

SPLIT TYPE
ROOM AIR CONDITIONER
WALL MOUNTED TYPE

SERVICE MANUAL



Indoor unit Outdoor unit
ASYA30LFC AOYR30LFT

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SPECIFICATIONS

ELECTRICAL DATA

TYPE		Cool & heat inverter
INDOOR UNIT		ASYA30LFC
OUTDOOR UNIT		AOYR30LFT
COOLING CAPACITY		8.00 kW
HEATING CAPACITY		8.80 kW
POWER SOURCE		230 V
FREQUENCY		50 Hz
RUNNING CURRENT	COOLING	10.9 A
	HEATING	10.7 A
INPUT WATTS	COOLING	2.49 kW
	HEATING	2.44 kW
E.E.R.	COOLING	3.21 kW/kW
COP	HEATING	3.61 kW/kW
MOISTURE REMOVAL		3.2 L/hr
AIR CIRCULATION HIGH		1,100 m ³ /hr
MAXIMUM CURRENT	COOLING	17.0 A
	HEATING	19.0 A

FAN MOTOR

POWER SOURCE		230 V
INDOOR UNIT (Cool)	High	1,430 r.p.m.
	Medium	1,220 r.p.m.
	Low	1,020 r.p.m.
	Quiet	900 r.p.m.
INDOOR UNIT (Heat)	High	1,530 r.p.m.
	Medium	1,220 r.p.m.
	Low	1,020 r.p.m.
	Quiet	900 r.p.m.
OUTDOOR UNIT (Cool)		850 r.p.m.
OUTDOOR UNIT (Heat)		850 r.p.m.

NOISE LEVEL

INDOOR UNIT (Cool)	High	48 dB
	Medium	42 dB
	Low	37 dB
	Quiet	33 dB
INDOOR UNIT (Heat)	High	49 dB
	Medium	42 dB
	Low	37 dB
	Quiet	33 dB
OUTDOOR UNIT (Cool)		53 dB
OUTDOOR UNIT (Heat)		55 dB

COMPRESSOR AND REFRIGERANT

TYPE		Hermetic type, 4 pole, Rotary, DC inverter motor
DISCRIMINATION		N-TF30ND1A
WEIGHT WITH OIL		15.5 kg
PRECHARGED REFRIGERANT		2,100 g
REFRIGERANT TYPE		R410A
FULL CHARGE	Pipe length 20 m	2,100 g
	50 m	3,300 g
ADDITIONAL CHARGE		40 g/m
MAXIMUM HEIGHT		30 m

DIMENSIONS

INDOOR UNIT	H x W x D	320 x 998 x 228 mm
OUTDOOR UNIT	H x W x D	830 x 900 x 330 mm

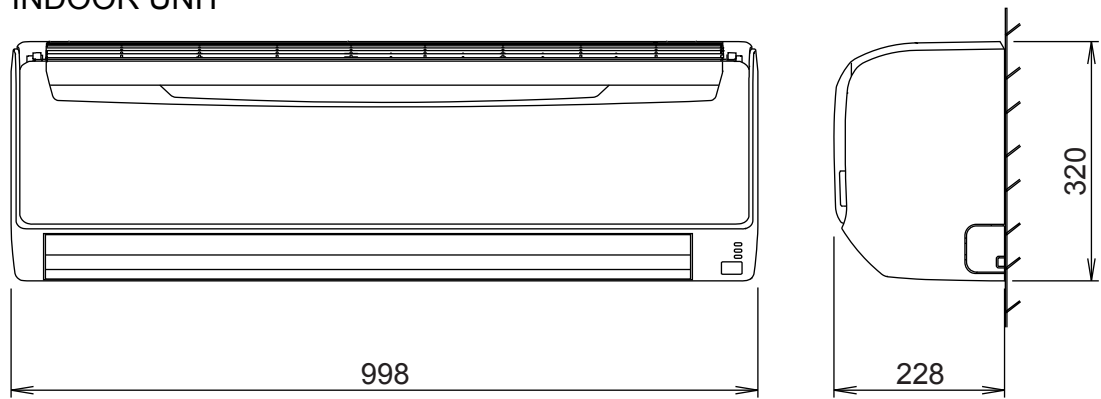
WEIGHT

INDOOR UNIT	Shipping / Net	18 kg / 14 kg
OUTDOOR UNIT	Shipping / Net	68 kg / 61 kg

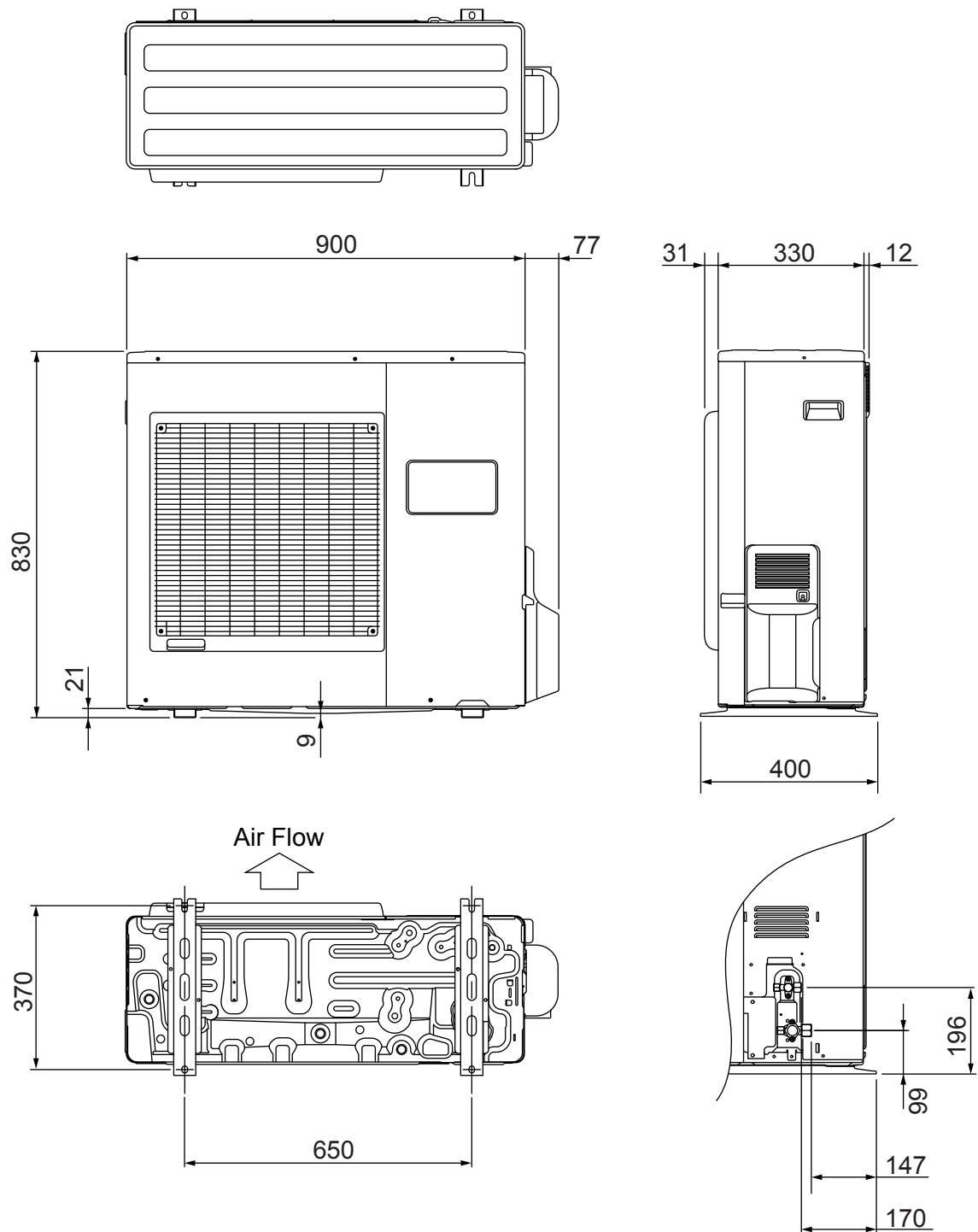
OUTLINE AND DIMENSIONS

(unit : mm)

