

SPLIT TYPE
ROOM AIR CONDITIONER
WALL MOUNTED TYPE



SERVICE MANUAL



Indoor unit	Outdoor unit
ASYG14LMCE	AOYG14LMCE

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SPECIFICATIONS

ELECTRICAL DATA

INDOOR UNIT		ASYG14LMCE
OUTDOOR UNIT		AOYG14LMCE
POWER SOURCE		230 V 50 Hz Single phase
Cooling	CAPACITY	4.00 kW
	POWER CONSUMPTION	1.135 kW
	EER	3.52 kW/kW
	RUNNING CURRENT	5.3 A
	MAXIMUM CURRENT	9.0 A
	MOISTURE REMOVAL	2.1 L/h
Heating	CAPACITY	5.00 kW
	POWER CONSUMPTION	1.365 kW
	COP	3.66 kW/kW
	RUNNING CURRENT	6.3 A
	MAXIMUM CURRENT	10.5 A

DIMENSIONS

INDOOR UNIT	H x W x D	270 x 870 x 204 mm
OUTDOOR UNIT	H x W x D	540 x 790 x 290 mm

WEIGHT

INDOOR UNIT	Net / Shipping	8.5 kg / 11 kg
OUTDOOR UNIT	Net / Shipping	34 kg / 37 kg

FAN MOTOR

INDOOR UNIT'S Discrimination		MFD-12CYBL
OUTDOOR UNIT'S Discrimination		MFE-40VVL
INDOOR UNIT Cooling	High	1,360 rpm
	Medium	1,220 rpm
	Low	990 rpm
	Quiet	750 rpm
INDOOR UNIT Heating	High	1,360 rpm
	Medium	1,220 rpm
	Low	1,040 rpm
	Quiet	770 rpm
OUTDOOR UNIT Cooling		850 rpm
OUTDOOR UNIT Heating		750 rpm

AIRFLOW

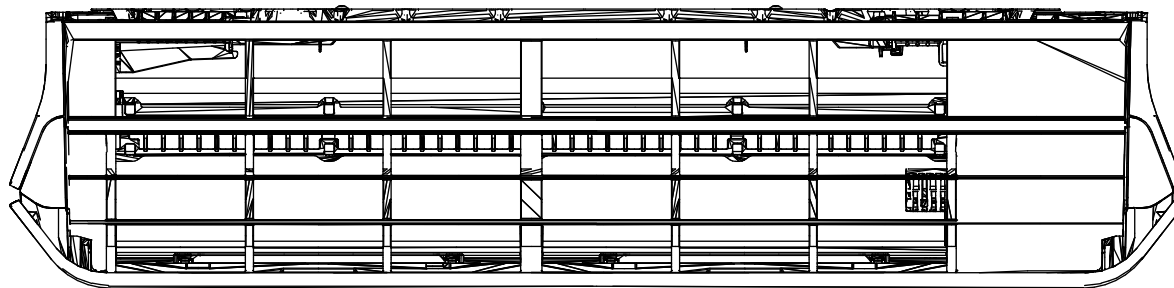
INDOOR UNIT Cooling	High	770 m ³ /h
	Medium	680 m ³ /h
	Low	530 m ³ /h
	Quiet	360 m ³ /h
INDOOR UNIT Heating	High	770 m ³ /h
	Medium	680 m ³ /h
	Low	560 m ³ /h
	Quiet	380 m ³ /h
OUTDOOR UNIT Cooling		1,940 m ³ /h
OUTDOOR UNIT Heating		1,700 m ³ /h

NOISE LEVEL

INDOOR UNIT Cooling	High	44 dB
	Medium	40 dB
	Low	33 dB
OUTDOOR UNIT Heating	Quiet	25 dB
	High	44 dB
	Medium	40 dB
OUTDOOR UNIT Heating	Low	35 dB
	Quiet	27 dB
OUTDOOR UNIT Cooling		50 dB
OUTDOOR UNIT Heating		50 dB

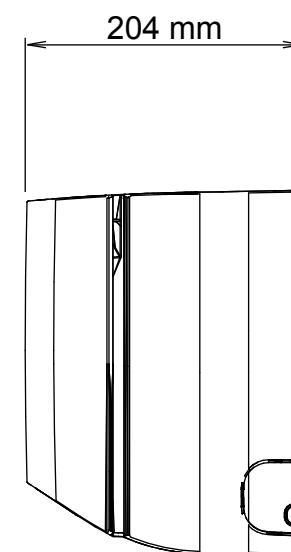
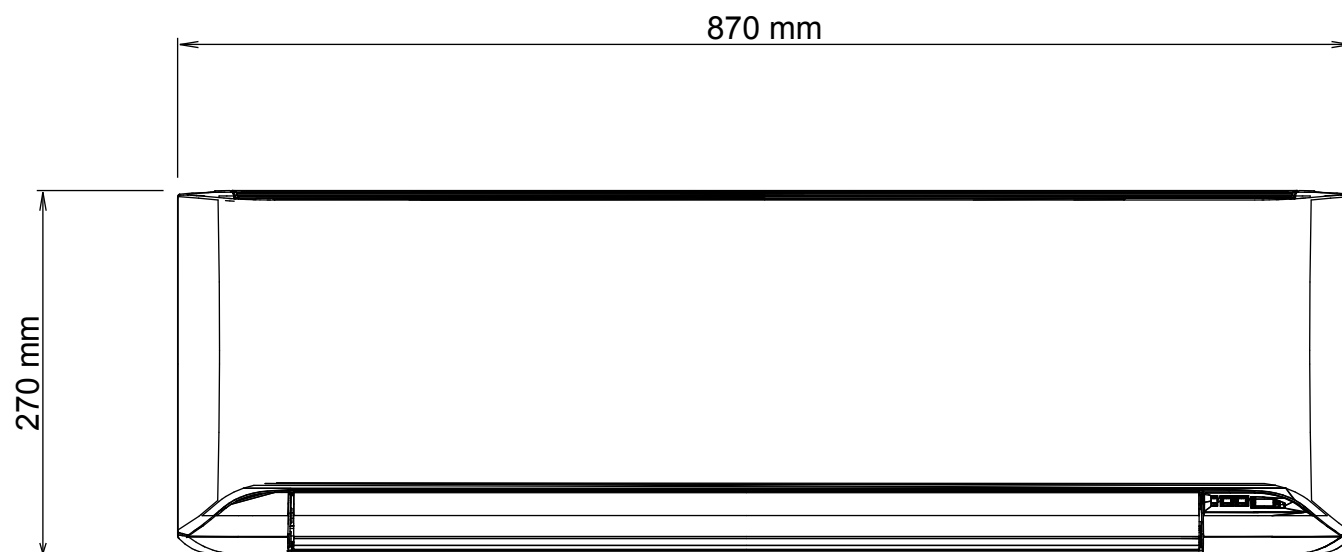
COMPRESSOR AND REFRIGERANT

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

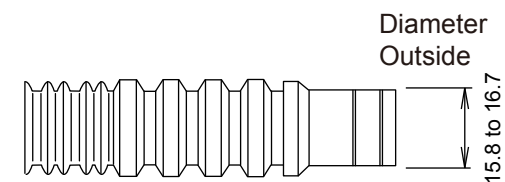
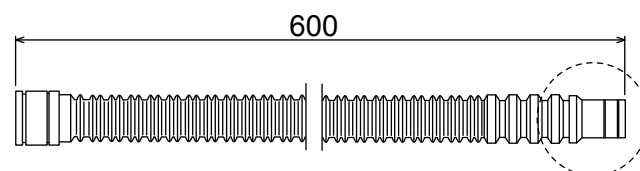


DIMENSIONS

INDOOR UNIT

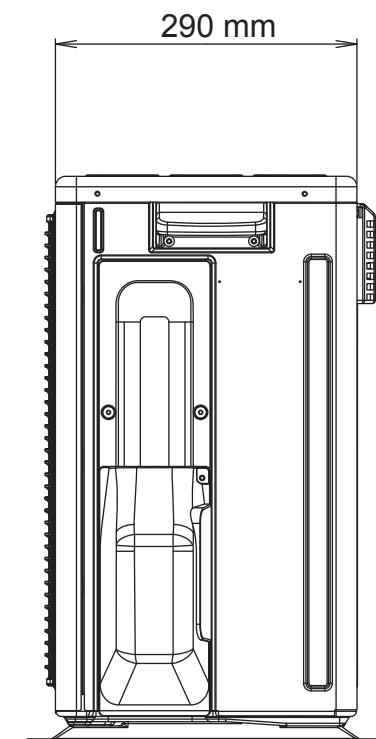
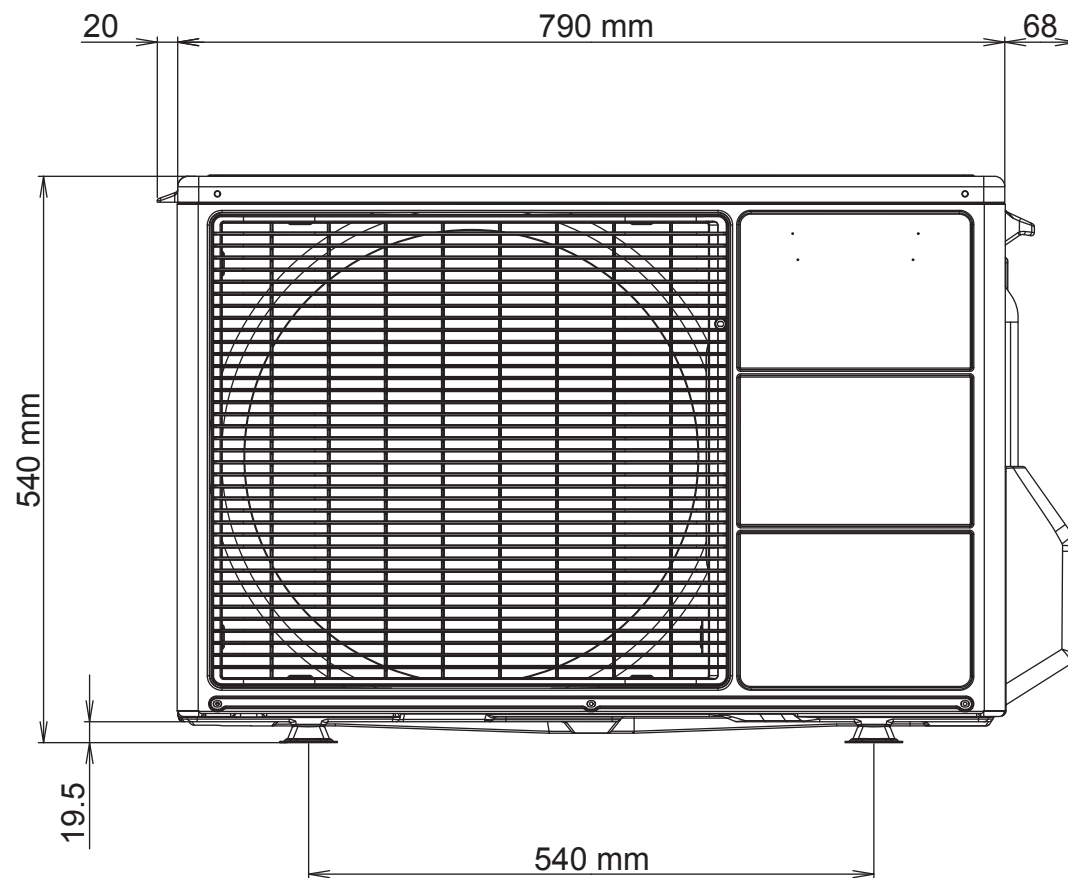


