

SEZ-KA60VA Inverter Heat Pump

R410A Ceiling Concealed Ducted System

Designed for homes, offices, restaurants or shops, the SEZ series operates at low noise levels and is virtually invisible when installed within a suspended ceiling. Its low unit height and lightweight design also helps to make installation easier and more convenient.

Model Info



Hover your mouse over the red icons below to view a description of each feature:



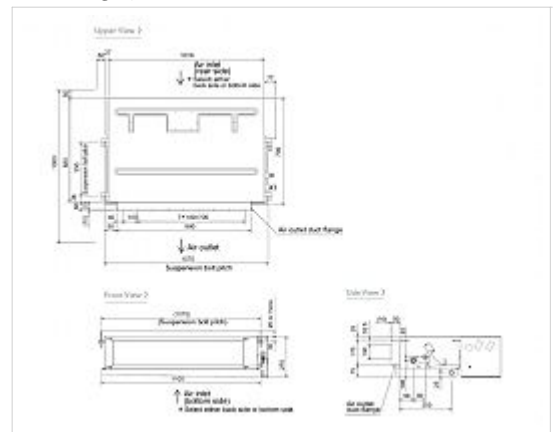
SEZ-KA60VA Indoor Unit

Capacity (kW):	
Heating (Nominal) (Low - High)	6.90 (0.90 - 8.00)
Cooling (Nominal) (Low - High)	5.50 (1.10 - 6.30)
Heating (UK) (Low - High)	5.75 (0.75 - 6.65)
Cooling (UK) (Low - High)	5.45 (1.10 - 6.25)
SHF R410A (Nominal)	0.75
COP / EER (Nominal)	2.82 / 2.81
Energy Label Heating / Cooling	C / D
Width - mm	1100
Depth - mm	700
Height - mm	270
Weight - kg	33.5
Airflow (m3/min) (Heating / Cooling) - Lo-Hi	12-20 / 12-20

Dimensions

SEZ-KA60VA (Click to enlarge).

[\[Print\]](#)



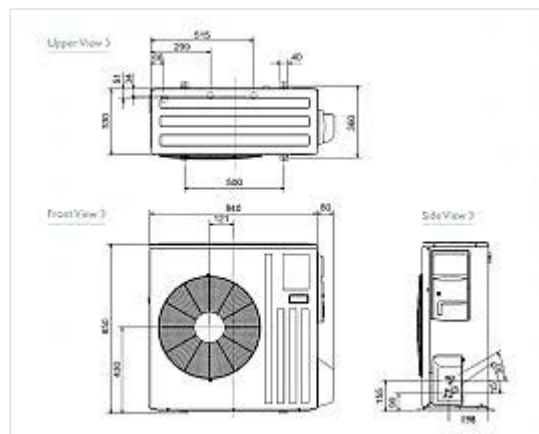
SUZ-KA60VA (Click to enlarge).

[\[Print\]](#)

External Static Pressure Pa(mmAq) - Lo-Hi	30(3)-50(5)
Noise (dBA) (Heating / Cooling) - Lo-Hi	32-43 / 32-43
Pipe Size Gas mm (in)	15.88 (5/8)
Pipe Size Liquid mm (in)	6.35 (1/4)
Electrical Supply	Fed by Outdoor Unit
Phase	Single
Fuse Rating (BS88) - HRC (A)	6
Interconnecting Cable No. Cores	4
Remote Controller Ref	PAR-21MAA

SUZ-KA60VA Outdoor Unit

Width - mm	840
Depth - mm	330
Height - mm	850
Weight - kg	53
Noise (dBA) (Heating / Cooling)	52 / 52
Electrical Supply	220-240v, 50Hz
Phase	Single
Fuse Rating (BS88) - HRC (A)	25
System Power Input (kW) - Heating (Nominal)	2.45
System Power Input (kW) - Cooling (Nominal)	1.96
System Power Input (kW) - Heating (UK)	2.23
System Power Input (kW) - Cooling (UK)	1.57
Starting Current (A)	10.4
System Running Current (A) - Heating / Cooling	10.4 / 9
Mains Cable No. Cores	3
Max Pipe Length (m)	30
Max Height Difference (m)	15
Charge (kg) - 7m	1.8



TECHNICAL & SERVICE MANUAL

Series SEZ Ceiling Concealed R410A

Indoor unit
[Model names]

SEZ-KA35VA

SEZ-KA50VA

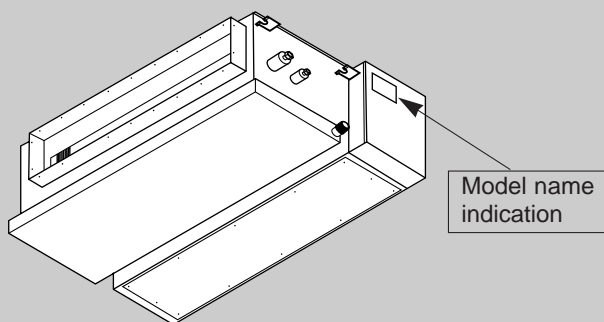
SEZ-KA60VA

[Service Ref.]

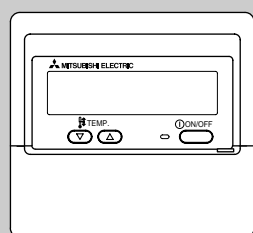
SEZ-KA35VA.TH
SEZ-KA50VA.TH
SEZ-KA60VA.TH

Note :

•This manual does not cover outdoor units. When servicing outdoor units, please refer to the service manual No.OC322 together with this manual.



INDOOR UNIT



WIRED REMOTE
CONTROLLER

CONTENTS

1. PART NAMES AND FUNCTIONS2
2. SPECIFICATIONS.....4
3. OUTLINES AND DIMENSIONS.....8
4. WIRING DIAGRAM9
5. REFRIGERANT SYSTEM DIAGRAM10
6. TROUBLESHOOTING11
7. DISASSEMBLY PROCEDURE15
8. PARTS LIST.....18
9. OPTIONAL PARTSBack Cover