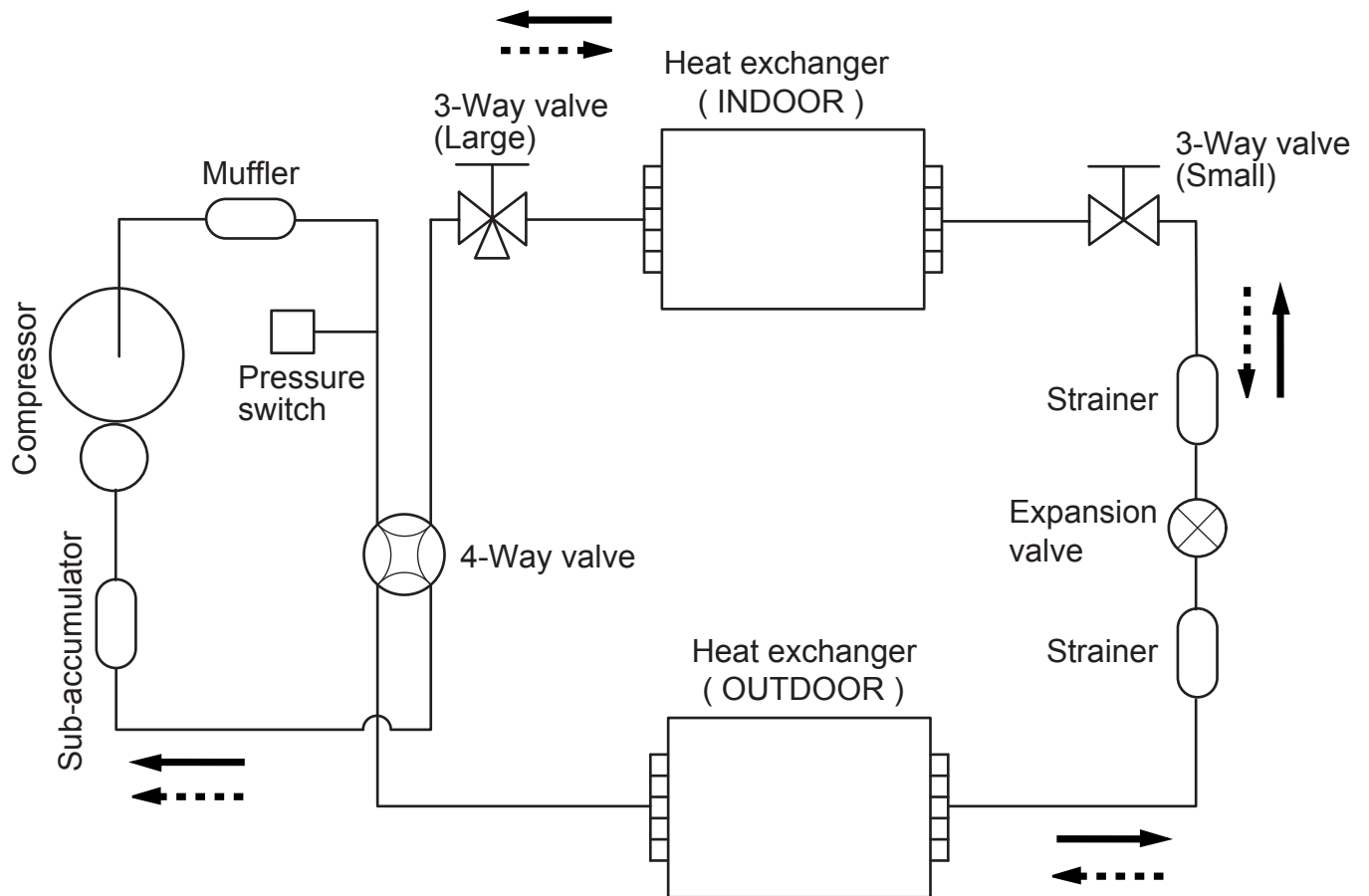
INDOOR UNIT



OUTDOOR UNIT



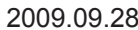
REFRIGERANT SYSTEM DIAGRAM



—————> Cooling
 - - - - -> Heating

Refrigerant pipe diameter
 Liquid : 3/8" (9.52 mm)
 Gas : 5/8" (15.88 mm)

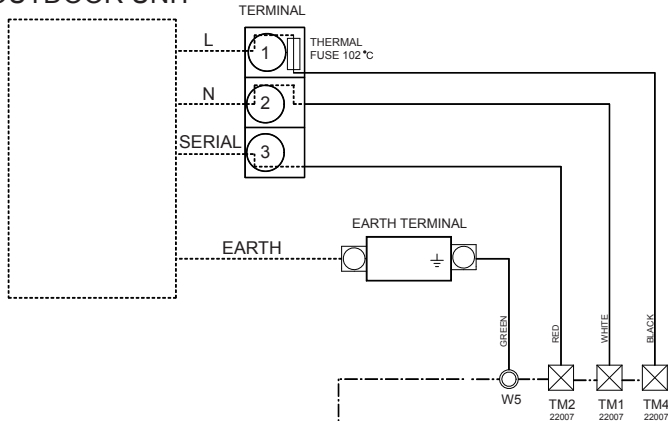
INDOOR UNIT



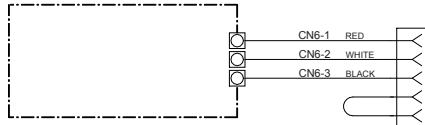
INDOOR PCB CIRCUIT DIAGRAM

CONTROL UNIT : EZ-009HHSE

OUTDOOR UNIT

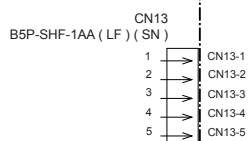
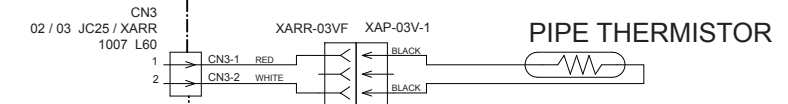
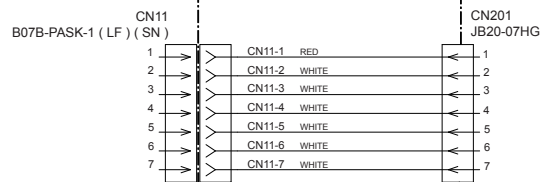
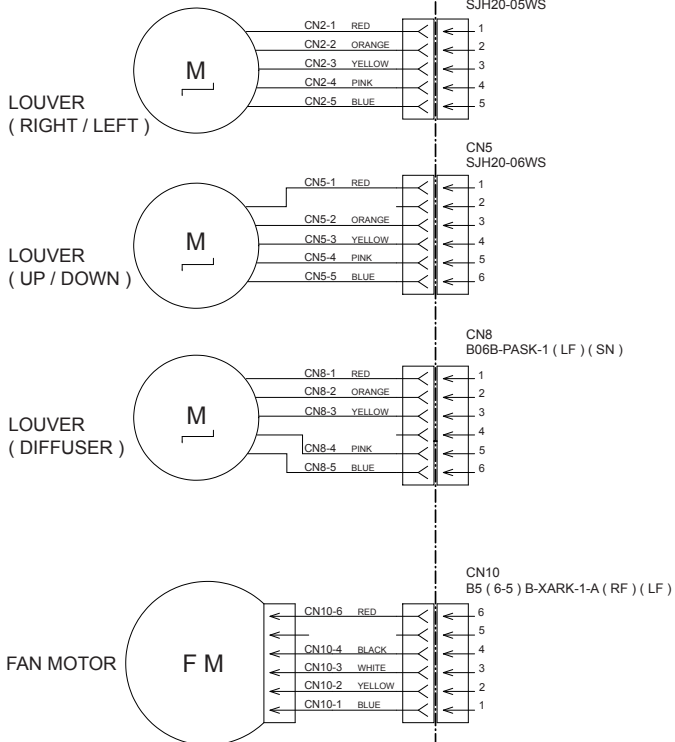


WIRED REMOTE CONTROL (OPTION)