Drain hose

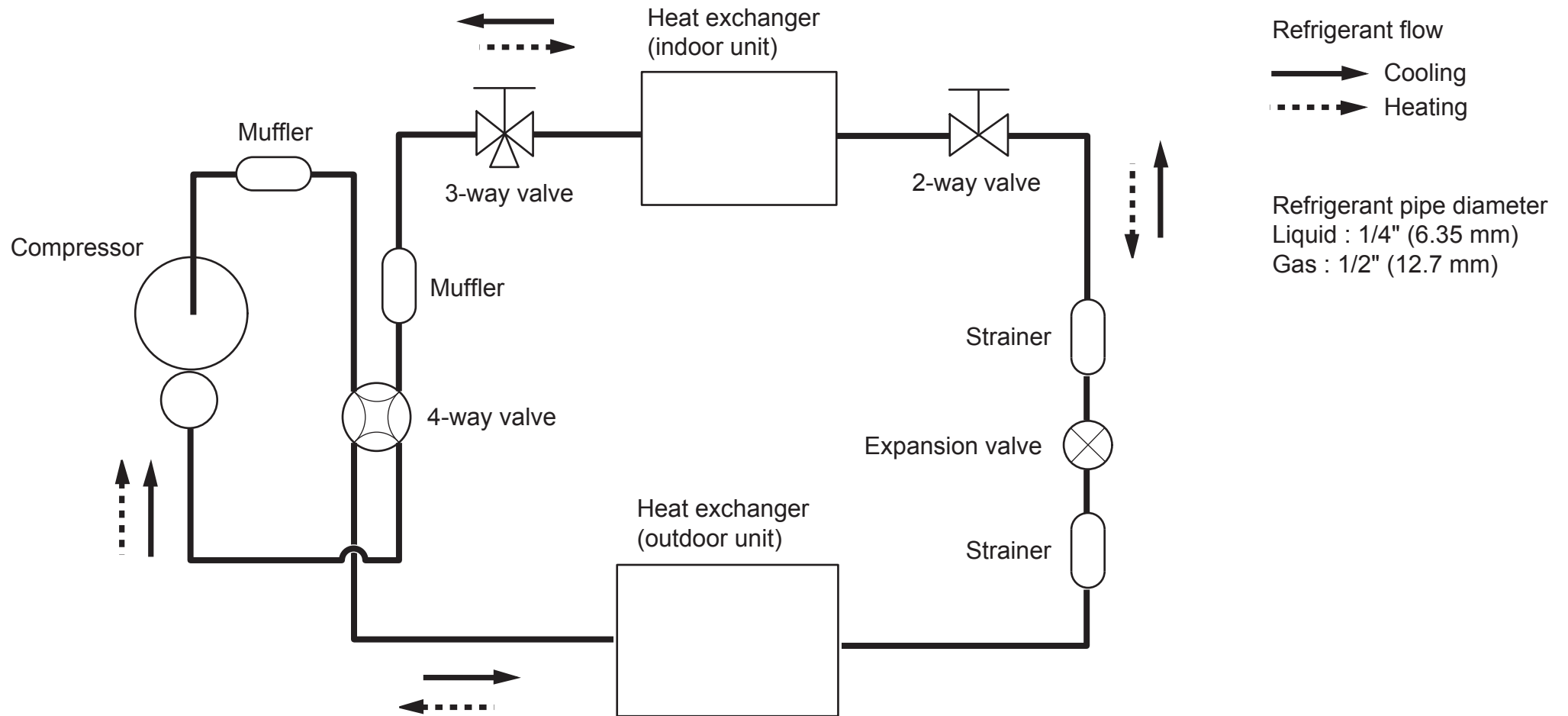


Inside : 13.8 mm

OUTDOOR UNIT

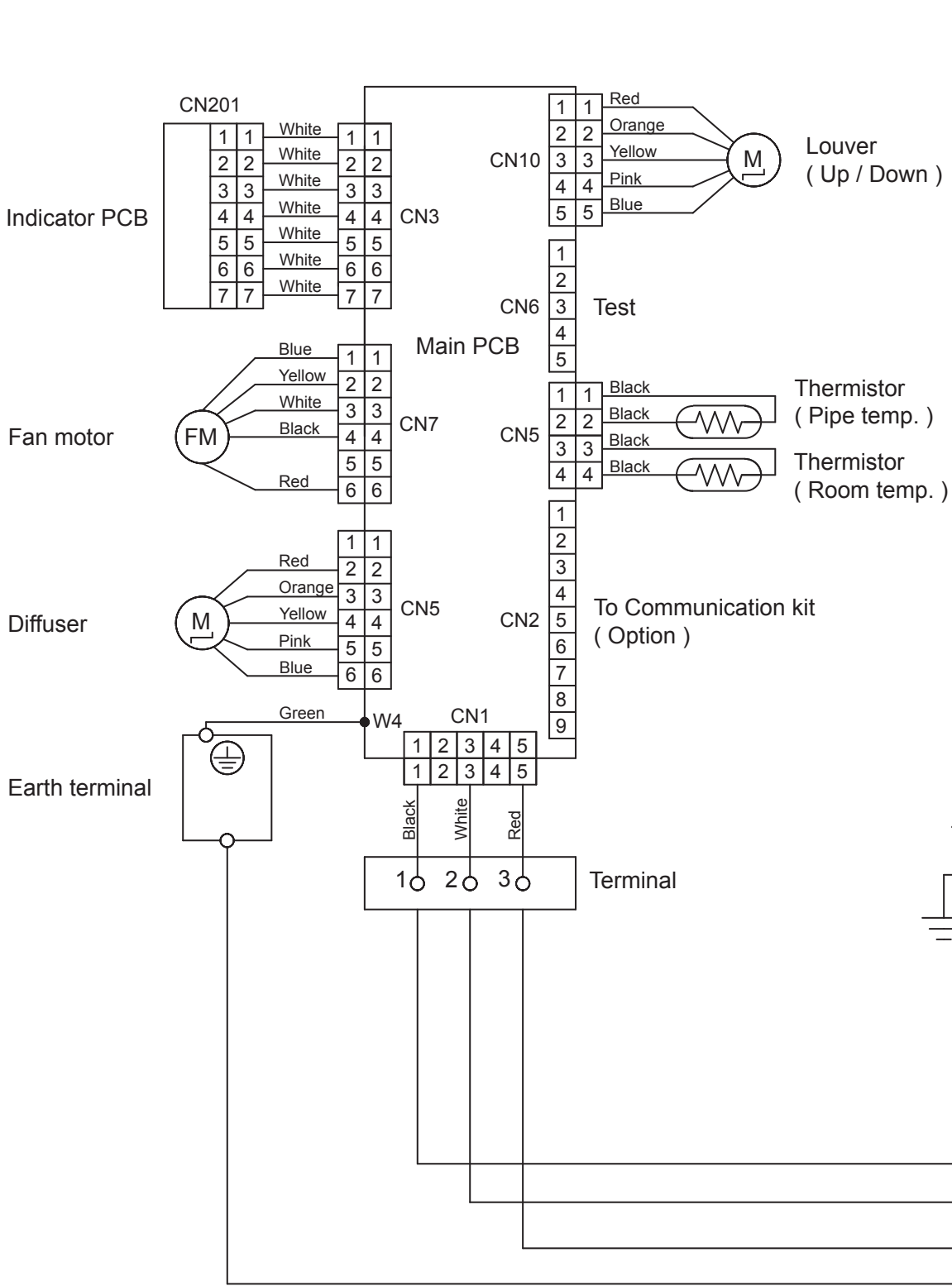


REFRIGERANT SYSTEM DIAGRAM

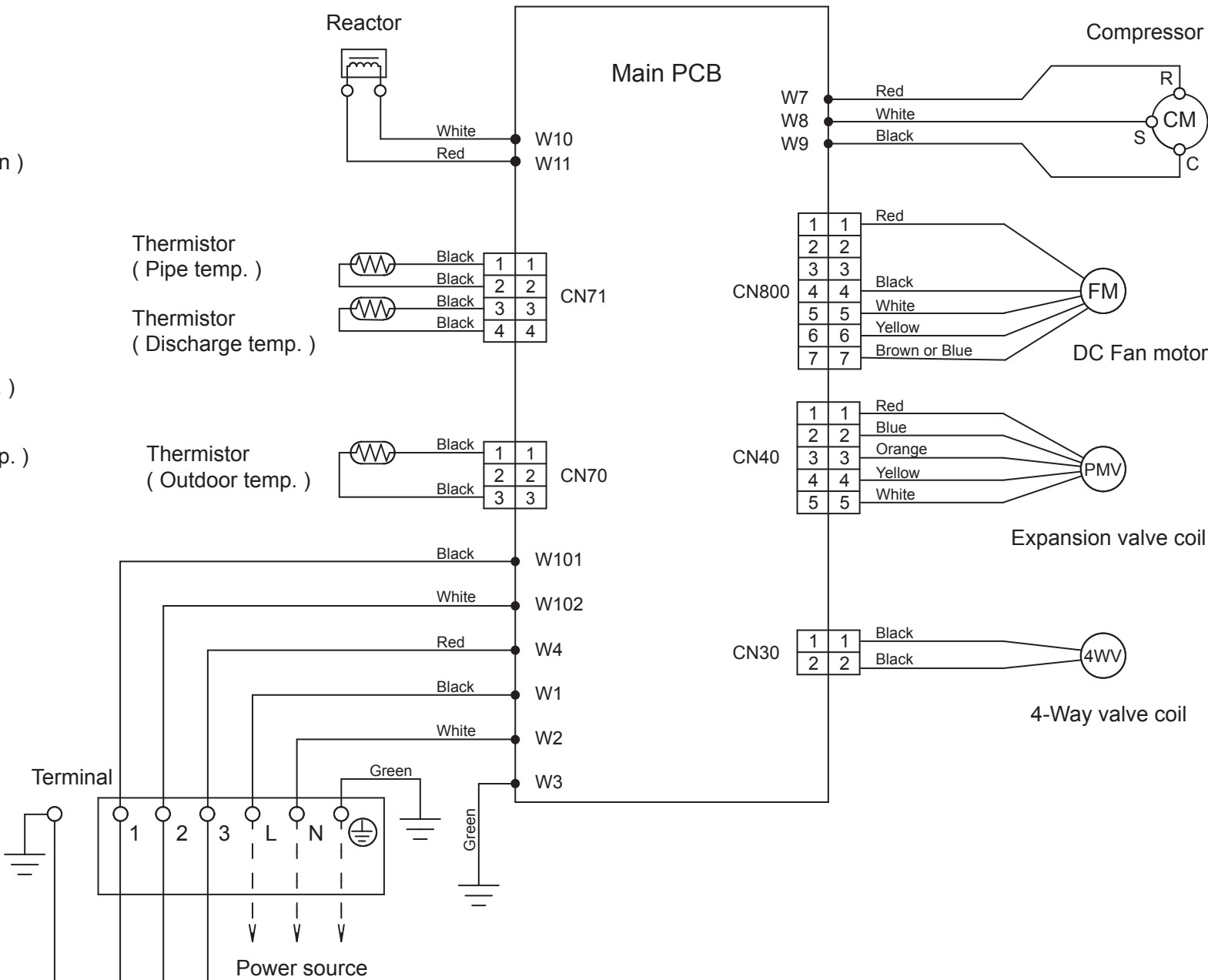


CIRCUIT DIAGRAM

INDOOR UNIT



OUTDOOR UNIT



PCB CIRCUIT DIAGRAM

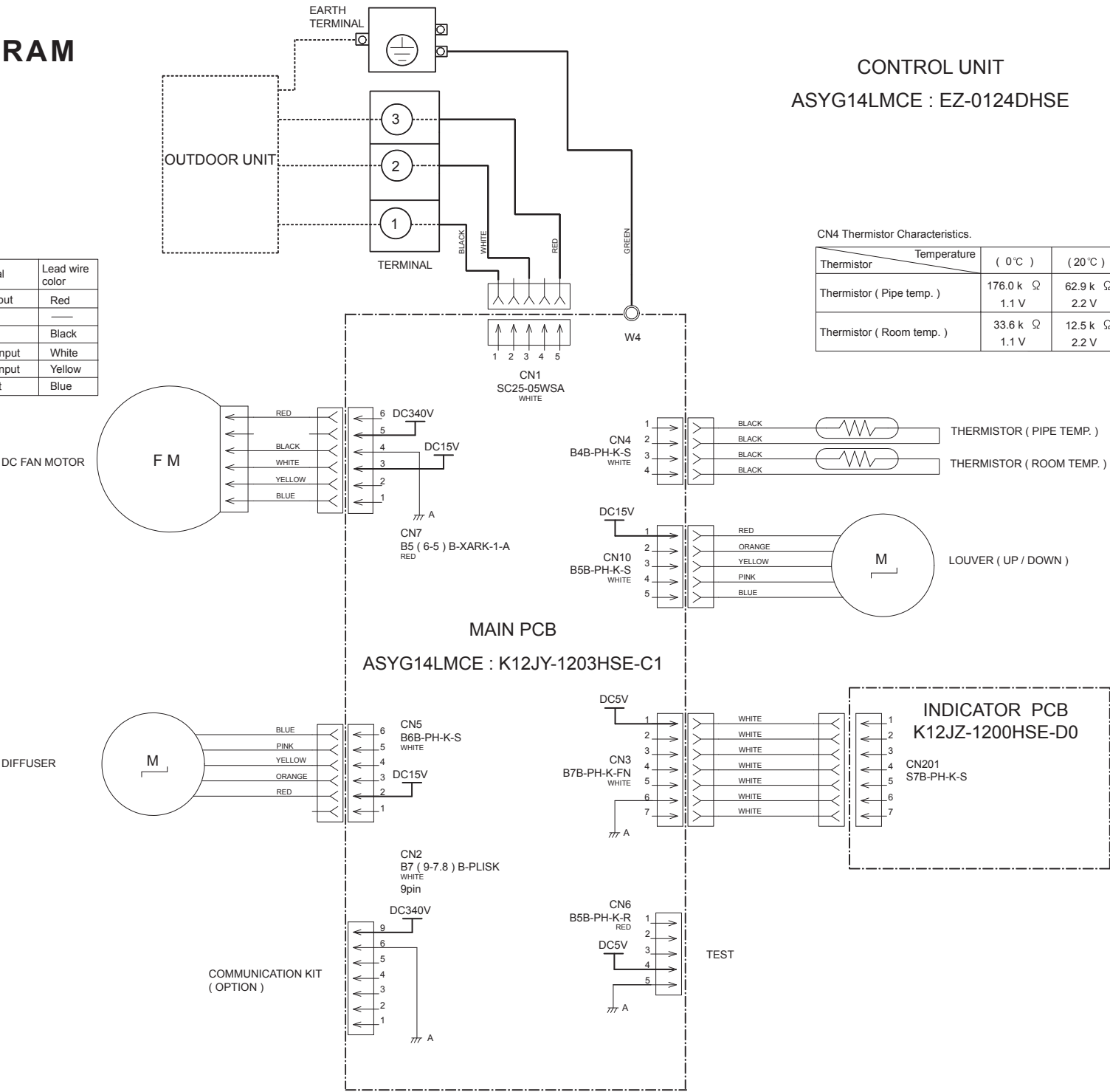
CN7 DC Fan motor

