.53	5.31	5.05	4.73	4.39				
	23	SHC	6.35	6.13	5.88	5.56	5.21				
	25	SHC	7.18	6.96	6.70	6.38	6.03				
	27	SHC	8.00	7.78	7.52	7.21	6.86				
	29	SHC	8.83	8.61	8.35	8.03	7.33				
19		TC	10.50	# 10.00	9.40	8.65	7.80				
		CM	3.56	3.82	4.17	4.52	4.87				
	21	SHC	4.64	4.43	4.17	3.86	3.51				
	23	SHC	5.47	5.25	4.99	4.68	4.34				
	25	SHC	6.29	6.07	5.82	5.50	5.16				
	27	SHC	7.12	6.90	6.64	6.33	5.98				
	29	SHC	7.94	7.72	7.47	7.15	6.81				
21		TC	11.13	10.60	9.96	9.17	8.27				
		CM	3.66	3.92	4.28	4.64	5.00				
	23	SHC	4.57	4.36	4.10	3.80	3.46				
	25	SHC	5.40	5.18	4.93	4.62	4.28				
	27	SHC	6.22	6.01	5.75	5.45	5.11				
	29	SHC	7.04	6.83	6.58	6.27	5.93				
	31	SHC	7.87	7.65	7.40	7.09	6.76				
23		TC	11.79	11.13	10.42	9.69	8.78				
		CM	3.75	4.03	4.39	4.75	5.12				
	25	SHC	4.44	4.20	3.94	3.68	3.36				
	27	SHC	5.27	5.02	4.76	4.51	4.19				
	29	SHC	6.09	5.85	5.59	5.33	5.01				
	31	SHC	6.92	6.67	6.41	6.15	5.84				

TC : Total Cooling Capacity (kW)

SHC : Sensible Heat Capacity (kW)

CM : Compressor Input (kW)

Rating conditions (#Mark) are

Outdoor Ambient Temp. 35°C D.B.

Indoor Unit Entering Air Temp. 27°C D.B. / 19°C W.B.

## 6. ELECTRICAL DATA

### 6-1. Electrical Characteristics

Indoor Unit **SAP-K363GS5B**  
 Outdoor Unit **SAP-C363G5A**

	Indoor Unit	Outdoor Unit		Complete Unit
		Fan Motor	Fan Motor Compressor	
Performance at	220 / 240V Single phase <b>50Hz</b>			
Rating Conditions	Running Amps. A	0.39 / 0.40	1.51 / 1.56	13.40 / 15.34
	Power Input kW	0.085 / 0.095	0.330 / 0.370	2.585 / 2.755
Full Load Conditions	Running Amps. A	0.39 / 0.40	1.51 / 1.56	18.40 / 19.24
	Power Input kW	0.085 / 0.095	0.330 / 0.370	3.715 / 3.895
				4.13 / 4.36

Rating Conditions : Indoor Air Temperature 27°C D.B. / 19°C W.B.

Outdoor Air Temperature 35°C D.B.

Full Load Conditions : Indoor Air Temperature 32°C D.B. / 23°C W.B.

Outdoor Air Temperature 52°C D.B.

Indoor Unit **SAP-K363GS6B**  
 Outdoor Unit **SAP-C363G6**

	Indoor Unit	Outdoor Unit		Complete Unit
		Fan Motor	Fan Motor Compressor	
Performance at	220V Single phase <b>60Hz</b>			
Rating Conditions	Running Amps. A	0.50	1.03	18.57
	Power Input kW	0.100	0.232	3.818
SSA 385, 386 Conditions	Running Amps.	0.50	1.03	21.17
	Power Input	0.100	0.232	4.368
Full Load Conditions	Running Amps. A	0.50	1.03	24.57
	Power Input kW	0.100	0.232	5.118
				5.45

Rating Conditions : Indoor Air Temperature 27°C D.B. / 19°C W.B.

Outdoor Air Temperature 35°C D.B.

SSA 385, 386 Conditions (Saudi standard)

: Indoor Air Temperature 29°C D.B. / 19°C W.B.

Outdoor Air Temperature 46°C D.B. / 24°C W.B.

Full Load Conditions : Indoor Air Temperature 35°C D.B. / 25°C W.B.

Outdoor Air Temperature 50°C D.B.

## 6-2. ELECTRIC WIRING DIAGRAMS

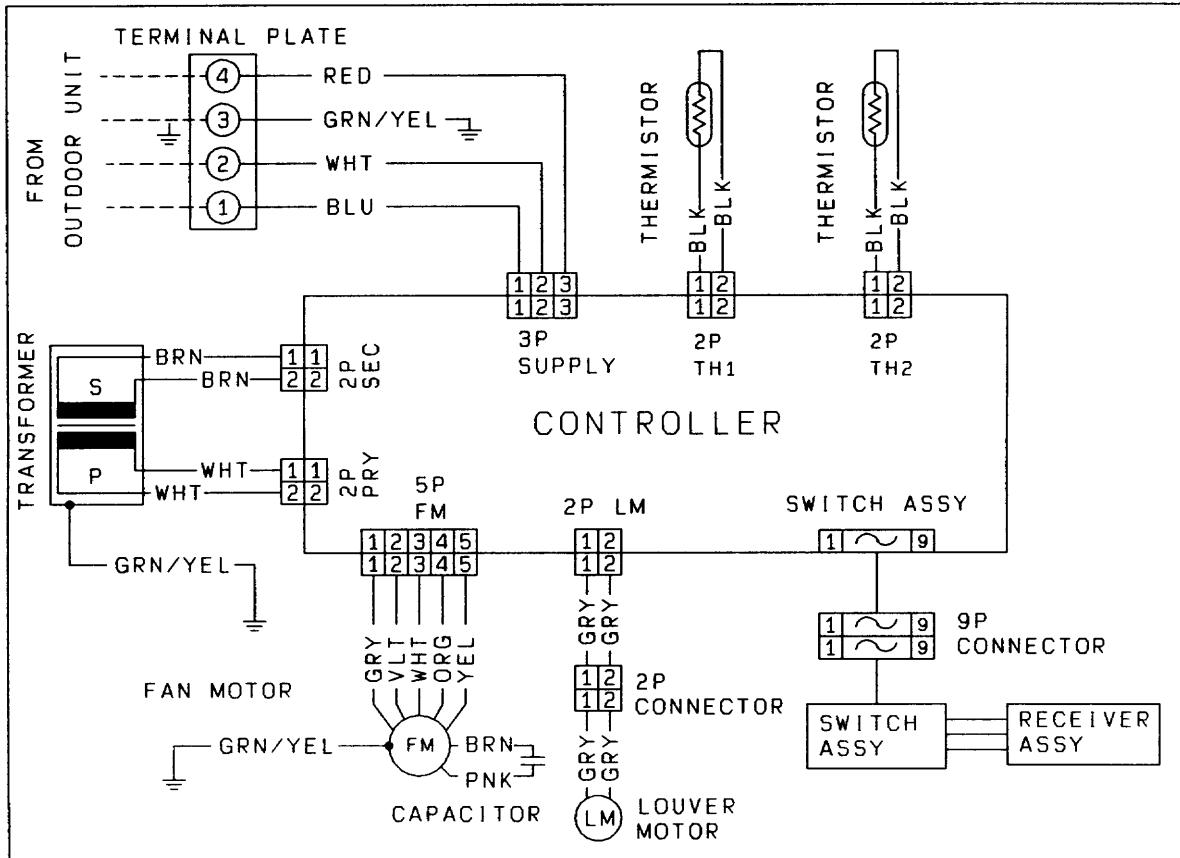
Indoor Unit

SAP-K363GS5B  
SAP-K363GS6B



**WARNING**

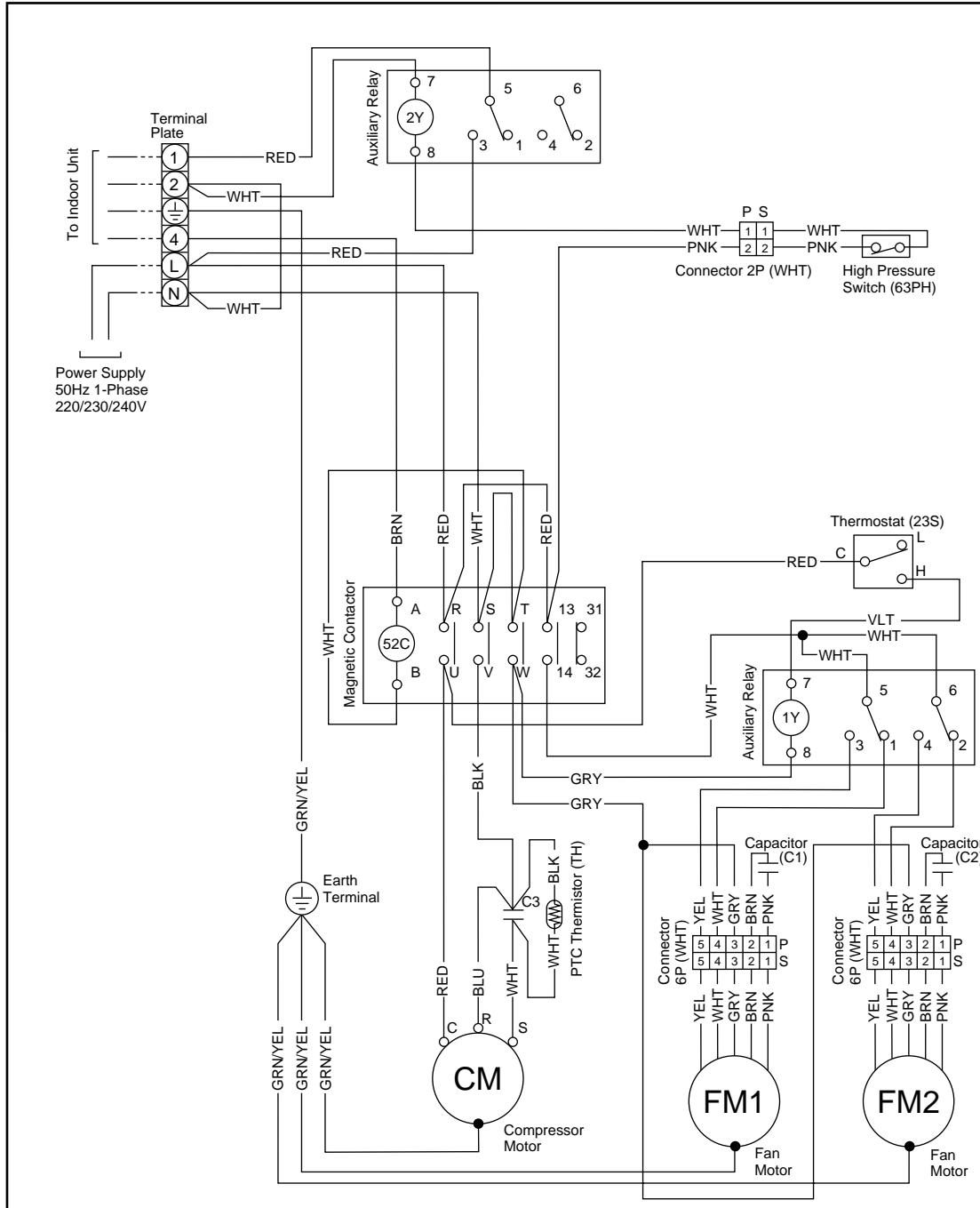
*To avoid electrical shock hazard, be sure to disconnect power before checking, servicing and/or cleaning any electrical parts.*



