

SPLIT TYPE
ROOM AIR CONDITIONER
WALL MOUNTED TYPE

SERVICE MANUAL



Indoor unit	Outdoor unit
ASYA18LEC	AOYR18LEC

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FUJITSU GENERAL LIMITED

SPECIFICATIONS

ELECTRICAL DATA

INDOOR UNIT	ASYA18LEC
OUTDOOR UNIT	AOYR18LEC
POWER SOURCE	230 V
FREQUENCY	50 Hz
COOLING CAPACITY	5.20 kW
HEATING CAPACITY	6.30 kW
RUNNING CURRENT (Cool)	6.8 A
RUNNING CURRENT (Heat)	7.6 A
INPUT WATTS (Cooling)	1.52 kW
INPUT WATTS (Heating)	1.71 kW
E.E.R. (Cooling)	3.42 kW/kW
C.O.P. (Heating)	3.68 kW/kW
MAXIMUM CURRENT (Cool)	9.0 A
MAXIMUM CURRENT (Heat)	12.5 A
MOISTURE REMOVAL	2.8 L/hr
AIR CIRCULATION HIGH	900 m ³ /hr

FAN MOTOR

POWER SOURCE		230 V
INDOOR UNIT	High speed	1,220 r.p.m.
	Middle	1,020 r.p.m.
	Low	900 r.p.m.
	Quiet	710 r.p.m.
OUTDOOR UNIT		1,050 r.p.m.

NOISE LEVEL

INDOOR UNIT (Cooling / Heating)	High	43 dB / 42 dB
	Middle	37 dB / 37 dB
	Low	33 dB / 33 dB
	Quiet	26 dB / 25 dB
OUTDOOR UNIT (Cool / Heat)		50 dB / 52 dB

COMPRESSOR AND REFRIGERANT

TYPE		Hermetic type, 4 pole, Scroll, DC inverter motor
DISCRIMINATION		808 903 80
WEIGHT (with oil)		9.0 kg
REFRIGERANT TYPE		R410A
PRECHARGED REFRIGERANT		1,200 g
FULL CHARGE	Pipe Length 15 m	1,200 g
	20 m	1,300 g
	25 m	1,400 g
ADDITIONAL CHARGE		20 g/m
MAX HEIGHT		20 m

DIMENSIONS

INDOOR UNIT	H x W x D	320 x 998 x 228 mm
OUTDOOR UNIT	H x W x D	620 x 790 x 298 mm