1

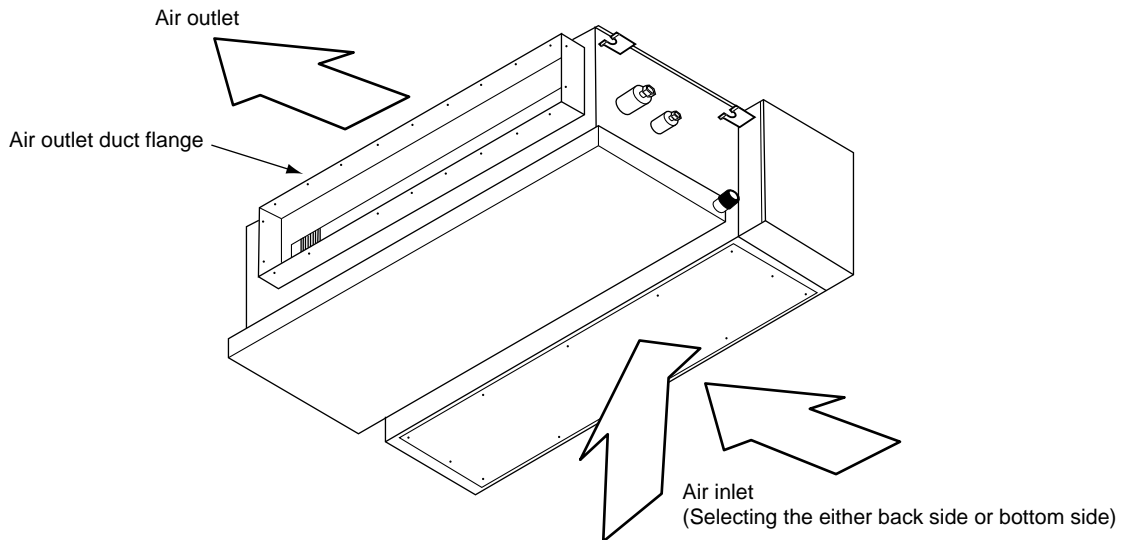
PART NAMES AND FUNCTIONS

Indoor Unit

SEZ-KA35VA.TH

SEZ-KA50VA.TH

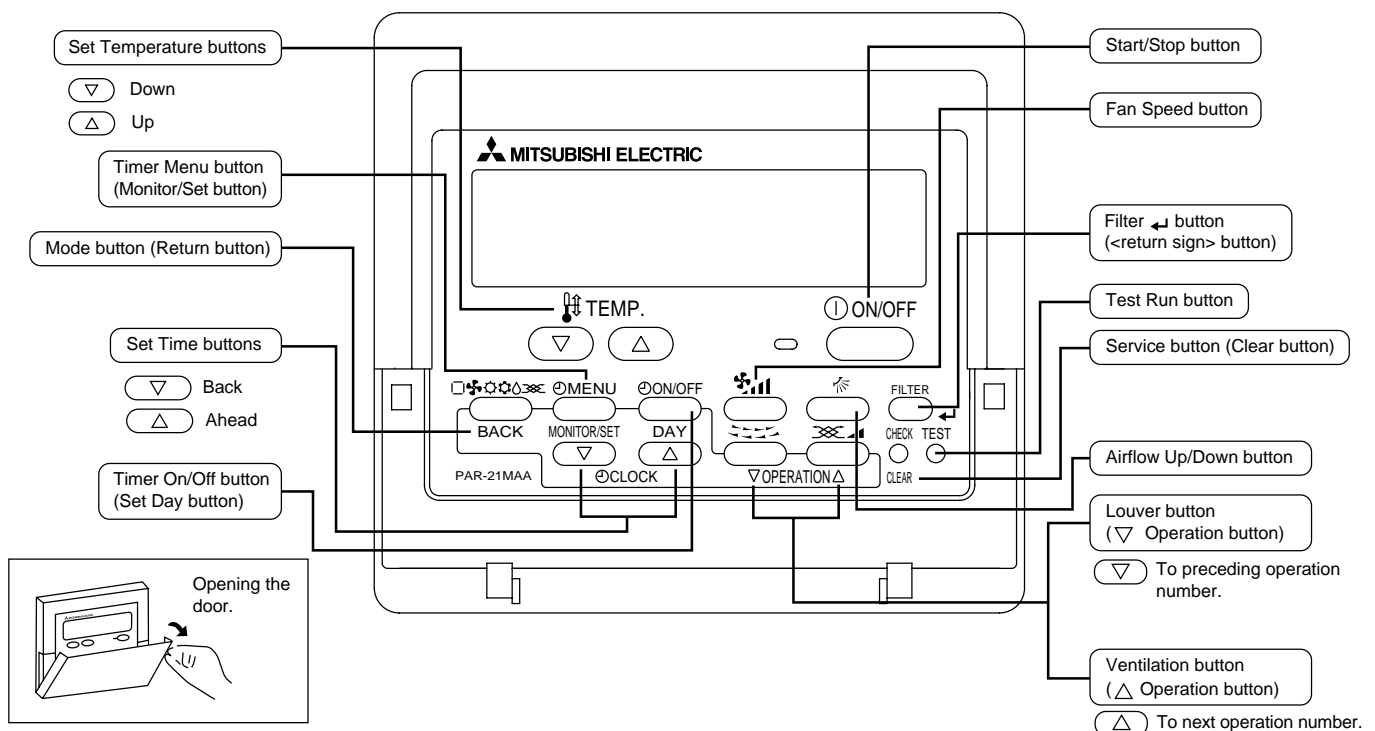
SEZ-KA60VA.TH



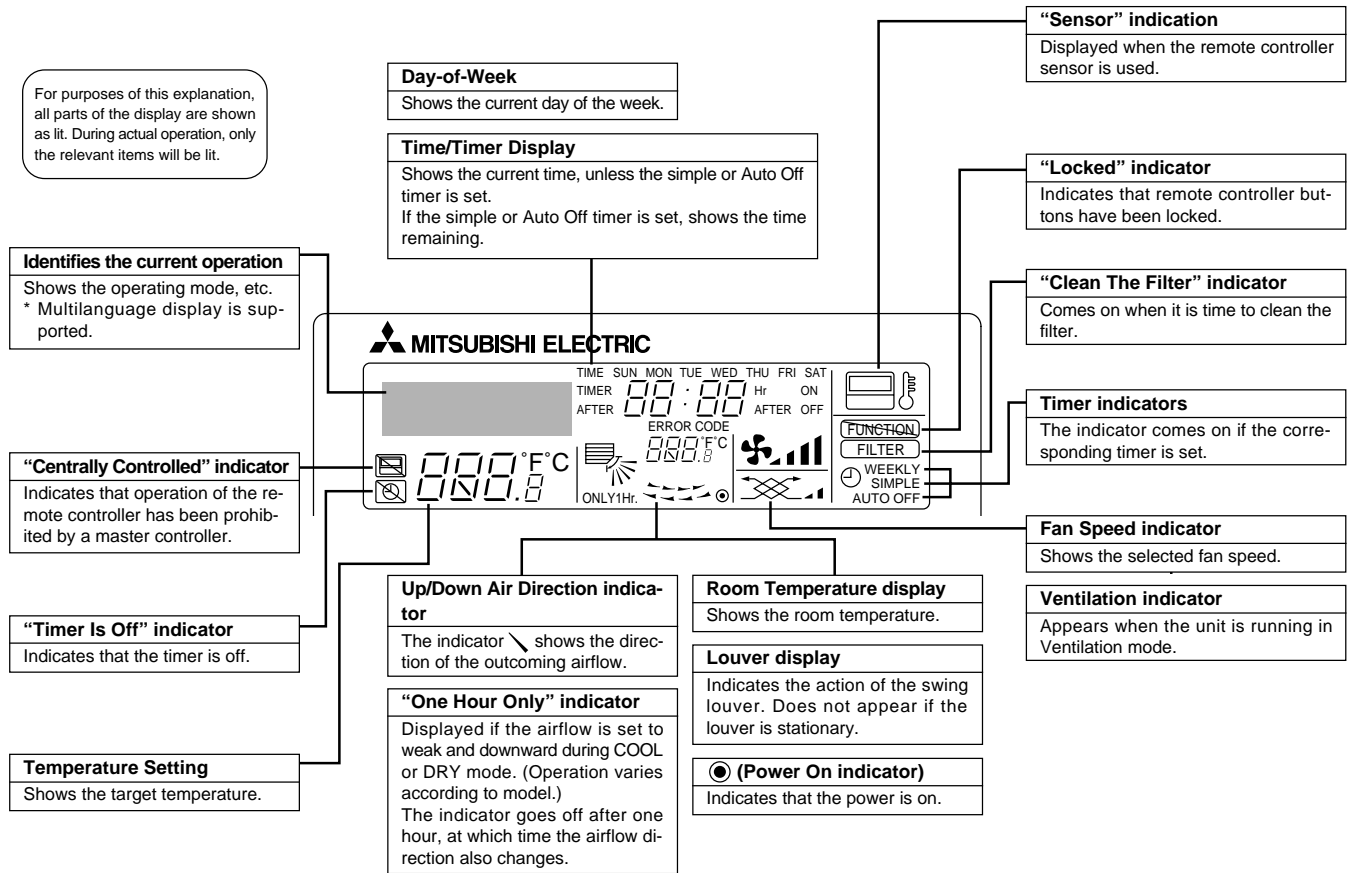
Wired remote controller

On the controls are set, the same operation mode can be repeated by simply pressing the ON/OFF button.

● Operation buttons



● Display



Caution

- Only the Power display lights when the unit is stopped and power supplied to the unit.
- When power is turned ON for the first time the (Centrally controlled) display appears to go off momentarily but this is not a malfunction.
- "NOT AVAILABLE" is displayed when the Air speed button are pressed. This indicates that this room unit is not equipped with the fan direction adjustment function and the louver function.
- When power is turned ON for the first time, it is normal that "PLEASE WAIT" is displayed on the room temperature indication (For max. 2minutes). Please wait until this "PLEASE WAIT" indication disappear then start the operation.

2

SPECIFICATIONS

Indoor model			SEZ-KA35VA.TH		SEZ-KA50VA.TH	
Function			Cooling	Heating	Cooling	Heating
Power supply			Single phase 230V, 50Hz		Single phase 230V, 50Hz	
Capacity	Air flow (High/Low)	m ³ /h	780/600		1020/720	
Electrical data	Power outlet	A	10		20	
	Running current *1	A	0.40		0.55	
	Power input Rated frequency	W	60		80	
	Auxiliary heater	A(kW)	—		—	
	Power factor *1	%	93	94	97	98
	Fan motor current *1	A	0.22		0.27	
Fan motor	Model		PK6V19-EF		PK6V32-EF	
	Winding resistance (at20°C)	Ω	WHT-BLK : 257 BLK-BLU : 20 BLU-YLW : 27 YLW-BRN : 14 BRN-RED : 51		WHT-BLK : 166 BLK-BLU : 52 BLU-YLW : 19 YLW-BRN : 8 BRN-RED : 40	
	Dimensions W×H×D	mm	1100×270×700		1100×270×700	
	Weight	kg	33.5		33.5	
Special remarks	Air direction		1		1	
	Sound level (High/Low)	dB(A)	35/30		39/31	
	Fan speed (High/Low)	rpm	770/630		840/640	
	Fan speed regulator		3		3	
	External static pressure	Pa	Std : 30 Max : 50		Std : 30 Max : 50	
	Thermistor TH1 (at 25°C)	kΩ	10		10	
	Thermistor TH2 (at 25°C)	kΩ	10		10	
	Thermistor TH5 (at 25°C)	kΩ	10		10	

NOTE : Test conditions are based on ISO 5151
Cooling : Indoor D.B. 27°C W.B. 19°C
Outdoor D.B. 35°C W.B. 24°C
Heating : Indoor D.B. 20°C W.B. 5°C
Outdoor D.B. 7°C W.B. 6°C
Refrigerant piping length (one way): 5m
*1 Measured under rated operating frequency.

