

Thermistor Resistance Chart

	MODELS: ALL R410A INDOOR UNITS				MODELS: ALL R410A OUTDOOR UNITS				
	Room T Thermistor	Room T Thermistor w/ board	Indoor Pipe Thermistor	Indoor Pipe Thermistor w/ board	Discharge/ Compressor Thermistor	Outdoor Pipe Thermistor	Outdoor Temperature Thermistor	Heat Sink Thermistor	2/3 Way Valve Thermistor
Temp °F(°C)	Ohms kΩ	Ohms kΩ	Ohms kΩ	Ohms kΩ	Ohms kΩ	Ohms kΩ	Ohms kΩ	Ohms kΩ	Ohms kΩ
-4(-20)						49.20	115.24		
5(-15)						36.58	84.21		
14(-10)						27.51	62.28		312
23(-5)						20.91	46.58		233
32(0)	33.62	8.29	176.03	39.48	175.70	16.05	35.21	16.1	176
41(5)	25.93	-	134.23	-	134.93	12.44	26.88	12.4	134
50(10)	20.18	7.12	103.34	34.10	104.59	9.73	20.72	9.73	103
59(15)	15.84	-	80.28	-	81.79	7.67	16.12	7.67	80.3
68(20)	12.54	5.86	62.91	28.14	64.50	6.10	12.64	6.10	62.9
77(25)	10.00	5.24	49.70	25.15	51.27	4.89	10.00	-	-
86(30)	8.04	4.64	39.57	22.26	41.07	3.95	7.97	3.95	39.6
95(35)	6.51	-	31.74	-	33.13	3.21	6.40	-	-
104(40)	5.30	3.58	25.64	17.05	26.91	2.62	5.18	2.62	25.6
113(45)	4.35	-	20.85	-	22.01	2.16	4.21	-	-
122(50)	3.59	2.71	17.06	12.78	18.10	1.79	3.45	1.79	17.1
131(55)	2.98	-	14.10	-	14.98	1.49	2.85	-	-
140(60)	2.47	2.03	11.64	9.47	12.47	1.25	2.36	1.25	11.6
149(65)	2.09		9.69		10.44	1.05	1.97	-	-
158(70)	1.76		8.12		8.78	0.89	1.65	0.89	8.12
167(75)	1.49		6.83		7.42	0.76	1.39	-	-
176(80)	1.27		5.78		6.31	0.65	1.18	0.65	5.78
185(85)	1.09		4.91		5.38	0.56	1.00	-	-
194(90)	0.93		4.19		4.61	0.48	0.85	0.48	4.19
203(95)	0.81		3.59		3.97	0.41	0.73	-	-
212(100)	0.70		3.09		3.43	0.36	0.63	0.36	3.09
221(105)					2.98			-	
230(110)					2.59			0.27	
239(115)					2.26			-	
248(120)					1.99			0.21	
284(140)					1.21				
320(160)					0.77				
356(180)					0.51				



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Wall Mounted Systems

9CQ, 9RQ, 9R2, 9RLQ, 9RL, 9RLS, 12CQ, 12RQ, 12R2, 12RLQ, 12RL, 12RLS, 15RLQ, 15RLS, 18CL, 18RL, 18RLQ, 18RLXQ, 18RLXS, 24CL, 24CL1, 24RLQ, 24RLXQ, 24RLXS, 30RLX, 30CLX, 30CLX1, 30RLXQ, 36CLX, 36CLX1

