



SPLIT TYPE
ROOM AIR CONDITIONER
WALL MOUNTED TYPE

SERVICE MANUAL



Indoor unit	Outdoor unit
ASHA14LGC	AOHR14LGC

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SPECIFICATIONS

ELECTRICAL DATA

TYPE		Cool & heat inverter
INDOOR UNIT		ASHA14LGC
OUTDOOR UNIT		AOHR14LGC
COOLING CAPACITY		4.00 kW
HEATING CAPACITY		5.00 kW
POWER SOURCE		230 V
FREQUENCY		50 Hz
RUNNING CURRENT	Cooling	4.9 A
	Heating	5.7 A
INPUT WATTS	Cooling	1.080 kW
	Heating	1.295 kW
E.E.R.	Cooling	3.70 kW/kW
COP	Heating	3.86 kW/kW
MOISTURE REMOVAL		2.1 L/h
AIR CIRCULATION HIGH	Cooling	800 m ³ /h
	Heating	800 m ³ /h
MAXIMUM CURRENT	Cooling	9.0 A
	Heating	10.5 A

DIMENSIONS

INDOOR UNIT	H x W x D	260 x 790 x 198 mm
OUTDOOR UNIT	H x W x D	620 x 790 x 298 mm

WEIGHT

INDOOR UNIT	Gross / Net	10 kg / 7.5 kg
OUTDOOR UNIT	Gross / Net	44 kg / 40 kg

COMPRESSOR AND REFRIGERANT

COMPRESSOR TYPE		Hermetic type, 4 pole, 3 phase, DC inverter motor, Rotary
DISCRIMINATION		DA89X1C-20FZ
WEIGHT (with oil)		9.0 kg
STANDARD REFRIGERANT		1,000 g
REFRIGERANT TYPE		R410A
FULL CHARGE	Pipe Length 15 m	1,000 g
	20 m	1,100 g
ADDITIONAL REFRIGERANT		20 g/m
MAXIMUM PIPING HEIGHT		15m

FAN MOTOR

POWER SOURCE		230 V
INDOOR UNIT Cooling	High speed	1,500 r.p.m.
	Middle speed	1,300 r.p.m.
	Low speed	1,020 r.p.m.
	Quiet	760 r.p.m.
INDOOR UNIT Heating	High speed	1,500 r.p.m.
	Middle speed	1,300 r.p.m.
	Low speed	1,080 r.p.m.
	Quiet	840 r.p.m.
OUTDOOR UNIT Cooling		870 r.p.m.
OUTDOOR UNIT Heating		780 r.p.m.

NOISE LEVEL

INDOOR UNIT Cooling	High speed	44 dB
	Middle speed	40 dB
	Low speed	33 dB
	Quiet	25 dB
INDOOR UNIT Heating	High speed	44 dB
	Middle speed	40 dB
	Low speed	34 dB
	Quiet	27 dB
OUTDOOR UNIT Cooling		48 dB
OUTDOOR UNIT Heating		49 dB

