

SPLIT TYPE
ROOM AIR CONDITIONER
WALL MOUNTED TYPE

SERVICE MANUAL



Indoor unit	Outdoor unit
ASYG24LFCA	AOYG24LFL

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SPECIFICATIONS

ELECTRICAL DATA

TYPE		Cool & heat inverter
INDOOR UNIT		ASYG24LFCA
OUTDOOR UNIT		AOYG24LFL
COOLING CAPACITY		7.10 kW
HEATING CAPACITY		8.00 kW
POWER SOURCE		230 V
FREQUENCY		50 Hz
RUNNING CURRENT	COOLING	9.7 A
	HEATING	9.7 A
INPUT WATTS	COOLING	2.20 kW
	HEATING	2.21 kW
E.E.R.	COOLING	3.23 kW/kW
COP	HEATING	3.61 kW/kW
MOISTURE REMOVAL		2.7 L/hr
AIR CIRCULATION HIGH		1,100 m ³ /hr
MAXIMUM CURRENT	COOLING	13.5 A
	HEATING	18.5 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	860 r.p.m.
INDOOR UNIT (Heat)	High	1,480 r.p.m.
	Medium	1,220 r.p.m.
	Low	1,020 r.p.m.
	Quiet	860 r.p.m.
OUTDOOR UNIT (Cool)		1,050 r.p.m.
OUTDOOR UNIT (Heat)		1,100 r.p.m.

NOISE LEVEL

INDOOR UNIT (Cool)	High	47 dB
	Medium	42 dB
	Low	37 dB
	Quiet	32 dB
INDOOR UNIT (Heat)	High	48 dB
	Medium	42 dB
	Low	37 dB
	Quiet	32 dB
OUTDOOR UNIT (Cool)		53 dB
OUTDOOR UNIT (Heat)		56 dB

COMPRESSOR AND REFRIGERANT

TYPE		Hermetic type, 4 pole, Rotary, DC inverter motor
DISCRIMINATION		808-217-80(B)
WEIGHT WITH OIL		10.2 kg
PRECHARGED REFRIGERANT		1,650 g
REFRIGERANT TYPE		R410A
FULL CHARGE	Pipe length 15 m	1,650 g
	30 m	1,950 g
ADDITIONAL CHARGE		20 g/m
MAXIMUM HEIGHT DIFFERENCE		20 m

DIMENSIONS

INDOOR UNIT	H x W x D	320 x 998 x 238 mm
OUTDOOR UNIT	H x W x D	578 x 790 x 315 mm

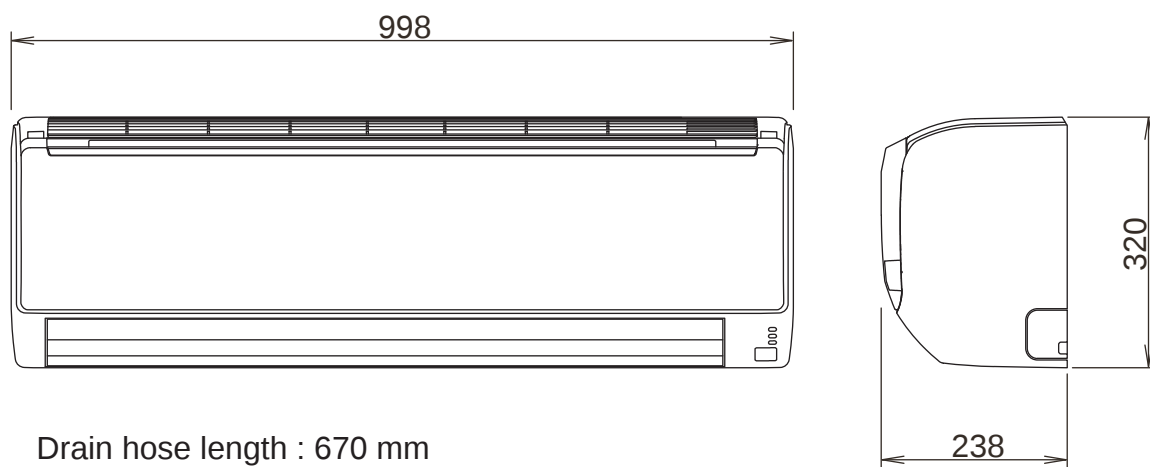
WEIGHT

INDOOR UNIT	Shipping / Net	18 kg / 14 kg
OUTDOOR UNIT	Shipping / Net	47 kg / 43 kg