851-2-5252-128-XX-1



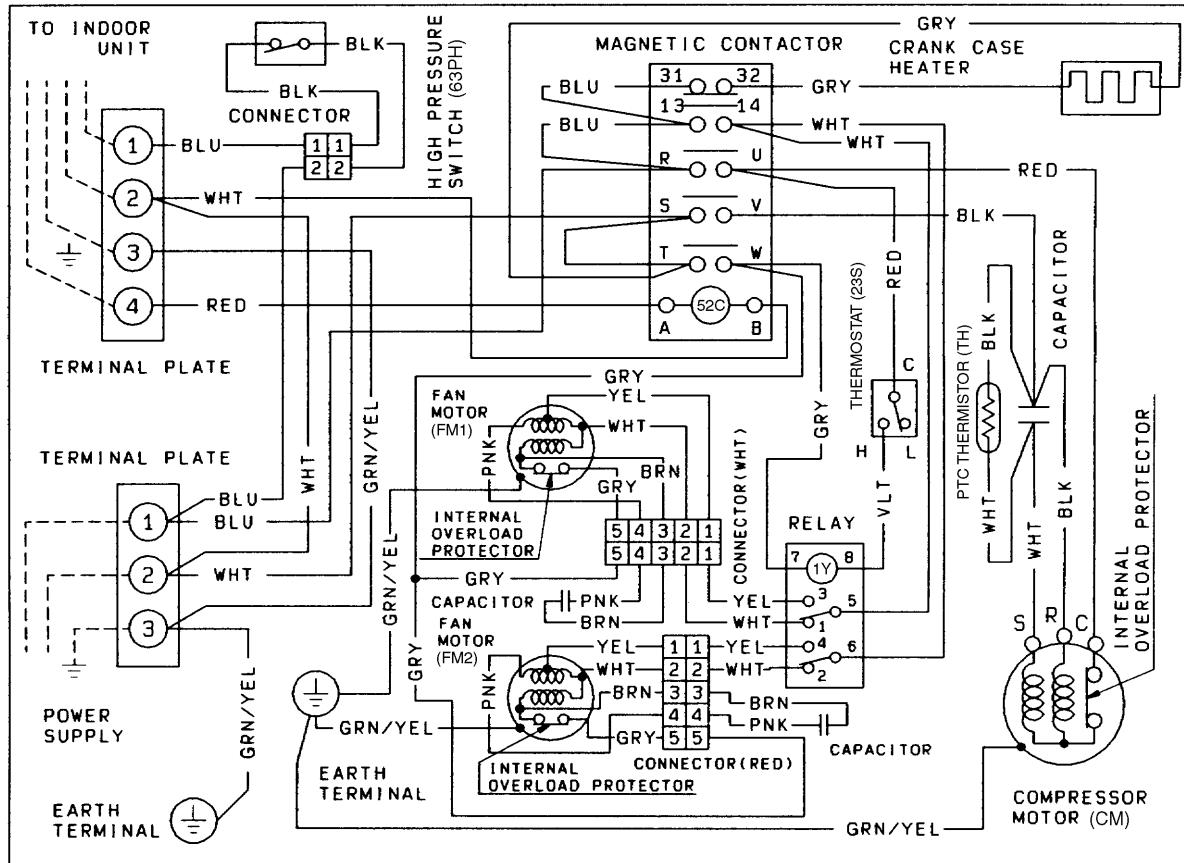
**To avoid electrical shock hazard, be sure to disconnect power before checking, servicing and/or cleaning any electrical parts.**



854-2-5268-463-00-3

**WARNING**

*To avoid electrical shock hazard, be sure to disconnect power before checking, servicing and/or cleaning any electrical parts.*



851-2-5251-548-XX-2

## 7. INSTALLATION INSTRUCTIONS

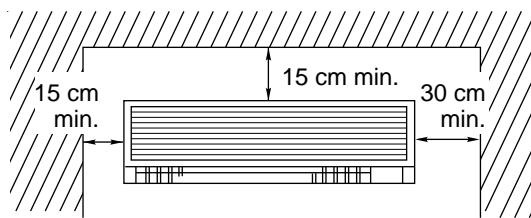
### 7-1. Installation Site Selection

Indoor Unit



**WARNING**

To prevent abnormal heat generation and the possibility of fire, don't place obstacles, enclosures and grills in front of or surrounding the air conditioner in a way that may block air flow.



Front View  
Fig.1

#### AVOID:

- areas where leakage of flammable gas may be expected.
- places where large amounts of oil mist exist.
- direct sunlight.
- nearby heat sources that may affect performance of the unit.

#### DO:

- select an appropriate position from which every corner of the room can be uniformly air-conditioned. (High on a wall is best)
- select a location that will hold the weight of the unit.
- select a location where tubing and drain pipe have the shortest run to the outside. (Fig. 2b)
- allow room for operation and maintenance as well as unrestricted air flow around the unit. (Fig. 1)
- install the unit within the maximum elevation difference (H) above or below the outdoor unit and within a total tubing length (L) from the outdoor unit as detailed Table 1 and Fig. 2a.

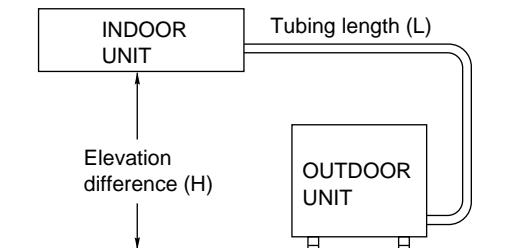
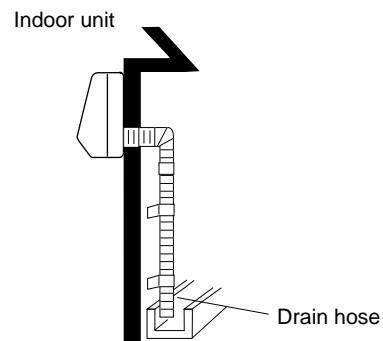


Fig. 2a



Outside drainage

Fig. 2b

Table 1

Model	Max. Allowable Tubing Length at Shipment (m)	Limit of Tubing Length (L) (m)	Limit of Elevation Difference (H) (m)	Required Amount of Additional Refrigerant (g/m)*
C363	15	40	15	75

\* If total tubing length becomes 15 to 40m(max.), charge additional refrigerant (R22) by 75 g/m.  
No additional charge of compressor oil is necessary.

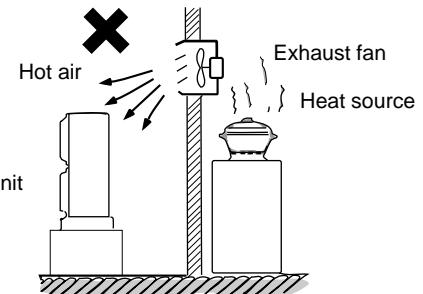
## Outdoor Unit

### AVOID:

- heat sources, exhaust fans, etc. (Fig. 3)
- damp, humid or uneven locations.

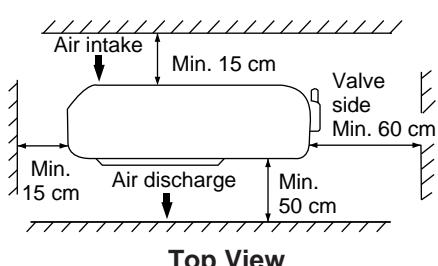
### DO:

- choose a place as cool as possible.
- choose a place that is well ventilated.
- allow enough room around the unit for air intake/exhaust and possible maintenance. (Figs. 4a and 4b)
- provide a solid base (concrete block, 10 X 40 cm beams or equal), a minimum of 10 cm above ground level to reduce humidity and protect the unit against possible water damage and decreased service life. (Figs. 5)
- use lug bolts or equal to bolt down unit, reducing vibration and noise.

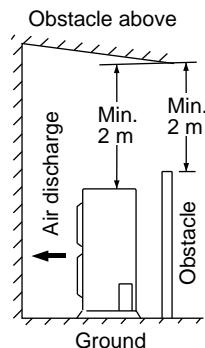


**Fig. 3**

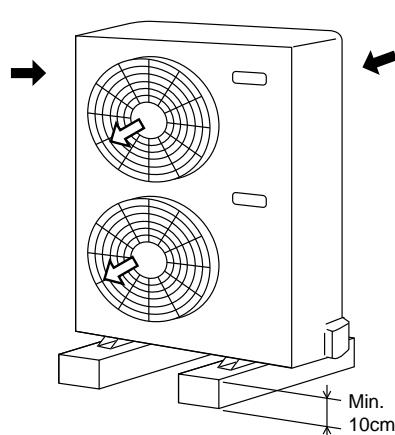
### Required space around the unit.



**Fig. 4a**



**Fig. 4b**



**Fig. 5**

## 7-2. Remote Control Unit Installation Position

The remote control unit can be operated from either a non-fixed position or a wall-mounted position.

To ensure that the air conditioner operates correctly, do not install the remote control unit in the following places:

- In direct sunlight
- Behind a curtain or other place where it is covered
- More than 8 m away from the air conditioner
- In the path of the air conditioner's airstream
- Where it may become extremely hot or cold
- Where it may be subject to electrical or magnetic interference

### 6-1. When attaching to wall (Fig.6a)

- 1) Confirm the indoor unit beeps when the ON/OFF button is pressed at the wall location where the remote control unit is to be attached, then attach the holder to the wall.
- 2) When taking out the remote control unit, pull it from the holder.