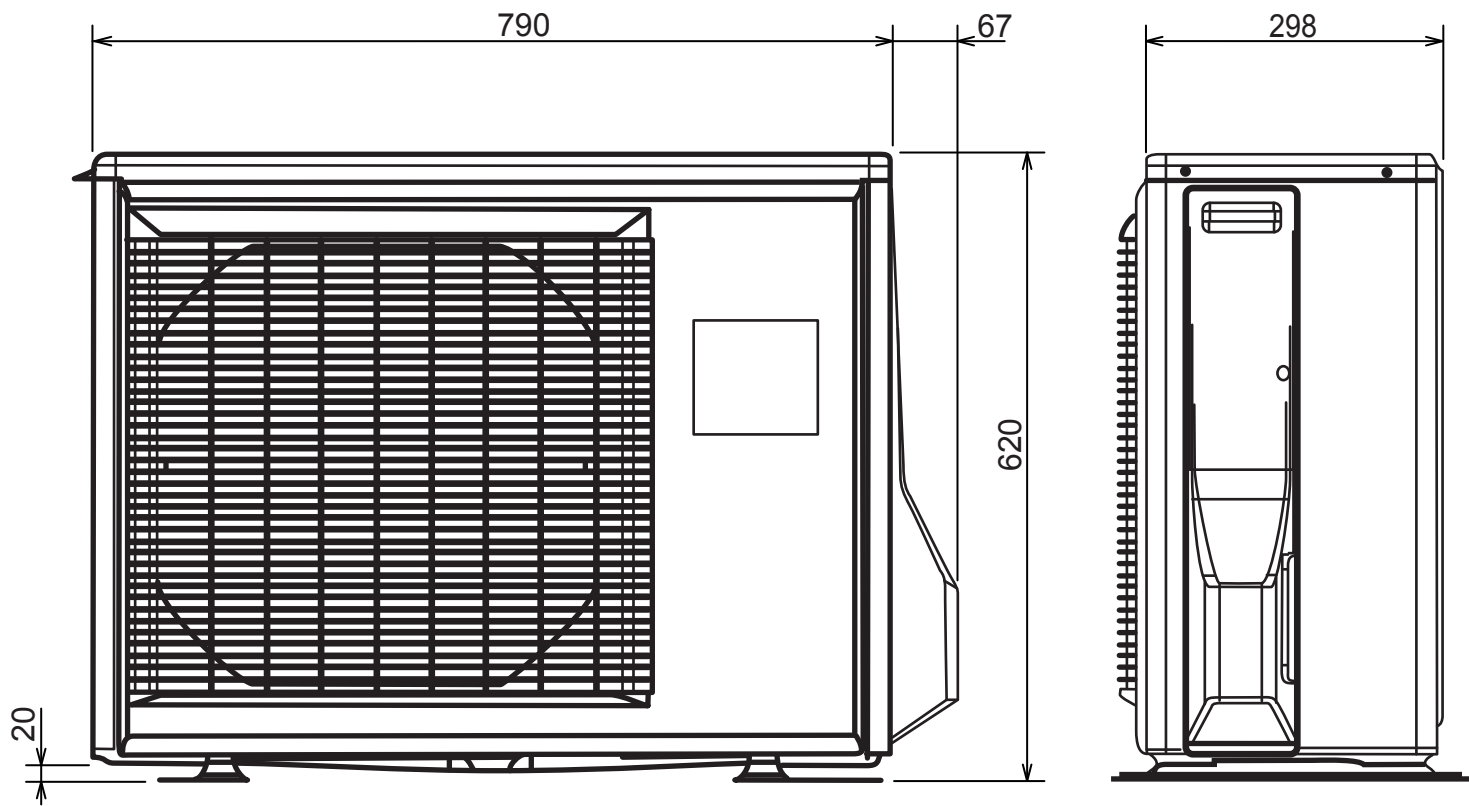
OUTLINE AND DIMENSIONS

Unit : mm

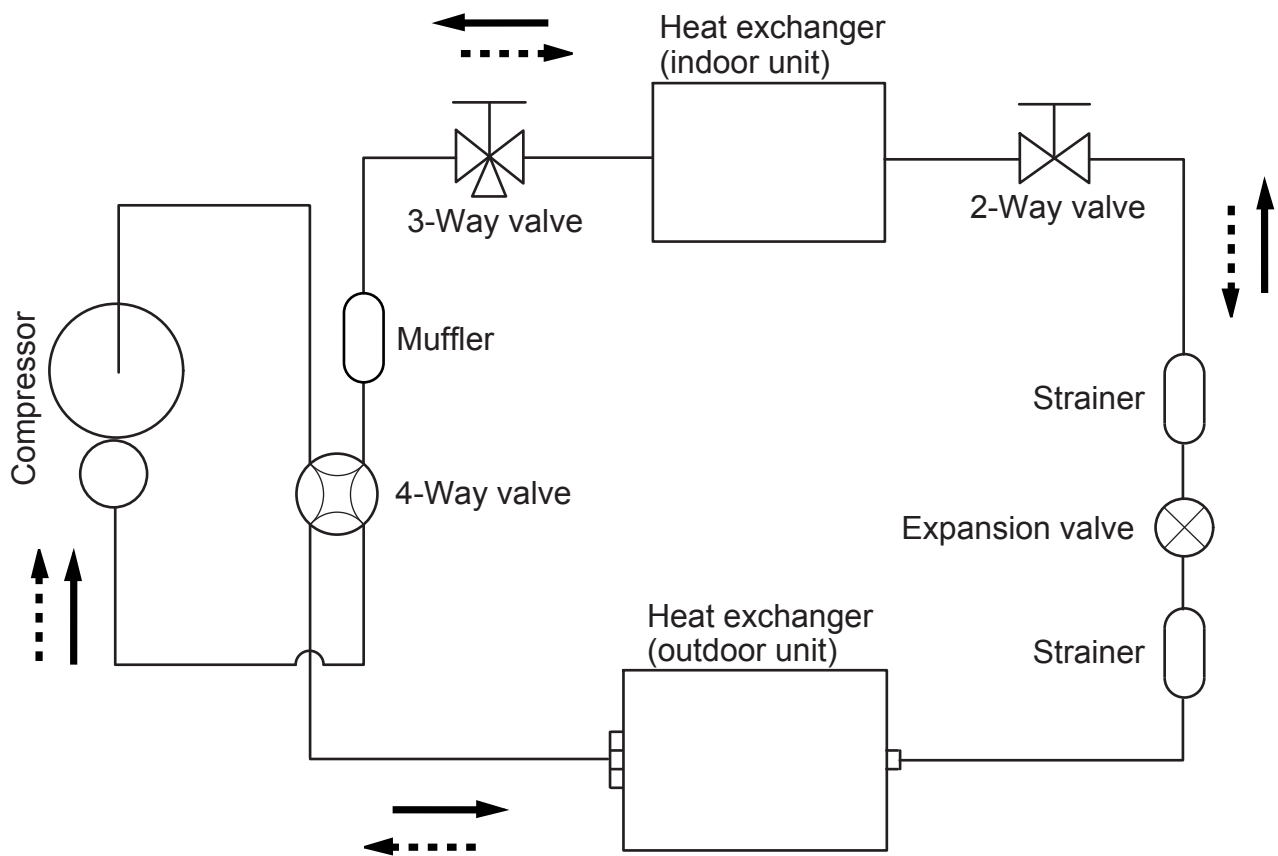
INDOOR UNIT



OUTDOOR UNIT



REFRIGERANT SYSTEM DIAGRAM



Refrigerant direction

————→ Cooling

-----→ Heating

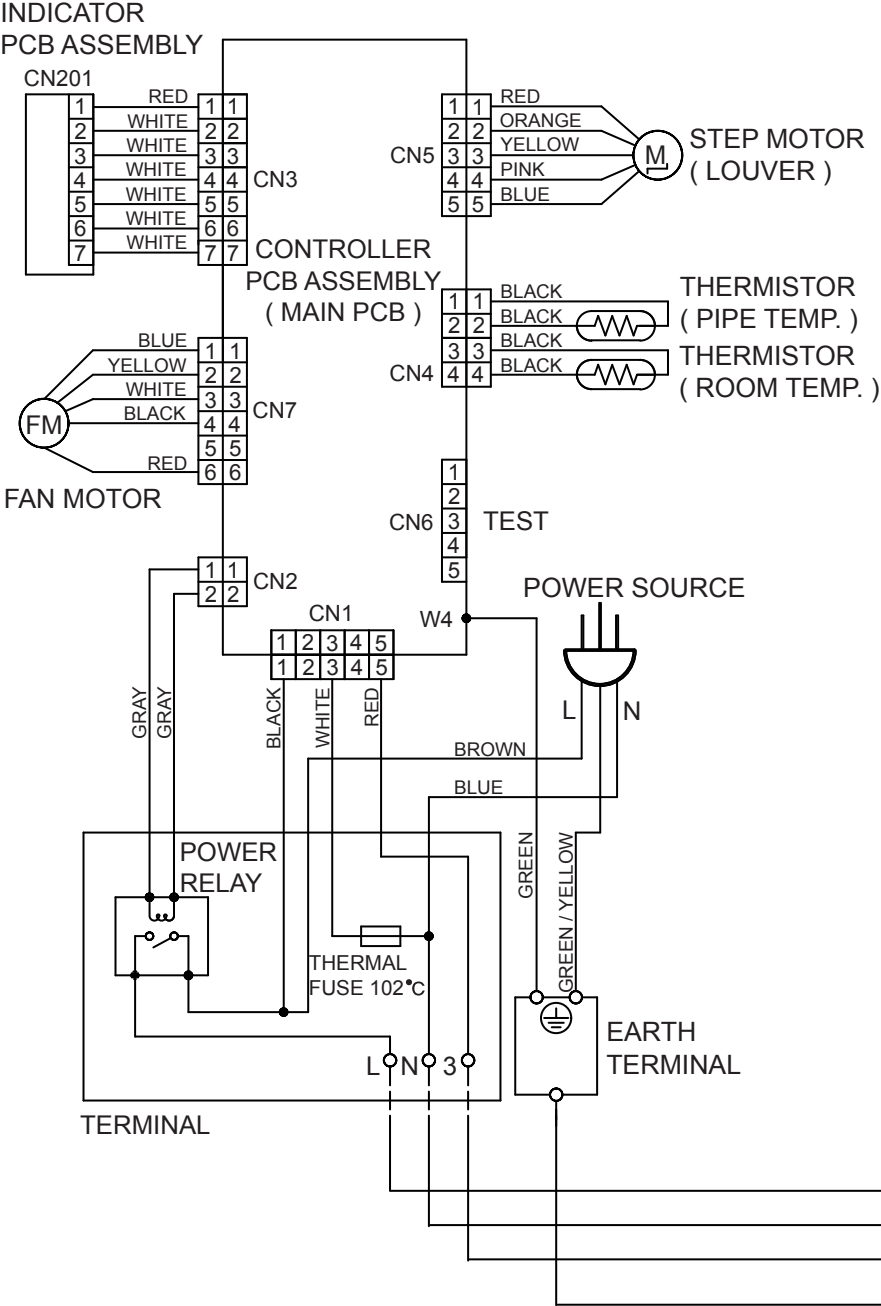
Refrigerant pipe diameter

Liquid : 1/4" (6.35 mm)

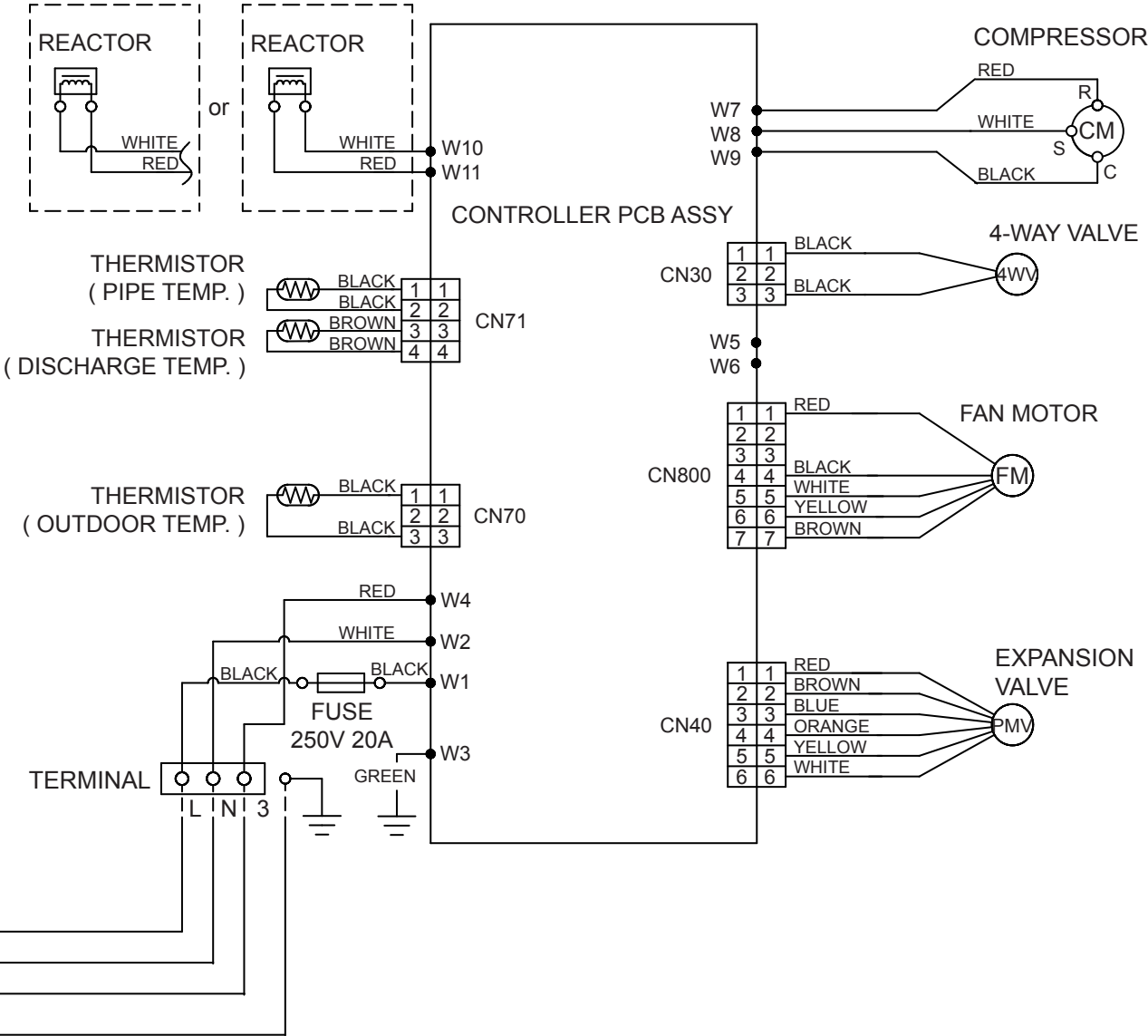
Gas : 1/2" (12.7 mm)