Pin No.	Terminal code	Function of terminal	Lead wire color
6	Vm	Motor power voltage input	Red
5	—	—	—
4	GND	GND	Black
3	Vcc	Control power voltage input	White
2	Vsp	Speed control voltage input	Yellow
1	PG	Revolution pulse output	Blue

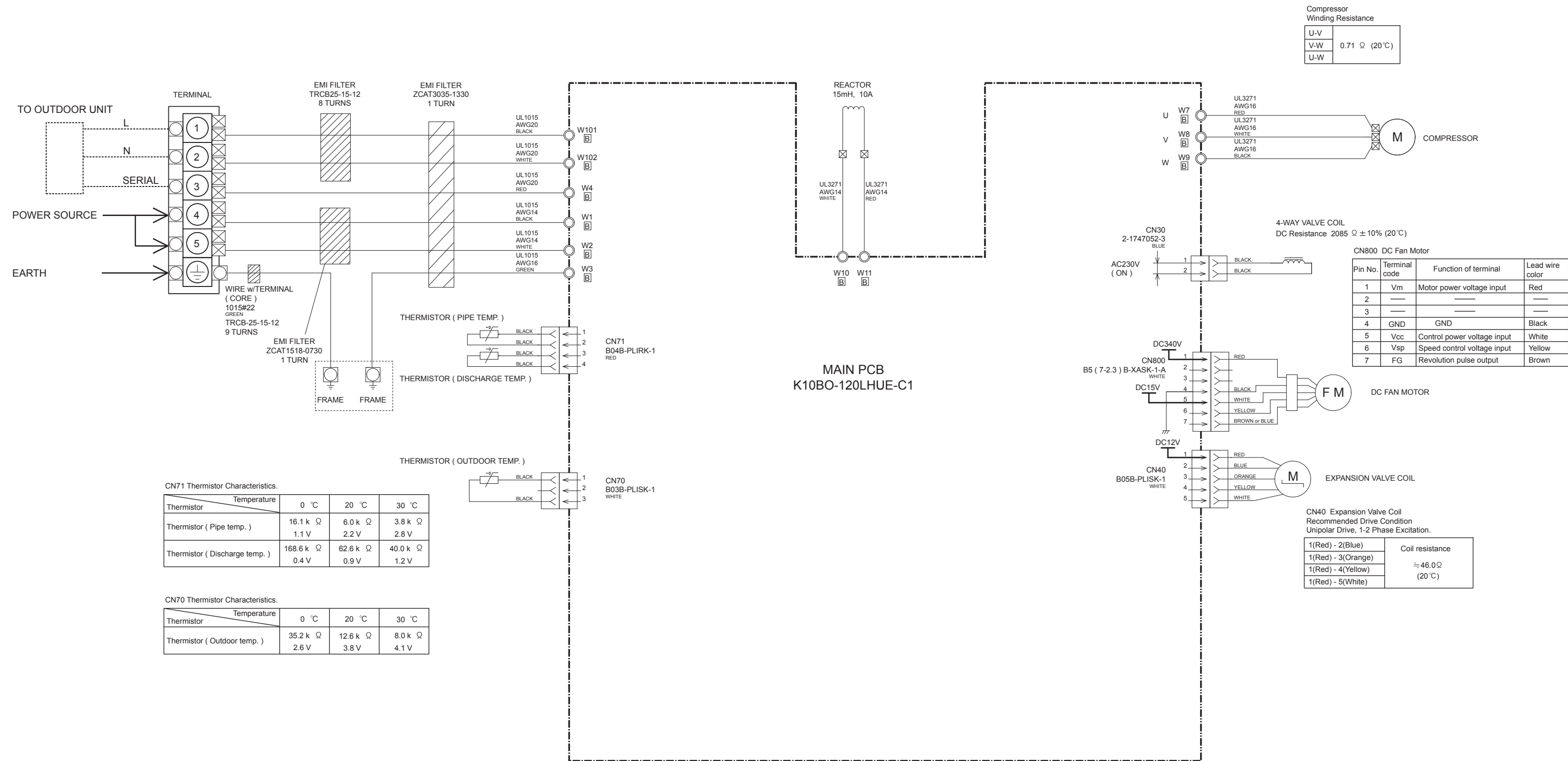
CONTROL UNIT
ASYG14LMCE : EZ-0124DHSE

CN4 Thermistor Characteristics.