Specifications and rating conditions of main electric parts

INDOOR UNIT

Item	Model	SEZ-KA35VA.TH SEZ-KA50VA.TH SEZ-KA60VA.TH		
		SEZ-KA35VA.TH	SEZ-KA50VA.TH	SEZ-KA60VA.TH
Indoor fan capacitor	(C1)	SEZ-KA35/50VA.TH : 2.5μF 440V SEZ-KA60VA.TH : 3.0μF 440V		
Fuse	(FUZE)	250V 6.3A		
Varistor	(ZNR)	ERZV10D471		
Terminal block	(TB)	TO OUTDOOR UNIT : 3P TO WIRED REMOTE CONTROLLER : 2P		
Indoor fan motor thermal fuse		145°C ±2°C		



Indoor model			SEZ-KA60VA.TH	
Function			Cooling	Heating
Power supply			Single phase 230V, 50Hz	
Capacity	Air flow (High/Low)	m ³ /h	1200/720	
Electrical data	Power outlet	A	20	
	Running current *1	A	0.65	
	Power input Rated frequency	W	100	
	Auxiliary heater	A(kW)	—	
	Power factor *1	%	98	98
	Fan motor current *1	A	0.39	
Fan motor	Model	PK6V50-EF		
	Winding resistance (at20°C)	Ω	WHT-BLK : 103 BLK-BLU : 57 BLU-YLW : 15 YLW-BRN : 7 BRN-RED : 29	
Dimensions W×H×D		mm	1100×270×700	
Weight		kg	33.5	
Special remarks	Air direction		1	
	Sound level(High/Low)	dB(A)	43/32	
	Fan speed(High/Low)	rpm	890/660	
	Fan speed regulator		3	
	External static pressure	Pa	Std : 30 Max : 50	
	Thermistor TH1 (at 25°C)	kΩ	10	
	Thermistor TH2 (at 25°C)	kΩ	10	
Thermistor TH5 (at 25°C)	kΩ	10		

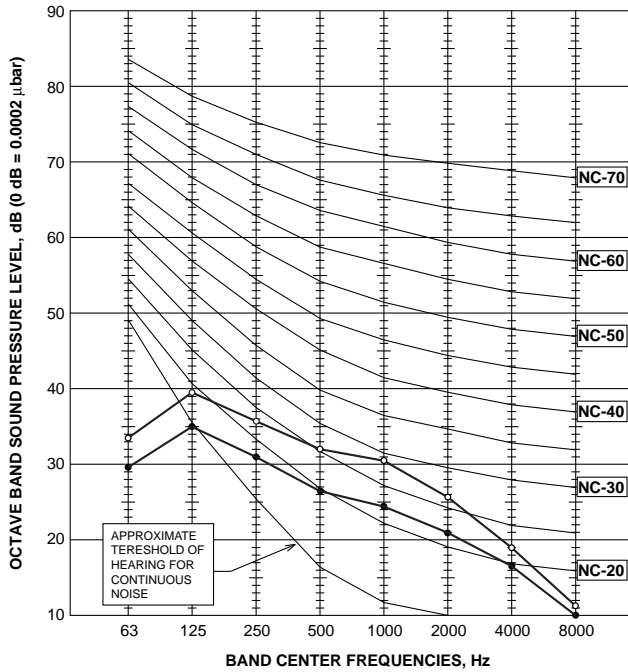
NOTE : Test conditions are based on ISO 5151
Cooling : Indoor D.B. 27°C W.B. 19°C
Outdoor D.B. 35°C W.B. 24°C
Heating : Indoor D.B. 20°C W.B. 15°C
Outdoor D.B. 7°C W.B. 6°C
Refrigerant piping length (one way): 5m
*1 Measured under rated operating frequency.

NOISE CRITERION CURVES

SEZ-KA35VA.TH

<50Hz>

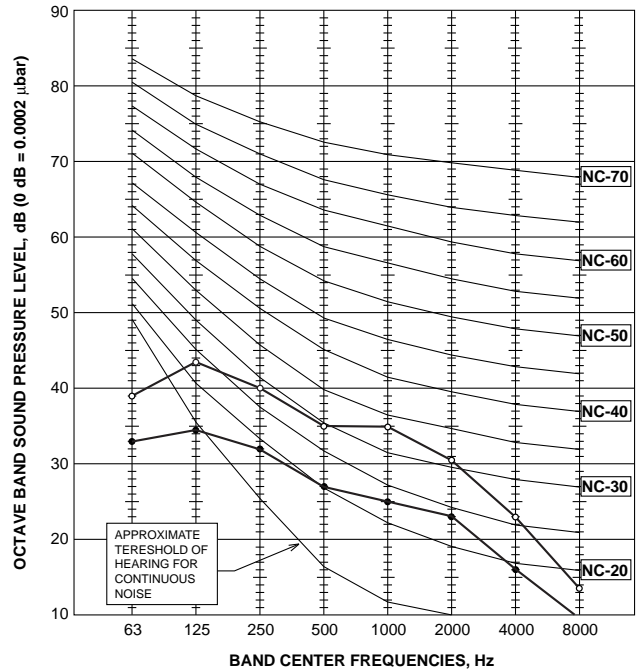
NOTCH	SPL(dB)	LINE
High	35	○—○
Low	30	●—●



SEZ-KA50VA.TH

<50Hz>

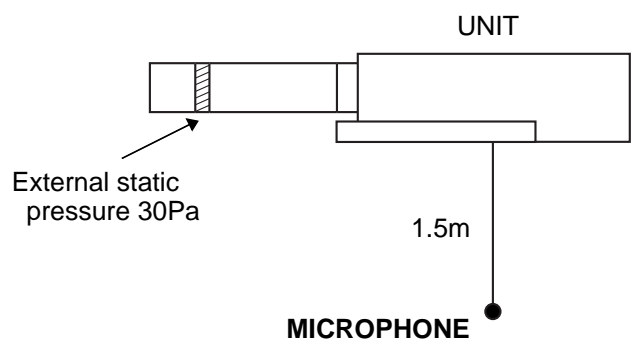
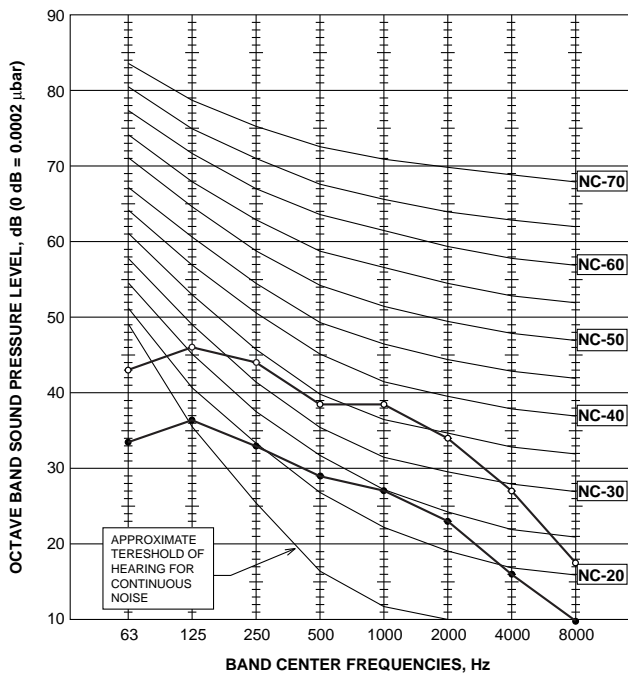
NOTCH	SPL(dB)	LINE
High	39	○—○
Low	31	●—●



SEZ-KA60VA.TH

<50Hz>

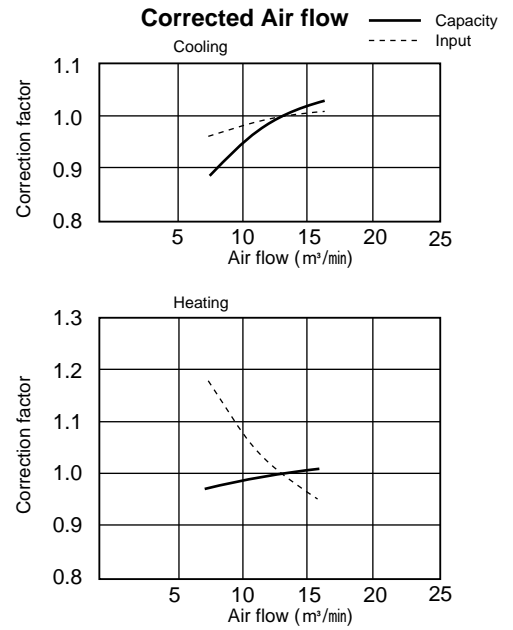
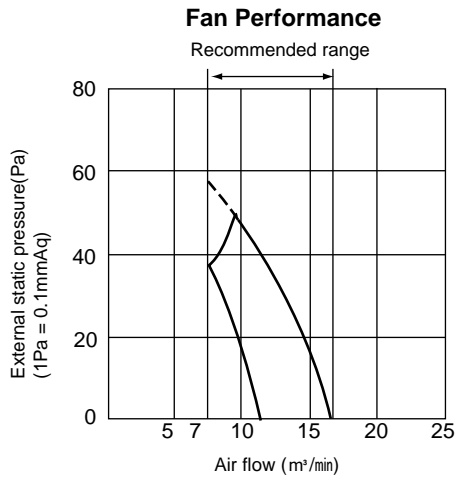
NOTCH	SPL(dB)	LINE
High	43	○—○
Low	32	●—●



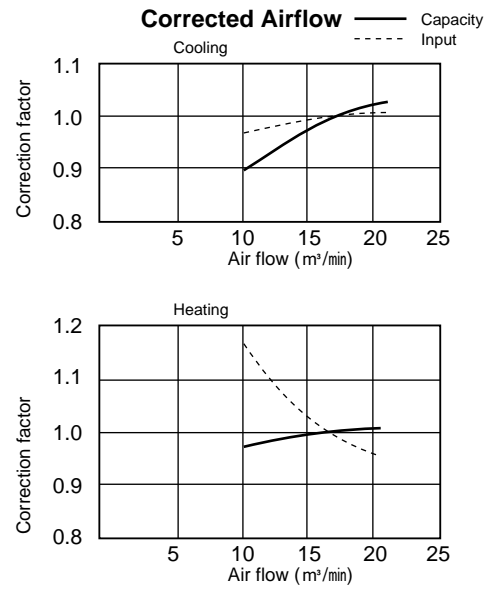
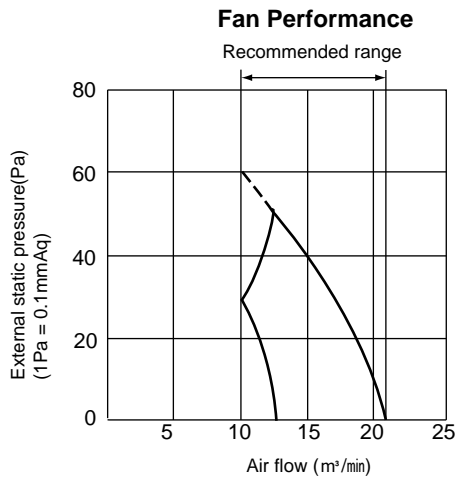
NOTE: The sound level is measured in an anechoic room where echoes are few, when compressor stops. The sound may be bigger than displayed level under actual installation condition by surrounding echoes. The sound level can be higher by about 2 dB than the displayed level during cooling and heating operation.