#### When using the remote control unit

- Point the transmission portion of the remote control unit at the receiver area of the indoor unit when operating the remote control unit, and during operation of the air conditioner.
- Do not place objects which may block the transmitted signals between the receiver and the remote control unit.

#### When mounting the remote control unit to prevent theft (Fig.6b)

- 1) Attach the holder to the wall with one of the screws (using only the hole in the top of the holder).
- 2) Remove the cover of the remote control unit and take out the batteries. Next, place the remote control unit in the holder.
- 3) Fasten both the remote control unit and holder to the wall with the remaining screw (using the hole in the bottom of the holder).
- 4) Install the batteries in the remote control unit and close the cover.

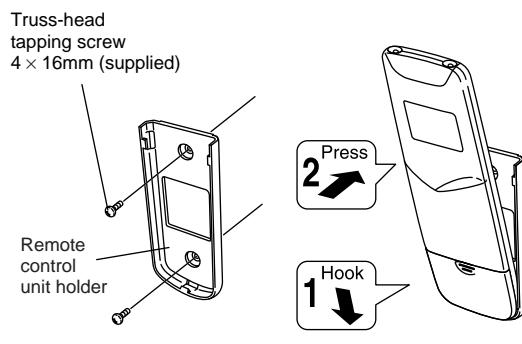


Fig.6a

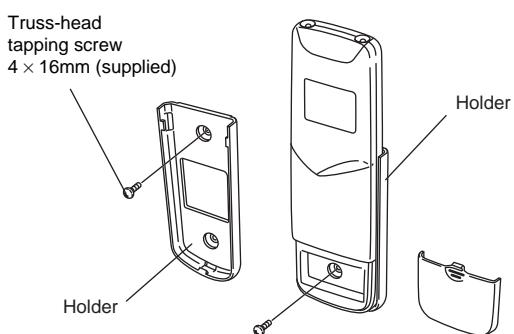


Fig.6b

### 7-3. Recommended Wire Length and Size

Regulations on wiring diameter differ from locality to locality. For field wiring requirements, please refer to your local electrical codes. Carefully observe these regulations when carrying out the installation.

Table 2 lists recommended wire lengths and cross section area for power supply systems.

**Table 2**

Model	Cross Sectional Area (mm <sup>2</sup> )	(A) Power Supply Wiring Length (m)			(B) Power Line (m)	Fuse or Circuit Capacity
		5.5 (#10)	8 (#8)	14 (#6)		
C363G5A	20	31	54	15	2 (#14)	40A
C363G6	22	33	57	15	2 (#14)	30A

**NOTE**

Refer to the WIRING SYSTEM DIAGRAM for the meaning of "A" and "B" in Table 2.

# ..... AWG (American Wire Gauge)



**WARNING**

- Be sure to comply with local codes on running the wire from the indoor unit to the outdoor unit (size of wire and wiring method, etc.).
- Each wire must be firmly connected.
- No wire should be allowed to touch refrigerant tubing, the compressor, or any moving part.



**WARNING**

To avoid the risk of electric shock, each air conditioner unit must be grounded.

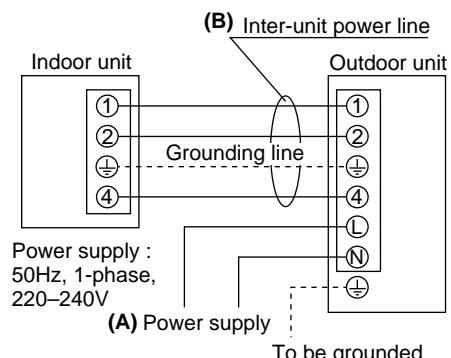


**CAUTION**

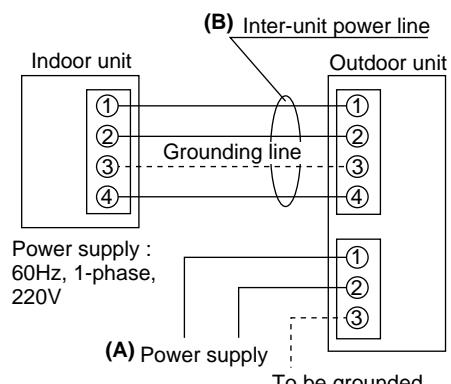
- Be sure to connect the power supply line to the outdoor unit as shown in the wiring diagram. The indoor unit draws its power from the outdoor unit.

**Wiring System Diagram**

**Model: SAP-C363G5A**



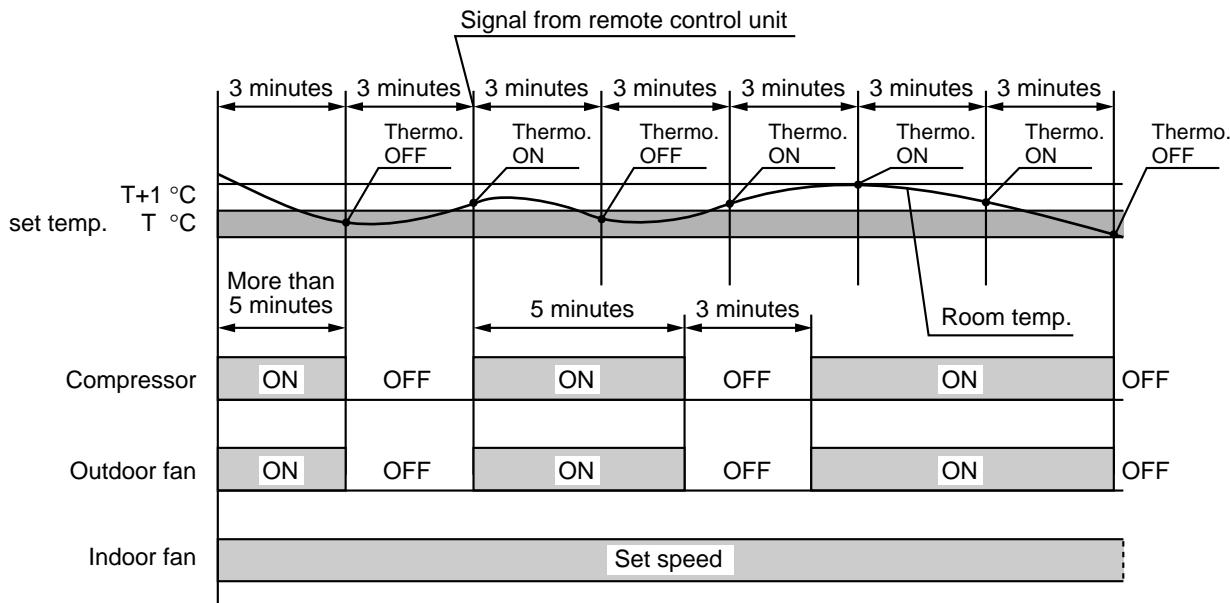
**Model: SAP-C363G6**



## 8. FUNCTION

### 8-1. Room Temperature Control

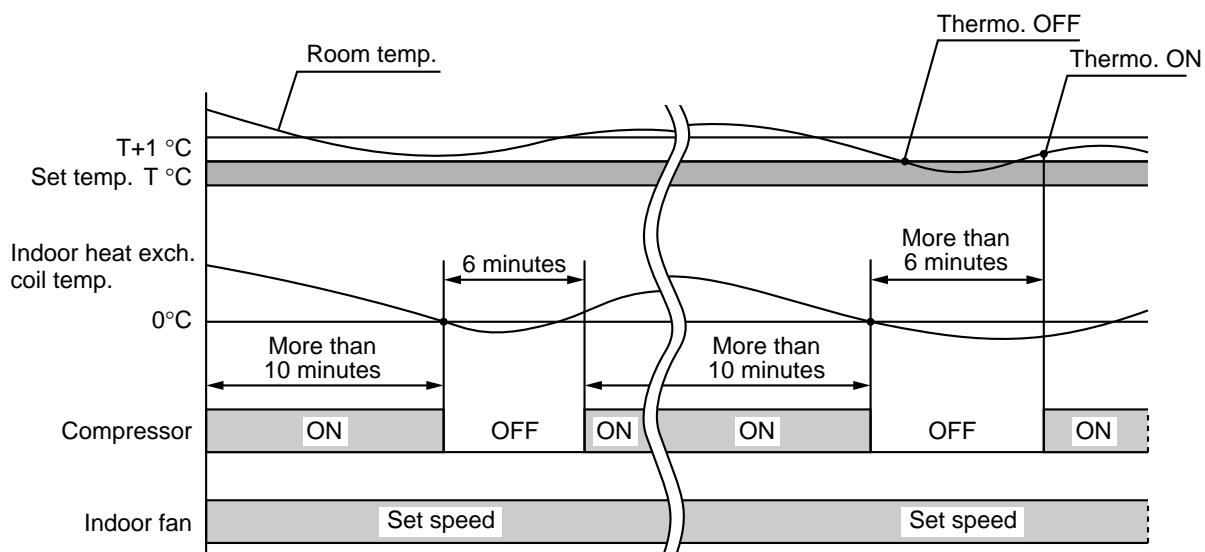
- Room temperature control is obtained by cycling the compressor ON and OFF under control of the room temperature sensor in the remote control unit.
- The room temperature (and other information) is transmitted every 3 minutes by the remote control unit to the controller in the indoor unit.



