FUJITSU

SPLIT TYPE
ROOM AIR CONDITIONER
WALL MOUNTED TYPE

SERVICE MANUAL

Indoor unit	Outdoor unit
ASYA12LCC	AOYR12LCC

Refrigerant R410A

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FUJITSU GENERAL LIMITED

SPECIFICATIONS

ELECTRICAL DATA

TYPE		COOL & HEAT INVERTER
INDOOR UNIT		ASYA12LCC
OUTDOOR UNIT		AOYR12LCC
COOLING CAPACITY		3.50 kW
HEATING CAPACITY		4.80 kW
POWER SOURCE		230 V
FREQUENCY		50 Hz
RUNNING CURRENT	Cooling	4.3 A
	Heating	5.6 A
INPUT WATTS	Cooling	0.92 kW
	Heating	1.24 kW
E.E.R.	Cooling	3.80 kW/kW
COP	Heating	3.87 kW/kW
MOISTURE REMOVAL		1.8 L/hr
AIR CIRCULATION High	Cooling	635 m3/hr
	Heating	670 m3/hr

FAN MOTOR

POWER SOURCE		230 V
INDOOR UNIT Cooling	High	1,370 r.p.m.
	Medium	1,150 r.p.m.
	Low	950 r.p.m.
	Quiet	700 r.p.m.
INDOOR UNIT Heating	High	1,440 r.p.m.
	Medium	1,200 r.p.m.
	Low	1,000 r.p.m.
	Quiet	760 r.p.m.
OUTDOOR UNIT		830 r.p.m.

NOISE LEVEL

INDOOR UNIT Cooling	High	42 dB
	Medium	36 dB
	Low	30 dB
	Quiet	21 dB
INDOOR UNIT Heating	High	42 dB
	Medium	35 dB
	Low	29 dB
	Quiet	21 dB
OUTDOOR UNIT, Cooling		47 dB
OUTDOOR UNIT, Heating		49 dB

COMPRESSOR AND REFRIGERANT

TYPE		Hermetic type, 4 pole, 3 phase, DC inverter motor, Rotary
DISCRIMINATION		DA89X1C-20FZ2
WEIGHT (with oil)		9.2 kg
REFRIGERANT TYPE		R410A
PRECHARGED REFRIGERANT		1,050 g
Pipe length FULL CHARGE	15 m	1,050 g
	20 m	1,150 g
ADDITIONAL CHARGE		20 g/m
MAXIMUM PIPING HEIGHT		15m

DIMENSIONS

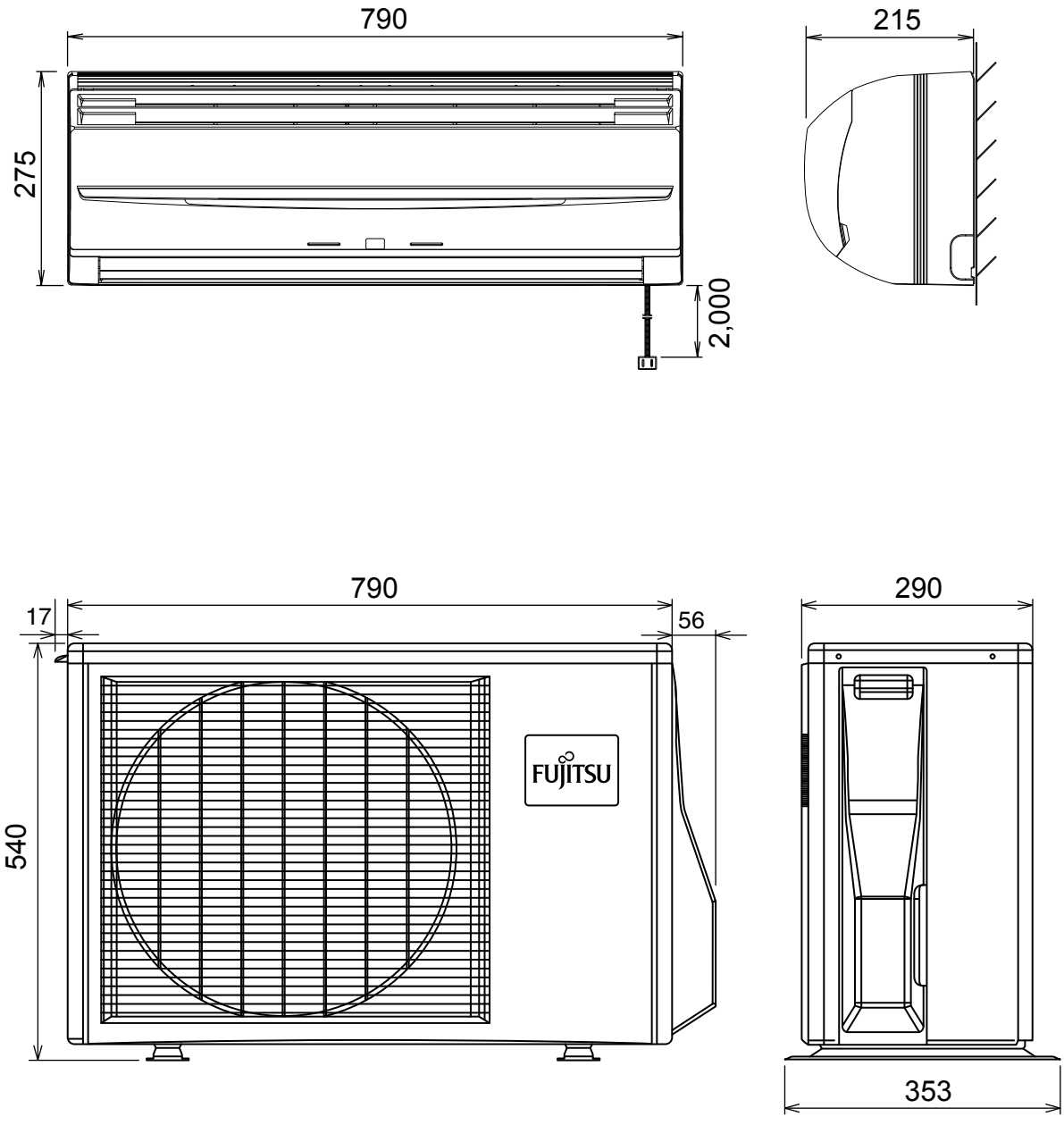
INDOOR UNIT	H x W x D	275 x 790 x 215 mm
OUTDOOR UNIT	H x W x D	540 x 790 x 290 mm