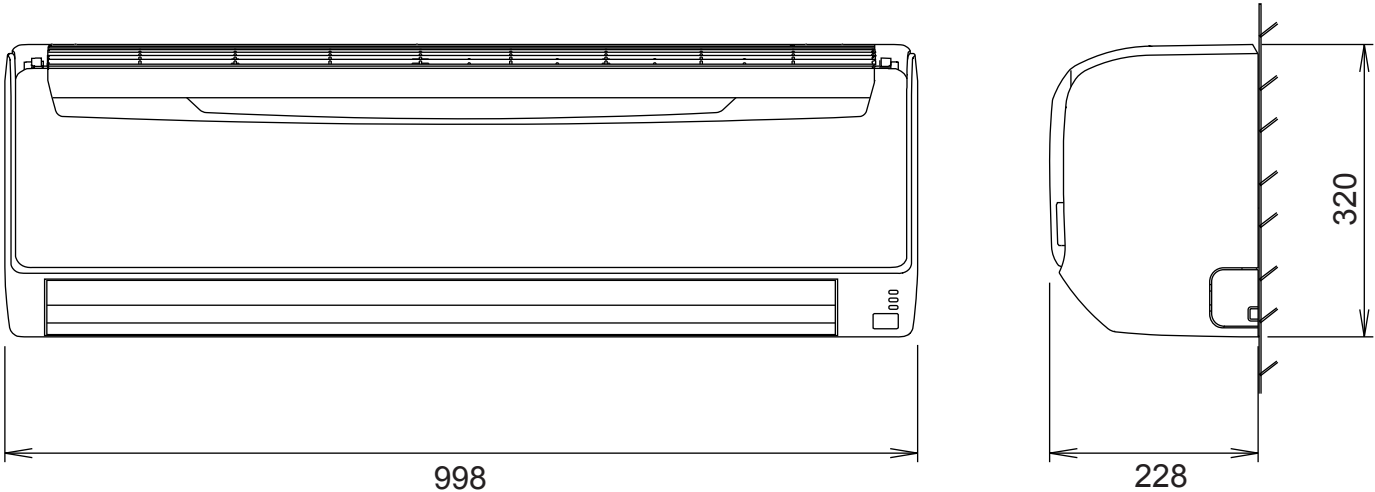
WEIGHT

INDOOR UNIT	Gross / Net	18 kg / 14 kg
OUTDOOR UNIT	Gross / Net	45 kg / 40 kg

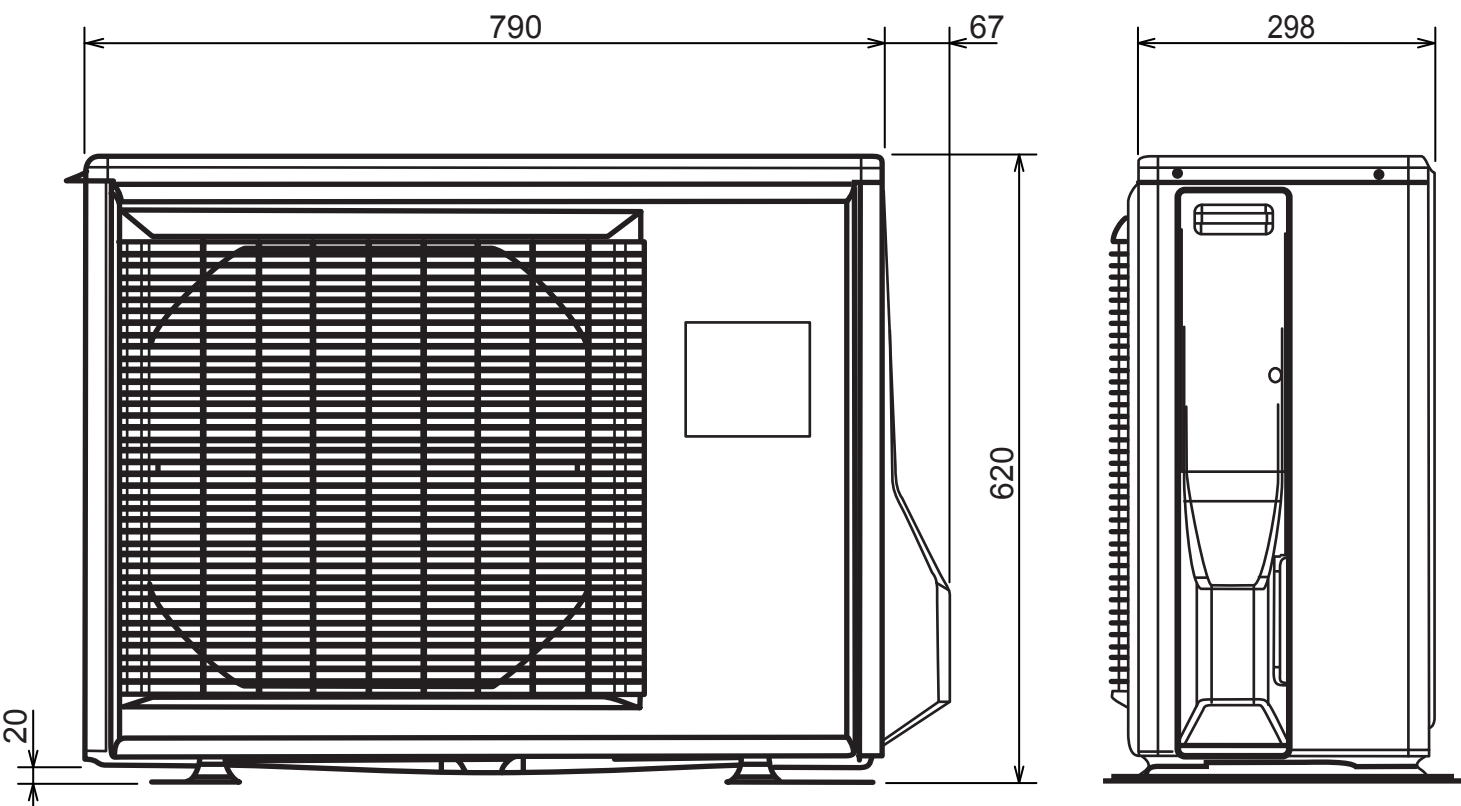
OUTLINE AND DIMENSIONS

Unit : mm

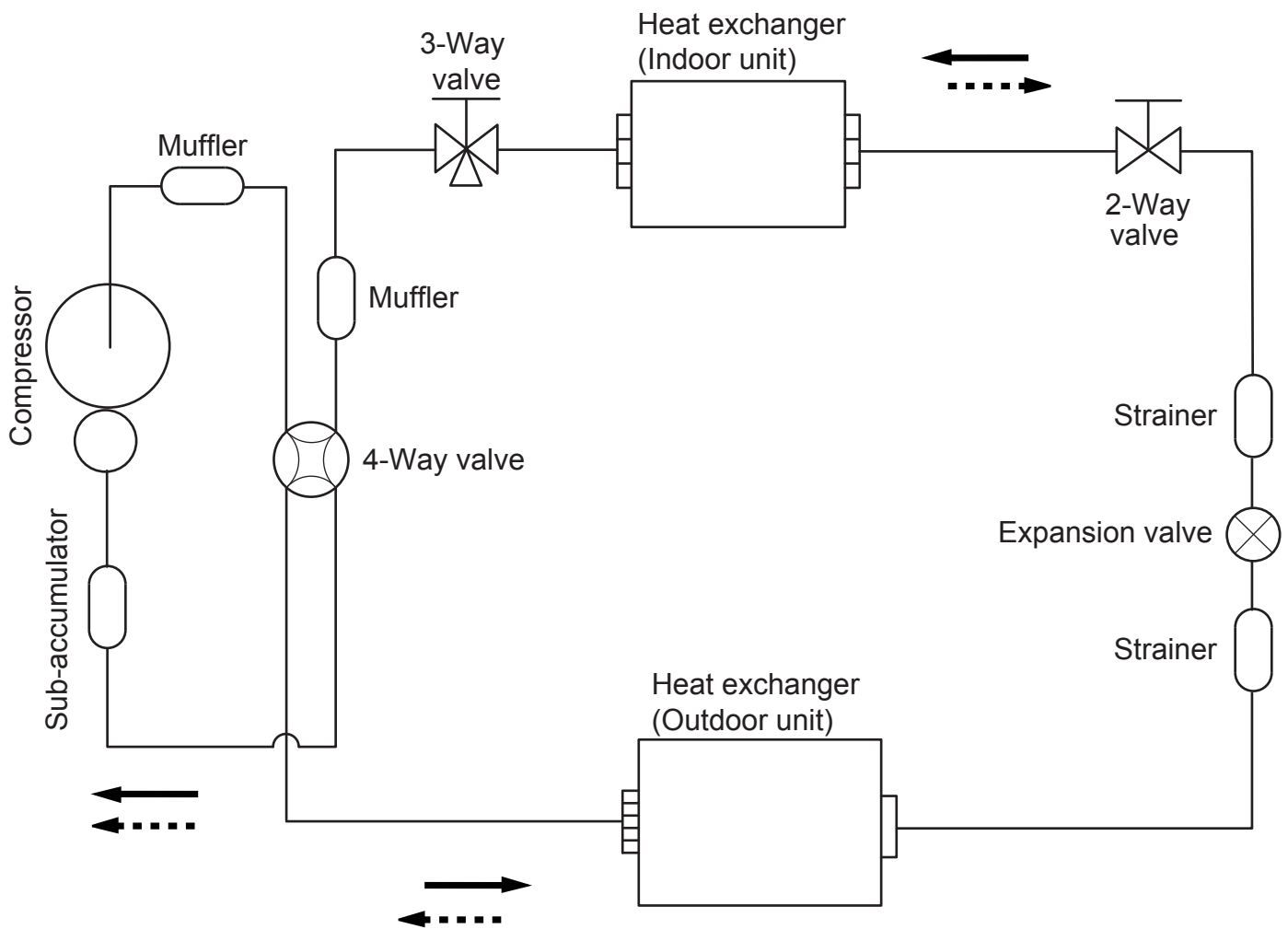
INDOOR UNIT



OUTDOOR UNIT



REFRIGERANT SYSTEM DIAGRAM



Refrigerant direction

————→ Cooling

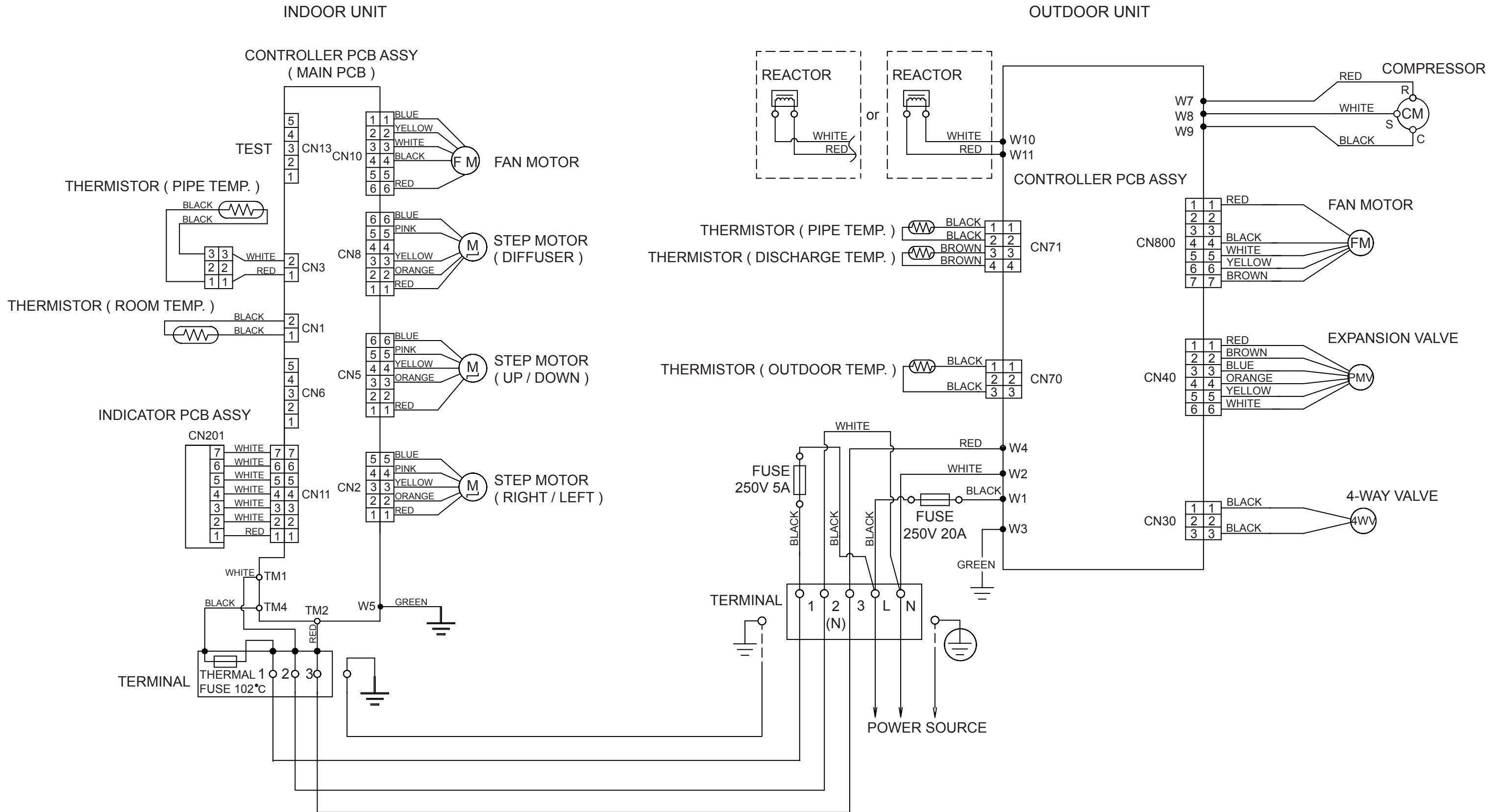
.....→ Heating

Refrigerant pipe diameter

Liquid : 1/4" (6.35 mm)

