

SERVICE MANUAL



Indoor unit	Outdoor unit
AUXG09KVLA	AOYG09KBTB
AUXG12KVLA	AOYG12KBTB
AUXG14KVLA	AOYG14KBTB
AUXG18KVLA	AOYG18KBTB
AUXG22KVLA	AOYG22KBTB
UTG-UFYF-W	

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Specifications (Indoor unit)

Type				Cassette			
				Inverter heat pump			
Model name				AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	
Power supply				230 V ~ 50 Hz			
Power supply intake				Outdoor unit			
Available voltage range				198—264 V			
Capacity	Cooling	Rated	kW	2.50	3.50	4.30	
			Btu/h	8,500	11,900	14,700	
		Min.—Max.	kW	0.90—3.20	0.90—4.40	0.90—5.40	
			Btu/h	3,100—10,900	3,100—15,000	3,100—18,400	
	Heating	Rated	kW	3.20	4.10	5.00	
			Btu/h	10,900	13,400	17,000	
Min.—Max.		kW	0.90—4.70	0.90—5.70	0.90—6.50		
		Btu/h	3,100—16,000	3,100—19,400	3,100—22,200		
Input power	Cooling	Rated	kW	0.55	0.93	1.28	
		Max.		1.82	2.24	2.35	
	Heating	Rated		0.79	1.08	1.32	
		Max.		1.82	2.24	2.35	
Current	Cooling	Rated	A	2.9	4.1	5.6	
	Heating			4.0	4.8	5.8	
Power factor	Cooling			%	82.5	98.6	99.4
	Heating				85.9	97.8	99.0
EER	Cooling			kW/kW	4.57	3.76	3.36
COP	Heating				4.05	3.80	3.79
Moisture removal			L/h (pints/h)	0.6 (1.1)	1.2 (2.1)	1.5 (2.6)	
Maximum operating current *1		Cooling		A	7.9	9.7	10.2
		Heating			7.9	9.7	10.2
Fan	Airflow rate	Cooling	HIGH	m³/h	540	600	680
			MED		490	530	580
			LOW		440	470	490
			QUIET		390	410	410
		Heating	HIGH		540	600	800
			MED		490	530	680
			LOW		440	470	580
			QUIET		390	410	450
	Type × Q'ty			Turbo × 1			
	Motor output			W			
Sound pressure level *2		Cooling	HIGH	dB (A)	33	37	38
			MED		31	34	34
			LOW		29	30	30
			QUIET		27	27	27
		Heating	HIGH		34	37	43
			MED		32	34	38
			LOW		29	31	34
			QUIET		27	29	30
Heat exchanger type	Dimensions (H × W × D)		mm	210 × 1,310 × 13.3			
	210 × 1,250 × 13.3						
	Fin pitch			1.2			
	Rows × Stages			2 × 10			
	Pipe type			Copper tube			
Fin type			Aluminum				
Dimensions (H × W × D)	Net		mm	245 × 570 × 570			
	Gross			265 × 730 × 625			
Weight	Net		kg	15			
	Gross			19			
Connection pipe	Size	Liquid	mm (in)	Ø 6.35 (Ø1/4)			
		Gas		Ø9.52 (Ø3/8)			
	Method			Flare			
Operation range	Cooling		°C	18 to 32			
			%RH	80 or less			
	Heating		°C	16 to 30			
Cassette grille (Grid type: Option)	Material			Polystyrene			
	Color			White			
				Approximate color of Munsell 9PB 9.1/0.2			
	Dimensions (H × W × D)	Net	mm	49 × 620 × 620			
		Gross		120 × 765 × 755			
	Weight	Net	kg	2.3			
Gross		4.5					
Remote control (Option)				Wired remote controller, Wireless remote controller, Mobile app*3 (FGLair™)			
Drain hose	Material			PVC			
	Size		mm	VP25 [Ø25(I.D.),Ø32(O.D.)]			

NOTES:

- Specifications are based on the following conditions:
 - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.
 - Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB.
 - Pipe length: 5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- *1: Maximum operating current is the total current of the indoor unit and the outdoor unit.
- *2: Sound pressure level:
 - Measured values in manufacturer's anechoic chamber.
 - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.
- *3: Available on Google Play™ store or on App Store®. Optional WLAN adapter is also required. For details, refer to the setting manual.

Specifications for Er Lot10						
Model name				AUXG09KVLA	AUXG12KVLA	AUXG14KVLA
Energy efficiency class	Cooling			A		
	Heating (Average)			A		
Pdesign	Cooling	kW		2.5 (35°C)	3.5 (35°C)	4.3 (35°C)
	Heating (Average)			2.6 (10°C)	3.4 (10°C)	3.8 (10°C)
SEER	Cooling	kWh/kWh		6.70	6.60	6.50
SCOP	Heating (Average)			4.40	4.30	4.40
Annual energy consumption	QCE		kWh/a	131	186	231
	QHE (Average)			826	1,106	1,208
Sound power level	Cooling	HIGH	dB (A)	46	49	50
	Heating			47	49	55

Type				Cassette		
				Inverter heat pump		
Model name				AUXG1 KVLA	AUXG22KVLA	
Power supply				230 V ~ 50 Hz		
Power supply intake				Outdoor unit		
Available voltage range				198—264 V		
Capacity	Cooling	Rated	kW	5.20	6.00	
			Btu/h	17,700	20,500	
		Min.—Max.	kW	0.90—5.90	0.90—6.70	
			Btu/h	3,100—20,100	3,100—22,900	
	Heating	Rated	kW	6.00	7.00	
			Btu/h	20,500	23,900	
		Min.—Max.	kW	0.90—7.50	0.90—8.00	
			Btu/h	3,100—25,600	3,100—27,300	
Input power	Cooling	Rated	kW	1.60	1.82	
		Max.		2.79	2.90	
	Heating	Rated		1.66	1.87	
		Max.		2.79	2.90	
Current	Cooling	Rated	A	7.0	8.0	
	Heating			7.3	8.2	
Power factor	Cooling			99.4	98.9	
	Heating			98.9	99.2	
EER	Cooling			3.25	3.30	
COP	Heating			3.61	3.74	
Moisture removal			L/h (pints/h)	2.2 (3.9)	2.6 (4.6)	
Maximum operating current *1		Cooling		A	12.1	
		Heating			12.1	
Fan	Airflow rate	Cooling	HIGH	m³/h	680	830
			MED		580	740
			LOW		490	600
			QUIET		410	450
		Heating	HIGH		800	860
			MED		680	760
			LOW		580	700
			QUIET		450	530
	Type × Q'ty			Turbo × 1		
	Motor output			W		
Sound pressure level *2		Cooling	HIGH	dB (A)	38	44
			MED		34	42
			LOW		30	36
			QUIET		26	30
		Heating	HIGH		43	45
			MED		38	43
			LOW		34	40
			QUIET		30	33
Heat exchanger type	Dimensions (H × W × D)		mm	210 × 1,310 × 13.3 210 × 1,250 × 13.3	210 × 1,360 × 13.3 210 × 1,295 × 13.3 210 × 1,235 × 13.3	
	Fin pitch			1.2	1.45	
	Rows × Stages			2 × 10	3 × 10	
	Pipe type			Copper tube		
	Fin type			Aluminum		
Dimensions (H × W × D)	Net		mm	245 × 570 × 570		
	Gross			265 × 730 × 625		
Weight	Net		kg	15	16	
	Gross			19	20	
Connection pipe	Size	Liquid	mm (in)	Ø 6.35 (Ø1/4)		
		Gas		Ø12.70 (Ø1/2)		
	Method			Flare		
Operation range	Cooling		°C	18 to 32		
			%RH	80 or less		
	Heating		°C	16 to 30		
Cassette grille (Grid type: Option)	Material			Polystyrene		
	Color			White		
				Approximate color of Munsell 9PB 9.1/0.2		
	Dimensions (H × W × D)	Net	mm	49 × 620 × 620		
		Gross		120 × 765 × 755		
	Weight	Net	kg	2.3		
Gross		4.5				
Remote control (Option)				Wired remote controller, Wireless remote controller, Mobile app*3 (FGLair™)		
Drain hose		Material		PVC		
		Size		VP25 [Ø25(I.D.), Ø32(O.D.)]		

NOTES:

- Specifications are based on the following conditions:
 - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.
 - Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB.
 - Pipe length: 5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- *1: Maximum operating current is the total current of the indoor unit and the outdoor unit.
- *2: Sound pressure level:
 - Measured values in manufacturer's anechoic chamber.
 - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.
- *3: Available on Google Play™ store or on App Store®. Optional WLAN adapter is also required. For details, refer to the setting manual.

Specifications for Er Lot10					
Model name			AUXG1 KVLA		AUXG22KVLA
Energy efficiency class	Cooling		A		
	Heating (Average)		A		
Pdesign	Cooling	kW	5.2 (35°C)	6.0 (35°C)	
	Heating (Average)		4.4 (10°C)	4.8 (10°C)	
SEER	Cooling	kWh/kWh	6.60	6.60	
SCOP	Heating (Average)		4.20	4.30	
Annual energy consumption	QCE		275	318	
	QHE (Average)		1,466	1,562	
Sound power level	Cooling	HIGH	dB (A)	50	56
	Heating			55	57

Specifications (Outdoor unit)

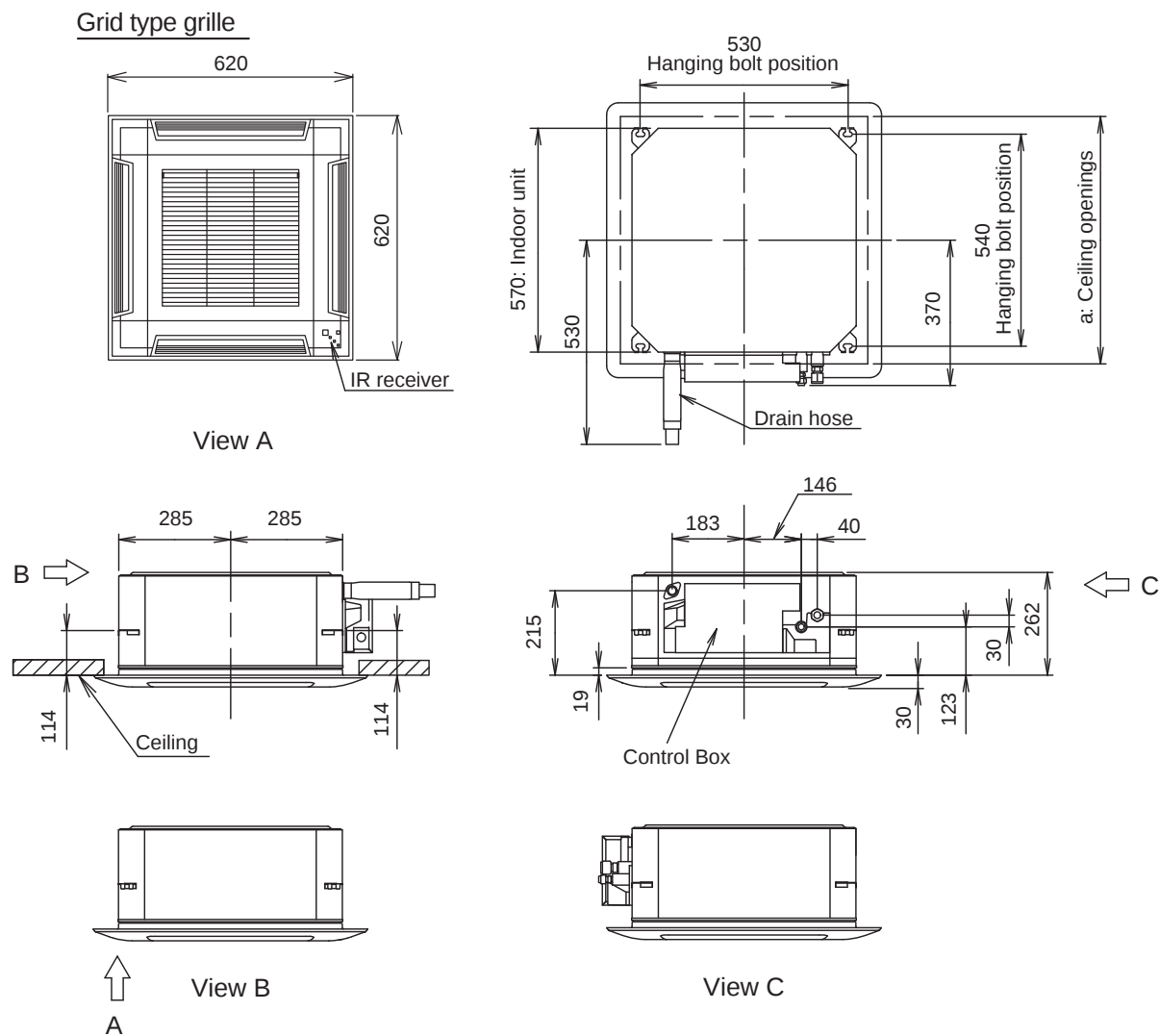
Type				Inverter heat pump			
Model name				AO G09K T	AO G12K T	AO G14K T	
Power supply				230 V ~ 50 Hz			
Available voltage range				198—264 V			
Starting current				4.0	4.8	5.8	
Fan	Airflow rate	Cooling	m³/h	1,480	1,580	1,670	
		Heating		1,410	1,520	1,580	
	Type × Q'ty			Propeller fan × 1			
	Motor output		W	23			
Sound pressure level *1		Cooling	dB (A)	46	47	49	
		Heating		46	47	49	
Sound power level		Cooling	dB (A)	59	61	62	
		Heating		59	61	62	
Heat exchanger type		Dimensions (H × W × D)	mm	504 × 881 × 18.19			
		Fin pitch		504 × 851 × 18.19			
		Rows × Stages			1.3		
		Pipe type			2 × 24		
		Fin type		Type (Material)	Copper		
				Surface treatment	Aluminum PC fin		
Compressor	Type × Q'ty			DC rotary × 1	DC Twin rotary × 1		
	Motor output	W	900	810	900		
Refrigerant		Type (Global warming potential)		R32 (675)			
		Charge	g	850			
Refrigerant oil		Type		RB68A	FW68S		
		Amount	cm³	340	350		
Enclosure		Material		Steel sheet			
		Color		Beige Approximate color of Munsell 10 R 7.5/1.0			
Dimensions (H × W × D)	Net		mm	542 × 799 × 290			
	Gross			602 × 940 × 375			
Weight	Net		kg	32	33		
	Gross			35	37		
Connection pipe	Size	Liquid	mm (in)	Ø 6.35 (Ø 1/4)			
		Gas		Ø 9.52 (Ø 3/8)			
	Method			Flare			
	Pre charge length		m	15			
	Max. length			20	25		
	Max. height difference			15	20		
Operation range		Cooling	°C	15 to 46			
		Heating		15 to 24			
Drain hose		Material		PP			
		Size	mm	Ø 13.0 (I. D.), Ø 16.0 to Ø 16.8 (O. D.)			
NOTES:							
- Specifications are based on the following conditions: - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB. - Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB. - Pipe length: 5 m, Height difference: 0 m. - Protective function might work when using it outside the operation range. *1: Sound pressure level - Measured values in manufacturer's anechoic chamber. - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.							

Type				Inverter heat pump				
Model name				AO G1 K T		AO G22K T		
Power supply				230 V ~ 50 Hz				
Available voltage range				198—264 V				
Starting current			A	7.1		8.2		
Fan	Airflow rate	Cooling	m³/h	2,160		2,240		
		Heating		1,830		1,960		
		Type × Q'ty		Propeller fan × 1				
	Motor output		W	49				
Sound pressure level *1		Cooling	dB (A)	50		51		
		Heating		50		51		
Sound power level		Cooling	dB (A)	62		63		
		Heating		62		63		
Heat exchanger type		Dimensions (H × W × D)	mm	588 × 881 × 18.19 588 × 851 × 18.19		588 × 881 × 18.19 588 × 851 × 18.19		
		Fin pitch		1.3				
		Rows × Stages			2 × 28		2 × 28	
		Pipe type			Copper			
		Fin type		Type (Material)	Corrugate (Aluminum)			
				Surface treatment	*PC fin*		Corrosion resistance	
Compressor	Type × Q'ty			DC Twin rotary × 1				
	Motor output		W	900		1,060		
Refrigerant		Type (Global warming potential)		R32 (675)				
		Charge	g	1,020		1,250		
Refrigerant oil		Type		FW68S		RmM68AF		
		Amount	cm³	350		400		
Enclosure		Material		Steel sheet				
		Color		Beige Approximate color of Munsell 10 R 7.5/1.0				
Dimensions (H × W × D)	Net		mm	632 × 799 × 290				
	Gross			692 × 940 × 375				
Weight	Net		kg	36		38		
	Gross			40		42		
Connection pipe	Size	Liquid	mm (in)	Ø 6.35 (Ø 1/4)				
		Gas		Ø 12.70 (Ø 1/2)				
	Method			Flare				
	Pre charge length		m	20				
	Max. length			30				
	Max. height difference			20		25		
Operation range		Cooling	°C	15 to 46				
		Heating		15 to 24				
Drain hose		Material		PP				
		Size	mm	Ø 13.0 (I. D.), Ø 16.0 to Ø 16.8 (O. D.)				
NOTES: - Specifications are based on the following conditions: - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB. - Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB. - Pipe length: 5 m, Height difference: 0 m. - Protective function might work when using it outside the operation range. *1: Sound pressure level - Measured values in manufacturer's anechoic chamber. - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.								

imensions

Models: AUXG09KVLA AUXG12KVLA AUXG14KVLA
AUXG1 KVLA and AUXG22KVLA

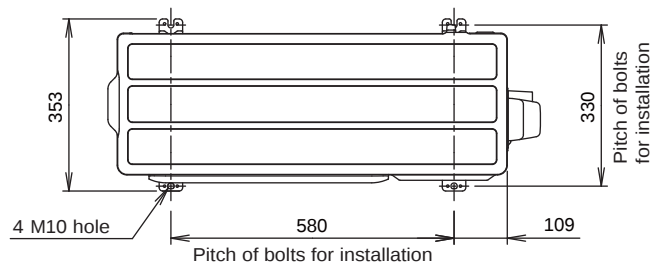
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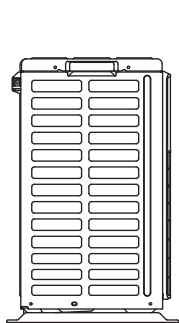
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Cassette grille (Option [Grid type])	mm	580 to 610

Models: AO G09K T AO G12K T and AO G14K T

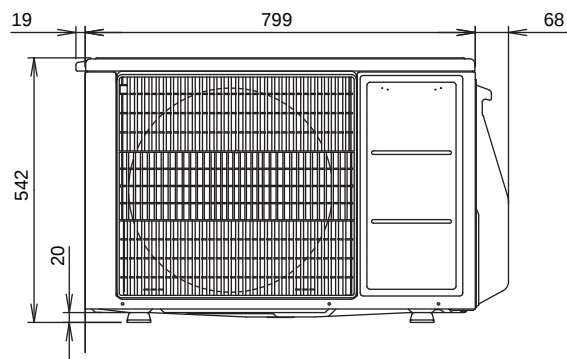
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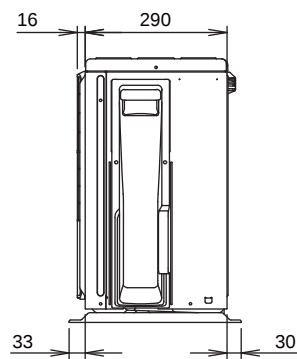
Top view



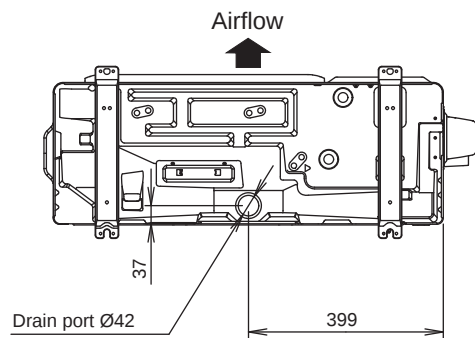
Side view



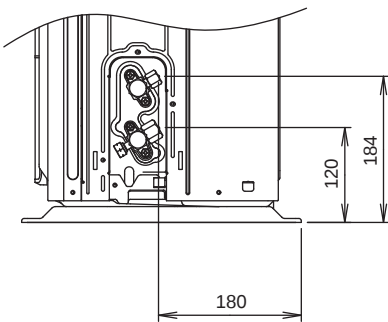
Front view



Side view



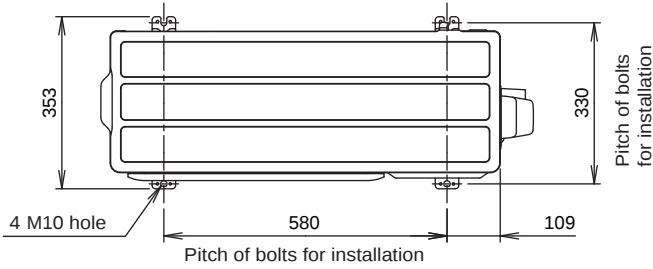
Bottom view



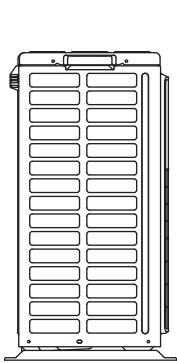
Side view (Valve part)

Models: AO G1 K T and AO G22K T

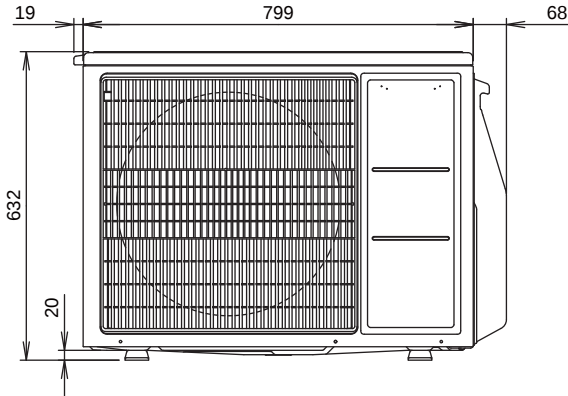
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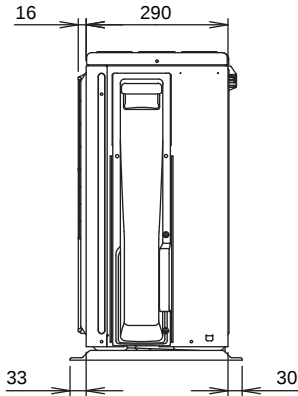
Top view



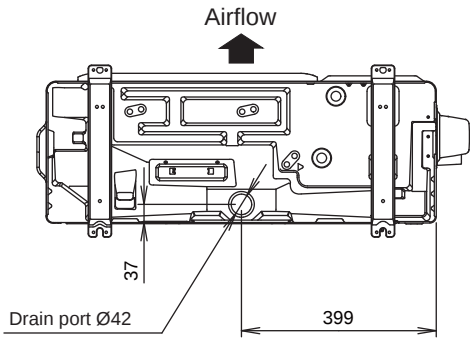
Side view



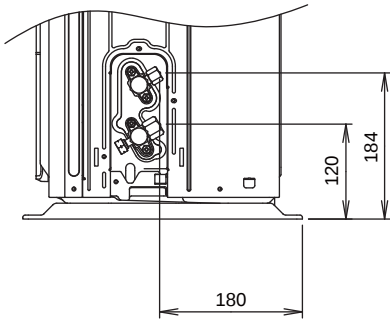
Front view



Side view



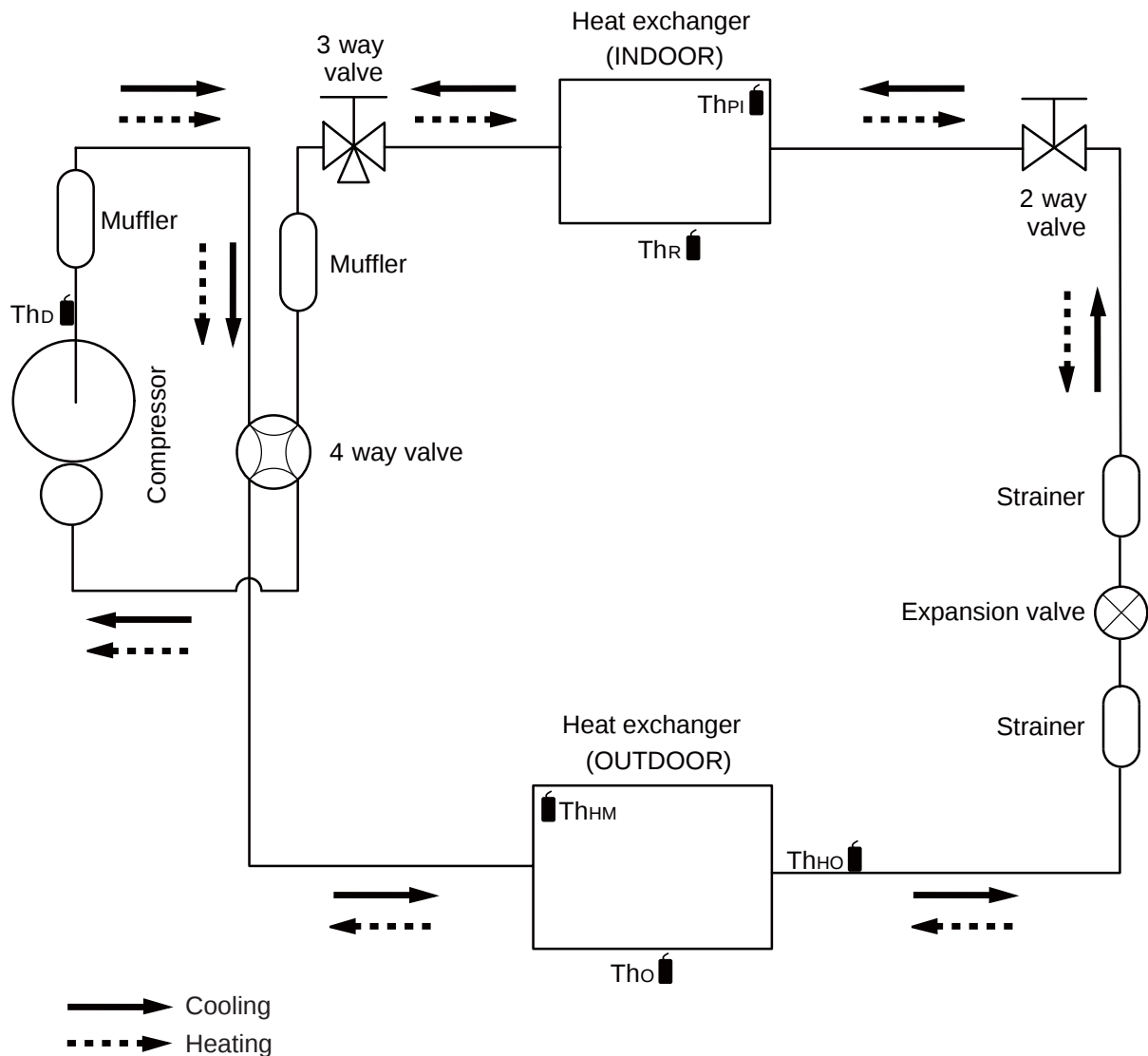
Bottom view



Side view (Valve part)

Refrigerant circuit

Models: AO G09K T AO G12K T and AO G14K T



Th_D : Thermistor (Discharge temperature)

Th_O : Thermistor (Outdoor temperature)

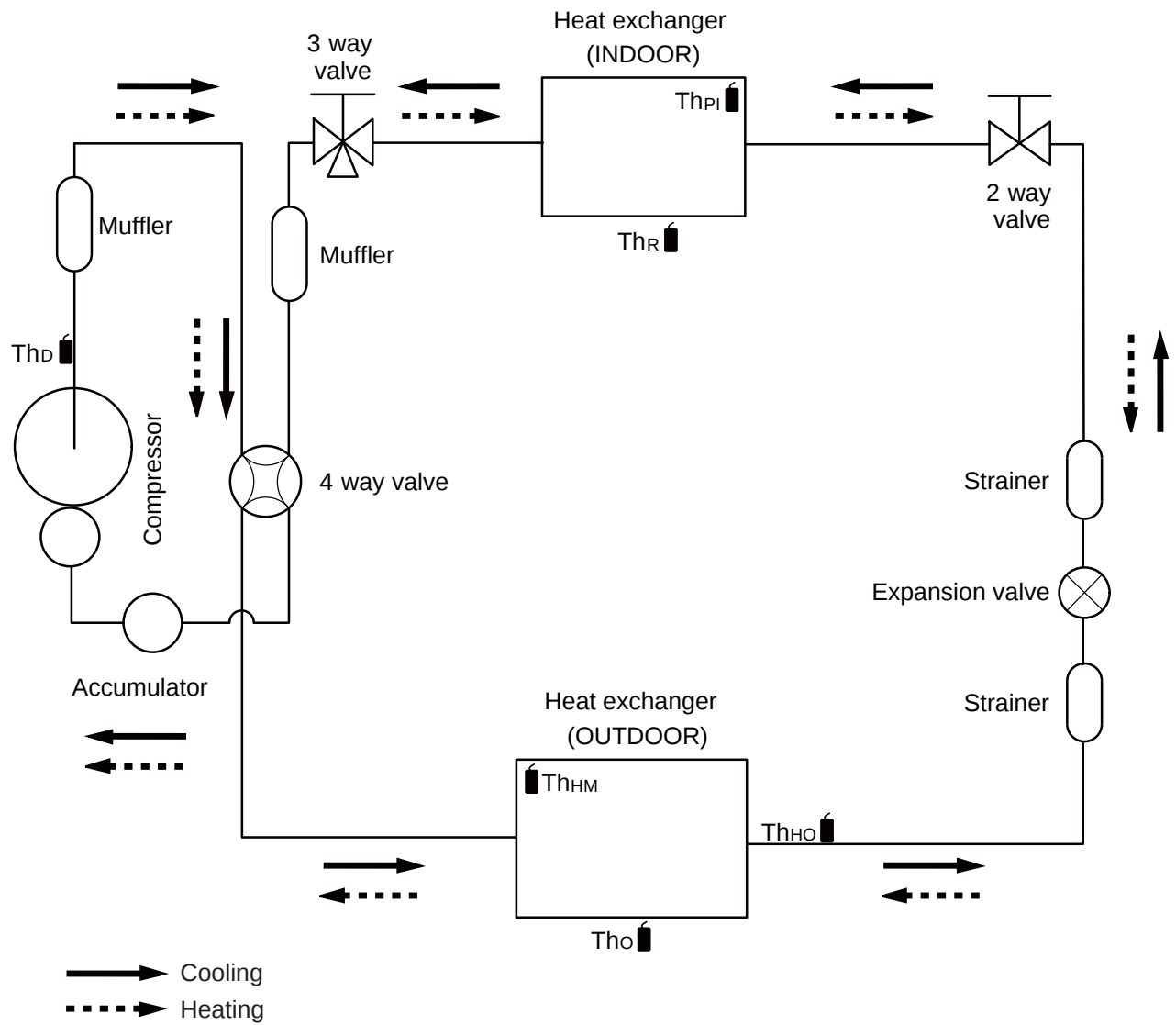
Th_{HO} : Thermistor (Heat exchanger out temperature)

Th_{HM} : Thermistor (Heat exchanger middle temperature)

Th_R : Thermistor (Room temperature)

Th_{PI} : Thermistor (Pipe temperature)

Model: AO G1 K T



Th_D : Thermistor (Discharge temperature)

Th_o : Thermistor (Outdoor temperature)

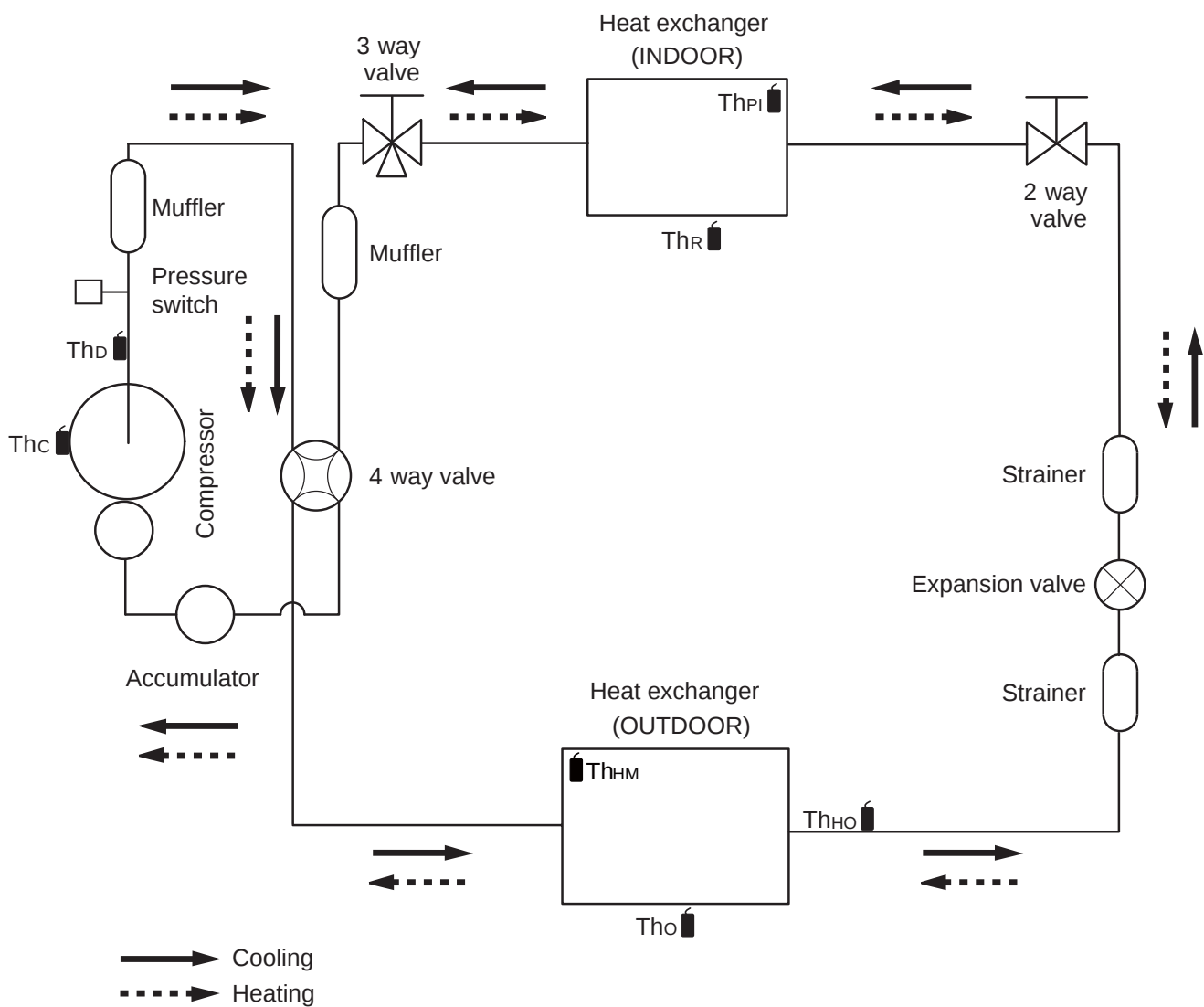
Th_{HO} : Thermistor (Heat exchanger out temperature)

Th_{HM} : Thermistor (Heat exchanger middle temperature)

Th_R : Thermistor (Room temperature)

Th_{PI} : Thermistor (Pipe temperature)

Model: AO G22K T

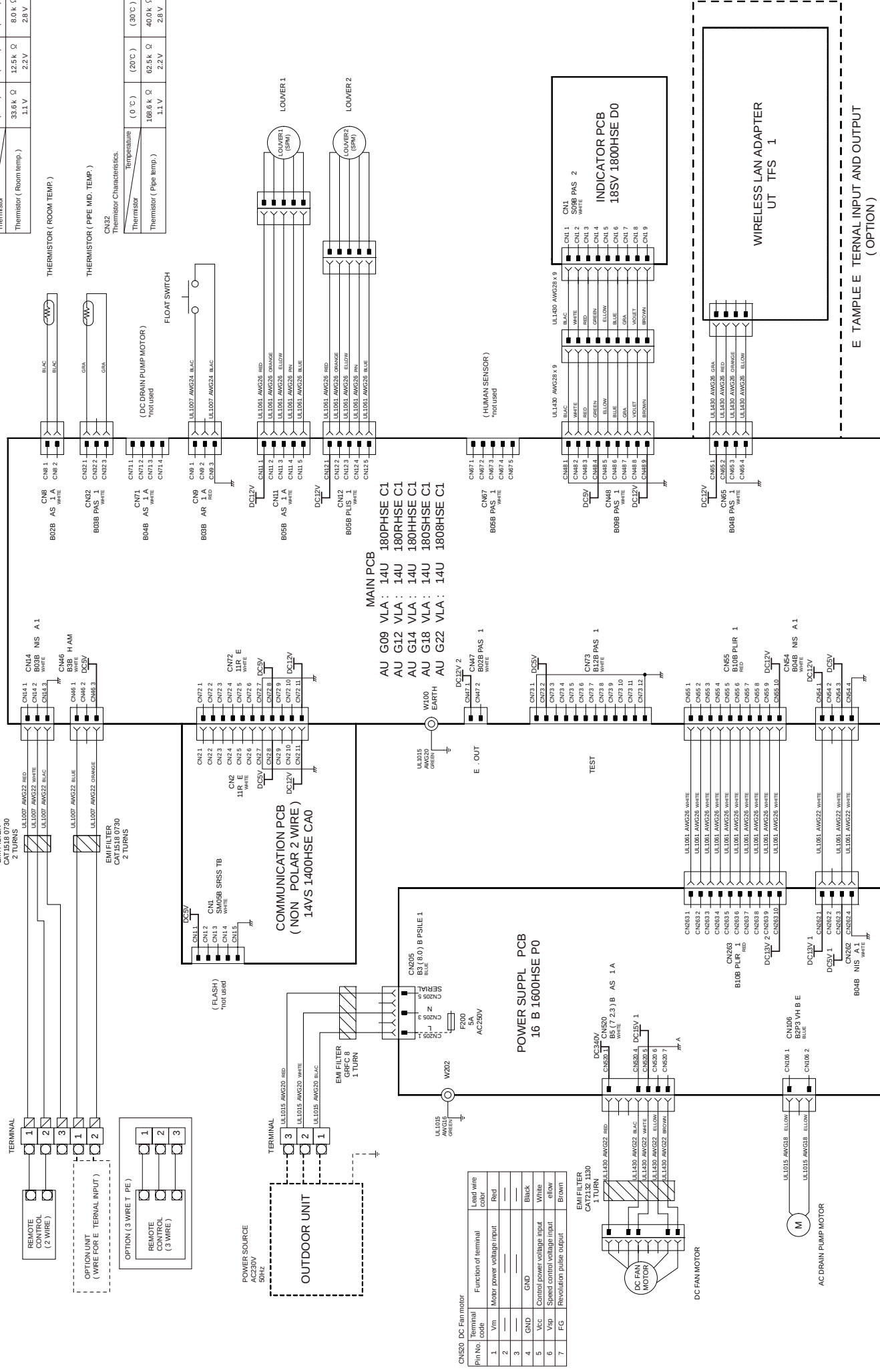


- Th_c : Thermistor (Compressor temperature)
 Th_d : Thermistor (Discharge temperature)
 Th_o : Thermistor (Outdoor temperature)
 Th_{HO} : Thermistor (Heat exchanger out temperature)
 Th_{HM} : Thermistor (Heat exchanger middle temperature)
 Th_R : Thermistor (Room temperature)
 Th_{PI} : Thermistor (Pipe temperature)