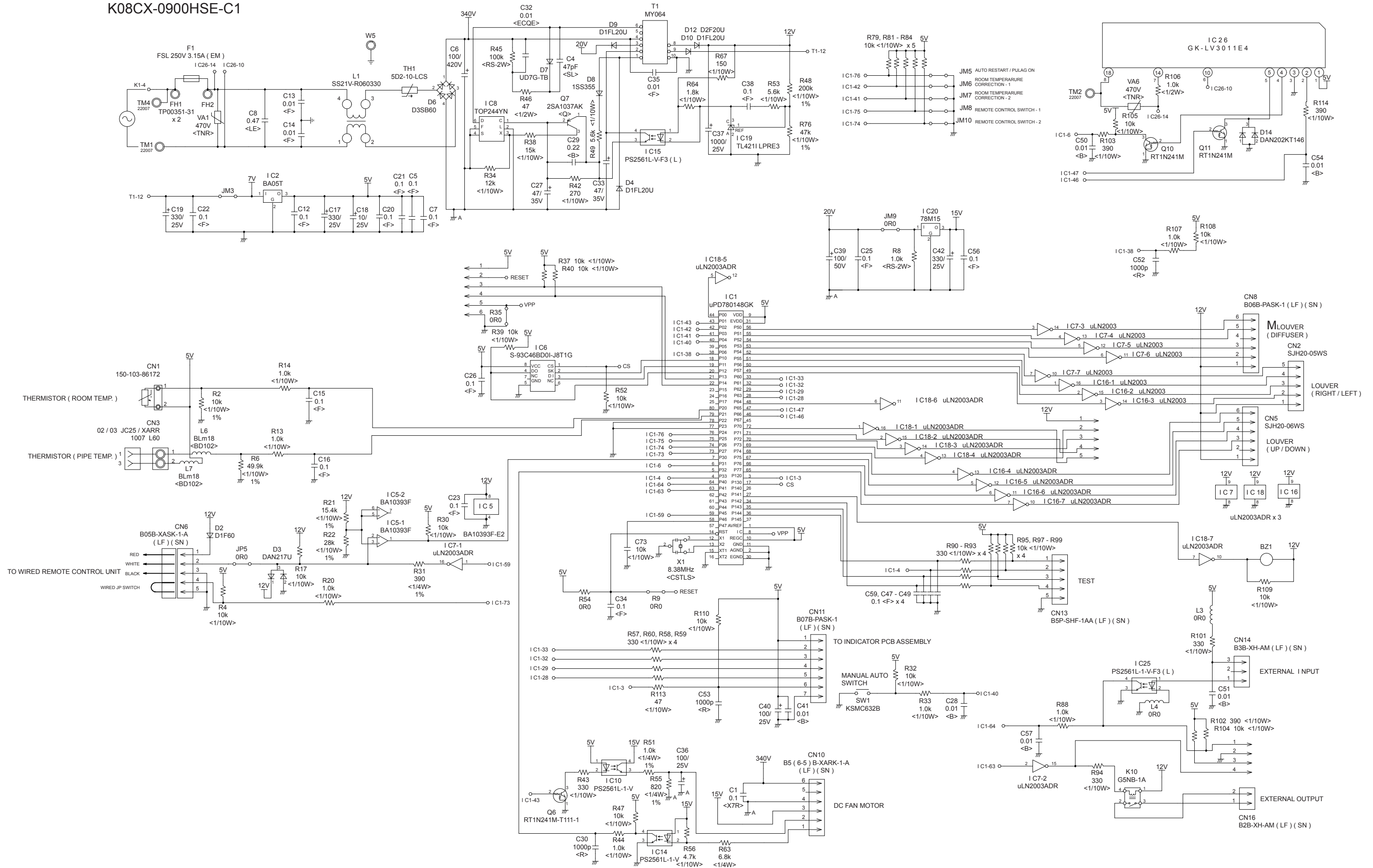


CONTROLLER PCB ASSEMBLY K08CX-0900HSE-C1

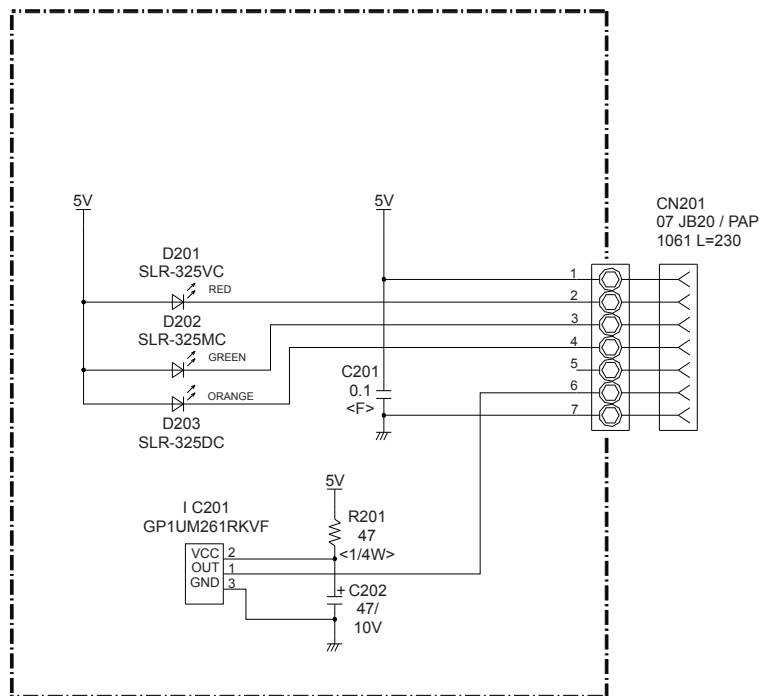
INDICATOR PCB ASSEMBLY K05CY-0500HSE-D0



INDOOR UNIT
CONTROLLER PCB ASSEMBLY
K08CX-0900HSE-C1



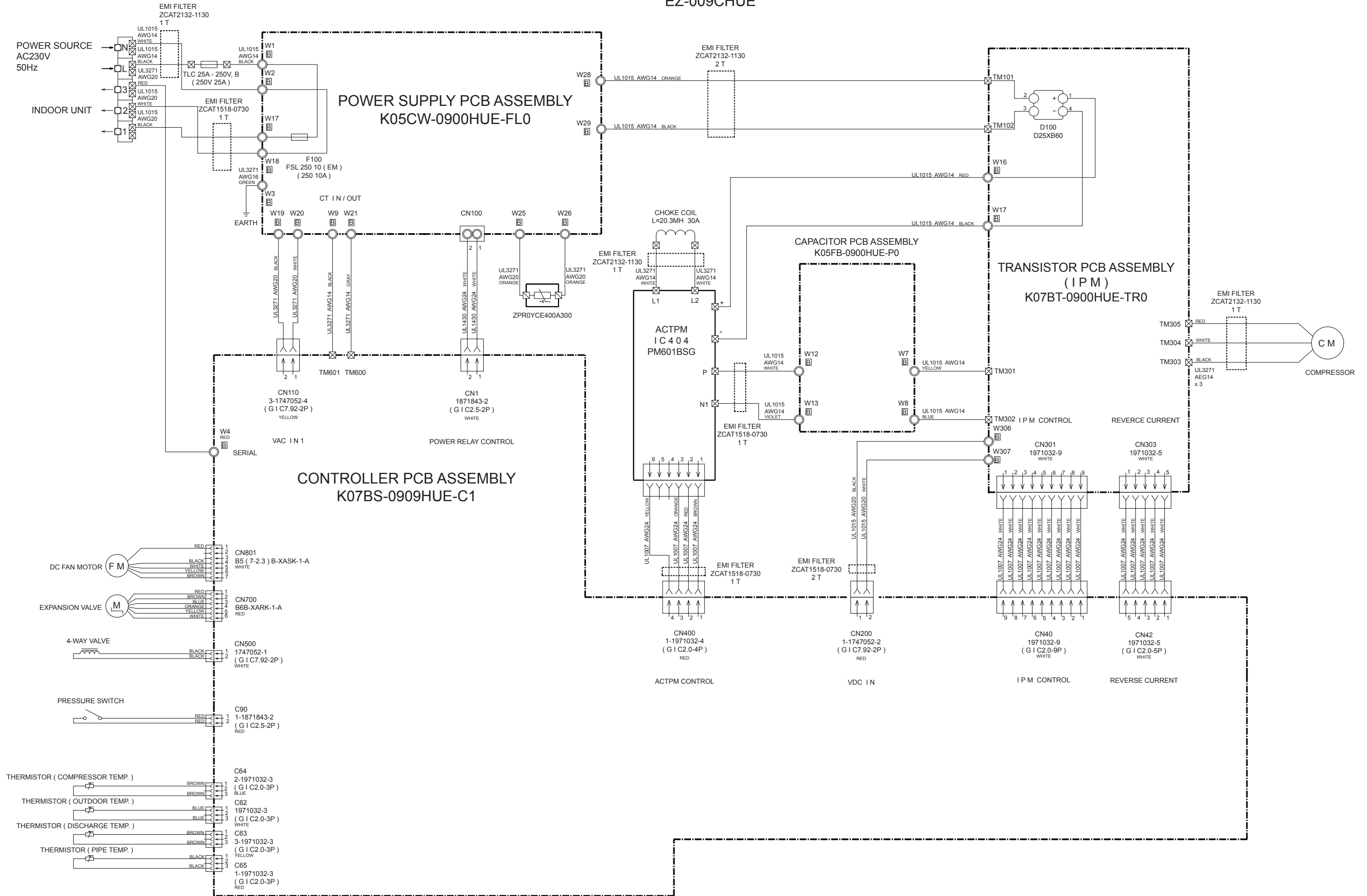
INDOOR UNIT
INDICATOR PCB ASSEMBLY
K05CY-0500HSE-D0