INDOOR FAN PERFORMANCE AND CORRECTED AIR FLOW

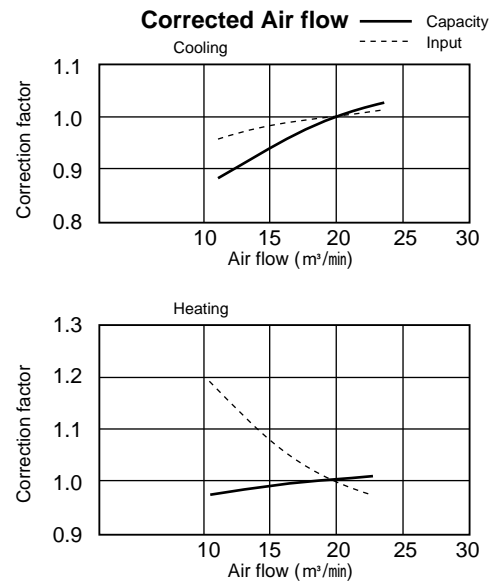
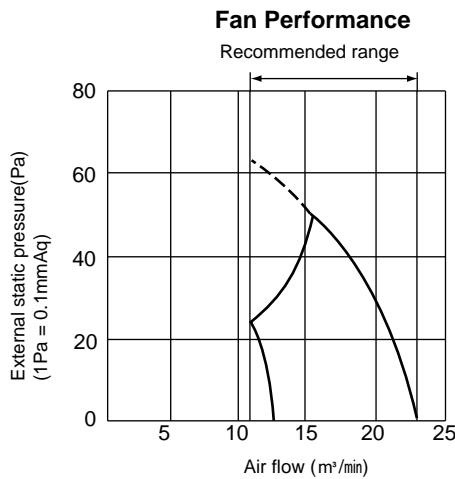
SEZ-KA35VA.TH



