

SPLIT-TYPE, HEAT PUMP AIR CONDITIONERS

2012 R410A

TECHNICAL & SERVICE MANUAL



Model name <Indoor unit> SEZ-KD25VA(L) SEZ-KD35VA(L) SEZ-KD50VA(L) SEZ-KD60VA(L) SEZ-KD71VA(L)



INDOOR UNIT







WIRELESS REMOTE CONTROLLER



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PART NAMES AND FUNCTIONS

Indoor Unit SEZ-KD25VA(L) SEZ-KD35VA(L) SEZ-KD50VA(L) SEZ-KD60VA(L) SEZ-KD71VA(L)

1



Wired remote controller

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

• Operation buttons





Caution

- Only the Power on indicator lights when the unit is stopped and power supplied to the unit.
- If you press a button for a feature that is not installed in the indoor unit, the remote controller will display the "Not Available" message.

If you are using the remote controller to operate multiple indoor units, this message will appear only if the feature is not present at the parent unit.

• 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 disappears then start the operation.

Wireless remote controller



- When using the wireless remote controller, point it towards the receiver on the indoor unit.
- If the remote controller is operated within approximately two minutes after power is supplied to the indoor unit, the indoor unit may beep twice as the unit is performing the initial automatic check.
- The indoor unit beeps to confirm that the signal transmitted from the remote controller has been received. Signals can be received up to approximately 7 meters in a direct line from the indoor unit in an area 45° to the left and right of the unit. However, illumination such as fluorescent lights and strong light can affect the ability of the indoor unit to receive signals.
- If the operation lamp near the receiver on the indoor unit is flashing, the unit needs to be inspected. Consult your dealer for service.
- Handle the remote controller carefully. Do not drop the remote controller or subject it to strong shocks. In addition, do not get the remote controller wet or leave it in a location with high humidity.
- To avoid misplacing the remote controller, install the holder included with the remote controller on a wall and be sure to always place the remote controller in the holder after use.



SPECIFICATIONS

Model Name				SEZ-KD2	25VA(L)	SEZ-KD35VA(L)		
Operation Mode				Cooling	Heating	Cooling	Heating	
Power s	source			220 - 240V (50/60Hz)		220 - 240\	/ (50/60Hz)	
Power i	nput		kW	0.0)4	0.	.05	
Current			Α	0.3	9	0.	46	
Tempera	ature set	range Remote controller	°C(°F)	19 to 30 (67 to 86)	17 to 28 (63 to 83)	19 to 30 (67 to 86)	17 to 28 (63 to 83)	
Airflow d	lirection						-	
Fan	Type x	Quantity		Sirocco	fan x 2	Sirocco	o fan x 2	
		al static press	Ра	5-15-3	35-50	5-15-	-35-50	
	Motor t	vpe		DC blushle	ess motor	DC blush	less motor	
	Motor	output	kW	0.0	96	0.0	096	
	Driving	mechanism		Direct-	driven	Direct	-driven	
	Airflow	rate(Low-Mid-High)	m ³ /min	5.5-7.	0-9.0	7.0-9.	.0-11.0	
External			,	Galva	nized	Galva	anized	
External	dimens	ion	mm	200 x 70	0 x 700	200 x 9	00 x 700	
H x W x	D		In.	7-7/8 x 27-9/	16 x 27-9/16	7-7/8 x 35-7	/16 x 27-9/16	
Net wei	aht		kg	18	3	2	21	
Wiring		Min.size of wire	mm(in.)	1.6 (1/8)		1.6 (1/8)		
0	1	Amperage of wire breaker	A	1!	5	1	15	
Refrigera	ant	Liquid R410A	mm(in.)	ø6.35 (ø1/4) Flare		ø6.35 (ø1/4) Flare		
piping di	ameter	Gas R410A	mm(in.)	ø9.52 (ø3/8) Flare		ø9.52 (ø3/8) Flare		
Drain pip	oing dian	neter	mm(in.)	O.D. 32	(1-9/32)	O.D. 32	(1-9/32)	
		-Mid-High) choic room)	dB <a>	23-26	5-30	23-28-33		
Insulatio	n materia	al		Polystyrene foam, Polyethy	lene foam, Urethane foam	Polystyrene foam, Polyeth	ylene foam, Urethane foam	
Air filter				PP Honeycomb f	abric (washable)	PP Honeycomb fabric (washable)		
Refrigera	ant contr	ol device		-	3 8	-		
Protectio	on device	S		Fuse (25)	OV 6.3A)	Fuse (250V 6.3A)		
Heat exc	changer			Cross fin (Aluminum	fin and copper tube)	Cross fin (Aluminum fin and copper tube)		
Varistor	, i			ERZV1	0D471	ERZV10D471		
Termina	l block			To outdoor unit : 3P To wi	red remote controller : 2P	To outdoor unit : 3P To w	rired remote controller : 2P	
Power o	utlet		Α	1()	1	0	
Standard	b	Document		Installation Manual	, Instruction Book	Installation Manua	al, Instruction Book	
attachme	ent	Accessory	*3	Drain hose (flexible joir	nt), Remote Controller	Drain hose (flexible jo	int), Remote Controller	
Optional	parts			Drain lift-up mechanis	m (PAC-KE07DM-E)	Drain lift-up mechani	ism (PAC-KE07DM-E)	
Remark								
Note	1.Cooling/Heating capacity indicates the maximum value at operation under the following condition. <cooling> Indoor: 27°CD.B./19°CW.B. (81°FD.B. / 66°FW.B. Outdoor:35°CD.B. (95°FD.B.) <heating> Indoor: 20°CD.B. (68°FD.B.) Pipe length: 7.5m (24-9/16ft) Height difference: 0m (0ft) 2.The external static pressure is set to 15 Pa at factory shipment. 3.Wired Remote Controller for VA model , Wireless Remote Controller for VAL model</heating></cooling>							