Gas : 1/2" (12.7 mm)

CIRCUIT DIAGRAM



Wiring Diagram for K05CX-0710HSE-C1 Controller PCB Assembly

Outdoor Unit Connections:

- Terminal Block:** 1 (L), 2 (N), 3 (SERIAL), 4 (EARTH)
- Wires:** L (Blue), N (Brown), SERIAL (Red), EARTH (Green)

Control Unit (EZ-0071CHSE) Connections:

- Terminal Block:** 1 (L), 2 (N), 3 (SERIAL), 4 (EARTH)
- Wires:** L (Blue), N (Brown), SERIAL (Red), EARTH (Green)

Indicator PCB Assembly (K05CY-0500HSE-D0) Connections:

- Terminal Block:** 1 (L), 2 (N), 3 (SERIAL), 4 (EARTH)
- Wires:** L (Blue), N (Brown), SERIAL (Red), EARTH (Green)

Controller PCB Assembly (K05CX-0710HSE-C1) Connections:

- Terminal Block:** 1 (L), 2 (N), 3 (SERIAL), 4 (EARTH)
- Wires:** L (Blue), N (Brown), SERIAL (Red), EARTH (Green)

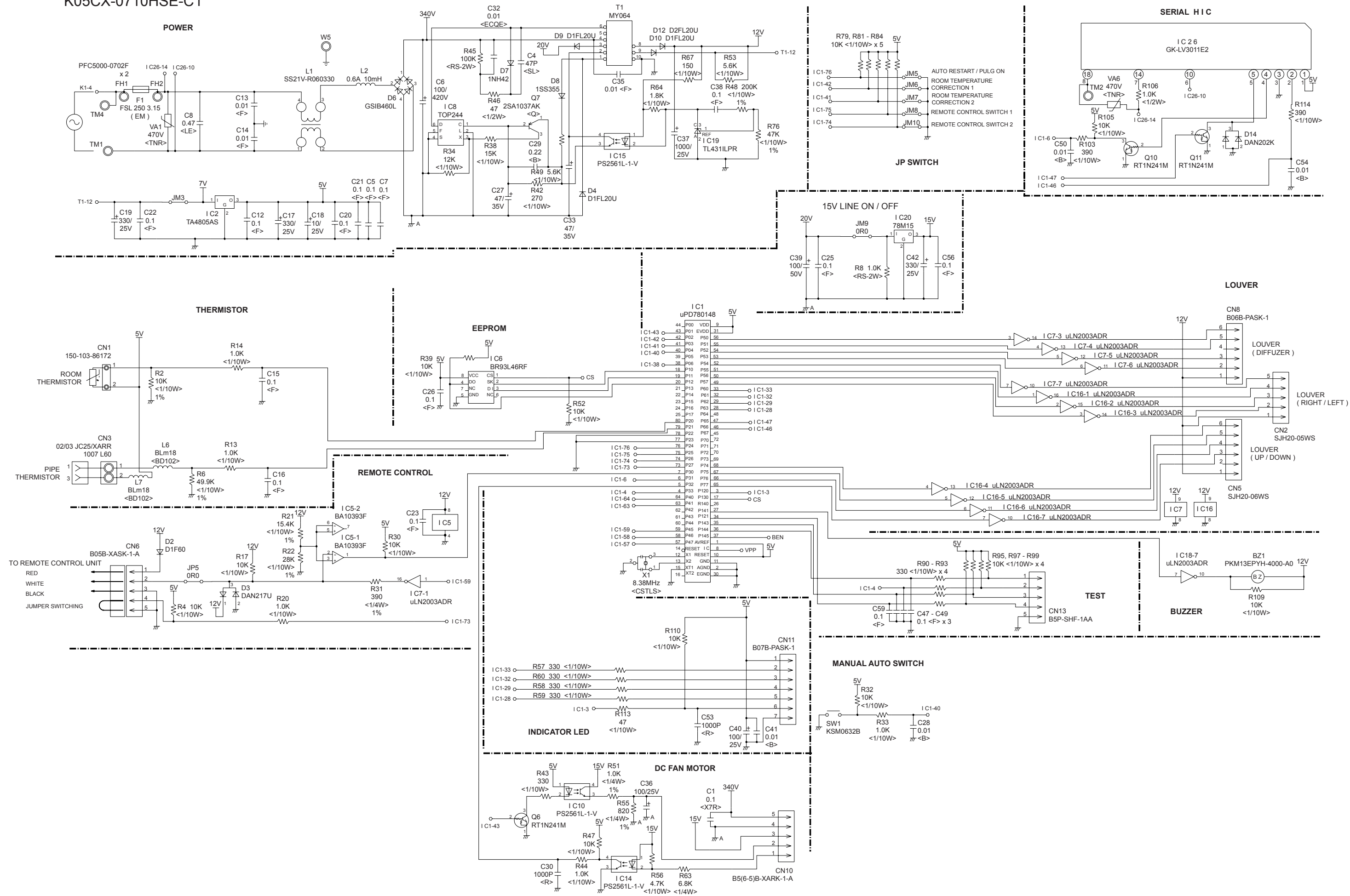
Sensors and Relays:

- Thermistor (Room Temperature):** CN2-1 (Black), CN2-2 (Black)
- Thermistor (Pipe):** XARR-03VF, XAP-03V-1
- Relays:** TM2, TM1, TM4 (22007)

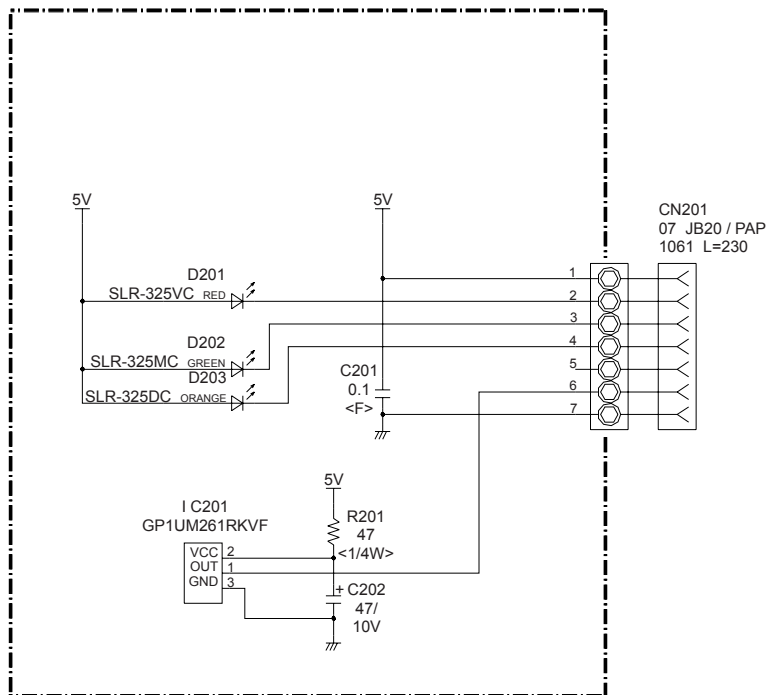
Other Components:

- W5:** Green wire
- W6:** Red wire
- W7:** White wire
- W8:** Black wire

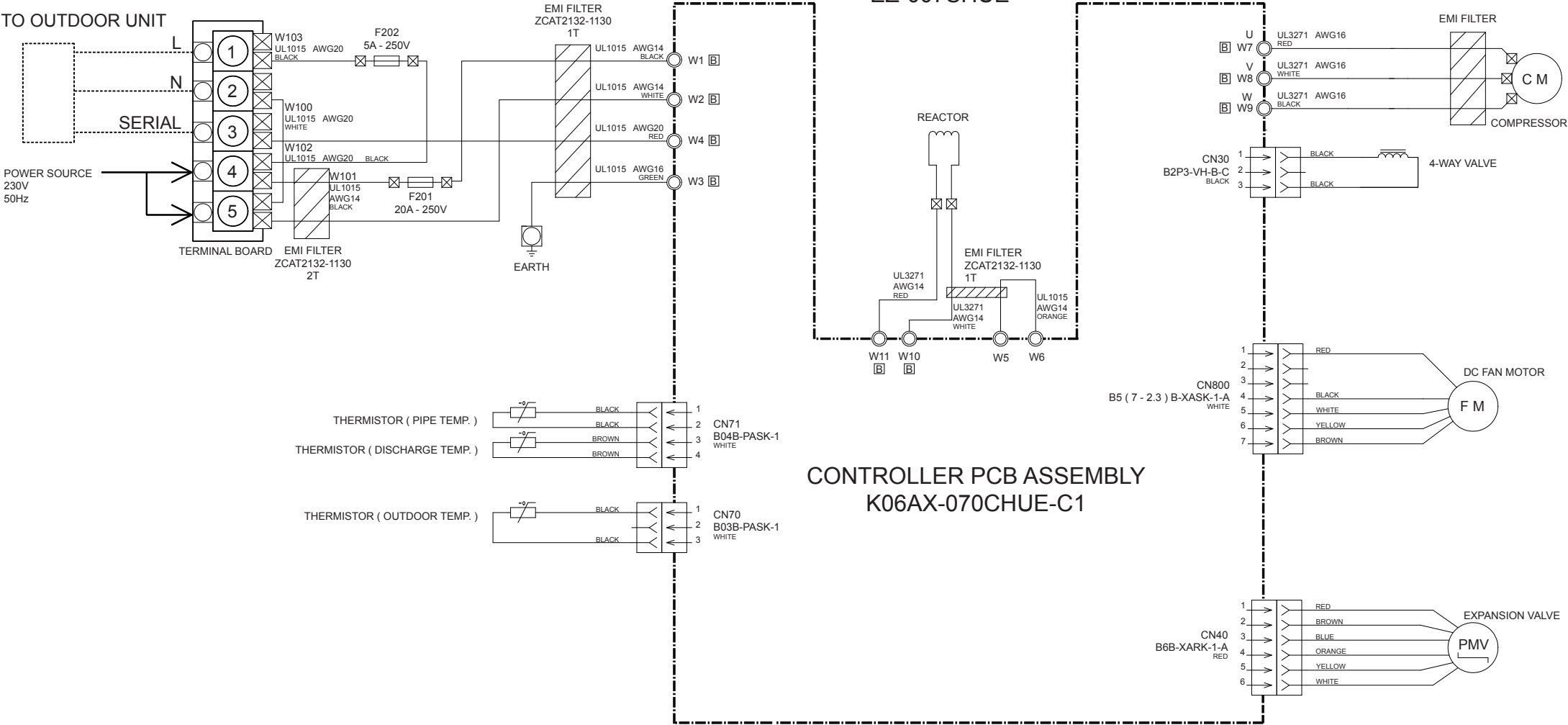
INDOOR UNIT
CONTROLLER PCB ASSEMBLY (MAI PCB)
K05CX-0710HSE-C1



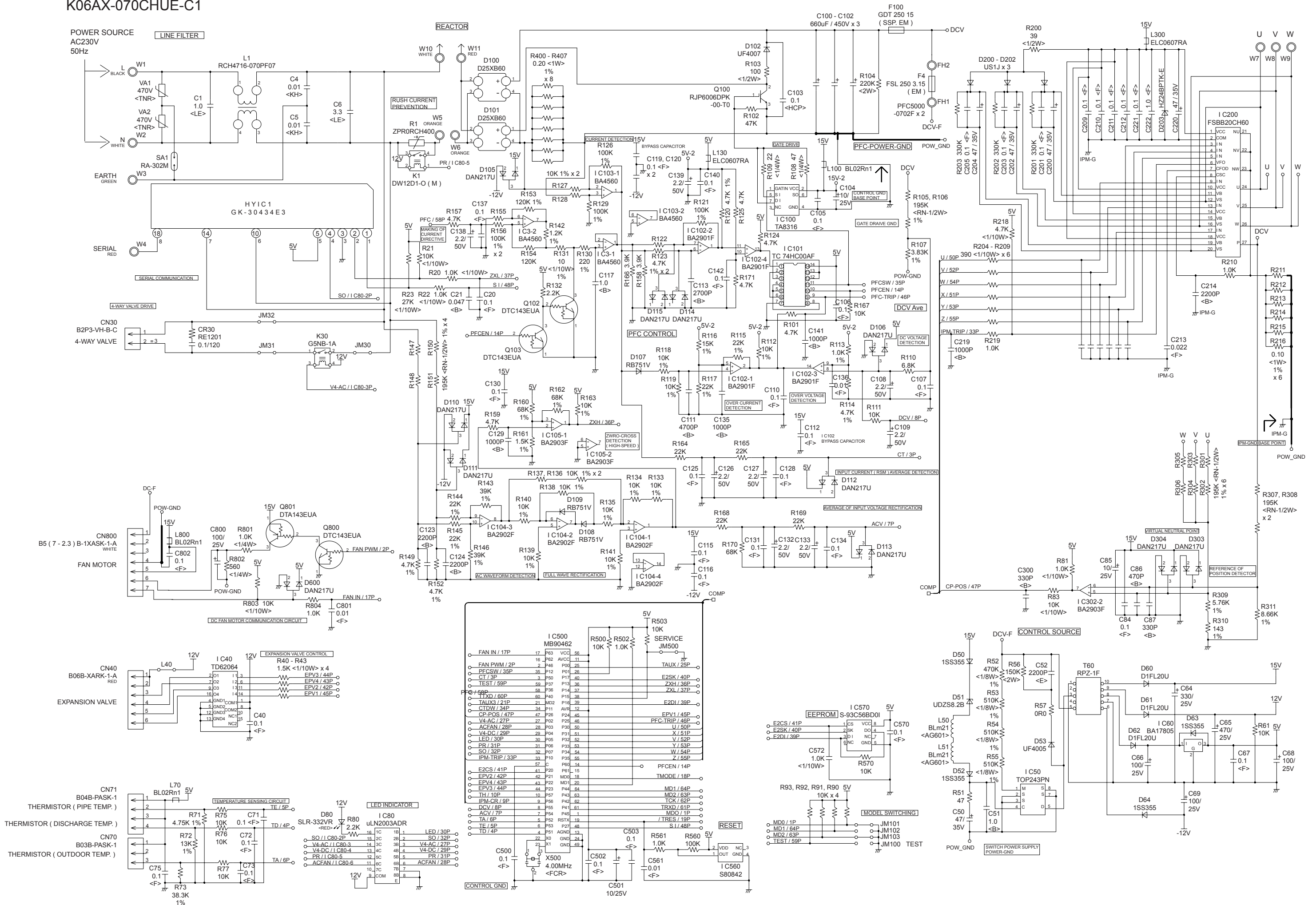
INDOOR UNIT
INDICATOR PCB ASSEMBLY
K05CY-0500HSE-D0