SEZ-KA50VA.TH



SEZ-KA60VA.TH

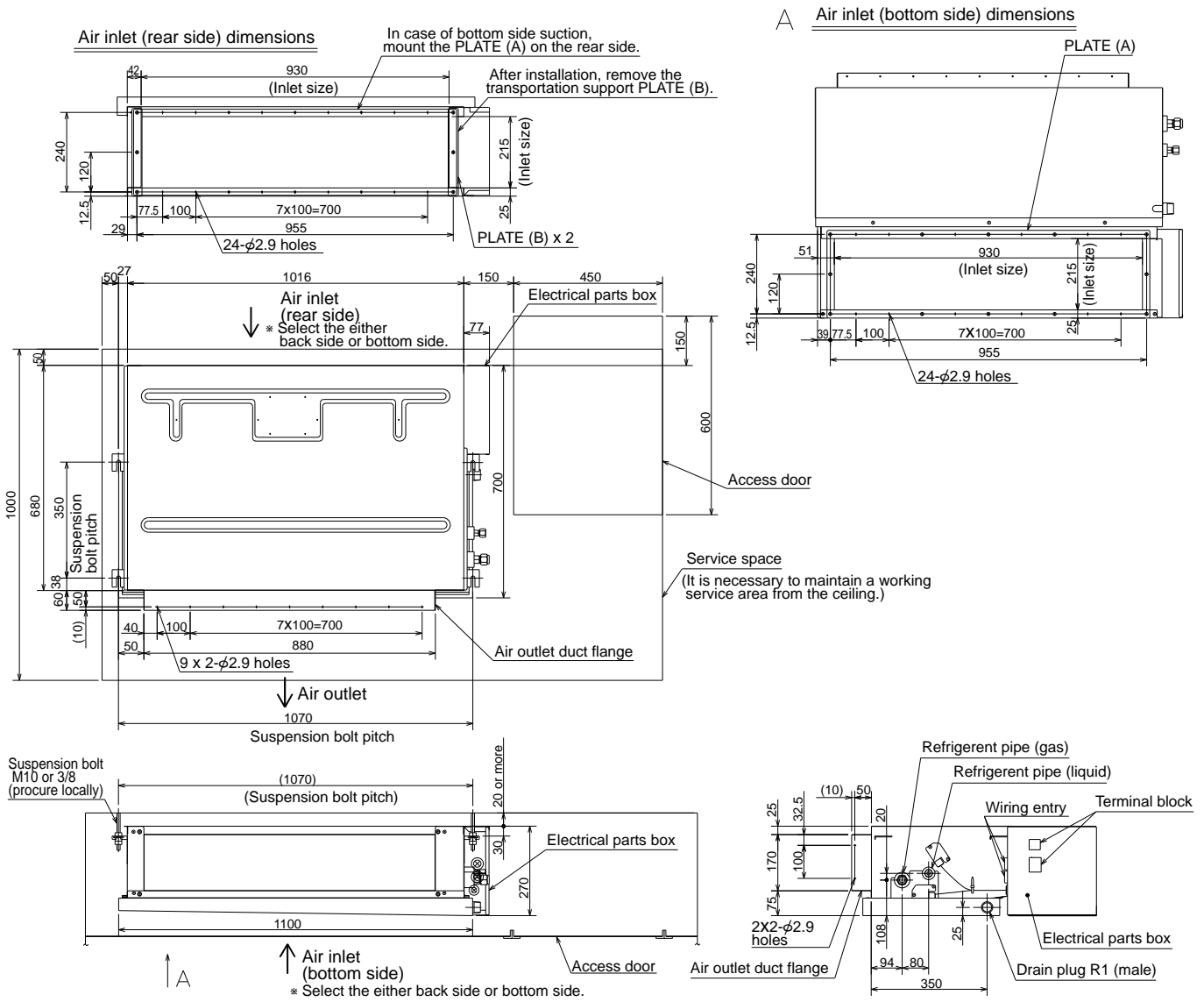


3

OUTLINES AND DIMENSIONS

SEZ-KA35VA.TH
SEZ-KA50VA.TH
SEZ-KA60VA.TH

Unit : mm

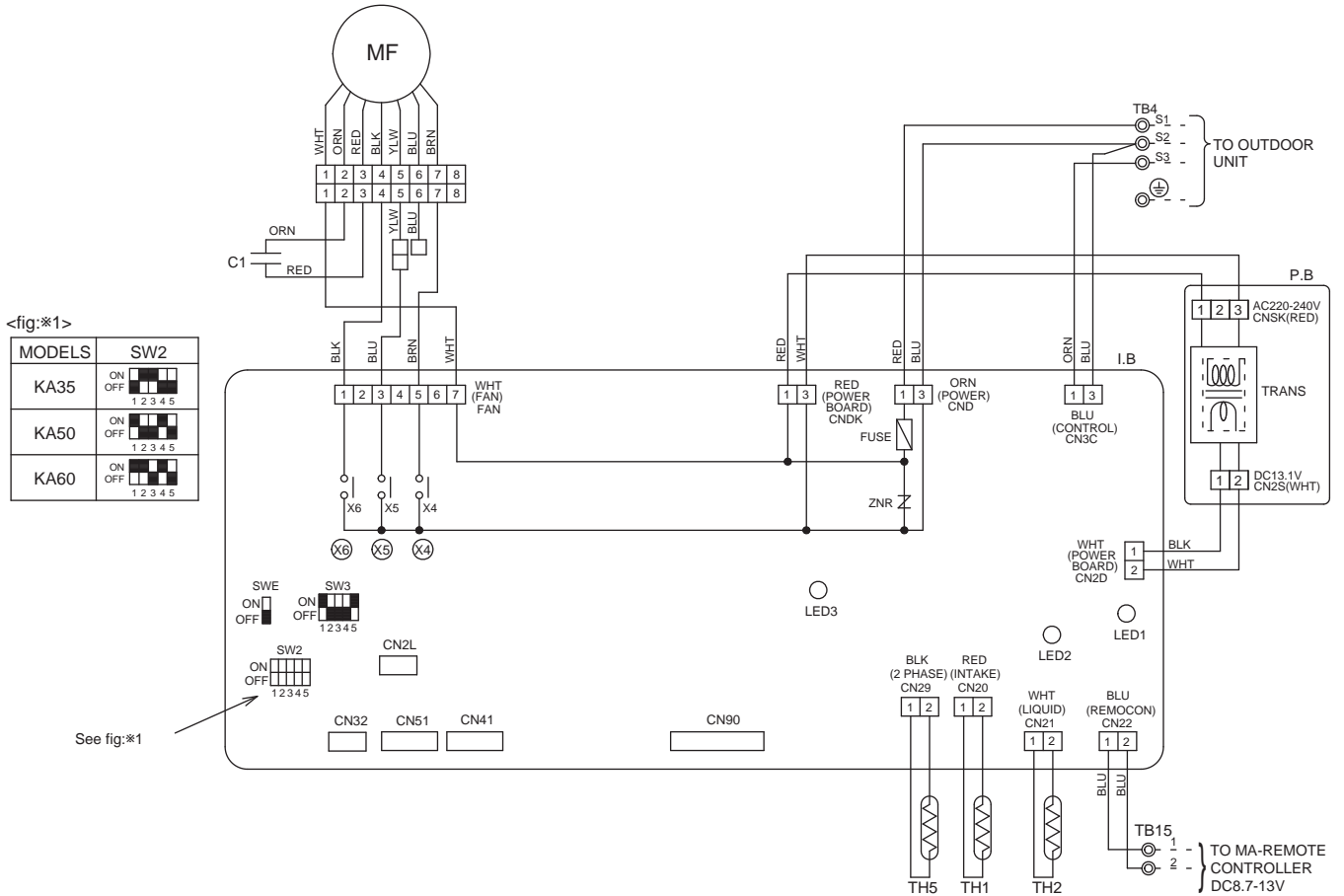


Models	Refrigerant pipe (liquid)	Refrigerant pipe (gas)
SEZ-KA35VA	φ6.35mm flared connection 1/4F	φ9.52mm flared connection 3/8F
SEZ-KA50VA	φ6.35mm flared connection 1/4F	φ12.7mm flared connection 1/2F
SEZ-KA60VA	φ6.35mm flared connection 1/4F	φ15.88mm flared connection 5/8F

4

WIRING DIAGRAM

SEZ-KA35VA.TH
SEZ-KA50VA.TH
SEZ-KA60VA.TH

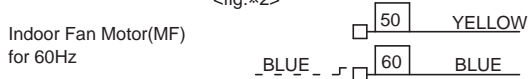


[LEGEND]

SYMBOL	NAME	SYMBOL	NAME
P.B	INDOOR POWER BOARD	C1	CAPACITOR(FAN MOTOR)
I.B	INDOOR CONTROLLER BOARD	MF	FAN MOTOR
	CN2L CONNECTOR(LOSSNAY)	TB4	TERMINAL BLOCK(INDOOR/OUTDOOR CONNECTING LINE)
	CN32 CONNECTOR(REMOTE SWITCH)	TB15	TERMINAL BLOCK(REMOTE CONTROLLER TRANSMISSION LINE)
	CN41 CONNECTOR(HA TERMINAL-A)		
	CN51 CENTRALLY CONTROL	TH1	ROOM TEMP.THERMISTOR (0°C/15kΩ,25°C/5.4kΩ DETECT)
	CN90 CONNECTOR(WIRELESS)	TH2	PIPE TEMP.THERMISTOR/LIQUID (0°C/15kΩ,25°C/5.4kΩ DETECT)
	FUSE FUSE(T6.3AL250V)	TH5	COND./EVA.TEMP.THERMISTOR (0°C/15kΩ,25°C/5.4kΩ DETECT)
	LED1 POWER SUPPLY(I.B)		
	LED2 POWER SUPPLY(I.B)		
	LED3 TRANSMISSION(INDOOR-OUTDOOR)		
	SW2 SWITCH(CAPACITY CODE)		
	SW3 SWITCH(MODE SELECTION)		
	SWE SWITCH(EMERGENCY OPERATION)		
	X4 RELAY(FAN MOTOR LL)		
	X5 RELAY(FAN MOTOR Lo)		
	X6 RELAY(FAN MOTOR Hi)		
	ZNR VARISTOR		

- NOTES: 1.Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.
2.Indoor and outdoor connecting wires are made with polarities,make wiring matching terminal numbers(S1,S2,S3).
3.Symbols used in wiring diagram above are, □□□ :Connector, ⊙ :Terminal(block).
4.Since the indoor fan motor(MF) is connected with 50Hz power, if 60Hz power is used, change the wiring connection showing fig:*2.

<fig:*2>

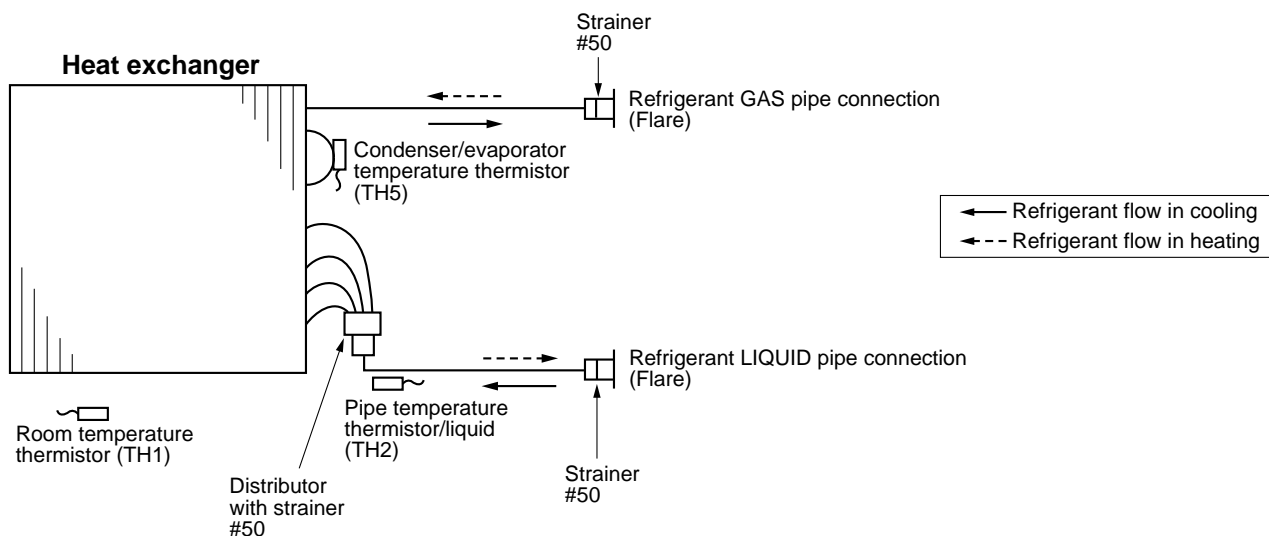


※For details on how to operate self-diagnosis refer to the technical manuals etc.

5

REFRIGERANT SYSTEM DIAGRAM

SEZ-KA35VA.TH
SEZ-KA50VA.TH
SEZ-KA60VA.TH



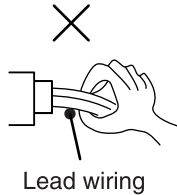
6-1. Cautions on troubleshooting

(1) Before troubleshooting, check the followings:

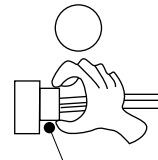
- ① Check the power supply voltage.
- ② Check the indoor/outdoor connecting wire for mis-wiring.

(2) Take care the followings during servicing.

- ① Before servicing the air conditioner, be sure to first turn off the remote controller to stop the main unit, and then turn off the breaker.
- ② When removing the indoor controller board, hold the edge of the board with care NOT to apply stress on the components.
- ③ When connecting or disconnecting the connectors, hold the housing of the connector. DO NOT pull the lead wires.



Lead wiring

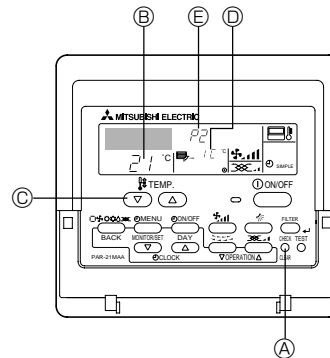


Housing point

6-2. Self-check function

Wired remote controller

- (1) Turn on the power.
- (2) Press the [CHECK] button twice.
- (3) Set refrigerant address with [TEMP] button if system control is used.
- (4) Press the [ON/OFF] button to stop the self-check.
 - Ⓐ CHECK button
 - Ⓑ Refrigerant address
 - Ⓒ TEMP button
 - Ⓓ IC : Indoor unit
OC : Outdoor unit
 - Ⓔ Check code



• For description of each check code, refer to the following table.

① Check code	Symptom	Remark
P1	Intake sensor error	
P2	Pipe (TH2) sensor error	
P9	Pipe (TH5) sensor error	
E6,E7	Indoor/outdoor unit communication error	
P4	Drain sensor error	
P5	Drain pump error	
P6	Freezing/Overheating safeguard operation	
EE	Communication error between indoor and outdoor units	
P8	Pipe temperature error	
E0, E3-E5	Remote controller transmission error	
E1, E2	Remote controller control board error	
Fb	Indoor unit control system error (memory error, etc.)	
E9	Indoor/outdoor unit communication error (Transmitting error) (Outdoor unit)	
UP	Compressor overcurrent interruption	
U3,U4	Open/short of outdoor unit thermistors	
UF	Compressor overcurrent interruption (When compressor locked)	
U2	Abnormal high discharging temperature/49C worked/insufficient refrigerant	
U1,Ud	Abnormal high pressure (63H worked)/Overheating safeguard operation	
U5	Abnormal temperature of heat sink	
U8	Outdoor unit fan safeguard stop	
U6	Compressor overcurrent interruption/Abnormal of power module	
U7	Abnormality of super heat due to low discharge temperature	
U9,UH	Abnormality such as overvoltage or voltage shortage and abnormal synchronous signal to main circuit /Current sensor error	
Others	Other errors (Refer to the technical manual for the outdoor unit.)	

