Problem	Outdoor		nction o.*	Content o	f diagnosis	Charle maint	Antion
symptom	indica- tion (LED1)	Main	ain Sub Main Sub		Sub	Check point	Action
Indoor unit operates.	2-time	2	1	Cycle temperature	Compressor discharge overheat.	(Temporary stop for cycle protection)	-
Outdoor unit does not oper- ate			2		Outdoor unit heat exchanger overheat.		-
temporarily			3		Indoor unit heat exchanger overheat.		-
							-
Indoor and outdoor units do not operate.			5		IPM high temperature error	(1) Check the outdoor unit air outlet for blockage. (2) Check the outdoor unit fan for proper rotation. (3) No abnormality found in above inspections (1) and (2).	(1)Ensure unobstructed air flow from the outdoor unit air outlet. (2)Check the outdoor unit fan motor. (3)Replace the outdoor unit control PWB.
Indoor unit operates. Outdoor unit does not operate temporari- ly.	3-time	3	0	Dry operation	Temporary stop due to dehumidi- fying operation	(Temporary stop for cycle protection).	-
Indoor and outdoor units do	5-time	5	0	Outdoor unit thermistor open-circuit	Heat exchanger thermistor open circuit error	Check connector of out- door unit thermistor for secure installation.	1) Correct the installation.
not operate.			1		Outdoor temper- ature thermistor open circuit error	Measure resistance of outdoor thermistors. Check the lead wires of	Replace the outdoor unit thermistor assembly. Replace the outdoor
			2		Suction thermistor open circuit error	thermistors on the out- door unit control PWB for open-circuit. 3) Re un	
			3		2-way valve thermistor open circuit error.		unit thermistor assem- bly.
			4		Discharge thermistor open circuit error		4) Replace the outdoor
			5		Heat sink ther- mistor open circuit error		unit control PWB as- sembly.
Indoor and outdoor	6-time	6	0	Outdoor unit DC Current	DC over current error	1) Go to "DC Over Current E	rror (6-0 error)".
units do not oper- ate.			1		IPM pin level error	Check the IPM is attached correctly to the outdoor unit IPM PWB.	Replace the outdoor unit PWB.

Problem	Outdoor	1	unction lo.*	Content o	f diagnosis		
symptom	indica- tion (LED1)	Main	Sub	Main	Sub	Check point	Action
Indoor and outdoor units do	7-time	7	0	Outdoor unit AC Current	AC over current error	Check the outdoor unit air outlet for blockage.	Ensure unobstructed air flow from the outdoor unit air outlet.
not oper- ate.						Check the outdoor unit fan for proper rotation.	Check the outdoor unit fan motor.
			1		AC current error when OFF	1) IPM continuity check.	Replace the outdoor IPM PWB.
			2		AC maximum current error	Check the outdoor unit air outlet for blockage.	Ensure unobstructed air flow from the outdoor unit air outlet.
						Check the outdoor unit fan for proper rotation.	Check the outdoor unit fan motor.
			3		AC current defi- ciency error	Check if there is an open-circuit in the secondary winding of the current transformer of the outdoor unit control PWB.	Replace the outdoor unit control PWB assembly.
						Check if the refrigerant volume is abnormally low.	Charge the specified amount of refrigerant.
						Check if the refrigerant flows properly.	Correct refrigerant clogs. (Stop valve, pipe, expansion valve).
Indoor and outdoor units do not	9-time	9	0	Cycle temperature	Thermistor installation error or 4-way valve error.	1)Check the thermistor (heat exchanger) and (2-way valve) are installed in correct positions.	1)Correct the installation.
operate.						2)Check resistance of ther- mistors (heat exchanger and 2-way valve).	2)Charge the specified amount of refrigerant.
						3)Check the 4-way valve for proper operation.	3)Replace the 4- way valve.
						4)No abnormality found in above inspections (1), through(3).	4)Replace the outdoor unit control PWB assembly.
Indoor and outdoor units do not			4		4 way valve error or Gas leak error.	Check the indoor/ outdoor heat exchanger thermistors are installed in correct positions.	1) Correct the installation.
operate.						Check if the refrigerant volume is abnormally low.	Change the specified amount of refrigerant.
						Check the 4-way valve for proper operation.	3) Replace the 4-way valve.
Indoor and outdoor units do	10-time	10	2	EEPROM error	CPU(outdoor) RAM data error	-	Replace the outdoor unit control PWB as- sembly.
not operate.			3		CPU error		Combiy.