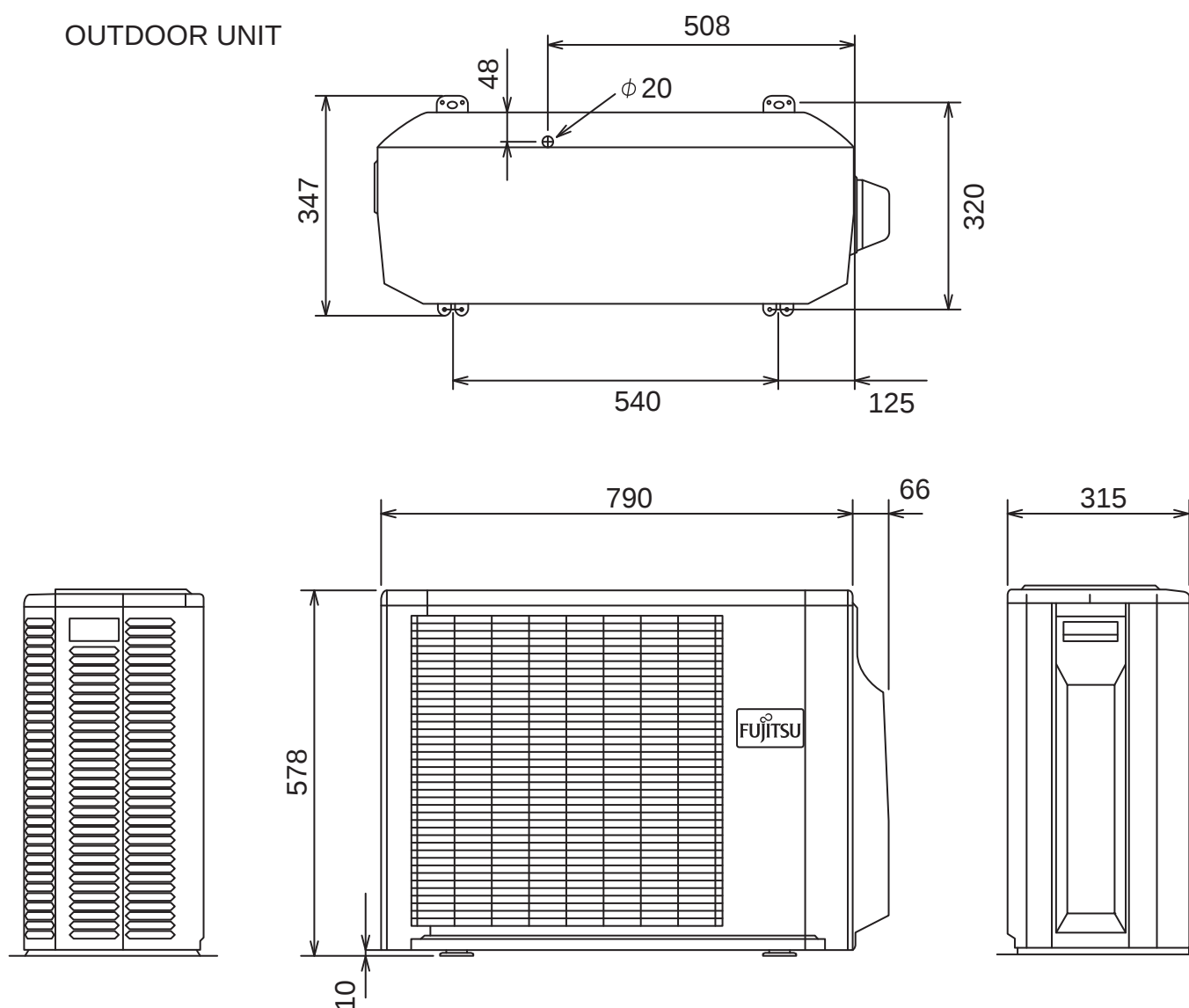
DIMENSIONS

Unit : mm

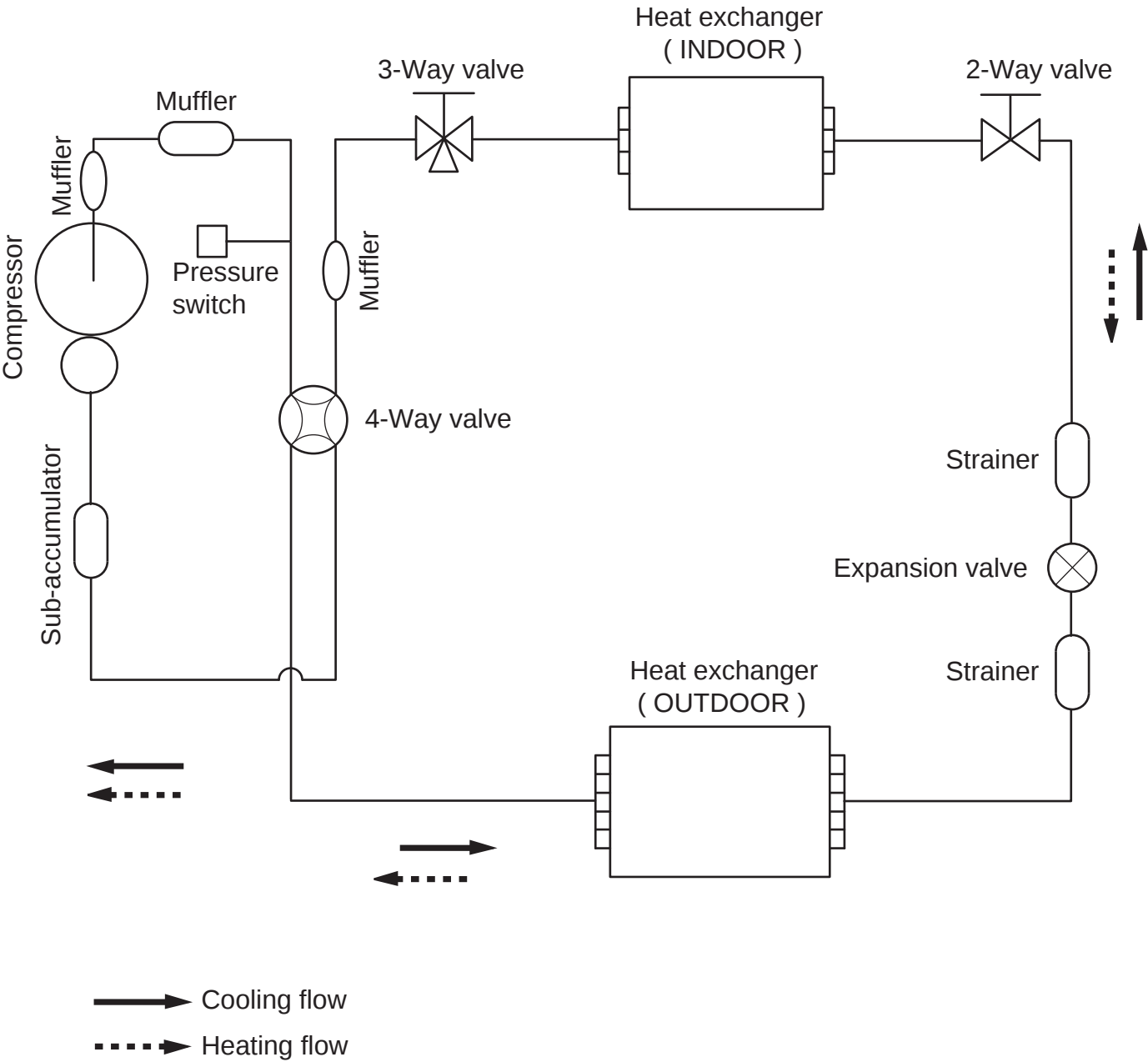
INDOOR UNIT



OUTDOOR UNIT

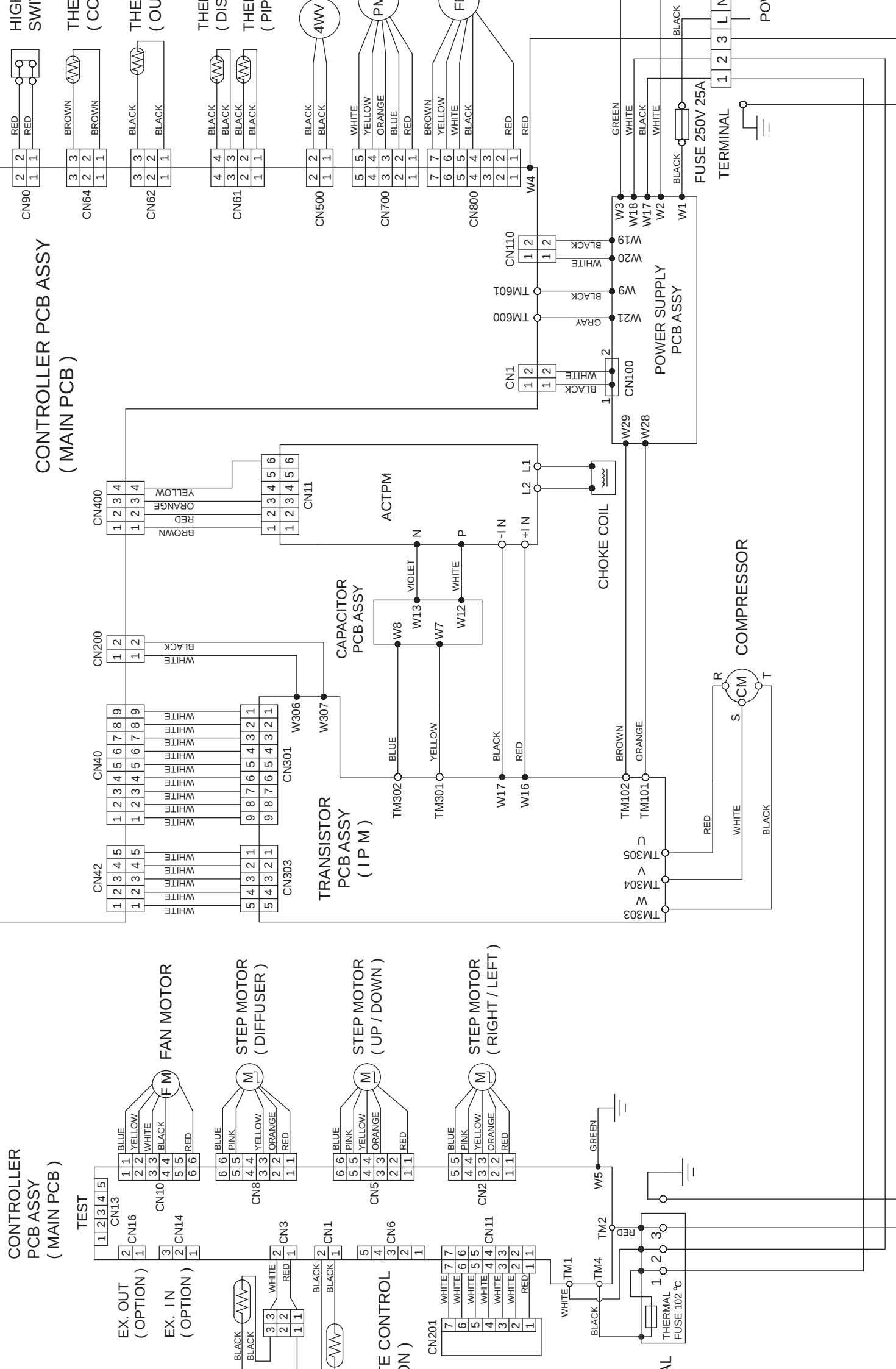