For details, check the LED display of the outdoor controller board. As for outdoor unit, refer to service manual OC322.

• On wired remote controller.

- ① Check code displayed in the LCD.

6-3. Test point diagram

6-3-1. Indoor power board

SEZ-KA35VA.TH

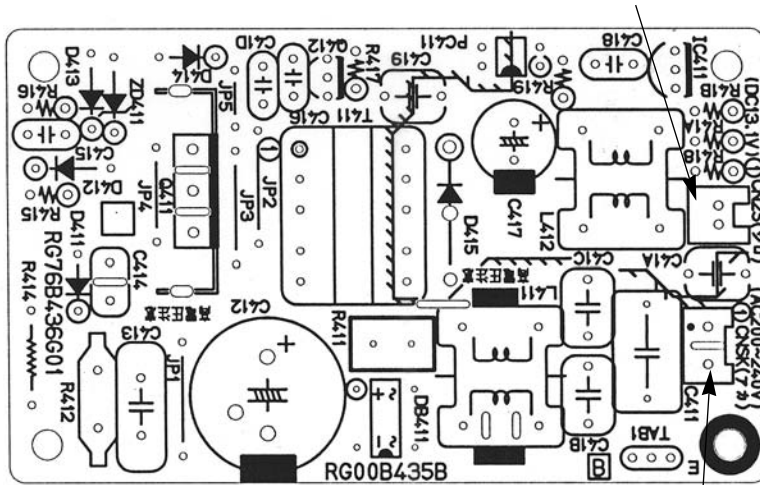
SEZ-KA50VA.TH

SEZ-KA60VA.TH

CN2S

Connect to the indoor controller board (CN2D)

Between ① to ③ 12.6-13.7V DC (Pin① (+))

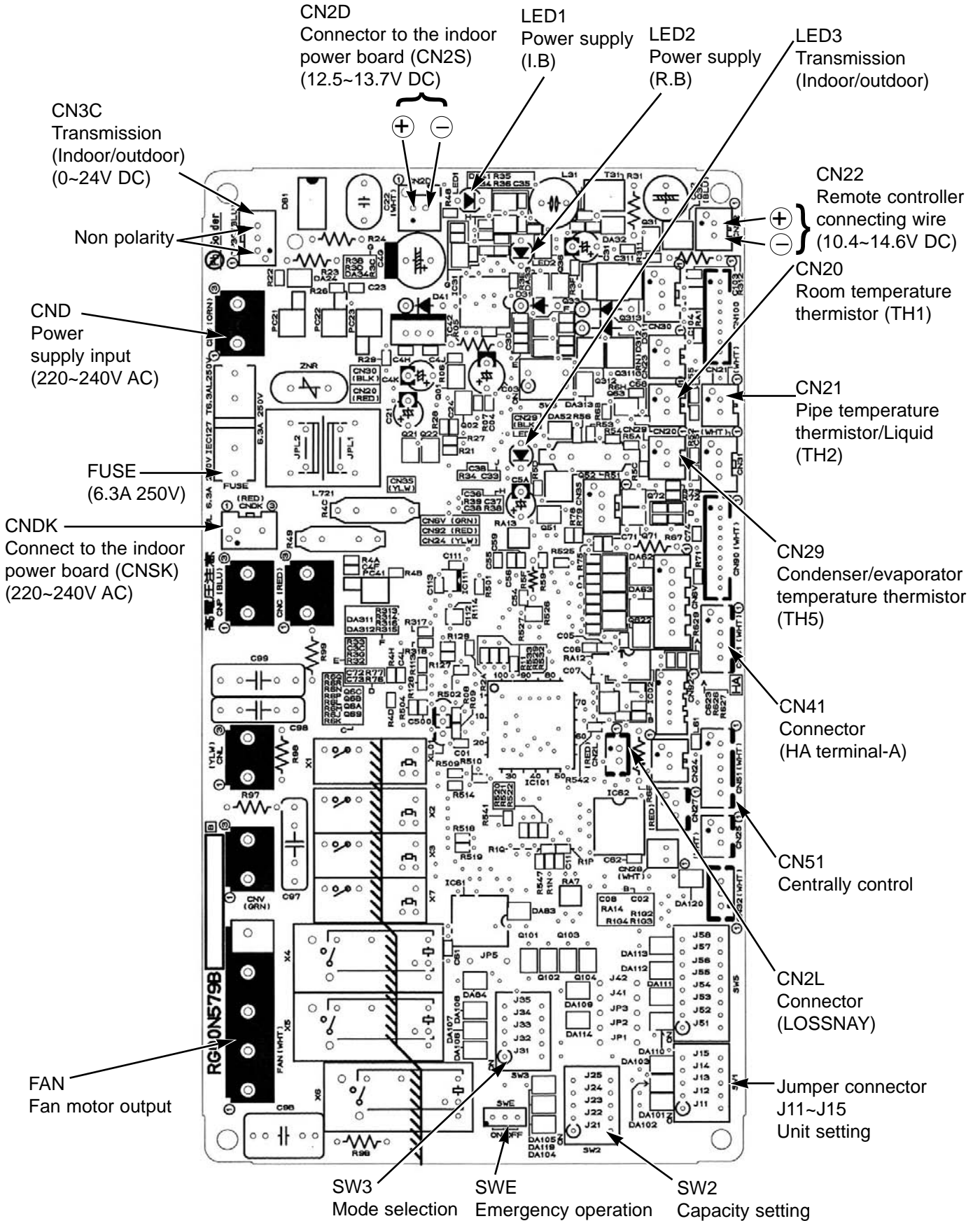


CNSK

Connect to the indoor controller board (CNDK)

Between ① to ③ 220-240V AC

6-3-2. Indoor controller board
SEZ-KA35VA.TH
SEZ-KA50VA.TH
SEZ-KA60VA.TH

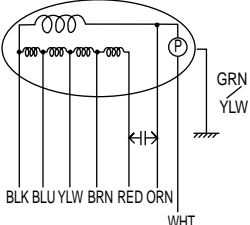


6-4. Trouble criterion of main parts

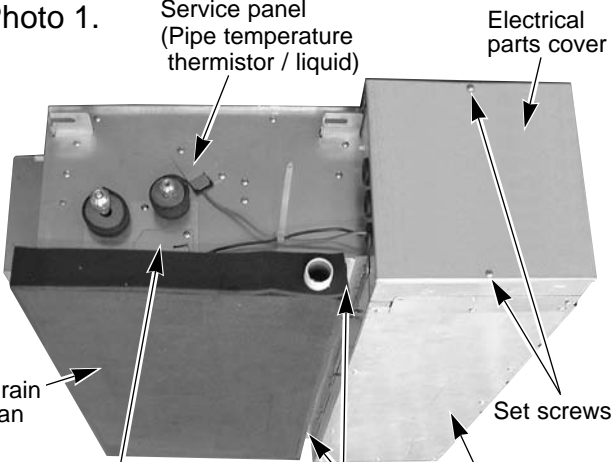
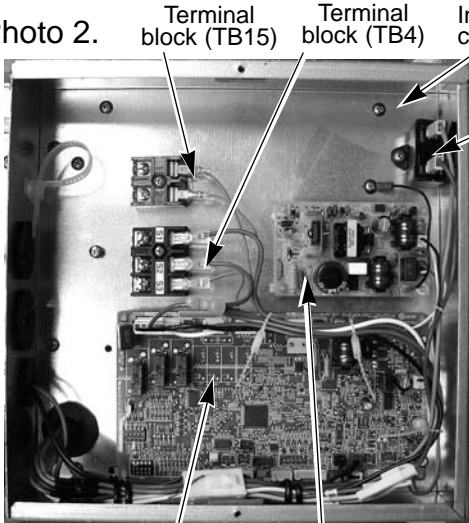
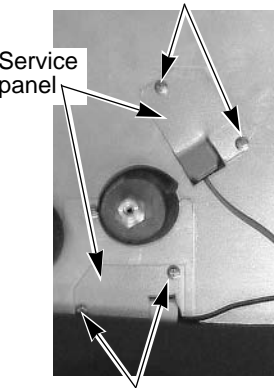
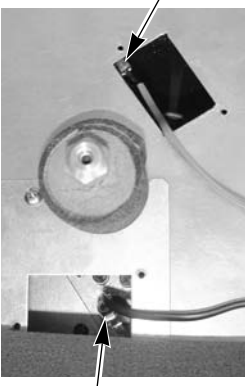
SEZ-KA35VA.TH

SEZ-KA50VA.TH

SEZ-KA60VA.TH

Part name	Check method and criterion							
Room temperature thermistor (TH1)	Measure the resistance with a tester. (Part temperature 10°C ~ 30°C)							
Pipe temperature thermistor/liquid (TH2)					Normal		Abnormal	
Condenser/evaporator temperature thermistor (TH5)					8kΩ~20kΩ		Opened or short-circuited	
Indoor fan motor (MF)  BLK BLU YLW BRN RED ORN WHT ⊕ : Thermal fuse 145 ± 2°C	Measure the resistance between the terminals with a tester. (Coil wiring temperature 10°C ~ 30°C)							
		Normal			Abnormal			
		KA35VA	KA50VA	KA60VA	Opened or short-circuited			
WHT-BLK		270~244Ω	157~175Ω	97~109Ω				
BLK-BLU		19~20Ω	49~55Ω	54~60Ω				
BLU-YLW		25~29Ω	18~20Ω	14~16Ω				
YLW-BRN		13~15Ω	7~9Ω	6~8Ω				
BRN-RED		48~54Ω	38~42Ω	277~31Ω				