- 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 after 5 minutes or more 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

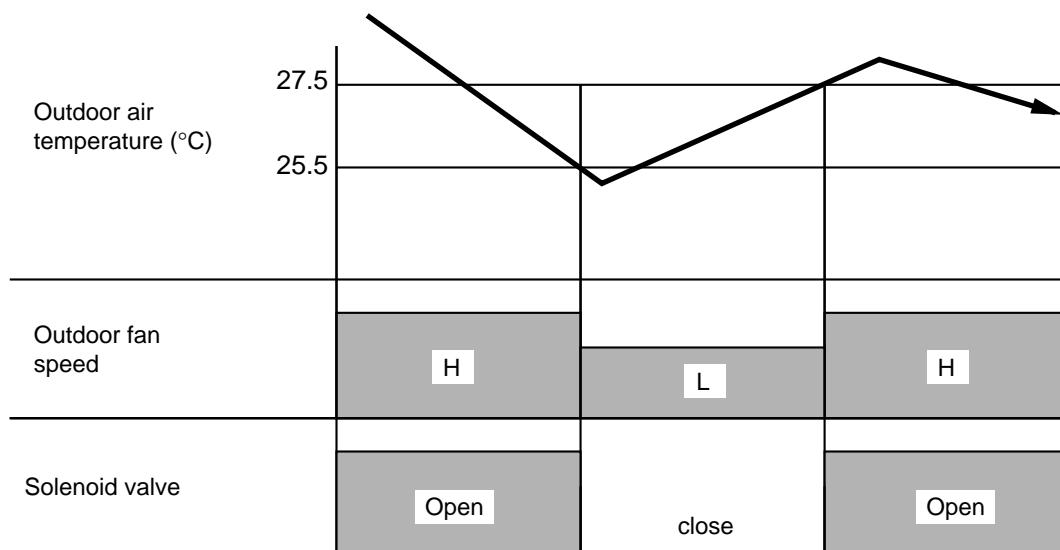
## 8-2. Freeze Prevention

- This function prevents freezing of the indoor heat exchange coil.
- When the compressor has been running for 10 minutes or more and the temperature of the indoor heat exchange coil falls below  $-1^{\circ}\text{C}$ , the control circuit stops the compressor for at least 6 minutes. The compressor does not start again until the temperature rises above  $8^{\circ}\text{C}$  or 6 minutes has elapsed.



## 8-3. Outdoor Fan Speed Control

- To optimize performance of the air conditioner, the outdoor fan speed is switched automatically according to the outdoor temperature.
- If the outdoor air temperature falls below  $25.5^{\circ}\text{C}$ , the fan speed switches to LOW.
- If the outdoor air temperature rises above  $27.5^{\circ}\text{C}$ , the fan speed switches to HIGH.



# 9. TROUBLESHOOTING

## 9-1. Check before and after troubleshooting

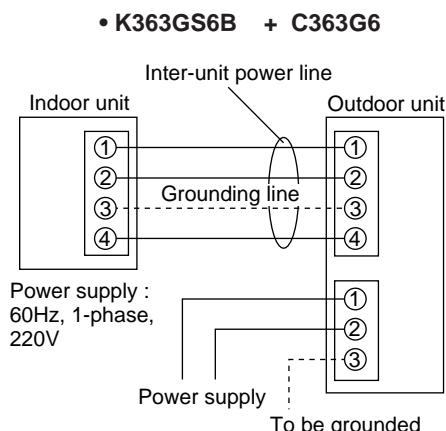
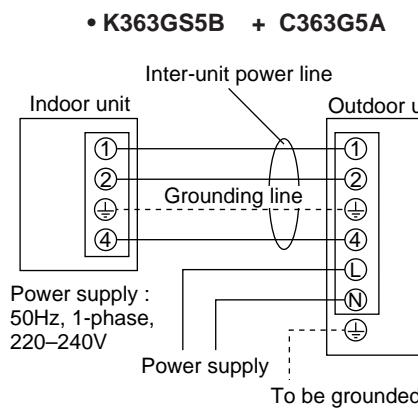


### WARNING

Hazardous voltage can cause ELECTRIC SHOCK or DEATH. Disconnect power or turn off circuit breaker before you start checking or servicing.

### 9-1-1. Check power supply wiring.

- Check that power supply wires are connected to correct terminals on the terminal plate in the outdoor unit.



### 9-1-2. Check inter-unit wiring.

- Check that inter-unit wiring is correctly connected to the indoor unit from the outdoor unit.

### 9-1-3. Check power supply.

- Check that voltage is in specified range ( $\pm 10\%$  of the rating).
- Check that power is being supplied.

### 9-1-4. Check lead wires and connectors in indoor and outdoor units.

- Check that coating of lead wires is not damaged.
- Check that lead wires and connectors are firmly connected.
- Check that wiring is correct.

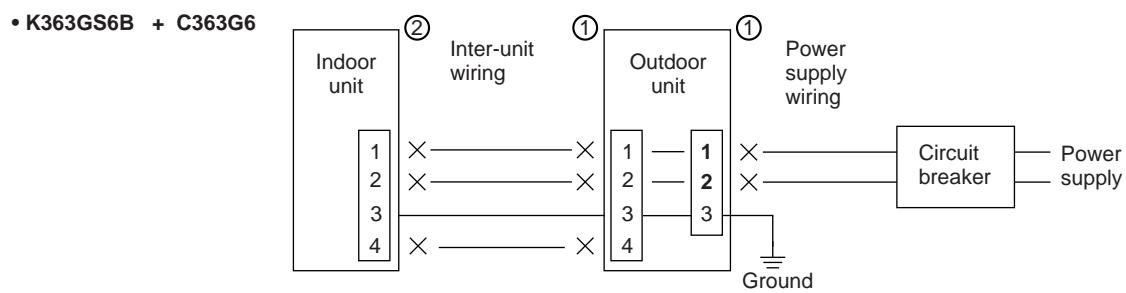
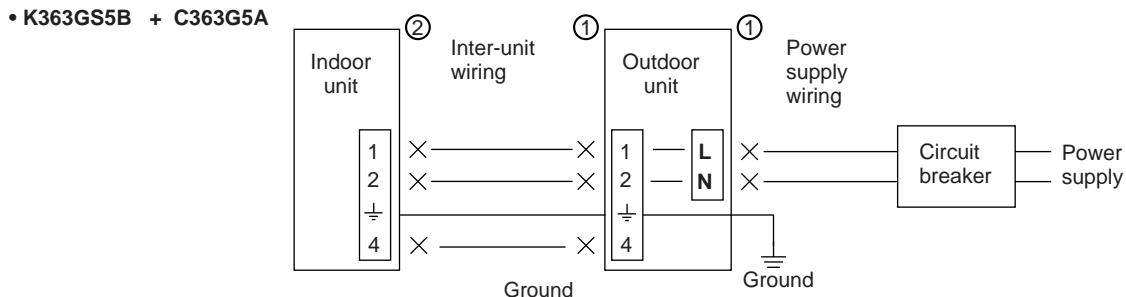
## 9-2. Air conditioner does not operate.

### 9-2-1. Circuit breaker trips (or fuse blows).

#### A. When the circuit breaker is set to ON, it is tripped soon. (Resetting is not possible.)

- There is a possibility of ground fault.
- Check insulation resistance.

If resistance value is  $2M\Omega$  or less, insulation is defective ("NO").



#### WARNING

\* Set circuit breaker to OFF.

- ① Remove both power supply wires and inter-unit wires from terminal plate in outdoor unit.  
• Measure insulation resistance of outdoor unit.

NO

Insulation of outdoor unit is defective.

- Measure insulation resistance of electrical parts in outdoor unit.

- ② Remove inter-unit wires from terminal plate in indoor unit.  
• Measure insulation resistance of indoor unit.

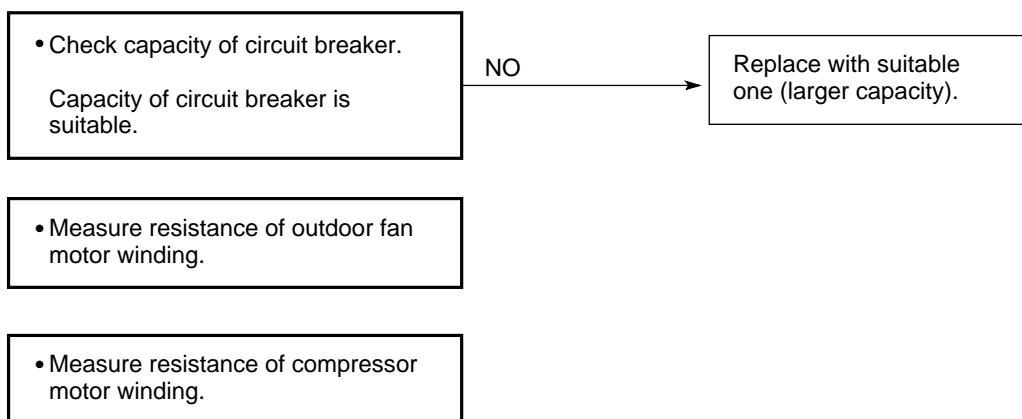
NO

Insulation of indoor unit is defective.

- Measure insulation resistance of electrical parts in indoor unit.

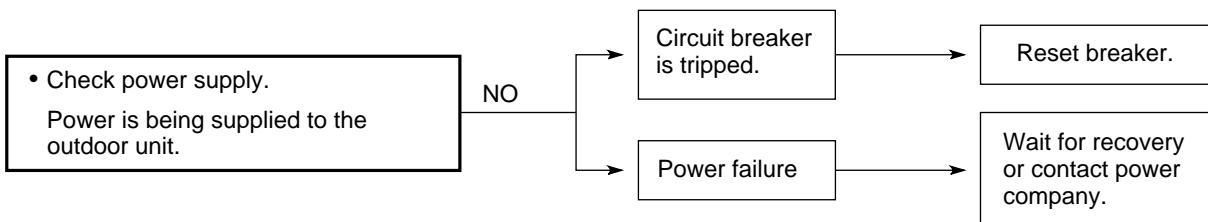
**B. Circuit breaker trips in several minutes after turning the air conditioner on.**

- There is a possibility of short circuit.