OUTDOOR PCB CIRCUIT DIAGRAM



OUTDOOR UNIT
CONTROLLER PCB ASSEMBLY (MAIN PCB)
K06AX-070CHUE-C1



ERROR CONTENTS

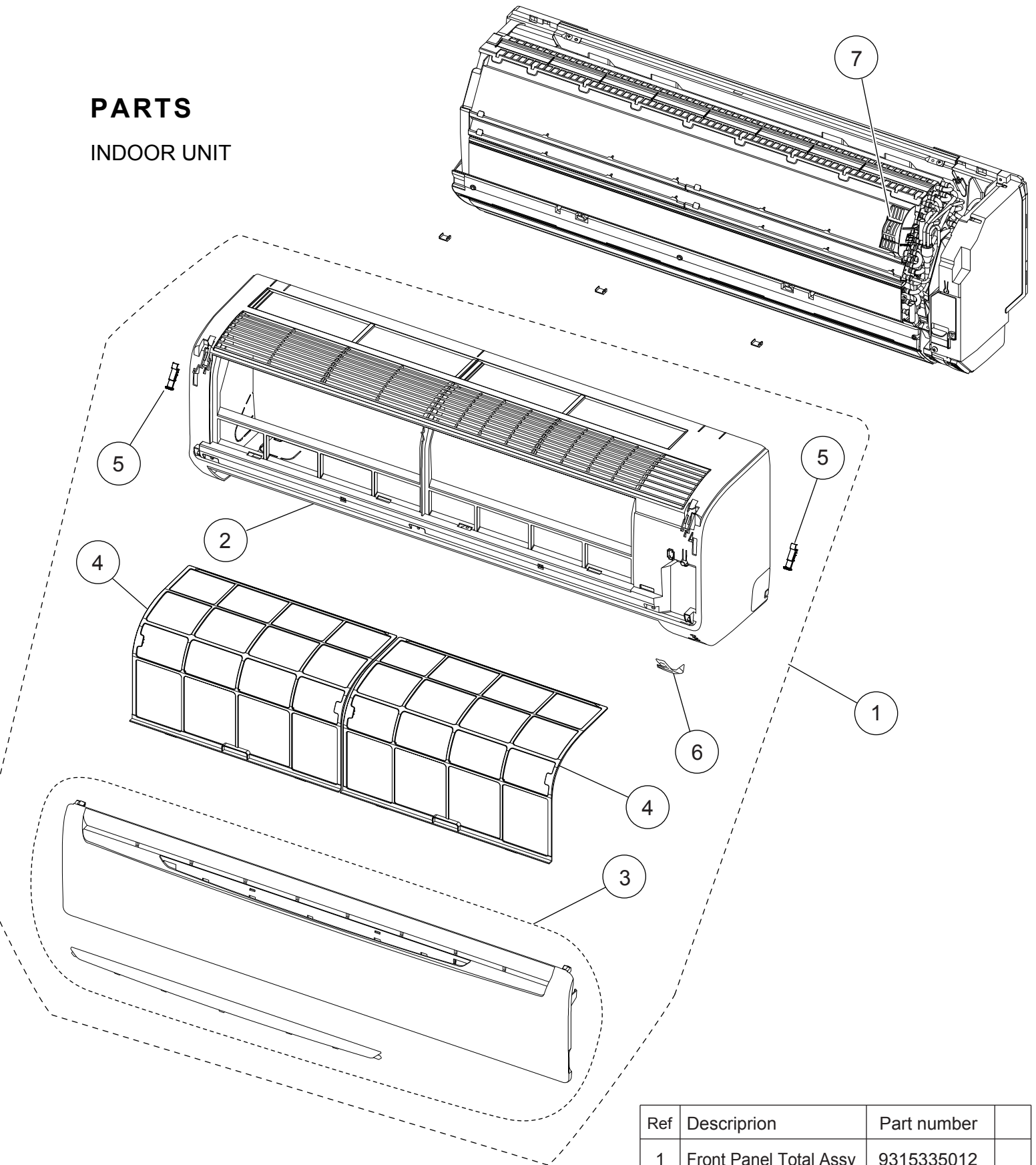
Error	Display		Error
	Operation LED	Timer LED	
Serial signal error	Off	2 flash	Serial signal (reverse) error, at operation start up
		3 flash	Serial signal (reverse) error, during operation
		4 flash	Serial signal (forward) error, at operation start up
		5 flash	Serial signal (forward) error, during operation
		8 flash	Wired remote controller error
Indoor unit thermistor error	2 flash	2 flash	Indoor temperature thermistor open / short
		3 flash	Heat exchanger middle thermistor open / short
Outdoor unit thermistor error	3 flash	2 flash	Discharge thermistor open / short
		3 flash	Heat exchanger thermistor open
		4 flash	Outdoor temperature thermistor open / short
		8 flash	Compressor temperature thermistor open / short
Indoor unit control error	4 flash	2 flash	Forced automatic SW welded
		3 flash	Main relay welded
		4 flash	Power interruption error
		7 flash	VDD permanent stop protection
		8 flash	reverse VDD permanent stop protection
Outdoor unit control error	5 flash	2 flash	Current trip error
		3 flash	CT abnormal
		5 flash	Compressor location detection error
		6 flash	Outdoor unit fan drive system abnormal
Indoor fan motor error	6 flash	2 flash	Abnormal lock
		3 flash	Abnormal rotation
Refrigerant cycle error	7 flash	2 flash	Discharge Temperature abnormal
		3 flash	Cooling high pressure abnormal rise
		5 flash	Pressure switch trouble
Optional function error	8 flash	2 flash	Active filter voltage trouble (second time)
		3 flash	Active filter voltage trouble (first time)
		4 flash	PFC circuit error
Model information error	0.1 sec on/off	0.1 sec on/off	Model information error

OUTDOOR UNIT

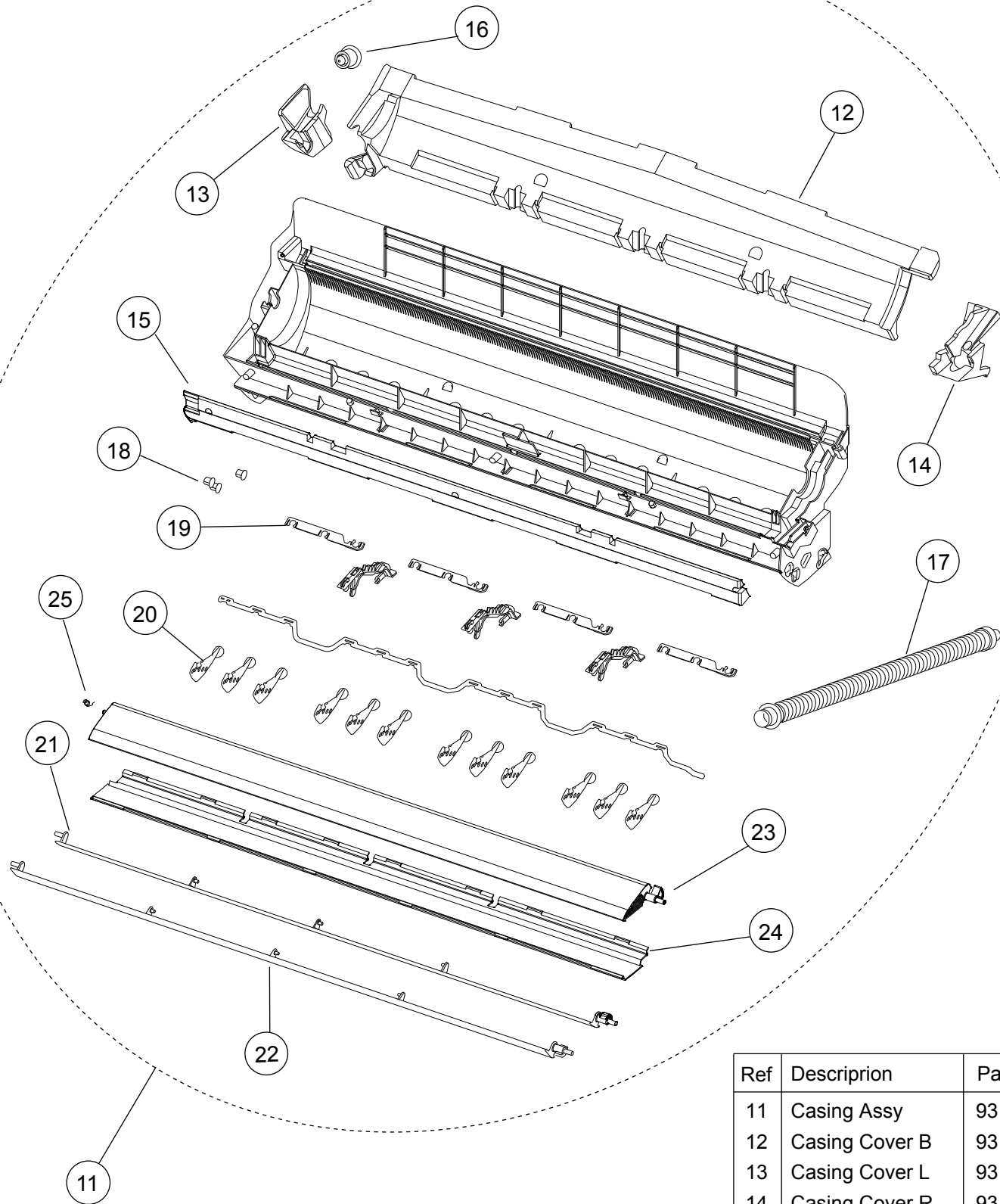
LED	ERROR
0.5 second on / 0.5 second off	Overload protection
on	Discharge temperature abnormal
0.1 second on / 0.1 second off	Thermistor abnormal
2.0 second on / 2.0 second off	CT abnormal
0.1 second on / 2.0 second off	Compressor location abnormal
5.0 second on / 5.0 second off	Fan abnormal