SEZ-KA35VA.TH
SEZ-KA50VA.TH
SEZ-KA60VA.TH

OPERATING PROCEDURE	PHOTOS
<p>1. Removing the electrical parts</p> <p>(1) Remove the 2 screws and the electrical parts cover. (See Photo 1.)</p> <ul style="list-style-type: none"> ● Indoor controller board (I.B) ● Terminal block (TB4, TB15) ● Indoor power board (P.B) ● Fan motor capacitor (C1) <p>(See Photo 2.)</p>	<p>Photo 1.</p>  <p>Service panel (Pipe temperature thermistor / liquid)</p> <p>Electrical parts cover</p> <p>Drain pan</p> <p>Set screws</p> <p>Service panel (Condenser / evaporator temperature thermistor)</p> <p>Set screws (for drain pan)</p> <p>Front panel</p>
<p>2. Removing the pipe temperature thermistor (TH2)</p> <p>(1) Remove the electrical parts cover. (Refer to 1.)</p> <p>(2) Remove the 2 screws and the service panel. (See Photo 3.)</p> <p>(3) Remove the thermistor (TH2) from the holder. (See Photo 4.)</p> <p>(4) Remove the connector (CN21) from the indoor controller board and pull the white wire of thermistor (TH2) out.</p>	<p>Photo 2.</p>  <p>Terminal block (TB15)</p> <p>Terminal block (TB4)</p> <p>Indoor controller box</p> <p>Fan motor capacitor</p> <p>Indoor controller board</p> <p>Indoor power board</p>
<p>3. Removing the condenser / evaporator temperature thermistor (RT13)</p> <p>(1) Remove the electrical parts cover. (Refer to 1.)</p> <p>(2) Remove the 2 screws and the service panel. (See Photo 3.)</p> <p>(3) Remove the thermistor (TH5) from the holder. (See Photo 4.)</p> <p>(4) Remove the connector (CN29) from the indoor controller board and pull the black wire of thermistor (TH5) out.</p>	<p>Photo 3.</p>  <p>Screws</p> <p>Service panel</p> <p>Screws</p> <p>Photo 4.</p>  <p>Pipe temperature thermistor / liquid (TH2)</p> <p>Condenser / evaporator temperature thermistor (TH5)</p>

OPERATING PROCEDURE

PHOTOS

4. Removing the room temperature thermistor (TH1)

- (1) Remove the electrical parts cover. (Refer to 1.)
- (2) Remove the 12 screws and the front panel at fan side. (See Photo 1.)
- (3) Remove the thermistor (TH1) from the separator panel. (See Photo 6.)
- (4) Disconnect the connector (CN20) from the indoor controller board and pull the lead wire of thermistor (TH1) out.

Photo 5.

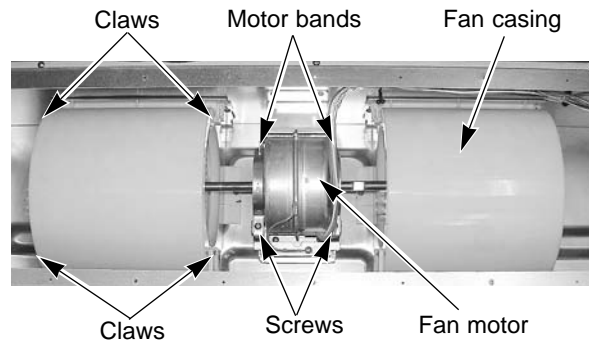
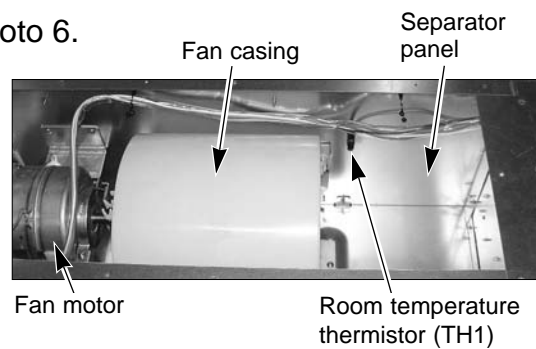


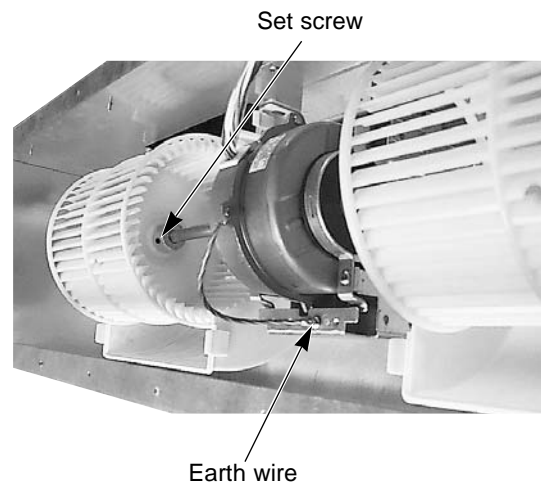
Photo 6.



5. Removing the sirocco fan and the fan motor (MF).

- (1) Remove the electrical parts cover. (Refer to 1.)
- (2) Remove the 12 screws and the front panel at fan side. (See Photo 1.)
- (3) Disconnect the connector of the fan motor lead wire. (See Photo 2.)
- (4) Undo the 4 claws and remove the fan claws. (down side) <Either left or right> (See Photo 5.)
- (5) Remove the motor bands. <A screw each on left and right.> (See Photo 5.)
- (6) Disconnect the earth wire from the fan motor leg. (See Photo 7.)
- (7) Remove the fan motor and the sirocco fan by assembly. (See Photo 7.)
- (8) Unscrew the setting screw and remove the sirocco fan. <Either left or right> (See Photo 7.)

Photo 7.





OPERATING PROCEDURE

6. Removing the drain pan

(1) Unscrew each set screw on the right and left, and remove the drain pan pushing it toward the the back. (See Photo 1.)

7. Removing the heat exchanger

(1) Remove the drain pan. (Refer to 1.)

(2) Remove the 16 screws and the Under flange at heat exchanger side. (See Photo 8.)

(3) Remove the 4 screws of heat exchanger.(2 screws each on left and right) (See Photo 9.)

(4) Remove the thermistor (TH2) from the holder. (Refer to 2.)

(5) Remove the thermistor (TH5) from the holder. (Refer to 3.)

(6) Remove the 3 screws and the service panel. (See Photo 9.)

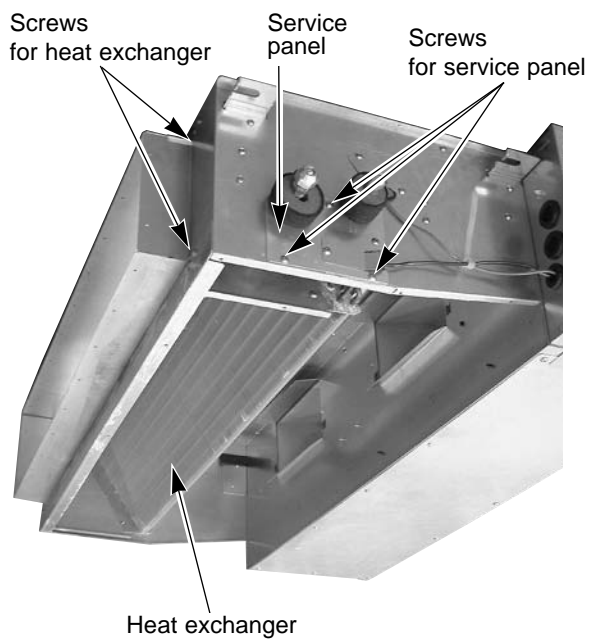
(7) Put the heat exchanger down to the fan motor and pull it toward you. (See Photo 9.)

PHOTOS

Photo 8.



Photo 9.