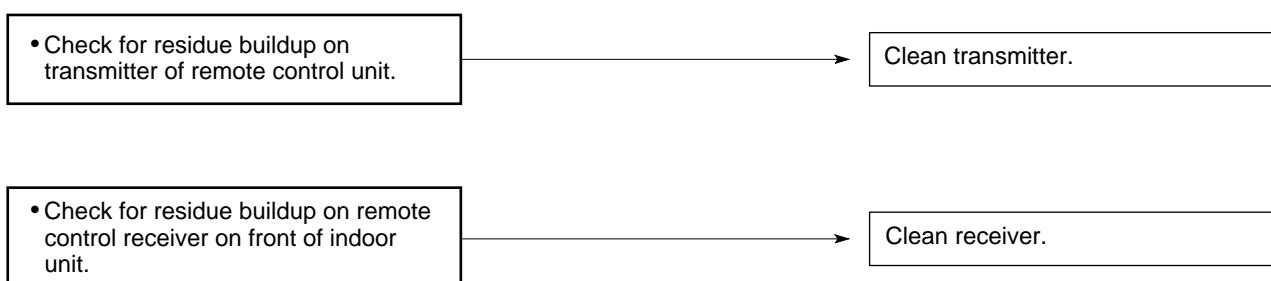
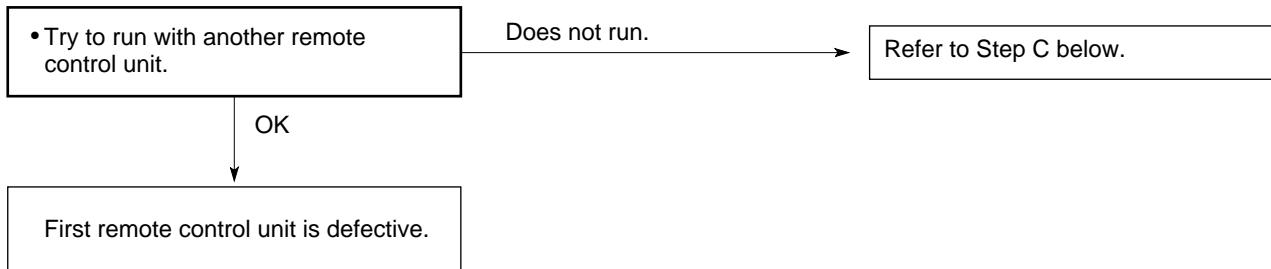


## 9-2-2. Neither indoor nor outdoor unit runs.

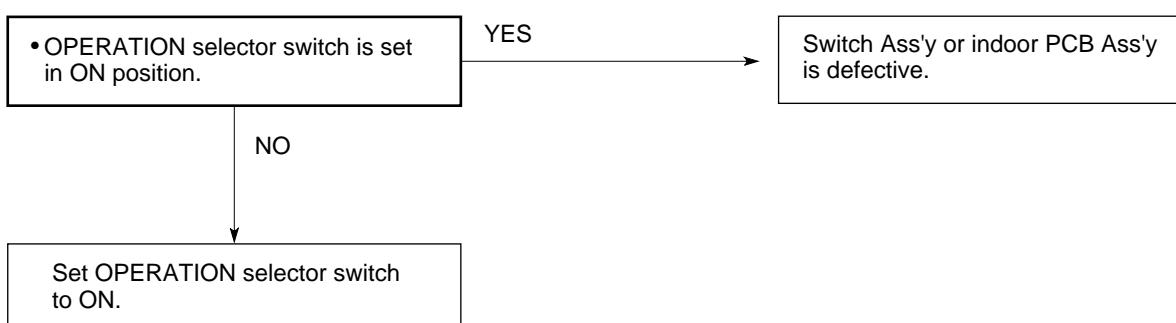
### A. Power is not supplied.



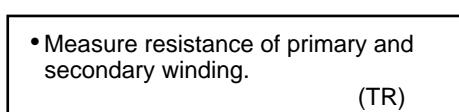
### B. Check remote control unit.



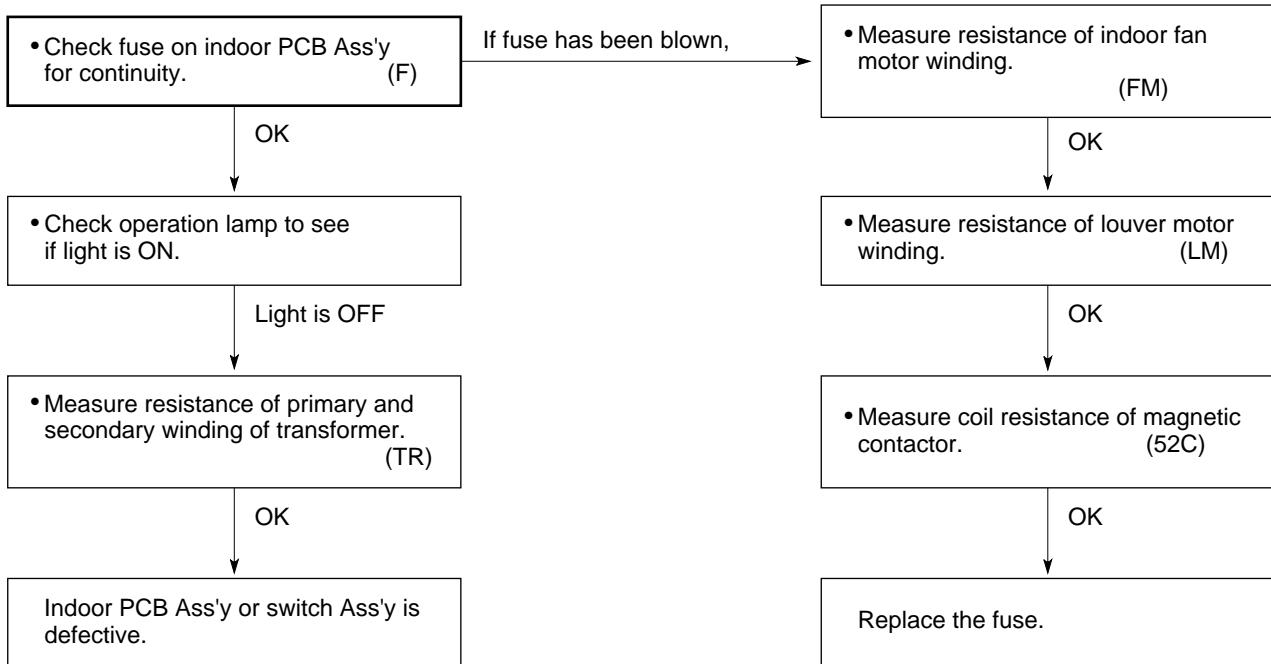
### C. Check "OPERATION selector" switch in the indoor unit.



### D. Check transformer in indoor unit.



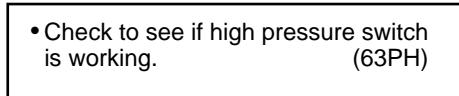
#### E. Check fuse on the indoor PCB Ass'y.



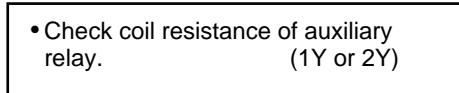
#### F. Check TIMER on the remote control unit.