CIRCUIT DIAGRAM

INDOOR UNIT

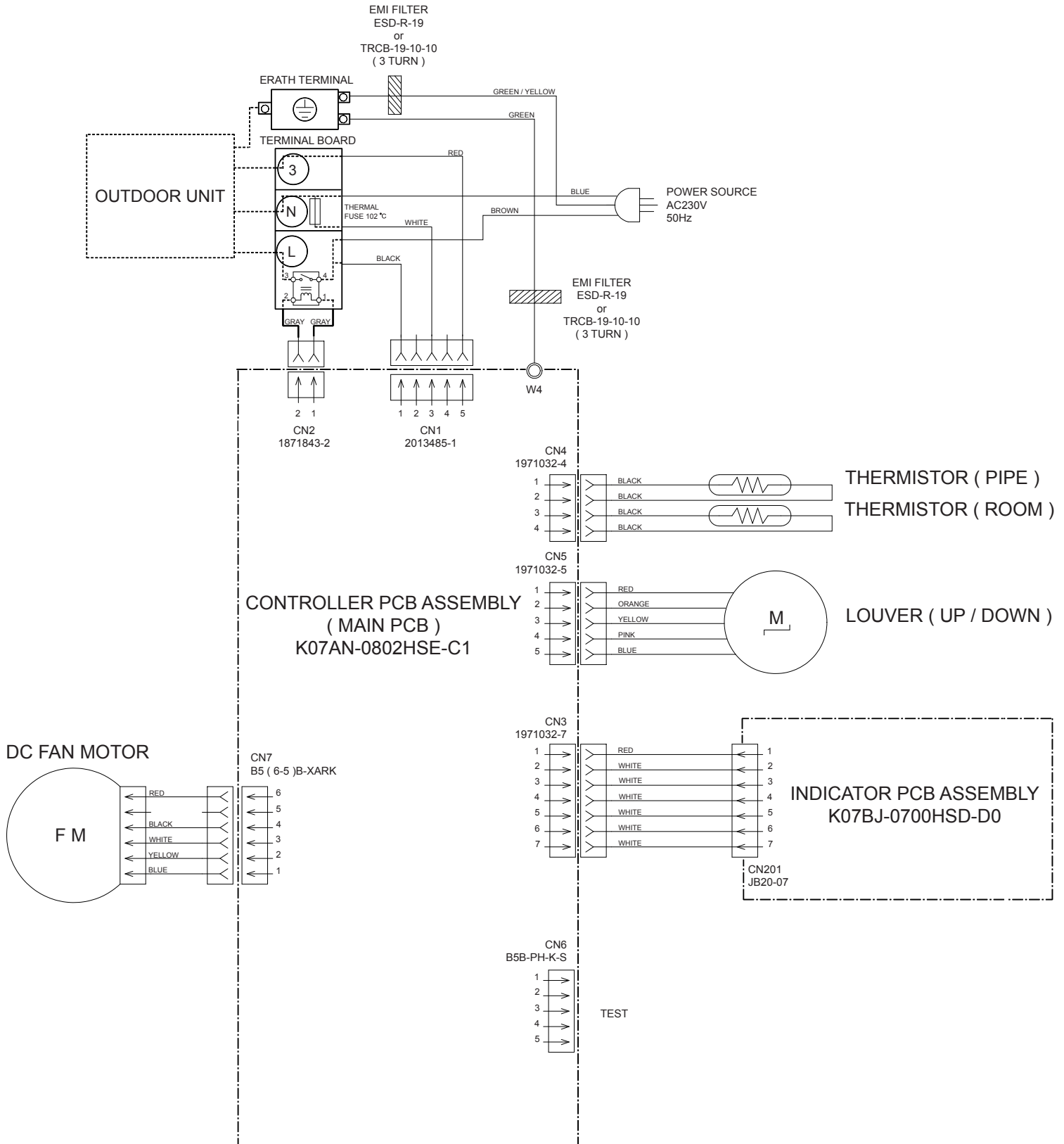


OUTDOOR UNIT

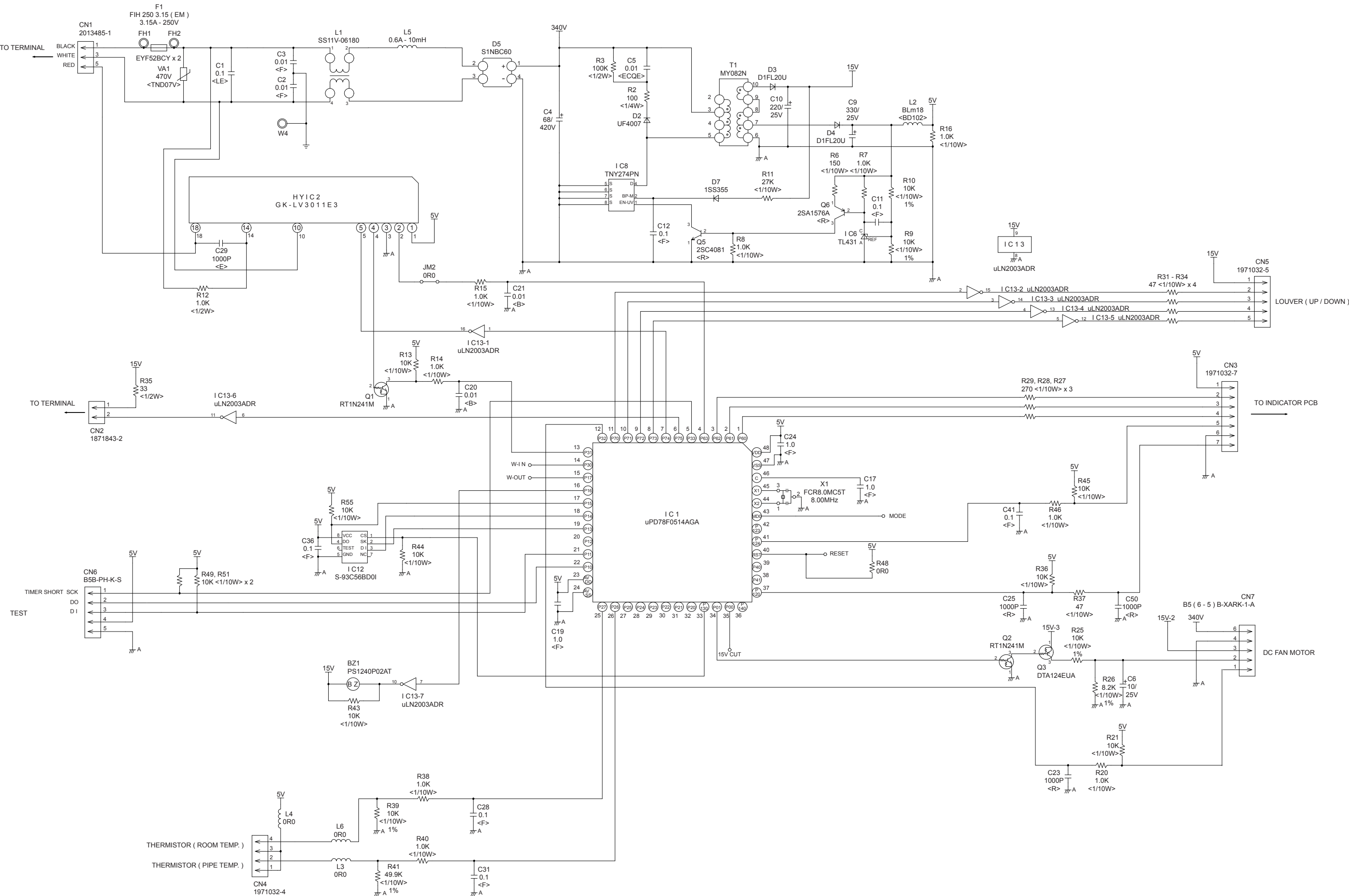


INDOOR PCB CIRCUIT DIAGRAM

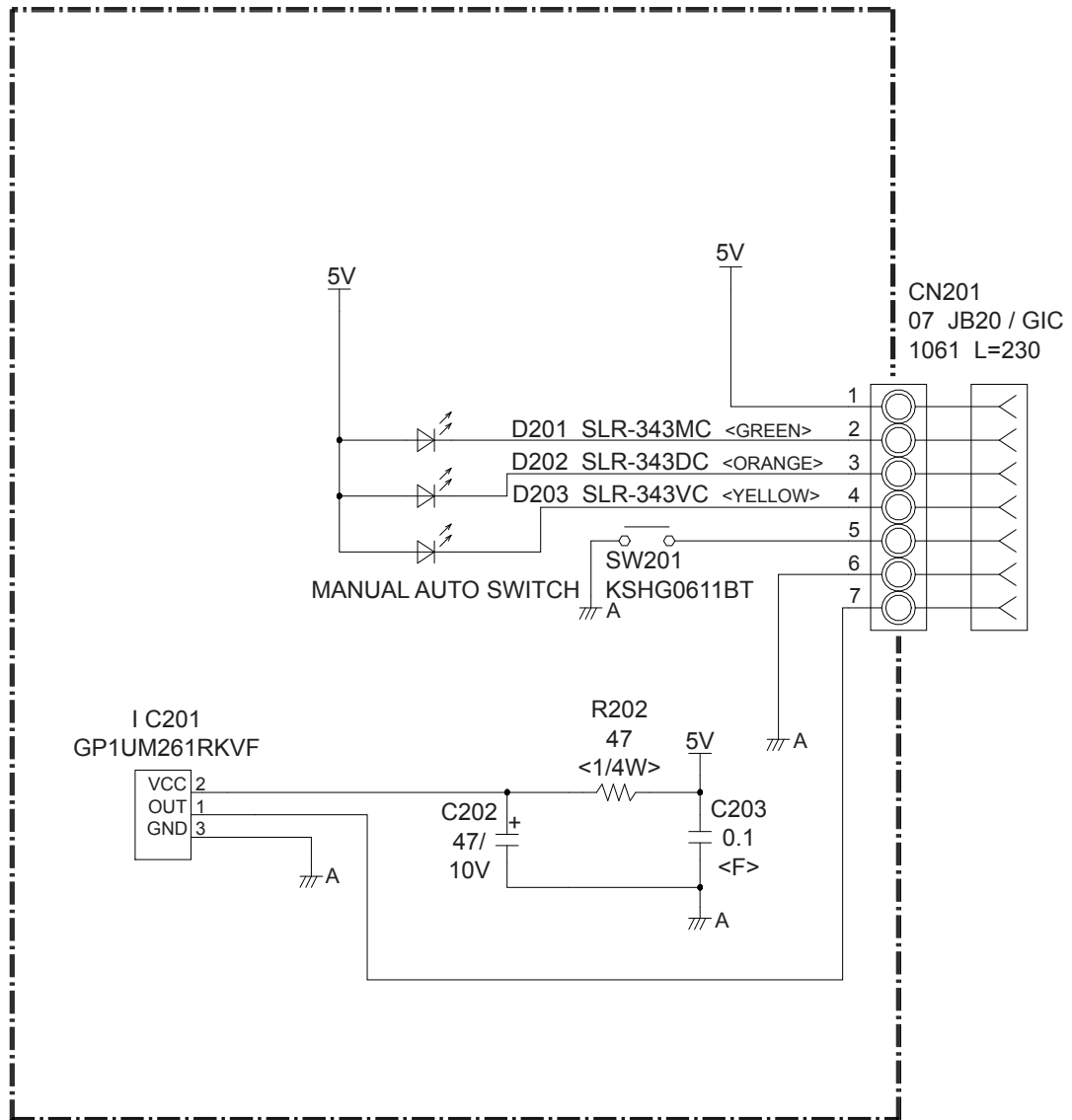
CONTROL UNIT
EZ-0080HSE



INDOOR UNIT
CONTROLLER PCB ASSEMBLY (MAIN PCB)
K07AN-0802HSE-C1

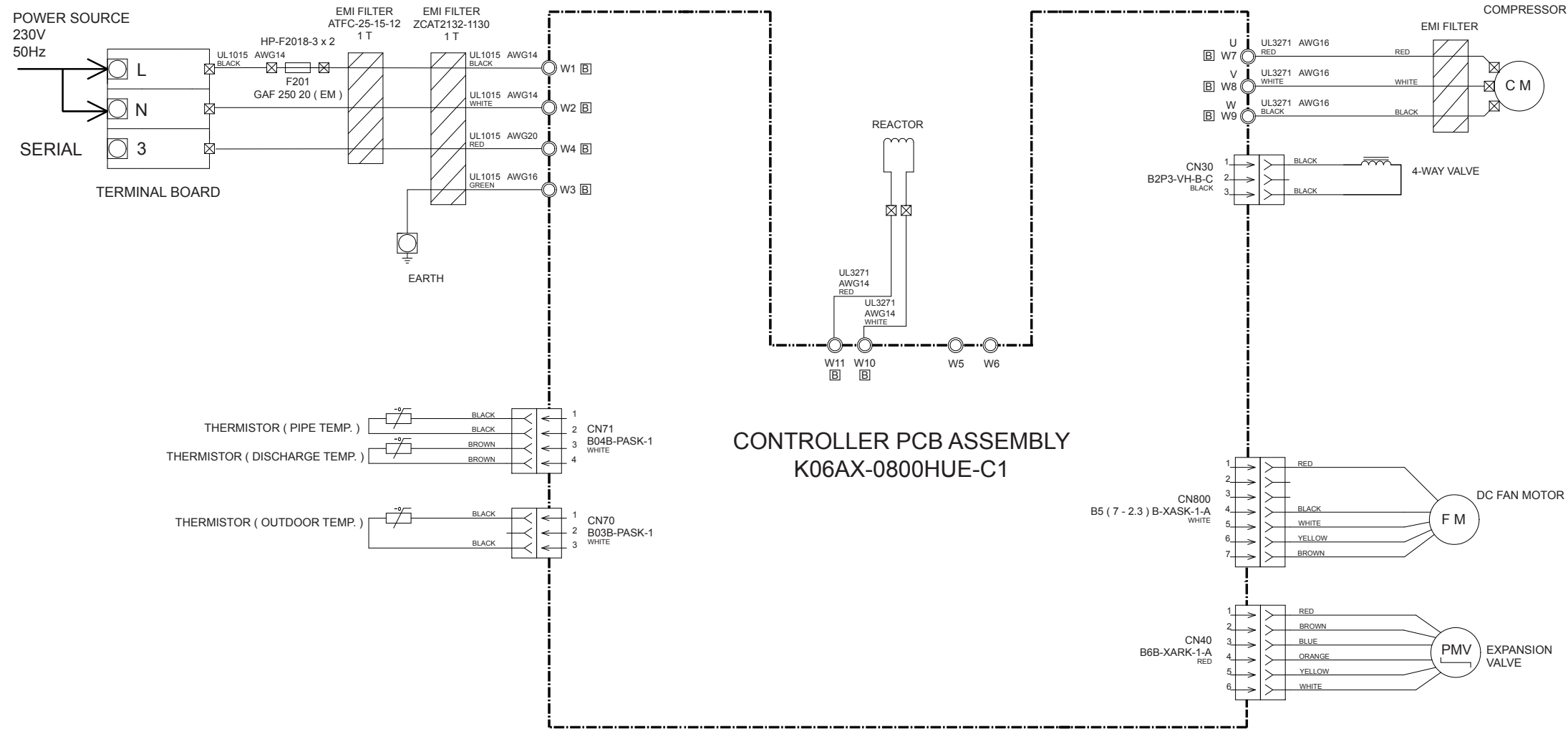


INDOOR UNIT
INDICATOR PCB ASSEMBLY
K07BJ-0700HSD-D0

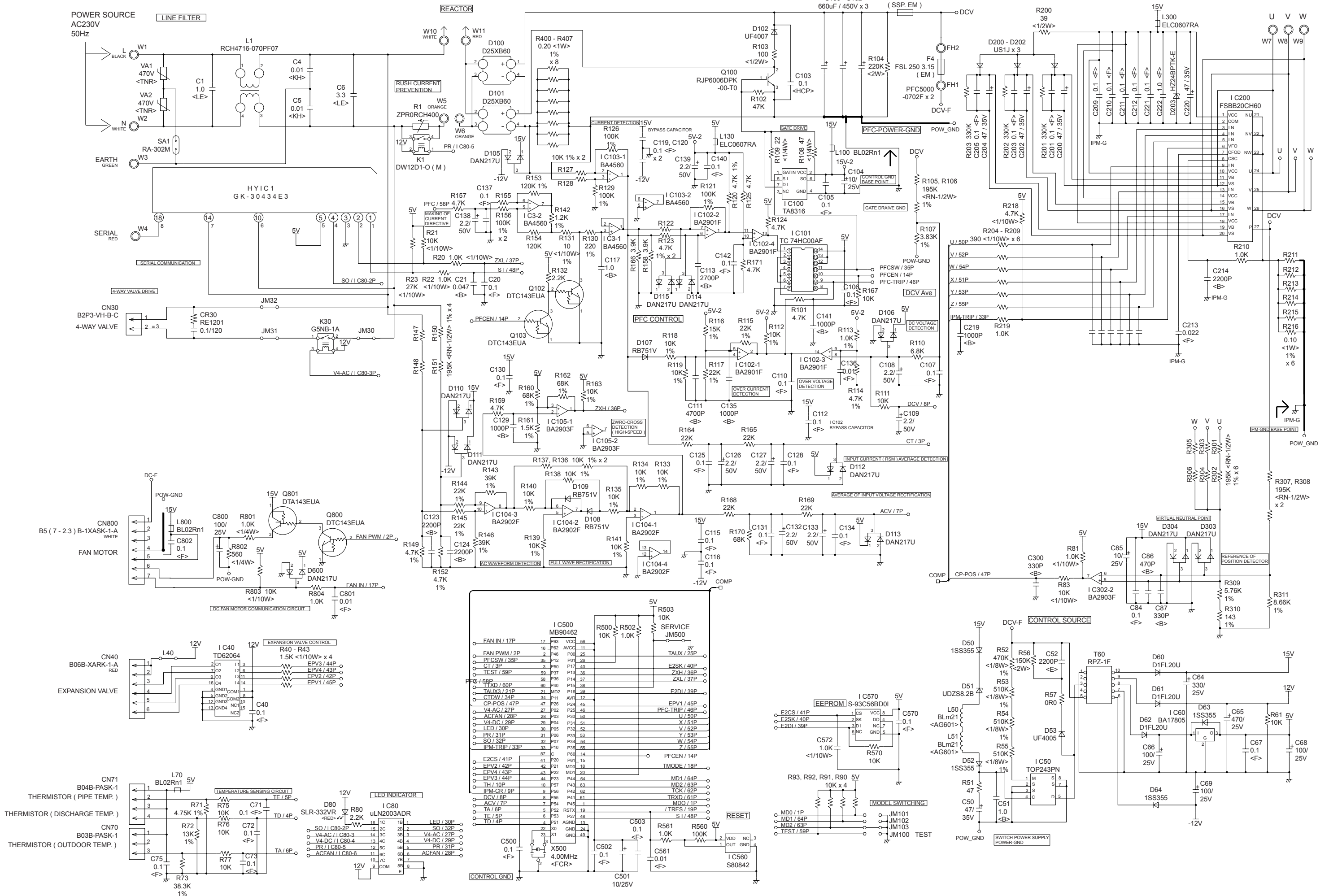


OUTDOOR PCB CIRCUIT DIAGRAM

INVERTER ASSEMBLY EZ-0081HUE



OUTDOOR UNIT
CONTROLLER PCB ASSEMBLY (MAIN PCB)
K06AX-0800HUE-C1

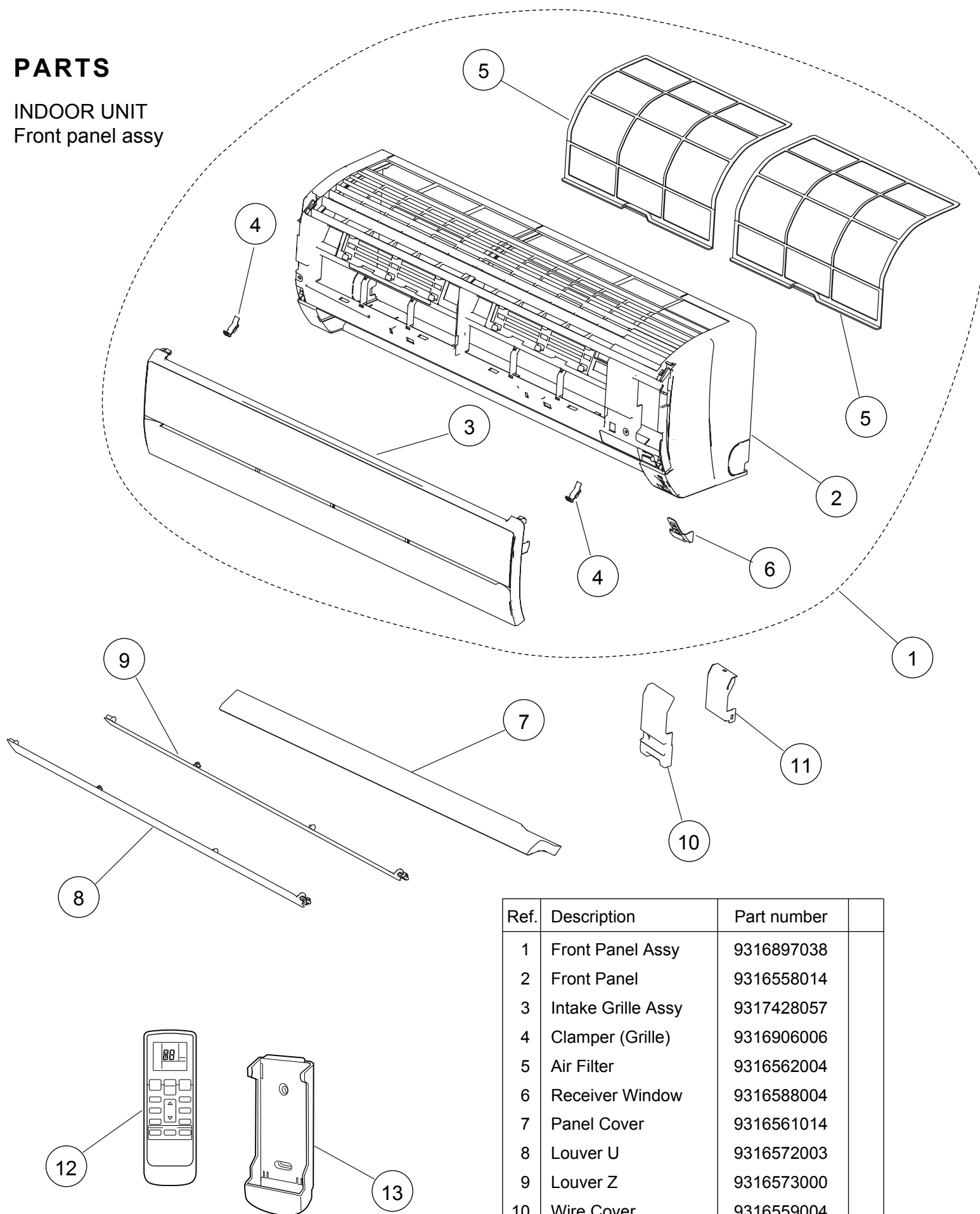


ERROR CONTENTS

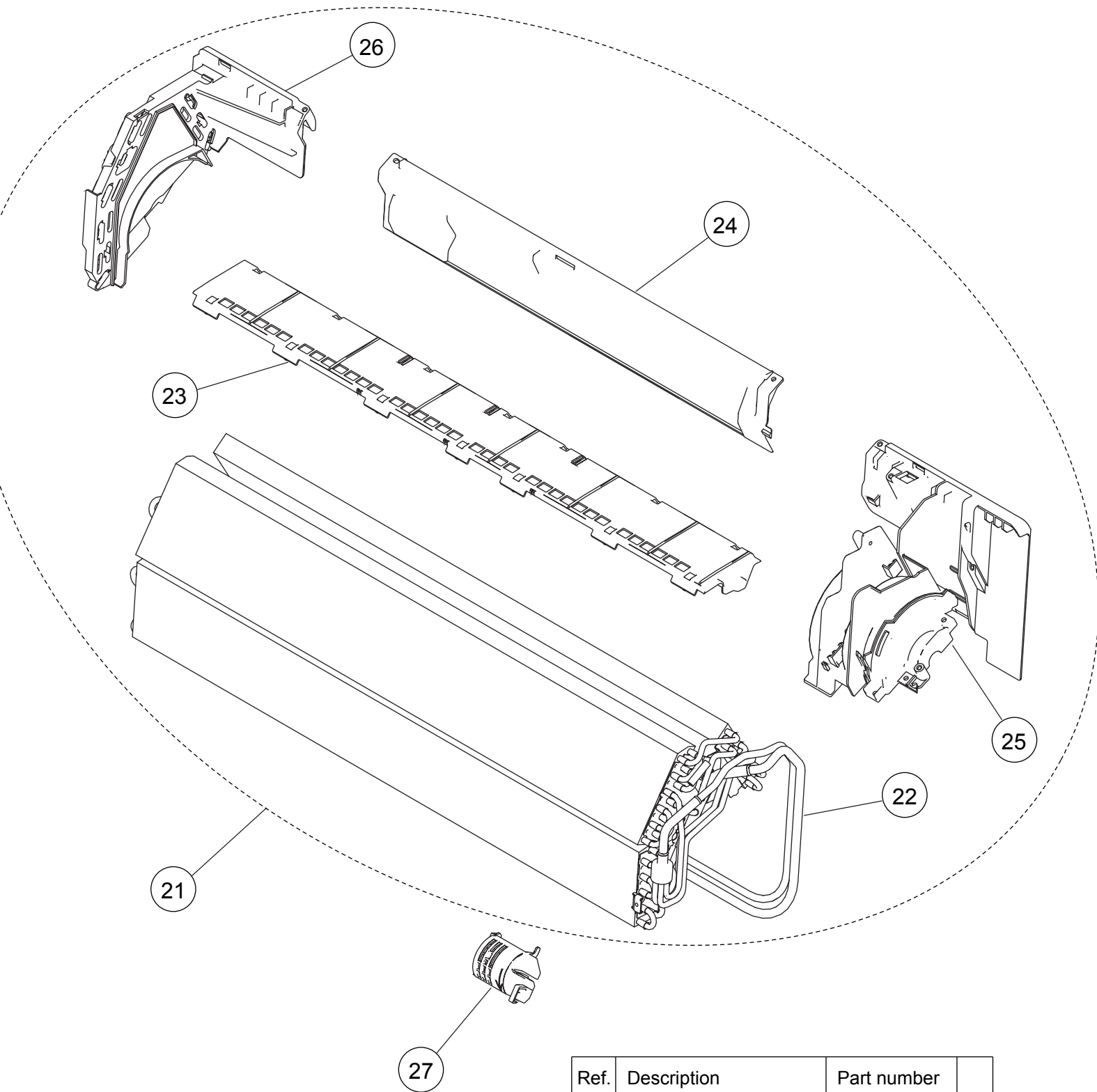
Error	Indoor unit LED			Wired remote control	Error
	Operation LED	Timer LED	Coil dry LED		