Error Indication		Wired	Error	Diagnosis Method
Operation	Timer	Remote		
OFF	0.5 sec 2 Times	01	Serial reverse transfer error at start up operation	Communication error - At Start Up, Evaporator and Condenser are not communicating. -Check wiring from panel to condenser, condenser to evaporator. Wire nuts and splices are not recommended. Check for correct voltage at panel, condenser and evaporator. Refer to the Service Instruction manual - Serial Signal troubleshooting for further details.
	0.5 sec 3 Times	01	Serial reverse transfer error during operation	Communication error - During operation, Evaporator and Condenser did not communicate for 10 consecutive seconds. -Check wiring from panel to condenser, condenser to evaporator. Check for correct voltage at panel, condenser and evaporator. Refer to the Service Instruction manual - Serial Signal troubleshooting for further details.
	0.5 sec 4 Times	13	Serial forward transfer error at start up operation	Communication error - At the start up, Evaporator and Condenser are not communicating. -Reset power. If error code reappears check wiring from panel to condenser, condenser to evaporator. Check for correct voltage at panel, condenser and evaporator. Refer to the Service Instruction manual - Serial Signal troubleshooting for further details.
	0.5 sec 5 Times	13	Serial forward transfer error during operation	Communication error - During operation, Evaporator and Condenser did not communicate for 10 consecutive seconds. -Reset power. If error code reappears check wiring from panel to condenser, condenser to evaporator. Check for correct voltage at panel, condenser and evaporator. Refer to the Service Instruction manual - Serial Signal troubleshooting for further details.
	0.5 sec 8 Times	00	Wire Remote Controller error	Communication error - Evaporator and wire remote controller are not communicating. -Check wiring between evaporator and wire remote controller. -Check for DC 12V at evaporator connector. If voltage present replace wire remote control.
0.5 sec 2 Times	0.5 sec 2 Times	02	Room temperature thermistor error	Abnormal temperature detected. -Check thermistor for open or short. Check thermistor resistance value (Refer to "Thermistor characteristics table"). -Controller PCB defective.
	0.5 sec 3 Times	04	Indoor heat exchanger thermistor error	
0.5 sec 3 Times	0.5 sec 2 Times	0C	Discharge thermistor error	
	0.5 sec 3 Times	06	Outdoor heat exchanger thermistor error	
	0.5 sec 4 Times	0A	Outdoor temperature thermistor error	
0.5 sec 8 Times	15	Compressor Temperature Thermistor Error		
0.5 sec 4 Times	0.5 sec 2 Times	No Display	Forced auto switch error	Forced auto switch open (pushed in) for 30 consecutive seconds or more. -Check if forced auto switch is kept pressed. -Controller PCB defective.
	0.5 sec 3 Times	No Display	Main Relay error	After 2 minutes 20 seconds of stopped operation, the signal from the outdoor unit is received even though the main relay is OFF. -Check if Main relay is defective. -Controller PCB defective.
	0.5 sec 4 Times	No Display	Power supply frequency detection error	The power supply frequency can not be recognized after 4 seconds of Power ON. Permanent STOP. -Controller PCB defective.
	0.5 sec 7 Times	No Display	VDD permanent STOP protection (electric air cleaner)	Electric Air Cleaner error - When the air cleanness monitor trial protection operates 4 times. -Check the front panel and ensure it is closed. -Check IAQ micro switch for open/close operation.
	0.5 sec 8 Times	21	Reverse VDD (Electric air clean power supply circuit abnormal)	IAQ error code - The air clean operation signal was detected for 1 minute at the time of air clean mode was OFF. -Electric air cleaner defective. -Controller PCB defective.
0.5 sec 5 Times	0.5 sec 2 Times	17	IPM protection	Abnormal current value at the IPM is detected. Heat radiation is blocked (inlet/outlet). -Check if outdoor fan is defective (does not rotate). -IPM/Controller PCB defective. Check Refrigeration cycle for under/over charge conditions.
	0.5 sec 3 Times	18	CT error	Current Transfer error - The current value during the operation after 1 minute from starting up the compressor drops to zero (0) Amps. -Check if CT wire is open. See Service Manual for schematic on each model. -Controller PCB defective.
	0.5 sec 5 Times	1A	Compressor location error	Compressor Detection - The compressor speed does not synchronize with the control signal. (Including start up failure of the compressor.) -Check if 2-way valve or 3-way valve are open. Check the compressor (Winding resistance value, loose lead wire). -Check Refrigeration cycle condition.
	0.5 sec 6 Times	1B	Outdoor fan error (DC Motor)	Condenser fan motor error - Abnormal current or fan motor lock error was detected. -Check Fan motor connector loose/defective contact. Rotate fan motor by hand to ensure it is not locked. Check DC 150-380V on fan motor between Red & Black wire. Check DC 15V between Black & White wire. Voltage not present. -Controller PCB defective.
	0.5 sec 7 Times	1F	Model Match Error Connected indoor unit error	Apparent model information error from EPROM (miss match). 3 continuous failure of lead test of EPROM at Power ON, Voltage drop or noise, etc. - Controller PCB defective.
0.5 sec 6 Times	0.5 sec 2 Times	No Display	Indoor fan lock error	Evaporator fan motor error - The indoor fan speed is 0 RPM after 56 seconds from starting operation. -Check if Fan motor connector loose/defective contact. Rotate fan motor by hand to ensure it is not locked. -Controller PCB defective.
	0.5 sec 3 Times	No Display	Indoor fan speed error	Evaporator fan motor error - The indoor fan speed is 1/3 of the target frequency after 56 seconds from starting operation. -Check if Fan motor connector loose/defective contact. Rotate fan motor by hand to ensure it is not locked. -Controller PCB defective.
0.5 sec 7 Times	0.5 sec 2 Times	0F	Discharge temperature error	The discharge temperature error is activated. Heat radiation is blocked. -Check for closed 2-way valve or 3-way valves. Check for leaks at line set, condenser and evaporator. -Refrigeration cycle defective. Check for restrictions at line set, low charge.
	0.5 sec 3 Times	24	Excessive high pressure protection on cooling	Excessive high pressure protection on cooling mode has been activated. Heat radiation is blocked. -Check for closed 3-way valves. Check for running compressor with outdoor fan OFF. -Check if outdoor fan is defective. Refrigeration cycle defective. Check for high pressure, over charged.
	0.5 sec 5 Times	16	Pressure Switch Error	If the pressure switch is open for 10 sec. when the power is turned on - Error will reset when pressure becomes normal. -Check interruption of heat radiation (Air intake/Outlet). Check outdoor fan operation (does not rotate). -Check refrigerant cycle. Check for high pressure, over charged.
0.5 sec 7 Times	0.5 sec 6 Times	2b	Compressor Temp Error	When the compressor becomes hotter than 226.4°F (108°C), unit stops. -Check for closed 2/3 way valves, EEV failure, Low Charge, Compressor Thermistor failure, outdoor fan failed, outdoor heat exchanger clogged.
0.5 sec 8 Times	0.5 sec 2 Times	19	Active Filter Error (Permanent Stop)	Output voltage error of Active filter is detected. -Check the wiring connection (connector is loose/open. Choke coil) -Active Filter Module/Controller PCB defective.
	0.5 sec 3 Times	19	Active Filter Error	Output voltage error of Active filter is detected. -Check the wiring connection (connector is loose/open. Choke coil) -Active Filter Module/Controller PCB defective.
	0.5 sec 4 Times	25	PFC circuit error	Excessive voltage of DC V on PFC circuit in inverter PCB is detected. -Controller PCB defective.
ALL LED's Blink Operation, Timer, Air Clean 0.1 sec ON/OFF		11	Model Match Error	Apparent model information error from EPROM (miss match). 3 continuous failure of lead test of EPROM at Power ON, Voltage drop or noise, etc. -Controller PCB defective.