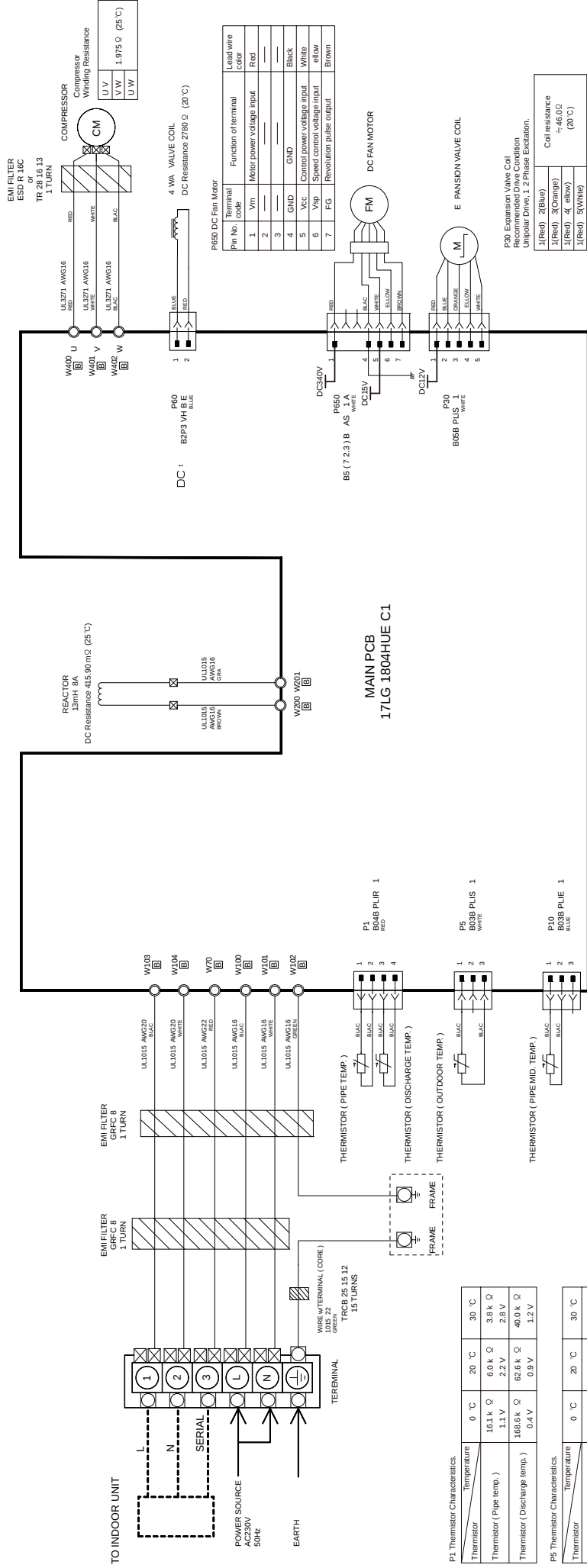
Thermistor Characteristics:		(0 °C)	(20 °C)	(30 °C)
Thermistor	Temperature			
Thermistor (Room temp.)		33.6 k Ω 11 V	12.5 k Ω 2.2 V	8.0 k Ω 2.8 V

Thermistor Characteristics.		(0 °C)	(20 °C)	(30 °C)
Thermistor	Temperature			
Thermistor (Pipe temp.)		168.6 k Ω 11 V	62.5 k Ω 2.2 V	40.0 k Ω 2.8 V



Model : AO G09 BTB

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P1 Thermistor Characteristics.

Thermistor	Temperature	0 °C	20 °C	30 °C
Thermistor (Pipe temp.)	161 k Ω	6.0 k Ω	3.8 k Ω	2.8 V
Thermistor (Discharge temp.)	168.8 k Ω	62.6 k Ω	40.0 k Ω	0.4 V
Thermistor (Discharge temp.)	0.4 V	0.9 V	1.2 V	

P5 Thermistor Characteristics.

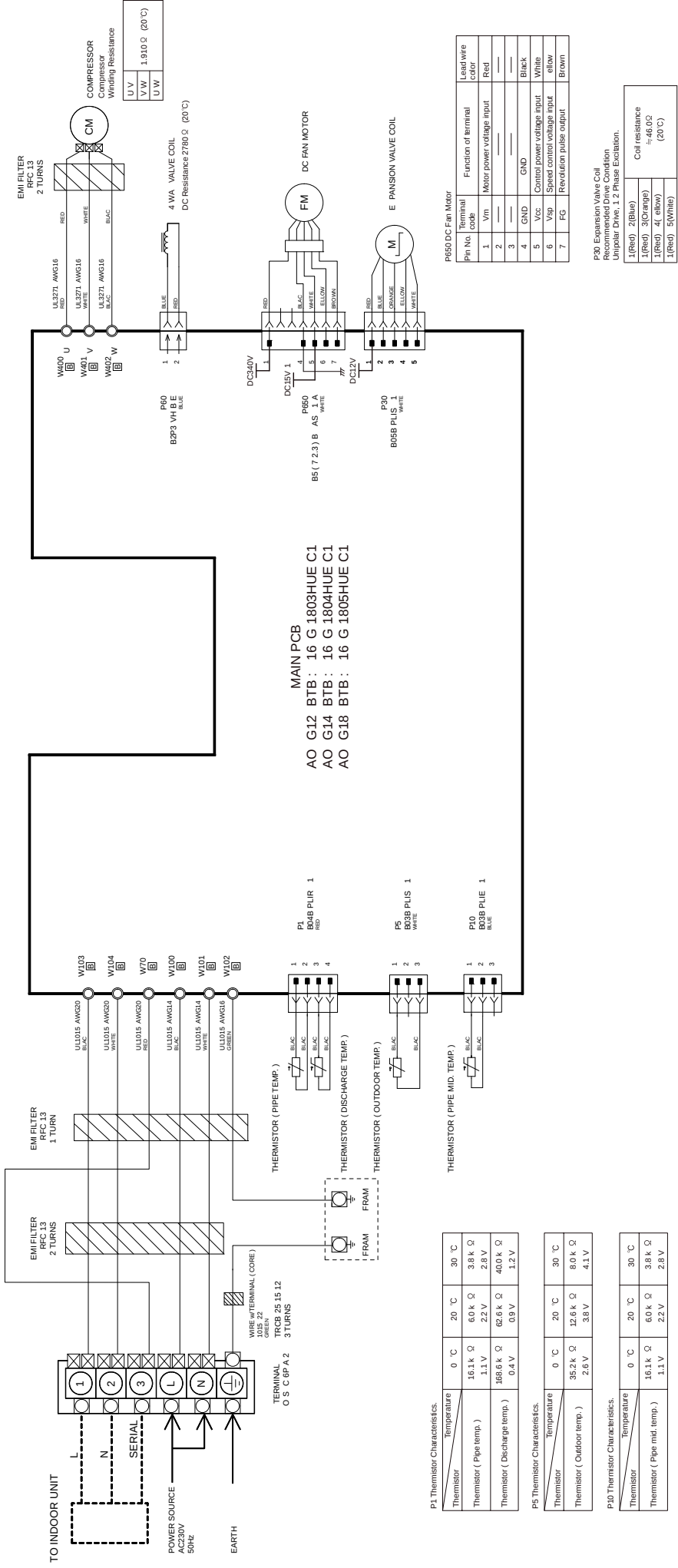
Thermistor	Temperature	0 °C	20 °C	30 °C
Thermistor (Outdoor temp.)	35.2 k Ω	12.6 k Ω	8.0 k Ω	3.8 V
Thermistor (Outdoor temp.)	2.6 V	3.8 V	4.1 V	