Model Name				SEZ-KI	D50VA(L)	SEZ-KD	60VA(L)
Operation Mode				Cooling	Heating	Cooling	Heating
Power source				220 - 240V (50/60Hz)		220 - 240V (50/60Hz)	
Power i	input		kW	C	0.07	0.	07
Current			Α	C	.63	0.	63
Tempera	ature set	range Remote controller	°C(°F)	19 to 30 (67 to 86)	17 to 28 (63 to 83)	19 to 30 (67 to 86)	17 to 28 (63 to 83)
Airflow c	direction				-		-
Fan	Type x	Quantity			o fan x 3		o fan x 4
	Externa	al static press	Pa	5-15	-35-50		35-50
	Motor t	уре		DC blust	nless motor		less motor
	Motor		kW		.096		096
		mechanism			t-driven		-driven
		rate(Low-Mid-High)	m ³ /min		2.5-15.0		5.0-18.0
External	-				anized		anized
	l dimens	ion	mm		900 x 700		00 x 700
HxWx			In.		7/16 x 27-9/16		/16 x 27-9/16
Net wei	ight		kg		23		27
Wiring		Min.size of wire	mm(in.)		(1/8)	1.6 (1/8)	
		Amperage of wire breaker			15		5
Refriger		Liquid R410A	. ,	ø6.35 (ø1/4) Flare		ø6.35 (ø1/4) Flare	
		Gas R410A			1/2) Flare		5/8) Flare
		mm(in.)	O.D. 32	2 (1-9/32)	O.D. 32	(1-9/32)	
		r-Mid-High) choic room)	dB <a>		34-37	30-34-38	
Insulatio	on materia	al		Polystyrene foam, Polyeth	nylene foam, Urethane foam	Polystyrene foam, Polyethylene foam, Urethane foar	
Air filter				PP Honeycomb	fabric (washable)	PP Honeycomb	fabric (washable)
Refriger	ant contr	ol device			-		-
Protectio	on device	es			50V 6.3A)	Fuse (250V 6.3A)	
Heat exe	changer			Cross fin (Aluminur	n fin and copper tube)	Cross fin (Aluminum fin and copper tube)	
Varistor					'10D471	ERZV10D471	
Termina				To outdoor unit : 3P To v	vired remote controller : 2P		ired remote controller : 2P
Power o	outlet		A		20		20
Standar	d	Document		Installation Manu	al, Instruction Book	Installation Manua	al, Instruction Book
attachm		Accessory	*3	,	pint), Remote Controller		int), Remote Controller
Optional	l parts			Drain lift-up mechar	iism (PAC-KE07DM-E)	Drain lift-up mechani	sm (PAC-KE07DM-E)
Remark							
Note		1.Cooling/Heating capacity indicates the maximum value at operation under the following condition. <cooling> Indoor: 27°CD.B./19°CW.B. (81°FD.B. / 66°FW.B. Outdoor:35°CD.B. (95°FD.B.) <heating> Indoor:20°CD.B. (68°FD.B.) Outdoor:7°CD.B. / 6°CW.B. (45°FD.B. / 43°FW.B.) Pipe length: 7.5m (24-9/16ft) Height difference: 0m (0ft) 2.The external static pressure is set to 15 Pa at factory shipment. 3.Wired Remote Controller for VA model Wiredess Remote Controller for VA model</heating></cooling>					

Model Name				SEZ-KD71VA(L)		
Operation Mode				Cooling Heating		
Power	source			220 - 240V (50/60Hz)		
Power	input		kW	0.10		
Current			A	0.84		
Temper	ature set	range Remote controller	°C(°F)	19 to 30 (67 to 86) 17 to 28 (63 to 83)		
Airflow of	direction			-		
Fan	Type x	Quantity		Sirocco fan x 4		
	Externa	al static press	Pa	5-15-35-50		
	Motor t	уре		DC blushless motor		
	Motor	output	kW	0.096		
		mechanism		Direct-driven		
		rate(Low-Mid-High)	m ³ /min	12.0-16.0-20.0		
Externa				Galvanized		
	l_dimens	ion	mm	200 x 1100 x 700		
H x W x			In.	7-7/8 × 43-5/16 × 27-9/16		
Net we	ight		kg	27		
Wiring		Min.size of wire	mm(in.)	1.6 (1/8)		
		Amperage of wire breake		15		
Refriger		Liquid R410		ø9.52 (ø3/8) Flare		
				ø15.88 (ø5/8) Flare		
	ping dian		mm(in.)	O.D. 32 (1-9/32)		
		v-Mid-High) echoic room)	dB <a>	30-35-40		
Insulatio	on materi	al		Polystyrene foam, Polyethylene foam, Urethane foam		
Air filter				PP Honeycomb fabric (washable)		
Refriger	rant contr	ol device		-		
Protecti	on device	es		Fuse (250V 6.3A)		
	changer			Cross fin (Aluminum fin and copper tube)		
Varistor				ERZV10D471		
Termina				To outdoor unit : 3P To wired remote controller : 2P		
Power c	outlet	1	A	20		
Standar	ď	Document		Installation Manual, Instruction Book		
attachm	ient	Accessory	*3	Drain hose (flexible joint), Remote Controller		
Optiona	l parts			Drain lift-up mechanism (PAC-KE07DM-E)		
Remark						
Note 1.Cooling/Heating capacity indicates			ity indicate	s the maximum value at operation under the following condition.		
		<heating> Indoor:20°C Pipe lengt</heating>	D.B. (68°FD n: 7.5m (24			
				o 15 Pa at factory shipment. odel, Wireless Remote Controller for VAL model		

NOISE CRITERION CURVES



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.