PARTS

INDOOR UNIT

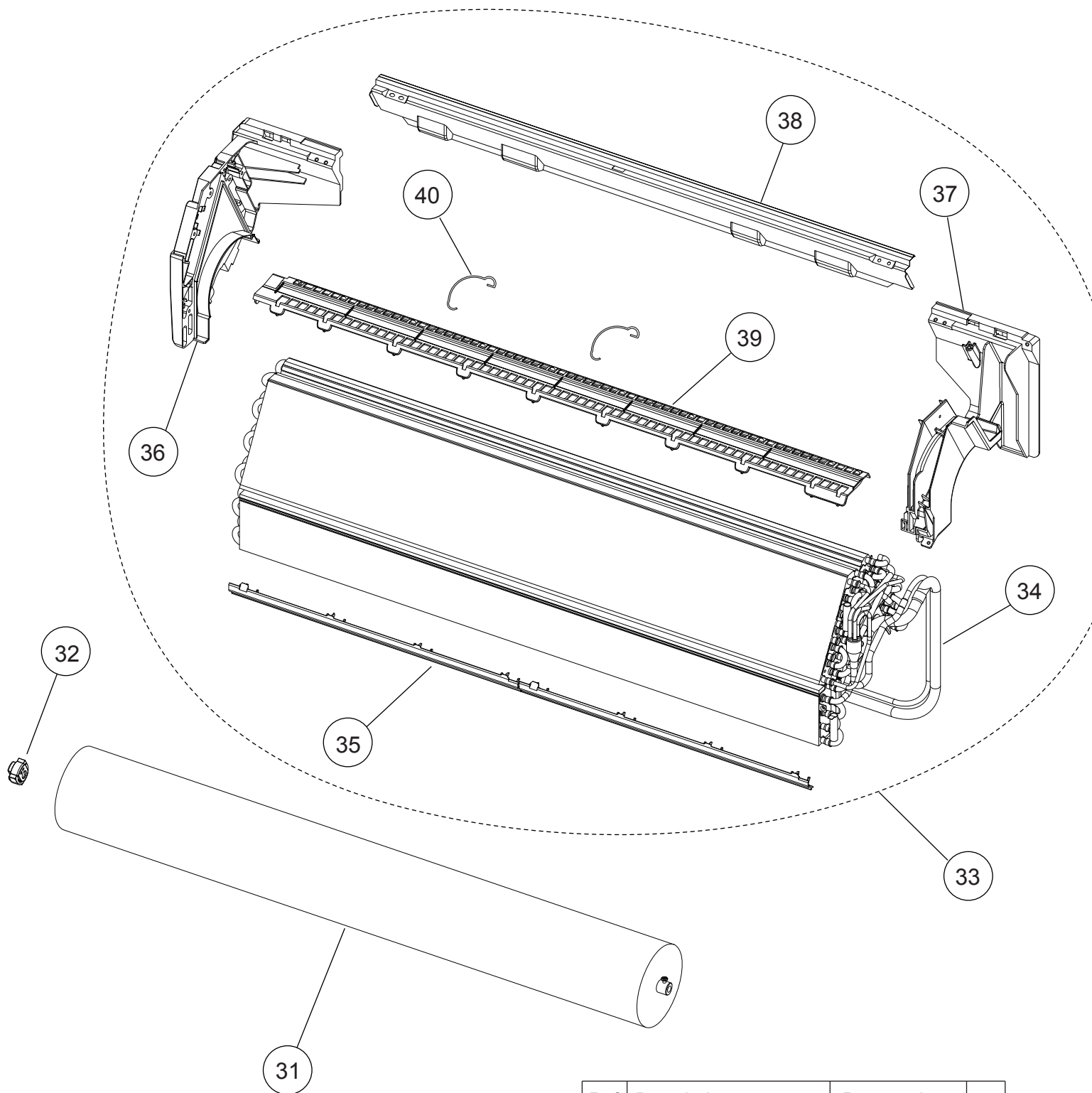


Ref	Description	Part number	
1	Front Panel Total Assy	9315335012	
2	Front Panel	9314991011	
3	Intake Grille Assy	9315336019	
4	Air Filter	9315014016	
5	Clamper Grille	9306755010	
6	Receiver Window	9315010018	
7	Room Thermistor Holder	9315252012	
--	Air Clean Filter Assy	9315212016	
--	Remote Control	9317445009	
--	Remote Control Holder	9305642045	



INDOOR UNIT

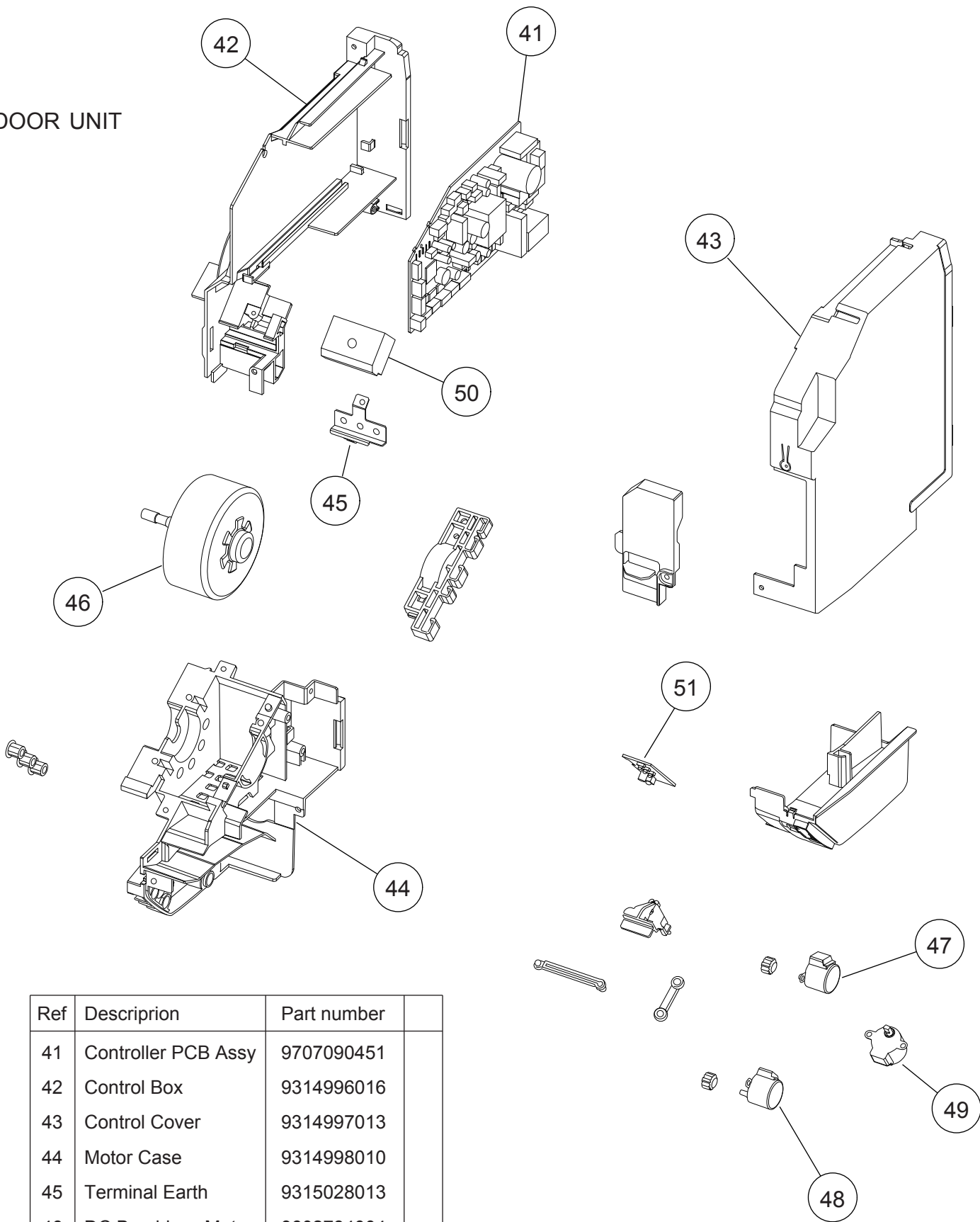
Ref	Description	Part number
11	Casing Assy	9315331038
12	Casing Cover B	9315016010
13	Casing Cover L	9315017017
14	Casing Cover R	9315018014
15	Casing Cover F	9315019011
16	Drain Cap	9367677009
17	Drain Hose Assy	9315769015
18	Bush B	9312156016
19	Spacer B	9312441013
20	R and L Louver	9311997016
21	Louver U	9315000019
22	Louver Z	9315001016
23	Diffuser U	9315002013
24	Diffuser Z	9315003010
25	Spring C	9314142017
--	Fan Guard	9305751051
--	Fan Guard Holder R	9315814012
--	Fan Guard Holder L	9315815019