Thermistor	Temperature	(0℃)	(20℃)	(30℃)
Thermistor (Pipe temp.)		176.0 k Ω	62.9 k Ω	39.6 k Ω
		1.1 V	2.2 V	2.8 V
Thermistor (Room temp.)		33.6 k Ω	12.5 k Ω	8.0 k Ω
		1.1 V	2.2 V	2.8 V



AOYG14LMCE
INVERTER ASSEMBLY
EZ-0122DHUE



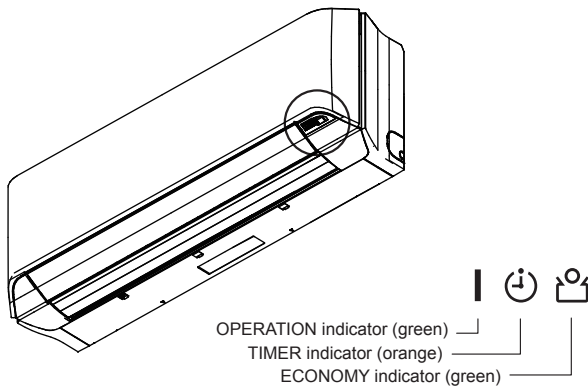
ERROR DETECTION

If you use a wireless remote control, the lamp on the photo detector unit will output error codes by way of blinking patterns.

If you use a wired remote control, error codes will appear on the remote control display. See the lamp blinking patterns and error codes in the table.

An error display is displayed only during operation.

Troubleshooting with the indoor unit display



Troubleshooting with the Wired Remote Control Display (Option)

If an error occurs, the following display will be shown. ("Er" will appear in the set room temperature display.)



Error display			Wired remote controller Error code	Description
OPERATION lamp (green)	TIMER lamp (orange)	ECONOMY lamp (green)		
●(1)	●(1)	◇	11	Serial communication error
●(1)	●(2)	◇	12	Wired remote controller 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	Room 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)	●(8)	◇	58	Intake grille 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
●(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
●(10)	●(4)	◇	A4	High pressure error
●(10)	●(5)	◇	A5	Low pressure error
●(13)	●(2)	◇	J2	Branch boxes error [Flexible Multi]

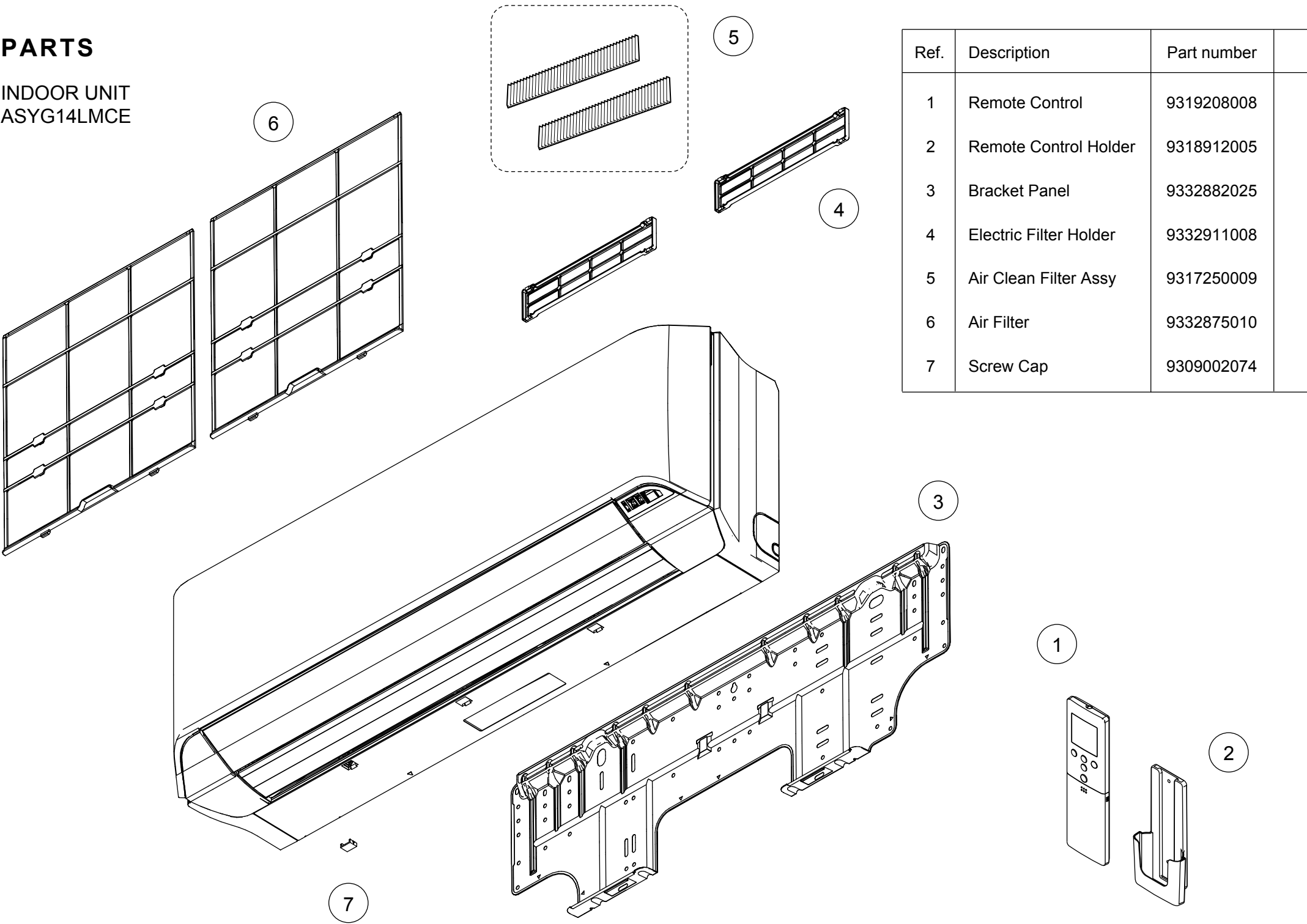
Display mode ● : 0.5s ON / 0.5s OFF
◇ : 0.1s ON / 0.1s OFF
() : Number of flashing

OUTDOOR UNIT

Indicator lamp	Error
on	Discharge temperature error
0.5 second on / 0.5 second off	IPM overcurrent protection
0.1 second on / 0.1 second off	Thermistor error
2.0 second on / 2.0 second off	CT error
0.1 second on / 2.0 second off	Compressor location error
5.0 second on / 5.0 second off	Fan error