#### G. Check high pressure switch in outdoor unit.

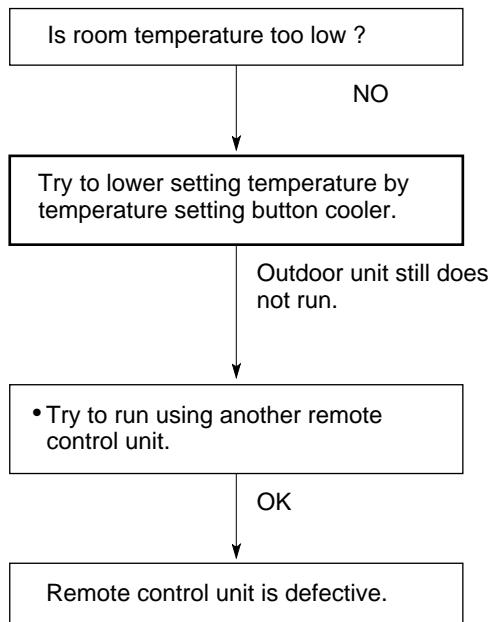


#### H. Check auxiliary relay in outdoor unit.

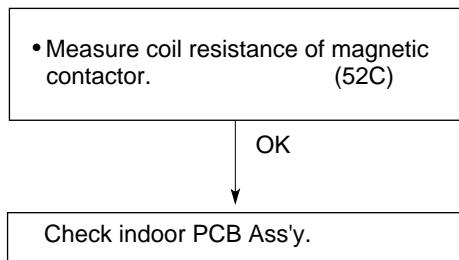


### 9-2-3. Only outdoor unit does not run.

#### A. Check setting temperature.

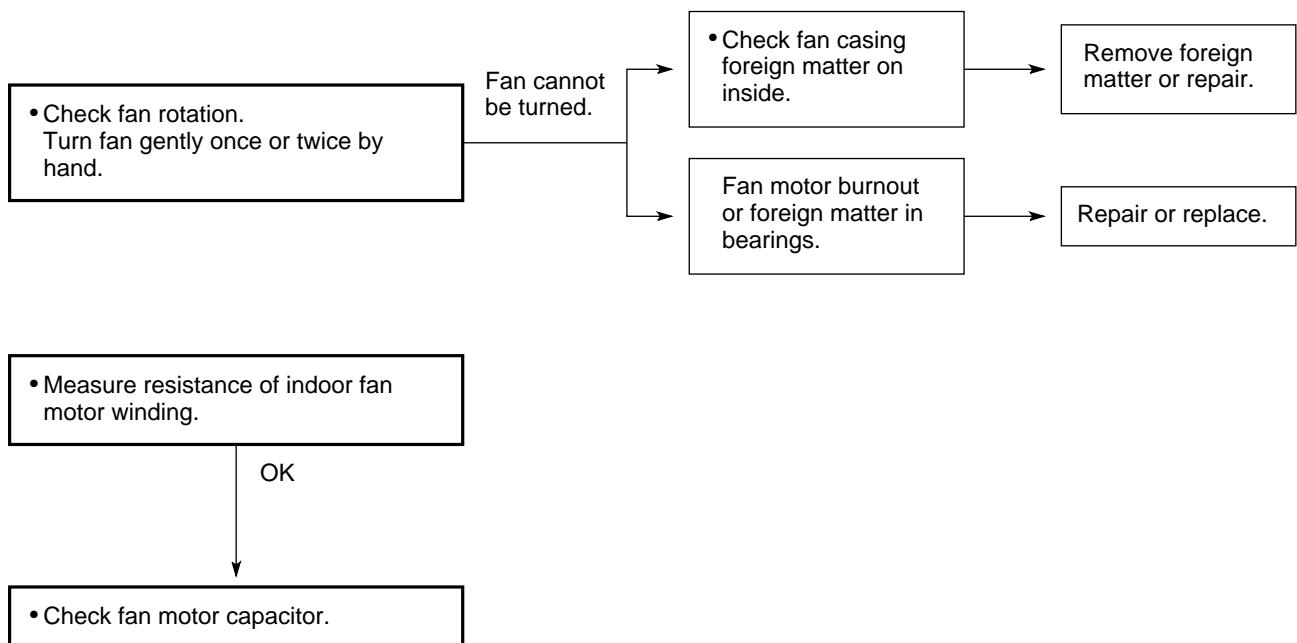


#### B. Check magnetic contactor in outdoor unit.

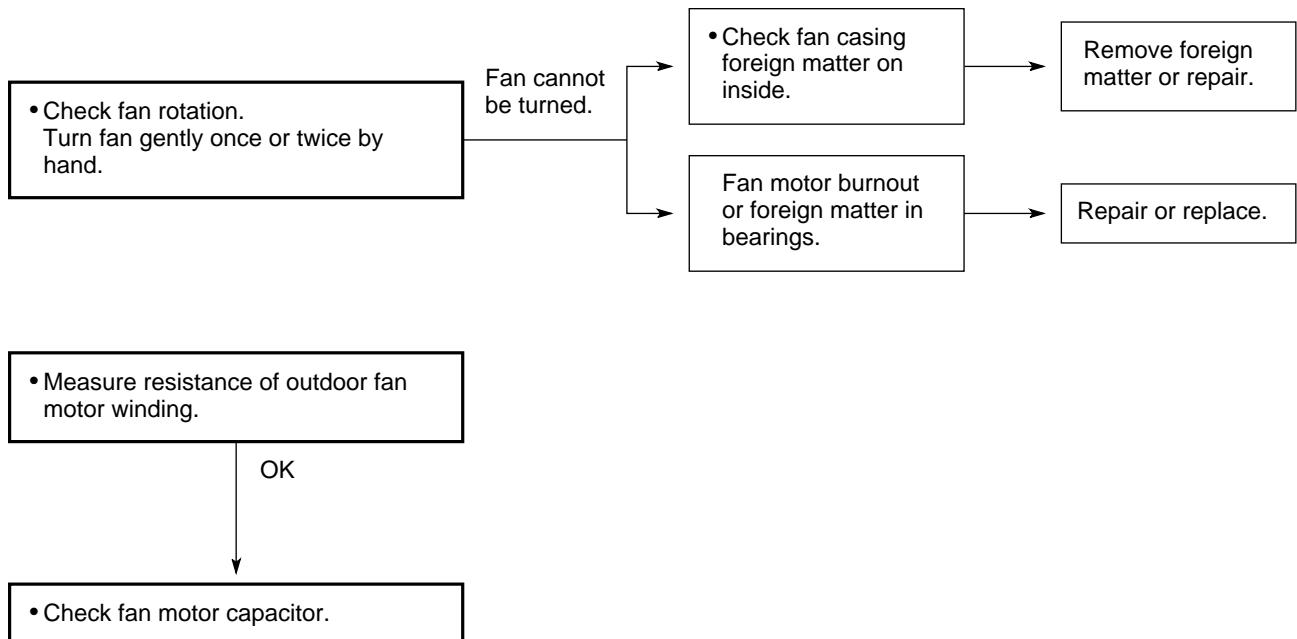


### 9-3. Some part of air conditioner does not operate.

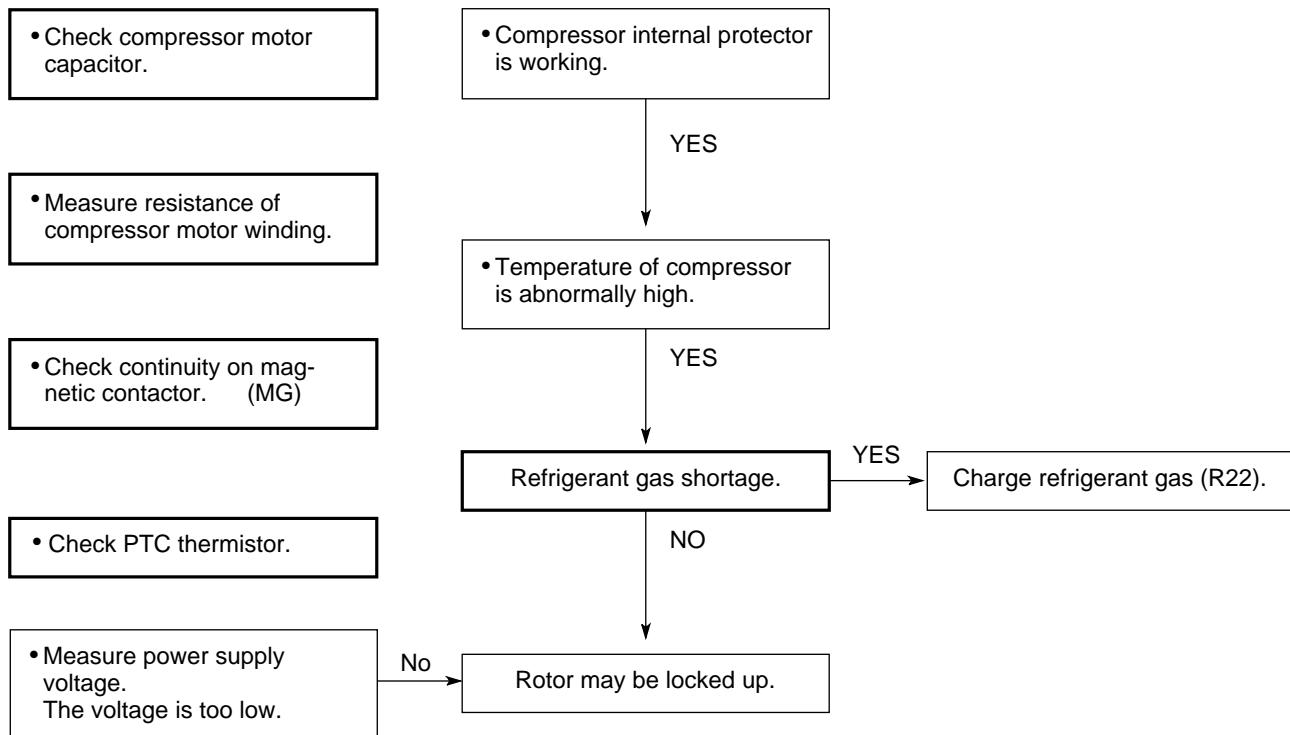
#### 9-3-1. Only indoor fan does not run.



#### 9-3-2. Only outdoor fan does not run.



### 9-3-3. Only compressor does not run.



### 9-3-4. Only louver motor does not run.

- Measure resistance of louver motor winding.

### 9-3-5. Function of outdoor fan speed control does not work properly.

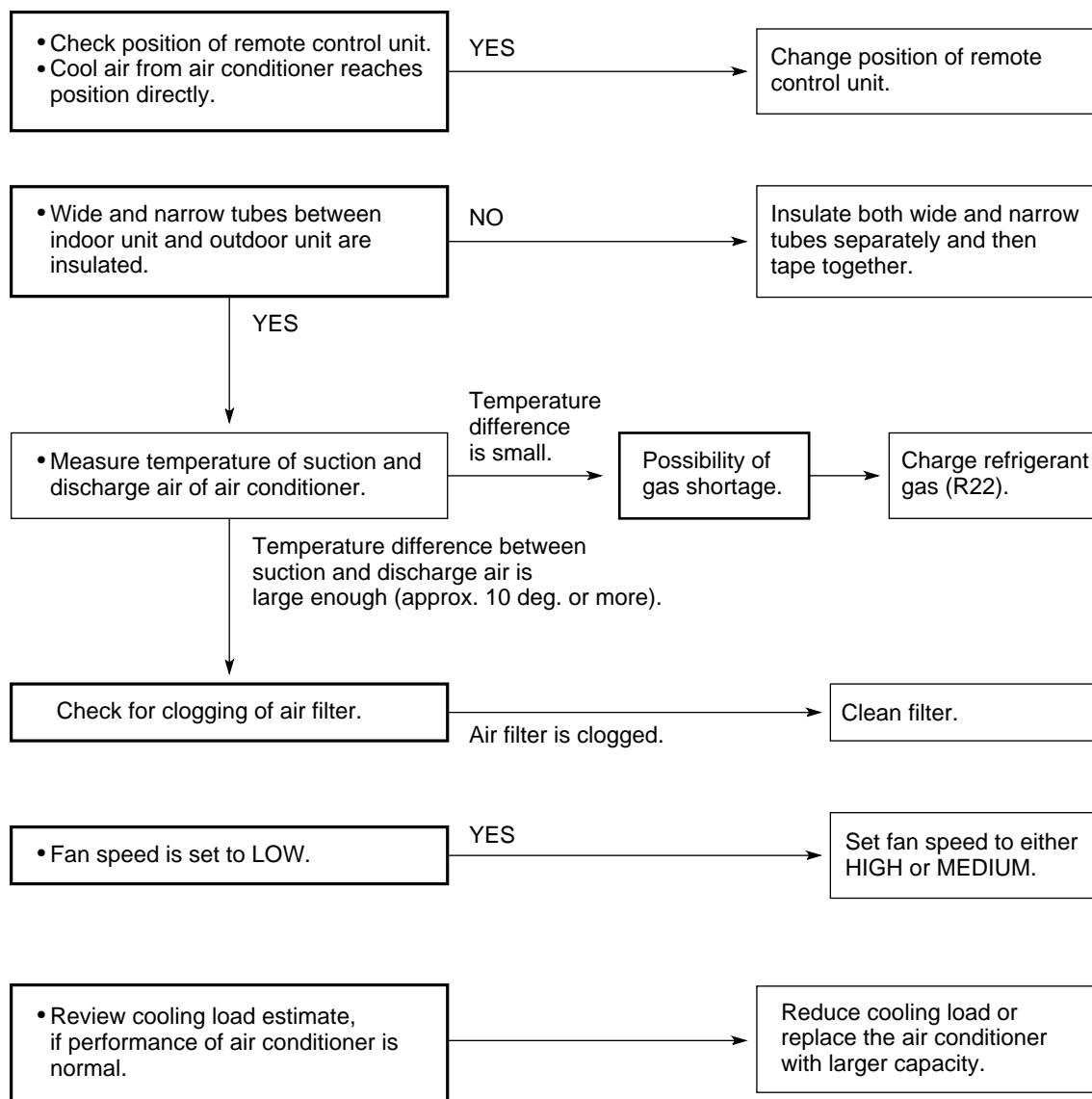
- Check thermostat in outdoor unit. (23S)

- Measure coil resistance of auxiliary relay for outdoor fan motor. (1Y)

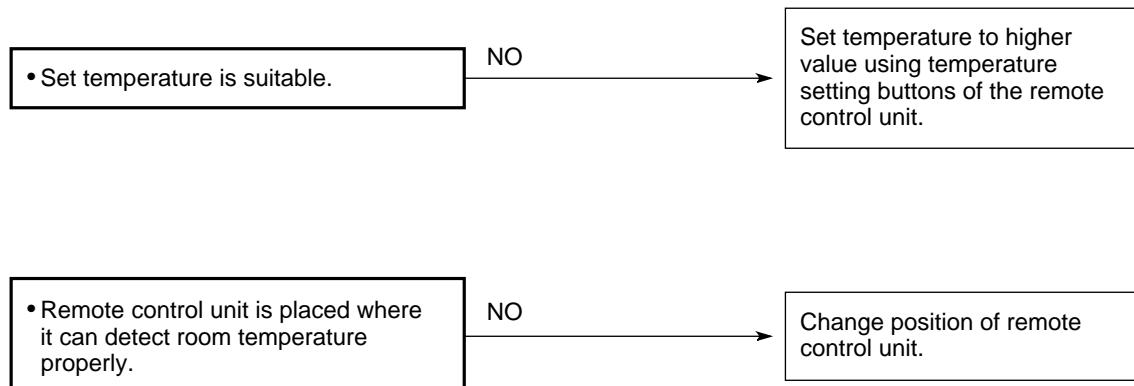
Refer to "8-3. Outdoor Fan Speed Control".