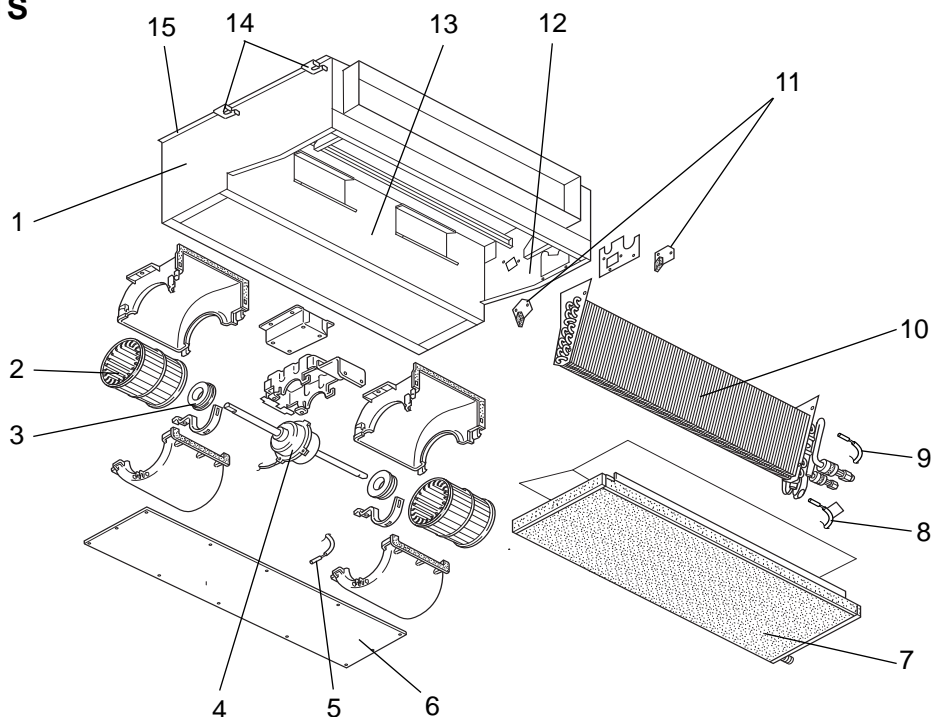
INDOOR UNIT

STRUCTURAL PARTS

SEZ-KA35VA.TH

SEZ-KA50VA.TH

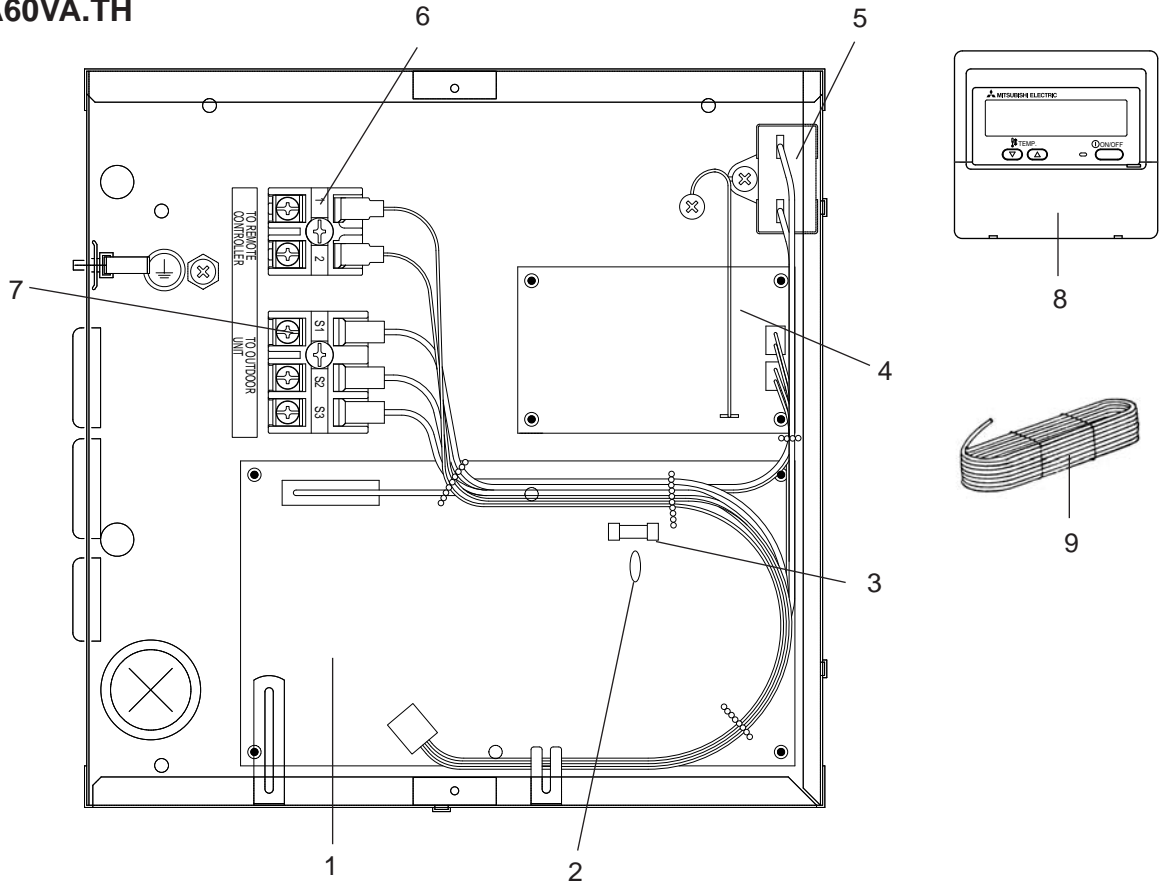
SEZ-KA60VA.TH



Part number that is circled is not shown in the illustration.

No.	Parts No.	Parts name	Specification	Q'ty/set			Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				SEZ-						Unit	Amount
				KA35VA.TH	KA50VA.TH	KA60VA.TH					
1	E07 039 086	LEFT SIDE PANEL		1	1	1					
2	E07 039 500	SIROCCO FAN		2	2	2					
3	E02 179 505	FAN MOTOR RUBBER MOUNT		2	2	2	<2PCS/SET>				
4	E07 039 300	FAN MOTOR	PK6V19-EF	1				MF			
	E07 040 300	FAN MOTOR	PK6V32-EF		1			MF			
	E07 041 300	FAN MOTOR	PK6V50-EF			1		MF			
5	E07 159 308	ROOM TEMPERATURE THERMISTOR		1	1	1		TH1			
6	E07 039 000	FRONT PANEL		1	1	1					
7	E07 039 700	DRAIN PAN		1	1	1					
8	E07 154 309	CONDENSER / EVAPORATOR TEMPERATURE THERMISTOR		1	1	1		TH5			
9	E07 159 307	PIPE TEMPERATURE THERMISTOR / LIQUID		1	1	1		TH2			
10	E07 143 620	INDOOR HEAT EXCHANGER		1							
	E07 144 620	INDOOR HEAT EXCHANGER			1						
	E07 145 620	INDOOR HEAT EXCHANGER				1					
11	E07 039 808	RIGHT LEG		2	2	2					
12	E07 143 085	RIGHT SIDE PANEL		1	1	1					
13	E07 143 293	SEPARATOR ASSY		1	1	1					
14	E07 039 809	LEFT LEG		2	2	2					
15	E07 039 290	BASE		1	1	1					

**INDOOR UNIT
ELECTRICAL PARTS
SEZ-KA35VA.TH
SEZ-KA50VA.TH
SEZ-KA60VA.TH**



Part numbers that is circled is not shown in the illustration.

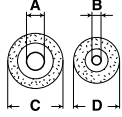
No.	Parts No.	Parts name	Specification	Q'ty/set			Remarks (Drawing No.)	Wiring Diagram Symbol	Recom- mended Q'ty	Price	
				SEZ-						Unit	Amount
				KA35VA.TH	KA50VA.TH	KA60VA.TH					
1	E07 159 447	INDOOR CONTROLLER BOARD		1			I.B				
	E07 160 447	INDOOR CONTROLLER BOARD			1		I.B				
	E07 161 447	INDOOR CONTROLLER BOARD				1	I.B				
2	E02 661 385	VARISTOR		1	1	1	ZNR				
3	E07 006 382	FUSE	250V/6.3A	1	1	1	FUSE				
4	E07 154 440	INDOOR POWER BOARD		1	1	1	P.B				
5	E02 063 351	FAN MOTOR CAPACITOR	2.5 μ F	1	1		C1				
	E02 138 351	FAN MOTOR CAPACITOR	3.0 μ F			1	C1				
6	E07 156 375	TERMINAL BLOCK	2P	1	1	1	TB15				
7	E07 162 375	TERMINAL BLOCK	3P	1	1	1	TB4				
8	E07 159 426	REMOTE CONTROLLER		1	1	1	R.B				
9	E07 018 089	REMOTE CONTROLLER CABLE		1	1	1					
⑩	E07 039 449	CONTROLLER COVER		1	1	1					

9

OPTIONAL PARTS

9-1. REFRIGERANT PIPES

The air conditioner has flared connections its indoor and outdoor sides.
Please use the optional extension pipe as follows.

Applied unit	Models	Pipe length	Pipe size O.D.mm (in.)				Additional refrigerant charge R410A (g)	
			Cross-section	A-Gas	B-liquid	Insulation		
C	D							
SEZ-KA35VA.TH	MAC-680PI	3m		$\phi 9.52$ (3/8)		$\phi 27$	$\phi 21$	0
	MAC-681PI	5m						60
	MAC-682PI	7m						150
	MAC-683PI	10m						300
	MAC-684PI	15m						
SEZ-KA50VA.TH	MAC-670PI	3m		$\phi 12.7$ (1/2)	$\phi 6.35$ (1/4)	$\phi 31$	$\phi 27$	0
	MAC-671PI	5m						40
	MAC-672PI	7m						100
	MAC-673PI	10m						200
	MAC-674PI	15m						
SEZ-KA60VA.TH	MAC-860PI	3m		$\phi 15.88$ (5/8)		$\phi 31$	$\phi 27$	0
	MAC-861PI	5m						40
	MAC-862PI	7m						100
	MAC-863PI	10m						200
	MAC-864PI	15m						

9-2. AIR FILTER

Applied unit	Models
SEZ-KA35VA.TH SEZ-KA50VA.TH SEZ-KA60VA.TH	PAC - 1000 FT

 **MITSUBISHI ELECTRIC CORPORATION**

HEAD OFFICE : MITSUBISHI DENKI BLDG., 2-2-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN