

Split type room air conditioner  
Wall mounted type



# SERVICE MANUAL



Indoor unit	Outdoor unit
ASHG18KLCA	AOHG18KLCA
ASHG24KLCA	AOHG24KLCA

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# SPECIFICATIONS

## ELECTRICAL DATA

INDOOR UNIT		ASHG18KLCA	ASHG24KLCA
OUTDOOR UNIT		AOHG18KLCA	AOHG24KLCA
POWER SUPPLY		230 V 50 Hz Single phase	
Cooling	Capacity	5.20 kW	7.10 kW
	Power consumption	1.685 kW	2.42 kW
	EER	3.09 kW/kW	2.93 kW/kW
	Operating current	7.5 A	10.9 A
	Max operating current	9.5 A	13.5 A
	Dehumidification	1.9 L/h	3.1 L/h
Heating	Capacity	6.30 kW	8.00 kW
	Power consumption	1.80 kW	2.225 kW
	COP	3.50 kW/kW	3.60 kW/kW
	Operating current	8.0 A	10.4 A
	Max operating current	13.5 A	17.5 A

## DIMENSIONS

INDOOR UNIT H x W x D	293 x 790 x 249 mm	
OUTDOOR UNIT H x W x D	542 x 799 x 290 mm	632 x 799 x 290 mm

## WEIGHT

INDOOR UNIT Net / Shipping	9.5 kg / 12.0 kg	10 kg / 12.5 kg
OUTDOOR UNIT Net / Shipping	33 kg / 37 kg	38 kg / 42 kg

## FAN MOTOR AND FAN REVOLUTION

INDOOR UNIT'S Discrimination		MFD-71CXAL	
OUTDOOR UNIT'S Discrimination		MFE-W25VA2F	MFE-S60VD2F
INDOOR UNIT Cooling	High	1,250 rpm	1,480 rpm
	Medium	1,150 rpm	1,270 rpm
	Low	1,010 rpm	1,030 rpm
	Quiet	870 rpm	870 rpm
INDOOR UNIT Heating	High	1,410 rpm	1,480 rpm
	Medium	1,190 rpm	1,190 rpm
	Low	1,050 rpm	1,040 rpm
	Quiet	910 rpm	920 rpm
OUTDOOR UNIT	Cooling	920 rpm	1,050 rpm
	Heating	1,120 rpm	1,100 rpm

## AIRFLOW

INDOOR UNIT Cooling	High	865 m³/h	1,040 m³/h
	Medium	780 m³/h	880 m³/h
	Low	665 m³/h	685 m³/h
	Quiet	555 m³/h	555 m³/h
INDOOR UNIT Heating	High	995 m³/h	1,040 m³/h
	Medium	810 m³/h	810 m³/h
	Low	700 m³/h	695 m³/h
	Quiet	590 m³/h	585 m³/h
OUTDOOR UNIT	Cooling	1,830 m³/h	2,885 m³/h
	Heating	2,265 m³/h	3,030 m³/h

## NOISE LEVEL

INDOOR UNIT Cooling	High	47 dB	51 dB
	Medium	44 dB	45 dB
	Low	40 dB	38 dB
	Quiet	35 dB	33 dB
INDOOR UNIT Heating	High	50 dB	52 dB
	Medium	45 dB	45 dB
	Low	41 dB	41 dB
	Quiet	37 dB	37 dB
OUTDOOR UNIT	Cooling	50 dB	55 dB
	Heating	56 dB	57 dB

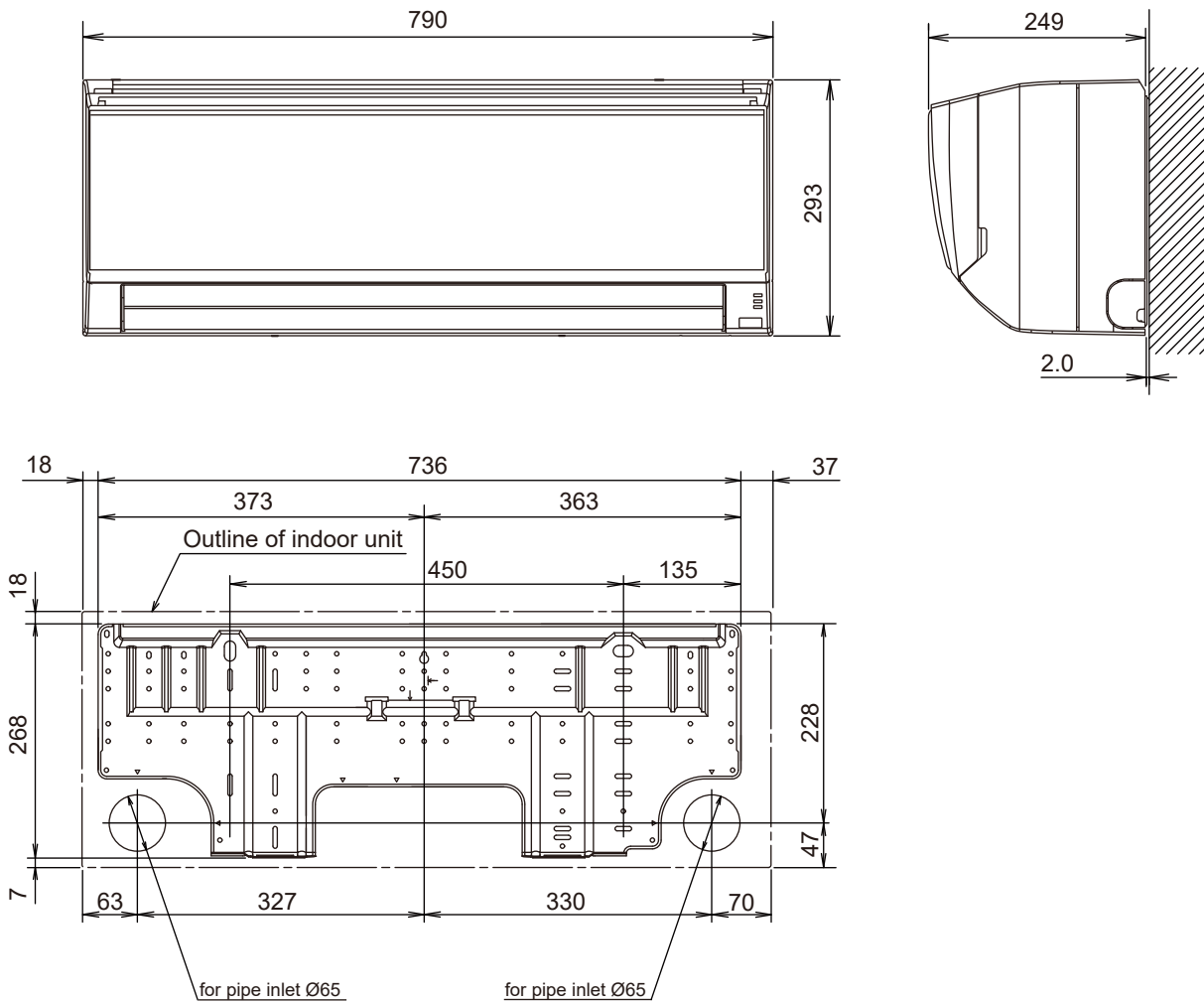
## COMPRESSOR AND REFRIGERANT

COMPRESSOR TYPE		Hermetic motor compressor, 2-cylinder rotary compressor, Brushless DC motor, 6 poles	
DISCRIMINATION		SVB130FHDMC	N-SG15ND2C
WEIGHT (with oil)		8.7 kg	10.0 kg
PRECHARGED REFRIGERANT		850 g	1,100 g
REFRIGERANT TYPE		R32	R32
FULL CHARGE	Pipe length	15 m	850 g
		20 m	950 g
		25 m	1,050 g
		30 m	not available
ADDITIONAL CHARGE		20 g/m	20 g/m
MAX PIPING HEIGHT DIFFERENCE		20 m	25 m

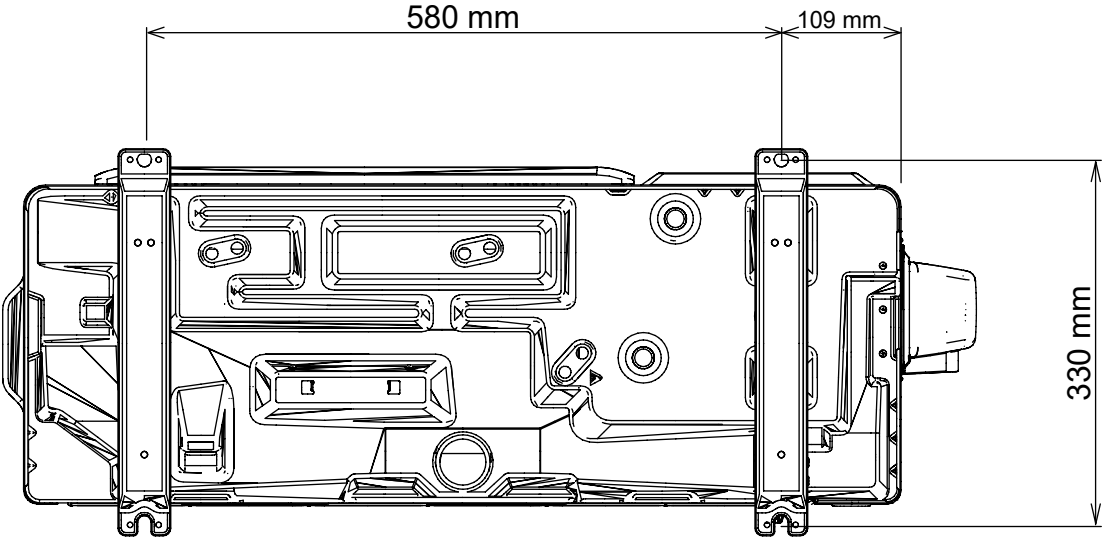
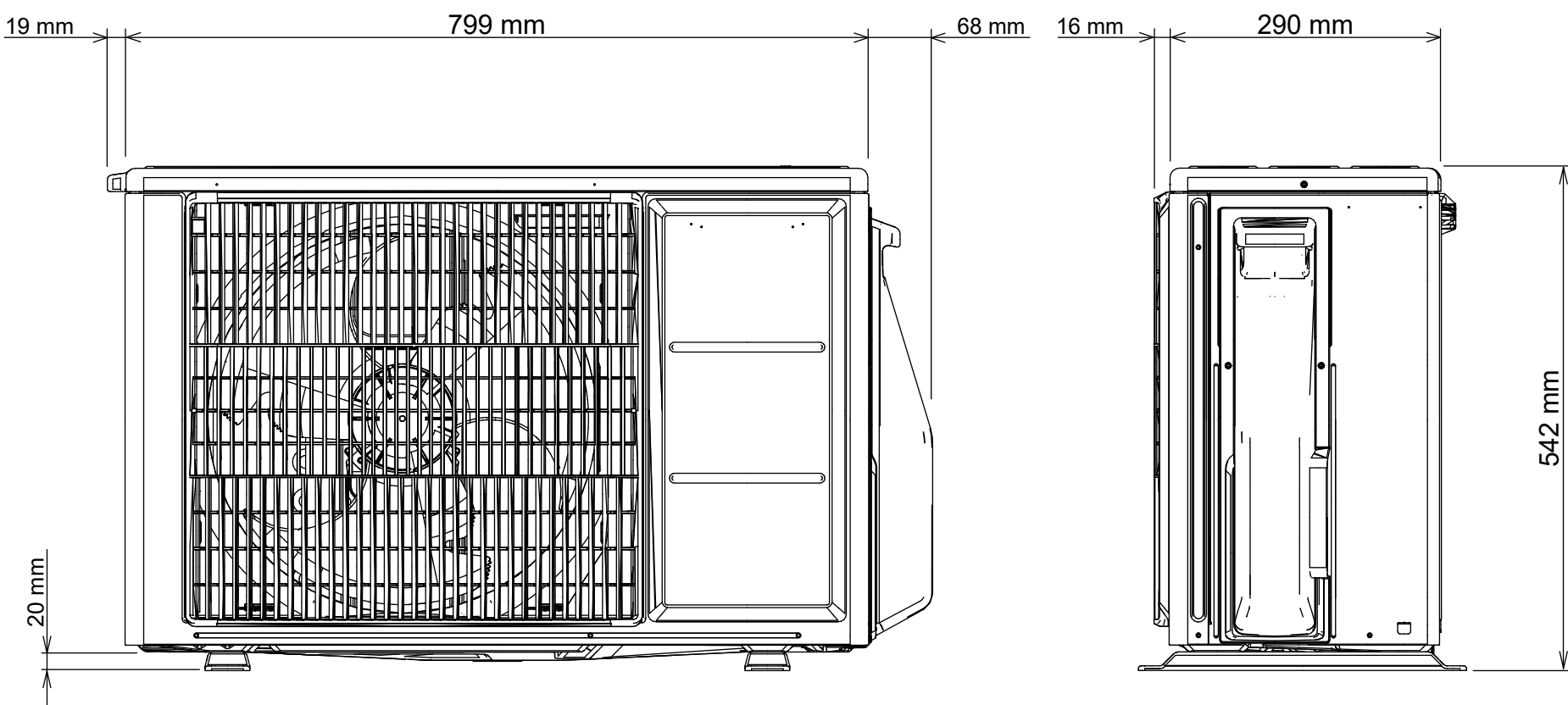
# DIMENSIONS

INDOOR UNIT  
ASHG18KLCA  
ASHG24KLCA

Unit: mm

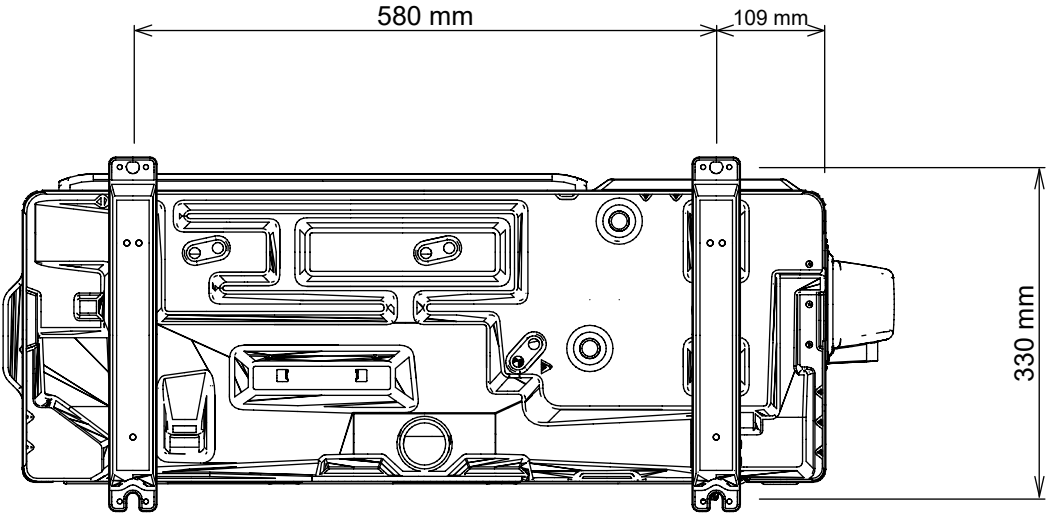
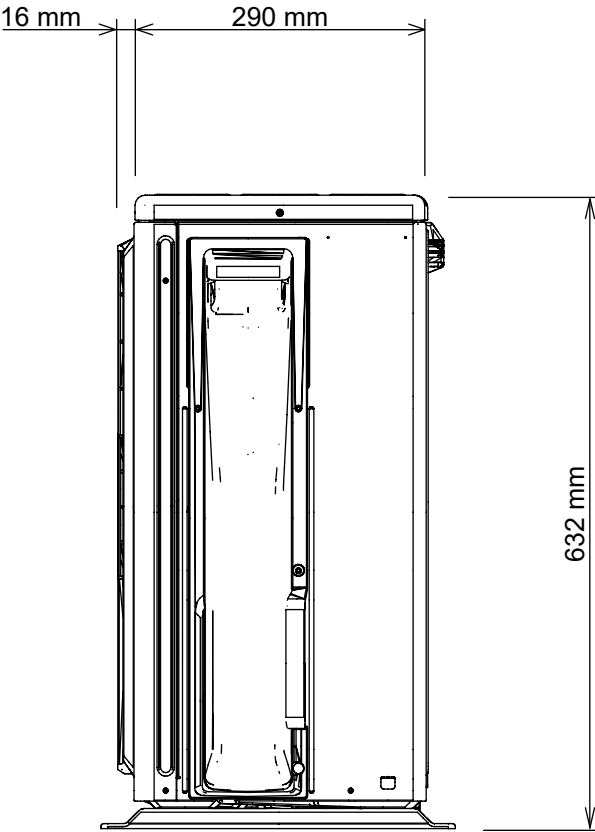
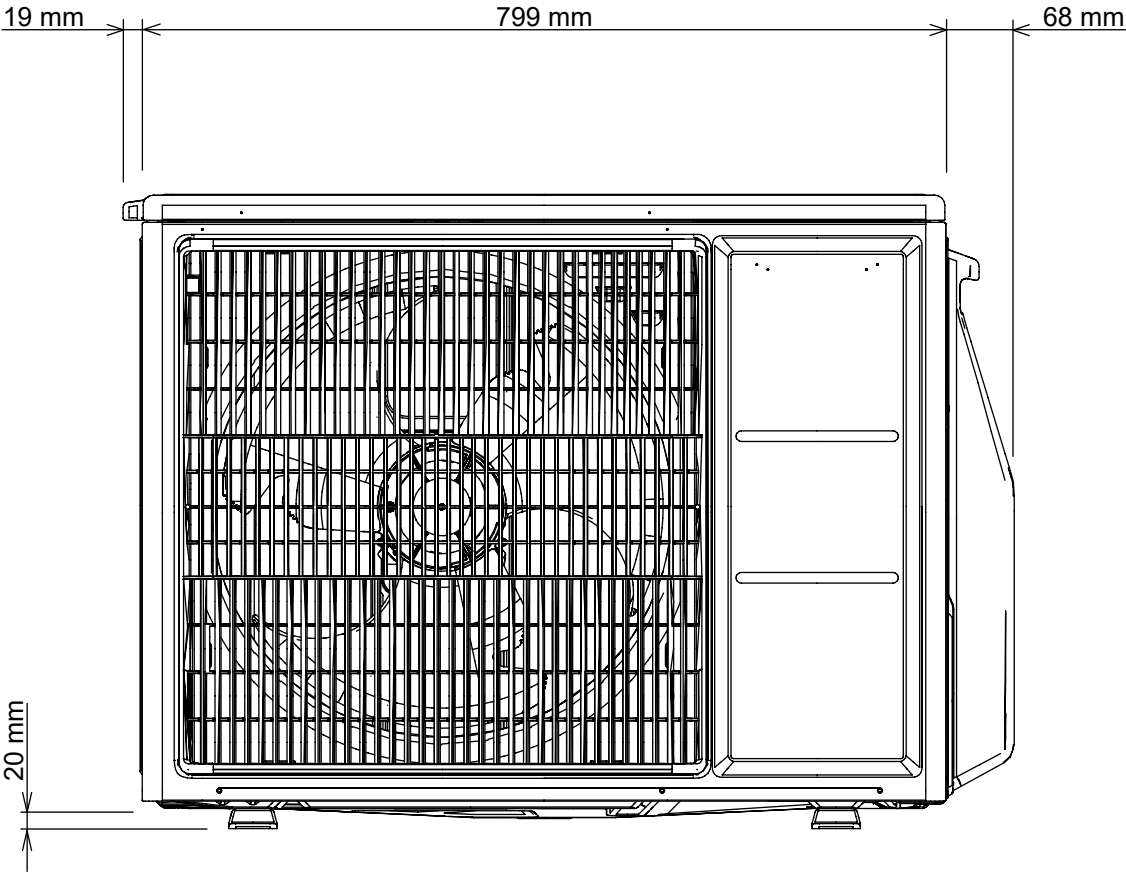


OUTDOOR UNIT  
AOHG18KLCA



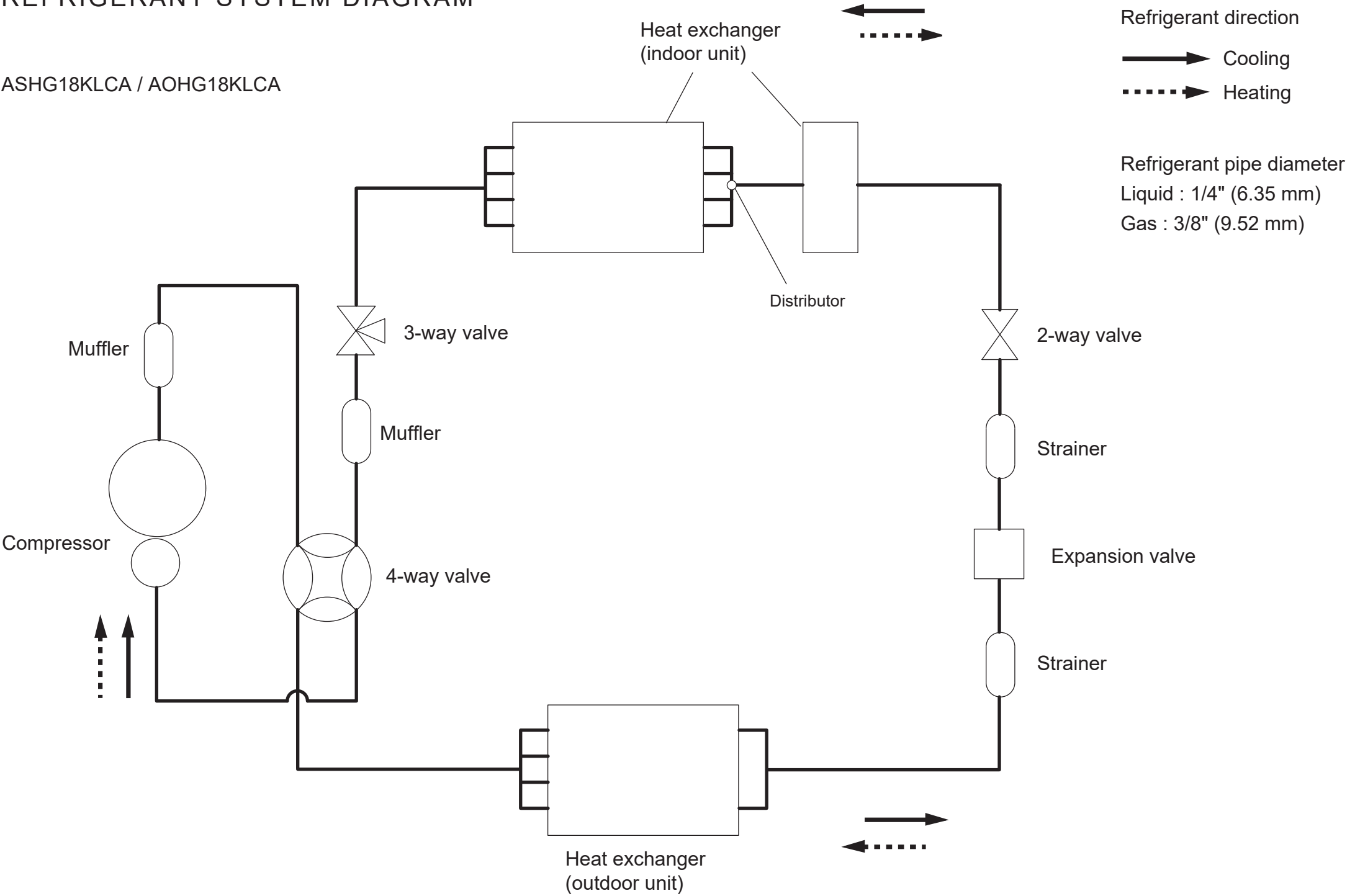


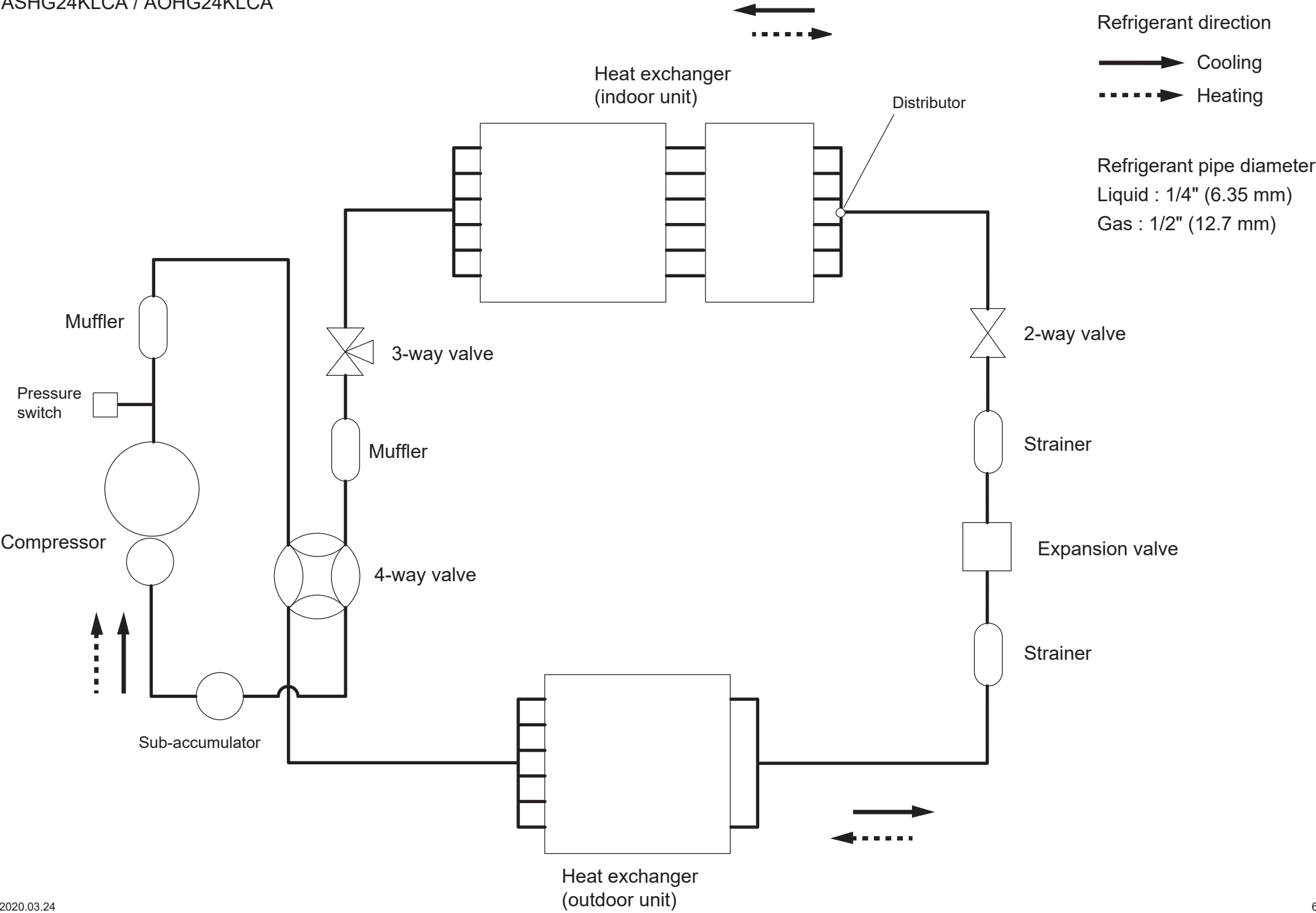
OUTDOOR UNIT  
AOHG24KLCA



# REFRIGERANT SYSTEM DIAGRAM

ASHG18KLCA / AOHG18KLCA

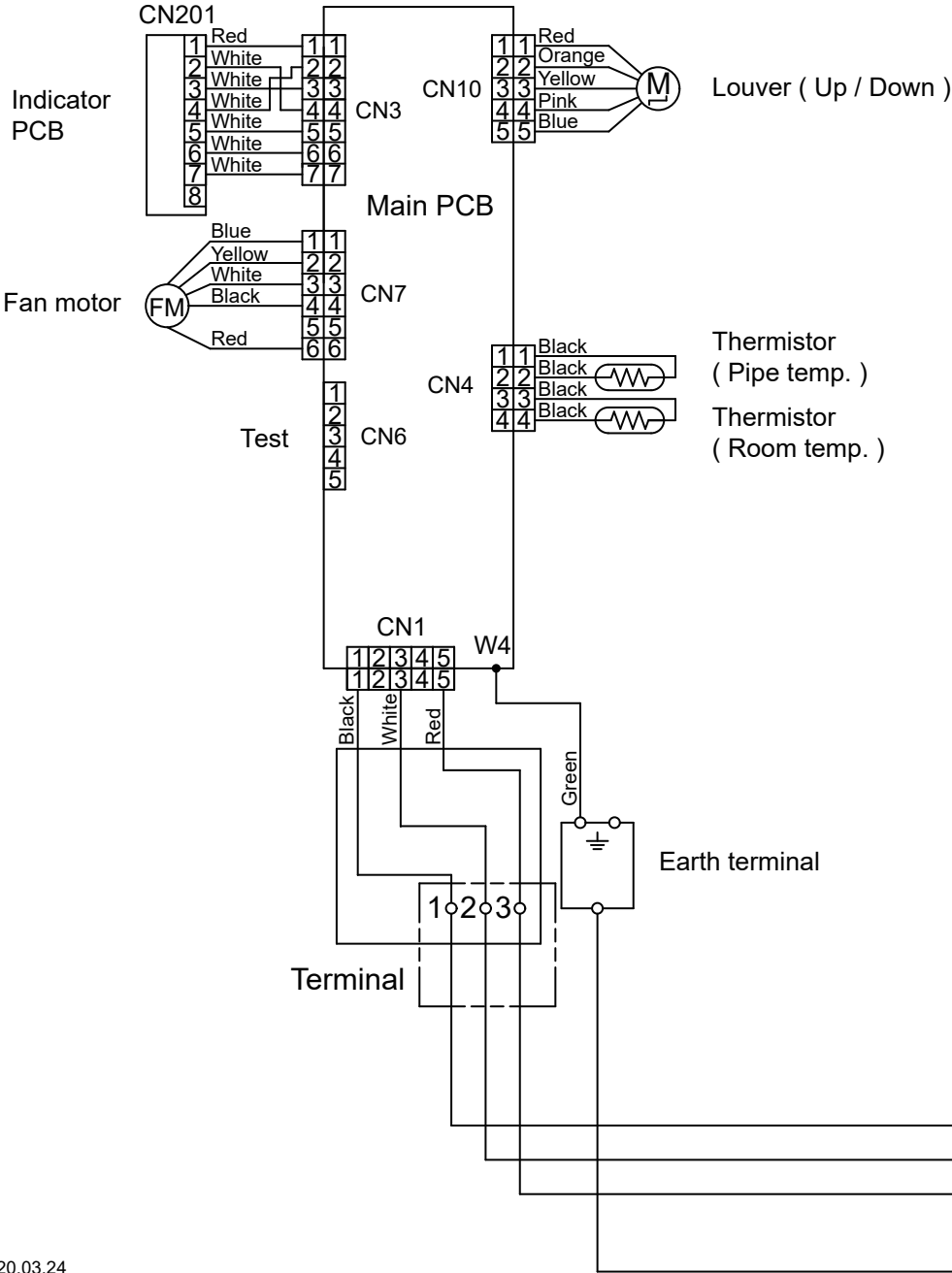




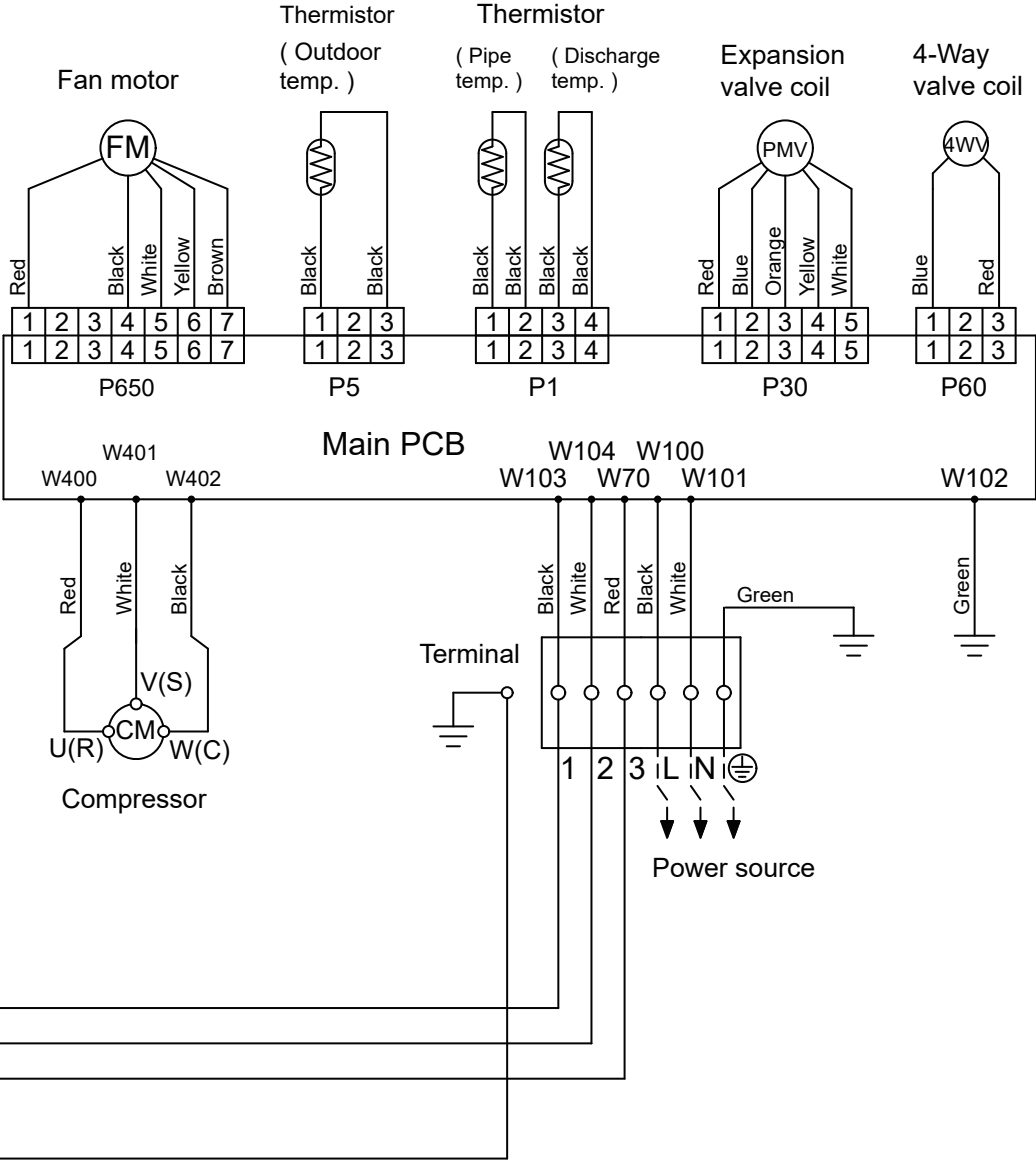
CIRCUIT DIAGRAM

ASHG18KLCA / AOHG18KLCA

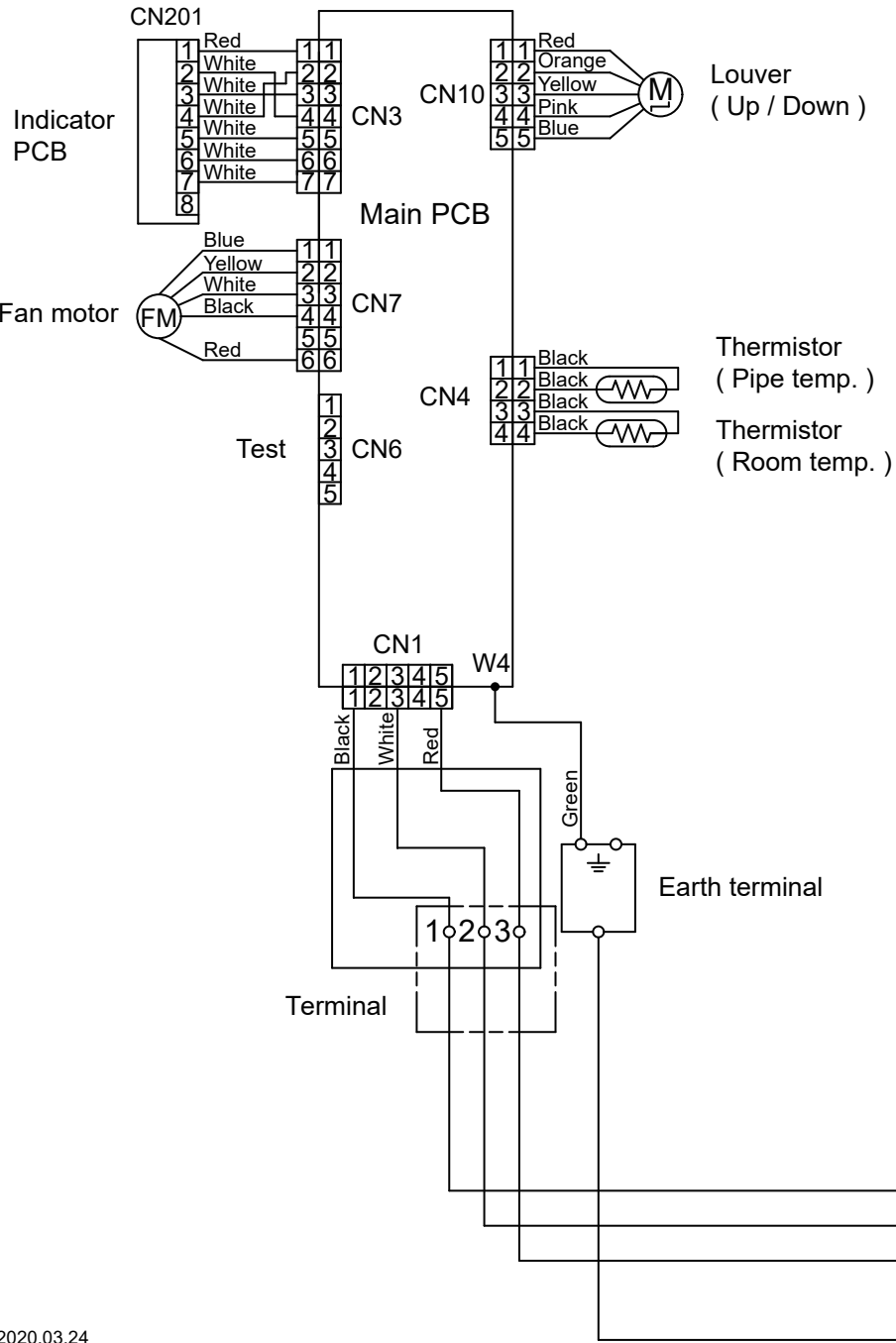
INDOOR UNIT



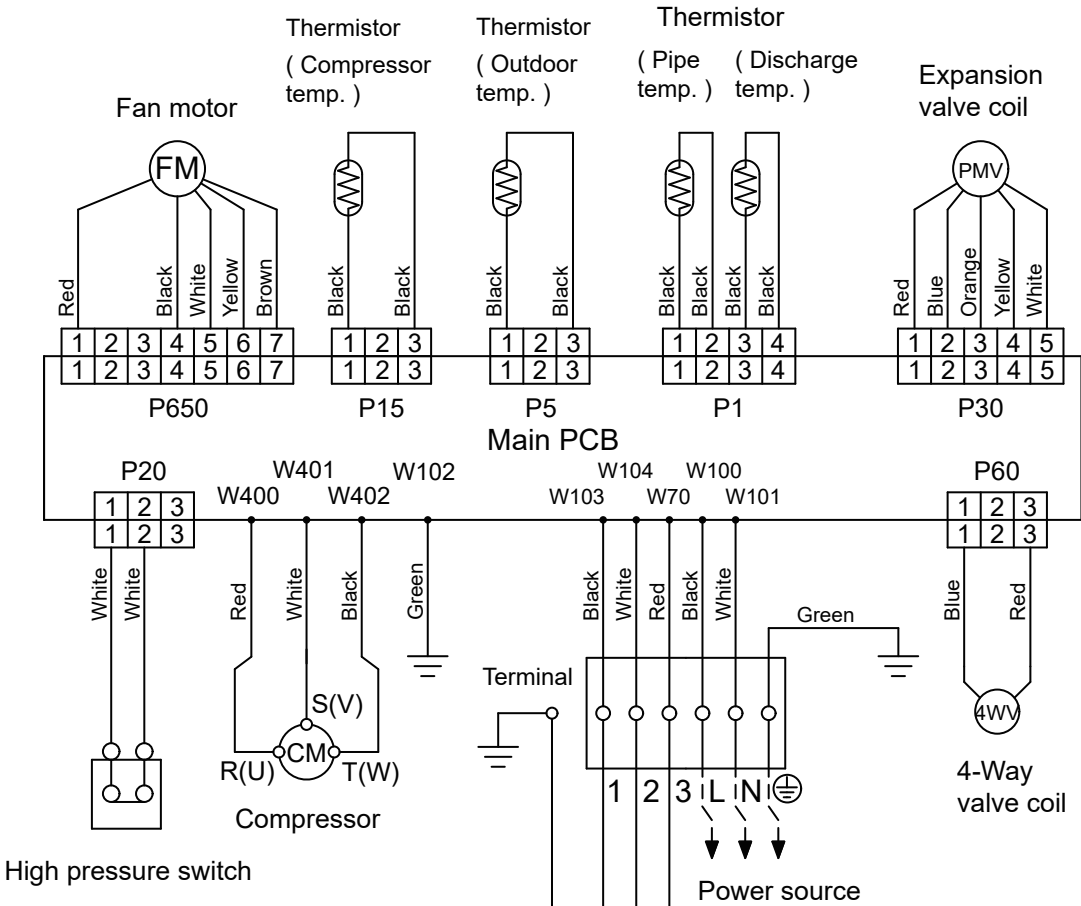
OUTDOOR UNIT



INDOOR UNIT



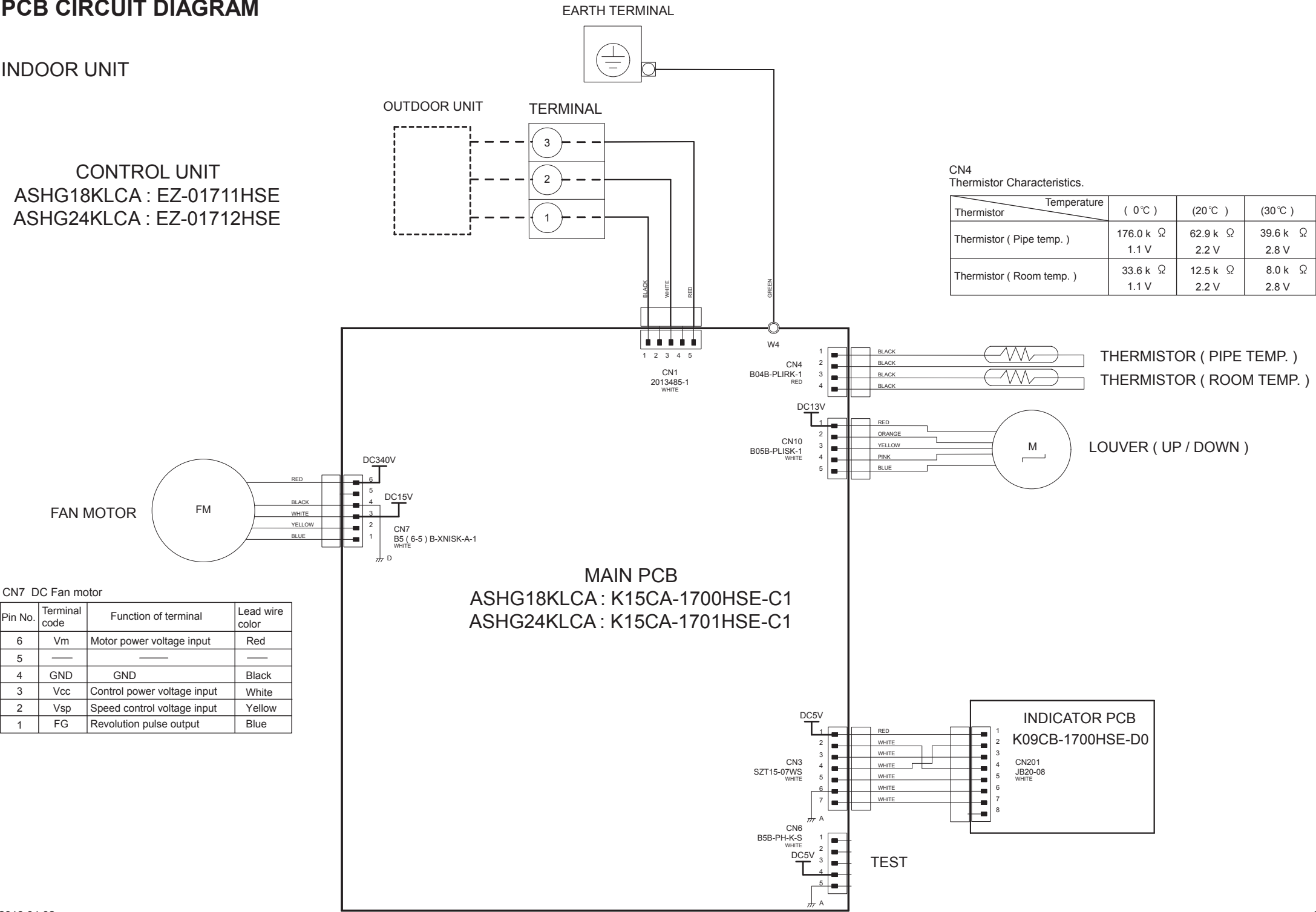
OUTDOOR UNIT



PCB CIRCUIT DIAGRAM

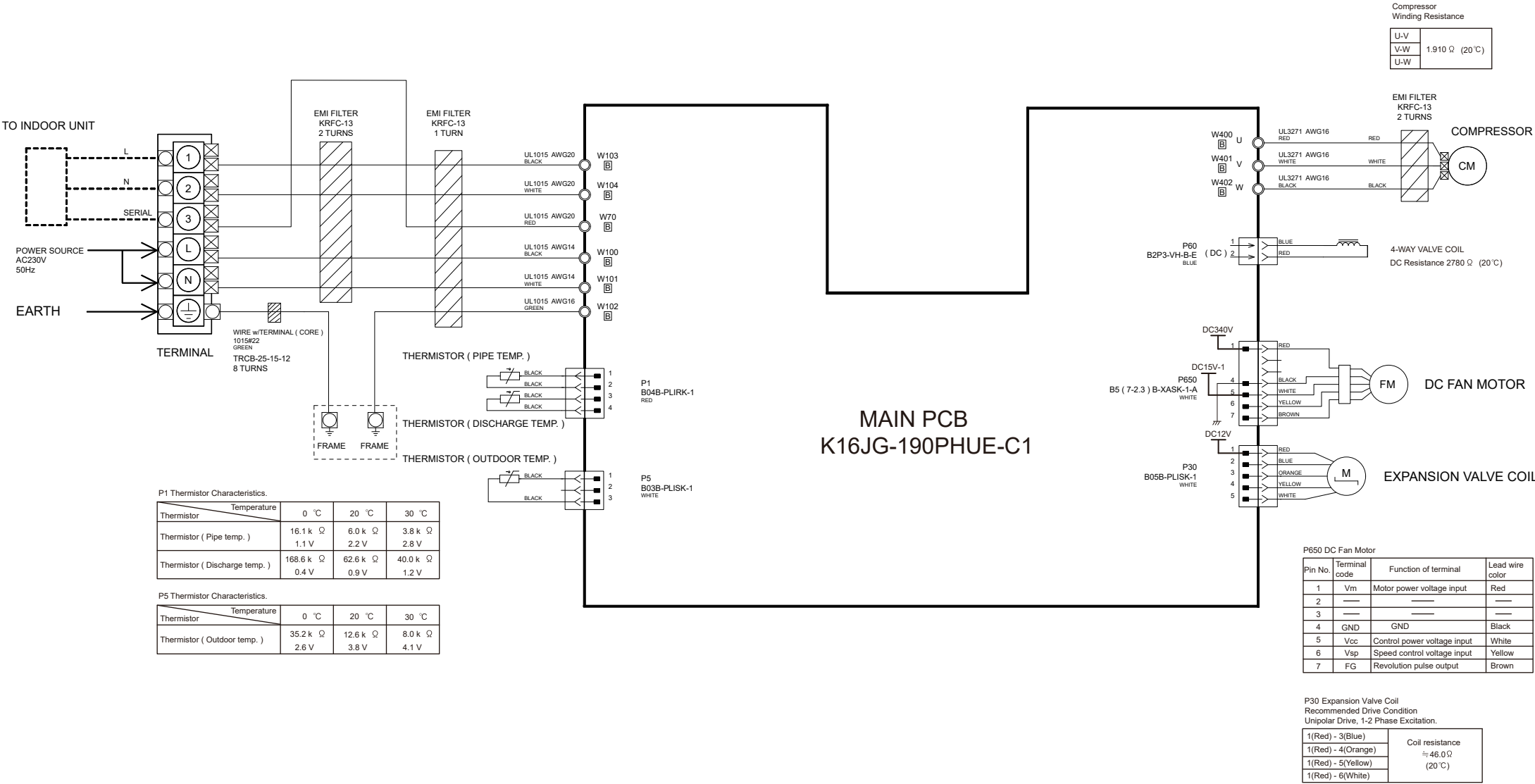
INDOOR UNIT

CONTROL UNIT  
ASHG18KLCA : EZ-01711HSE  
ASHG24KLCA : EZ-01712HSE



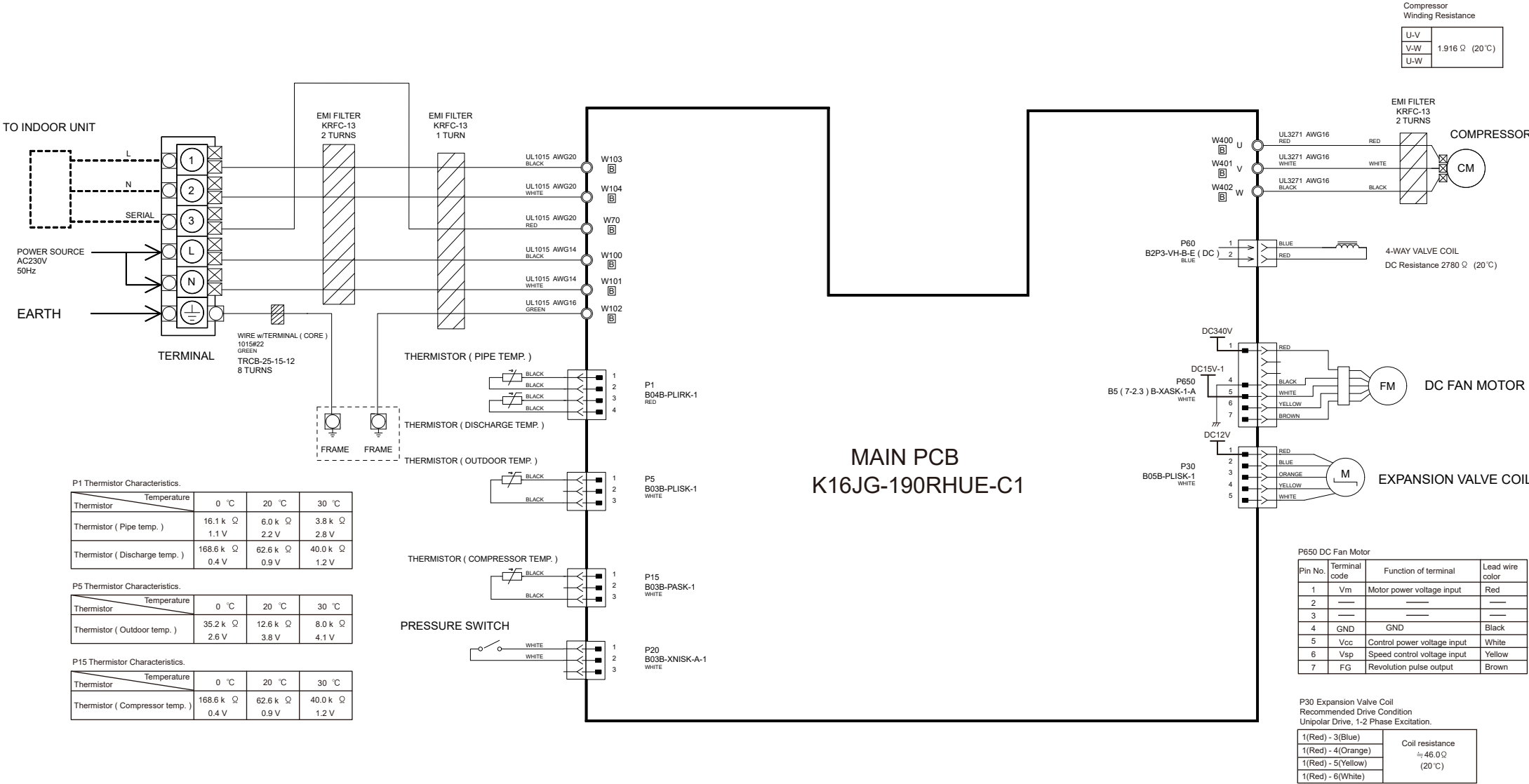
OUTDOOR UNIT  
AOHG18KLCA

INVERTER ASSEMBLY  
EZ-0191YHUE



OUTDOOR UNIT  
AOHG24KLCA

INVERTER ASSEMBLY  
EZ-01920HUE





# ERROR DETECTION

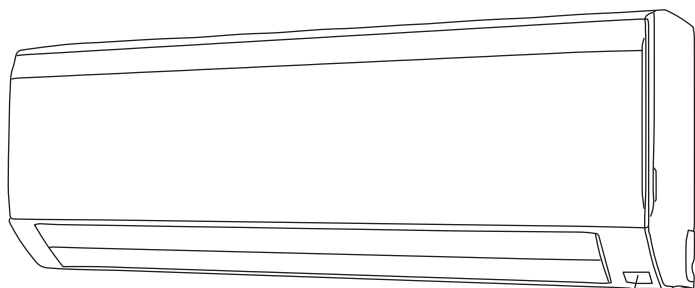
If you use a wireless remote controller, the lamp on the photo detector unit will output error codes by way of blinking patterns.

If you use a wired remote controller, 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



OPERATION indicator lamp (green)

TIMER indicator lamp (orange)

ECONOMY indicator lamp (green)

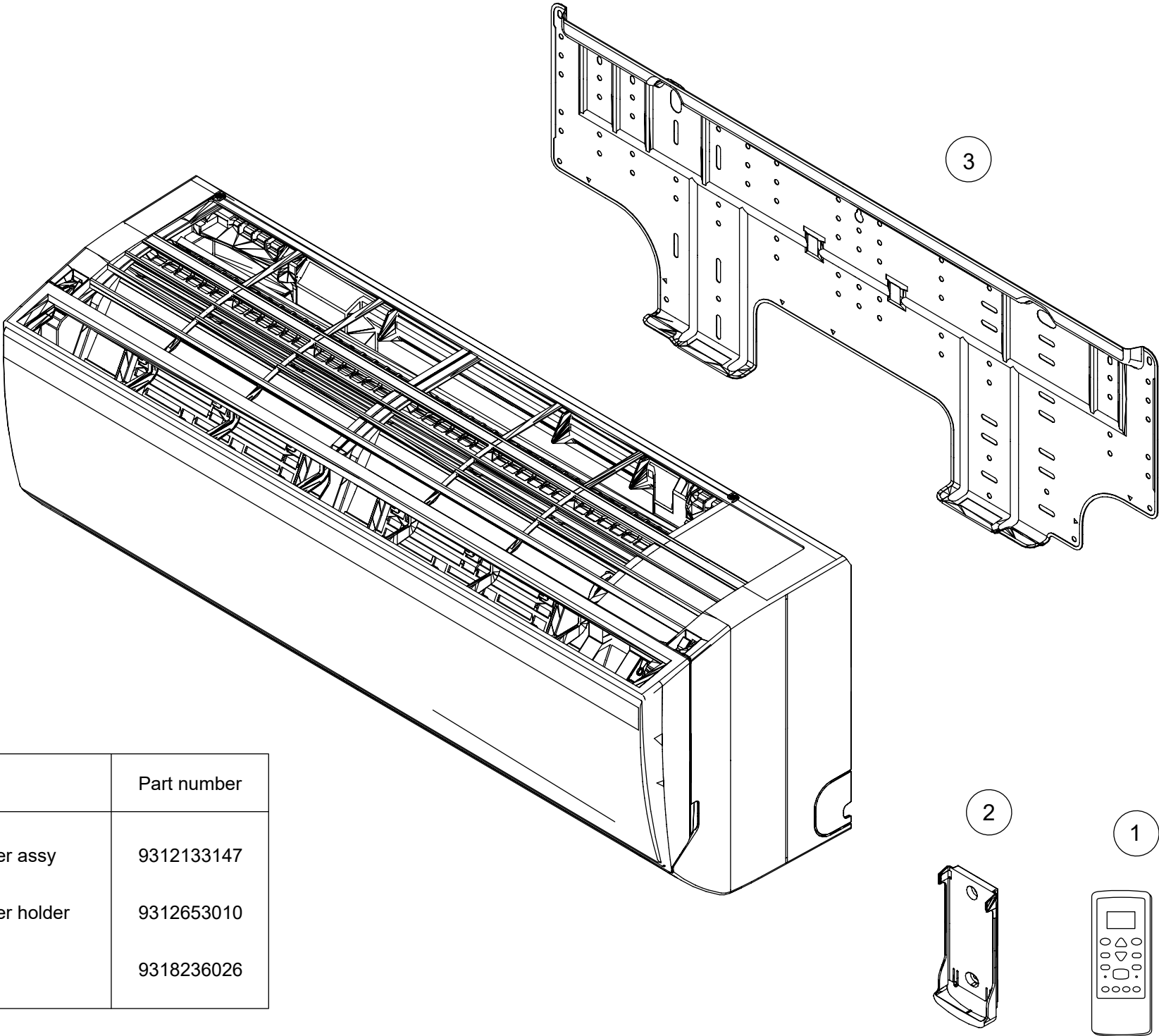
Display mode ● : 0.5s ON / 0.5s OFF  
◇ : 0.1s ON / 0.1s OFF  
( ) : Number of flashing

Error display			Error code	Description
OPERATION lamp (green)	TIMER lamp (orange)	ECONOMY lamp (green)		
●(1)	●(1)	◇	11	Serial communication error
●(1)	●(2)	◇	12	<ul style="list-style-type: none"> <li>Wired remote controller communication error</li> <li>Server room control communication error</li> </ul>
●(1)	●(5)	◇	15	Check run unfinished Automatic airflow adjustment error
●(1)	●(6)	◇	16	Peripheral unit transmission PCB connection error
●(1)	●(8)	◇	18	External communication error
●(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	<ul style="list-style-type: none"> <li>Connection unit number error (indoor slave unit) [Simultaneous Multi]</li> <li>Connection unit number error (indoor unit or branch unit) [Flexible Multi]</li> </ul>
●(2)	●(6)	◇	26	Indoor unit address setting error
●(2)	●(7)	◇	27	Primary unit, secondary unit setup error [Simultaneous Multi]
●(2)	●(9)	◇	29	Connection unit number error in wired remote controller system
●(3)	●(1)	◇	31	Power supply interruption error
●(3)	●(2)	◇	32	Indoor unit PCB model information error
●(3)	●(3)	◇	33	Indoor unit motor electricity consumption detection error
●(3)	●(5)	◇	35	Manual auto switch error
●(3)	●(9)	◇	39	Indoor unit power supply error for fan motor
●(3)	●(10)	◇	3A	Indoor unit communication circuit (wired remote controller) error
●(4)	●(1)	◇	41	Room temp. sensor error
●(4)	●(2)	◇	42	Indoor unit heat ex. middle temp. sensor error
●(4)	●(4)	◇	44	Human sensor error
●(5)	●(1)	◇	51	Indoor unit fan motor error
●(5)	●(3)	◇	53	Drain pump error
●(5)	●(4)	◇	54	Electric air cleaner reverse VDD error
●(5)	●(5)	◇	55	Filter set error
●(5)	●(7)	◇	57	Damper error
●(5)	●(8)	◇	58	Intake grille error
●(5)	●(9)	◇	59	Indoor unit fan motor 2 error (Left side fan)
●(5)	●(10)	◇	5A	Indoor unit fan motor 3 error (Right side fan)

Error display			Error code	Description
OPERATION lamp (green)	TIMER lamp (orange)	ECONOMY lamp (green)		
●(5)	●(15)	◇	5U	Indoor unit error
●(6)	●(1)	◇	61	Outdoor unit reverse/missing phase and wiring 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)	●(8)	◇	68	Outdoor unit rush current limiting resistor temp. rise 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	<ul style="list-style-type: none"> <li>2-way valve temp. sensor error</li> <li>3-way valve temp. sensor error</li> </ul>
●(7)	●(7)	◇	77	Heat sink temp. sensor error
●(8)	●(2)	◇	82	<ul style="list-style-type: none"> <li>Sub-cool Heat Ex. gas inlet temp. sensor error</li> <li>Sub-cool Heat Ex. gas outlet temp. sensor error</li> </ul>
●(8)	●(3)	◇	83	Liquid pipe temp. sensor error
●(8)	●(4)	◇	84	Current sensor error
●(8)	●(6)	◇	86	<ul style="list-style-type: none"> <li>Discharge pressure sensor error</li> <li>Suction pressure sensor error</li> <li>High pressure switch error</li> </ul>
●(9)	●(4)	◇	94	Trip detection
●(9)	●(5)	◇	95	Compressor rotor position detection error (permanent stop)
●(9)	●(7)	◇	97	Outdoor unit fan motor 1 error
●(9)	●(8)	◇	98	Outdoor unit fan motor 2 error
●(9)	●(9)	◇	99	4-way valve error
●(9)	●(10)	◇	9A	Coil (expansion 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)	◇	12	Branch boxes error [Flexible Multi]

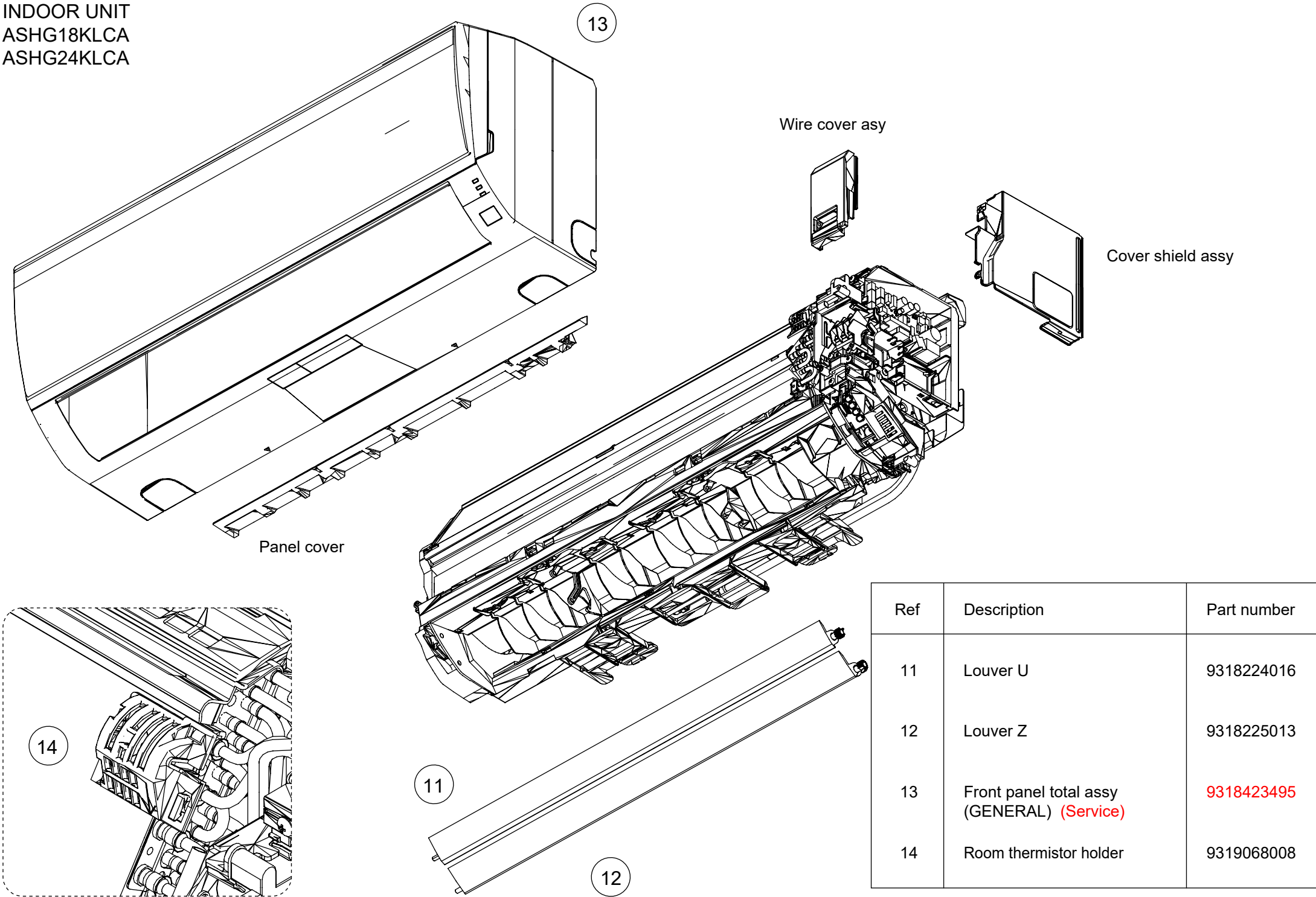
PARTS

INDOOR UNIT  
ASHG18KLCA  
ASHG24KLCA



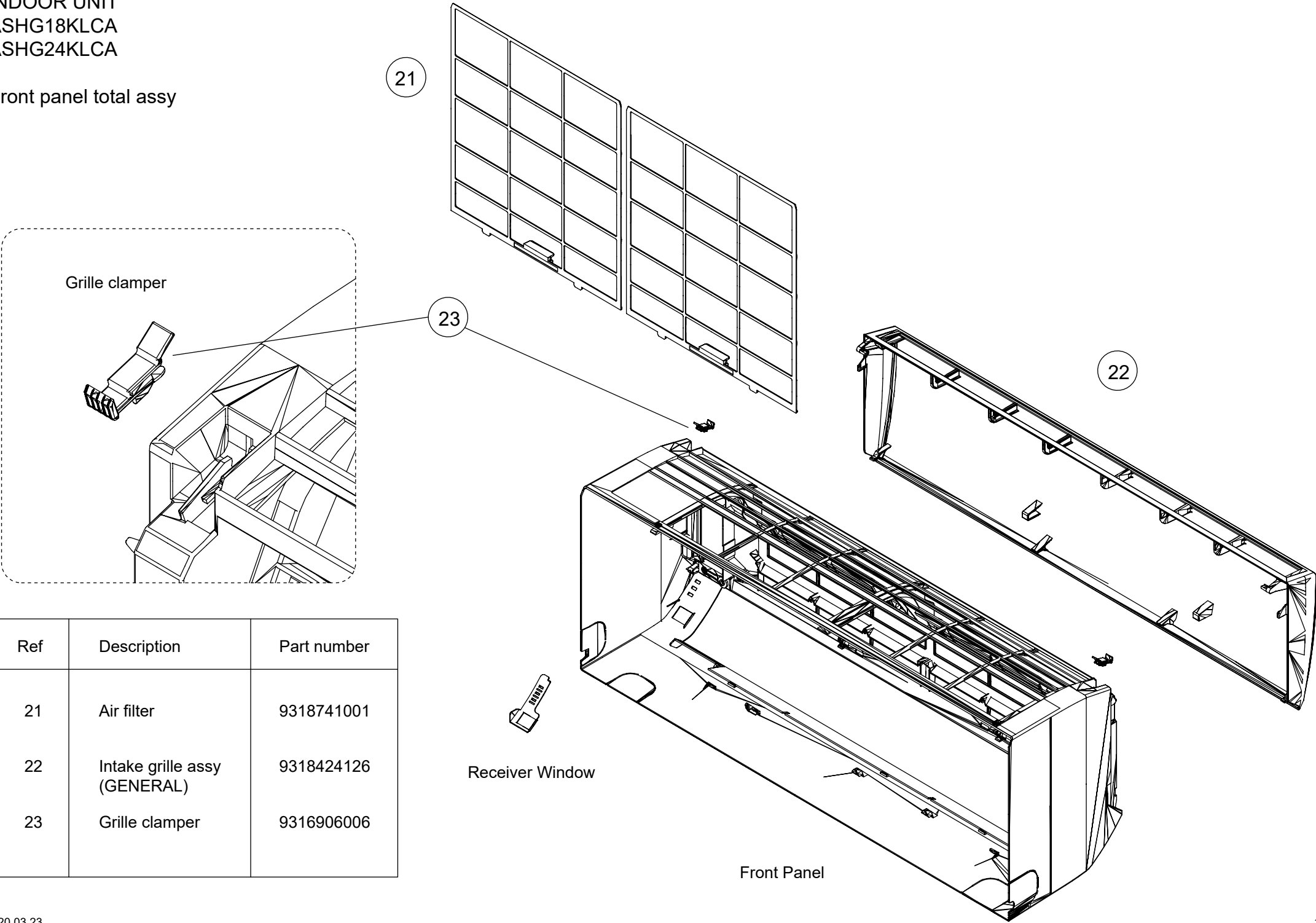
Ref	Description	Part number
1	Remote controller assy (GENERAL)	9312133147
2	Remote controller holder	9312653010
3	Bracket panel	9318236026

INDOOR UNIT  
ASHG18KLCA  
ASHG24KLCA



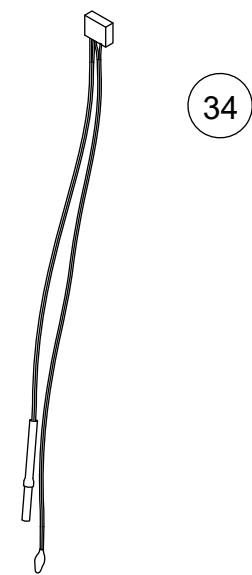
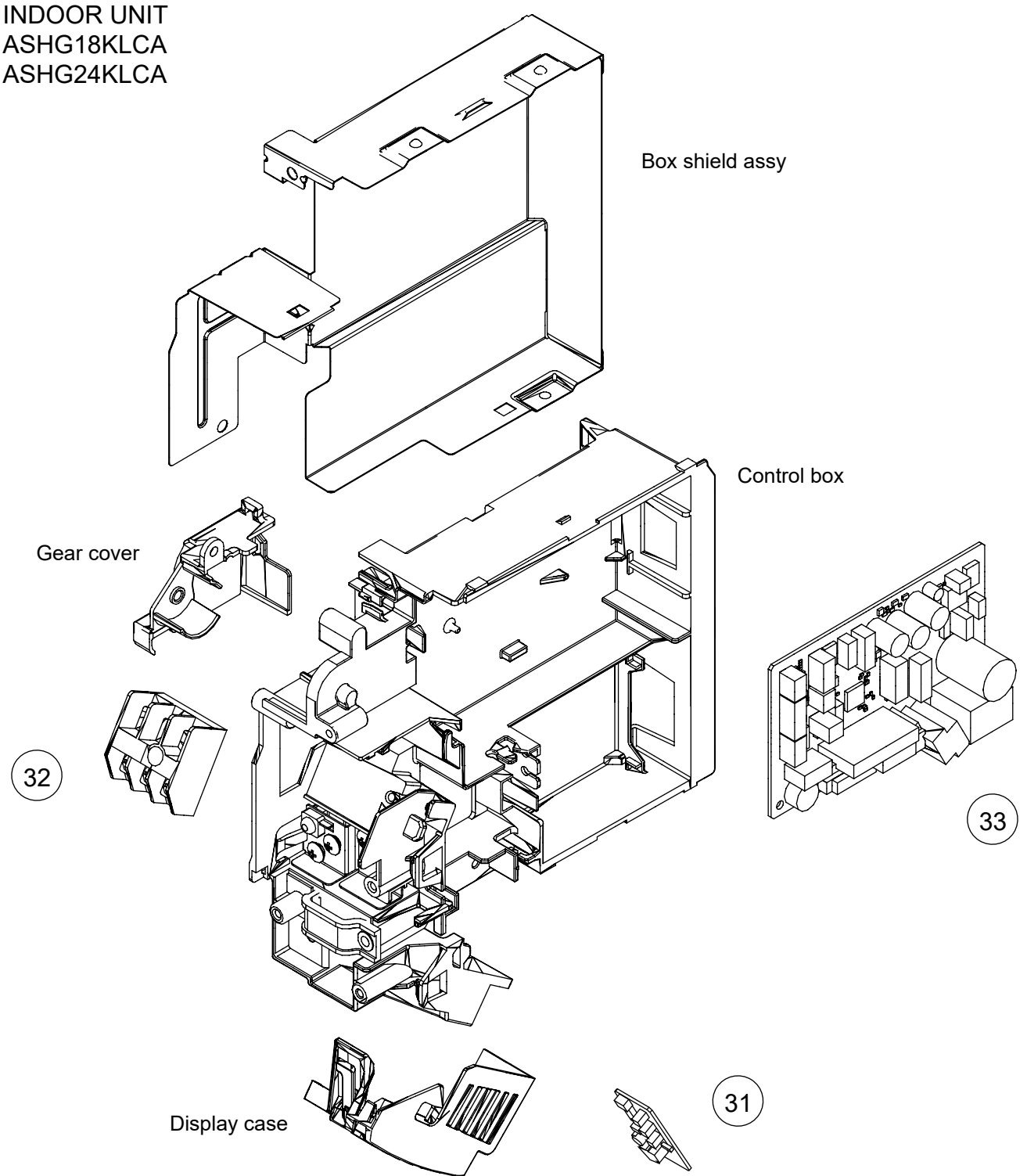
INDOOR UNIT  
ASHG18KLCA  
ASHG24KLCA

Front panel total assy



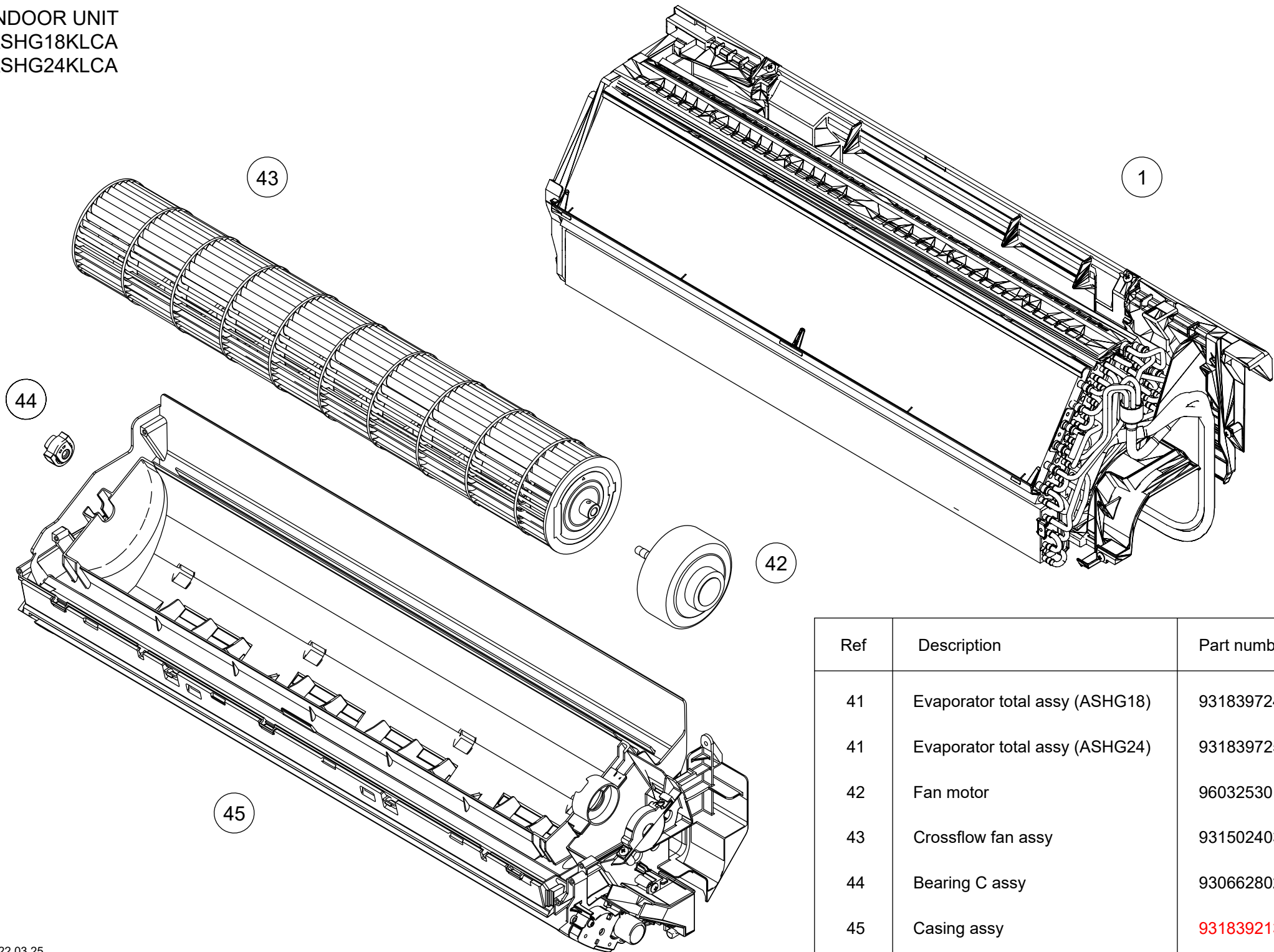
Ref	Description	Part number
21	Air filter	9318741001
22	Intake grille assy (GENERAL)	9318424126
23	Grille clamper	9316906006

INDOOR UNIT  
ASHG18KLCA  
ASHG24KLCA



Ref	Description	Part number
---	Display assy	9708471044
31	Display PCB	9708365046
32	Terminal	9900720025
33	Main PCB (ASHG18)	9710368097
33	Main PCB (ASHG24)	9710368103
34	Thermistor assy	9900627058

INDOOR UNIT  
ASHG18KLCA  
ASHG24KLCA



Ref	Description	Part number
41	Evaporator total assy (ASHG18)	9318397246
41	Evaporator total assy (ASHG24)	9318397253
42	Fan motor	9603253011
43	Crossflow fan assy	9315024039
44	Bearing C assy	9306628024
45	Casing assy	9318392135

INDOOR UNIT  
ASHG18KLCA  
ASHG24KLCA

Casing assy

Casing

Casing cover U

Casing cover B

Casing cover F

53

Motor cover

51

Louver  
gear holder

Cable guide

Motor cover

52

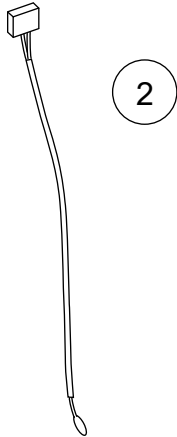
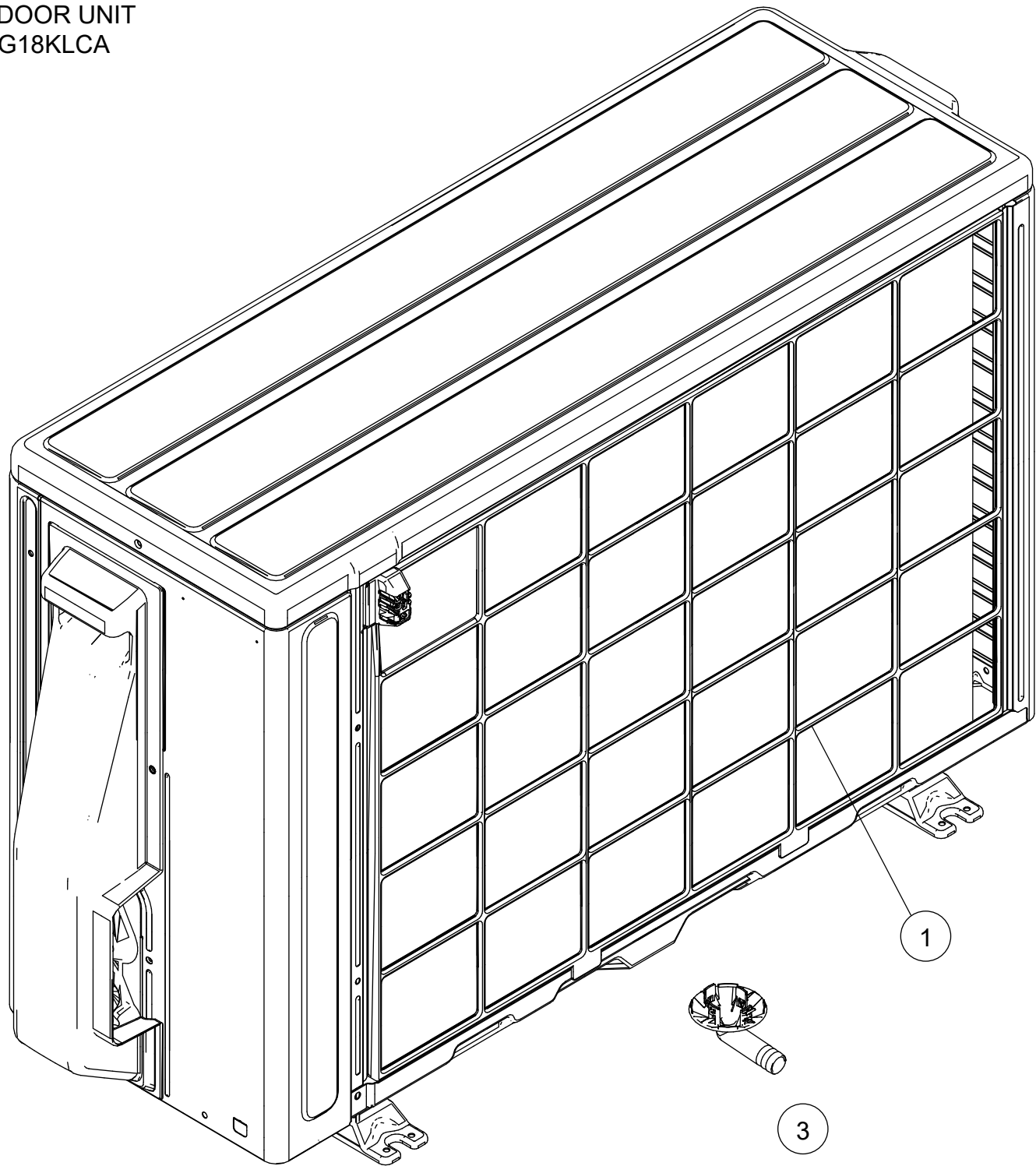
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56

57

Ref	Description	Part number
51	Fan guard	9318646009
52	R and L louver	9318216004
53	Drain hose assy	9316904002
54	Drain cap	9316177017
55	Motor step	9900384258
56	Louver gear	9318226003
57	Gear A	9309994003

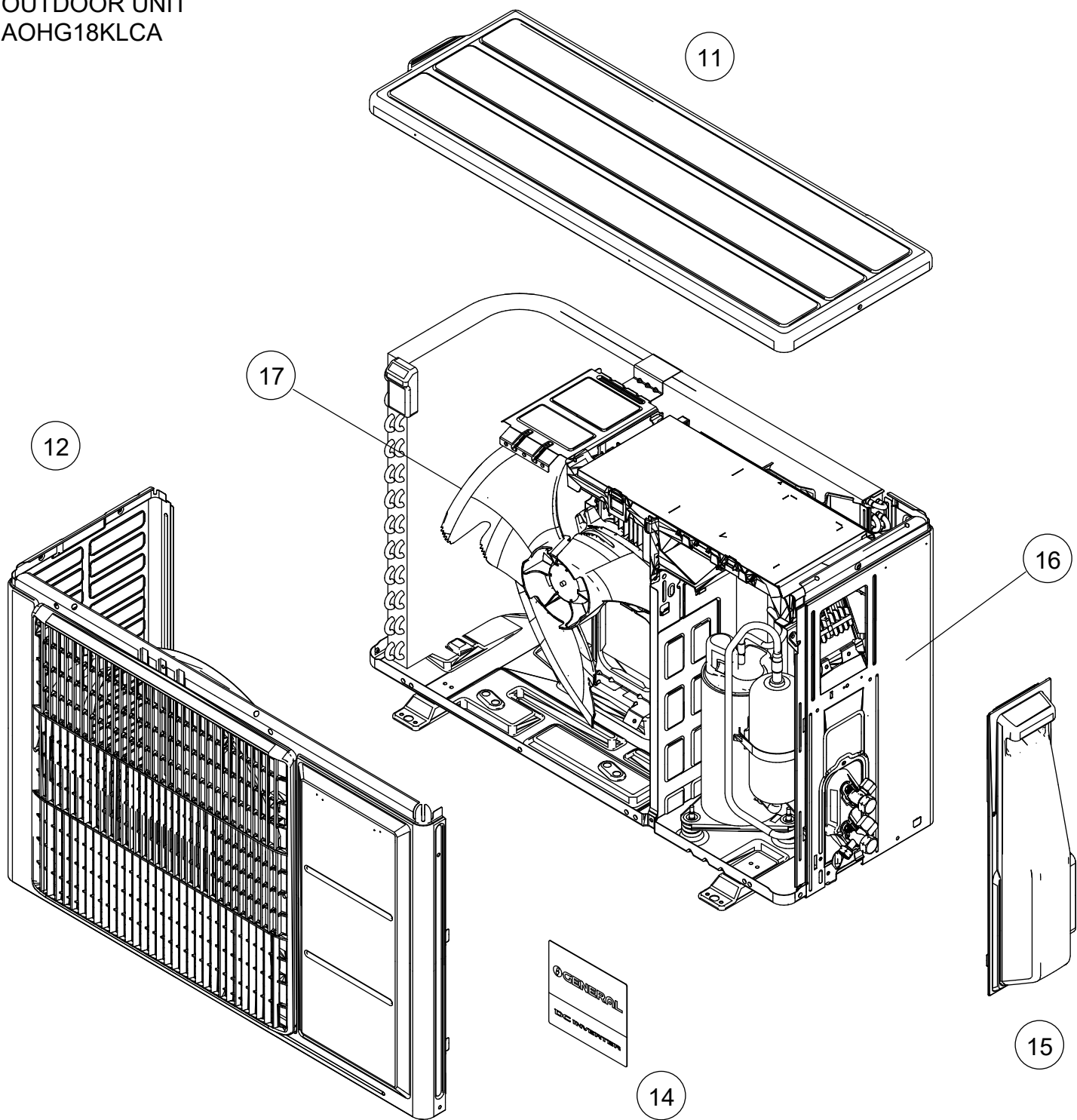
OUTDOOR UNIT  
AOHG18KLCA



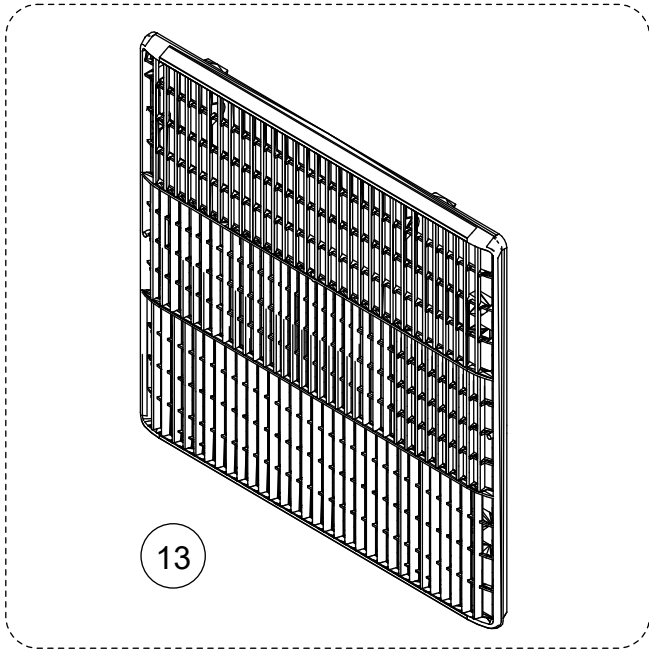
Ref.	Description	Part number
1	Protective net assy	9322811011
2	Outdoor thermistor	9900565060
3	Drain pipe	9322144003



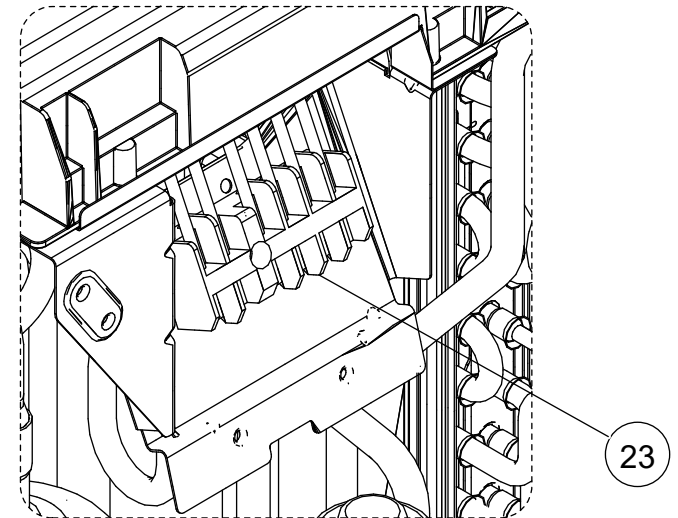
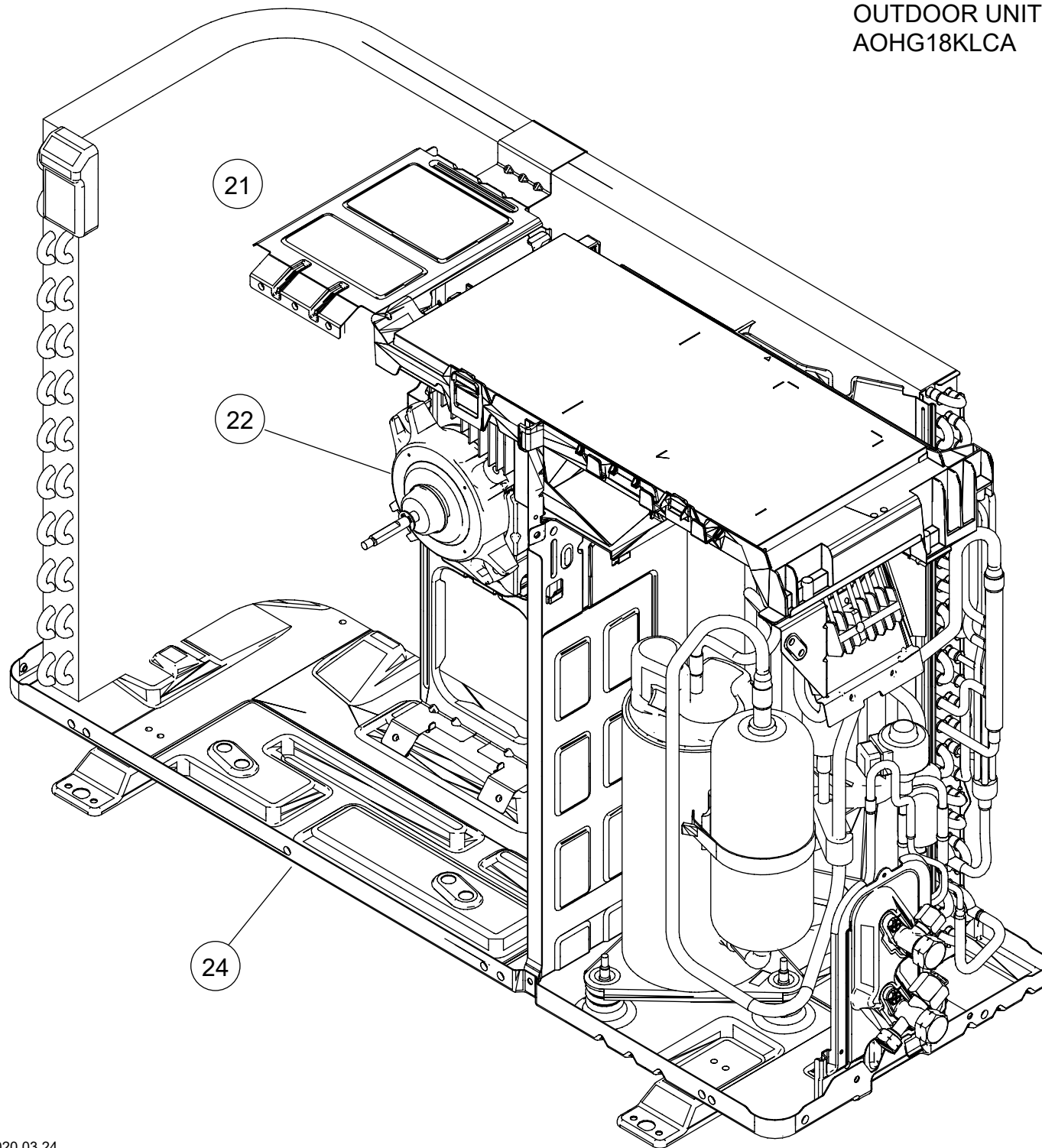
OUTDOOR UNIT  
AOHG18KLCA



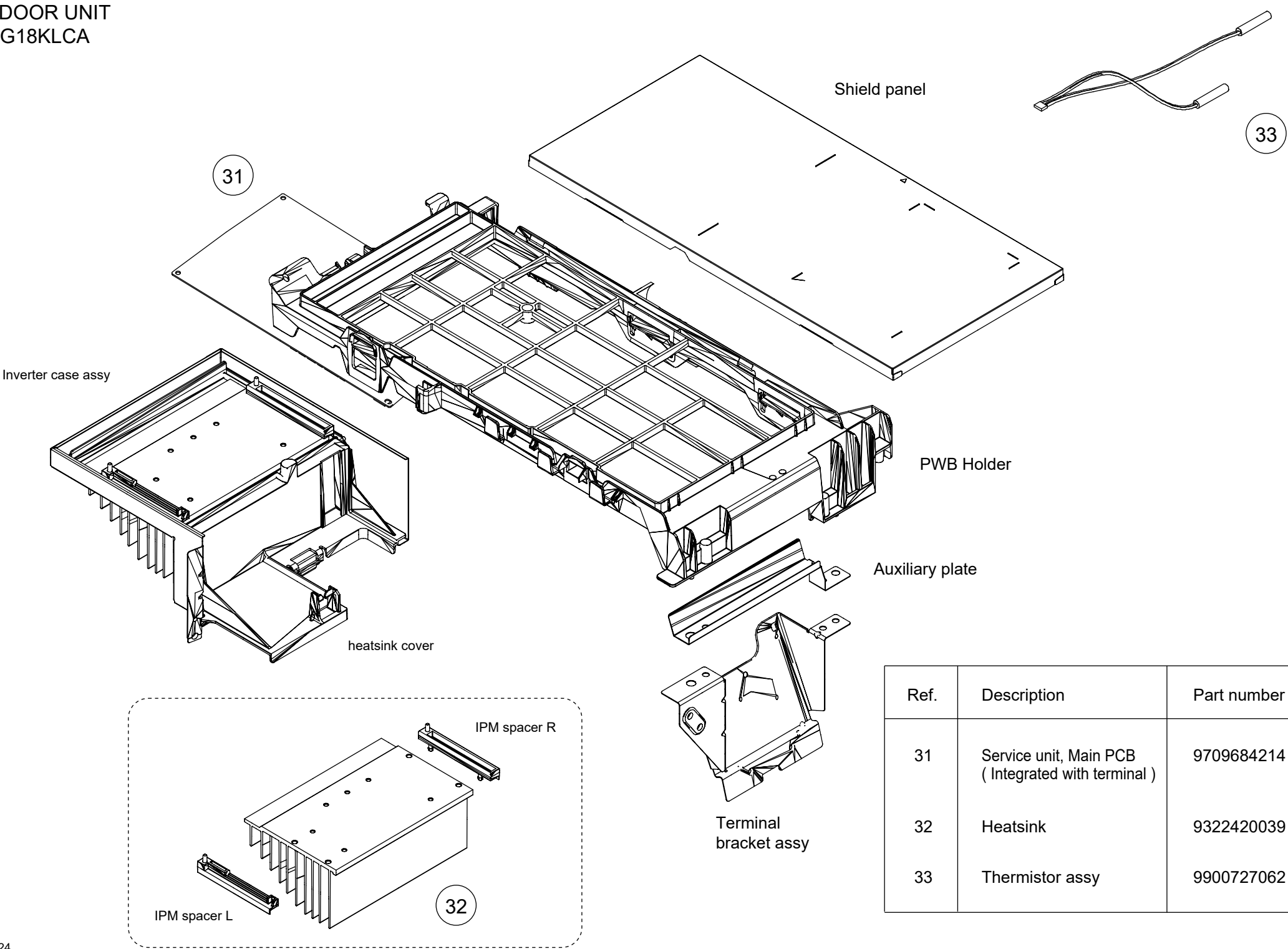
Ref.	Description	Part number
11	Top panel assy	9322556028
12	Front panel assy	9322555014
13	Blow grille	9322135001
14	Emblem	9319157009
15	Switch cover assy	9322570000
16	Cabinet right assy	9322552020
17	Propeller fan	9322136008



# OUTDOOR UNIT AOHG18KLCA

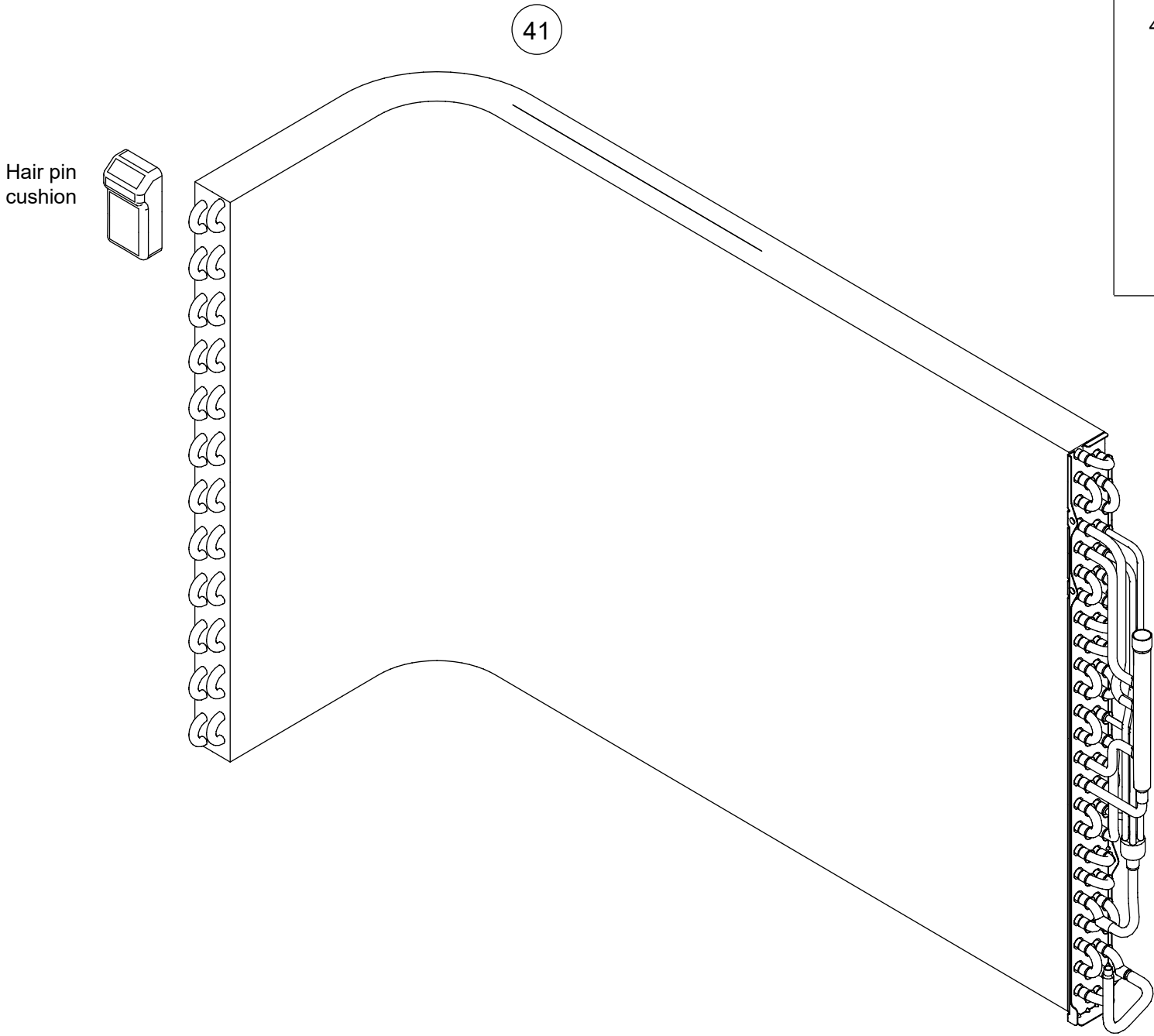


Ref.	Description	Part number
21	Motor bracket assy	9322553010
22	Brushless motor	9603553005
23	Terminal	9901070013
24	Base assy	9322314000

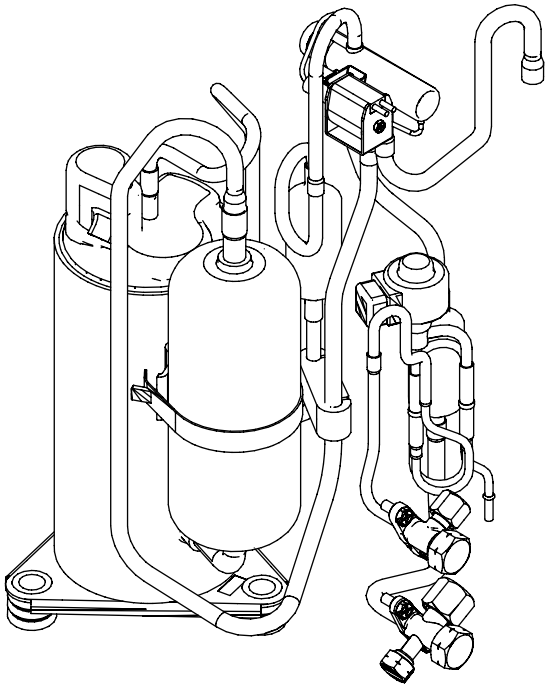


Ref.	Description	Part number
31	Service unit, Main PCB ( Integrated with terminal )	9709684214
32	Heatsink	9322420039
33	Thermistor assy	9900727062

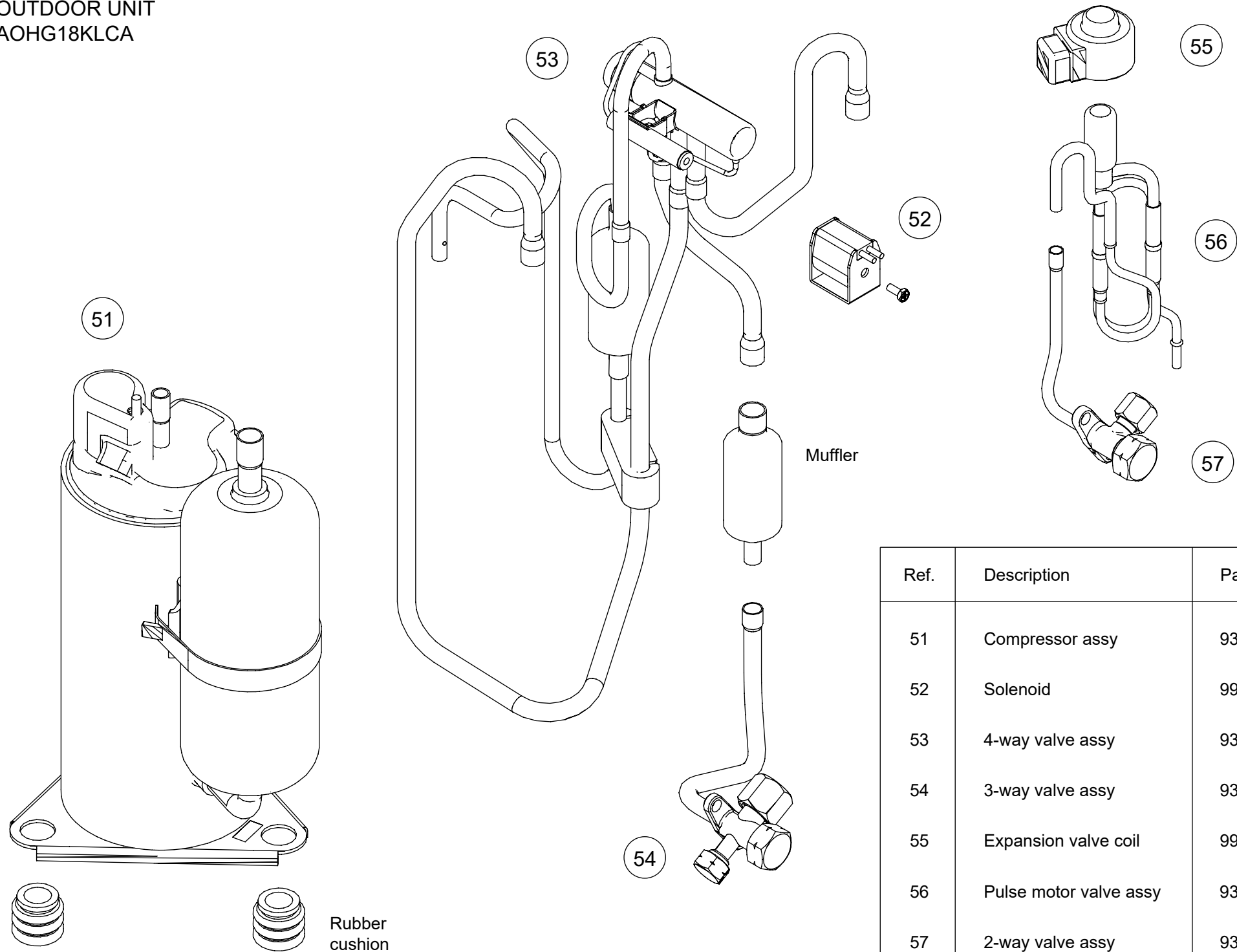
OUTDOOR UNIT  
AOHG18KLCA



Ref.	Description	Part number
41	Condenser total assy	9322275004
-	S-insulator B	9322535009
-	S-insulator F	9322536006
-	S-insulator H	9322537003
-	S-insulator V	9323045002

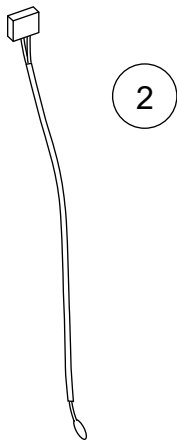
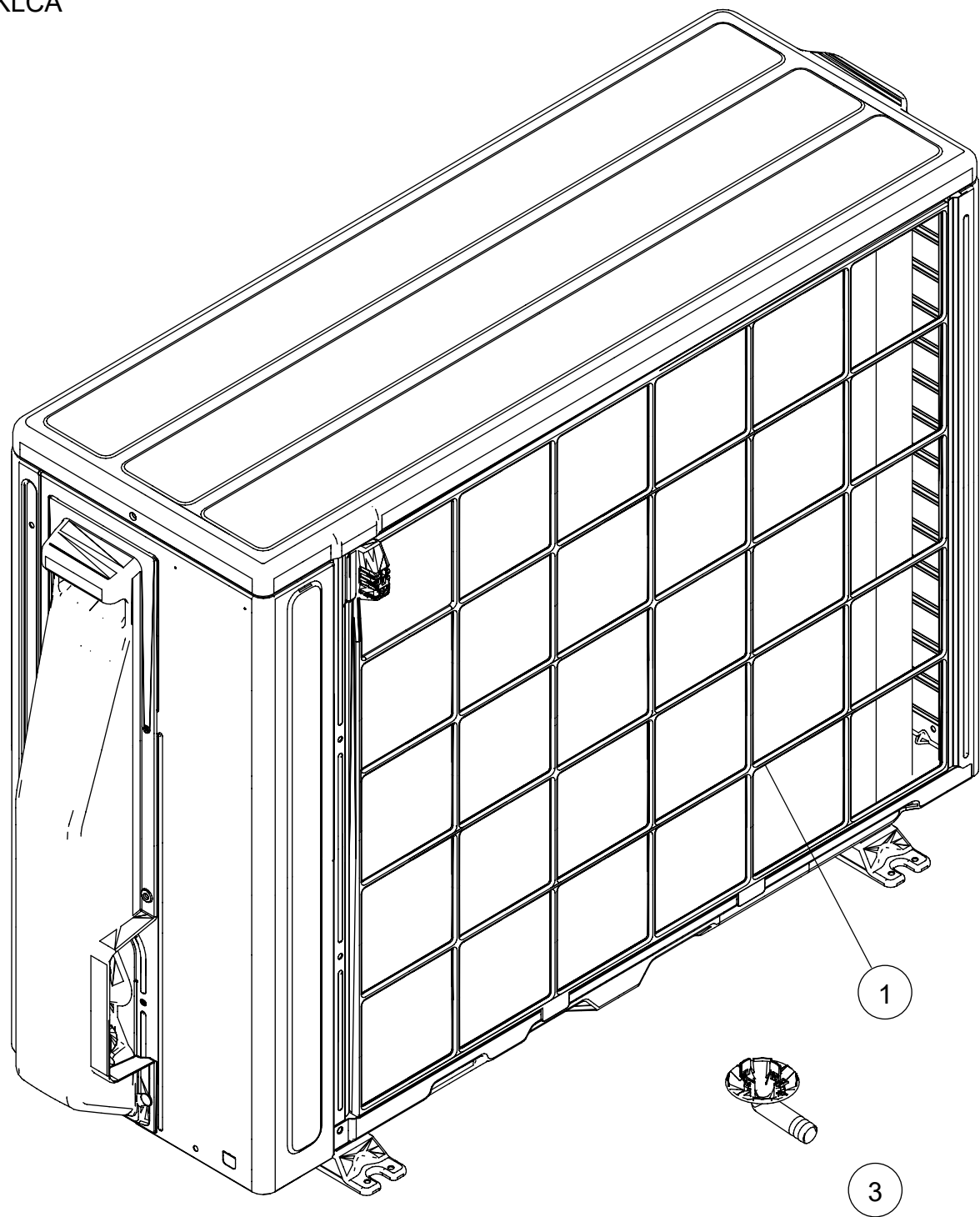


OUTDOOR UNIT  
AOHG18KLCA



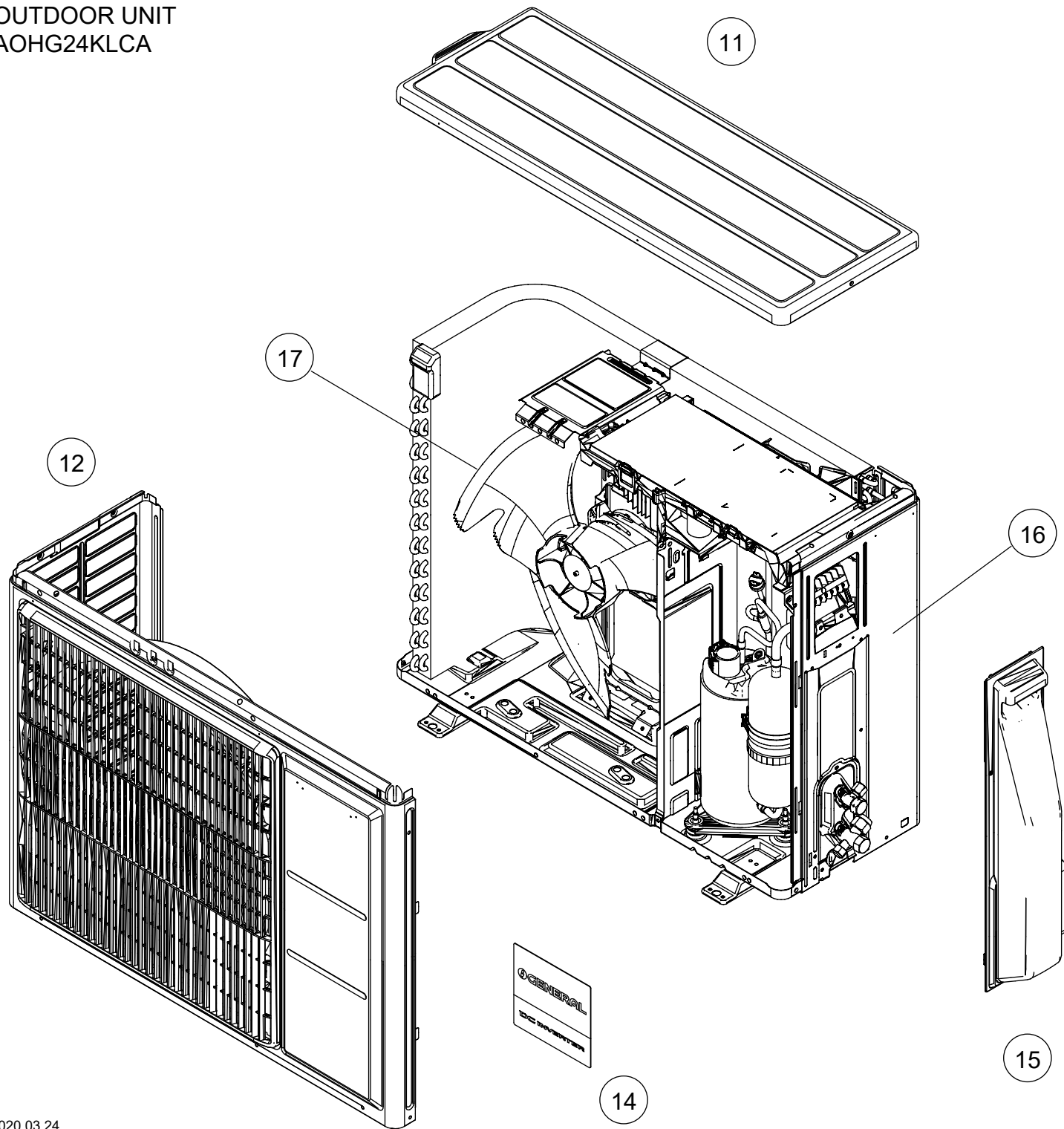
Ref.	Description	Part number
51	Compressor assy	9322433008
52	Solenoid	9970195006
53	4-way valve assy	9322445001
54	3-way valve assy	9322475008
55	Expansion valve coil	9970095122
56	Pulse motor valve assy	9322463005
57	2-way valve assy	9322474001

OUTDOOR UNIT  
AOHG24KLCA



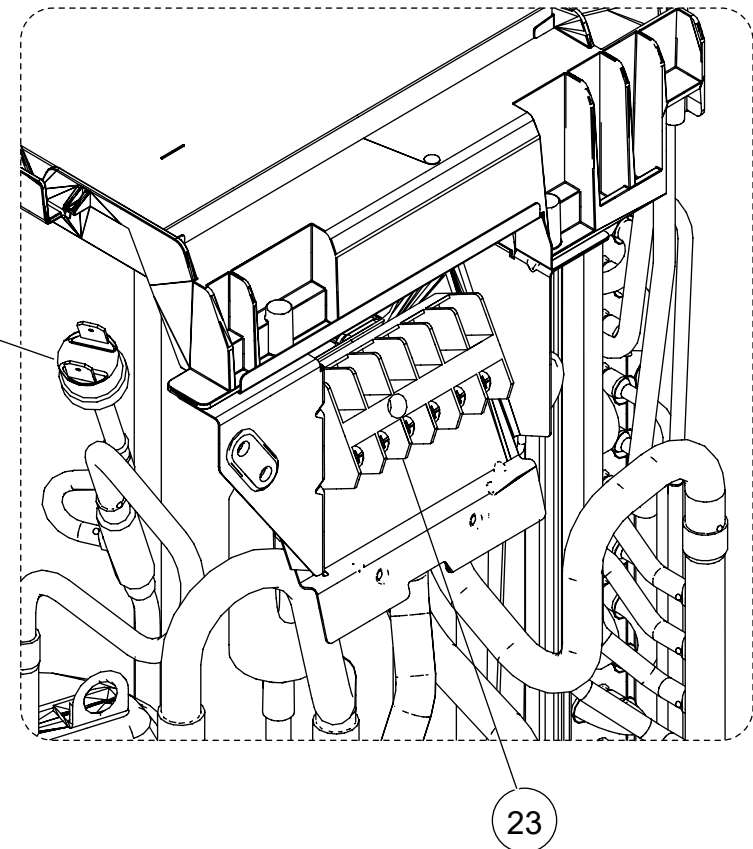
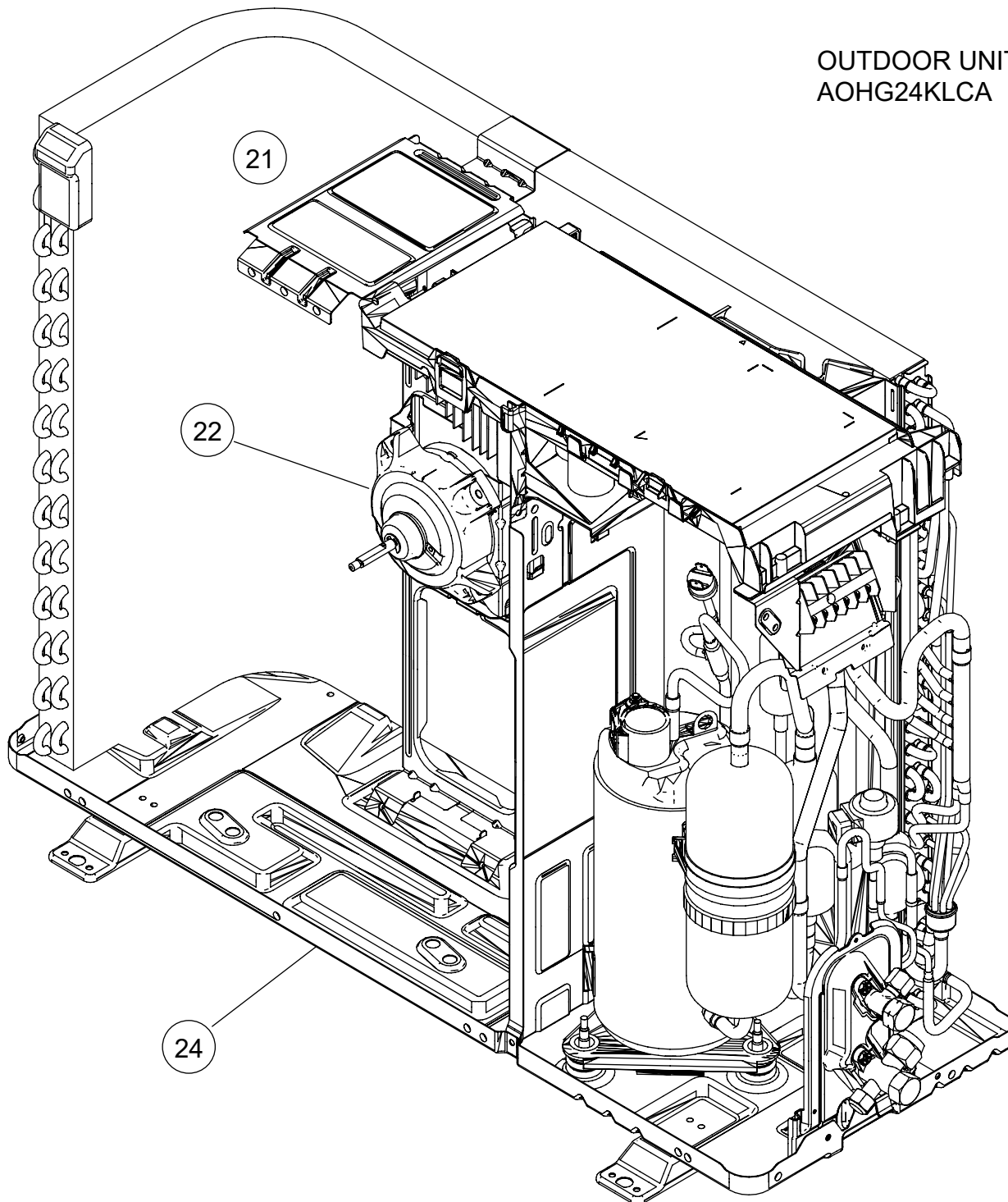
Ref.	Description	Part number
1	Protective net assy	9322811028
2	Outdoor thermistor	9900565060
3	Drain pipe	9322144003