REFRIGERANT SYSTEM DIAGRAM

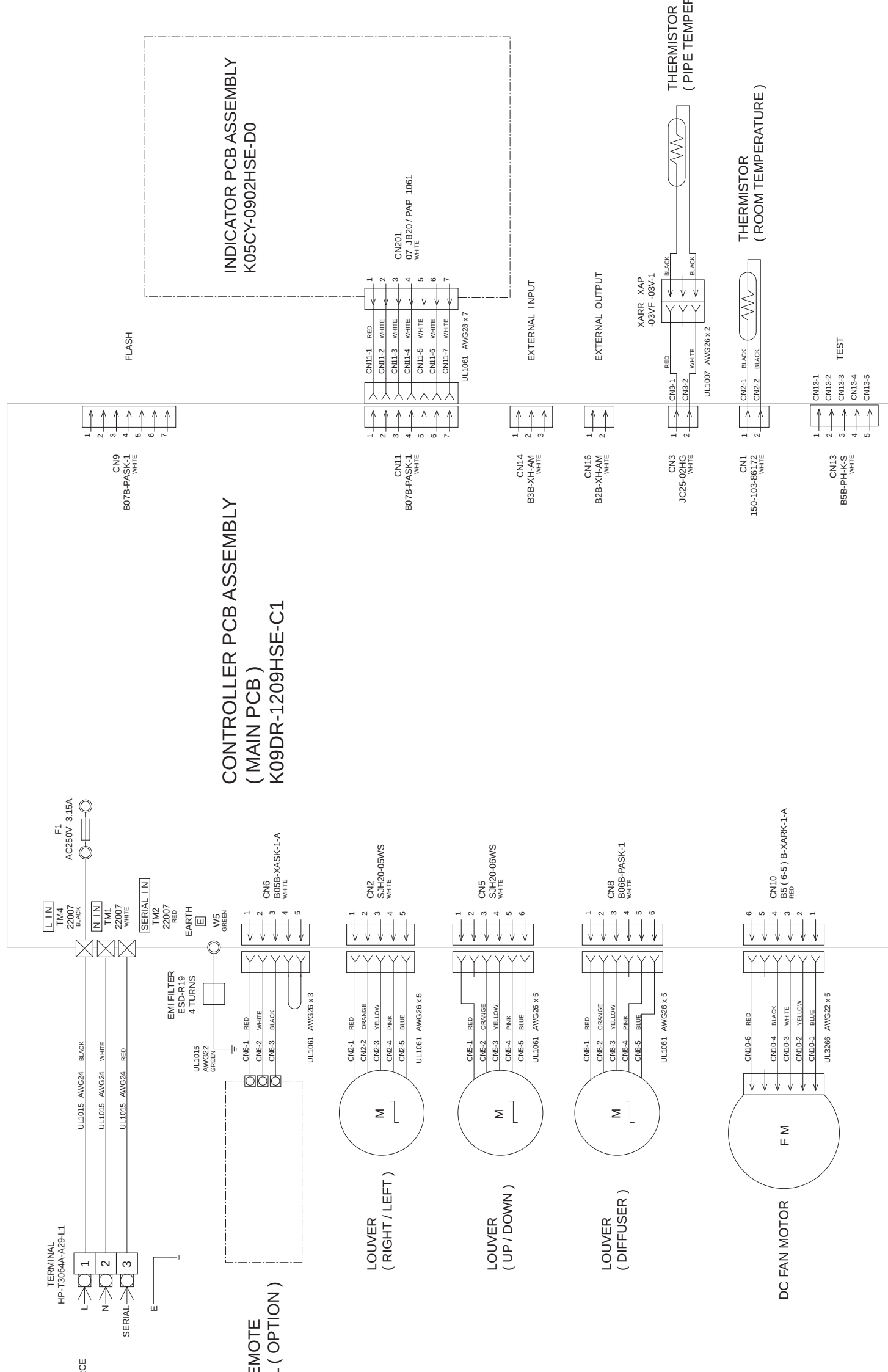


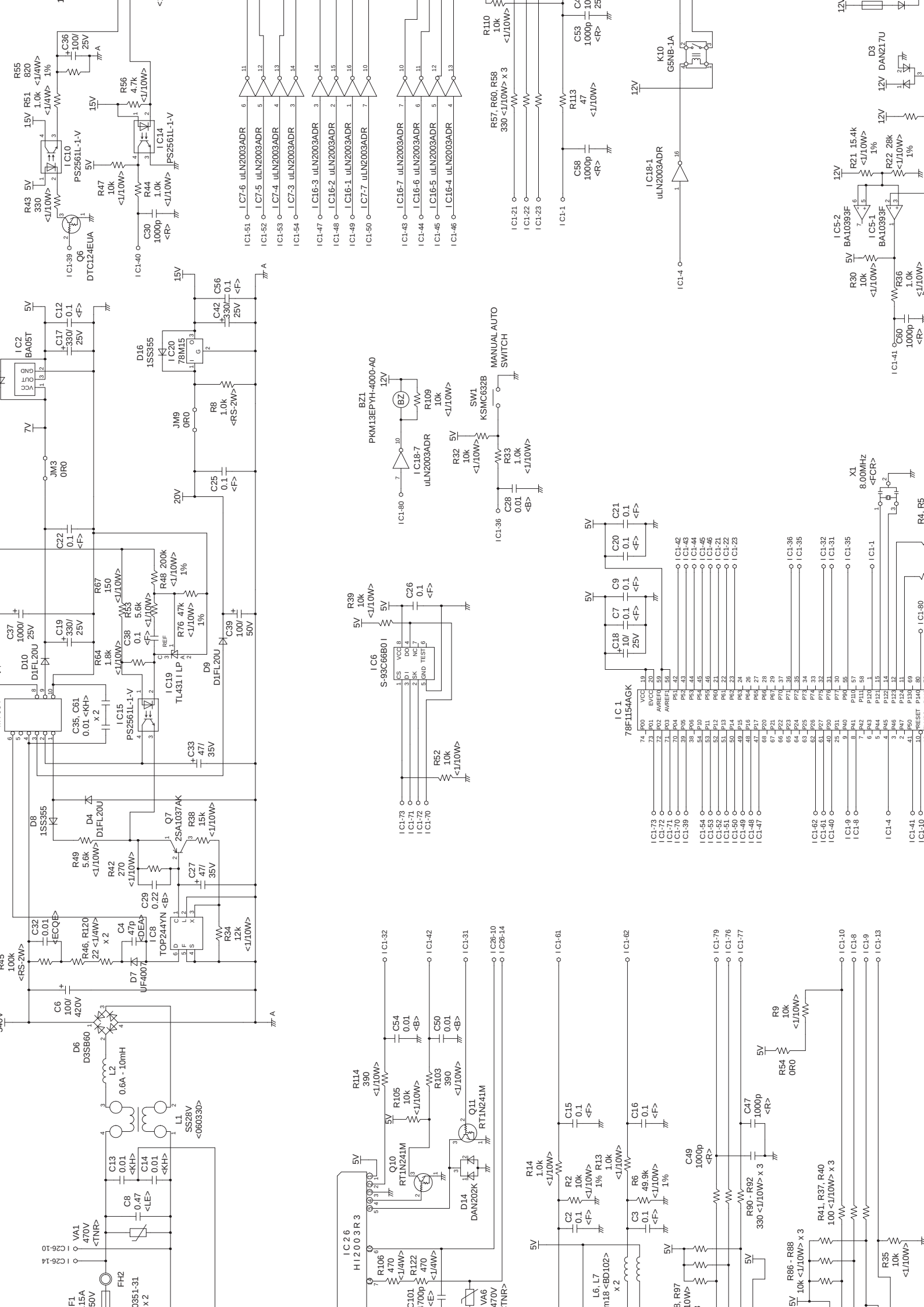
Refrigerant pipe diameter
Liquid : 1/4" (6.35 mm)
Gas : 5/8" (15.88 mm)