## 9-4. Air conditioner operates, but abnormalities are observed.

### 9-4-1. Poor cooling.



### 9-4-2. Excessive cooling.



## 9-5. If a sensor is defective.

### 9-5-1. Indoor coil temp. thermistor (TH1) is defective.

#### A. Open

When thermistor opens, the air conditioner will be in the following conditions as the controller tries to detect extremely low indoor coil temperature.

In Cooling mode: Function of freeze prevention continues to work. That is, the controller turns both compressor and outdoor fan motor periodically ON and OFF for several minutes.  
(Refer to "8-3. Freeze Prevention")

#### B. Short

When thermistor is short, the air conditioner will be in the following conditions as the controller tries to detect extremely high indoor coil temperature.

In Cooling mode: Function of freeze prevention will not work even when the frost builds up on indoor heat exchanger coil

### 9-5-2. Room temp. thermistor (TH2) is defective.

#### A. Open

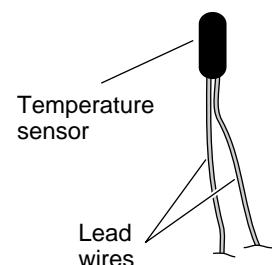
When thermistor opens, the air conditioner will be in the following conditions as the controller tries to detect extremely low room temperature.

In Cooling mode: The air conditioner soon stops and will not start again. (Thermo.OFF) Neither outdoor fan nor compressor runs.

#### B. Short

When thermistor is short, the air conditioner will be in the following conditions as the controller tries to detect extremely high room temperature.

In Cooling mode: The air conditioner continues to operate (Thermo.ON). Both the outdoor fan and compressor do not stop. As a result, the room becomes too cold.



#### NOTE

##### Definition of Open or Short Circuit of Sensor (Thermistor)

##### Thermistor Structure

Open ... A lead wire is broken or disconnected or the circuit inside the temperature sensor is open .

Short ... The protective cover of a lead wire has been damaged, and the exposed wire is touching another metal part, or both lead wires have become exposed and are touching each other. Alternatively, the circuit inside the temperature sensor is closed.

# 10. CHECKING ELECTRICAL COMPONENTS

## 10-1. Measurement of Insulation Resistance

- The insulation is in good condition if the resistance exceeds  $2M\Omega$ .

### 10-1-1. Power Supply Wires

Clamp the ground wire of the power supply wires with the lead clip of the insulation resistance tester and measure the resistance by placing a probe on either of the power wires. (Fig. 1)

Then measure the resistance between the ground wire and the other power wire. (Fig. 1)

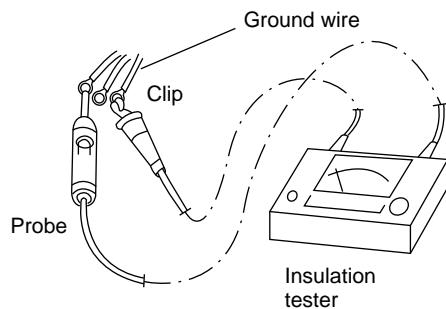


Fig. 1

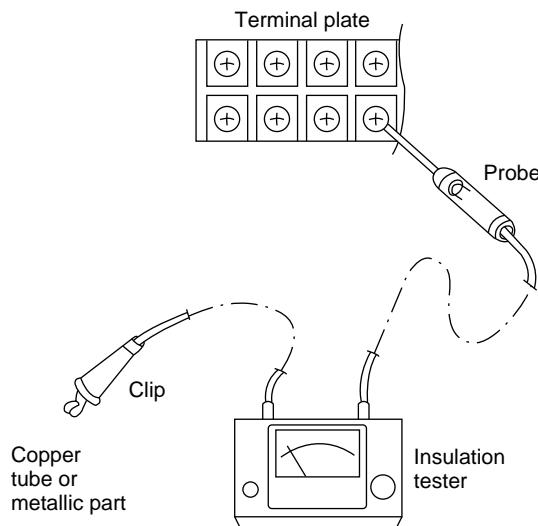


Fig. 2

### 10-1-2. Indoor Unit

Clamp an aluminum 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 except where the ground line is connected on the terminal plate. (Fig. 2)

### 10-1-3. Outdoor 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)

### 10-1-4. 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. (Figs. 3 to 4)

Refer to Electric Wiring Diagram.

#### NOTE

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

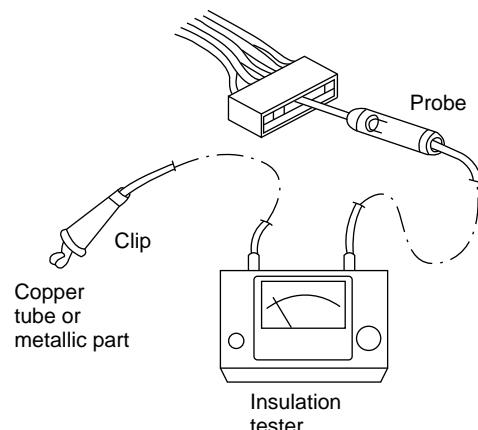


Fig. 3

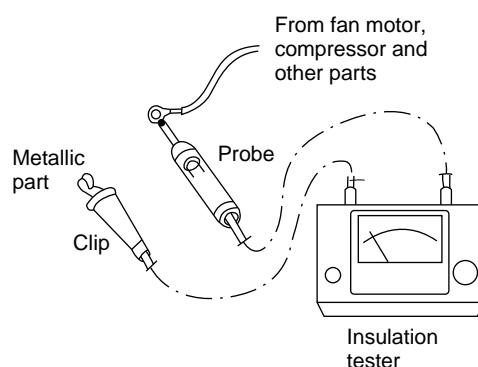


Fig. 4

## 10-2. Checking continuity of Fuse on PCB Ass'y

- Check for continuity using a multimeter as shown in Fig. 5.

### NOTE

#### Method Used to Replace Fuse on PCB Ass'y

- Remove the PCB Ass'y from the electrical component box.
- Pull the fuse from the metal clasp using pliers while heating the soldered leads on the back side of the PCB Ass'y with a soldering iron (30W or 60W). (Fig. 6)
- Remove the fuse ends one at a time. For replacement, insert a fuse of the same rating and solder it. (Allow time to radiate heat during soldering so that the fuse does not melt.)



**CAUTION**

When replacing the fuse, be sure not to break down the varistor.

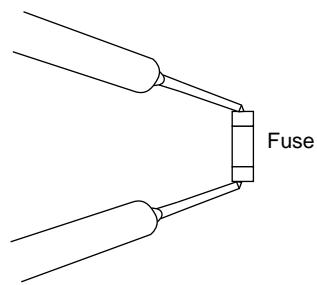


Fig. 5

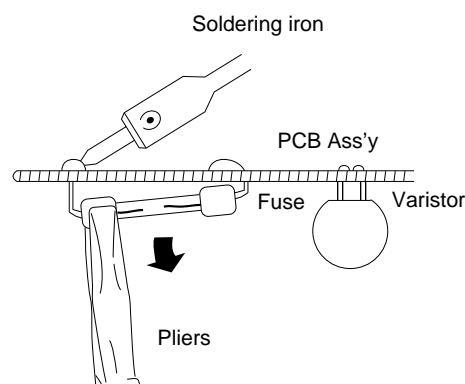


Fig. 6

## 10-3. 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.

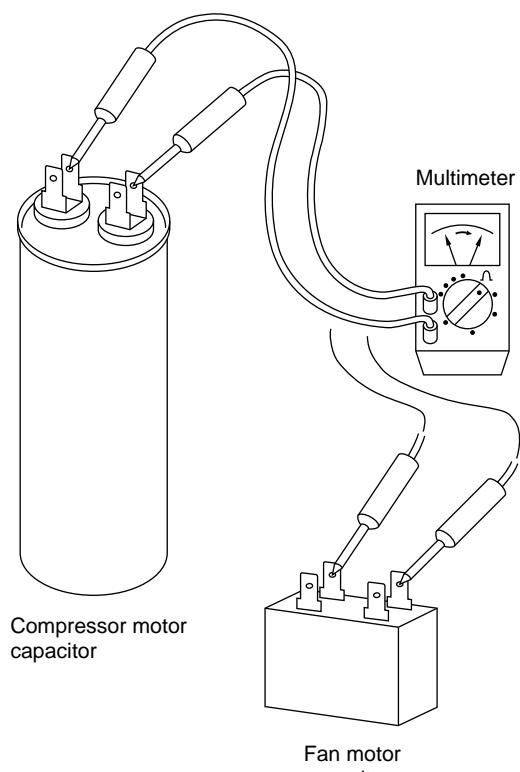


Fig. 7

## 10-4. Checking Thermostat (for outdoor fan speed control)

Check continuity between terminals on the Thermostat

Temperature	Pair of terminals	
	C-H	C-L
above 27.5°C	NO	YES
below 25.5°C	YES	NO

### NOTE

YES .... Continuity

NO ..... Discontinuity

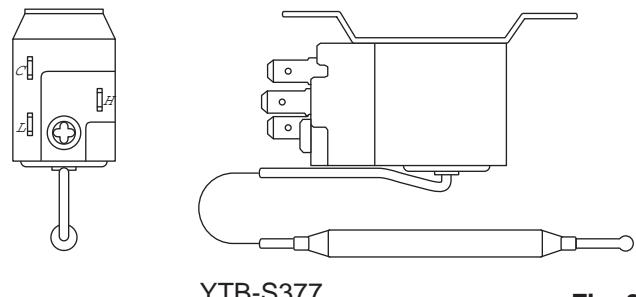


Fig. 8

## 10-5. Checking High Pressure Switch

Check continuity between poles of the connector.