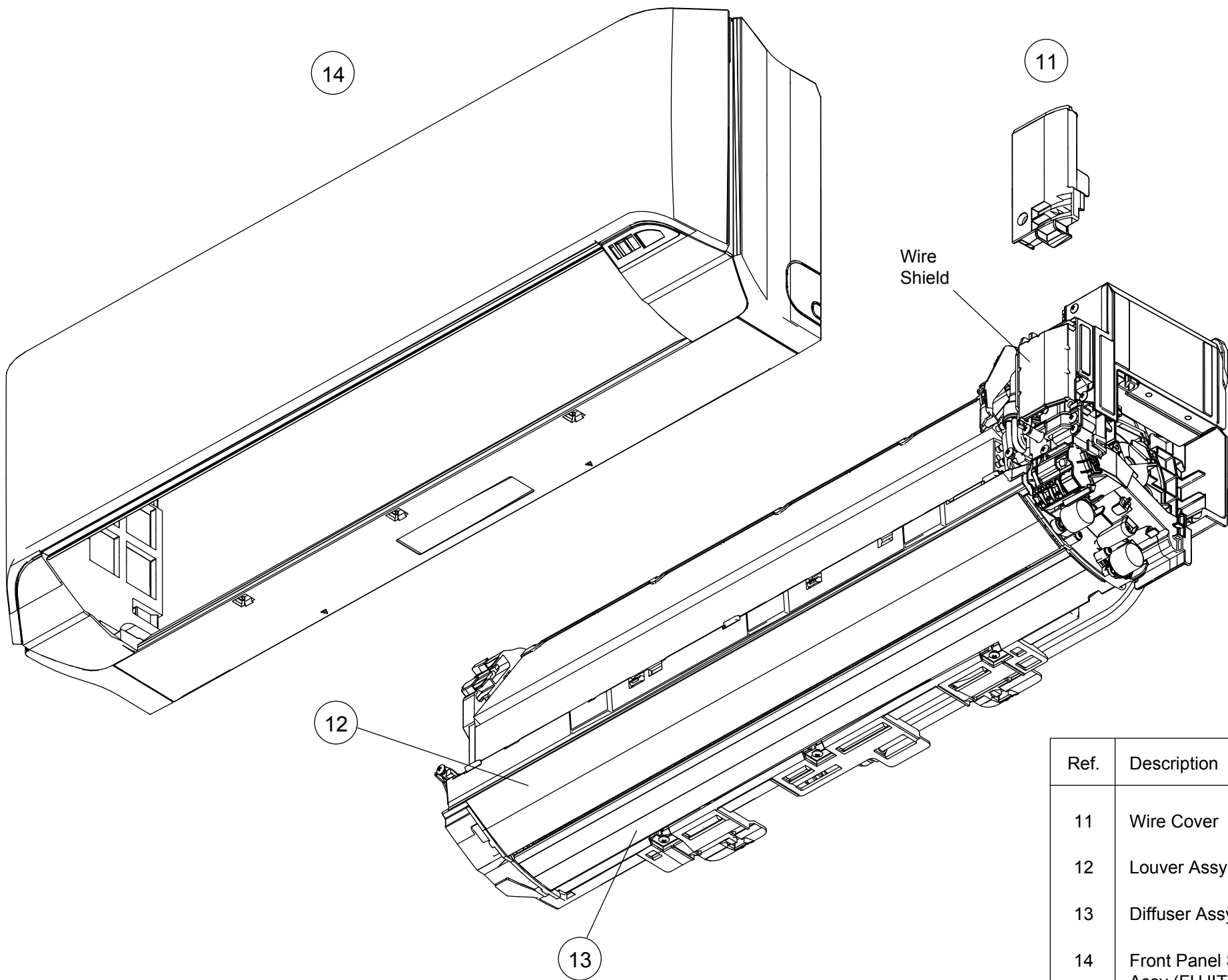
PARTS

INDOOR UNIT
ASYG14LMCE

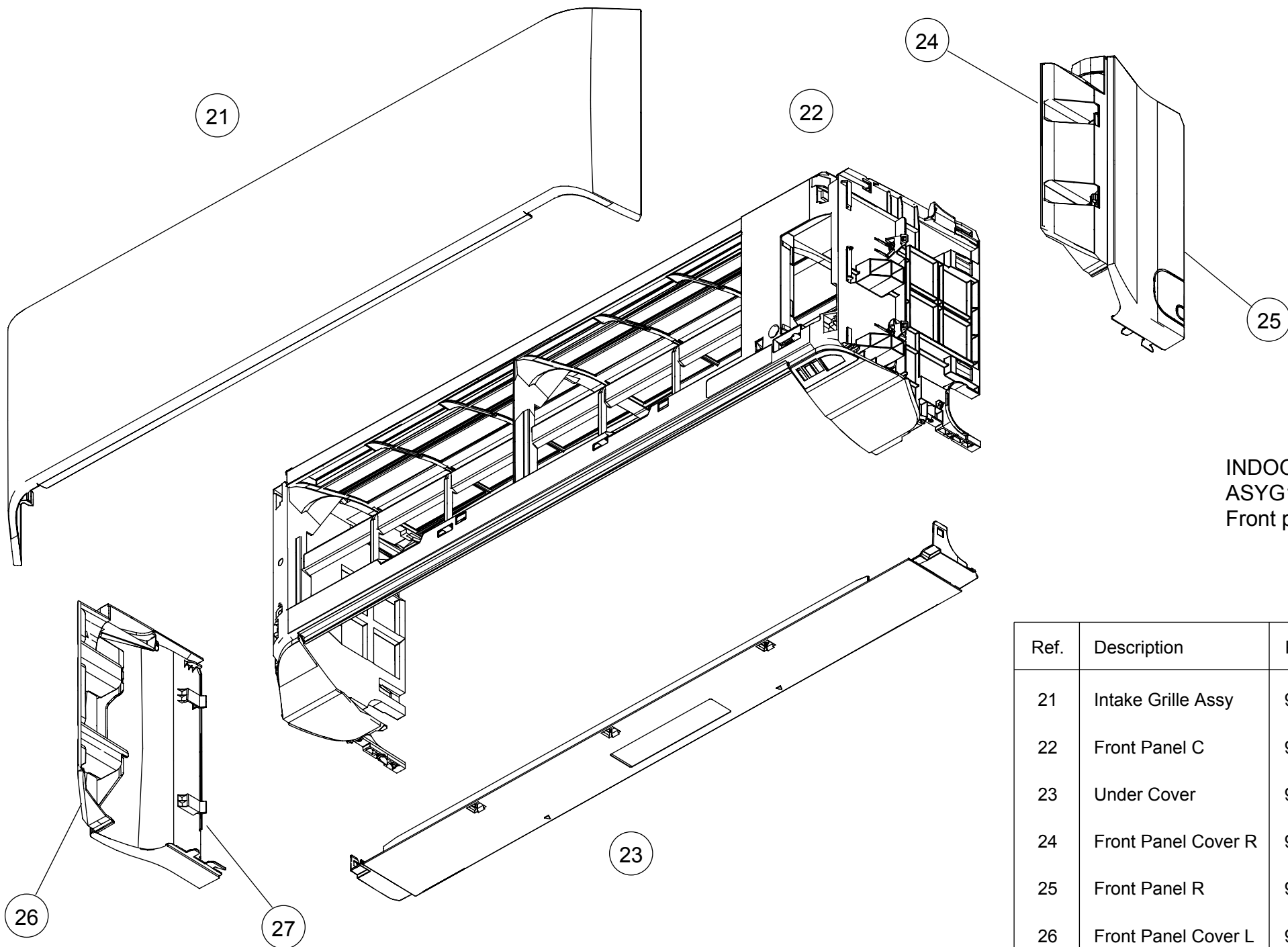


Ref.	Description	Part number	
1	Remote Control	9319208008	
2	Remote Control Holder	9318912005	
3	Bracket Panel	9332882025	
4	Electric Filter Holder	9332911008	
5	Air Clean Filter Assy	9317250009	
6	Air Filter	9332875010	
7	Screw Cap	9309002074	

INDOOR UNIT
ASYG14LMCE

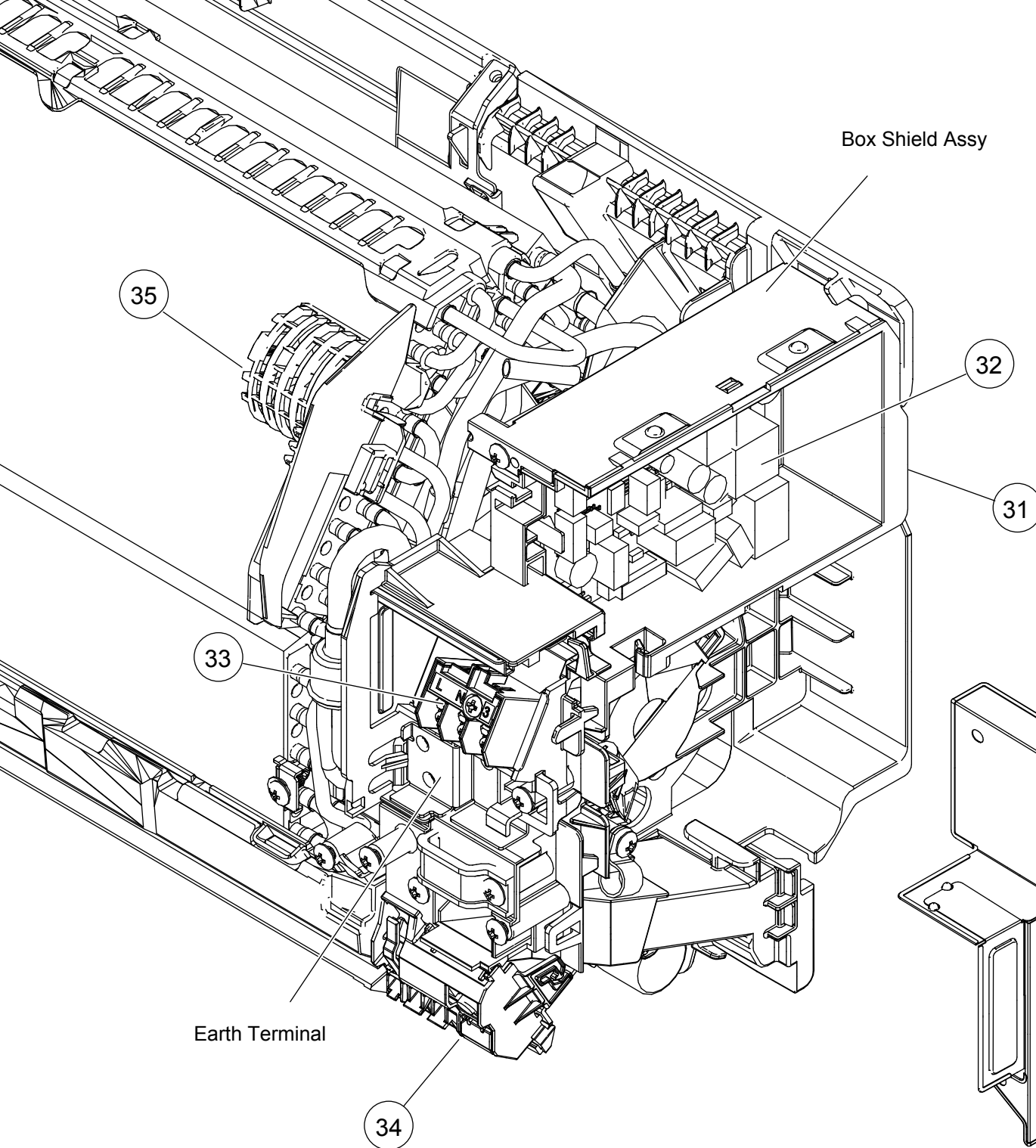


Ref.	Description	Part number	
11	Wire Cover	9333504018	
12	Louver Assy	9333353043	
13	Diffuser Assy	9332998085	
14	Front Panel Sub Assy (FUJITSU)	9333525051	

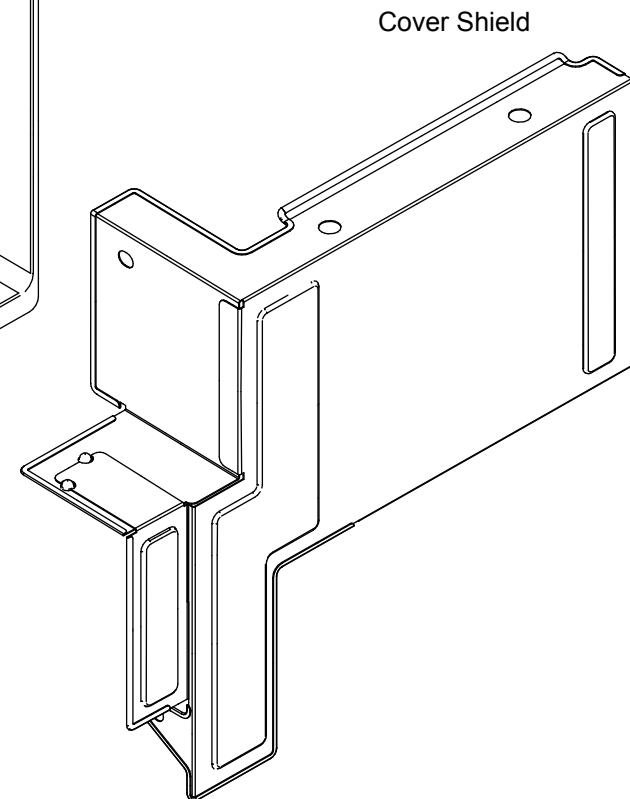


INDOOR UNIT
ASYG14LMCE
Front panel sub assy

Ref.	Description	Part number	
21	Intake Grille Assy	9333526010	
22	Front Panel C	9333497020	
23	Under Cover	9333503011	
24	Front Panel Cover R	9333502014	
25	Front Panel R	9333500003	
26	Front Panel Cover L	9333501017	
27	Front Panel L	9333499000	