OUTDOOR UNIT

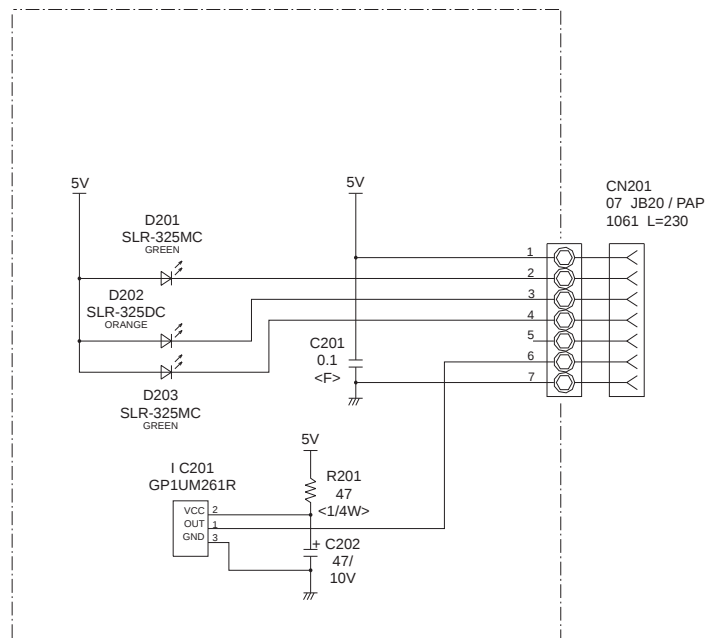


ROL UNIT
238HSE

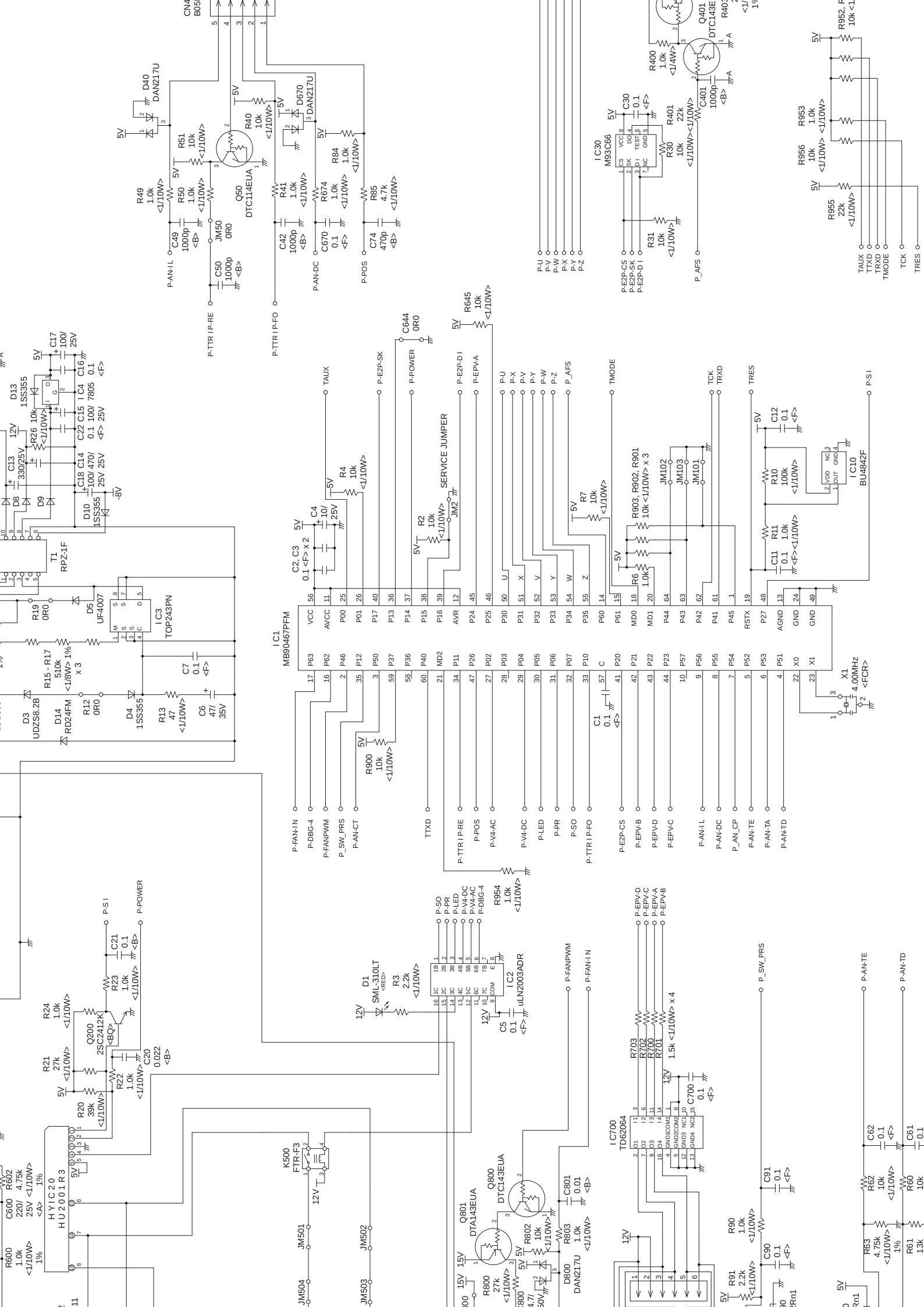




INDOOR UNIT
INDICATOR PCB ASSEMBLY
K05CY-0902HSE-D0



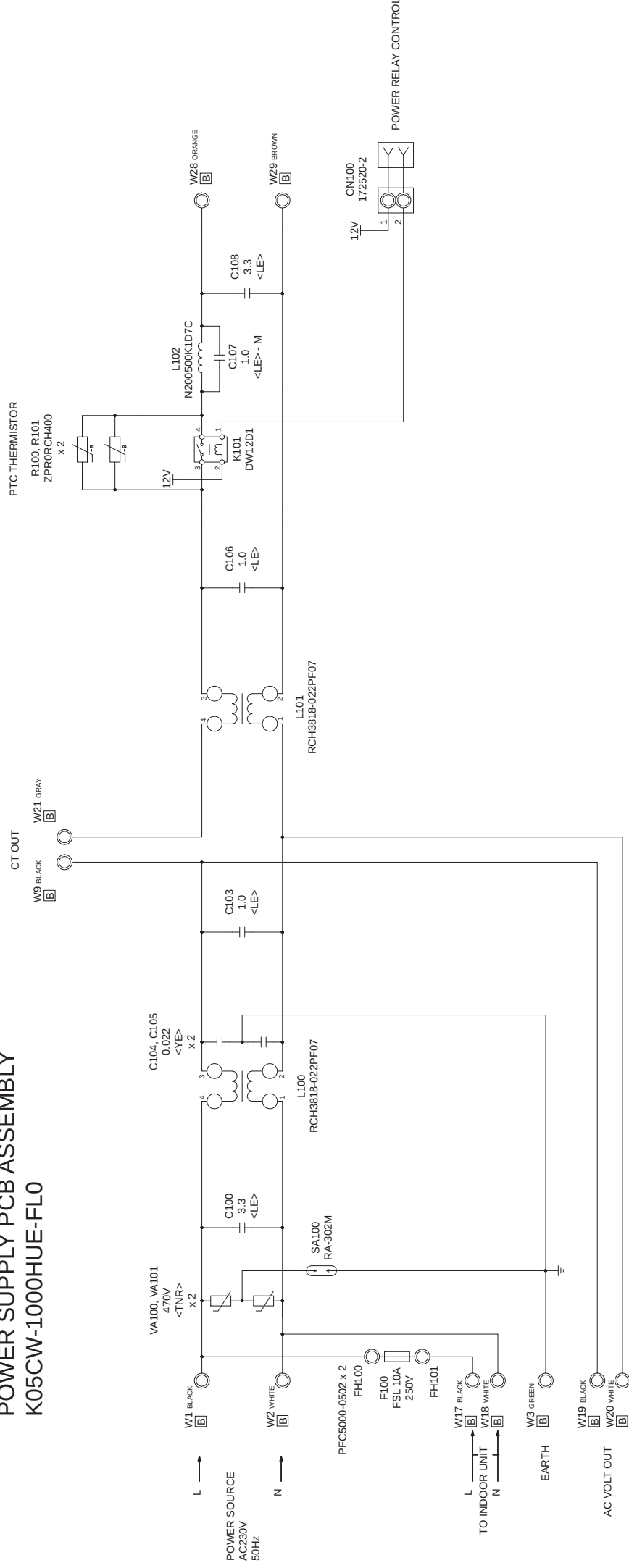




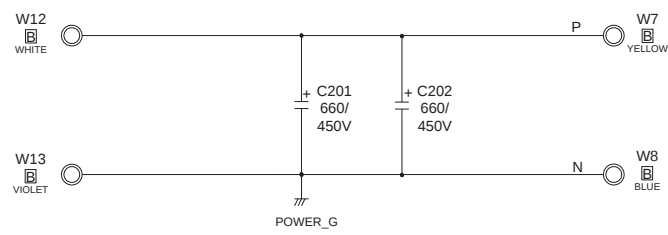
OUTDOOR UNIT



OUTDOOR UNIT POWER SUPPLY PCB ASSEMBLY K05CW-1000HUE-FL0



OUTDOOR UNIT
CAPACITOR PCB ASSY
K05DG-0700HUD-P0



◇ : 0.1s on / 0.1s off

() : Number of flashing

ERROR DETECTION

DOOR UNIT

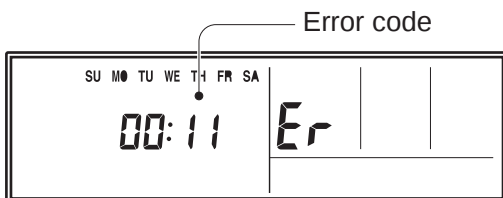
WIRED REMOTE CONTROL

When you use a wireless remote control, the lamp of the photo detector unit will output error codes in a variety of blinking patterns.