INDOOR UNIT

Ref	Description	Part number	
31	Crossflow Fan Assy	9315024015	
32	Bearing C Assy	9306628017	
33	Evaporator Total Assy	9315338075	
34	Connection Pipe Assy	9315354020	
35	Water Seal	9315251015	
36	Evaporator Holder L	9314995019	
37	Evaporator Holder R	9314994012	
38	Rear Bracket	9315022011	
39	Filter Guide	9315013019	
40	Filter Guard	9315411013	

INDOOR UNIT

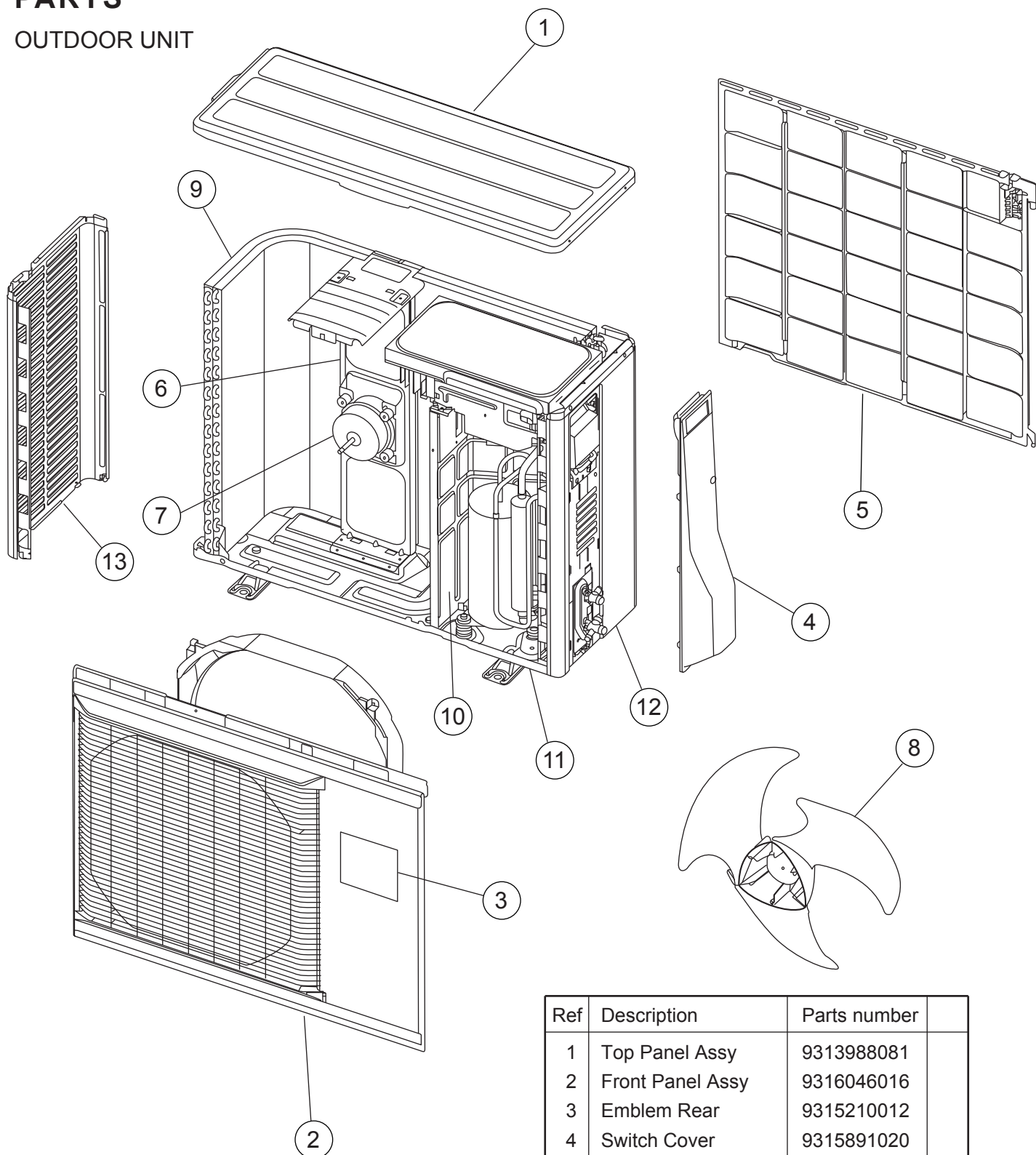


Ref	Description	Part number	
41	Controller PCB Assy	9707090451	
42	Control Box	9314996016	
43	Control Cover	9314997013	
44	Motor Case	9314998010	
45	Terminal Earth	9315028013	
46	DC Brushless Motor	9602784004	
47	Motor, Step	9900384029	
48	Motor, Step	9900384036	
49	Motor, Step	9900139063	
50	Terminal	9900447014	
51	Indicator PCB Assy	9707210019	
--	Pipe Thermistor	9900389017	

Room thermistor is tied to a Controller PCB assy.