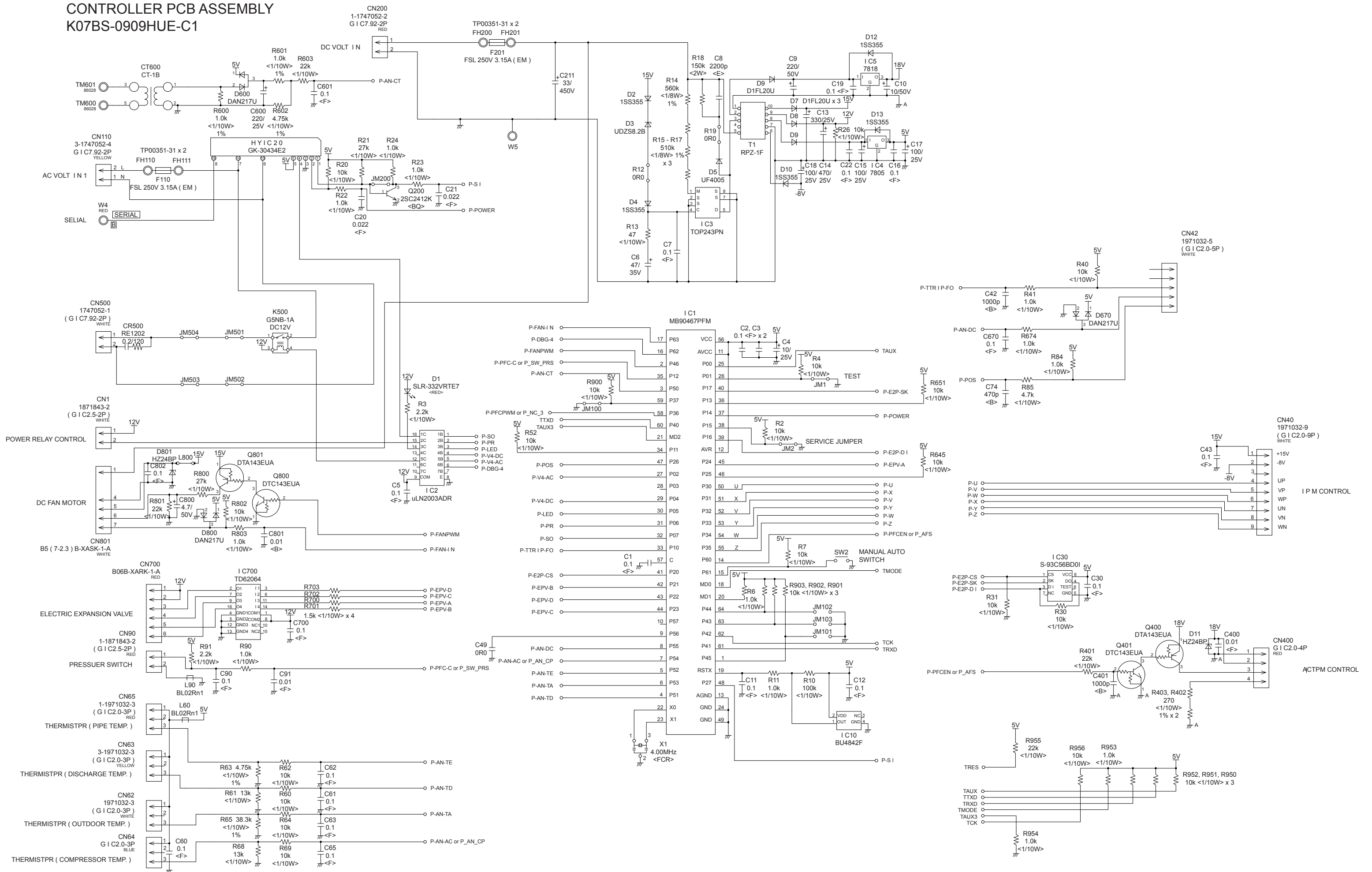
OUTDOOR PCB CIRCUIT DIAGRAM

INVERTER ASSEMBLY

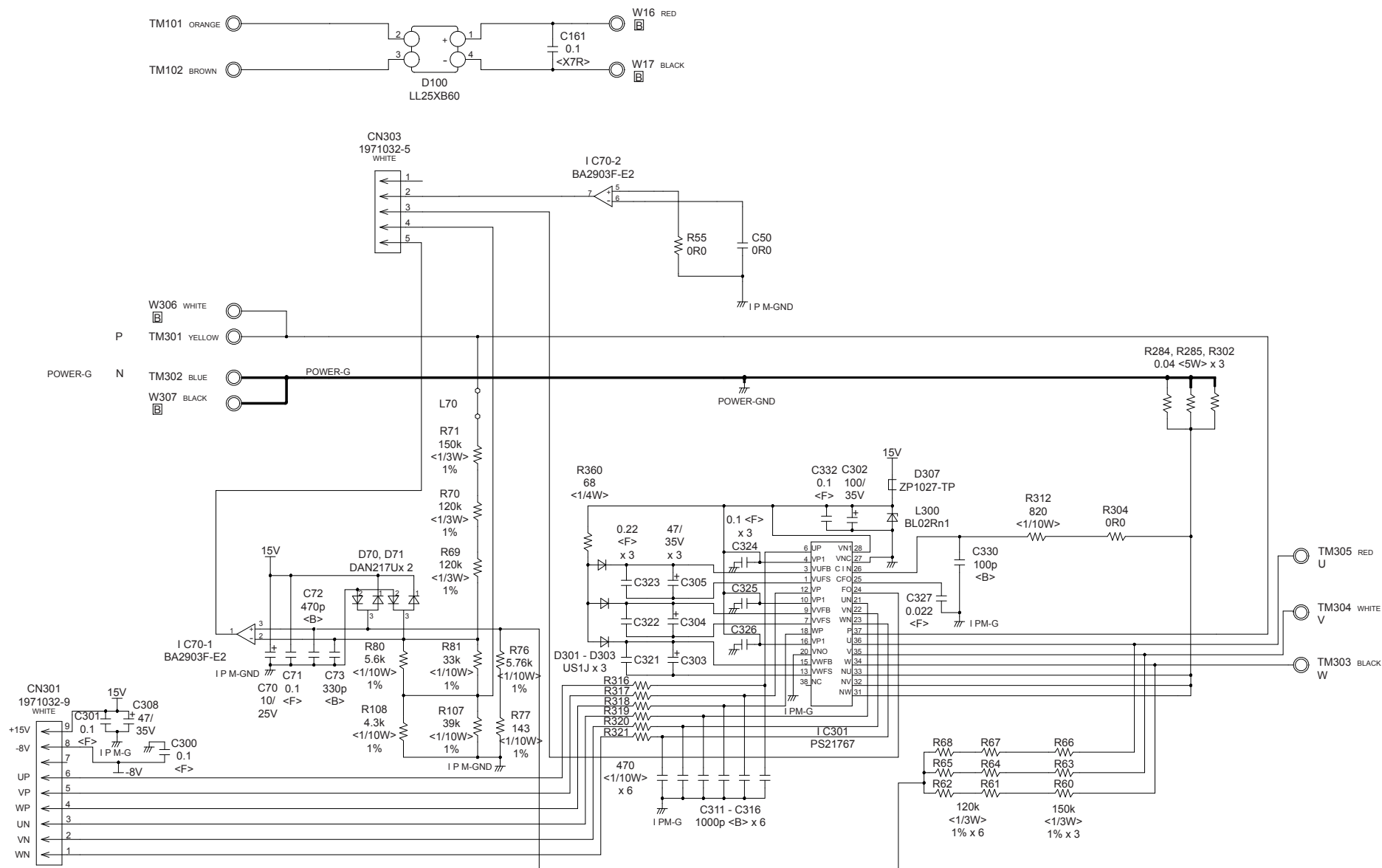
EZ-009CHUE



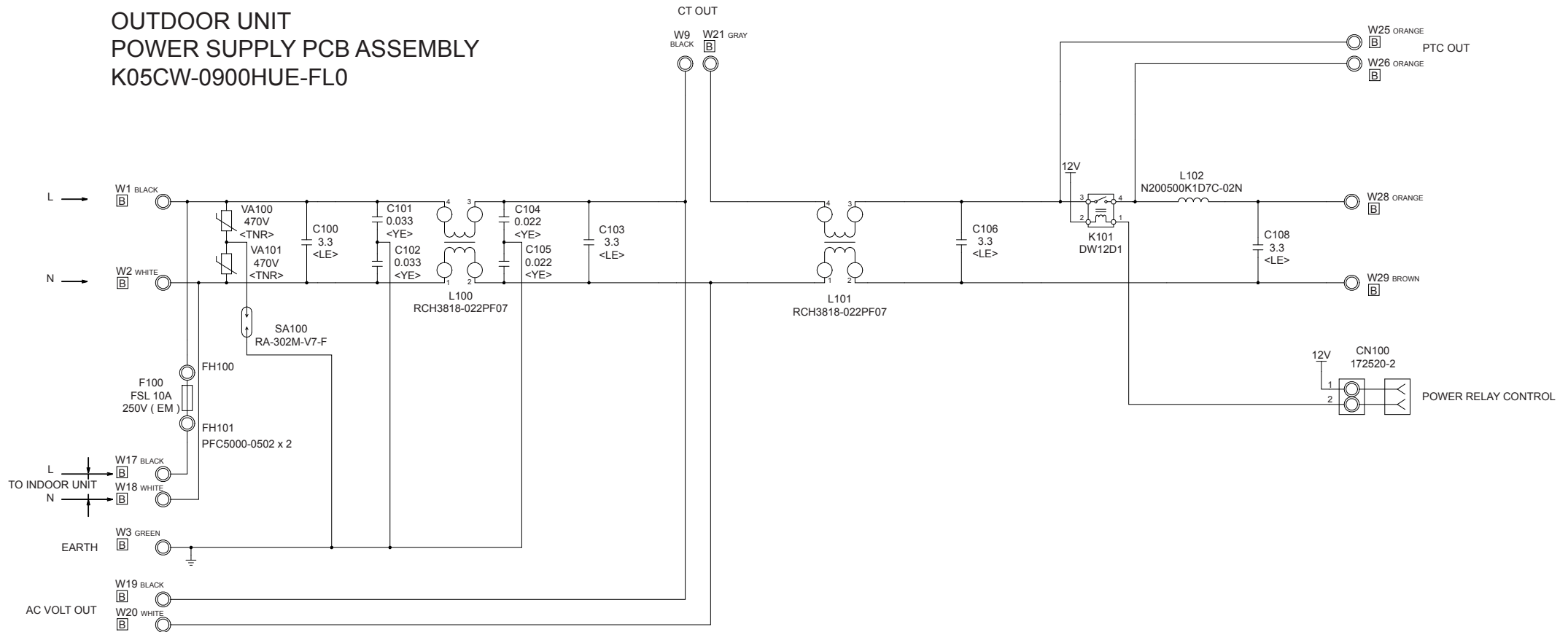
OUTDOOR UNIT
CONTROLLER PCB ASSEMBLY
K07BS-0909HUE-C1