OUTDOOR UNIT  
AOHG24KLCA



Ref.	Description	Part number
11	Top panel assy	9322556066
12	Front panel assy	9322555205
13	Blow grille	9322149008
14	Emblem	9319157009
15	Switch cover assy	9322570024
16	Cabinet right assy	9322552099
17	Propeller fan	9322150004

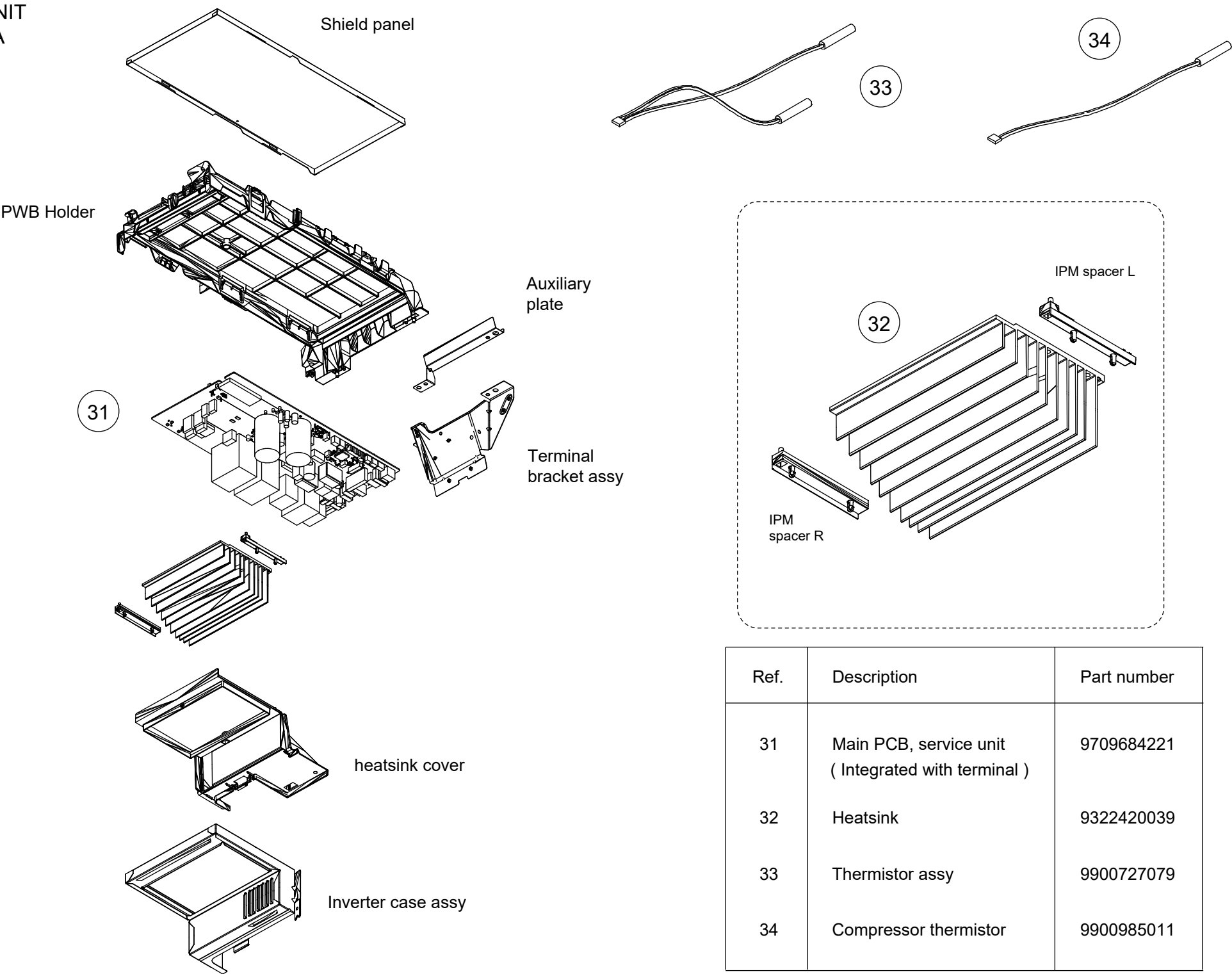
# OUTDOOR UNIT AOHG24KLCA



Ref.	Description	Part number
21	Motor bracket assy	9322553027
22	Brushless motor	9603601003
23	Terminal	9901070013
24	Base assy	9322314000
25	Pressure switch	9900186012



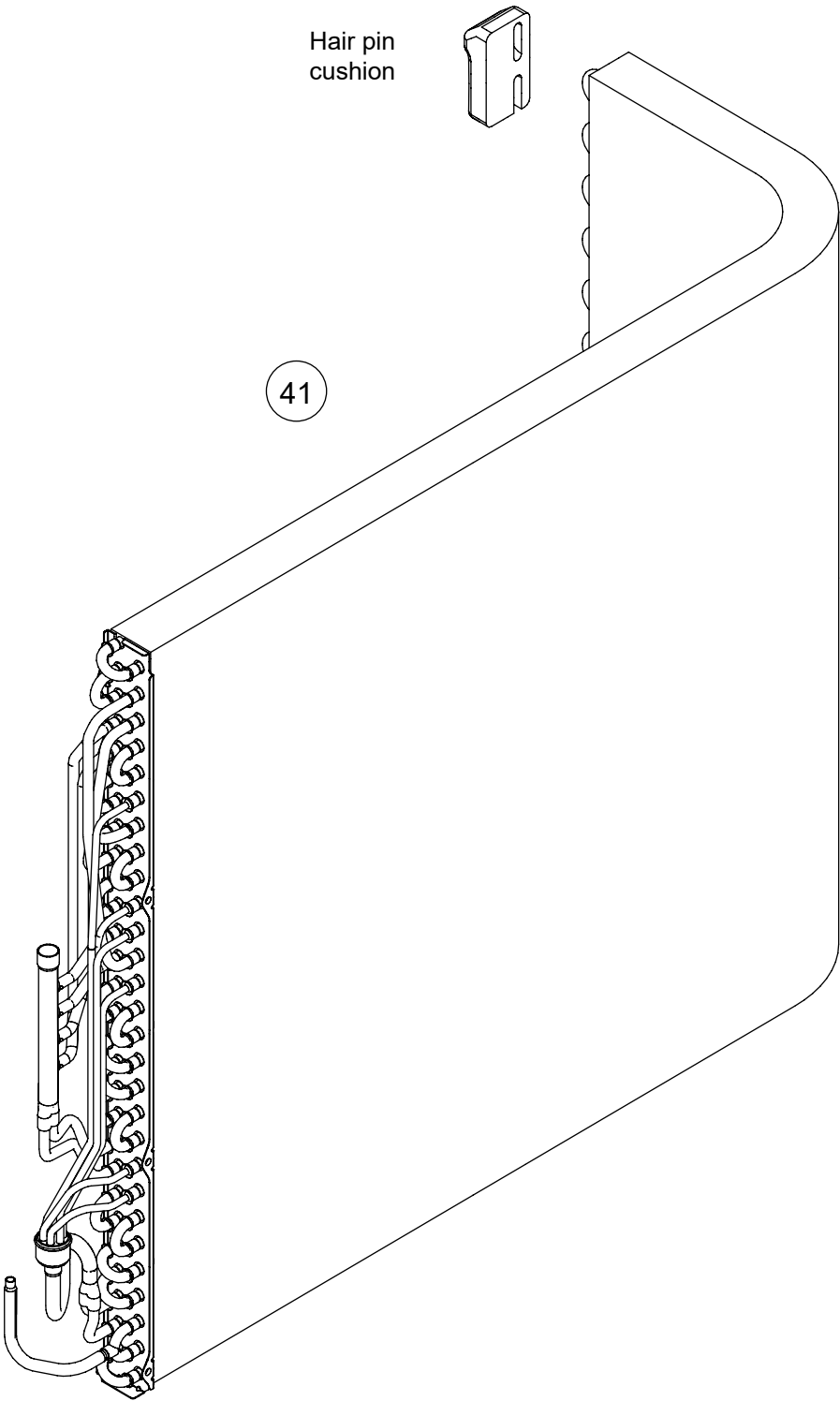
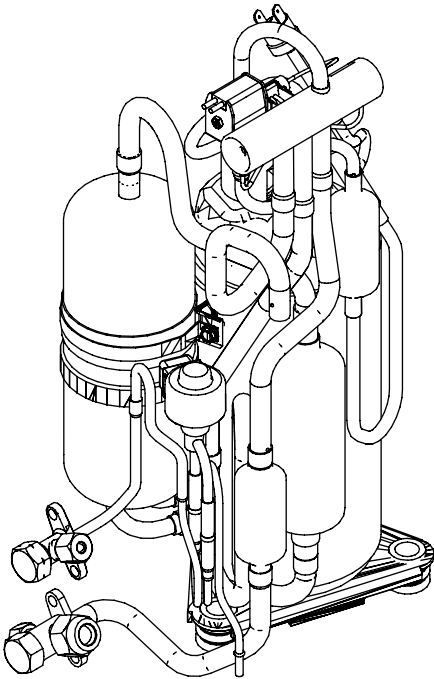
OUTDOOR UNIT  
AOHG24KLCA



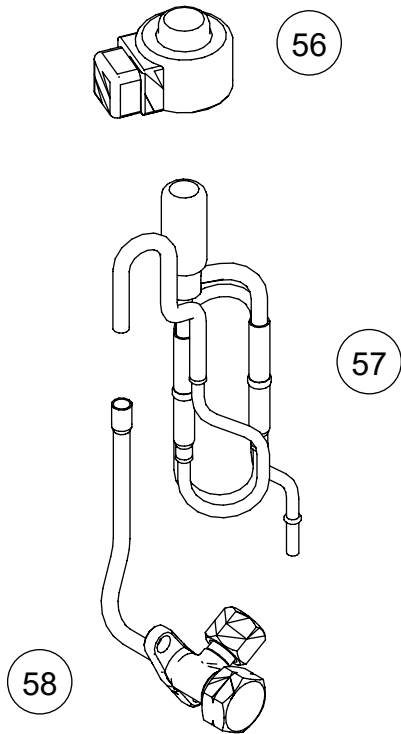
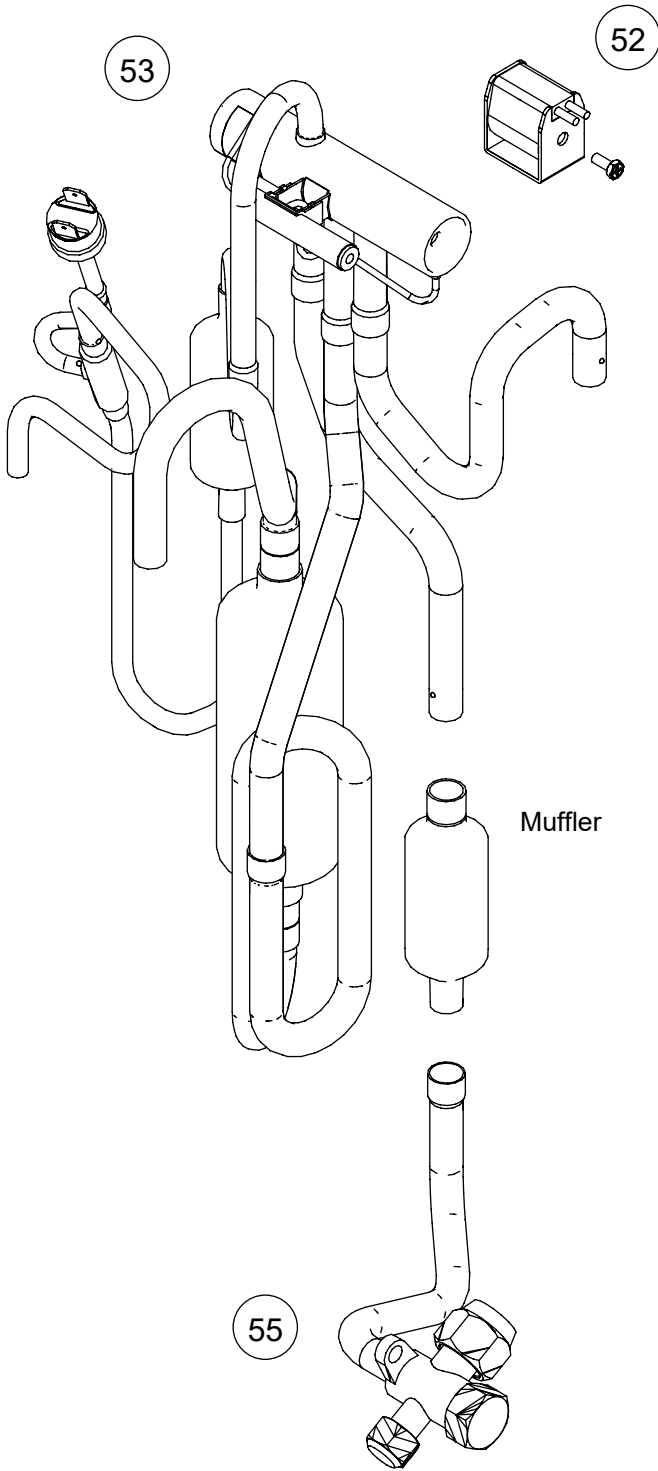
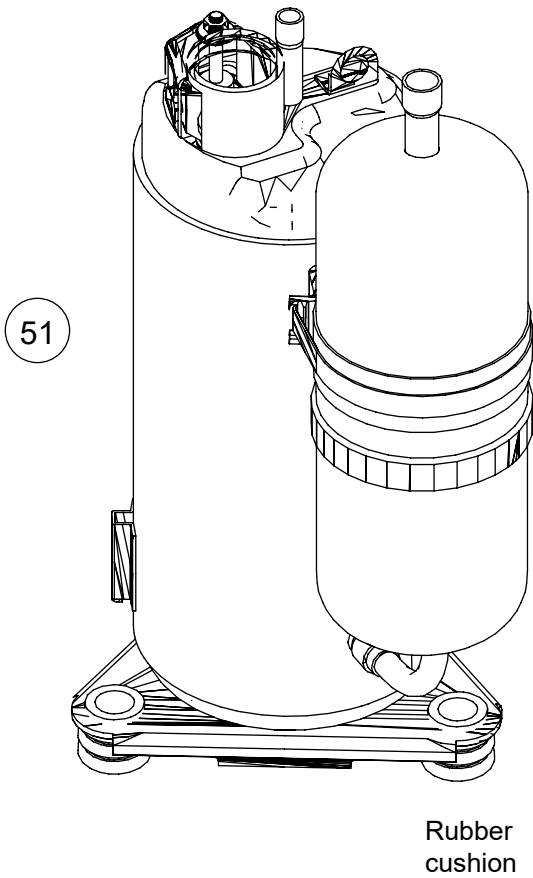
Ref.	Description	Part number
31	Main PCB, service unit ( Integrated with terminal )	9709684221
32	Heatsink	9322420039
33	Thermistor assy	9900727079
34	Compressor thermistor	9900985011

OUTDOOR UNIT  
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Ref.	Description	Part number
41	Condenser total assy	9317089654
-	S-insulator B	9322503008
-	S-insulator F	9322847003
-	S-insulator H	9322501004
-	S-insulator V	9323045002
-	S-insulator K	9322824004



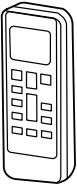

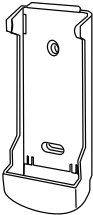
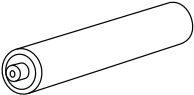
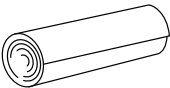
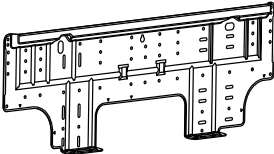
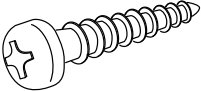
OUTDOOR UNIT  
AOHG24KLCA



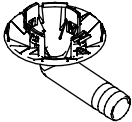
Ref.	Description	Part number
51	Compressor	9810521002
52	Solenoid	9970195006
53	4-way valve assy	9383129001
55	3-way valve assy	9387831016
56	Expansion valve coil	9970095122
57	Pulse motor valve assy	9322463005
58	2-way valve assy	9322474001

# ACCESSORIES

INDOOR UNIT  
ASHG18KLCA  
ASHG24KLCA

Accessories	Q'ty	Accessories	Q'ty
Remote control 	1	Tapping screw (small) 	2
Remote control holder 	1	Battery 	2
Cloth tape 	1	Wall hook bracket 	1
Tapping screw (big) 	5		

OUTDOOR UNIT  
AOHG18KLCA  
AOHG24KLCA

Accessories	Q'ty
Drain pipe   For drain piping work	1