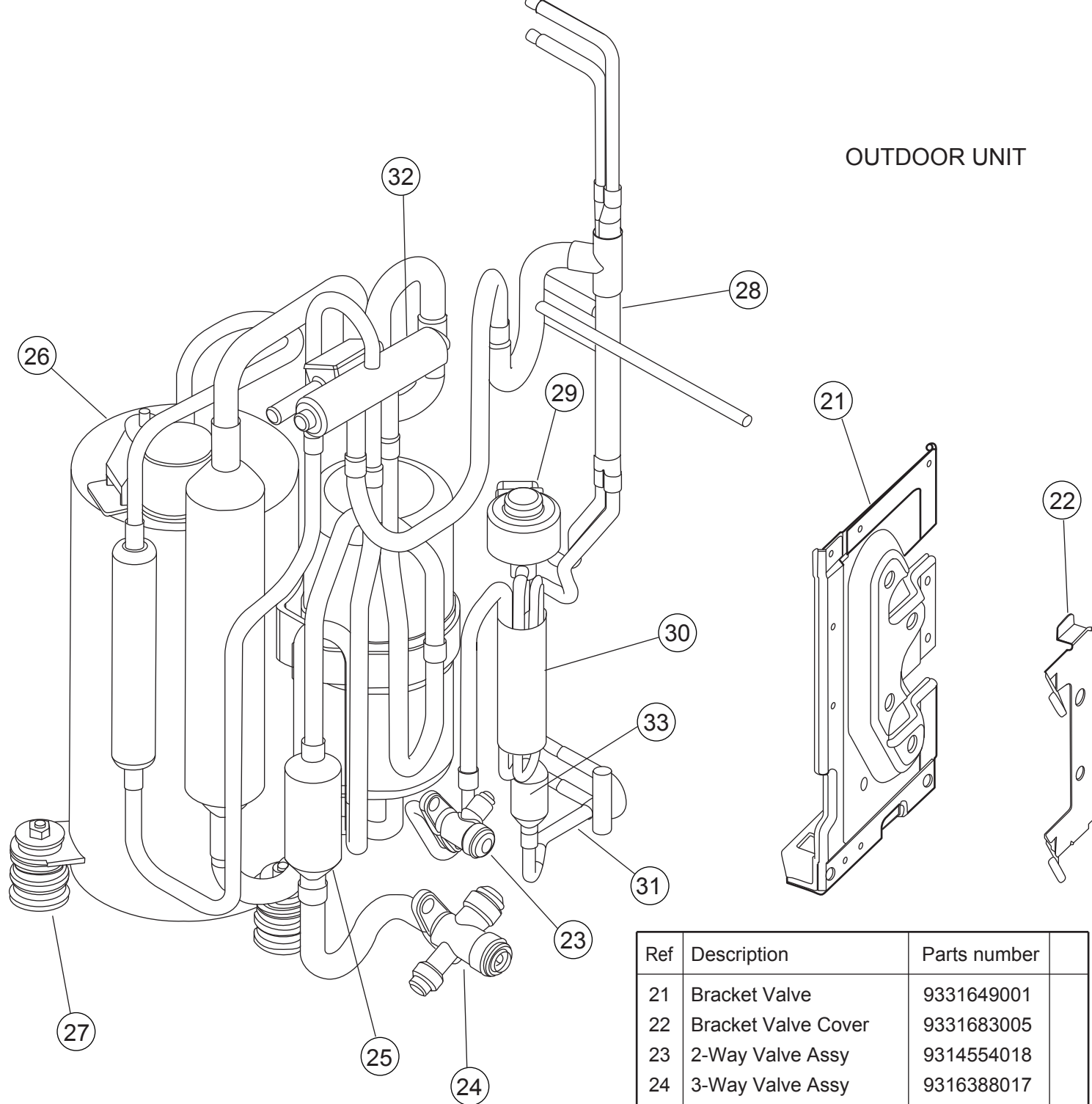
PARTS

OUTDOOR UNIT



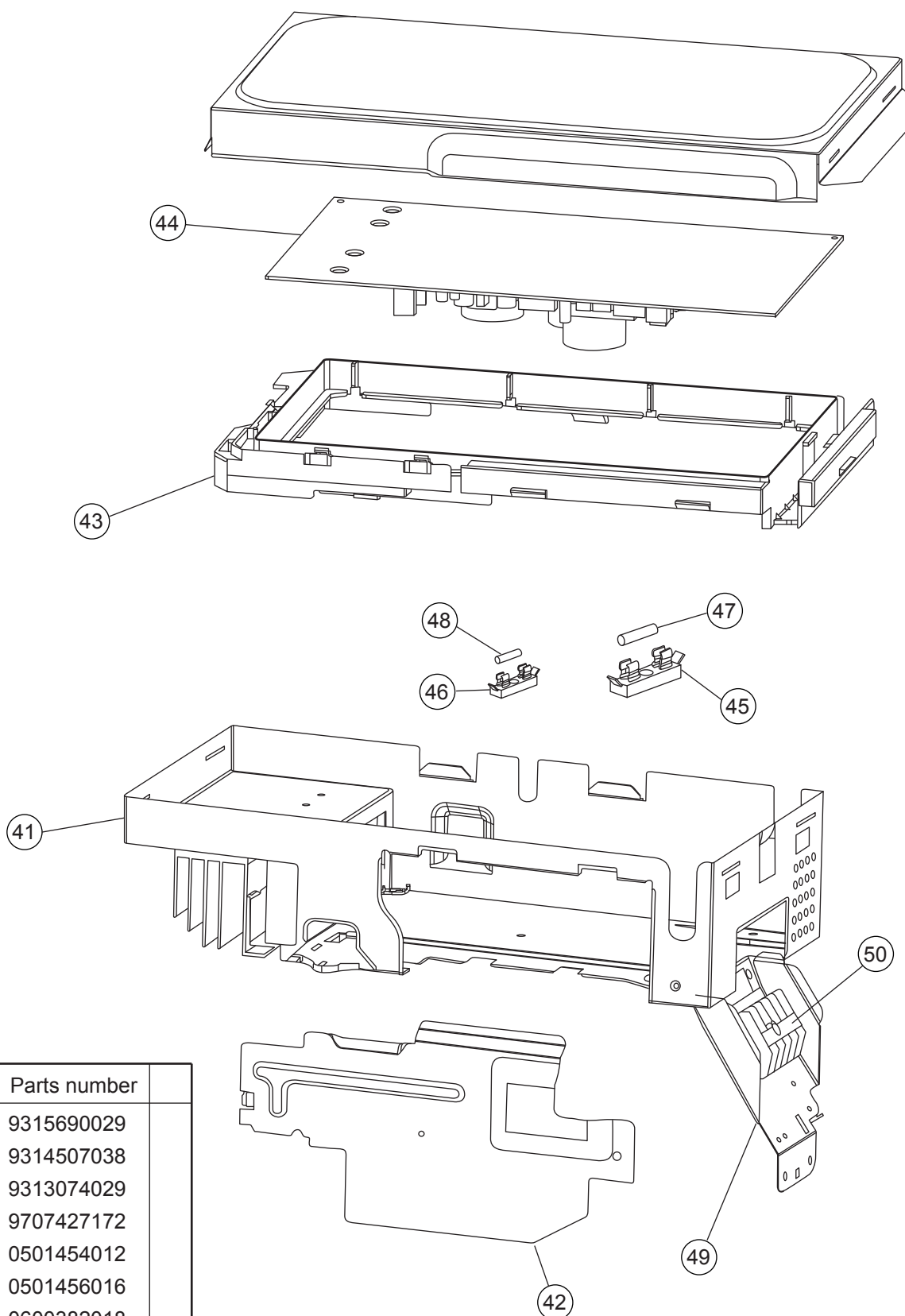
Ref	Description	Parts number	
1	Top Panel Assy	9313988081	
2	Front Panel Assy	9316046016	
3	Emblem Rear	9315210012	
4	Switch Cover	9315891020	
5	Protective Net	9331640008	
6	Motor Bracket	9315894014	
7	DC Brushless Motor	9602724017	
8	Propeller Fan	9313808013	
9	Condenser Assy	9317119009	
10	Separate Wall Assy	9331722001	
11	Base Assy	9316885004	
12	Cabinet Right Assy	9316044029	
13	Cabinet Left Assy	9316042018	
--	Drain Pipe	9303029022	

OUTDOOR UNIT



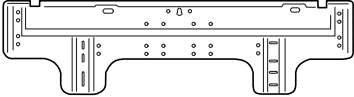
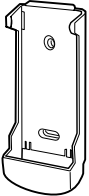
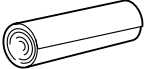
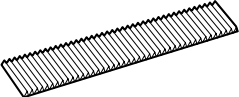
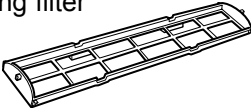
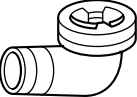
Ref	Description	Parts number	
21	Bracket Valve	9331649001	
22	Bracket Valve Cover	9331683005	
23	2-Way Valve Assy	9314554018	
24	3-Way Valve Assy	9316388017	
25	Muffler	9316276017	
26	Compressor Assy	9313279011	
27	Rubber Cushion	9306410001	
28	Entrance Pipe Assy	9317121019	
29	Expansion Valve Coil	9900057039	
30	Pulse Motor Valve Assy	9314557019	
31	Pipe (Cond Exit) Assy	9317105002	
32	4-Way Valve	9900162016	
33	Strainer C	9311440017	
--	Solenoid	9970055010	
--	Pipe (Cond Sepa) Assy	9317127004	
--	Discharge Pipe Assy	9331772006	
--	Joint Pipe (Cond)	9331780018	
--	Suction Pipe Assy	9331775007	
--	Joint Pipe (3WV) Assy	9331777001	
--	Reactor Assy	9900354022	

OUTDOOR UNIT



Ref	Description	Parts number
41	Inverter Case Assy	9315690029
42	Inverter Case Cover	9314507038
43	PCB Holder	9313074029
44	PCB Assy	9707427172
45	Fuse Holder	0501454012
46	Fuse Holder	0501456016
47	Fuse	0600382018
48	Fuse	0600376086
49	Bracket Terminal	9315233035
50	Terminal	9703874031
--	Terminal Cover	9331704007
--	Thermistor Assy	9900148041
--	Outdoor Thermistor	9900210038

ACCESSORIES

Name and Shape	Part number
Wall hook bracket 	9315023018
Remote control 	9317445009
Remote control holder 	9305642045
Battery (penlight) 	0600185527
Cloth tape 	9310519004
Tapping screw (big) 	0700076046
Tapping screw (small) 	0700019036
Air cleaning filter 	9312153060
	9311925071
Air cleaning filter frame 	9368568009
Drain pipe 	9303029022

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