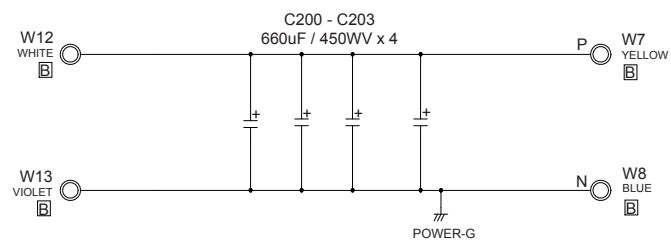
OUTDOOR UNIT
TRANSISTOR PCB ASSEMBLY (I P M PCB)
K07BT-0900HUE-TR0



OUTDOOR UNIT POWER SUPPLY PCB ASSEMBLY K05CW-0900HUE-FL0



OUTDOOR UNIT
CAPACITOR PCB ASSEMBLY
K05FB-0900HUE-P0



ERROR CONTENTS

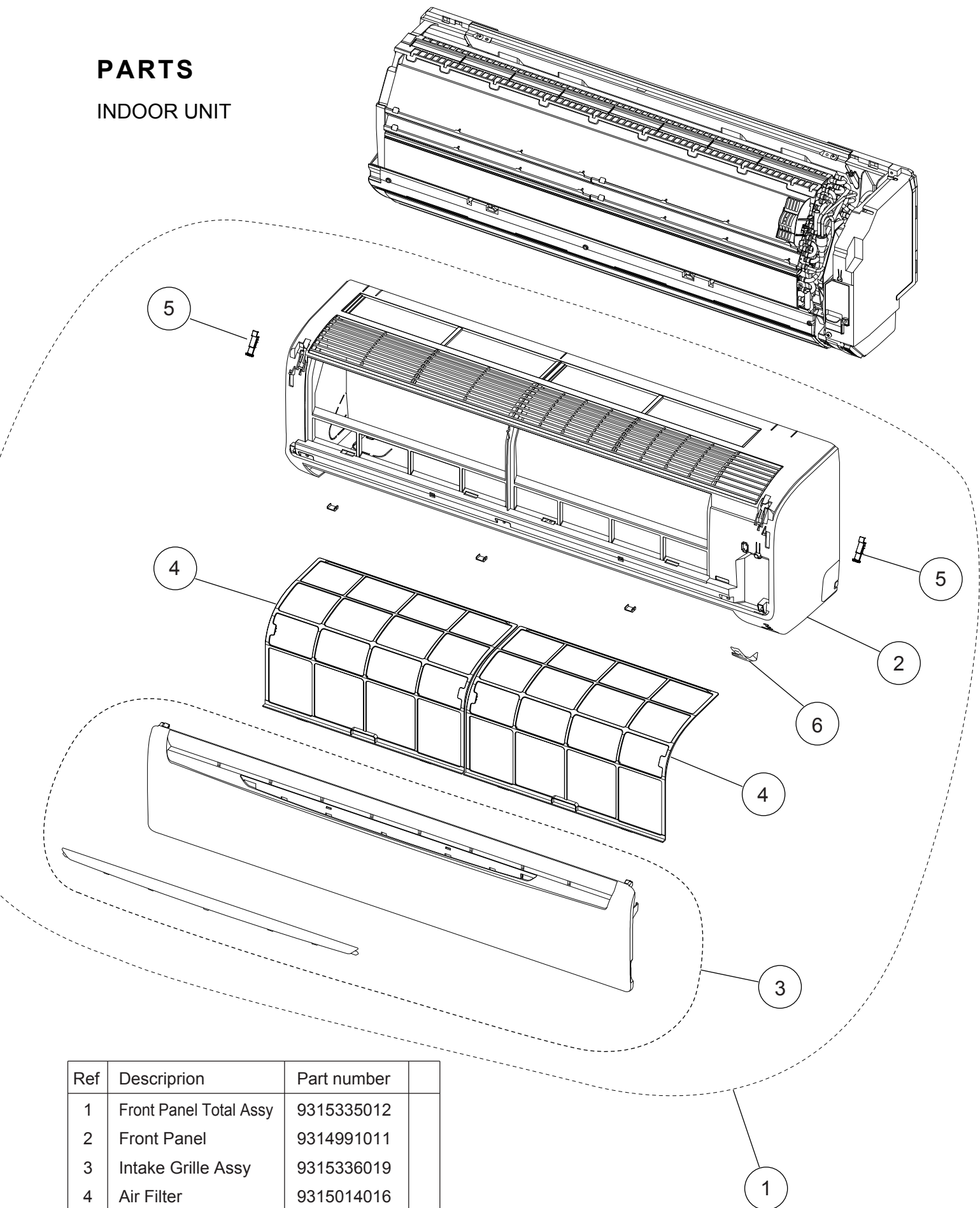
Error	Display		Error
	Operation LED	Timer LED	
Serial signal error	Normal	2 flash	Serial signal (reverse) error, at operation start up
		3 flash	Serial signal (reverse) error, during operation
		4 flash	Serial signal (forward) error, at operation start up
		5 flash	Serial signal (forward) error, during 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
on	Discharge temperature abnormal
0.5 second on / 0.5 second off	IPM overcurrent protection
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