WEIGHT

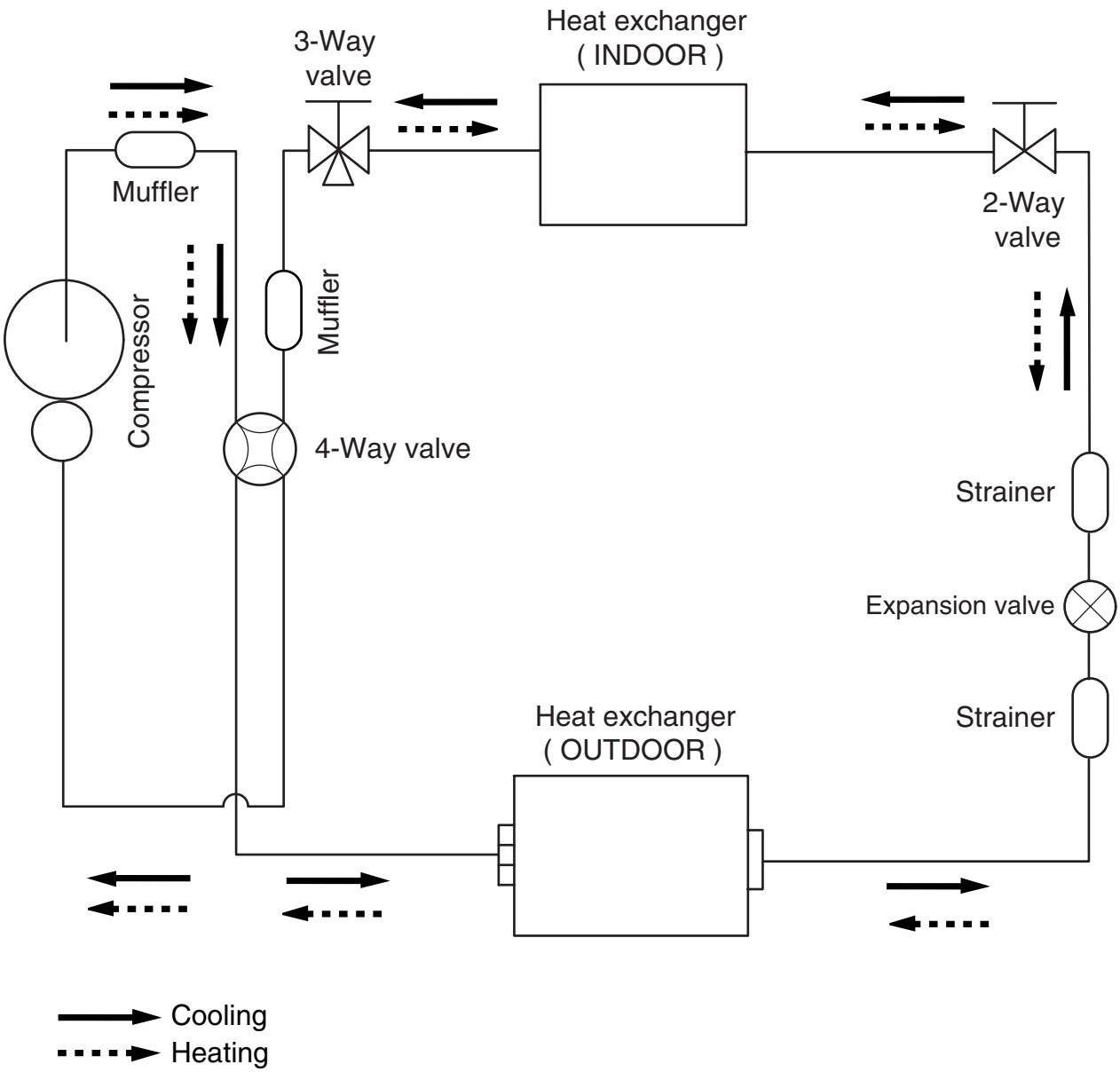
INDOOR UNIT Shipping / Net	12 kg / 9 kg
OUTDOOR UNIT Shipping / Net	41 kg / 37 kg

DIMENSIONS

(unit : mm)