Serial signal error	Off	2 flash	off	01	Serial signal (reverse) error, at operation start up
		3 flash	off	01	Serial signal (reverse) error, during operation
		4 flash	off	13	Serial signal (forward) error, at operation start up
		5 flash	off	13	Serial signal (forward) error, during operation
		8 flash	off	00	Wired remote control error
Indoor unit thermistor error	2 flash	2 flash	off	02	Indoor air thermistor error
		3 flash	off	04	Heat exchanger middle thermistor error
Outdoor unit thermistor error	3 flash	2 flash	off	0C	Discharge pipe thermistor error
		3 flash	off	06	Heat exchanger thermistor error
		4 flash	off	0A	Outdoor air thermistor error
Indoor unit control error	4 flash	2 flash	off	20	Manual auto button welded
		3 flash	off	-	Main relay welded
Outdoor unit control error	5 flash	2 flash	off	17	Current trip error
		3 flash	off	18	CT abnormal
		5 flash	off	1A	Compressor location detection error
		6 flash	off	1B	Outdoor unit fan drive system abnormal
Indoor fan motor error	6 flash	2 flash	off	12	Abnormal lock (upper fan motor)
		3 flash	off	12	Abnormal rotation (upper fan motor)
Refrigerant cycle error	7 flash	2 flash	off	0F	Discharge temperature abnormal
		3 flash	off	24	Cooling high pressure abnormal rise
		4 flash	off	2C ?	DC 4-way valve and expansion valve abnormal
Optional function error	8 flash	4 flash	off	25	PFC circuit error
Model information error	0.1 sec on/off	0.1 sec on/off	0.1 sec on/off	11	Model information error