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INDOOR FAN PERFORMANCE AND CORRECTED AIR FLOW

SEZ-KD25VA(L)



SEZ-KD25VA(L) (External static pressure 15Pa) 220-240V 50/60Hz



SEZ-KD25VA(L)

(External static pressure 35Pa) 220-240V 50/60Hz



SEZ-KD25VA(L)



SEZ-KD35VA(L)



SEZ-KD35VA(L)



SEZ-KD35VA(L)

(External static pressure 15Pa) 220-240V 50/60Hz



SEZ-KD35VA(L)



SEZ-KD50VA(L)



SEZ-KD50VA(L)

(External static pressure 15Pa) 220-240V 50/60Hz



SEZ-KD50VA(L)

(External static pressure 35Pa) 220-240V 50/60Hz



SEZ-KD50VA(L)



SEZ-KD60VA(L)

(External static pressure 5Pa) 220-240V 50/60Hz 40 Limit 30 External static pressure (Pa) 20 High Middle 10 Low Rated point 0 13 14 15 Airflow rate(m³/min) 9 10 11 12 16 17 18 19

SEZ-KD60VA(L)



SEZ-KD60VA(L)

(External static pressure 15Pa) 220-240V 50/60Hz



SEZ-KD60VA(L)



SEZ-KD71VA(L)



SEZ-KD71VA(L)

(External static pressure 15Pa) 220-240V 50/60Hz



SEZ-KD71VA(L)

(External static pressure 35Pa) 220-240V 50/60Hz



SEZ-KD71VA(L)



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Model	Α	В	С	D	E	F	G	Н	J	ĸ	L	 Gas pipe 	② Liquid pipe
SEZ-KD25VA(L)	700	752	798	660	7	600	800	660	5	500	16	ø9.52	
SEZ-KD35VA(L)	900	952	998	860	9	800	1000	860	7	700	20	φ9.52	ø6.35
SEZ-KD50VA(L)	900	952	990	800	9	800	1000	800	'	700	20	ø12.7	φ0.35
SEZ-KD60VA(L)	1100	1150	1100	1000	44	1000	1200	1060	0	000	24	ø15.88	
SEZ-KD71VA(L)	1100	1152	1198	1060	11	1000	1200	1060	9	900	24	φ15.88	ø9.52

Note1.Use M10 screw for the suspension bolt (field supply).

2.Keep the service space for the maintenance at the bottom.

3. This chart indicates for SEZ-KD50VA(L) model, which has 3 fans. SEZ-KD25,35VA(L) models have 2 fans.

SEZ-KD60,71VA(L) models have 4 fans.

4.In case an inlet duct is used, remove the air filter (supply with the unit), then install the filter(field supply) at suction side.

SEZ-KD25VA(L) SEZ-KD35VA(L) SEZ-KD50VA(L) SEZ-KD60VA(L) SEZ-KD71VA(L)

Secure enough access space to allow for the maintenance, inspection, and replacement of the motor, fan, drain pump, heat exchanger, and electric box in one of the following ways.

Select an installation site for the indoor unit so that its maintenance access space will not be obstructed by beams or other objects.

(1) When a space of 300 mm or more is available below the unit between the unit and the ceiling (Fig. 1)

10 mm

. Win

- Create access door 1 and 2 (450 x 450 mm each) as shown in Fig. 2.
- (Access door 2 is not required if enough space is available below the unit for a maintenance worker to work in).
- (2) When a space of less than 300 mm is available below the unit between the unit and the ceiling (At least 20 mm of space should be left below the unit as shown in Fig. 3.)
 - Create access door 1 diagonally below the electric box and access door 3 below the unit as shown in Fig. 4. or
 - Create access door 4 below the electric box and the unit as shown in Fig. 5.

<⊐ Intake air

Min. 300 mm

Ceiling beam

₽

A Fig. 1 Ceiling





Electric box

Supply air

Access door 2 (450 x 450)

V 7 7





Fig. 5 (Viewed from the direction of the arrow B)

				(mm)
Model	Р	Q	R	S
SEZ-KD25	700	50~150	800	1300
SEZ-KD35, 50	900	150~250	1000	1500
SEZ-KD60, 71	1100	250~350	1200	1700

SEZ-KD25VA(L) SEZ-KD35VA(L) SEZ-KD50VA(L) SEZ-KD60VA(L) SEZ-KD71VA(L)

4



SYMBOL EXPLANATION

	SYMBOL	NAME		SYMBOL	NAME
I.B.		INDOOR CONTROLLER BOARD	W.I	В.	WIRELESS REMOTE CONTROLLER BOARD
	FUSE	FUSE AC250V 6.3A		RU	RECEIVING UNIT
	ZNR01,02	VARISTOR		BZ1	BUZZER
	DSA	ARRESTER		LED1	LED (RUN INDICATOR)
	X1	AUX. RELAY		SW1	SWITCH (HEATING ON/OFF)
	CN2L	CONNECTOR (LOSSNAY)		SW2	SWITCH (COOLING ON/OFF)
	CN32	CONNECTOR (REMOTE SWITCH)	TH1		INTAKE AIR TEMP. THERMISTOR
	CN41	CONNECTOR (HA TERMINAL-A)	TH2		PIPE TEMP. THERMISTOR/LIQUID
	CN51	CONNECTOR (CENTRALLY CONTROL)	TH	5	COND. /EVA. TEMP. THERMISTOR
	CN90	CONNECTOR (WIRELESS)	L1		AC REACTOR (POWER FACTOR IMPROVEMENT)
	LED1	POWER SUPPLY (I.B.)			FLOAT SWITCH
	LED2	POWER SUPPLY (I.B.)	ТВ	4	TERMINAL BLOCK
	LED3	TRANSMISSION (INDOOR-OUTDOOR)		+	(INDOOR/OUTDOOR CONNECTING LINE)
	SW1	SWITCH (FOR MODEL SELECTION)	тв	15	TERMINAL BLOCK
	SW2	SWITCH (FOR CAPACITY CODE)		10	(REMOTE CONTROLLER TRANSMISSION LINE)
	SWE	CONNECTOR (EMERGENCY OPERATION)			

NOTE)1. Since the outdoor side electric wiring may change be sure to check the outdoor unit electric wiring for servicing.

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,

 \ominus :Connector, \odot :Terminal Block.



6-1. CAUTIONS ON TROUBLESHOOTING

- (1) Before troubleshooting, check the followings:
 - ① Check the power supply voltage.