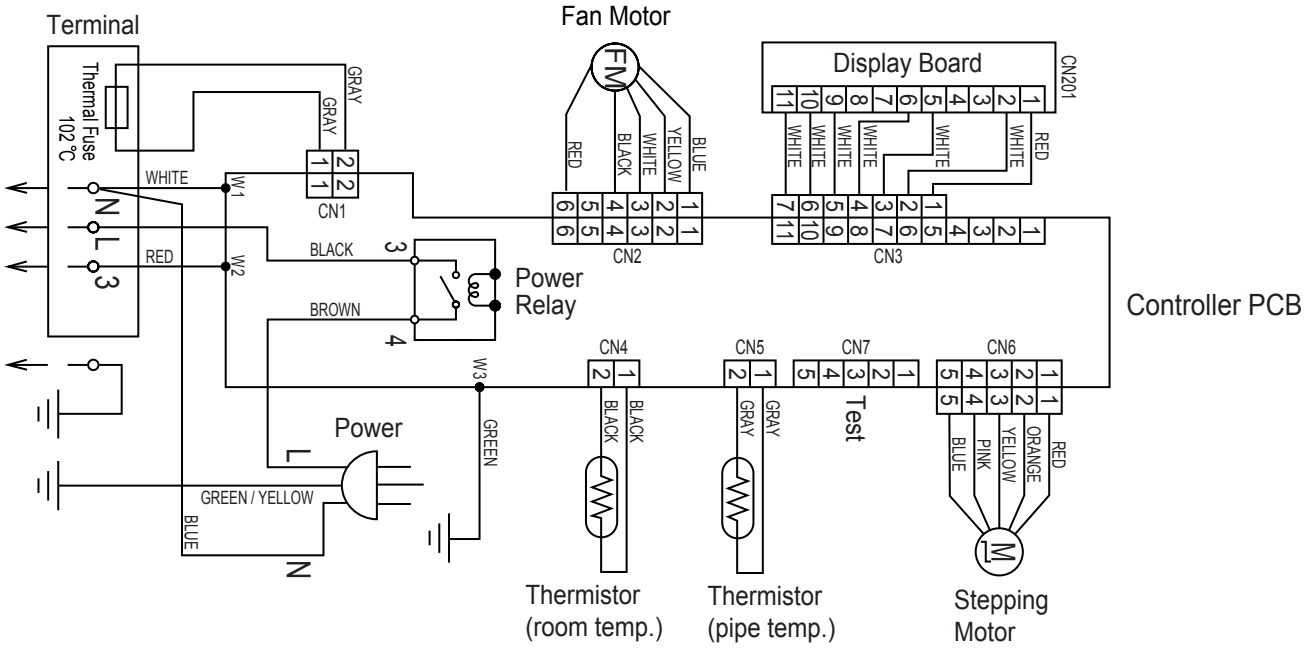
REFRIGERANT SYSTEM DIAGRAM



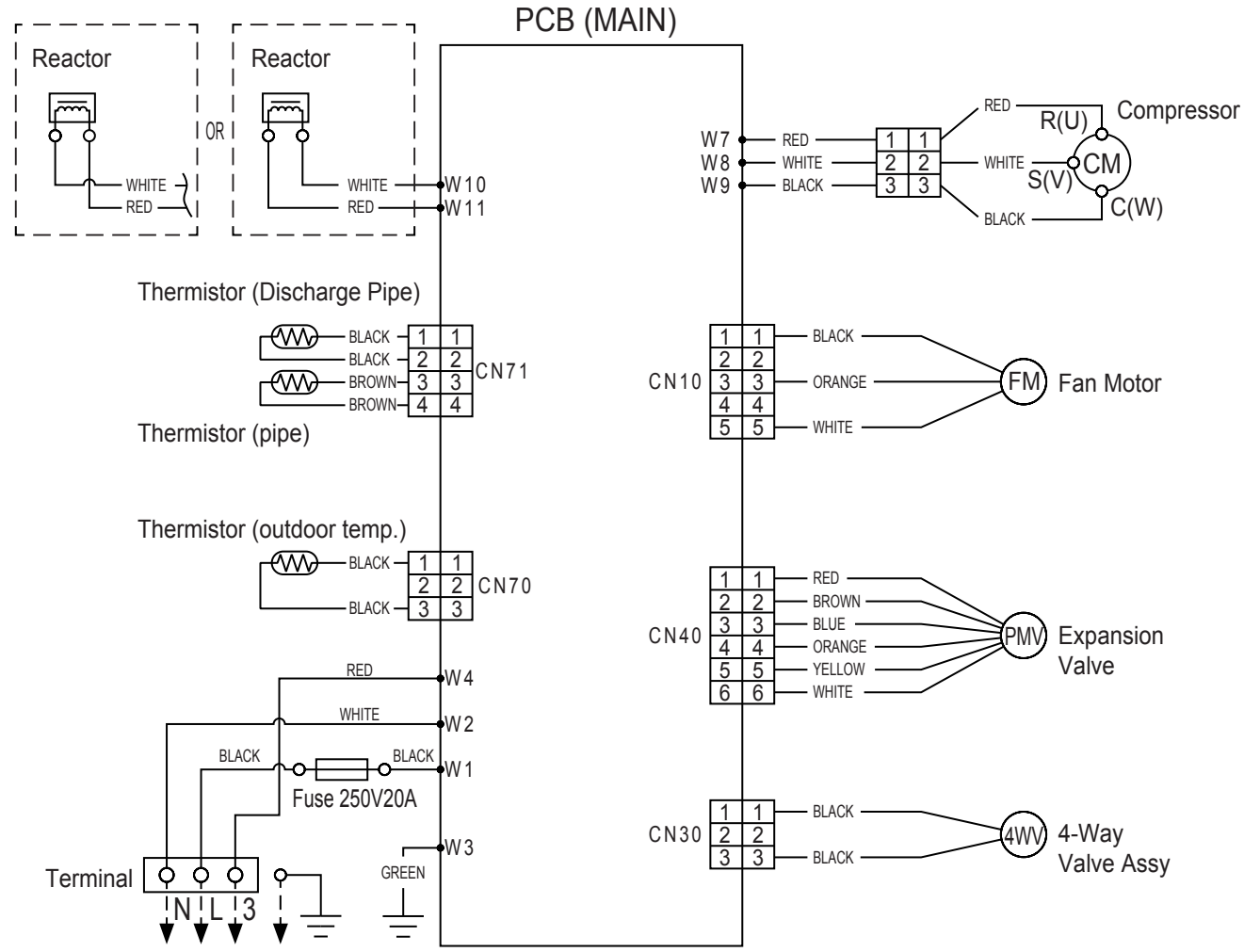
Refrigerant pipe diameter
Liquid : 1/4" (6.35 mm)
Gas : 3/8" (9.52 mm)