When you use a wired type remote control, error codes will appear on the remote control display. Refer to the lamp blinking patterns and error codes in the following table. An error display is displayed only when the unit is running.

Troubleshooting with the wired remote control.

When an error occurs, the following display will be shown. (The error code will appear in the set room temperature display.)

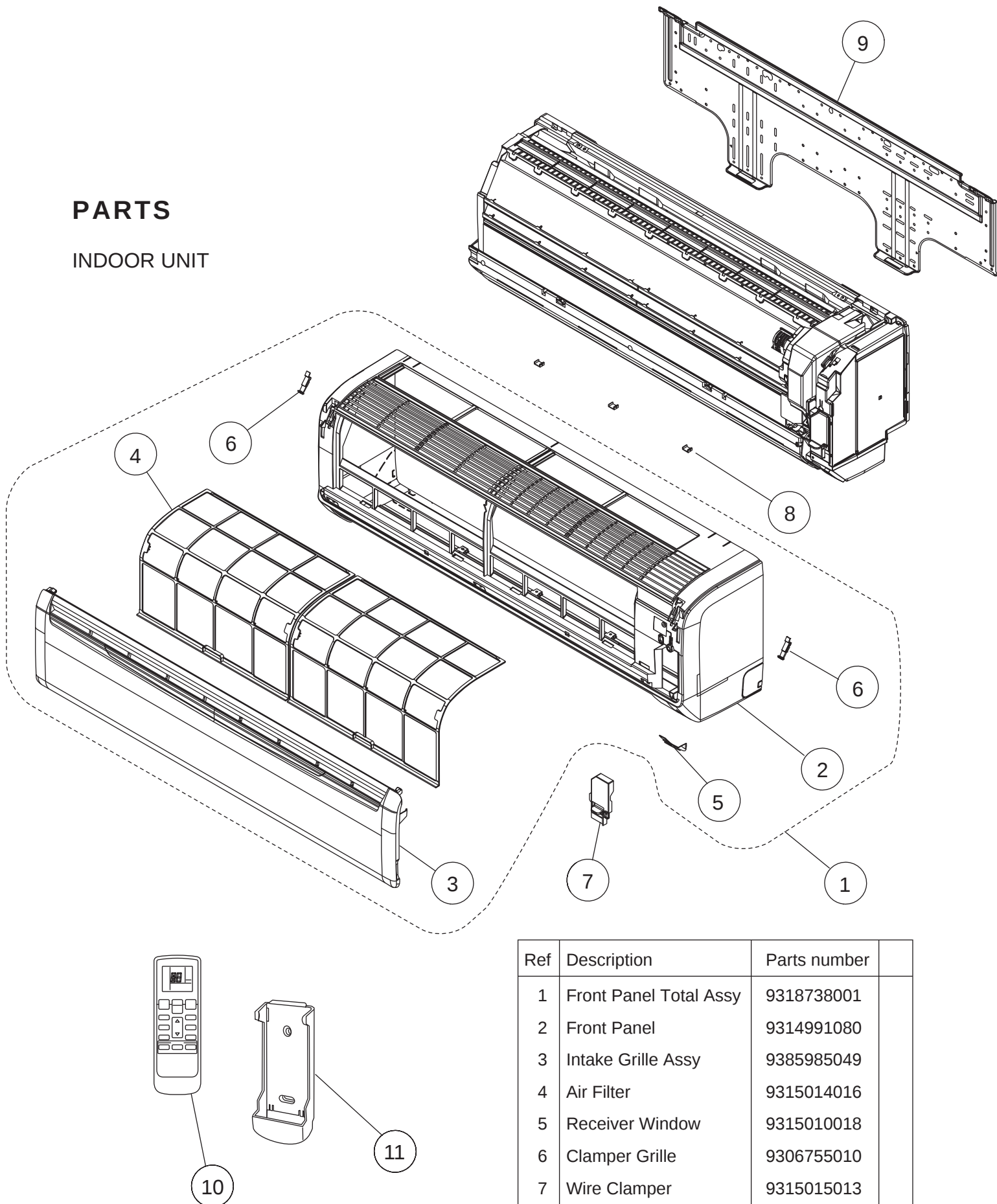


EX. Self-diagnosis

● (1)	● (2)	◇	12	Wired remote control communication error
● (1)	● (5)	◇	15	Check run unfinished
● (2)	● (1)	◇	21	Unit number or Refrigerant circuit address setting error [Simultaneous Multi]
● (2)	● (2)	◇	22	Indoor unit capacity error
● (2)	● (3)	◇	23	Combination error
● (2)	● (4)	◇	24	• Connection unit number error (indoor slave unit) [Simultaneous Multi] • Connection unit number error (indoor unit or branch unit) [Flexible Multi]
● (2)	● (7)	◇	27	Master unit, slave unit set-up error [Simultaneous Multi]
● (3)	● (2)	◇	32	Indoor unit PCB model information error
● (3)	● (5)	◇	35	Manual auto switch error
● (4)	● (1)	◇	41	Inlet air temp. sensor error
● (4)	● (2)	◇	42	Indoor unit Heat Ex. Middle temp. sensor error
● (5)	● (1)	◇	51	Indoor unit fan motor error
● (5)	● (3)	◇	53	Drain pump error
● (5)	● (7)	◇	57	Damper error
● (5)	● (15)	◇	5U	Indoor unit error
● (6)	● (2)	◇	62	Outdoor unit main PCB model information error or communication error
● (6)	● (3)	◇	63	Inverter error
● (6)	● (4)	◇	64	Active filter error, PFC circuit error
● (6)	● (5)	◇	65	Trip terminal L error
● (6)	● (10)	◇	6A	Display PCB microcomputers communication error
● (7)	● (1)	◇	71	Discharge temp. sensor error
● (7)	● (2)	◇	72	Compressor temp. sensor error
● (7)	● (3)	◇	73	Outdoor unit Heat Ex. liquid temp. sensor error
● (7)	● (4)	◇	74	Outdoor temp. sensor error
● (7)	● (5)	◇	75	Suction Gas temp. sensor error
● (7)	● (6)	◇	76	• 2-way valve temp. sensor error • 3-way valve temp. sensor error
● (7)	● (7)	◇	77	Heat sink temp. sensor error
● (8)	● (2)	◇	82	• Sub-cool Heat Ex. gas inlet temp. sensor error • Sub-cool Heat Ex. gas outlet temp. sensor error
● (8)	● (3)	◇	83	Liquid pipe temp. sensor error
● (8)	● (4)	◇	84	Current sensor error
● (8)	● (6)	◇	86	• Discharge pressure sensor error • Suction pressure sensor error • High pressure switch error
● (9)	● (4)	◇	94	Trip detection
● (9)	● (5)	◇	95	Compressor rotor position detection error (permanent stop)
● (9)	● (7)	◇	97	Outdoor unit fan motor error
● (9)	● (9)	◇	99	4-way valve error
● (10)	● (1)	◇	A1	Discharge temp. error
● (10)	● (3)	◇	A3	Compressor temp. error