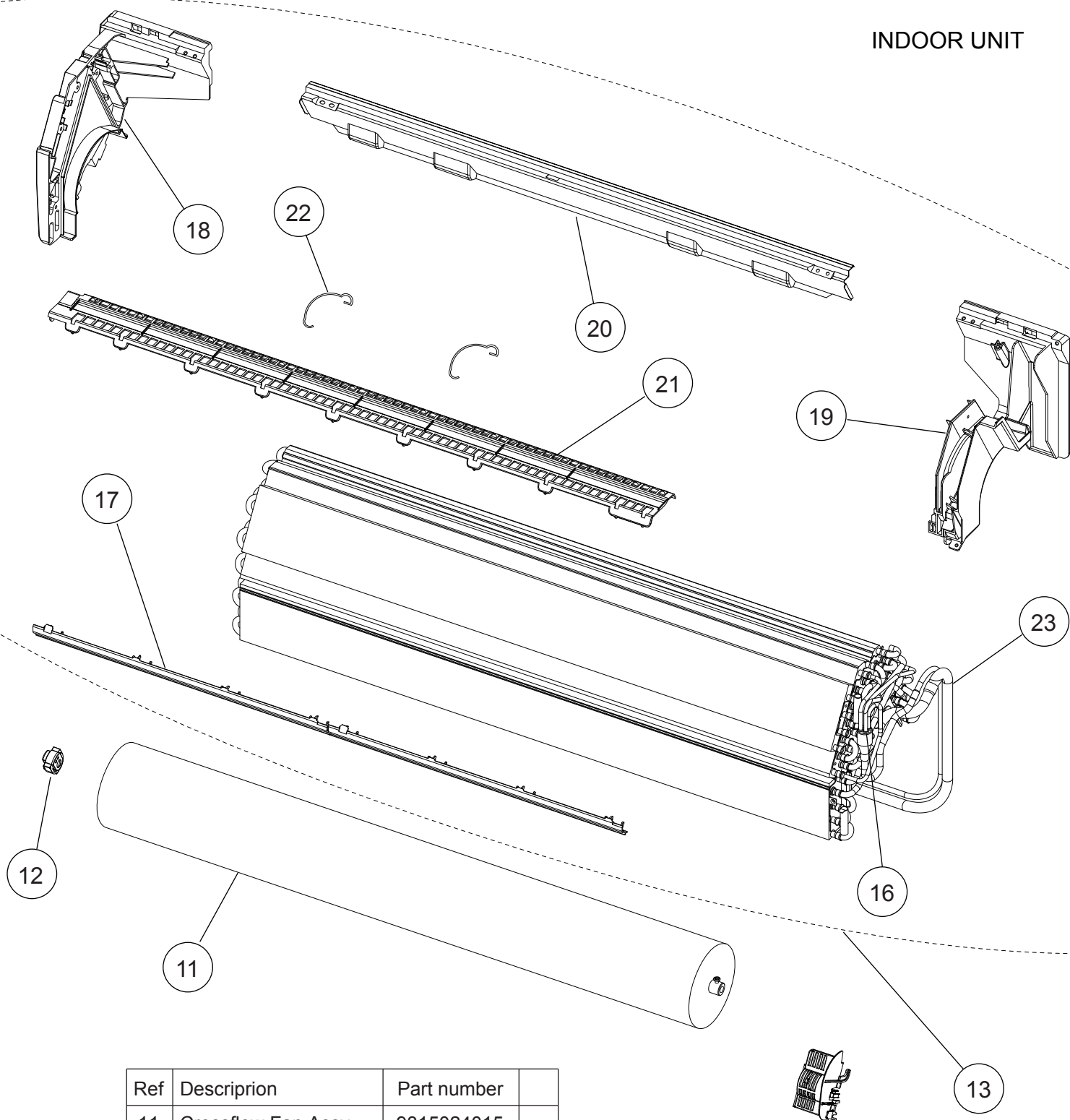
PARTS

INDOOR UNIT



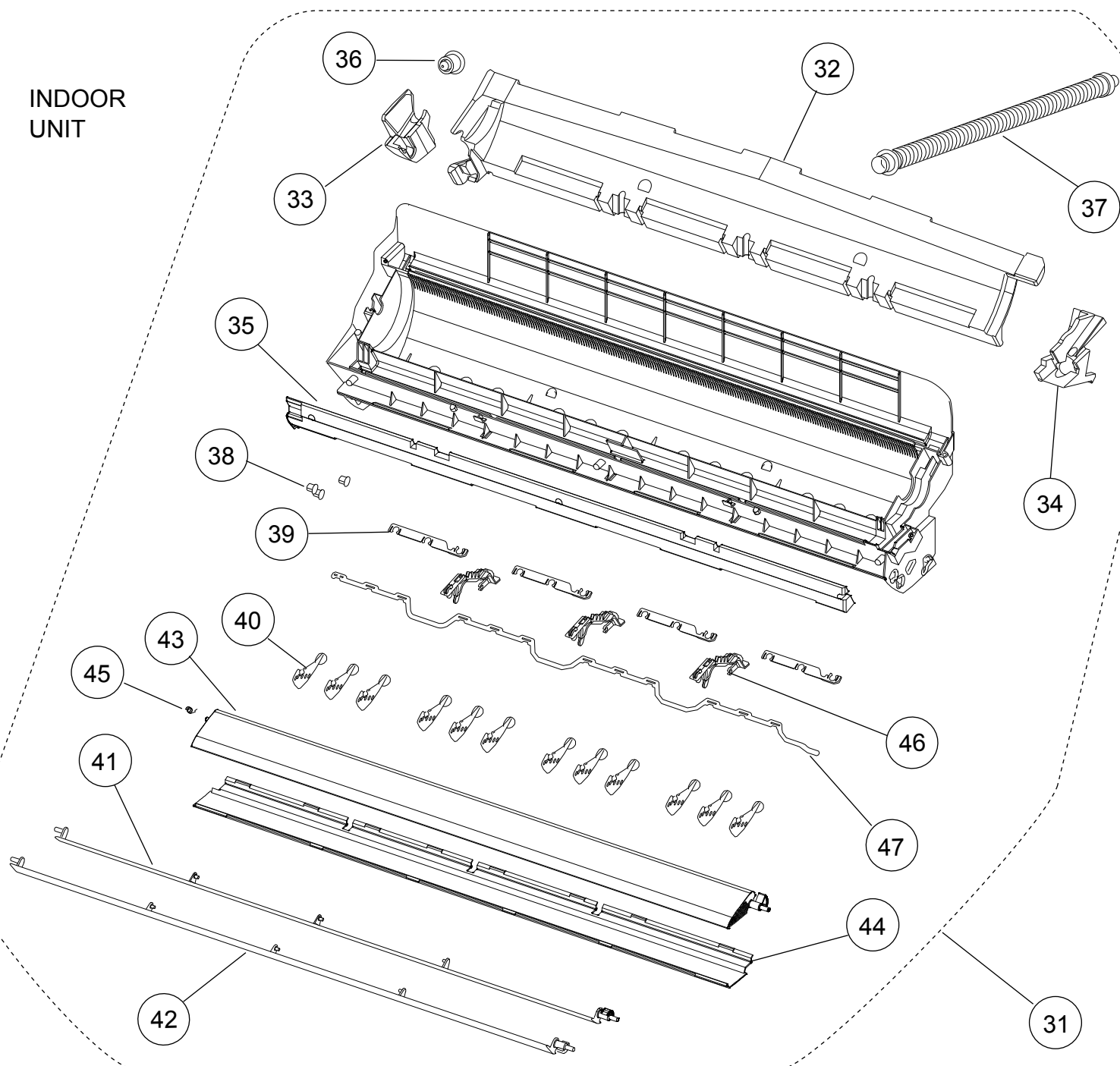
Ref	Description	Part number	
1	Front Panel Total Assy	9315335012	
2	Front Panel	9314991011	
3	Intake Grille Assy	9315336019	
4	Air Filter	9315014016	
5	Clamper Grille	9306755010	
6	Receiver Window	9315010018	
--	Air Clean Filter Assy	9315212018	
--	Remote	9315027139	
--	Remote Holder	9305642045	

INDOOR UNIT



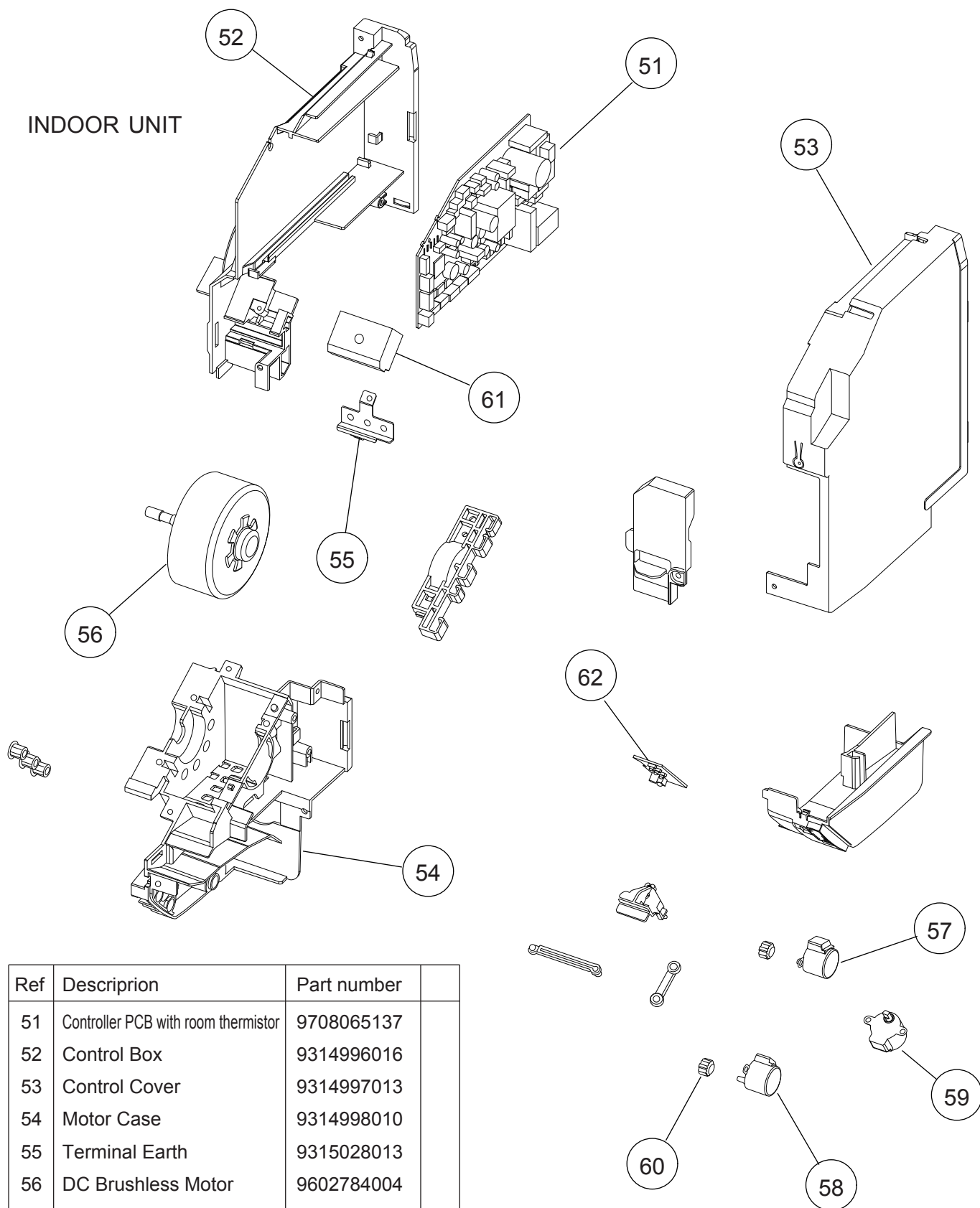
Ref	Description	Part number	
11	Crossflow Fan Assy	9315024015	
12	Bearing C Assy	9306628017	
13	Evaporator Total Assy	9315338020	
16	Distributor Assy	9316988002	
17	Water Seal	9315251015	
18	Evaporater Holder R	9314994012	
19	Evaporater Holder L	9314995019	
20	Rear Bracket	9315022011	
21	Filter Guide	9315013019	
22	Filter Guard	9315411013	
23	Connection Pipe Assy	9315355010	

INDOOR UNIT



Ref	Description	Part number		Ref	Description	Part number	
31	Casing Assy	9315331045		41	Louver U	9315000019	
32	Casing Cover B	9315016010		42	Louver Z	9315001016	
33	Casing Cover L	9315017017		43	Diffuser U	9315002013	
34	Casing Cover R	9315018014		44	Diffuser Z	9315003010	
35	Casing Cover F	9315019011		45	Spring C	9314142017	
36	Drain Cap	9367677009		46	Piller A	9315009012	
37	Drain Hose Assy	9315769015		47	Joint B	9315006011	
38	Bush B	9312156016		--	Fan Guard	9305751051	
39	Spacer B	9312441013		--	Fan Guard Holder Right	9315814012	
40	R and L Louver	9311997016		--	Fan Guard Holder Left	9315815019	