Wall Mounted Systems

9RLS3, 9RLS3H, 12RLS3, 12RLS3H, 15RLS3, 15RLS3H, 18RLB, 24RLB, 30RLXB, 36RLXB

Error Indication			Wired Remote	Error	Diagnosis Method
Operation	Timer	Economy			
1 Time	1 Time	Continuous	11	Serial Communication Error	Communication Error – At Start Up, Evaporator and Condenser are no communicating. -Check wiring from panel to condenser, condenser to evaporator. Wire nuts and splices are not recommended. Check for correct voltages at panel, condenser and evaporator. Refer to the Service Instruction manual – Serial Signal troubleshooting for further details.
1 Time	2 Times	Continuous	12	Wired Remote Controller Communication Error	Wired Remote Controller Communication Error – When the indoor unit cannot receive the signal from the Wired Remote Control for more than 1 minute during normal operation. -Check the connection of terminal between remote control and indoor unit and check if there is a disconnection of the cable.
3 Times	2 Times	Continuous	32	Indoor Unit Model Information Error EEPROM Access Abnormal	EEPROM Error – Electronically Erasable and Programmable Read Only Memory. It is a non-volatile memory which keeps memorized information even if power is turned off. It can change the contents electronically. To change the contents, it uses higher voltage than normal, and cannot change partial contents. Rewriting shall be done upon erasing all the contents. There is a limit in a number of rewriting. -Check if the ground connection is proper. -Check if there is any equipment that causes harmonic wave near the power cables, i.e. neon light bulb.
3 Times	5 Times	Continuous	35	Manual Auto Switch Error	Manual Auto Switch Error – When the Manual Auto Switch becomes On for 60 or more consecutive seconds. -Check if Manual Auto switch is kept pressed. Check On/Off switching operation by using a meter.
4 Times	1 Time	Continuous	41	Indoor Room Thermistor Error	Indoor Room Thermistor Error – Abnormal temperature detected. -Check thermistor for open or short. Check thermistor resistance value. (Refer to "Thermistor characteristics table"). -Controller PCB defective.
4 Times	2 Times	Continuous	42	Indoor Heat Ex. (Pipe) Thermistor Error	Indoor Heat Ex. (Pipe) Thermistor Error – Abnormal temperature detected. -Check thermistor for open for open or short. Check thermistor resistance value (Refer to "Thermistor characteristics table"). -Controller PCB defective.
5 Times	1 Time	Continuous	51	Indoor Unit Fan Motor Error	Indoor Unit Fan Motor Error – When the condition that actual frequency of indoor fan is below 1/3 of target frequency is continued more than 56 seconds. -Check rotation of fan. -Check ambient temperature around motor. -Check indoor unit fan motor resistance values. -Replace controller PCB.
5 Times	8 Times	Continuous	58	Intake Grille Error	Intake Grille Error – When the micro switch is detected open while running the compressor. -Check limit switch. -Check connector (CN11) / wire. -Replace controller PCB.
6 Times	2 Times	Continuous	62	Outdoor Unit Main PCB Error	Outdoor Unit Main PCB Error – Access to EEPROM failed due to some cause after outdoor unit started. -Reset power supply and operate. -Check external cause voltage drop, poor ground connection. -Replace Main PCB.
6 Times	4 Times	Continuous	64	PFC Circuit Error (9/12RLS3) Active Filter Error (15RLS3)	PFC Circuit Error (9/12RLS3) – When inverter output DC voltage is higher than 415V for over 3 seconds, the compressor stops. If the same operation is repeated 5 times, the compressor stops permanently. -Check external cause at the indoor and outdoor (voltage drop or noise). -Check connection of connector, loose, erroneous connection. -Replace Main PCB. Active Filter Error (15RLS3) – When inverter input DC voltage is higher than 425v or lower than 80V. When a momentary power cut off occurred on low voltage. -Check external cause at the indoor and outdoor (voltage drop or noise). -Check connection of connector, loose, erroneous connection. -Check Active Filter Module resistance values. -Replace Main PCB.
6 Times	5 Times	Continuous	65	IPM Error	IPM Error – Abnormal current value at the IPM is detected. Heat radiation is blocked (inlet/outlet). -Check connections of outdoor unit electrical components. -Check outdoor fan, heat exchanger. -Check compressor resistance values.
7 Times	1 Time	Continuous	71	Discharge Thermistor Error	Discharge Thermistor Error – When discharge pipe temperature thermistor open or short-circuit is detected at power on or while running the compressor. -Check connection of connector, loose, erroneous connection. -Check thermistor for open for open or short. Check thermistor resistance value (Refer to "Thermistor characteristics table"). -Check voltage of Main PCB.
7 Times	3 Times	Continuous	73	Heat Ex. (Pipe) Thermistor Error	Heat Exchanger (Pipe) Thermistor Error – When heat exchanger temperature thermistor open or short-circuit is detected at power on or while running the compressor. -Check connection of connector, loose, erroneous connection. -Check thermistor for open for open or short. Check thermistor resistance value (Refer to "Thermistor characteristics table"). -Check voltage of Main PCB.
7 Times	4 Times	Continuous	74	Outdoor Thermistor Error	Outdoor Thermistor Error – When outdoor temperature thermistor is open or a short-circuit is detected at power on or while running the compressor. - Check connection of connector, loose, erroneous connection. -Check thermistor for open for open or short. Check thermistor resistance value (Refer to "Thermistor characteristics table").
8 Times	4 Times	Continuous	84	Current Sensor Error	Current Sensor Error – When input current sensor has detected 0A, while the inverter compressor is operating at higher than 56rps, after 1 minute upon starting the compressor. (Except during defrost operation) -Check if terminal connection is loose. -Check if connector is removed. -Check if erroneous connection.
9 Times	4 Times	Continuous	94	Over Current Error	Trip Detection – Protection stop by overcurrent generation after inverter compressor start processing completed generated consecutively 10 times. The number of generations is reset f the start-up of the compressor succeeds. -Clogged heat exchanger. -Condenser fan motor defective. -Discharged air not sucked in.
9 Times	5 Times	Continuous	95	Compressor Control Error	Compressor Motor Control Error – If the detected rotor location is out of phase with actual rotor location more than 90 degrees, the compressor stops. After the compressor restarts, if the same operation is repeated within 40 seconds, the compressor stops again. -Check if connector is removed. -Check erroneous connection. -Check if cable is open.
9 Times	7 Times	Continuous	97	Outdoor Unit Fan Motor Error	Outdoor Unit Fan Motor Error – When outdoor fan motor rotation speed is less than 100rpm in 20 seconds after fan motor starts, fan motor stops. After fan motor restarts, if the same operation within 60 seconds is repeated 3 times in a row, compressor and fan motor stops. -Check rotation of fan, locked motor, or resistance for motor to rotate. -Check ambient temperature around motor, excessive high temperature around motor or surrounding equipment that causes heat. -Ohm fan motor windings, check for DC voltage to motor.
9 Times	9 Times	Continuous	99	4-Way Valve Error	4-Way Valve Error – When the indoor heat exchanger temperature is compared with the room temperature, and either following condition is detected continuously two times, the compressor stops: • Cooling or Dry operation [Indoor heat exchanger temp.] – [Room temp.] > 20°F (10°C) • Heating operation [Indoor heat exchanger temp.] – [Room temp.] < -20°F (-10°C) -Check connection of molex plug. -Check each thermistor. -Check the solenoid coil and 4-way valve. -Check voltage of 4-way valve.
10 Times	1 Time	Continuous	A1	Discharge Temperature Error	Discharge Temperature Error - Protection stop by discharge temperature ≥230°F (110°C) during compressor operation generated 2 times within 24 hours. -Check if 3-way valve is open. -Check EEV, strainer. -Check outdoor unit fan, heat exchanger. -Check discharge thermistor. -Check refrigerant amount, leak check.
10 Times	3 Times	Continuous	A3	Compressor Temperature Error	Compressor Temperature Thermistor Error – Protection stop by compressor temperature ≥226°F (107.8°C) during compressor operation generated 2 times within 24 hours. -Check if 3-way valve is open. -Check EEV, strainer. -Check outdoor unit fan, heat exchanger. -Check compressor thermistor, loose connection. -Check refrigerant amount, leak check.