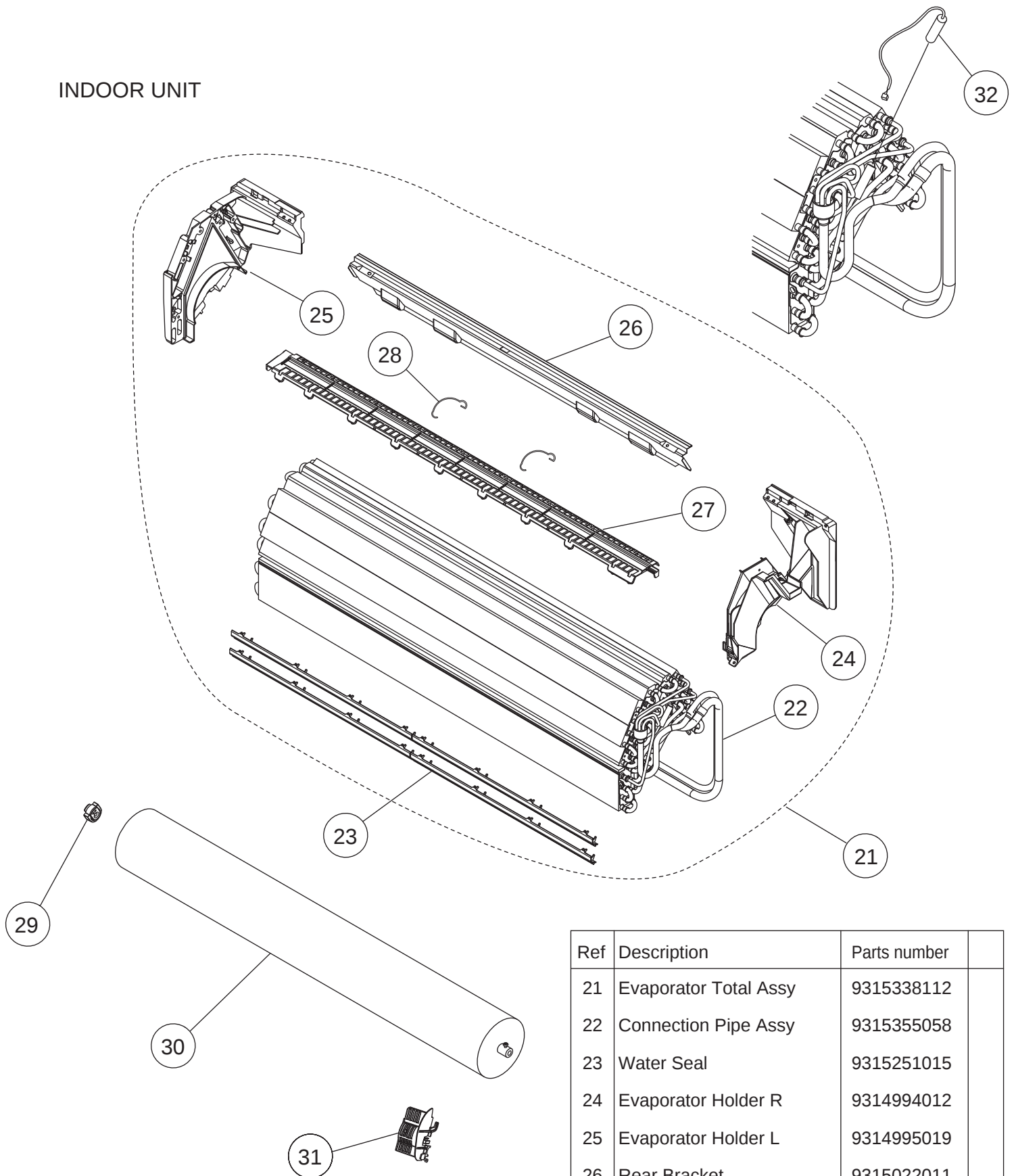
PARTS

INDOOR UNIT



Ref	Description	Parts number	
1	Front Panel Total Assy	9318738001	
2	Front Panel	9314991080	
3	Intake Grille Assy	9385985049	
4	Air Filter	9315014016	
5	Receiver Window	9315010018	
6	Clamper Grille	9306755010	
7	Wire Clamper	9315015013	
8	Cap (Screw)	9309002050	
9	Bracket Panel	9315023018	
10	Remote Control	9379219037	
11	Remote Control Holder	9305642045	
--	Air Clean Filter Assy	9315212016	

INDOOR UNIT



Ref	Description	Parts number	
21	Evaporator Total Assy	9315338112	
22	Connection Pipe Assy	9315355058	
23	Water Seal	9315251015	
24	Evaporator Holder R	9314994012	
25	Evaporator Holder L	9314995019	
26	Rear Bracket	9315022011	
27	Filter Guide	9315013019	
28	Filter Guard	9315411013	
29	Bearing C Assy	9306628017	
30	Crossflow Fan Assy	9315024015	
31	Holder (Room Thermistor)	9315252012	
32	Pipe Thermistor	9900551018	

INDOOR UNIT

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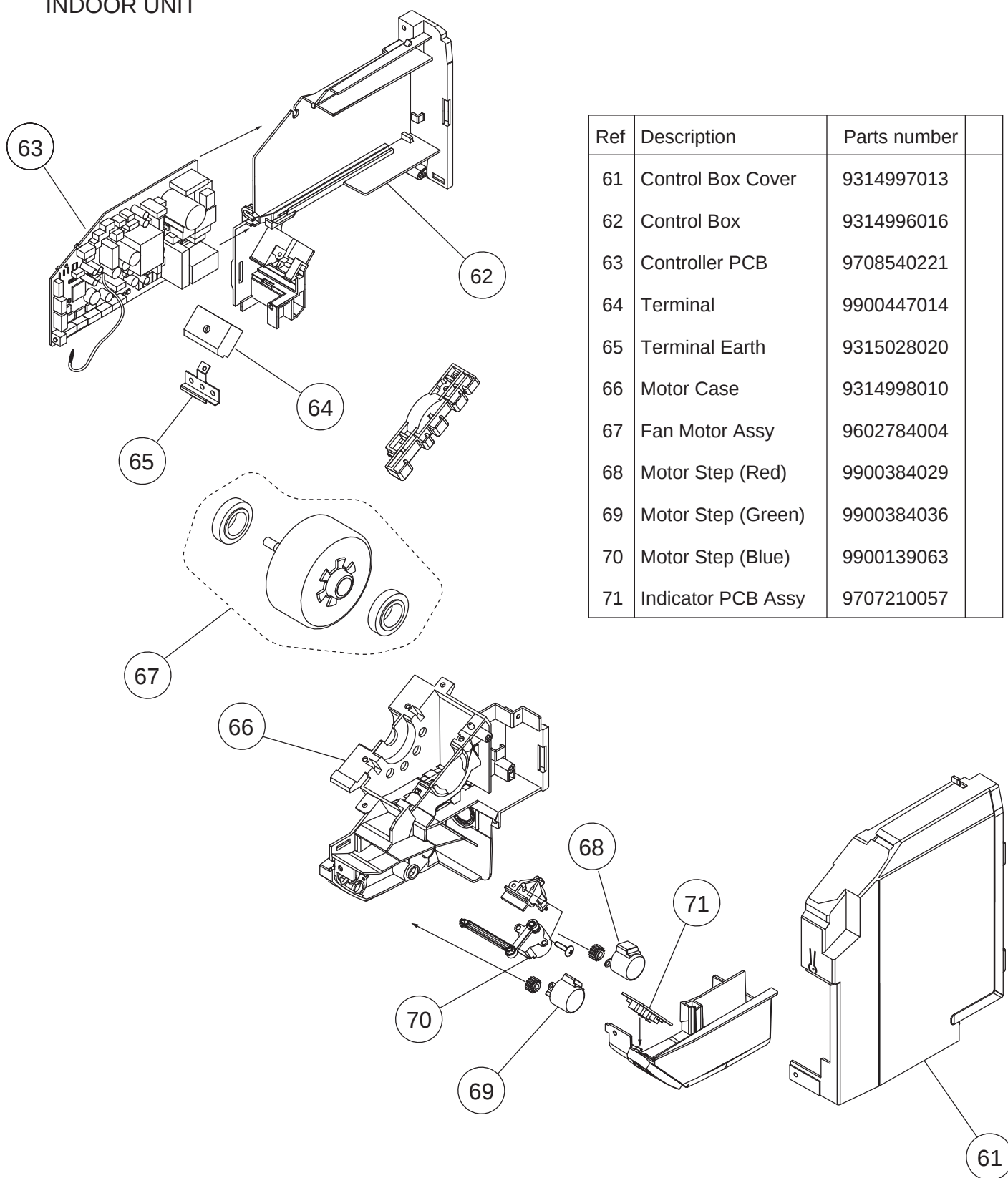
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Ref	Description	Parts number	
41	Casing Assy	9315331045	
42	Casing	9314993015	
43	Casing Cover B	9315016010	
44	Casing Cover L	9315017017	
45	Casing Cover R	9315018014	
46	Casing Cover F	9315019011	
47	Drain Cap	9367677009	
48	Drain Hose Assy	9315769015	
49	Bush B	9312156016	
50	Spacer B	9312441013	