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- O 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 turn off the remote controller first 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.





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 protection 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	For details, check the LED display
U1,Ud	Abnormal high pressure (63H worked)/Overheating protection operation	of the outdoor controller board.
U5	Abnormal temperature of heat sink	As for outdoor unit, refer to
U8	Outdoor unit fan safeguard stop	service manual OC322.
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.)	

• On wired remote controller.

① Check code displayed in the LCD.

• If the unit cannot be operated properly after the test run has been performed, refer to the following table to remove the cause.

	Symptom	Cause	
Wired remote contr	oller	LED 1, 2 (PCB in outdoor unit)	Cause
PLEASE WAIT	For about 2 minutes after power-on	After LED 1, 2 are lighted, LED 2 is turned off, then only LED 1 is lighted. (Correct operation)	• For about 2 minutes after power-on,op- eration of the remote controller is not possible due to system start-up. (Correct operation)
PLEASE WAIT → Error code	After about 2 minutes has	Only LED 1 is lighted. → LED 1, 2 blink.	 Connector for the outdoor unit's protection device is not connected. Reverse or open phase wiring for the outdoor unit's power terminal block (L1, L2, L3)
Display messages do not appear even when operation switch is turned ON (operation lamp does not light up).	expired after power-on Only LED 1 is lighted. → LED 1 blinks twice, LED 2 blinks once.		 Incorrect wiring between indoor and outdoor units (incorrect polarity of S1, S2, S3) Remote controller wire short

On the wireless remote controller with condition above, following phenomena take place.

• No signals from the remote controller are accepted.

• Operation lamp is blinking.

• The buzzer makes a short piping sound.

Note: Operation is not possible for about 30 seconds after cancellation of function selection. (Correct operation)

For description of each LED (LED1, 2, 3) provided on the indoor controller, refer to the following table.

LED1 (power for microcomputer)	Indicates whether control power is supplied. Make sure that this LED is always lit.
LED2 (power for remote controller)	Indicates whether power is supplied to the remote controller. This LED lights only in the case of the indoor unit which is connected to the outdoor unit refrigerant address "0".
LED3 (communication between indoor and outdoor units)	Indicates state of communication between the indoor and outdoor units. Make sure that this LED is always blinking.

Wireless remote controller

- (1) Turn on the power to the unit at least 12 hours before the test run.
- (2) Press the TEST RUN button (a) twice continuously.
 (Start this operation from the status of remote controller display turned off.)
 and current operation mode are displayed.
- (3) Press the MODE button (a) to activate COOL mode, then check whether cool air is blown out from the unit.
- (4) Press the MODE button ^(B) to activate HEAT mode, then check whether warm air is blown out from the unit.
- (5) Press the FAN button © and check whether fan speed changes.
- (6) Press the VANE button @ and check whether the auto vane operates prop-
- erly. (7) Press the ON/OFF button to stop the test run.

Note:

- Point the remote controller towards the indoor unit receiver while following steps (2) to (7).
- It is not possible to run the in FAN, DRY or AUTO mode.

[Output pattern A] Errors detected by indoor unit

Wireless remote controller	Wired remote controller		
Beeper sounds/OPERATION INDICATOR lamp flashes	Check code	Symptom	Remark
(Number of times)	P1	Intake sensor error	
1			
2	P2, P9	Pipe (Liquid or 2-phase pipe) sensor error	
3	E6, E7	Indoor/outdoor unit communication error	
4	P4	Drain sensor error	
5	P5	Drain pump error	
6	P6	Freezing/Overheating safeguard operation	
7	EE	Communication error between indoor and outdoor units	
8	P8	Pipe temperature error	
9	E4	Remote controller signal receiving error	
10	-	-	
11	-	-	
12	Fb	Indoor unit control system error (memory error, etc.)	
14	PL	Refrigerant circuit abnormal	
No sound		No corresponding	

[Output pattern B] Errors detected by unit other than indoor unit (outdoor unit, etc.)

Wireless remote controller		
Beeper sounds/OPERATION INDICATOR	Symptom	Remark
lamp flashes (Number of times)		
1	Indoor/outdoor unit communication error (Transmitting error) (Outdoor unit)	
2	Compressor overcurrent interruption	
3	Open/short of outdoor unit thermistors	
4	Compressor overcurrent interruption (When compressor locked)	
5	Abnormal high discharging temperature/49C worked/ insufficient refrigerant	
6	Abnormal high pressure (63H worked)/ Overheating safeguard operation	
7	Abnormal temperature of heat sink	For details, check the LED
8	Outdoor unit fan protection stop	display of the outdoor controller
9	Compressor overcurrent interruption/Abnormal of power module	board.
10	Abnormality of super heat due to low discharge temperature	
11	Abnormality such as overvoltage or voltage shortage and abnormal	
	synchronous signal to main circuit/Current sensor error	
12	-	
13	-	
14	Other errors (Refer to the technical manual for the outdoor unit.)	

*1 If the beeper does not sound again after the initial two beeps to confirm the self-check start signal was received and the OPERATION INDICATOR lamp does not come on, there are no error records.

*2 If the beeper sounds three times continuously "beep, beep, beep (0.4 + 0.4 sec.)" after the initial two beeps to confirm the self-check start signal was received, the specified refrigerant address is incorrect.

• On wireless remote controller

The continuous buzzer sounds from receiving section of indoor unit. Blink of operation lamp

On wired remote controller

Check code displayed on the LCD.

• If the unit cannot be operated properly after the test run has been performed, refer to the following table to remove the cause.