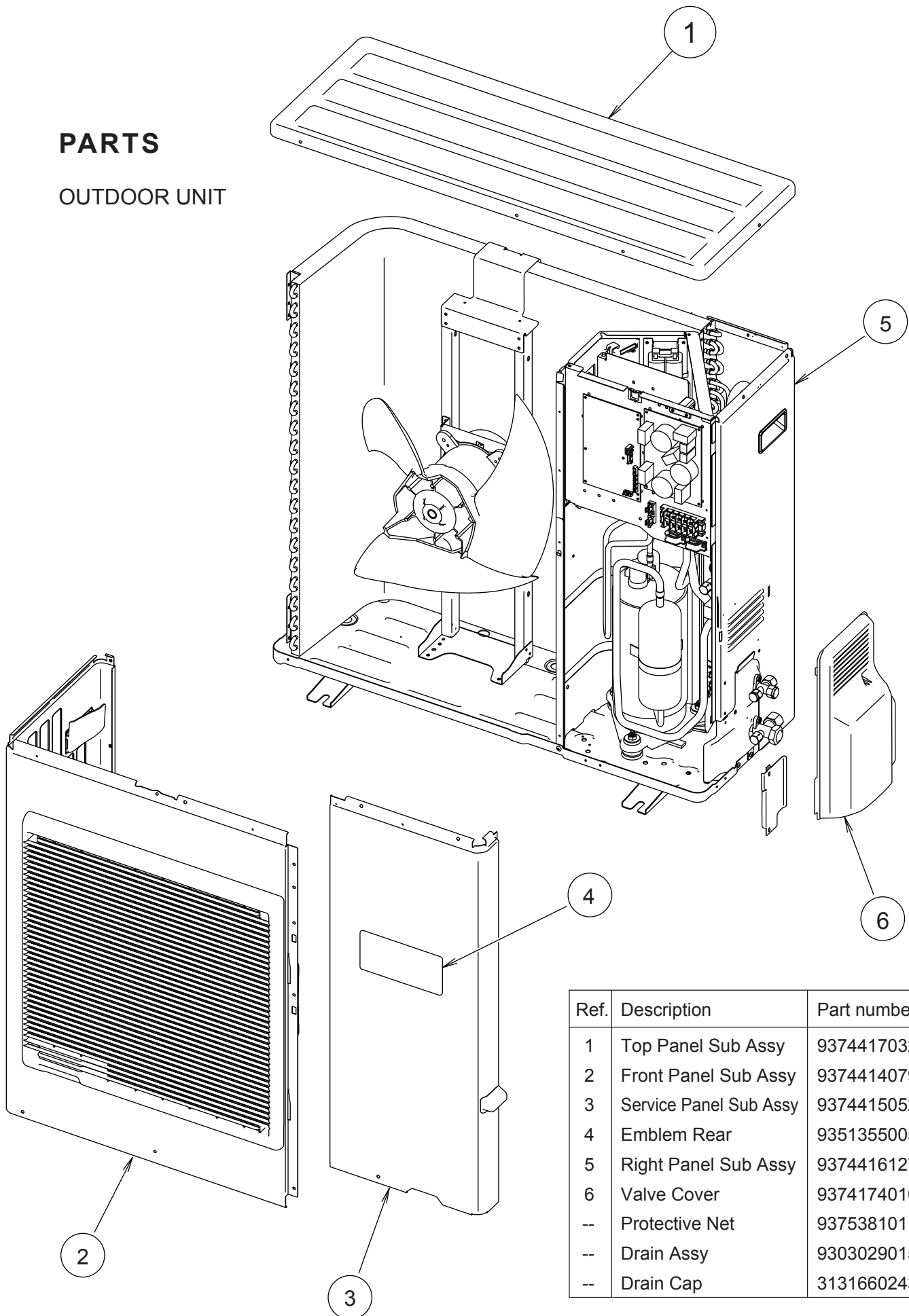
INDOOR UNIT



Ref	Description	Part number
51	Controller PCB with room thermistor	9708065137
52	Control Box	9314996016
53	Control Cover	9314997013
54	Motor Case	9314998010
55	Terminal Earth	9315028013
56	DC Brushless Motor	9602784004
57	Motor, Step	9900384029
58	Motor, Step	9900384036
59	Motor, Step	9900139063
60	Gear A	9309994003
61	Terminal	9900447014
62	Indicator PCB Assy	9707210019
--	Pipe Thermistor	9900389017
--	Room Thermistor	9700801108