Factory Charge

Additional Charge Calculation

SYSTEM	Pre-charge Amount	Pre-charge Length	Max Length	Additional Charge	Minimum Length	Locked Rotor Amps
9R2	1 lb. 10 oz.	25 ft.	49 ft.	.21 oz./ft.	9 ft.	47A
9CQ	1 lb. 9 oz.	25 ft.	49 ft.	.2 oz./ft.	9 ft.	47A
9RQ	1 lb. 10 oz.	25 ft.	49 ft.	.2 oz./ft.	9 ft.	47A
9RLQ	2 lbs. 2 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	26A
9RL	1 lb. 7 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	26A
9RLS	2 lbs. 9 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	26A
9RLS2 / 9RLS2H	2 lbs. 10 oz.	49 ft.	66 ft.	.21 oz./ft.	9 ft.	26A / N/A
9RLS3 / 9RLS3H	2 lbs. 14 oz.	49 ft.	66 ft.	.22 oz./ft.	10 ft.	N/A
9RL2	1 lb. 7 oz.	49 ft.	66 ft.	.22 oz./ft.	9 ft.	18A
9RLFC	2 lbs. 10 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	N/A
9RLFW / 9RLFW1	1 lb. 14 oz.	49 ft.	66 ft.	.21 oz./ft.	9 ft.	26A / N/A
9RLFF / 9RLFFH	2 lbs. 10 oz.	49 ft.	66 ft.	.22 oz./ft.	9 ft.	N/A
12R2	2 lbs. 3 oz.	25 ft.	49 ft.	.21 oz./ft.	9 ft.	47A
12CQ	2 lbs. 1 oz.	25 ft.	49 ft.	.2 oz./ft.	9 ft.	53A
12RQ	2 lbs. 3 oz.	25 ft.	49 ft.	.2 oz./ft.	9 ft.	53A
12RLQ	1 lb. 12 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	26A
12RL	1 lb. 12 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	26A
12RLS	2 lbs. 9 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	26A
12RLS2 / 12RLS2H	2 lbs. 10 oz.	49 ft.	66 ft.	.21 oz./ft.	9 ft.	26A
12RLS3 / 12RLS3H	2 lbs. 14 oz.	49 ft.	66 ft.	.22 oz./ft.	10 ft.	N/A
12RLFC	2 lbs. 10 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	N/A
12RLFW / 12RLFW1	2 lbs. 5 oz.	49 ft.	66 ft.	.21 oz./ft.	9 ft.	26A / N/A
12RL2	1 lb. 12 oz.	49 ft.	66 ft.	.22 oz./ft.	9 ft.	18A
12RLFF / 12RLFFH	2 lbs. 10 oz.	49 ft.	66 ft.	.22 oz./ft.	9 ft.	N/A
15RLQ	2 lbs. 9 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	26A
15RLS	2 lbs. 10 oz.	49 ft.	66 ft.	.21 oz./ft.	9 ft.	26A
15RLS2 / 15RLS2H	2 lbs. 12 oz.	49 ft.	66 ft.	.21 oz./ft.	9 ft.	30A
15RLS3 / 15RLS3H	3 lbs. 1 oz.	49 ft.	66 ft.	.22 oz./ft.	10 ft.	N/A
15RLFF / 15RLFFH	2 lbs. 12 oz.	49 ft.	66 ft.	.22 oz./ft.	9 ft.	N/A
18CL	2 lbs. 9 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	26A
18RL	2 lbs. 9 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	26A
18RLB	3 lbs. 1 oz.	49 ft.	66 ft.	.22 oz./ft.	10 ft.	N/A
18RLQ	2 lbs. 9 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	26A
18RLX	4 lbs. 3 oz.	49 ft.	165 ft.	.2 oz./ft.	16 ft.	34A
18RLXS	4 lbs. 10 oz.	66 ft.	165 ft.	.43 oz./ft.	16 ft.	34A
18RLXFW	4 lbs. 10 oz.	66 ft.	165 ft.	.43 oz./ft.	16 ft.	34A
18RLFC	2 lbs. 14 oz.	49 ft.	66 ft.	.2 oz./ft.	9 ft.	N/A
24CL	3 lbs. 8 oz.	49 ft.	99 ft.	.21 oz./ft.	9 ft.	29A
24RL	3 lbs. 8 oz.	49 ft.	99 ft.	.21 oz./ft.	9 ft.	29A
24RLB	3 lbs. 1 oz.	49 ft.	66 ft.	.22 oz./ft.	10 ft.	N/A
24RLQ	3 lbs. 8 oz.	49 ft.	99 ft.	.21 oz./ft.	9 ft.	29A
24RLX	4 lbs. 3 oz.	49 ft.	165 ft.	.43 oz./ft.	16 ft.	34A
24RLXQ	4 lbs. 10 oz.	66 ft.	165 ft.	.43 oz./ft.	16 ft.	36A
24RLXS	4 lbs. 10 oz.	66 ft.	165 ft.	.43 oz./ft.	16 ft.	34A
24RLXFW	4 lbs. 10 oz.	66 ft.	165 ft.	.43 oz./ft.	16 ft.	34A
24CL1	2 lbs. 14 oz.	49 ft.	99 ft.	.21 oz./ft.	9 ft.	24A
30CLX	4 lbs. 10 oz.	66 ft.	165 ft.	.43 oz./ft.	16 ft.	36A
30CLX1	4 lbs. 10 oz.	66 ft.	167 ft.	.43 oz./ft.	16 ft.	34A
30RLXB	4 lbs. 10 oz.	66 ft.	164 ft.	.43 oz./ft.	10 ft.	N/A
30RLXQ	4 lbs. 10 oz.	66 ft.	165 ft.	.43 oz./ft.	16 ft.	36A
30RLX	4 lbs. 10 oz.	66 ft.	166 ft.	.43 oz./ft.	16 ft.	34A
36CLX	4 lbs. 10 oz.	66 ft.	165 ft.	.43 oz./ft.	16 ft.	36A
36CLX1	4 lbs. 10 oz.	66 ft.	165 ft.	.43 oz./ft.	16 ft.	34A
36RLX	4 lbs. 14 oz.	49 ft.	165 ft.	.43 oz./ft.	16 ft.	37A
36RLXB	4 lbs. 10 oz.	66 ft.	164 ft.	.43 oz./ft.	10 ft.	N/A
42RLX	7 lbs. 8 oz.	66 ft.	230 ft.	.43 oz./ft.	16 ft.	77A
24RML / 24RML1	4 lbs. 10 oz.	98 ft.	98 ft.	N/A	16 ft.	34A
36RML / 36RML1	7 lbs. 1 oz.	98 ft.	165 ft.	.27 oz./ft.	16 ft.	37A
18RLXFZ / 24RLXFZ	4 lbs. 13.5 oz.	98 ft.	164 ft.	.21 oz./ft.	16 ft. (49 ft. combined)	24A
18RLXFZH	4 lbs. 3 oz.	98 ft.	164 ft.	.21 oz./ft.	16 ft. (49 ft. combined)	N/A
24RLXFZH	4 lbs. 14 oz.	98 ft.	229 ft.	.21 oz./ft.	16 ft. (49 ft. combined)	N/A
36RLXFZ	7 lbs. 4.5 oz.	164 ft.	230 ft.	.27 oz./ft.	16 ft. (49 ft. combined)	37A
36RLXFZ (18+18)	7 lbs. 4.5 oz.	66 ft.	131 ft.	.27 oz./ft.	25 ft. (49 ft. combined)	37A
36RLXFZ1	7 lbs. 1 oz.	164 ft.	230 ft.	.21 oz./ft.	16 ft. (49 ft. combined)	N/A
36RLXFZ1 (18+18)	7 lbs. 1 oz.	66 ft.	131 ft.	.21 oz./ft.	25 ft. (49 ft. combined)	N/A
48RLXFZ	7 lbs. 10 oz.	N/A	377 ft.	N/A	16 ft. with no tube	44A
48RLXFZ1	7 lbs. 10 oz.	N/A	377 ft.	N/A	17 ft. with tube	44A