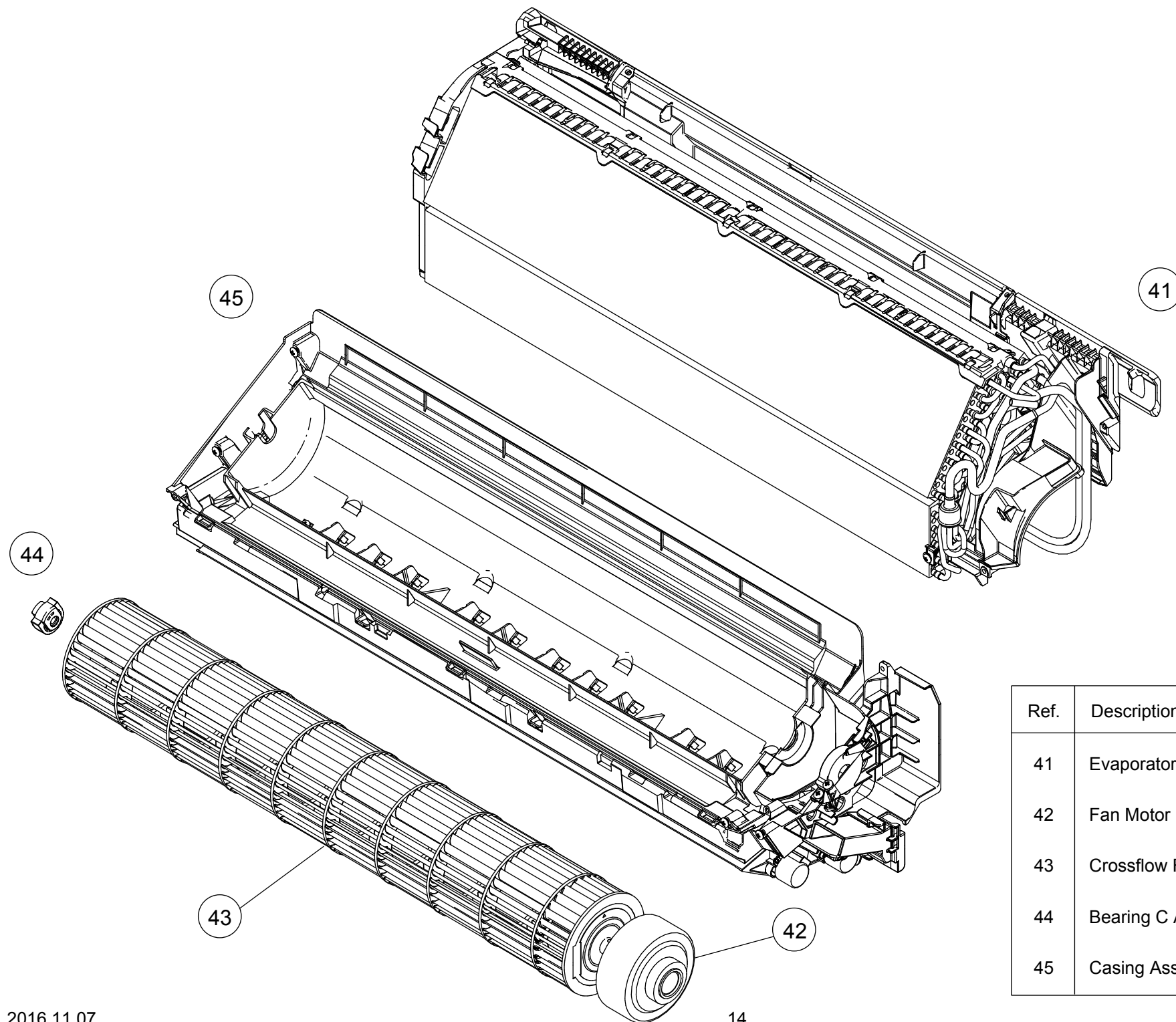


Ref.	Description	Part number
31	Control Box	9332892000
32	Main PCB	9709427040
33	Terminal	9900720001
34	Display Assy	9709430019
35	Room Thermistor Holder	9332868005
--	Thermistor Assy	9900930011



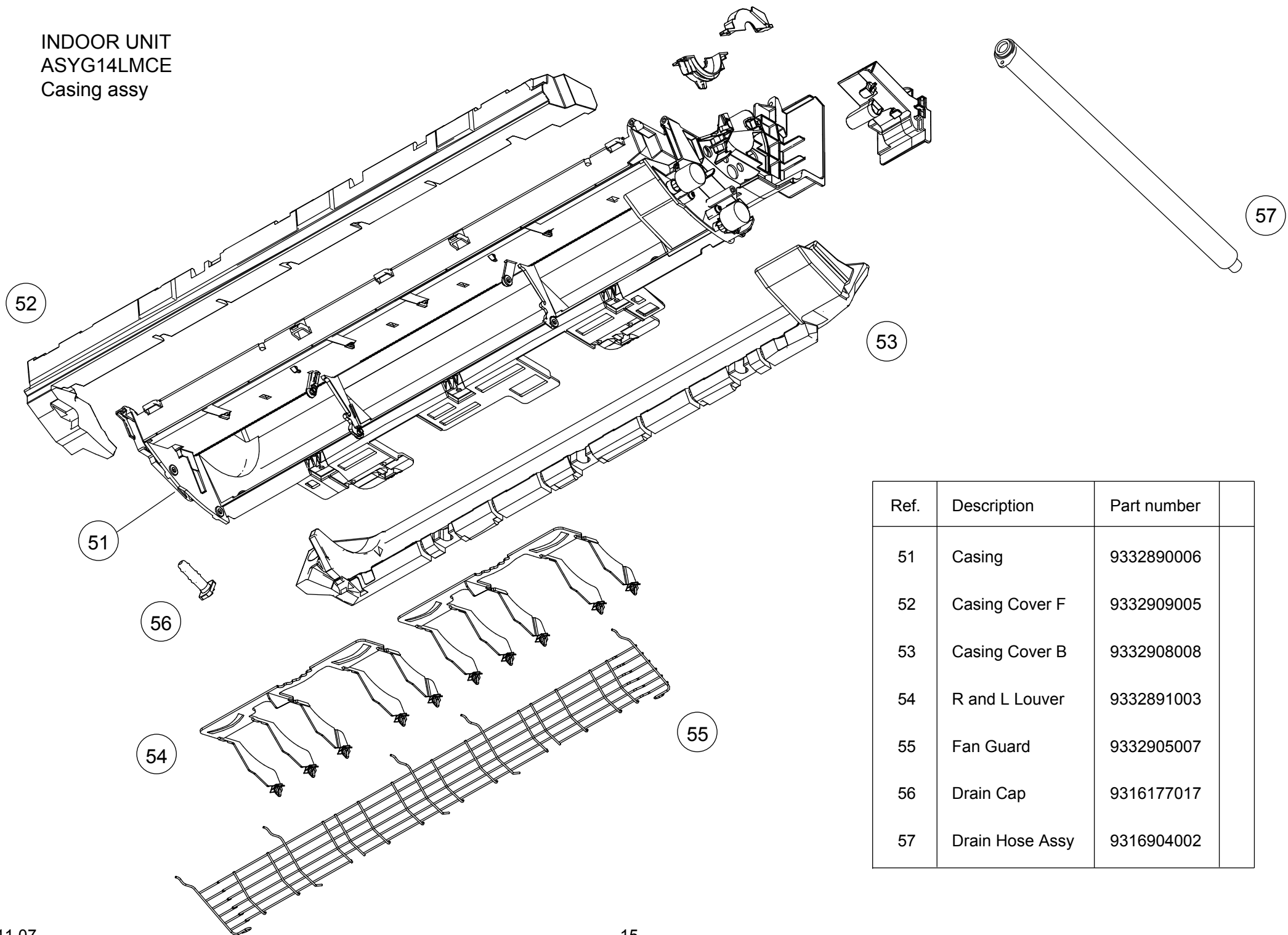
INDOOR UNIT
ASYG14LMCE
Control box

INDOOR UNIT
ASYG14LMCE
Evaporator
Fan



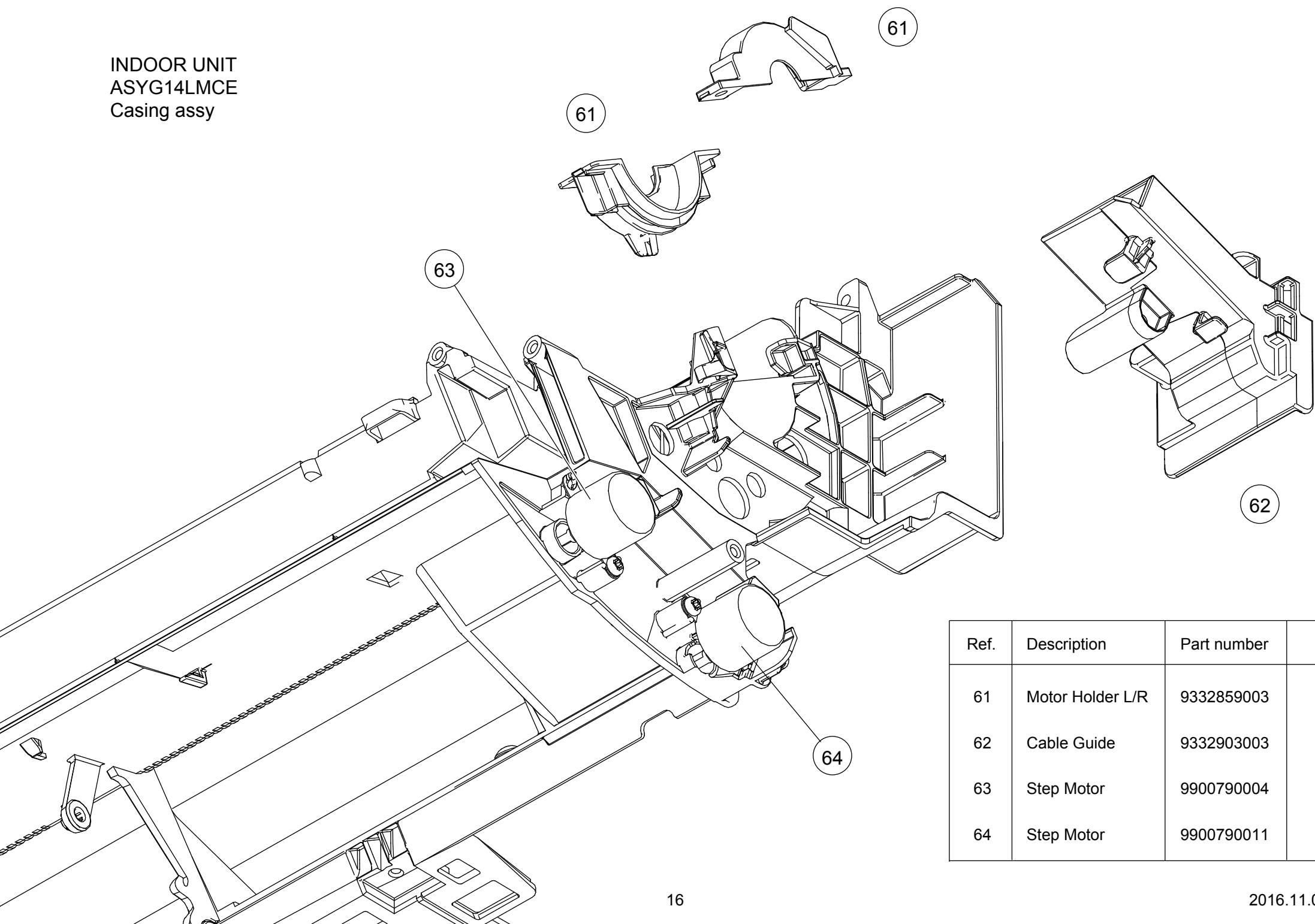
Ref.	Description	Part number	
41	Evaporator Total Assy	9332989113	
42	Fan Motor	9603269005	
43	Crossflow Fan Assy	9316830004	
44	Bearing C Assy	9306628017	
45	Casing Assy	9333009001	