PARTS

INDOOR UNIT Front panel assy

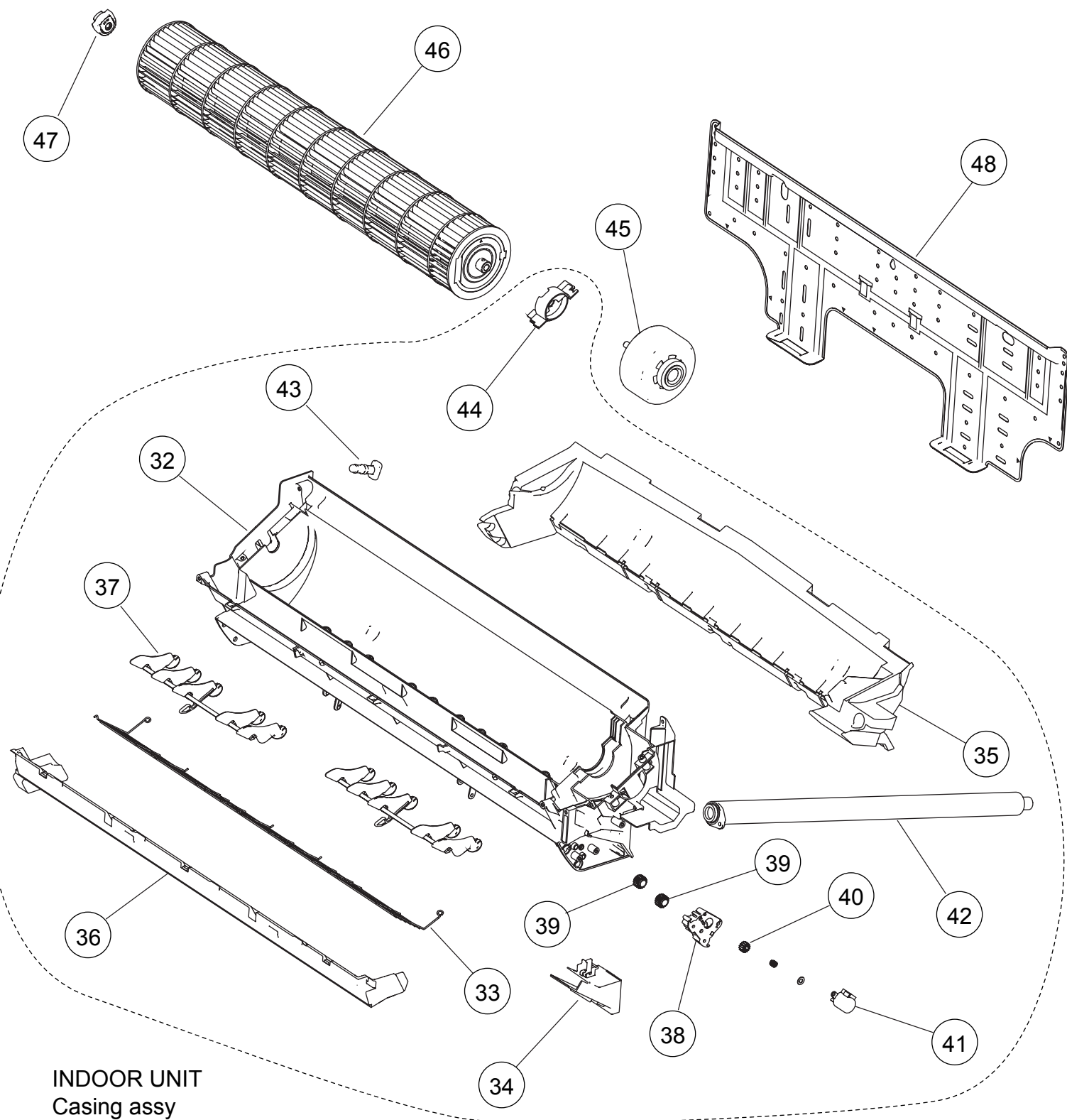


Ref.	Description	Part number	
1	Front Panel Assy	9316897038	
2	Front Panel	9316558014	
3	Intake Grille Assy	9317428057	
4	Clamper (Grille)	9316906006	
5	Air Filter	9316562004	
6	Receiver Window	9316588004	
7	Panel Cover	9316561014	
8	Louver U	9316572003	
9	Louver Z	9316573000	
10	Wire Cover	9316559004	
11	Wire Shield	9316584006	
12	Remote Control	9317475006	
13	Remote Control Holder	9305642045	
--	Air Clean Filter Assy	9317250009	