Halcyon HFI, RL2 & RLS2 Indoor Units MODELS: ASU9RLF, ASU12RLF, ASU18RLF, ASU24RLF, ASU7RLF1, ASU9RLF1, ASU12RLF1, AUU9RLF, AUU12RLF, AUU18RLF, ARU7RLF, ARU9RLF, ARU12RLF, ARU18RLF, ARU24RLF, AGU9RLF, AGU12RLF, AGU15RLF, ASU9RL2, ASU12RL2, ASU9RLS2, ASU12RLS2, ASU15RLS2

Error Indication			Wired Remote	Error	Diagnosis Method
Operation	Timer	Economy			
1 Time	Off	Off	N/A	Mode Mismatch Multizone	Operation light 1sec on, 1 sec off. When 1 or more indoor units are in auto or different modes on multi-zone systems
1 Time	Off	Off	Green Light Flashing	Defrost Mode	Operation light 7 sec on, 2 sec off. Unit in defrost normal operation
Off	Off	3 Times	N/A	Clean Filters Reminder	Remove & clean filters then press & hold manual auto button on indoor unit for 2 seconds or more to reset.
1 Time	1 Time	Continuous	11	Serial Communication Error	-Check wiring from panel to condenser, condenser to evaporator. Wire nuts and splices are not recommended. Check for correct voltages at panel, condenser and evaporator. Refer to the Service Instruction manual – Serial Signal troubleshooting for further details.
1 Time	2 Times	Continuous	12	Remote Control Communication Error	-Check the connection of terminal between remote control and indoor unit and check if there is a disconnection of the cable.
1 Time	5 Times	Continuous	15	Check Run Unfinished	-Check indoor unit number connection.-Power down all indoors units with remote controller, reset disconnect and branch box power for 5 minutes, reinitiate check-run operation.
2 Times	1 Time	Continuous	21	Number of Wires and Pipes Error	-Check indoor unit connection. -Check for crossed wiring or piping.
2 Times	2 Times	Continuous	22	Indoor Capacity Error	-Check total capacity of the connected indoor units. -Check all field wiring to ensure no breaks.
2 Times	3 Times	Continuous	23	Connected Combination Error	When power is on and either one of the below occurs: • When the wiring is incorrect. • When the connection of an unsupported multi-zone condenser is installed.
2 Times	4 Times	Continuous	24	Connection Unit Number Error	-Check indoor unit number connection for overcapacity. -Check power to the branch boxes.
3 Times	2 Times	Continuous	32	Indoor Main PCB Error	-Check if the ground connection is proper. Check if there is any equipment that causes harmonic wave near the power cables, i.e. neon light bulb.
3 Times	5 Times	Continuous	35	Manual Auto Switch Error	-Check if Manual Auto switch is kept pressed. Check On/Off switching operation by using a meter.
4 Times	1 Time	Continuous	41	Indoor Room Thermistor Error	-Check thermistor for open or short. Check thermistor resistance value. (Refer to "Thermistor characteristics table"). -Controller PCB defective.
4 Times	2 Times	Continuous	42	Indoor Heat Ex. Thermistor Error	Check thermistor for open for open or short. Check thermistor resistance value (Refer to "Thermistor characteristics table"). -Controller PCB defective.
5 Times	1 Time	Continuous	51	Indoor Fan Motor Error	-Check rotation of fan. -Check ambient temperature around motor. -Check indoor unit fan motor resistance values. -Replace controller PCB.
5 Times	3 Times	Continuous	53	Drain Pump Error	-Check operation of float switch, blockages, dust, etc. -Remove float and check on/off switching operation by using a meter. -Check connector of (CN9) / wire. -Check drain hose for blockages.
5 Times	7 Times	Continuous	57	Damper Error	-Check operation of limit switch. -Check for loose connection of CN18 / shorted or pinched wire. -Check damper for obstructions of damper movement. -Check damper movement.
5 Times	8 Times	Continuous	58	Intake Grille Error	-Check limit switch. -Check connector (CN11) / wire. -Replace controller PCB.
6 Times	2 Times	Continuous	62	Outdoor Unit Main PCB Error	-Reset power supply and operate. -Check external cause; voltage drop, poor ground connection. -Replace Main PCB.
6 Times	3 Times	Continuous	63	Inverter PCB Error	-Reset power to disconnect -Check connection of molex plugs on inverter PCB for loose connections.
6 Times	4 Times	Continuous	64	PFC Circuit Error (9/12RLS3) Active Filter Error (15RLS3)	-Check external cause at the indoor and outdoor (voltage drop or noise). -Check connection of connector, loose, erroneous connection. -Check Active Filter Module resistance values. -Replace Main PCB.
6 Times	5 Times	Continuous	65	IPM Error	-Check connections of outdoor unit electrical components. -Check outdoor fan, heat exchanger. -Check compressor resistance values.
6 Times	10 Times	Continuous	6A	Display P.C.B. Communication Error	-Check molex plug connection for loose or erroneous connection.
7 Times	1 Time	Continuous	71	Discharge Thermistor Error	-Check connection of connector, loose, erroneous connection. -Check thermistor for open for open or short. Check thermistor resistance value (Refer to "Thermistor characteristics table"). -Check voltage of Main PCB.
7 Times	2 Times	Continuous	72	Compressor Thermistor Error	-Check for erroneous connection or removed connector. -Check resistance on thermistor. -Check voltage to thermistor.
7 Times	3 Times	Continuous	73	Heat Ex. (Pipe) Thermistor Error	-Check connection of connector, loose, erroneous connection. -Check thermistor for open for open or short. Check thermistor resistance value (Refer to "Thermistor characteristics table"). -Check voltage of Main PCB.
7 Times	4 Times	Continuous	74	Outdoor Thermistor Error	- Check connection of connector, loose, erroneous connection. -Check thermistor for open for open or short. Check thermistor resistance value (Refer to "Thermistor characteristics table").
7 Times	5 Times	Continuous	75	Suction Gas Thermistor Error	-Check the connection of the molex plug, loose or erroneous connection. -Check ohm resistance readings of thermistor. -Check voltage of Main PCB.
7 Times	6 Times	Continuous	76	2-Way or 3-Way Valve Thermistor Error	
7 Times	7 Times	Continuous	77	Heat Sink Thermistor Error	-Check for erroneous connection or removed connector. -Check resistance on thermistor. -Check voltage to thermistor.
8 Times	2 Times	Continuous	82	Sub-Cool Heat Ex. Gas Inlet/Outlet Thermistor Error	
8 Times	3 Times	Continuous	83	Liquid Pipe Thermistor	
8 Times	4 Times	Continuous	84	Current Sensor Error	-Check if terminal connection is loose. -Check if connector is removed. -Check if erroneous connection.
8 Times	6 Times	Continuous	86	High Pressure Switch Error	-Reset power to disconnect for 3-5 minutes. -Check voltage to pressure switch. -Check ohm resistance to high pressure switch.
9 Times	4 Times	Continuous	94	Over Current Error	-Clogged heat exchanger. -Condenser fan motor defective. -Discharged air not sucked in.
9 Times	5 Times	Continuous	95	Compressor Control Error	-Check if connector is removed. -Check erroneous connection. -Check if cable is open.
9 Times	7 Times	Continuous	97	Outdoor Unit Fan Motor Error	-Check rotation of fan, locked motor, or resistance for motor to rotate. -Check ambient temperature around motor, excessive high temperature around motor or surrounding equipment that causes heat. -Ohm fan motor windings, check for DC voltage to motor.
9 Times	9 Times	Continuous	99	4-Way Valve Error	-Check connection of molex plug. -Check each thermistor. -Check the solenoid coil and 4-way valve. -Check voltage of 4-way valve.
10 Times	1 Time	Continuous	A1	Discharge Temperature Error	-Check if 3-way valve is open. -Check EEV, strainer. -Check outdoor unit fan, heat exchanger. -Check discharge thermistor. -Check refrigerant amount, leak check.
10 Times	3 Times	Continuous	A3	Compressor Temperature Error	-Check if 3-way valve is open. -Check EEV, strainer. -Check outdoor unit fan, heat exchanger. -Check compressor thermistor, loose connection.
10 Times	5 Times	Continuous	A5	Low Pressure Error	-Check if 3-way valve (gas side) is open. -Clogged strainer. -Check ohm resistance value of EEV coil. -Check suction pressure sensor. -Check refrigerant amount.
13 Times	5 Times	Continuous	J2	Branch Box Error	-Reset power supply and operate. -Check molex plugs for loose or erroneous connections. -Check for defective or crossed field wiring.