Ref	Description	Parts number	
51	Louver U	9315000019	
52	Louver Z	9315001016	
53	Diffuser U	9315002013	
54	Diffuser Z	9315003010	
55	Spring C	9314142017	
56	Pillar A	9315009012	
57	Joint B	9315006011	
58	R and L Louver	9311997016	
-	Fan Guard	9305751051	
-	Fan Guard Holder Right	9315814012	
-	Fan Guard Holder Left	9315815019	

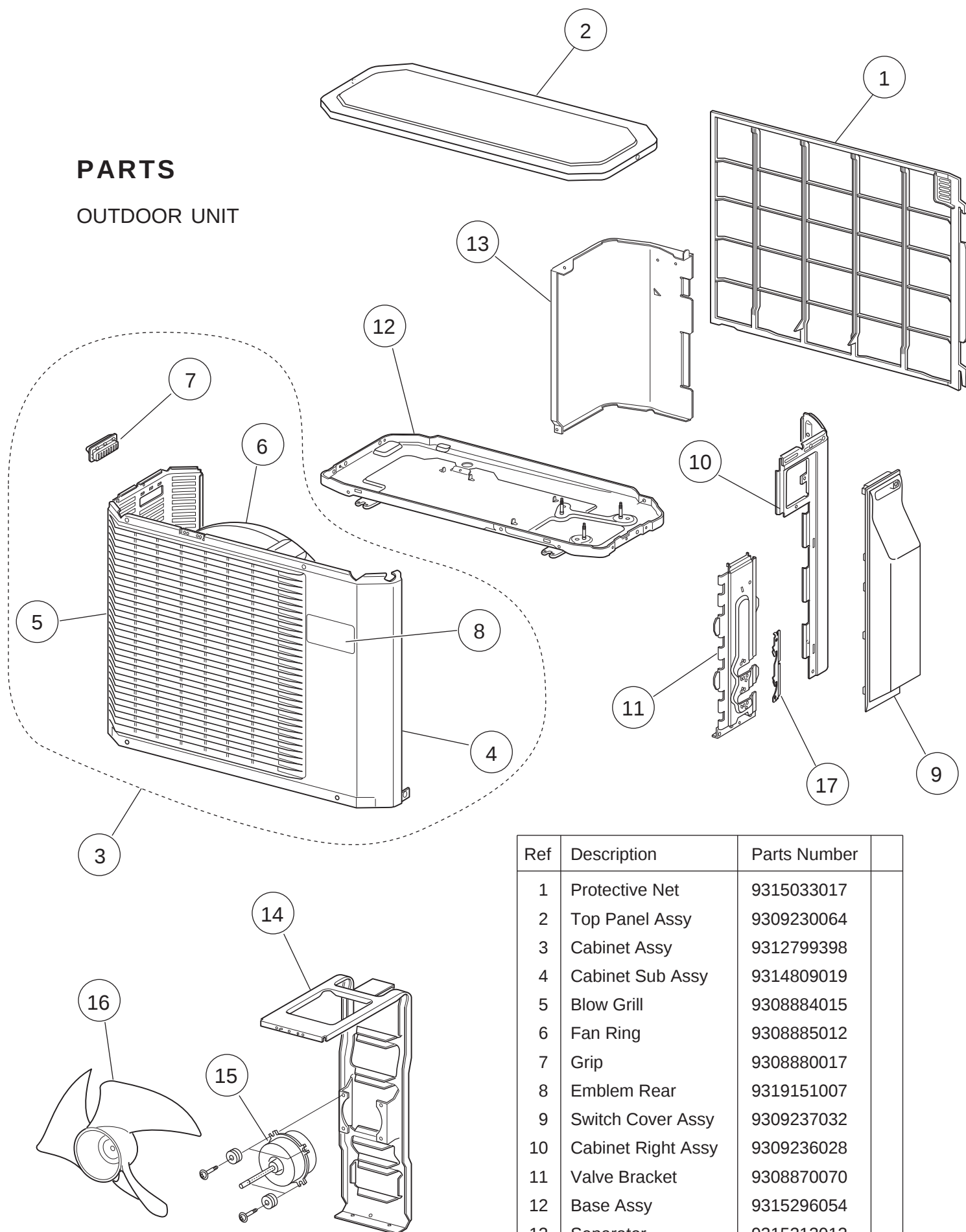
INDOOR UNIT



Ref	Description	Parts number
61	Control Box Cover	9314997013
62	Control Box	9314996016
63	Controller PCB	9708540221
64	Terminal	9900447014
65	Terminal Earth	9315028020
66	Motor Case	9314998010
67	Fan Motor Assy	9602784004
68	Motor Step (Red)	9900384029
69	Motor Step (Green)	9900384036
70	Motor Step (Blue)	9900139063
71	Indicator PCB Assy	9707210057

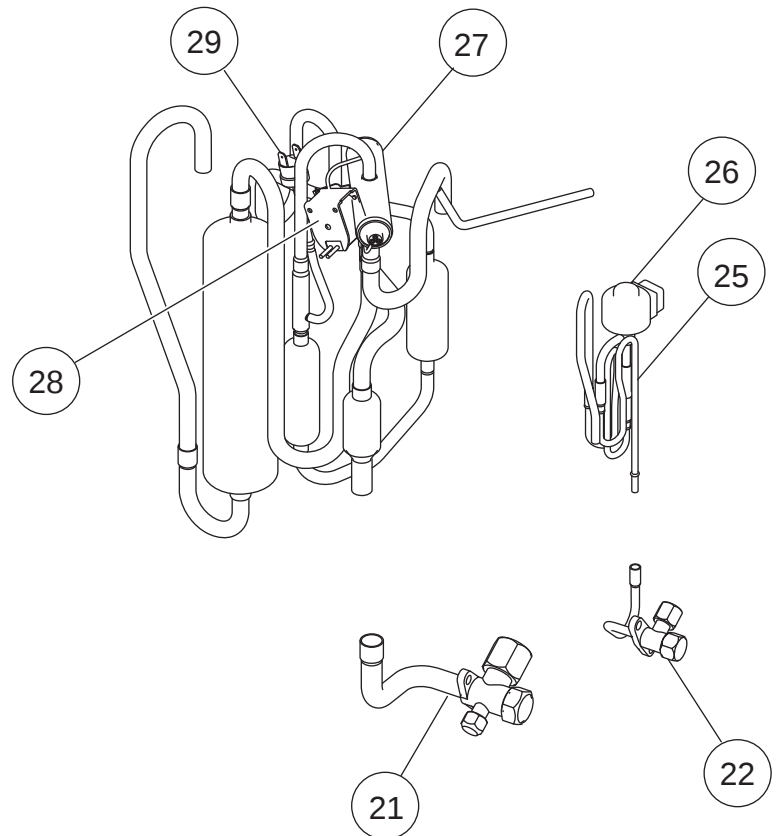
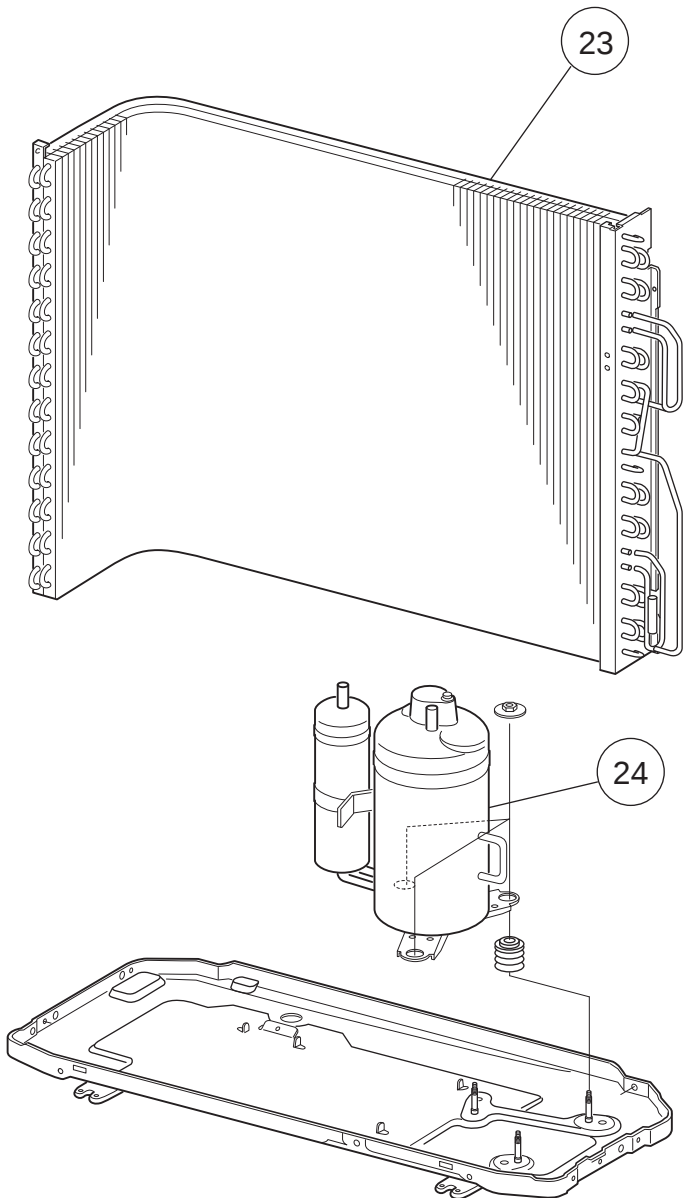
PARTS