INDOOR UNIT
ASYG14LMCE
Casing assy



Ref.	Description	Part number	
51	Casing	9332890006	
52	Casing Cover F	9332909005	
53	Casing Cover B	9332908008	
54	R and L Louver	9332891003	
55	Fan Guard	9332905007	
56	Drain Cap	9316177017	
57	Drain Hose Assy	9316904002	

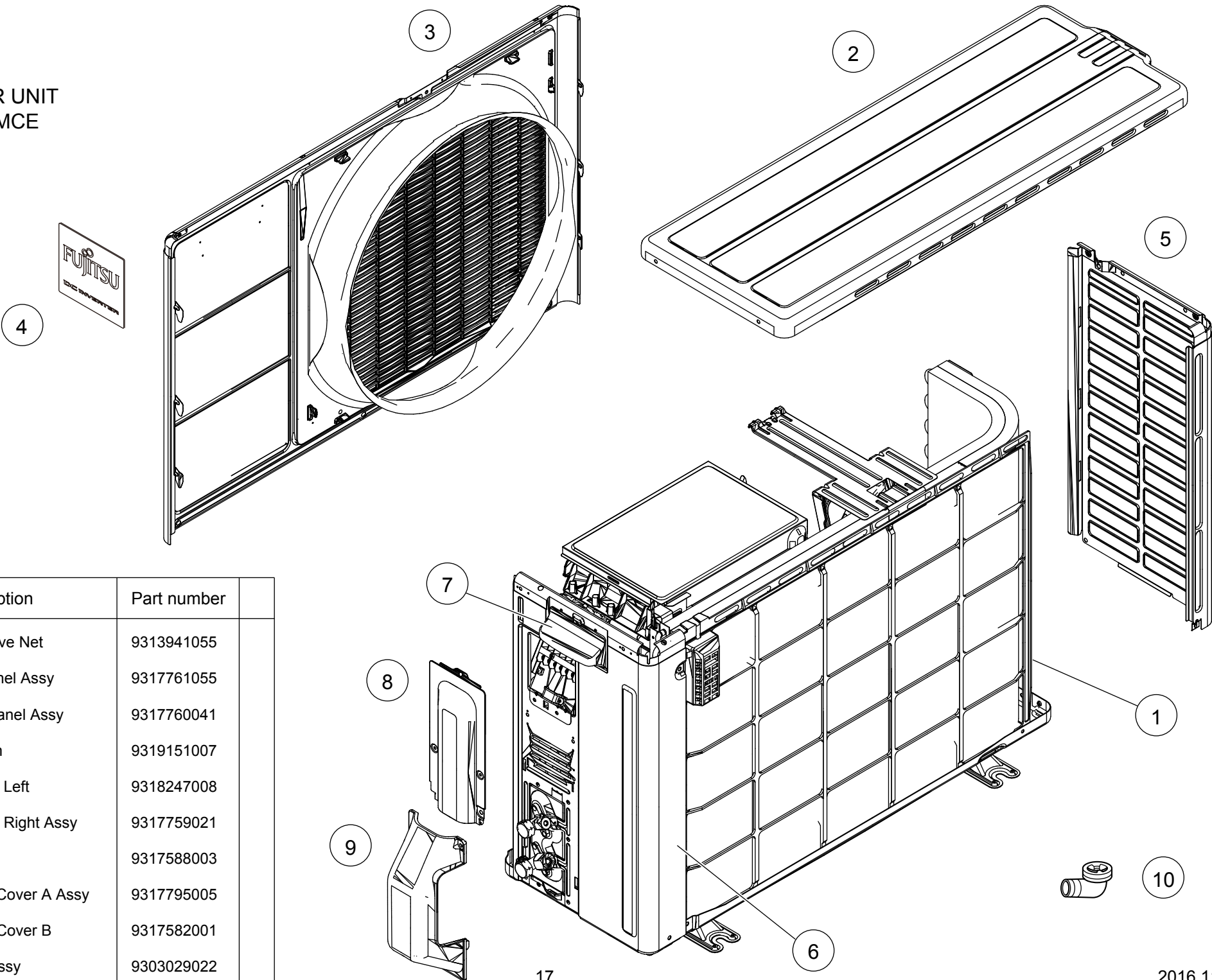
INDOOR UNIT
ASYG14LMCE
Casing assy



Ref.	Description	Part number	
61	Motor Holder L/R	9332859003	
62	Cable Guide	9332903003	
63	Step Motor	9900790004	
64	Step Motor	9900790011	