Symptom		Cause	
Wired remote cor	ntroller	LED 1, 2 (PCB in outdoor unit)	Cause
PLEASE WAIT	For about 2 minutes following power-on	After LED 1, 2 are lighted, LED 2 is turned off, then only LED 1 is lighted. (Correct operation)	 For about 2 minutes after power-on, operation of the remote controller is not possible due to system start-up. (Correct operation)
PLEASE WAIT → Error code	After about 2 min- utes has expired	Only LED 1 is lighted. \rightarrow LED 1, 2 blink.	 Connector for the outdoor unit's protection device is not connected. Reverse or open phase wiring for the outdoor unit's power terminal block (L1, L2, L3)
Display messages do not appear even when operation switch is turned ON (operation lamp does not light up).	Only LED 1 is lighted. \rightarrow LED 1, 2 blinks twice, LED 2 blinks once.	 Incorrect wiring between indoor and outdoor units (incorrect polarity of S1, S2, S3) Remote controller wire short 	

On the wireless remote controller with conditions above, following phenomena takes place.

No signals from the remote controller are accepted.

OPE lamp is blinking.

• The buzzer makes a short ping sound.

Note:

Operation is not possible for about 30 seconds after cancellation of function selection. (Correct operation)

For description of each LED (LED1, 2, 3) provided on the indoor controller, refer to the following table.

LED 1 (power for microcomputer)	Indicates whether control power is supplied. Make sure that this LED is always lit.
LED 2 (power for remote controller)	Indicates whether power is supplied to the remote controller. This LED lights only in the case of
	the indoor unit which is connected to the outdoor unit refrigerant address "0".
LED 3 (communication between indoor and outdoor units)	Indicates state of communication between the indoor and outdoor units. Make sure that this LED is
	always blinking.

AUTO RESTART FUNCTION

Indoor controller board

This model is equipped with the AUTO RESTART FUNCTION.

When the indoor unit is controlled with the remote controller, the operation mode, set temperature, and the fan speed are memorized by the indoor controller board. The auto restart function sets to work the moment the power has restored after power failure, then, the unit will restart automatically. Set the AUTO RESTART FUNCTION using the wireless remote controller. (Mode no.1).

6-3. SELF-DIAGNOSIS ACTION TABLE

Note: Refer to the manual of outdoor unit for the details of display such as F, U, and other E.

Error Code	Abnormal point and detection method	Cause	Countermeasure
	Room temperature	① Defective thermistor	①_③ Check resistance value of thermistor.
P1	 thermistor (TH1) The unit is in three-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after three minutes. (The unit returns to normal operation, if it has normally reset.) Constantly detected during cooling, drying and heating operation Short: 90°C or more Open: -40°C or less 	 characteristics Contact failure of connector (CN20) on the indoor controller board (Insert failure) Breaking of wire or contact failure of thermistor wiring Defective indoor controller board 	 0°C ·····15.0kΩ 10°C ····9.6kΩ 20°C ····6.3kΩ 30°C ····4.3kΩ 40°C ····3.0kΩ If you put force on (draw or bend) the lead wire with measuring resistance value of thermistor breaking of wire or contact failure can be detected. (2° Check contact failure of connector (CN20) on the indoor controller board. Refer to 6-5. Turn the power on again and check restart after inserting connector again. (4° Check room temperature display on remote controller. Replace indoor controller board if there is abnormal difference with actual room temperature. Turn the power off, and on again to operate after check.
P2	 Pipe temperature thermistor/Liquid (TH2) The unit is in three-minute resume prevention mode if short/open of thermistor is detected. Abnormal if the unit does not reset normally after three minutes. (The unit returns to normal operation, if it has normally reset.) Constantly detected during cooling, drying, and heating (except defrosting) operation. Short: 90°C or more Open: -40°C or less 	 Defective thermistor characteristics Contact failure of connector (CN44) on the indoor controller board (Insert failure) Breaking of wire or contact failure of thermistor wiring Defective refrigerant circuit is causing thermistor temperature of 90°C or more or -40°C or less. Defective indoor controller board 	 ①-③ Check resistance value of thermistor. For characteristics, refer to (P1) above. ② Check contact failure of connector (CN44) on the indoor controller board. Refer to 6-5. Turn the power on again and check restart after inserting connector again. ④ Check pipe <liquid> temperature with remote controller in test run mode. If pipe <liquid> temperature is extremely low (in cooling mode) or high (in heating mode), refrigerant circuit may have defective.</liquid></liquid> ⑤ Check pipe <liquid> temperature with remote controller in test run mode. If there is extreme difference with actual pipe <liquid> temperature, replace indoor controller board.</liquid></liquid> Turn the power off, and on again to operate after check.
P4 (5701)	Contact failure of drain float switch (CN4F) ① Extract when the connector of drain float switch is disconnected. (③ and ④ of connector CN4F is not short-circuited.) ② Constantly detected during operation.	 Contact failure of connector (Insert failure) Defective indoor controller board 	 Check contact failure of float switch connector. Turn the power on again and check after inserting connector again. Operate with connector (CN4F) short-circuited. Replace indoor controller board if abnormality reappears.
Ρ5	 Drain overflow protection operation ① Suspensive abnormality, if drain float switch is detected to be underwater for 1 minute and 30 seconds continuously with drain pump on. Turn off compressor and indoor fan. ② Drain pump is abnormal if the condition above is detected during suspensive abnormality. ③ Constantly detected during drain pump operation. 	 Malfunction of drain pump Defective drain Clogged drain pump Clogged drain pipe Defective drain float switch Catch of drain float switch or malfunction of moving parts cause drain float switch to be detected under water (Switch On) Defective indoor-controller board 	 Check if drain-up machine works. Check drain function. Remove drain float switch connector CN4F and check if it is short (Switch On) with the moving part of float switch UP, or OPEN with the moving part of float switch down. Replace float switch if it is short with the moving part of float switch down. Replace indoor controller board if it is short-circuited between ③-④ of the drain float switch connector CN4F and abnormality reappears. It is not abnormal if there is no problem about the above-mentioned ①~④ Turn the power off, and on again to operate after check.