CIRCUIT DIAGRAM

INDOOR UNIT



OUTDOOR UNIT

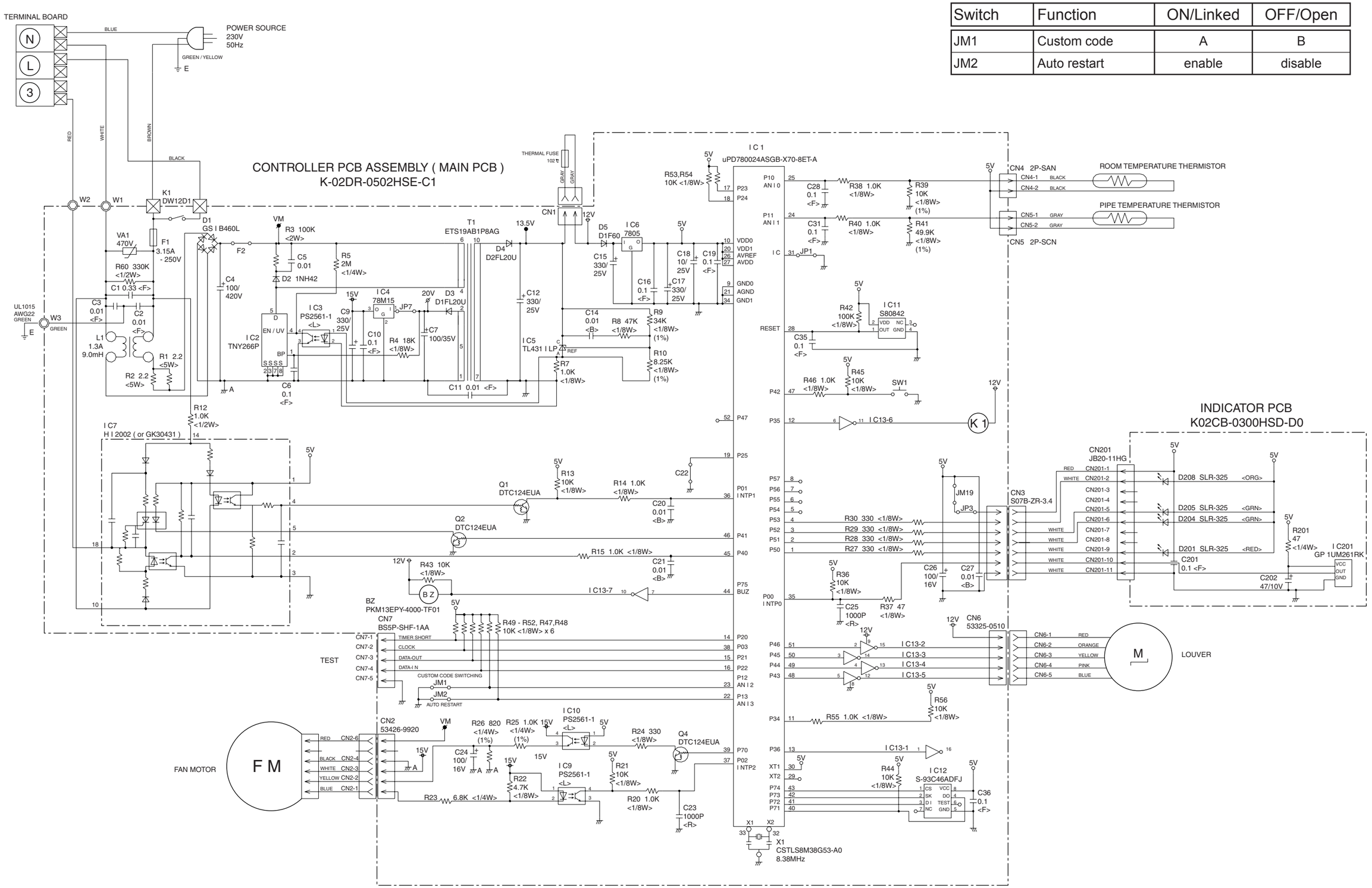


INDOOR PCB CIRCUIT DIAGRAM

Model : ASYA12LCC

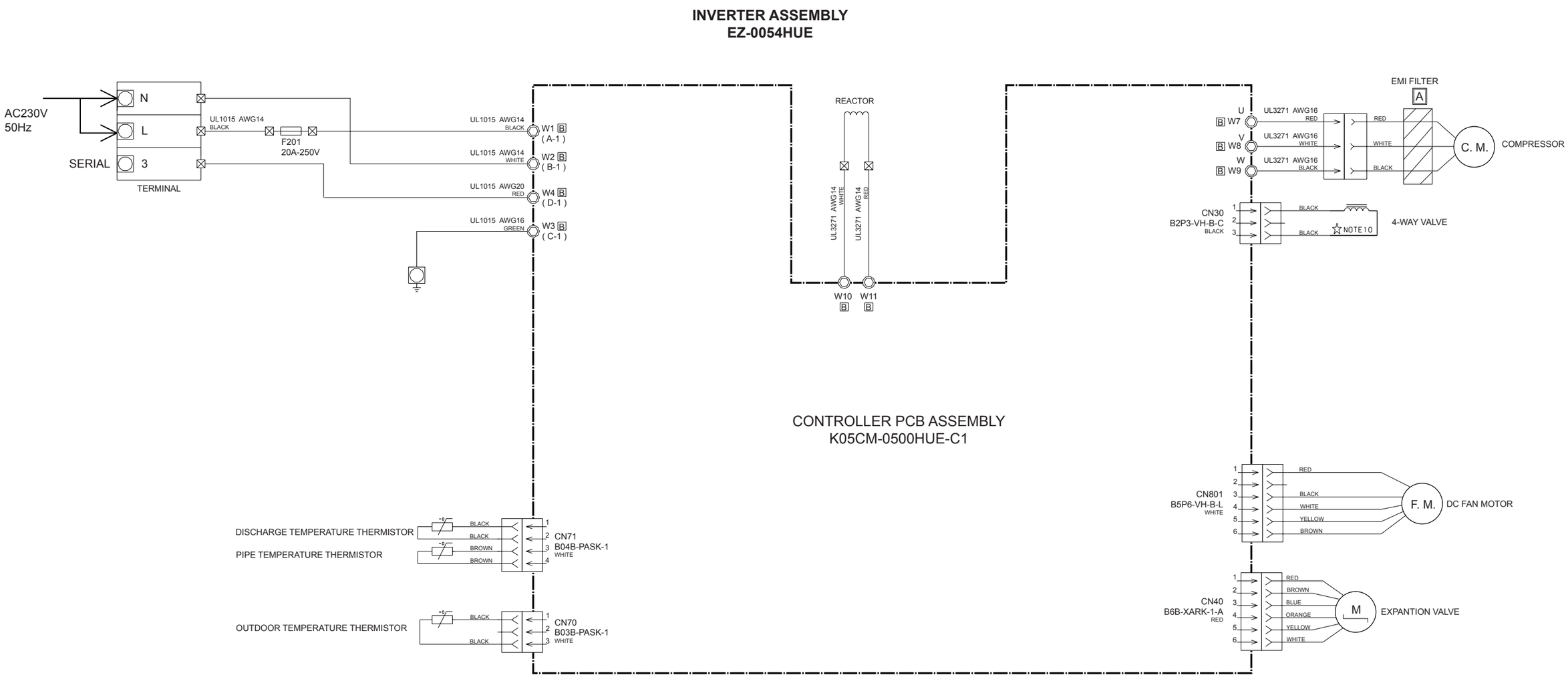
Jumper wire configurations

Switch	Function	ON/Linked	OFF/Open
JM1	Custom code	A	B
JM2	Auto restart	enable	disable