**INDOOR UNIT
Evaporator**

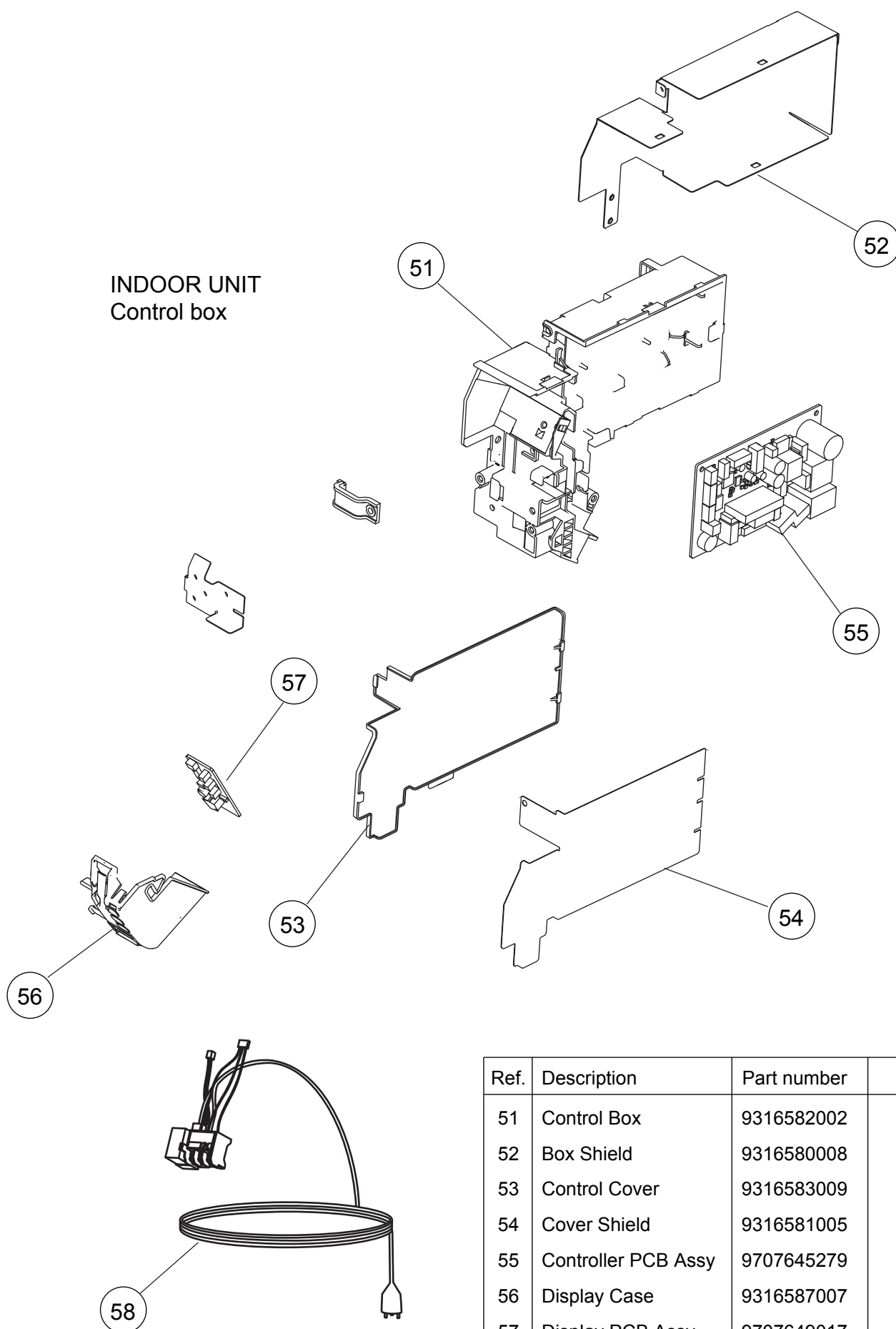
Ref.	Description	Part number	
21	Evaporator Total Assy	9316893047	
22	Joint Pipe Assy	9317468008	
23	Filter Guide	9316578005	
24	Rear Bracket	9316566019	
25	Evaporator Holder R	9316565005	
26	Evaporator Holder L	9316564008	
27	Room Thermistor Holder	9316895003	



Ref.	Description	Part number
31	Casing Assy	9316892026
32	Casing	9316563001
33	Fan Guard	9317182003
34	Cable Guide	9316567009
35	Casing Cover B	9316569003
36	Casing Cover F	9316570009
37	R and L Louver B	9316961005
38	Louver Gear Holder	9316575004
39	Louver Gear	9316574007

Ref.	Description	Part number
40	Gear A	9309994003
41	Motor Step	9900139117
42	Drain Hose Assy	9316904002
43	Drain Cap	9316177017
44	Motor Cover	9316568006
45	Fan Motor	9602704002
46	Crossflow Fan Assy	9316830004
47	Shaft Holder C	9306628017
48	Bracket Panel	9316590007

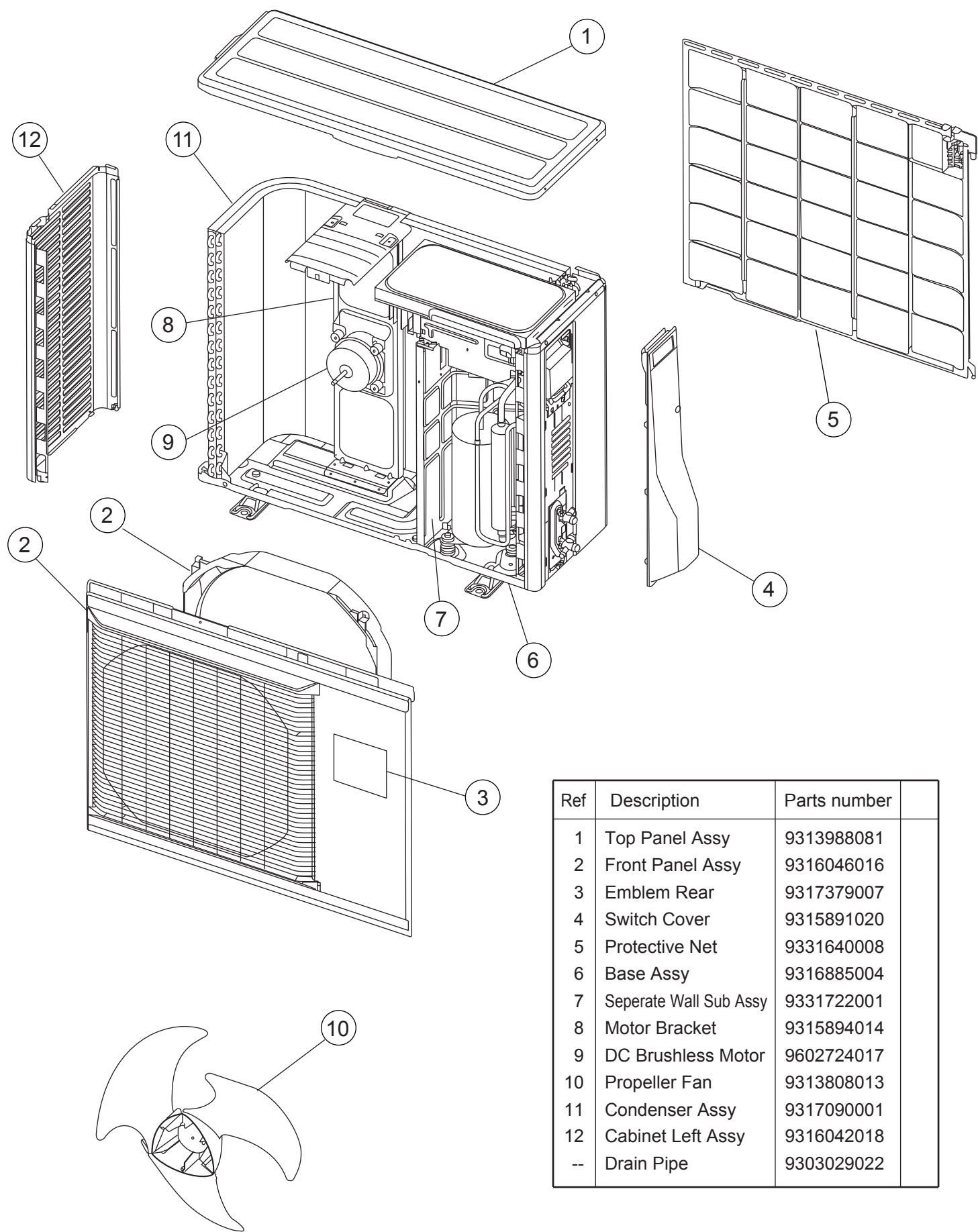
INDOOR UNIT
Control box



Ref.	Description	Part number	
51	Control Box	9316582002	
52	Box Shield	9316580008	
53	Control Cover	9316583009	
54	Cover Shield	9316581005	
55	Controller PCB Assy	9707645279	
56	Display Case	9316587007	
57	Display PCB Assy	9707649017	
58	Power Cord Assy	9900456009	
--	Earth Terminal	9316586000	
--	Thermistor Assy	9900459017	