Fror Code	Abnormal point and detection method	Cause	Countermeasure
	 Freezing/overheating protection is working Freezing protection (Cooling mode) The unit is in six-minute resume prevention mode if pipe <liquid condenser="" evaporator="" or=""> temperature stays under -15°C for three minutes after the compressor started. Abnormal if it stays under -15°C for three minutes again within 16 minutes after six-minute resume prevention mode.</liquid> Overheating protection (Heating mode) The units is in six-minute resume prevention mode if pipe <liquid condenser="" evaporator="" or=""> temperature is detected as over 70°C after the compressor started. Abnormal if the temperature of over 70°C is detected again within 10 minutes after six-minute resume prevention mode.</liquid> 	 (Cooling or drying mode) ① Clogged filter (reduced airflow) ② Short cycle of air path ③ Low-load (low temperature) operation beyond the tolerance range ④ Defective indoor fan motor Fan motor is defective. Indoor controller board is defective. ⑤ Defective outdoor fan control ⑥ Overcharge of refrigerant ⑦ Defective refrigerant circuit (clogs) (Heating mode) 	 (Cooling or drying mode) ① Check clogging of the filter. ② Remove shields. ④ Refer to 6-7. DC Fan motor (FAN MOTOR/INDOOR CONTROLLER BOARD) ⑤ Check outdoor fan motor. ⑥ Check operating condition of refrigerant circuit. (Heating mode)
P6		 (I) Clogged filter (reduced airflow) (2) Short cycle of air path (3) Over-load (high temperature) operation beyond the tolerance range (4) Defective indoor fan motor (5) Fan motor is defective. (6) Indoor controller board is defective. 	 ④ Check clogs of the filter. ② Remove shields. ④ Refer to 6-7. DC Fan motor (FAN MOTOR INDOOR CONTROLLER BOARD)
		 Defective outdoor fan control Overcharge of refrigerant Defective refrigerant circuit (clogs) Bypass circuit of outdoor unit is defective. 	 ⑤ Check outdoor fan motor. ⑥~⑧Check operating condition of refrigeran circuit.
P8	Pipe temperature <cooling mode=""> Detected as abnormal when the pipe tem- perature is not in the cooling range 3 min- utes after compressor start and 6 minutes after the liquid or condenser/evaporator pipe is out of cooling range. Note 1) It takes at least 9 minutes. to detect. Note 2) Abnormality P8 is not detected in drying mode. Cooling range : -3 deg ≧ (TH-TH1) TH: Lower temperature between: liquid pipe temperature (TH2) and con- denser/evaporator temperature (TH5) TH1: Intake temperature <heating mode=""> When 10 seconds have passed after the compressor starts operation and the hot adjustment mode has finished, the unit is detected as abnormal when condenser/evaporator pipe temperature is not in heating range within 20 minutes. Note 3) It takes at least 27 minutes to</heating></cooling>	 Slight temperature difference between indoor room temperature and pipe <liquid or condenser / evaporator> temperature thermistor</liquid Shortage of refrigerant Disconnected holder of pipe <liquid <br="" condenser="" or="">evaporator> thermistor</liquid> Defective refrigerant circuit Converse connection of extension pipe (on plural units connection) Converse wiring of indoor/ outdoor unit connecting wire (on plural units connection) Defective detection of indoor room temperature and pipe <condenser evaporator=""> temperature thermistor</condenser> Stop valve is not opened completely. 	 ①~④ Check pipe <liquid <br="" condenser="" or="">evaporator> temperature with room temperature display on remote controller and outdoor controller circuit board. Pipe <liquid condenser="" evaporator="" or=""> temperature display is indicated by setting SW2 of outdoor controller circuit board as follows.</liquid></liquid> (Conduct temperature check with outdoor controller circuit board after connecting 'A-Control Service Tool(PAC-SK52ST)'. ③ Check converse connection of extension pipe or converse wiring of indoor/outdoor unit connecting wire.
	detect abnormality. Note 4) It excludes the period of defrosting (Detection restarts when defrost- ing mode is over) Heating range : 3 deg ≦ (TH5-TH1)		

rror Code	Abnormal point and detection method	Cause	Countermeasure
Р9	 Abnormality of pipe temperature thermistor / Condenser-Evaporator (TH5) The unit is in three-minute resume protection mode if short/open of thermistor is detected. Abnormal if the unit does not get back to normal within three minutes. (The unit returns to normal operation, if it has normally reset.) Constantly detected during cooling, drying, and heating operation (except defrosting) Short: 90°C or more Open: -40°C or less 	 Defective thermistor characteristics Contact failure of connector (CN44) on the indoor controller board (Insert failure) Breaking of wire or contact failure of thermistor wiring Temperature of thermistor is 90°C or more or -40°C or less caused by defective refrigerant circuit. Defective indoor controller board 	 ①-③ Check resistance value of thermistor. For characteristics, refer to (P1) above. ② Check contact failure of connector (CN44) on the indoor controller board. Refer to 6-5. Turn the power on and check restart after inserting connector again. ④ Operate in test run mode and check pipe <condenser evaporator=""> temperature. If pipe <condenser evaporator=""> tempera- ture is extremely low (in cooling mode) or high (in heating mode), refrigerant circuit may have defect.</condenser></condenser> ⑤ When no problems are found in ①-④ above, replace the indoor unit control board.
E0 or E4	 Remote controller transmission error(E0)/signal receiving error(E4) Abnormal if main or sub remote controller can not receive normally any transmission from indoor unit of refrigerant address "0" for three minutes. (Error code : E0) Abnormal if sub remote controller could not receive for any signal for two minutes. (Error code: E0) Abnormal if indoor controller board can not receive normally any data from remote controller board or from other indoor controller board for three minutes. (Error code: E4) Indoor controller board cannot receive any signal from remote controller for two minutes. (Error code: E4) 	 Contact failure at transmission wire of remote controller All remote controllers are set as "sub" remote controller. In this case, E0 is displayed on remote controller, and E4 is displayed at LED (LED1, LED2) on the outdoor controller circuit board. Mis-wiring of remote controller Defective transmitting receiving circuit of remote controller Defective transmitting receiving circuit of indoor controller board of refrigerant address "0" Noise has entered into the transmission wire of remote controller. 	 ① Check disconnection or looseness of indoor unit or transmission wire of remote controller? ② Set one of the remote controllers "main" if there is no problem with the action above. ③ Check wiring of remote controller. Total wiring length: max.500m (Do not use cable × 3 or more) The number of connecting indoor units: max.16units The number of connecting remote controller: max.2001er: max.2001er: max.2001er: max.2001er ④ Diagnose remote controllers. a) When "RC OK" is displayed, Remote controllers have no problem. Turn the power off, and on again to check If abnormality generates again, replace indoor controller board. b) When "RC NG" is displayed, Replace remote controller. c) When "RC C3" is displayed, (c),d) →Noise may be causing abnormality.
E3 or E5	 Remote controller transmission error(E3)/signal receiving error(E5) Abnormal if remote controller could not find blank of transmission path for six seconds and could not transmit. (Error code: E3) Remote controller receives transmitted data at the same time, compares the data, and when detecting it, judges different data to be abnormal 30 continuous times. (Error code: E3) Abnormal if indoor controller board could not find blank of transmission path. (Error code: E5) Indoor controller board receives trans- mitted data at the same time, compares the data, and when detecting it, judges different data to be abnormal 30 continuous times. (Error code: E5) 	 Two remote controller are set as "main." (In case of 2 remote con- trollers) Remote controller is connected with two indoor units or more. Repetition of refrigerant address Defective transmitting receiving circuit of remote controller Defective transmitting receiving circuit of indoor controller board Noise has entered into trans- mission wire of remote con- troller. 	 ① Set a remote controller to main, and the other to sub. ② Remote controller is connected with only or indoor unit. ③ The address changes to a separate setting. ④~⑥ Diagnose remote controller. a) When "RC OK"is displayed, remote controllers have no problem. Turn the power off, and on again to check. When becoming abnormal again, replace indoor controller board. b)When "RC NG"is displayed, replace remote controller. c)When "RC E3"or "ERC 00-66"is displayed noise may be causing abnormality.