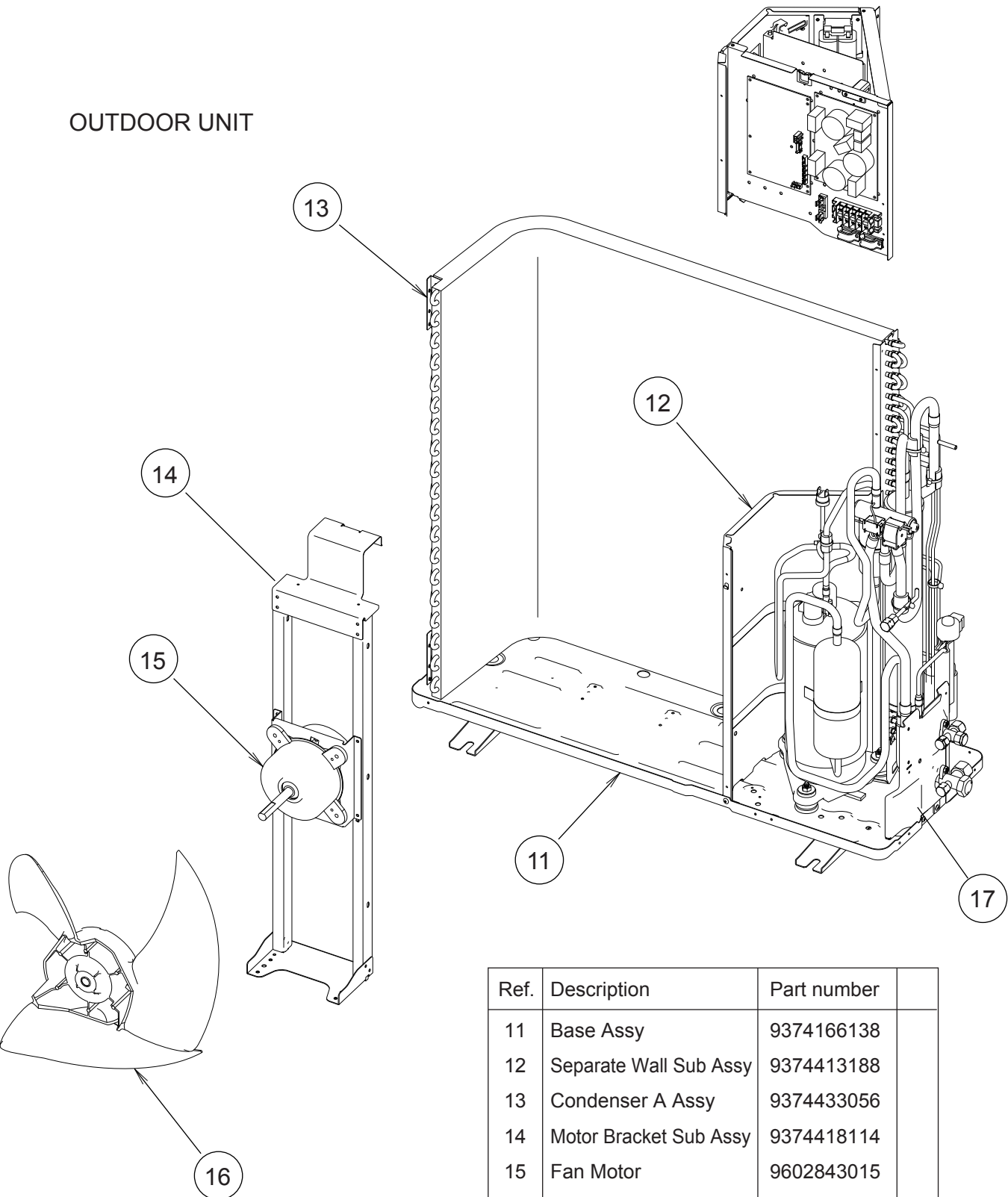
PARTS

OUTDOOR UNIT



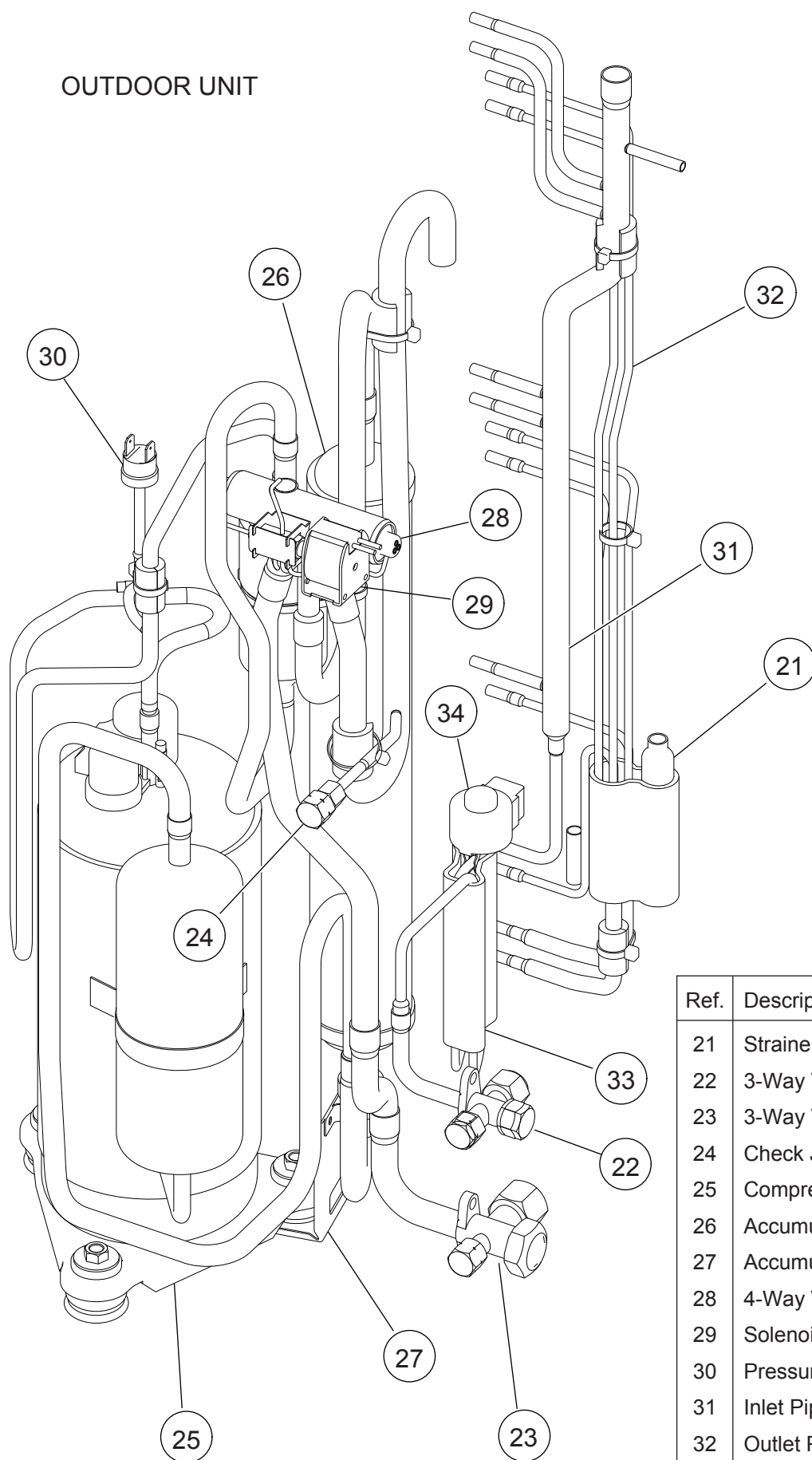
Ref.	Description	Part number	
1	Top Panel Sub Assy	9374417032	
2	Front Panel Sub Assy	9374414079	
3	Service Panel Sub Assy	9374415052	
4	Emblem Rear	9351355005	
5	Right Panel Sub Assy	9374416127	
6	Valve Cover	9374174010	
--	Protective Net	9375381011	
--	Drain Assy	9303029015	
--	Drain Cap	313166024302	

OUTDOOR UNIT



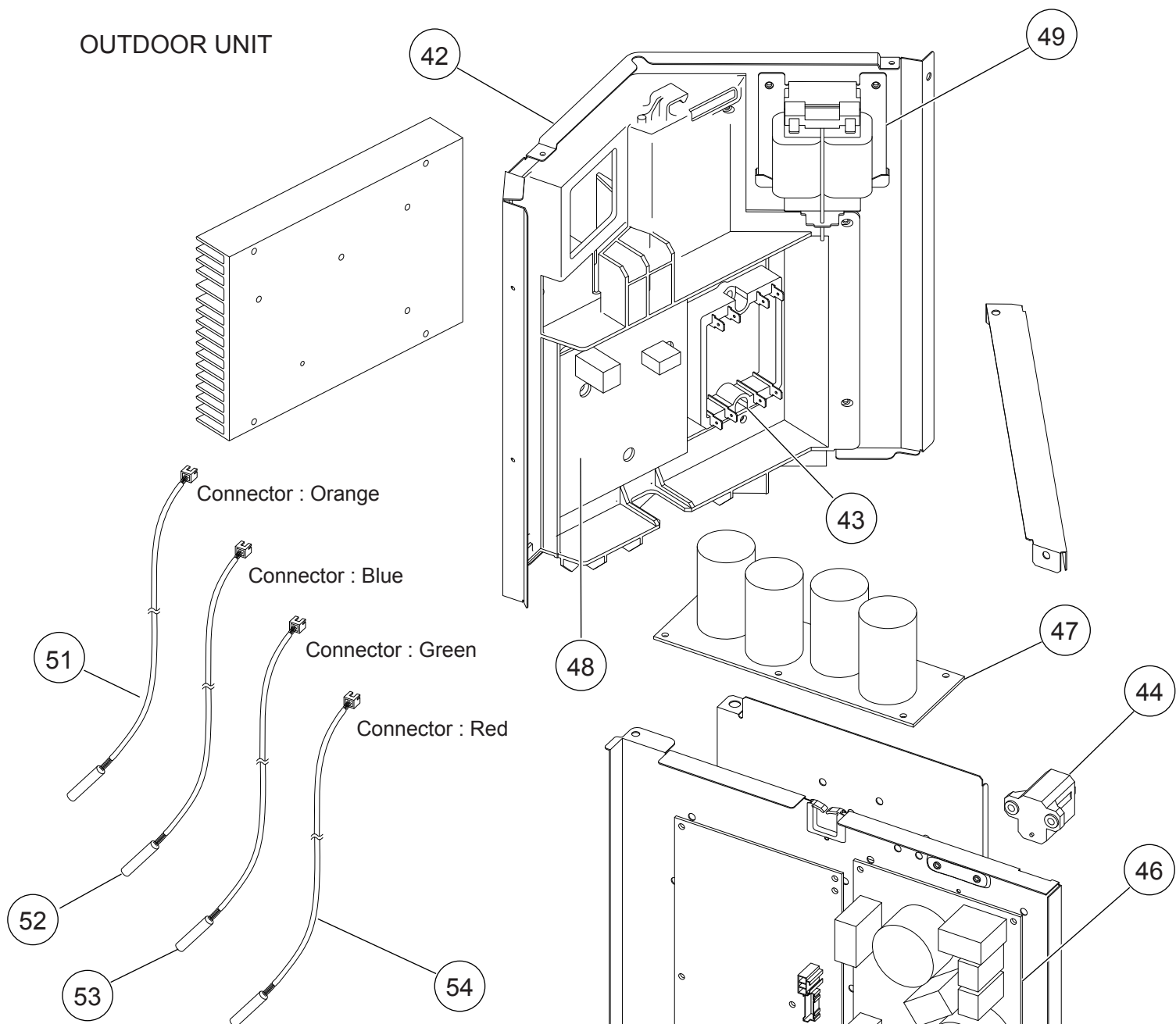
Ref.	Description	Part number	
11	Base Assy	9374166138	
12	Separate Wall Sub Assy	9374413188	
13	Condenser A Assy	9374433056	
14	Motor Bracket Sub Assy	9374418114	
15	Fan Motor	9602843015	
16	Propeller Fan Assy	9366378020	
17	Valve Plate	9374099030	
--	Compressor Cover A	9378851177	
--	Compressor Cover B	9378851010	
--	Compressor Cover C	9378851023	

OUTDOOR UNIT



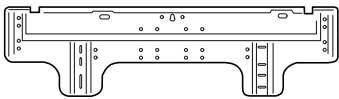
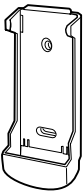
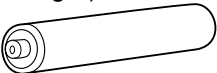
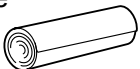
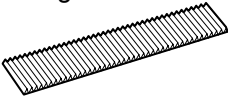
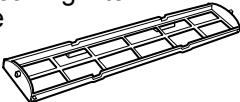
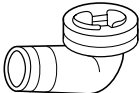
Ref.	Description	Part number
21	Strainer Assy	9372524015
22	3-Way Valve Sub Assy	9377958013
23	3-Way Valve Assy	9377959010
24	Check Joint Assy	9372802038
25	Compressor Sub Assy	9379545006
26	Accumulator	9385005006
27	Accumulator Support Assy	9355351003
28	4-Way Valve	9900164010
29	Solenoid	9970055034
30	Pressure Switch	9900186012
31	Inlet Pipe (Cond) A Assy	9373461067
32	Outlet Pipe (Cond) A Assy	9374266104
33	Expansion Valve Assy	9370947144
34	Expansion Valve Coil	9900057039
--	Muffler	9372369050

OUTDOOR UNIT



Ref.	Description	Part number
41	PCB Case Assy	9375316020
42	Inverter Case	9375314019
43	ACTPM	9703457012
44	Thermistor	9704265012
45	Controller PCB Assy	9707667233
46	Power Supply PCB Assy	9707128208
47	Capacitor PCB Assy	9707257045
48	Transistor PCB Assy	9707669060
49	Choke Coil	9900223014
50	Terminal	9900203023
51	Discharge Thermistor	9900461003
52	Outdoor Thermistor	9900463007
53	Compressor Thermistor	9900466015
54	Heat Exchanger Thermistor	9900462000

ACCESSORIES

Name and Shape	Part number
Wall hook bracket 	9315023018
Remote control 	9315027139
Remote control holder 	9305642045
Battery (penlight) 	0600185534
Cloth tape 	9310519004
Tapping screw (big) 	0700076046
Tapping screw (small) 	0700019036
Air cleaning filter 	9312153060 9311925071
Air cleaning filter frame 	9368568009
Drain pipe (Outdoor unit) 	9301102000
Drain cap (Outdoor unit) 	313166024302
Insulation (seal) 	9374756018