Universal Mount / Ceiling Suspended

MODELS: ABU18RULX, ABU24RULX, ABU36RSLX

Operation	Timer	Swing	Error Contents
Continuous blink	Continuous blink	OFF	Indoor EEPROM abnormal
Continuous blink	Continuous blink	Continuous blink	Outdoor EEPROM abnormal
2 flashes	Continuous blink	OFF	Indoor room temperature sensor open
2 flashes	Continuous blink	Continuous blink	Indoor room temperature sensor short circuited
3 flashes	Continuous blink	OFF	Indoor heat exchanger temperature sensor open
3 flashes	Continuous blink	Continuous blink	Indoor heat exchanger temperature sensor short circuited
4 flashes	Continuous blink	OFF	Float switch operated
5 flashes	Continuous blink	OFF	Communication error (serial reverse transfer error)
5 flashes	Continuous blink	Continuous blink	Outdoor communication error (forward reverse transfer error)
6 flashes	Continuous blink	OFF	Indoor fan abnormal
Continuous blink	2 flashes	OFF	Outdoor power source connection abnormal
Continuous blink	3 flashes	OFF	Outdoor heat exchanger temperature sensor open
Continuous blink	3 flashes	Continuous blink	Outdoor heat exchanger temperature sensor short circuited
Continuous blink	4 flashes	OFF	Outdoor temperature sensor open
Continuous blink	4 flashes	Continuous blink	Outdoor temperature sensor short circuited
Continuous blink	5 flashes	OFF	Outdoor discharge pipe temperature sensor or compressor temperature sensor open
Continuous blink	5 flashes	Continuous blink	Outdoor discharge pipe temperature sensor or compressor temperature sensor short circuited
Continuous blink	6 flashes	OFF	Outdoor high pressure abnormal
Continuous blink	7 flashes	OFF	Outdoor discharge pipe temperature or compressor temperature sensor abnormal
Continuous blink	8 flashes	OFF	Compressor temperature thermistor error
Continuous blink	9 flashes	OFF	Pressure switch error
Continuous blink	10 flashes	OFF	IPM error
Continuous blink	11 flashes	OFF	CT error
Continuous blink	12 flashes	OFF	Active Filter Module Error (AFM)
Continuous blink	13 flashes	OFF	Compressor rotor location can not be detected (Permanent Stop)
Continuous blink	14 flashes	OFF	Outdoor unit fan motor error