Error Code	Abnormal point and detection method	Cause	Countermeasure
E6	 Indoor/outdoor unit communication error (Signal receiving error) Abnormal if indoor controller board cannot receive any signal normally for six minutes after turning the power on. Abnormal if indoor controller board cannot receive any signal normally for three minutes. Consider the unit as abnormal under the following condition: When two or more indoor units are connected to an outdoor unit, indoor controller board cannot receive a signal for three minutes from outdoor controller circuit board, a signal which allows outdoor controller circuit board to transmit signals. 	 Contact failure, short circuit or, mis-wiring (converse wiring) of indoor/outdoor unit connecting wire Defective transmitting receiving circuit of indoor controller board Defective transmitting receiving circuit of indoor controller board Noise has entered into indoor/ outdoor unit connecting wire. 	 Check LED display on the outdoor control circuit board. (Connect A-control service tool, PAC-SK52ST.) Refer to Outdoor manual. Check disconnection or looseness of indoor/outdoor unit connecting wire of indoor unit or outdoor unit. Check all the units in case of twin triple indoor unit system. (2) Turn the power off, and on again to check If abnormality generates again, replace indoor controller board or outdoor * Other indoor controller board may have defect in case of twin triple indoor unit system.
E7	Indoor/outdoor unit communication error (Transmitting error) Abnormal if "1" receiving is detected 30 times continuously though indoor controller board has transmitted "0".	 Defective transmitting receiving circuit of indoor controller board Noise has entered into power supply. Noise has entered into outdoor control wire. 	①-③ Turn the power off, and on again to check If abnormality generates again, replace indoor controller board.
Fb	Indoor controller board Abnormal if data cannot be read normally from the nonvolatile memory of the indoor controller board.	① Defective indoor controller board	① Replace indoor controller board.
E1 or E2	 Remote controller control board Abnormal if data cannot be read normally from the nonvolatile memory of the remote controller control board. (Error code: E1) Abnormal if the clock function of remote controller cannot be operated normally. (Error code: E2) 	① Defective remote controller	① Replace remote controller.
PA (2500)	 Water leakage This detection is performed during the operation (stop, heating, fan, or error stop mode etc.) other than cooling and dry. () When a) and b) are found, water leakage occurs. a) Pipe <liquid> temperature - inlet temperature < -10°C for 30 minutes</liquid> b) When drain float switch is detected to be soaked in the water for 15 minutes or more. * When drain float switch is detected to be NOT soaked in the water, each counting of a) and b) is cleared. *When this error is detected, the error will not be reset until the main power is reset.	 Mis-piping of extension pipes (When connected with multiple units) Mis-wiring of indoor/outdoor unit connecting wire (When connected with multiple units) Detection failure of the indoor unit inlet/ pipe <liquid> ther- mistor</liquid> Drain pump failure Drainage failure Clogged drain pump Clogged drain pipe Drain float switch failure Drain float switch is detected to be soaked in the water (ON status) due to the operation failure of the moving parts. Contact failure of drain float switch connector (Loose connector) 	 ①Check the extension pipes for mis-piping. ②Check the Indoor/outdoor unit connecting wire for mis-wiring. ③Check room temperature display on remote controller and indoor pipe liquid> temperature. (Refer to the countermeasure on P2.) ④Check if drain-up machine works. ⑤ Check drain function. ⑥Check drain float switch. (Refer to the countermeasure on P4 and P5.)