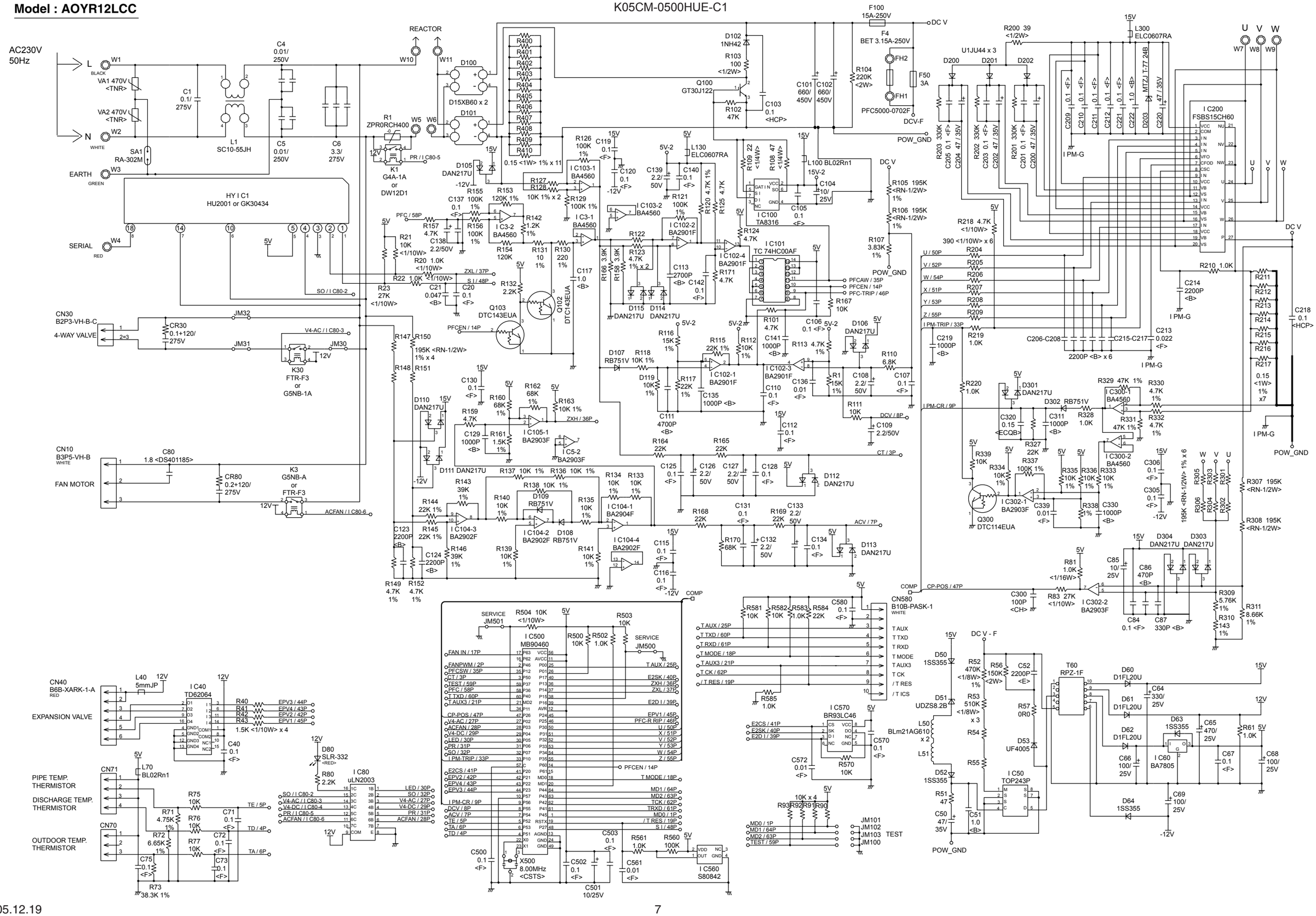
OUTDOOR PCB CIRCUIT DIAGRAM

Model : AOYR12LCC



Model : AOYR12LCC

CONTROLLER PCB ASSEMBLY
K05CM-0500HUE-C1

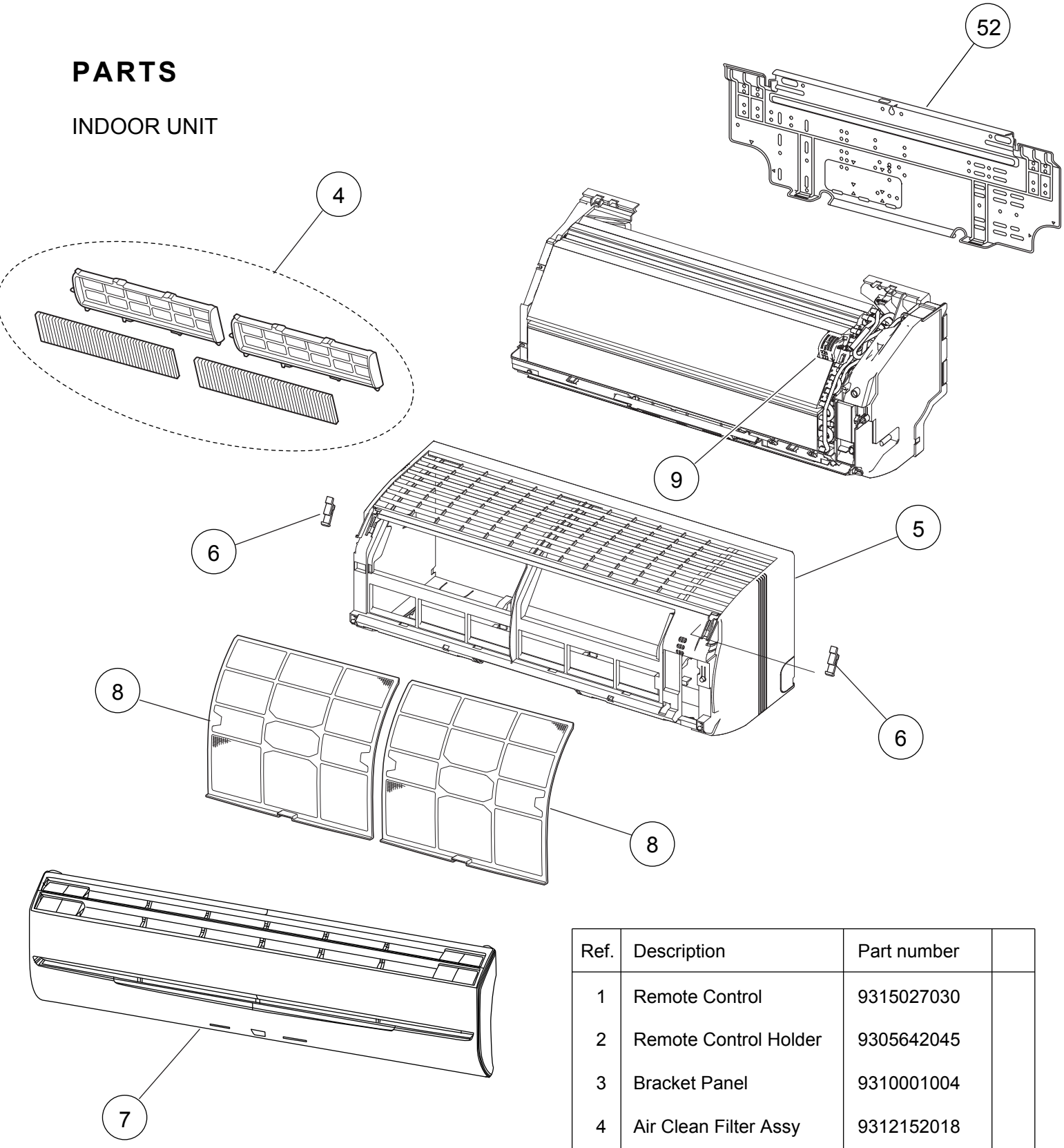


ERROR CONTENTS

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 oeration
		4 flash	Serial signal (forward) error, at operation start up
		5 flash	Serial signal (forward) error, during operation
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
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
Optional function error	8 flash	4 flash	PFC circuit error
Model error	Blinking	Blinking	Model error