When the high pressure is lower than 24kg/cm, there should be continuity.

When the high pressure is exceeds 30kg/cm, there should be no continuity.



ACB-1TB07

Fig. 9

## 10-6. Checking Thermistor

Unplug the 2P connector connected to PCB Ass'y and measure the resistance of the thermistor with a tester, which is set in the X1 kΩ range.

### ● Indoor coil sensor

(PBC-41E)

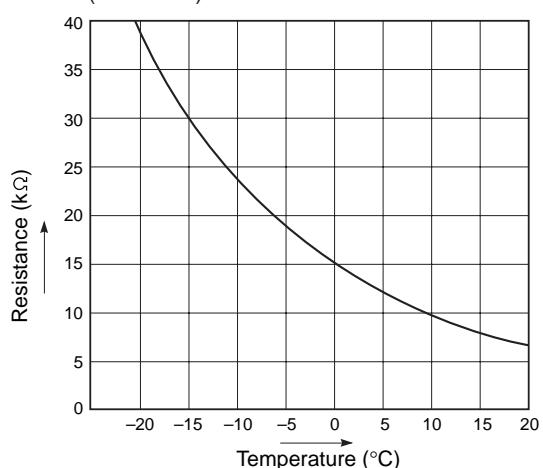


Fig. 10

### ● Room sensor

(KTEC-35)

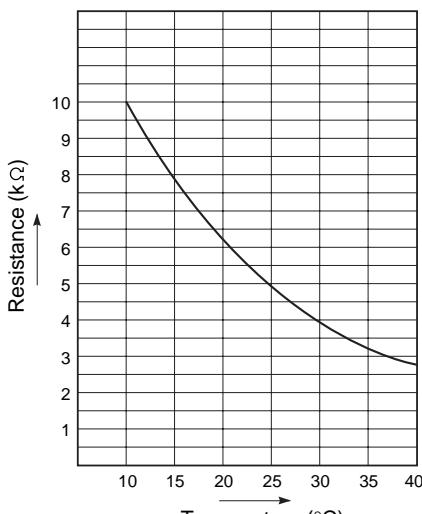


Fig. 11

# 11. MAINTENANCE

## 11-1. Changing Address of Remote Control Unit in Indoor Unit

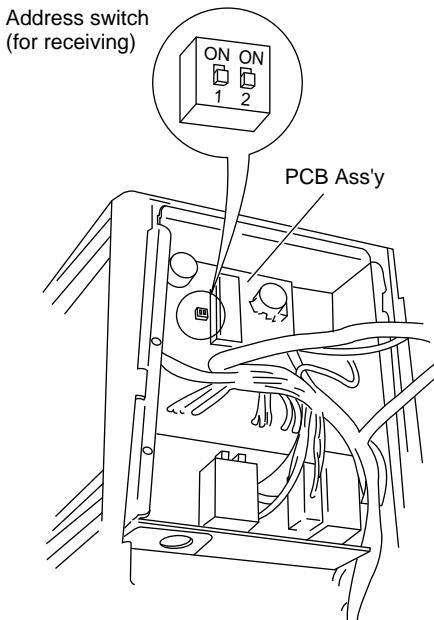
If you are installing more than 1 indoor unit (up to 2) in the same room, it is necessary for you to assign each unit its own address, so each can be operated by its own separate remote control unit. You assign the addresses by matching the switch positions of each indoor unit with the switch positions of its remote control unit.

Following table shows the position you can use up to 2 indoor units installed in the same room.

Unit No.	Indoor Unit Address		Remote Control Address
	1	2	
1	OFF	OFF	A
2	ON	ON	B

### To Change Address on PCB Ass'y

- (1) Remove 2 screws and take off the right side cover of indoor unit.
- (2) Locate the address switches on the control PCB Ass'y.
- (3) Change the switches to "ON – ON" position.

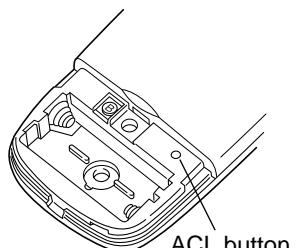
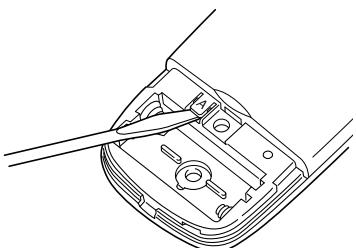


#### NOTE

Address switches 1 and 2 on the PCB Ass'y are both in the "OFF – OFF" position at time of shipment.

### To Change Address on Remote Control Unit

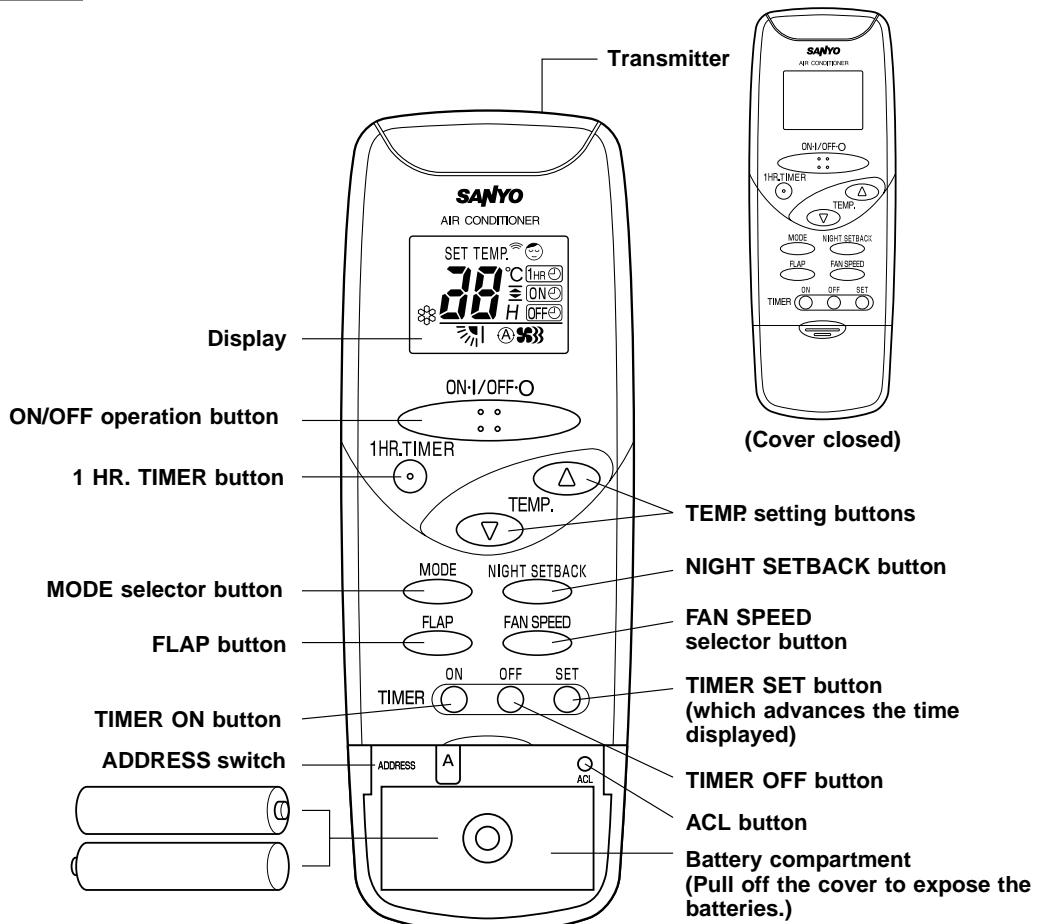
- (1) Remove the batteries before changing the address.
- (2) Remove tab marked A to change the address of the remote control unit.
- (3) When it is removed, the address is automatically set to B.
- (4) After inserting the batteries, press ACL button.



**NOTE** Address switch on the remote control unit is in "A" position at time of shipment.

## APPENDIX

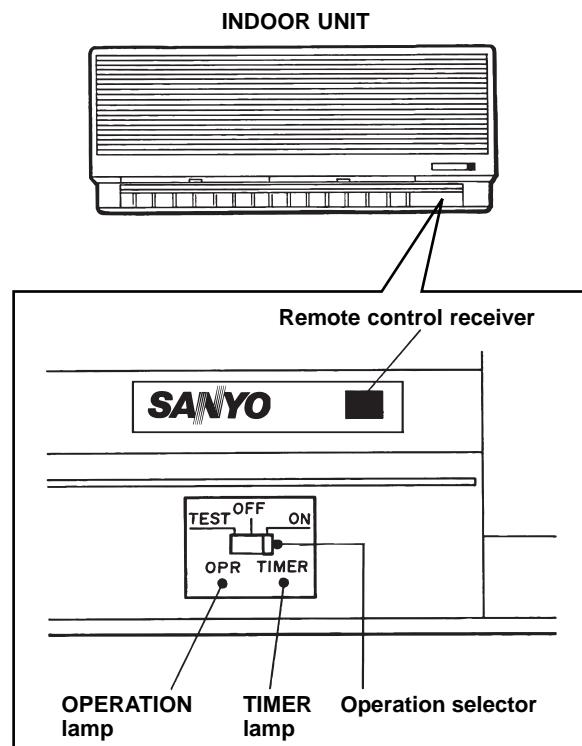
### Remote Control Unit



**NOTE**

The illustration above pictures the remote control unit after the cover has been lowered and removed.

### Unit Display and Operation Selector





**SANYO**

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SANYO Electric Air Conditioning Co.,Ltd.  
Tochigi, Japan.

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