OUTDOOR UNIT

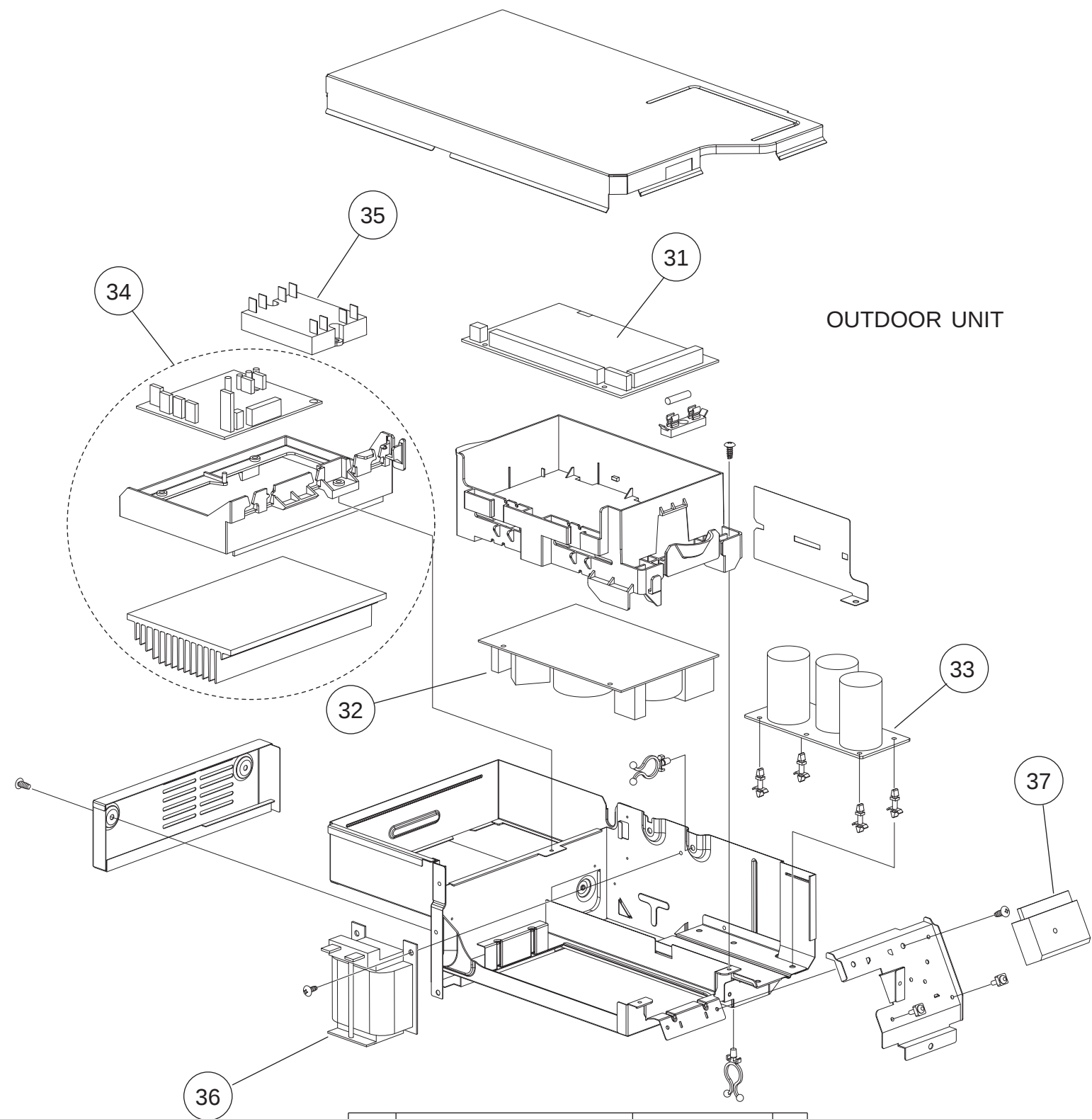


Ref	Description	Parts Number	
1	Protective Net	9315033017	
2	Top Panel Assy	9309230064	
3	Cabinet Assy	9312799398	
4	Cabinet Sub Assy	9314809019	
5	Blow Grill	9308884015	
6	Fan Ring	9308885012	
7	Grip	9308880017	
8	Emblem Rear	9319151007	
9	Switch Cover Assy	9309237032	
10	Cabinet Right Assy	9309236028	
11	Valve Bracket	9308870070	
12	Base Assy	9315296054	
13	Separator	9315213013	
14	Motor Bracket Assy	9313432027	
15	DC Brushless Motor	9603019006	
16	Propeller Fan	9309909014	
17	Valve Cover	9316884007	

OUTDOOR UNIT

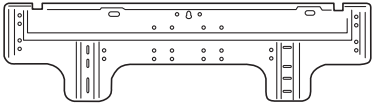
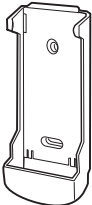
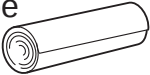
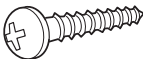
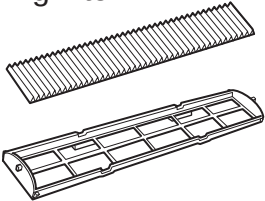
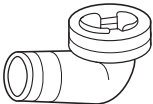


Ref	Description	Parts number	
21	3-way Valve Assy	9315414014	
22	2-way Valve Assy	9313062019	
23	Condenser Sub Assy	9312069163	
24	Compressor Assy	9315297068	
25	Pulse Motor Valve Assy	9314494048	
26	Expansion Valve Coil	9970095030	
27	4-way Valve Assy	9315311061	
28	Solenoid	9970055065	
29	Pressure Switch	9900186012	



Ref	Description	Parts number	
31	Controller PCB Assy	9707667608	
32	Power Supply PCB Assy	9707128222	
33	Capacitor PCB Assy	9707129113	
34	TR PCB Assy	9708647098	
35	ACTPM	9707592016	
36	Chock Coil	9900223014	
37	Terminal	9703874031	
--	Thermistor Assy	9900594008	
--	Outdoor Thermistor	9900544027	
--	Compressor Thermistor	9900516024	
--	Wire (Pressure Switch)	9708584010	

ACCESSORIES

Name and Shape	Part number
Wall hook bracket 	9315023018
Remote control 	9379219037
Remote control holder 	9305642045
Battery (penlight) 	0600185541
Cloth tape 	9310519004
Tapping screw (big) 	0700076046
Tapping screw (small) 	0700019036
Air cleaning filter 	UTR-FA13-1 UTR-FA13-2
Drain assy 	9303029015