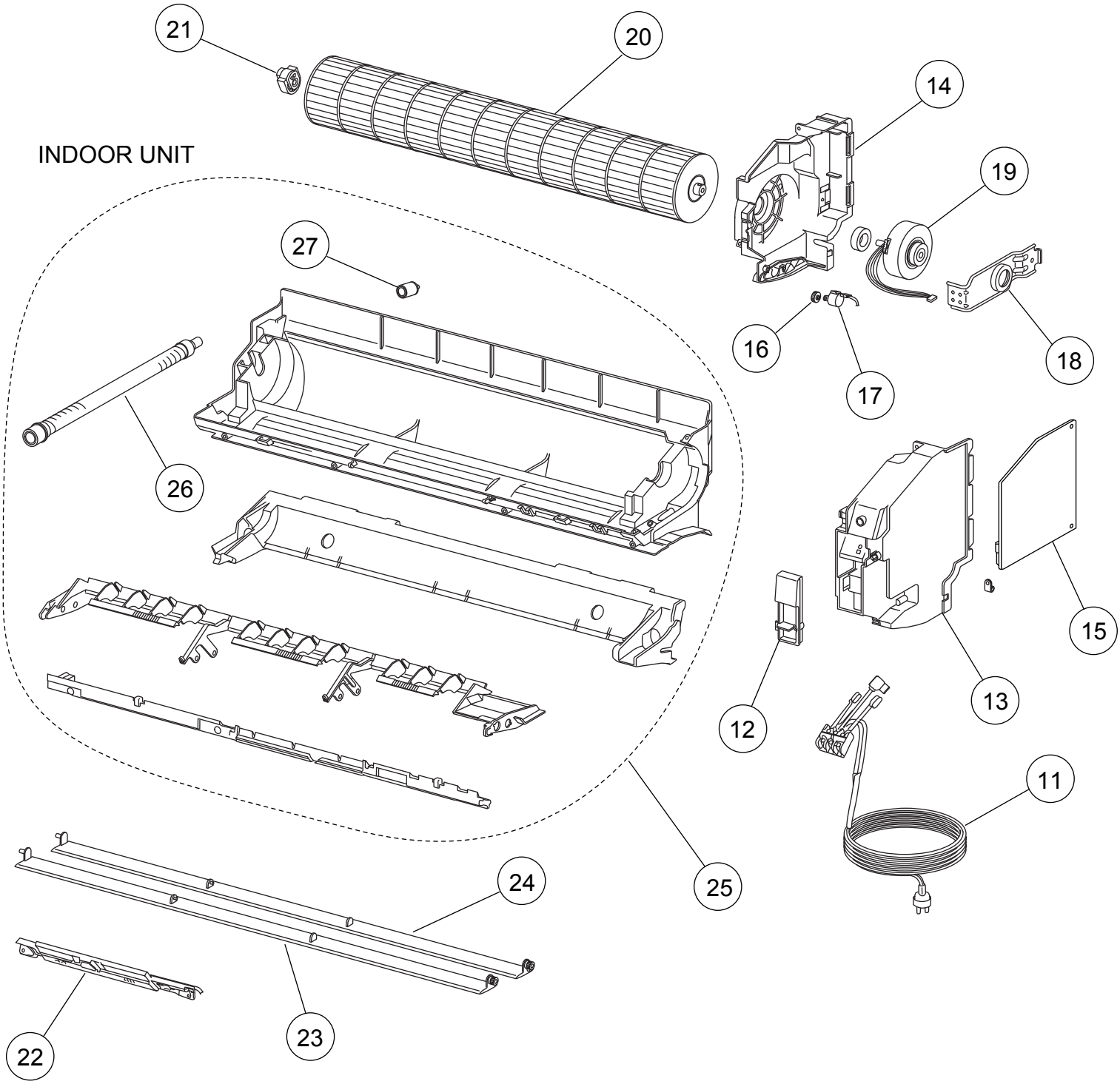
PARTS

INDOOR UNIT



Ref.	Description	Part number	
1	Remote Control	9315027030	
2	Remote Control Holder	9305642045	
3	Bracket Panel	9310001004	
4	Air Clean Filter Assy	9312152018	
5	Front Panel	9309999053	
6	Grille Clamper	9306755010	
7	Intake Grille Assy	9313131128	
8	Air Filter	9309997011	
9	Room Thermistor Holder	9311948018	