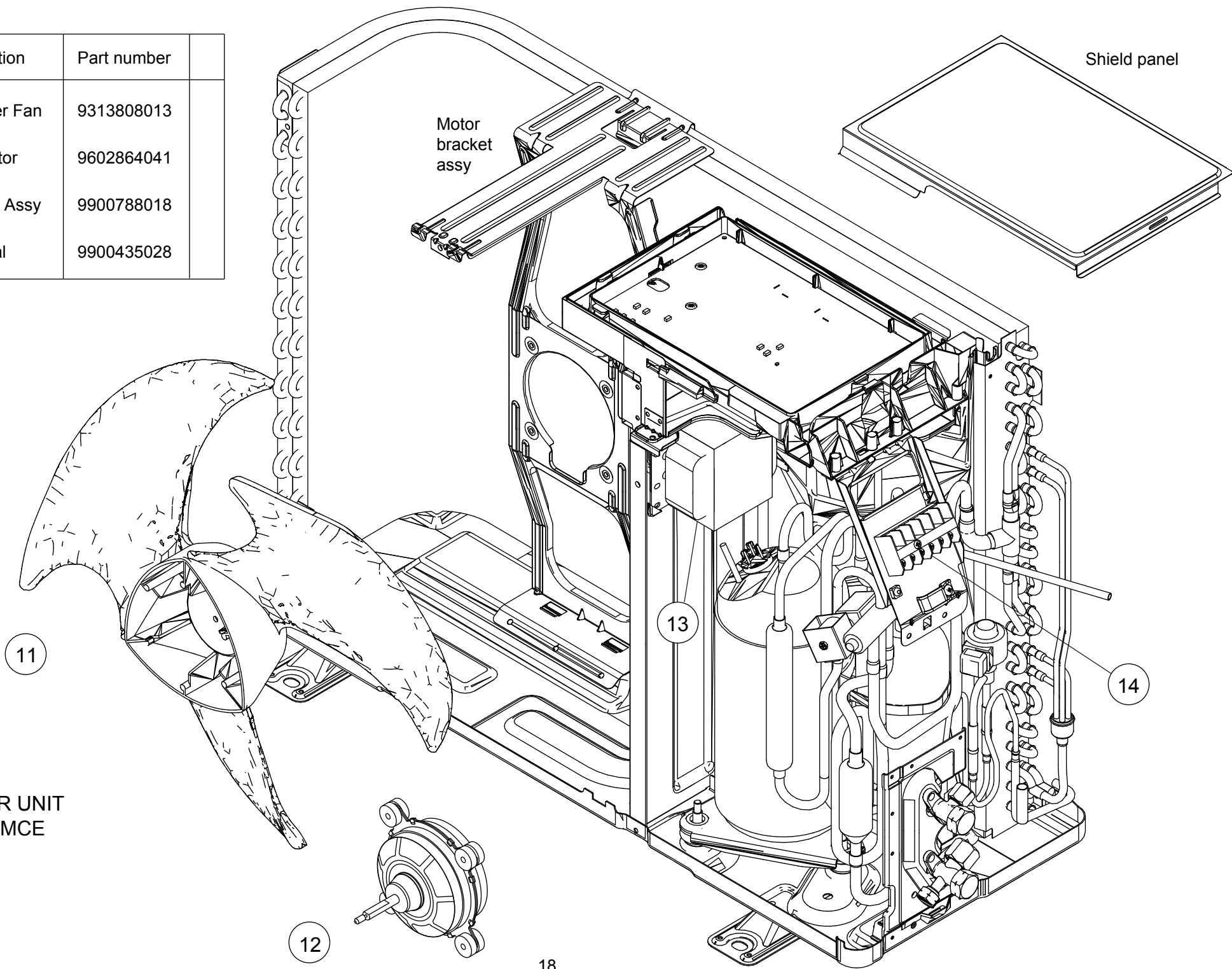
PARTS

OUTDOOR UNIT
AOYG14LMCE

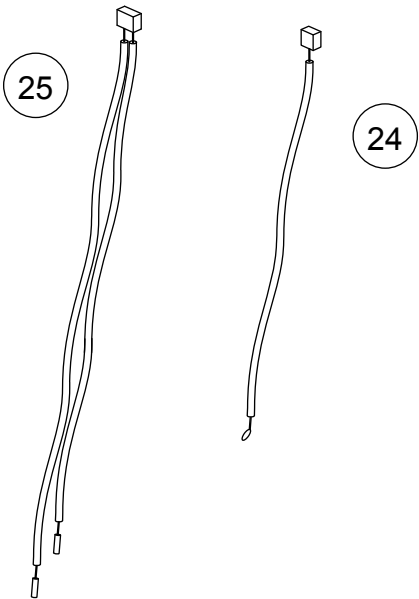
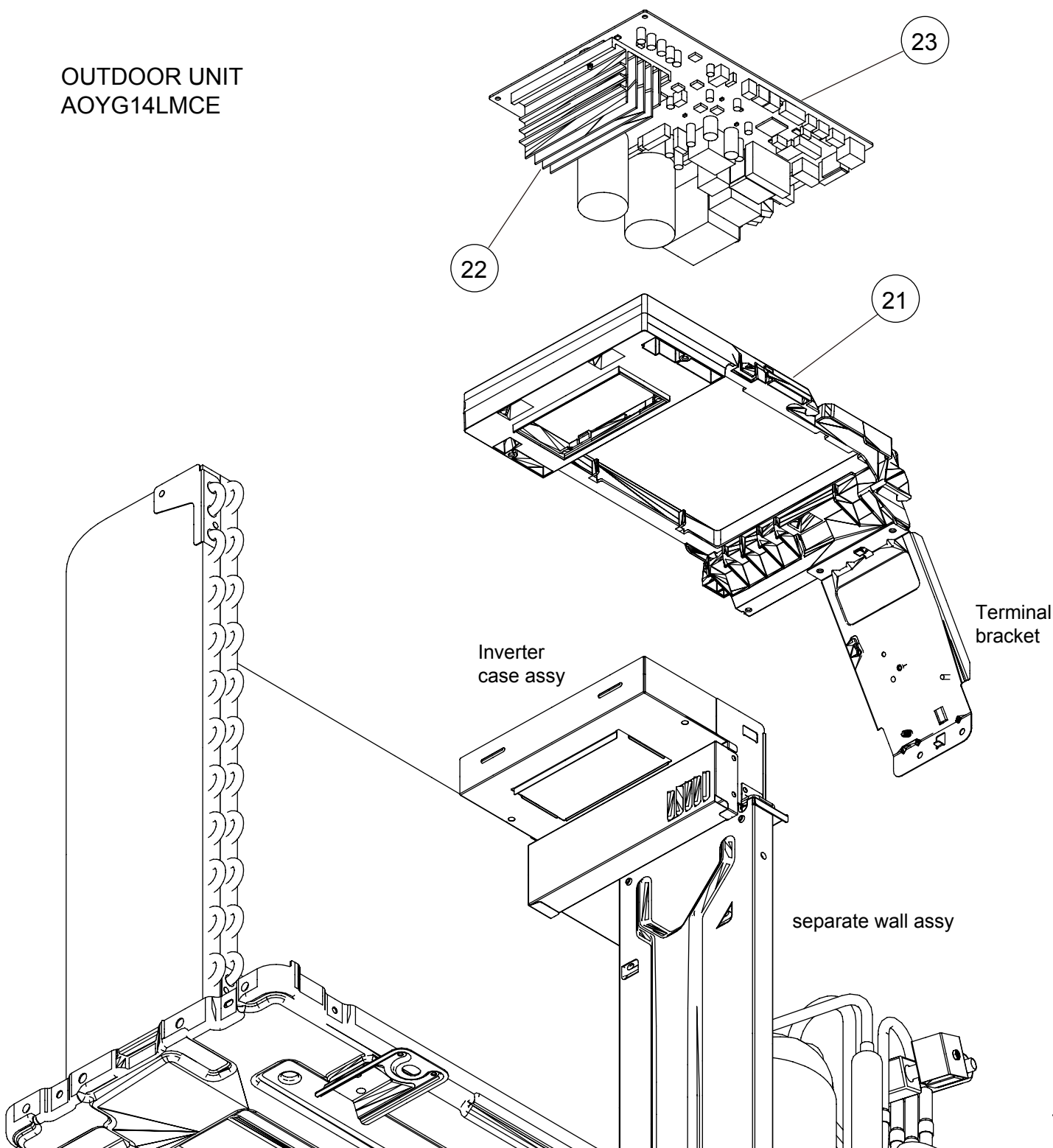


Ref.	Description	Part number
1	Protective Net	9313941055
2	Top Panel Assy	9317761055
3	Front Panel Assy	9317760041
4	Emblem	9319151007
5	Cabinet Left	9318247008
6	Cabinet Right Assy	9317759021
7	Grip	9317588003
8	Switch Cover A Assy	9317795005
9	Switch Cover B	9317582001
10	Drain Assy	9303029022

Ref.	Description	Part number	
11	Propeller Fan	9313808013	
12	Fan Motor	9602864041	
13	Reactor Assy	9900788018	
14	Terminal	9900435028	

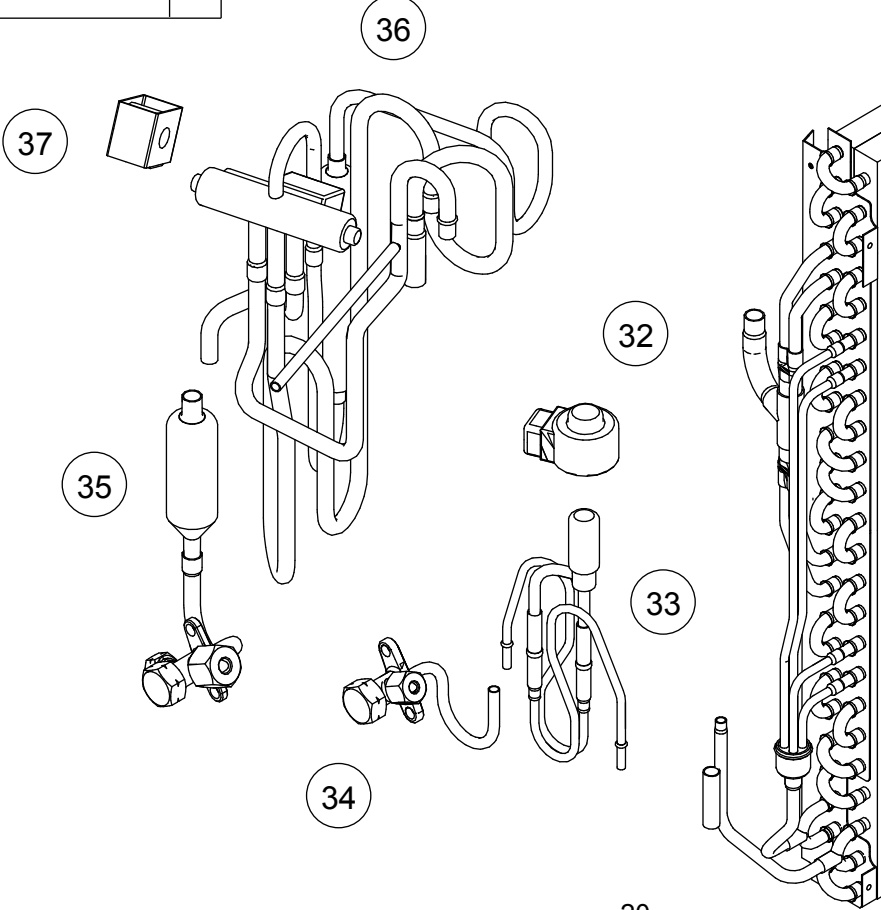
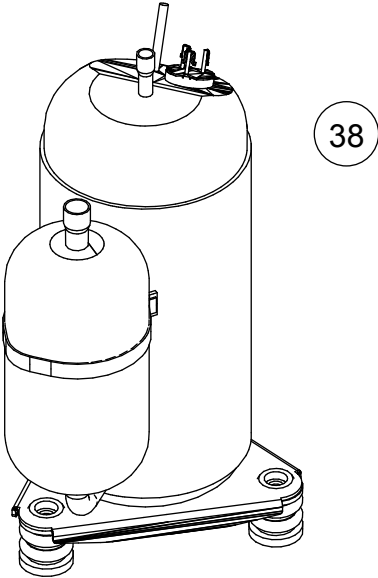


OUTDOOR UNIT
AOYG14LMCE



Ref.	Description	Part number	
21	PCB Holder	9318182002	
22	Heat Sink	9319070001	
23	Main PCB	9708682556	
24	Outdoor Thermistor	9900565008	
25	Thermistor Assy	9900628000	

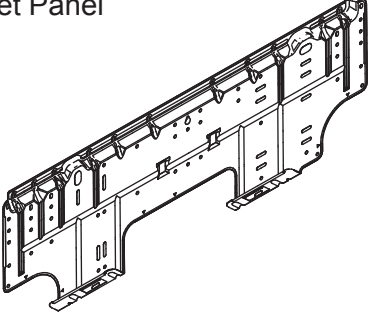
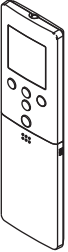
Ref.	Description	Part number	
31	Condenser Total Assy	9332359008	
32	Expansion Valve Coil	9970095030	
33	Pulse Motor Valve Assy	9332368048	
34	2-way Valve Assy	9332371000	
35	3-way Valve Sub Assy	9317109055	
36	4-way Valve Assy	9332365009	
37	Solenoid	9970110023	
38	Compressor Assy	9317619004	

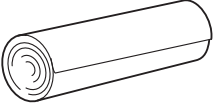
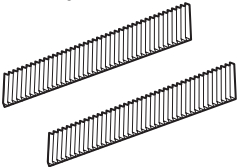
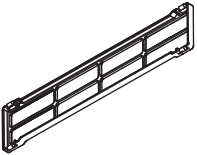


OUTDOOR UNIT
AOYG14LMCE

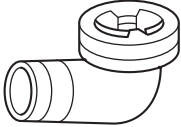
ACCESSORIES

INDOOR UNIT

Name and Shape	Part number
Bracket Panel 	9332882025
Remote Control 	9319208008
Remote Control Holder 	9318912005
Battery (penlight) 	0600185541

Name and Shape	Part number
Cloth tape 	9310519004
Tapping screw (M4 x 25 mm) 	0700076046
Tapping screw (M3 x 12 mm) 	0700019036
Air cleaning filter assy 	9317250009
Filter holder 	9332911008

OUTDOOR UNIT

Name and Shape	Part number
Drain pipe assy 	9303029022

1611G4554