Indoor Ceiling Cassettes

MODELS: AUU18RCLX, AUU24RCLX, AUU36RCLX, AUU42RCLX

Error Code	Error Contents
01	Indoor unit doesn't accept signal from outdoor unit
02	Room temperature sensor open
03	Room temperature sensor short-circuited
04	Indoor heat exchanger temperature sensor open
05	Indoor heat exchanger temperature sensor short circuited
06	Outdoor heat exchanger temperature sensor
08	Power source connection error
09	Float switch operated
0A	Outdoor temperature sensor error
0c	Discharge pipe temperature sensor
11	Model abnormal/Indoor EPROM Abnormal
12	Indoor fan abnormal
13	Outdoor unit doesn't accept the signal from indoor unit
14	Excessive outdoor pressure (permanent stop)
15	Compressor temperature sensor
16	Pressure switch error
17	IPM error
18	CT error
19	Active filter module (AFM) error
1A	Compressor does not operate
1b	Outdoor unit fan error
1c	Communication error (inverter to multi controller)
1d	2 way valve sensor error
1E	Expansion valve error
1F	Connection indoor unit error

Outdoor Cassette & Ceiling Suspended

MODELS: AOU18RLX, AOU24RLX, AOU36RLX, AOU42RLX

LED	Error Contents
1 flash	Communication error (Indoor unit to Outdoor unit)
2 flash	Discharge pipe temperature sensor
3 flash	Outdoor heat exchanger temperature sensor
4 flash	Outdoor temperature sensor
7 flash	Compressor temperature sensor
8 flash	Heat sink temperature sensor
9 flash	Pressure switch abnormal
12 flash	IPM error
13 flash	Compressor rotor position cannot detect
14 flash	Compressor cannot operate/Start up error
15 flash	Outdoor fan abnormal (upper fan)
16 flash	Outdoor fan abnormal (lower fan)
Lighting	No error

Halcyon HFI Branch Boxes

MODELS: UTP-PU03A, UTP-PU03B

When an error occurs, an error description displays in the LED (No. 401 ~ 405).

●	Lit
⊙(n)	Flashing (number of flashing)
○	Unlit

Normal status

Green	Red				Comment
LED401	LED402	LED403	LED404	LED405	
●	○	○	○	○	This box is functioning properly.

Error status

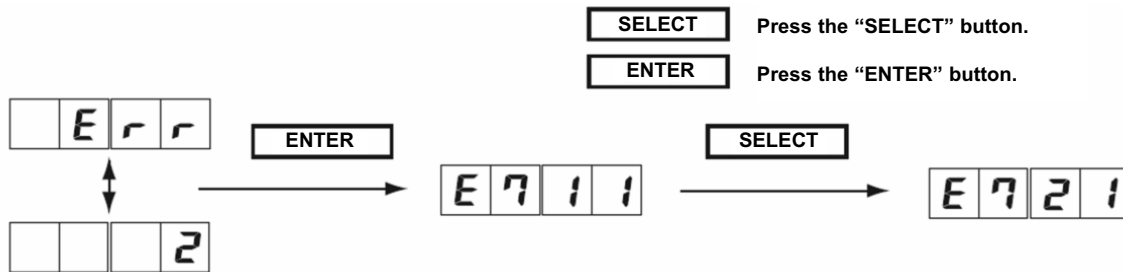
Green	Red				Error Description
LED401	LED402	LED403	LED404	LED405	
●	●	●	●	●	Connected combination error
●	●	●	●	○	Power frequency error
●	●	●	○	●	EEPROM access error
	⊙(1)	○	○	○	Model information error
	⊙(2)	○	○	○	Serial communication error between outdoor unit and branch box
Branch Box identifying display	⊙(3)	○	○	○	Serial communication error between branch boxes
	⊙(4)	○	○	○	Serial communication error between branch boxes
Primary unit :⊙(1)	⊙(5)	●	○	○	Serial communication error between Indoor Unit A and branch box
		○	●	○	Serial communication error between Indoor Unit B and branch box
Secondary unit1 :⊙(2)		○	○	●	Serial communication error between Indoor Unit C and branch box
	⊙(6)	●	○	○	Indoor Unit A, liquid pipe thermistor error (CN309)
		○	●	○	Indoor Unit B, liquid pipe thermistor error (CN309)
Secondary unit2 :⊙(3)		○	○	●	Indoor Unit C, liquid pipe thermistor error (CN310)
	⊙(7)	●	○	○	Indoor Unit A, gas pipe thermistor error (CN309)
		○	●	○	Indoor Unit B, gas pipe thermistor error (CN309)
		○	○	●	Indoor Unit C, gas pipe thermistor error (CN310)
	⊙(8)	●	○	○	Indoor Unit A, EEV control error (CN305)
		○	●	○	Indoor Unit B, EEV control error (CN306)
		○	○	●	Indoor Unit C, EEV control error (CN307)
	⊙(9)	○	○	○	Remote controller communication error

Halcyon HFI Outdoor Unit

MODELS: AOU48RLXFZ, AOU48RLXFZ1

- When error occurs, "Err" and "Number of error occurred" are alternately displayed in 7 seg. display.
- The latest error code can be confirmed by pressing the ENTER button.
- When error codes are displayed, all the error codes can be confirmed by pressing the SELECT button.

Example: When "Discharge thermistor error" and "Compressor thermistor error" are occurred



CODE	DESCRIPTION			CODE	DESCRIPTION		
E 1 1 3	Serial communication error			E 7 5 1	Suction gas thermistor error		
E 1 1 4				E 7 7 1	Heat sink thermistor error		
E 1 5 6	Check run unfinished			E 8 2 1	Sub-cool heat EX gas inlet thermistor error		
E 2 1 2	Number of wires and pipes error			E 8 2 2	Sub-cool heat EX gas outlet thermistor error		
E 2 2 1	Indoor unit capacity error			E 8 3 1	Liquid pipe thermistor error		
E 2 4 2	Number of indoor units error			E 8 4 1	Current sensor error		
E 2 4 3	Number of Branch boxes error			E 8 6 1	Discharge pressure sensor error		
E 5 U 1	Indoor unit error			E 8 6 3	Suction pressure sensor error		
E 6 2 1	Outdoor unit model information error			E 8 6 4	High pressure switch error		
E 6 3 1	Inverter error			E 9 4 1	Over current error		
E 6 4 1	A.F. voltage error			E 9 5 1	Compressor control error		
E 6 5 3	I.P.M. error			E 9 7 3	Outdoor unit fan motor error		
E 6 A 1	Display P.C.B. communication error			E 9 9 1	4-way valve error		
E 7 1 1	Discharge thermistor error			E A 1 1	Discharge temp. error		
E 7 2 1	Compressor thermistor error			E A 3 1	Compressor temp. error		
E 7 3 3	Heat EX. liquid outlet thermistor error			E A 5 1	Low pressure error		
E 7 4 1	Outdoor thermistor error			E J 2 U	Branch boxes error		

Multi-Zone

MODELS: ASU9RMLQ, ASU12RMLQ, ASU18RMLQ, ARU9RML*, ARU12RML*, ARU18RML*, AUU9RML, AUU12RML, AUU18RML, AOU24RML, AOU36RML, AOU24RML1, AOU36RML1

* For these models, refer to the wired remote controller.