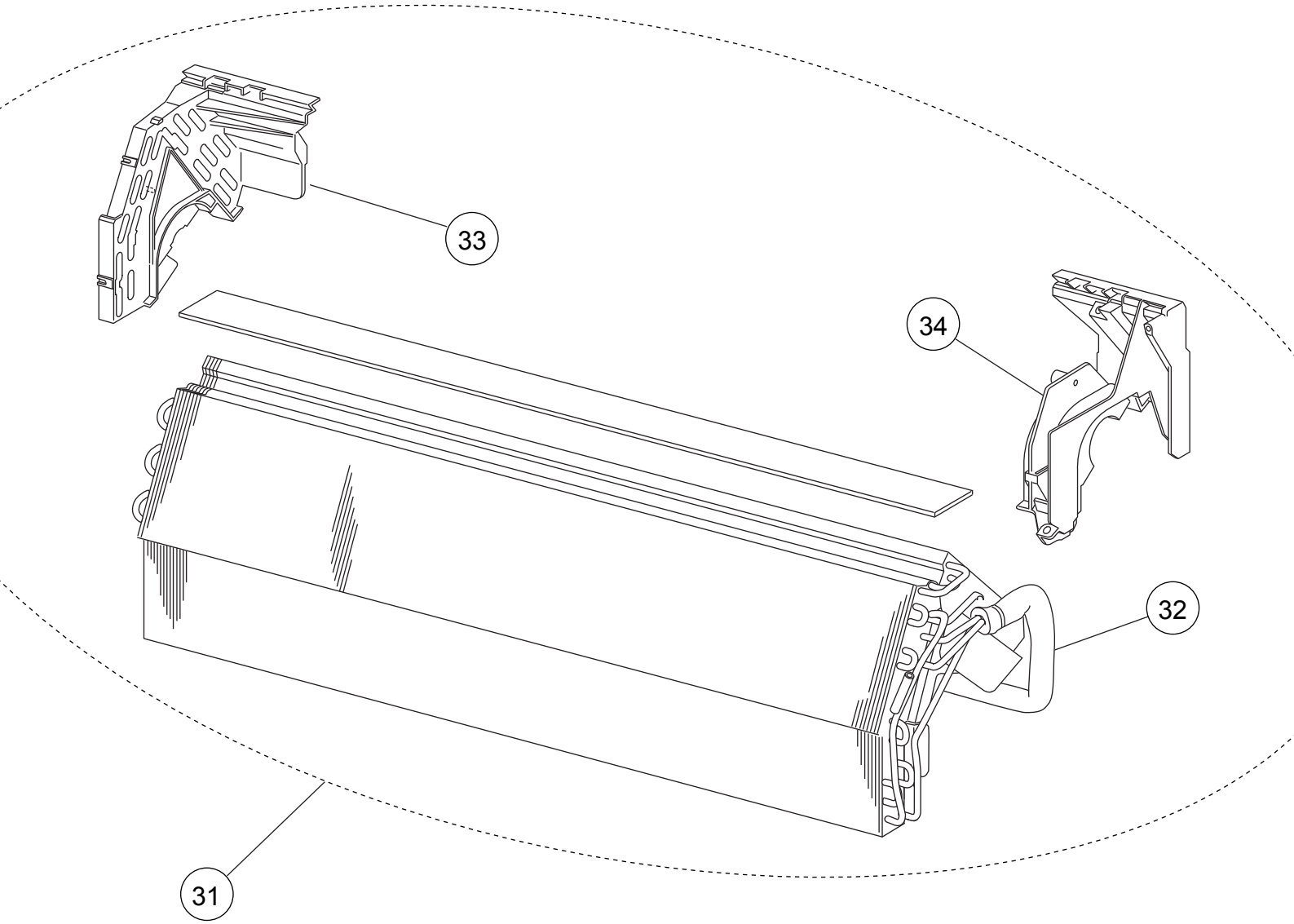
INDOOR UNIT



Ref.	Description	Part number	
11	Power Cord Assy	9900339012	
12	Wire Clamper	9311946014	
13	Switch Cover	9312909018	
14	Switch Box	9312908011	
15	Controller PCB Assy	9705656093	
16	Gear A	9309994003	
17	Step Motor	9900139025	
18	Motor Clamp	9310102008	
19	Fan Motor Assy	9601814016	

Ref.	Description	Part number	
20	Crossflow Fan Assy	9307836015	
21	Shaft Holder Assy	9306628017	
22	Display Unit	9705382015	
23	Flow Control Panel U	9309991033	
24	Flow Control Panel Z	9309992030	
25	Casing Assy	9311354079	
26	Drain Hose	9314147029	
27	Drain Cap	9316177017	

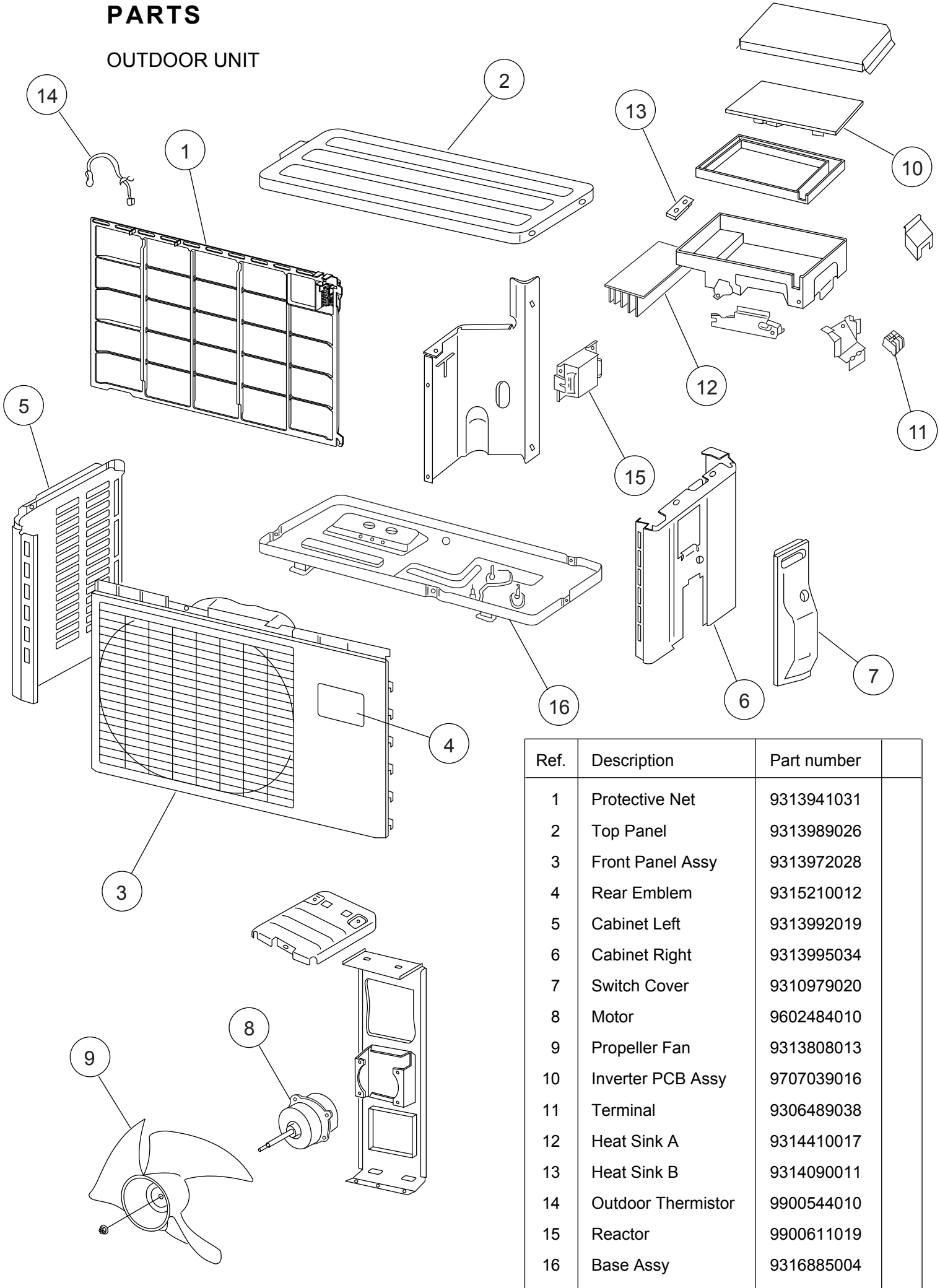
INDOOR UNIT



Ref.	Description	Part number	
31	Evaporator Sub Assy	9313098018 (= 9313098100)	
32	Joint Pipe Assy	9331471015	
33	Holder (Evaporator) L	9309982017	
34	Holder (Evaporator) R	9309983014	