Problem	Outdoor unit		nction o.*	Content o	f diagnosis		
symptom	indica- tion (LED1)	Main	Sub	Main	Sub	Check point	Action
Indoor and outdoor units do	11-time	11	1	Outdoor unit DC fan	Outdoor unit DC fan driver IC error	Check if the fan IPM ter- minal resistance values are uniform.	Replace the outdoor unit control PWB as- sembly.
not operate.						Outdoor unit fan motor continuity check.	Replace the outdoor unit fan.
			2		Outdoor unit DC fan lock error	Check if the fan IPM ter- minal resistance values are uniform.	Replace the outdoor unit control PWB as- sembly.
						2) (1): Normal	Replace the outdoor unit fan.
			3	Outdoor unit DC fan	Detection error of DC fan negative rotation before compressor is driven	(Temporary stop for DC fan circuit protection)	-
			4		Detection error of inverter current for DC fan	-	Replace the outdoor unit control PWB as- sembly.
			5		Outdoor unit DC fan open connector error	Check connector CN3 of the outdoor unit DC fan motor for secure installa- tion.	1) Correct the installation.
						2) No abnormality found in above inspection (1).	Replace the outdoor unit control PWB assembly.

Problem un	Outdoor unit	Malfunction No.*		Content o	f diagnosis	Charle maint	
symptom	indica- tion (LED1)	Main	Sub	Main	Sub	Check point	Action
Indoor and outdoor	outdoor	13	0	DC compressor	Compressor startup error	1) Check the colors (red, white, orange) of the	1) Correct the installation. (U: Red, V: White, W:
units do not operate.			2		Compressor rotation error. (at 180° energizing)	compressor cords for proper connection. (PWB side, compressor side) 2) Check if the IPM terminal resistance values are uniform.(Refer to IPM check method.) 3) Check if outdoor main relay (MRY1) turns on and DC voltage DB1(⊕ - ⊝)has become DC290-330V. 4) No abnormality found in above inspections (1) through (3).	Orange) 2) Replace the outdoor unit control PWB assembly. 3) Replace the outdoor unit control PWB assembly. 4) Replace the compressor.
Indoor and outdoor units do not operate.	14-time	14	1 2	Outdor unit PAM	PAM over voltage error PAM clock error Abnormal power supply voltage / DC low voltage.	1) Check the AC power supply voltage for fluctuation. 2) No abnormality found in above inspection. 1) Check the PAM clock for proper input. 1) Check the AC power supply voltage for fluctuation. 2) No abnormality found in above inspection.	1) Correct the installation. 2) Replace the PWB assembly. 1) Replace the outdoor unit control PWB assembly. 1) Correct the installation. 2) Replace the PWB assembly.