ERROR CONTENTS		INDOOR ERROR DISPLAY				Wire Remote Code No.
		OPERATION	TIMER	AIR CLEAN	COIL DRY	
Communication Error	Serial Reverse Transfer Error at Start Up	Off	2 flashes	Off	Off	01
	Serial Reverse Transfer Error During Operation	Off	3 flashes	Off	Off	00
	Forward Transfer Signal Error at Start Up	Off	4 flashes	Off	Off	13
	Indoor Unit ← Remote Control - Wired Remote Control	Off	8 flashes	Off	Off	00
Indoor Unit Temperature Error	Room temperature thermistor error	2 flashes	2 flashes	Off	Off	02 or 03
	Heat exchanger temperature thermistor error	2 flashes	3 flashes	Off	Off	04 or 05
Indoor Unit Water Drain Abnormal	Float switch tripped/pump problem	2 flashes	6 flashes	Off	Off	09
Outdoor Unit Temperature Error	Discharge pipe temperature thermistor error	3 flashes	2 flashes	Off	Off	0C or 0d
	Outdoor heat exchanger temp. thermistor error	3 flashes	3 flashes	Off	Off	06 or 07
	Outdoor temperature thermistor error	3 flashes	4 flashes	Off	Off	0A or 0b
	2 way valve temperature thermistor error	3 flashes	Off	2 flashes	Off	1d
	3 way valve temperature thermistor error	3 flashes	Off	3 flashes	Off	1E
	Heat sink temperature thermistor error	3 flashes	7 flashes	Off	Off	0E
Indoor Unit Control System Error	Compressor temperature thermistor error	3 flashes	8 flashes	Off	Off	15
	MANUAL AUTO button error	4 flashes	2 flashes	Off	Off	20
	Power supply 50HZ/60HZ detection error	4 flashes	4 flashes	Off	Off	08
	Electronic Air clean filter error	4 flashes	7 flashes	Off	Off	21
Outdoor Unit Control System Error	Electronic Air cleaner Power PCB Circuit error	4 flashes	8 flashes	Off	Off	22
	IPM error (Current trip error)	5 flashes	2 flashes	Off	Off	17
	CT error	5 flashes	3 flashes	Off	Off	18
	Compressor position error	5 flashes	5 flashes	Off	Off	1A
	Outdoor fan motor error	5 flashes	6 flashes	Off	Off	1b
	Connected indoor unit error	5 flashes	7 flashes	Off	Off	1F
Indoor Unit Fan Motor Error	Main CPU-sub CPU communication error	5 flashes	8 flashes	Off	Off	1C
	Indoor fan motor lock error	6 flashes	2 flashes	Off	Off	12
Refrigerant System Error	Indoor fan motor speed error	6 flashes	3 flashes	Off	Off	12
	Discharge pipe temperature error	7 flashes	2 flashes	Off	Off	0F
	Cooling High pressure abnormal rise	7 flashes	3 flashes	Off	Off	14
Added Function Error	High pressure switch error	7 flashes	6 flashes	Off	Off	16
	Active filter module (AFM) error (Second Time)	8 flashes	2 flashes	Off	Off	19
	Active filter module (AFM) error (First Time)	8 flashes	3 flashes	-	-	
Indoor Unit Connect Error	PFC Circuit Error	8 flashes	4 flashes	-	-	
	Indoor unit error (indoor EEPROM abnormal)	Blinking	Blinking	Blinking	Blinking	11

Multi-Zone

MODELS: AOU18RLXFZ, AOU18RLXFZH, AOU24RLXFZ, AOU24RLXFZH, AOU36RLXFZ, AOU36RLXFZ1, AOU24RML, AOU36RML, AOU24RML1, AOU36RML1

Error Contents	LED			
	1	2	3	4
Outdoor communication signal error (forward transfer)	1 flash	OFF	OFF	OFF
	OFF	1 flash	OFF	OFF
	OFF	OFF	1 flash	OFF
	OFF	OFF	OFF	1 flash
Outdoor discharge pipe temperature thermistor error	2 flashes	OFF	OFF	OFF
Outdoor heat exchanger temperature thermistor error	3 flashes	OFF	OFF	OFF
Outdoor temperature thermistor error	4 flashes	OFF	OFF	OFF
2 way valve temperature thermistor A error	5 flashes	OFF	OFF	OFF
2 way valve temperature thermistor B error	OFF	5 flashes	OFF	OFF
2 way valve temperature thermistor C error	OFF	OFF	5 flashes	OFF
2 way valve temperature thermistor D error	OFF	OFF	OFF	5 flashes
3 way valve temperature thermistor A error	6 flashes	OFF	OFF	OFF
3 way valve temperature thermistor B error	OFF	6 flashes	OFF	OFF
3 way valve temperature thermistor C error	OFF	OFF	6 flashes	OFF
3 way valve temperature thermistor D error	OFF	OFF	OFF	6 flashes
Compressor temperature thermistor error	7 flashes	OFF	OFF	OFF
Heat sink temperature thermistor error	8 flashes	OFF	OFF	OFF
Pressure switch 1 error	9 flashes	OFF	OFF	OFF
Pressure switch 2 error	10 flashes	OFF	OFF	OFF
Connected indoor unit error	11 flashes	OFF	OFF	OFF
IPM error	12 flashes	OFF	OFF	OFF
Compressor rotor location can not detect (permanent stop)	13 flashes	OFF	OFF	OFF
Compressor start up error (permanent stop)	14 flashes	OFF	OFF	OFF
Outdoor unit fan motor error	15 flashes	OFF	OFF	OFF
Heat Ex. MID thermistor error	16 flashes	OFF	OFF	OFF
Main CPU sub CPU Communication error	17 flashes	OFF	OFF	OFF
Discharge temperature error	18 flashes	OFF	OFF	OFF
Compressor temperature error	19 flashes	OFF	OFF	OFF
4-way valve error	20 flashes	OFF	OFF	OFF
Outdoor unit PCB model information error	21 flashes	OFF	OFF	OFF
Active filter error, PFC circuit error	22 flashes	OFF	OFF	OFF