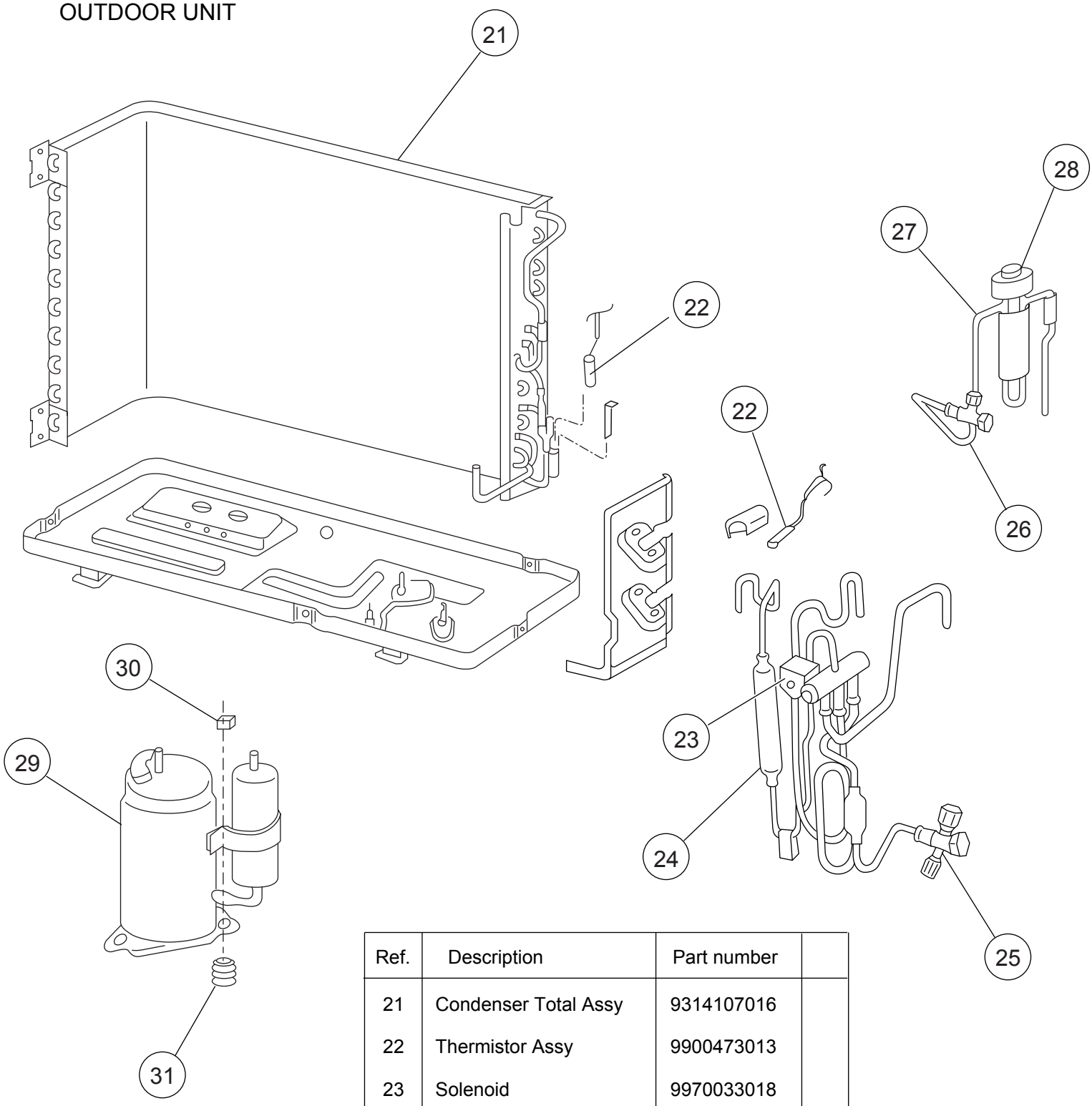
PARTS

OUTDOOR UNIT



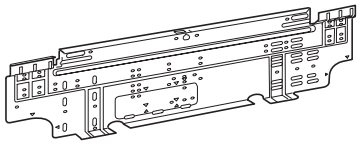
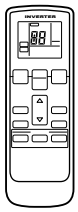
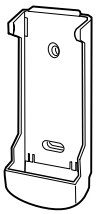
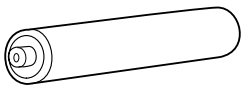
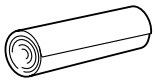
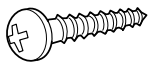
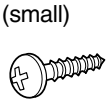
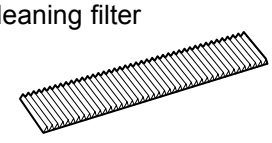
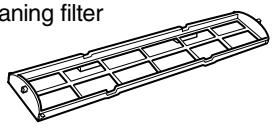
Ref.	Description	Part number	
1	Protective Net	9313941031	
2	Top Panel	9313989026	
3	Front Panel Assy	9313972028	
4	Rear Emblem	9315210012	
5	Cabinet Left	9313992019	
6	Cabinet Right	9313995034	
7	Switch Cover	9310979020	
8	Motor	9602484010	
9	Propeller Fan	9313808013	
10	Inverter PCB Assy	9707039016	
11	Terminal	9306489038	
12	Heat Sink A	9314410017	
13	Heat Sink B	9314090011	
14	Outdoor Thermistor	9900544010	
15	Reactor	9900611019	
16	Base Assy	9316885004	
--	Drain Pipe Assy	9303029022	

OUTDOOR UNIT



Ref.	Description	Part number	
21	Condenser Total Assy	9314107016	
22	Thermistor Assy	9900473013	
23	Solenoid	9970033018	
24	4-way Valve Assy	9314093012	
25	3-way Valve Assy	9314022012	
26	2-way Valve Assy	9314554018	
27	Pulse Motor Valve Assy	9317620000	
28	Expansion Valve Coil	9900057039	
29	Compressor Assy	9317619004	
30	Nut Special Assy	9313452018	
31	Rubber Cushion	9306410001	

ACCESSORIES

Name and Shape	Part No.
Wall hook bracket 	9310001004
Remote control 	9315027030
Remote control holder 	9305642045
Battery (penlight) 	0600185534
Cloth tape 	9310519004
Tapping screw (big) (ϕ 4 x 25) 	0700076046
Tapping screw (small) (ϕ 3 x 12) 	0700019036
Air cleaning filter 	9312153015 9311925033
Air cleaning filter frame 	9306602017