6-4. TROUBLESHOOTING BY INFERIOR PHENOMENA

Note: Refer to the manual of outdoor unit for the detail of remote controller.

	controller.		
Phenomena	Cause	Countermeasure	
(1)LED2 on indoor controller board is off.	 When LED1 on indoor controller board is also off. Power supply of rated voltage is not supplied to out- door unit. 	 Check the voltage of outdoor power supply terminal block (L, N) or (L₃, N). When AC 220~240V is not detected. Check the power wiring to outdoor unit and the breaker. When AC 220~240V is detected. —Check (2) (below). 	
	② Defective outdoor controller circuit board	 Check the voltage between outdoor terminal block S1 and S2. When AC 220~240V is not detected. Check the fuse on outdoor controller circuit board. Check the wiring connection. When AC 220~240V is detected. —Check ③ (below). 	
	③ Power supply of 220~240V is not supplied to indoor unit.	 Check the voltage between indoor terminal block S1 and S2. When AC 220~240V is not detected. Check indoor/outdoor unit connecting wire for mis-wiring. When AC 220~240V is detected. —Check ④ (below). 	
	(4) Defective indoor controller board	 Check the fuse on indoor controller board. Check the wiring connection. If no problem are found, indoor controller board is defective. 	
(2)LED2 on indoor controller board is blinking.	When LED1 on indoor controller board is also blinking. Connection failure of indoor/outdoor unit connecting wire When LED1 is lite	Check indoor/outdoor unit connecting wire for connection failure.	
	When LED1 is lit. Mis-wiring of remote controller wires Under twin triple indoor unit system, 2 or more indoor units are wired together.	① Check the connection of remote con- troller wires in case of twin triple indoor unit system. When 2 or more indoor units are wired in one refrigerant system, connect remote controller wires to one of	
	 Refrigerant address for outdoor unit is wrong or not set. Under grouping control system, there are some units whose refrigerant address is 0. 	 Check the setting of refrigerant address in case of grouping control system. If there are some units whose refrigerant addresses are 0 in one group, set one of the units to 0 using SW1 (3-6) on outdoor 	
	 ③ Short-cut of remote controller wires ④ Defective remote controller 	 controller circuit board. (3) Remove remote controller wires and check LED2 on indoor controller board. When LED2 is blinking, check the short-cut of remote controller wires. When LED2 is lit, connect remote controller wires again and: if LED2 is blinking, remote controller is defective; if LED2 is lit, connection failure of remote controller terminal block etc. has returned to normal. 	



6-6. TROUBLE CRITERION OF MAIN PARTS SEZ-KD25VA(L) SEZ-KD35VA(L) SEZ-KD50VA(L) SEZ-KD60VA(L) SEZ-KD71VA(L)

Part name	Check method and criterion			
Room temperature thermistor (TH1)	Measure the resistance with a tester. (Part temperature 10°C ~ 30°C)			
	Normal Abnormal			
Pipe temperature thermistor/liquid (TH2)	8kΩ~20kΩ Opened or short-circuited			
Condenser/evaporator temperature thermistor (TH5)				
Wiring diagram	Motor			
	Vm (Power supply for motor) Vcc (Power supply for control) Vsp (Speed command voltage) PG (Pulse output for rotation) GND Current detecting resistor	9		

6-7. DC FAN MOTOR (FAN MOTOR/ INDOOR CONTROLLER BOARD)

Check method of DC fan motor (fan motor / indoor controller circuit board)

① Notes

· High voltage is applied to the connecter (CNMF) for the fan motor. Give attention to the service.

- · Do not pull out the connector (CNMF) for the motor with the power supply on.
- (It causes trouble of the indoor controller circuit board and fan motor.)
- 2 Self check

Symptom : The indoor fan cannot turn around.



Exercise caution when removing heavy parts.



7

1. Control box

- 1. Removing the control box cover
- (1) Remove the two fixing screws on the cover (A) to remove it.







Fig. 2

2. Thermistor (Intake air)

- 1. Remove the control box cover according to the procedure in section [1].
- (1) Pull out the thermistor holder (B) and thermistor (C) on the control box.



Fig. 3

Exercise caution when removing heavy parts.

3. Drainpan

1. Removing the filter and the bottom plate

2. Removing the drainpan

arrow 1.

- Push up the tab on the filter, and pull out the filter in the direction of the arrow 1.
 Bergeve the fixing screws on the bottom plate
- (2) Remove the fixing screws on the bottom plate (D), (E) to remove it.

(1) Pull out the drain pan in the direction of the



Fig. 4



Fig. 5



- Drain the water out of the drain pan before removing it.
- To avoid dew condensation, use insulated screws in the places marked with circles in Fig. 6.





Exercise caution when removing heavy parts.

4. Thermistor (Condenser / evaporator) (Liquid pipe)

- 1. Remove the drain pan according to the procedure in section [3].
- Removing the Heat exchanger cover
 Remove the four fixing screws on the heat exchanger cover (F) to remove it.





- 3. Removing the thermistor
- (1) Remove the thermistor (G) from the thermistor holder (H) on the copper tube.

Thermistor size Liquid pipe: ø8mm Condenser / evaporator: ø6mm



Fig. 8

Exercise caution when removing heavy parts.

5. Fan and fan motor

- 1. Removing the filter and the bottom plate
- (1) Push down the tab on the filter, and pull out the filter in the direction of the arrow 1.

2. Removing the fan casing (bottom half)

it in the direction of arrow 2.

(1) Squeeze the tabs on the fan casing to remove

(2) Remove the fixing screws on the bottom plate(J) to remove it.



Fig. 9



- 3. Removing the motor cable(1) Remove the motor cable threw the rubber bush.
- 4. Removing the fan motor and the Sirocco fan
- Remove the two motor fixing screws to remove the motor and the Sirocco fan in the direction of arrow 3.

Fig. 10





- - Fig. 12

(2) Remove the four fan case fixing screws to take the top half of the fan casing off.

Exercise caution when removing heavy parts.

6. Bearing [KD50·60·71VA(L) model only]

- 1. Removing the bearing
- (1) Remove the two fixing screws on the bearing cover (K) to remove it.





(2) Remove the two bearing retainer screws to remove the bearing.



Fig. 14

7. Heat exchanger

- 1. Remove the drain pan according to the procedure in section [3].
- 2. Remove the heat exchanger cover according to the procedure in section [4] 2.
- 3. Removing the cover
- (1) Remove the two fixing screws on the cover (L) to remove it.





- 4. Removing the Heat exchanger
- (1) Remove the fixing screws on the heat exchanger (M) to remove it.



Fig. 16

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