Problem	Outdoor		nction o.*	Content o	f diagnosis	Observation (Astion
symptom	indica- tion (LED1)	Main	Sub	Main	Sub	Check point	Action
Indoor unit operates. Outdoor	Lighting or OFF	17	0	Wiring between units	Serial opencircuit	Check the wires between units.	Connect stable power supply. Correct the wiring.
unit does not operate.						Check voltage between N and 1 the indoor/out- door unit terminal boards.	Replace the outdoor unit control PWB assembly.
						3) Check the outdoor unit fuse.	Replace the fuse/ out- door unit control PWB assembly.
						4) Check voltages of 15V-0V,12V-0V and 5V- 0V on the PWB. 15V-0V :15V 12V-0V :12V 5V-0V :5V Check resistance be- tween IPM terminals.	Replace the outdoor unit control PWB assembly.
						5) No abnormality found in above inspections (1) through (4).	Replace the outdoor unit control PWB board.
Indoor unit operates. Outdoor unit does not operate.	Lighting or OFF	18	0	Wiring between units	Serial short-cir- cuit	Check the wiring between units.	1) Correct the wiring.
Indoor and outdoor units do not operate.			1		Serial erroneous wiring	Check the wiring between units.	1) Correct the wiring.
Indoor and outdoor units do not	Normal blinking or OFF	19	0	Indoor unit fan	Indoor unit fan error	Check the indoor fan motor for proper rotating operation. (Check fan lock.)	Replace the indoor fan motor.
operate.						Check the lead wire of the indoor fan motor for open-circuit.	Replace the indoor fan motor.
						Check connector of the indoor unit fan motor for secure installation	Correct the installation of the indoor fan motor connector.
						4) No abnormality found in above inspections (1) through (3).	Replace the indoorunit control PWB
Indoor and outdoor units do not operate.	Normal blinking or OFF	20	0	Indoor unit control PWB	EEPROM data error	1) (EEPROM read data error)	Replace the indoor unit control PWB

Problem	Outdoor	Malfunction No.*		Content o	f diagnosis		
symptom	indica- tion (LED1)	Main	Sub	Main	Sub	Check point	Action
Indoor and outdoor units	Normal blinking or OFF	24	0	Wireless LAN	WLAN module communication error	Check WLAN module and related circuit.	Confirm assembly. Confirm WLAN module.
operate			1		Wireless router connection error	1) Check Wireless router.	Confirm connecting with wireless router. Confirm setting of wireless router.
Indoor and outdoor units operate	outdoor blinking units or OFF		1	Indoor unit room temperature thermistor	Indoor unit room temperature thermistor	Check connector of thermistor for secure installation. Check the temperature	1)Replace the thermistor.
			2	Indoor unit pipe temperature thermistor	Indoor unit pipe temperature thermistor	properties of the thermistor.	
			3	Indoor unit valve temperature thermistor	Indoor unit valve temperature thermistor		

4.OTHER MALFUNCTION ERROR INDICATION / BUZZER

4.1 If the LED lamp on indoor unit indicate as below when unit is not operating, the error information as below. (not refer to 3.CHART FOR READING SELF-DIAGNOSIS RESULT)

MALFUNCTION	Lamp (The lam	flashing(flas p not flashing no	h 1 sencond g show the o rmally.)	Error code(main) and error information	
III/LEI GITGITGIT	OPERATION LAMP (GREEN)	TIMER (ORANGE)	WLAN (GREEN)	PLASMACLUSTER (BLUE)	2.161 3335(main) and 3.161 mismaion
Vertical louver (V-louver)	>∘<	<u></u> >0<			21, Vertical louver (V-louver) L/R guide not assembled well or disassembled.

4.2 If the LED lamp on indoor unit indicate when unit is operating,

MALFUNCTION	Lamp (The lamp	flashing(flas not flashing no	h 1 sencond յ show the օր rmally.)	- Error code(main) and error information		
MALI UNCTION	OPERATION LAMP (GREEN)	TIMER (ORANGE)	WLAN (GREEN)	PLASMACLUSTER (BLUE)	End code(mail) and end midmation	
Serial opencircuit		>∘<			17, Serial opencircuit	
adapter communication	LED lamp fl	ash just 5 sen	conds with bu	24, adapter communication error		
error (Adapter not applicable)			>o<		(Adapter not applicable) ** Refer to [WLAN GUIDE BOOK]	
	Flash just 10	senconds aff	er operation s			
DO				⇒ o ∈	operation over 17,500 hours(※ 1)	
PCI	Flash just 1	minute after o	peration start	•		
				> ∘<	operation over 19,000 hours(※ 2)	

※ 2 : If PLASMACLASTER operation overed 19,000 hours, the PLASMACLASTER lamp will turn off during operation. And the unit will stop releasing PLASMACLASTER ion. The LED lamp will flash as above when unit start PLASMACLASTER operation again. Other operation (e.g. Cooling and Heating) can run as usual.

4.3 Error without indication