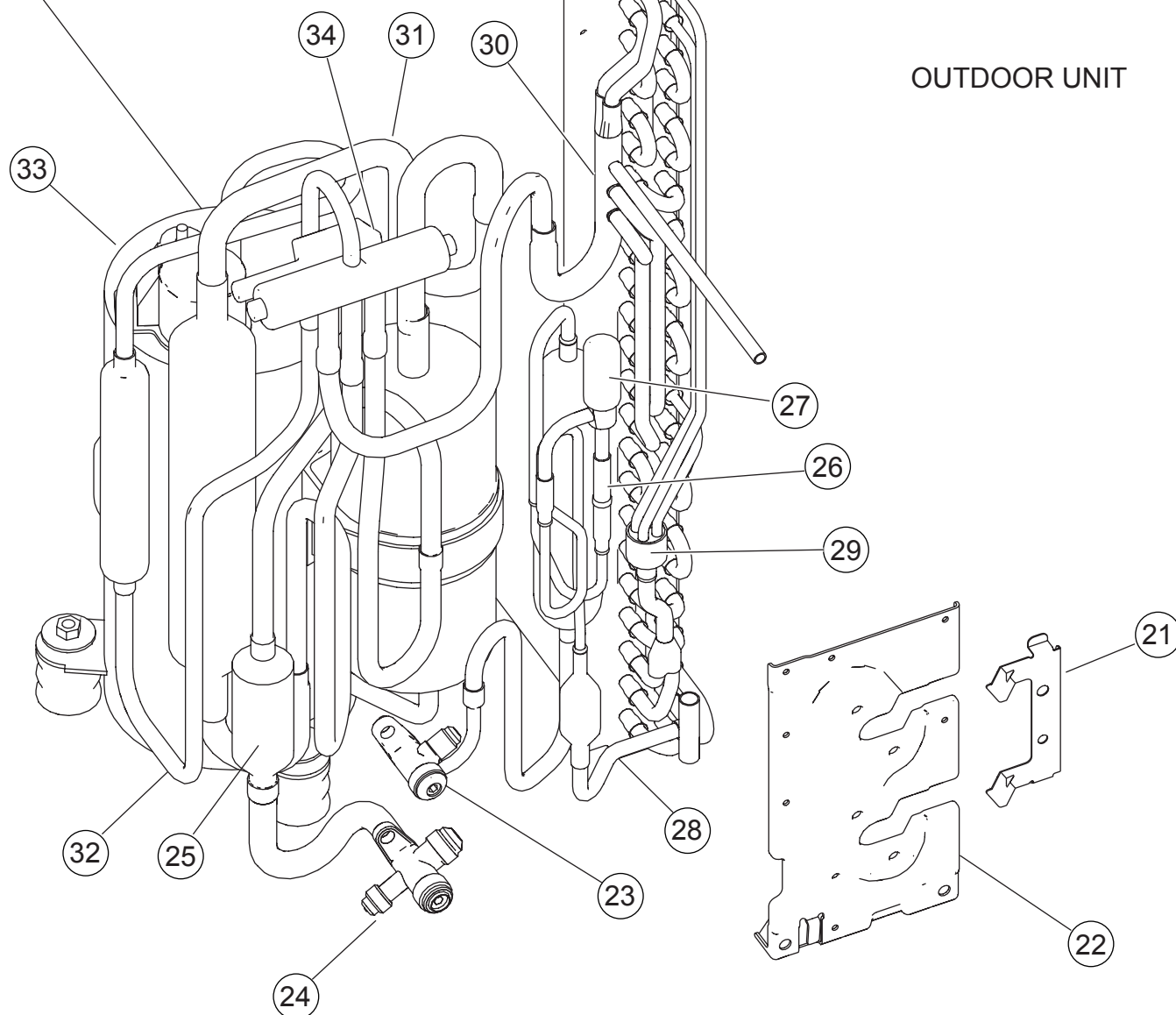
PARTS

OUTDOOR UNIT



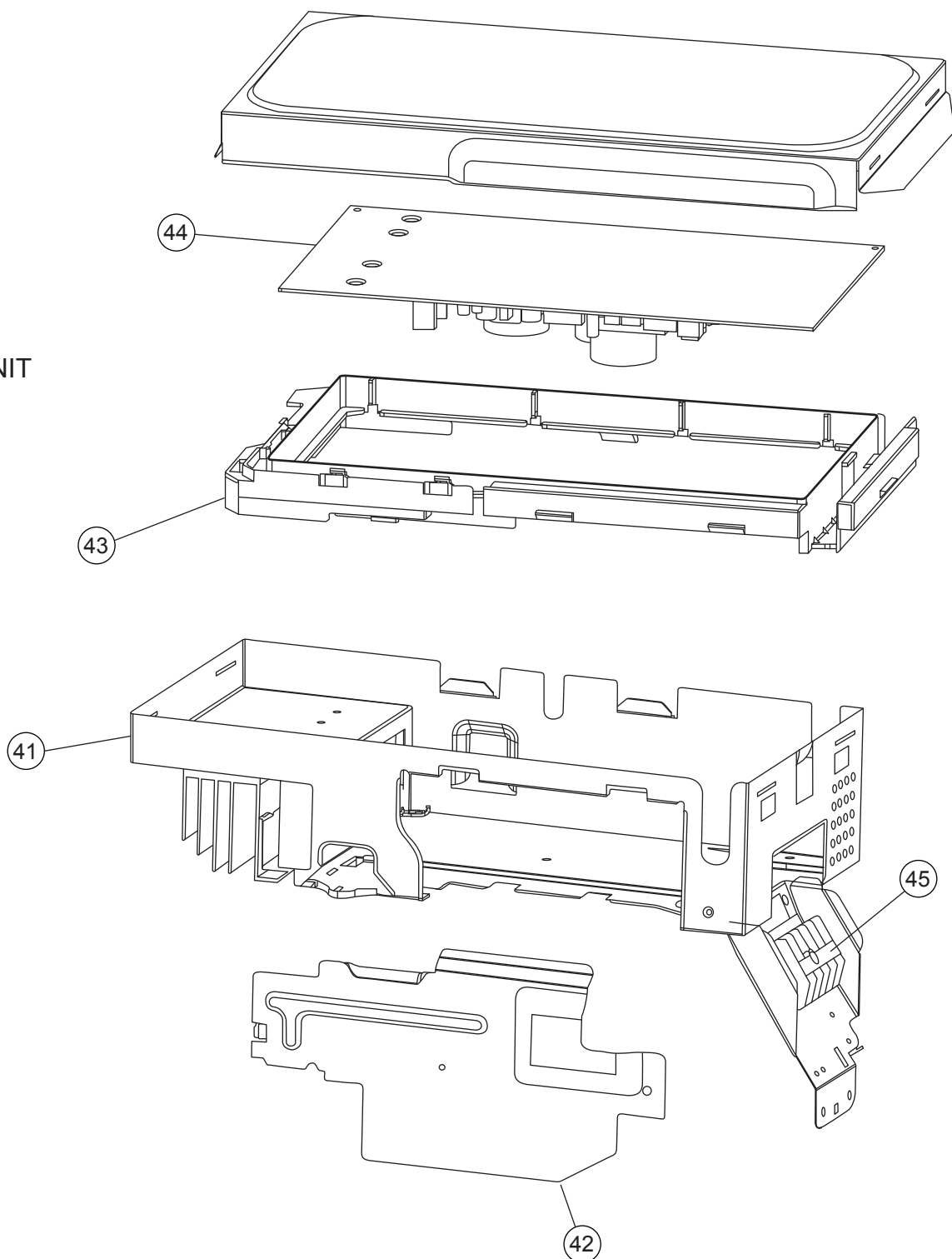
Ref	Description	Parts number	
1	Top Panel Assy	9313988081	
2	Front Panel Assy	9316046016	
3	Emblem Rear	9317379007	
4	Switch Cover	9315891020	
5	Protective Net	9331640008	
6	Base Assy	9316885004	
7	Seperate Wall Sub Assy	9331722001	
8	Motor Bracket	9315894014	
9	DC Brushless Motor	9602724017	
10	Propeller Fan	9313808013	
11	Condenser Assy	9317090001	
12	Cabinet Left Assy	9316042018	
--	Drain Pipe	9303029022	

OUTDOOR UNIT



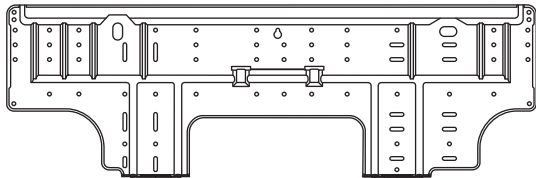
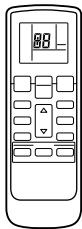
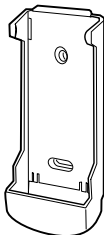
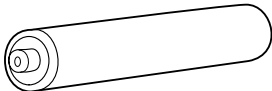
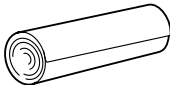
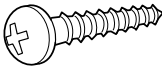
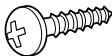
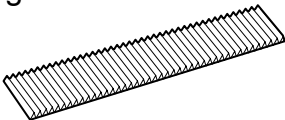
Ref	Description	Parts number	
21	Bracket Valve Cover	9331683005	
22	Bracket Valve	9331649001	
23	2-Way Valve Assy	9314554018	
24	3-Way Valve Assy	9316388017	
25	Muffler (3-Way Valve)	9316276017	
26	Pulse Motor Valve Assy	9315587015	
27	Expansion Valve Coil	9900057039	
28	Pipe (Cond Ex) Assy	9317105002	
29	Pipe (Cond Sepa) Assy	9317097000	
30	Entrance Pipe Assy	9317091008	
31	Discharge Pipe Assy	9331772006	
32	Suction Pipe Assy	9331775007	
33	Compressor Assy	9313279011	
34	4-Way Valve	9900162016	
--	Solenoid	9970055010	
--	Strainer A (in PMV Assy)	9313197018	
--	Reactor Assy	9900354022	

OUTDOOR UNIT



Ref	Description	Parts number	
41	Inverter Case	9313072063	
42	Inverter Case Cover	9314507038	
43	PCB Holder	9313074029	
44	Controller PCB Assy	9707427189	
45	Terminal	9306489168	
--	Bracket (Terminal)	9315233042	
--	Terminal Cover	9331704007	
--	Thermistor Assy	9900148041	
--	Outdoor Thermistor	9900210038	

ACCESSORIES

Name and Shape	Part number
Wall hook bracket 	9316590007
Remote control 	9316397026
Remote control holder 	9305642045
Battery (penlight) 	0600185527
Cloth tape 	9310519004
Tapping screw (big) (ϕ 4 x 25) 	0700076046
Tapping screw (small) (ϕ 3 x 12) 	0700019036
Air cleaning filter 	9311925088 9312153077

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