P10 Thermistor Characteristics.

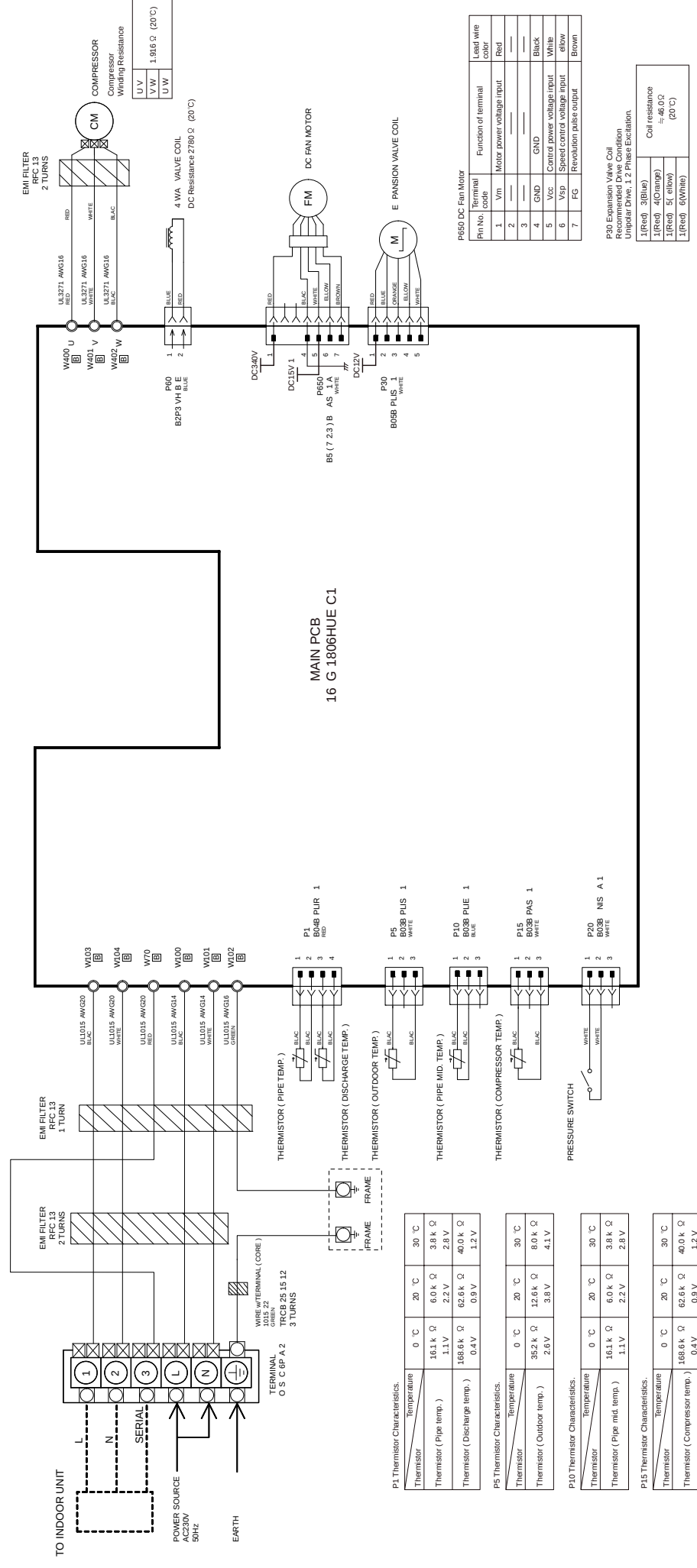
Thermistor	Temperature	0 °C	20 °C	30 °C
Thermistor (Pipe mid. temp.)	161 k Ω	6.0 k Ω	3.8 k Ω	2.8 V
Thermistor (Pipe mid. temp.)	1.1 V	2.2 V	2.8 V	

Models : AO G12 BTB
AO G14 BTB
AO G18 BTB

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AO G12 BTB : E 018SHUE
AO G14 BTB : E 018THUE
AO G18 BTB : E 018THUE



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E 0118 HUE



Error codes

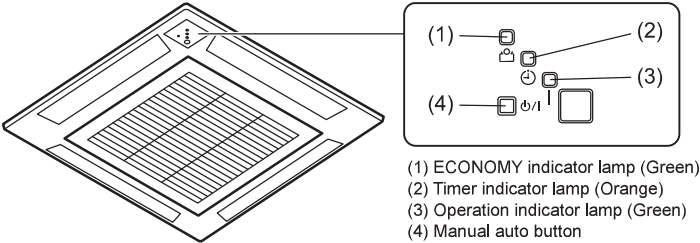
If you use a wireless remote controller, the lamp on the photo detector unit will output error codes by way of blinking patterns. If you use a wired remote controller, error codes will appear on the remote control display. Refer to the lamp blinking patterns and error codes in the table. An error display is displayed only during operation.

Error display			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 • Server room control communication error
●(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	• Connection unit number error (indoor secondary unit) [Simultaneous Multi] • Connection unit number error (indoor unit or branch unit) [Flexible Multi]
●(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)
●(5)	●(15)	◇	5U	Indoor unit error

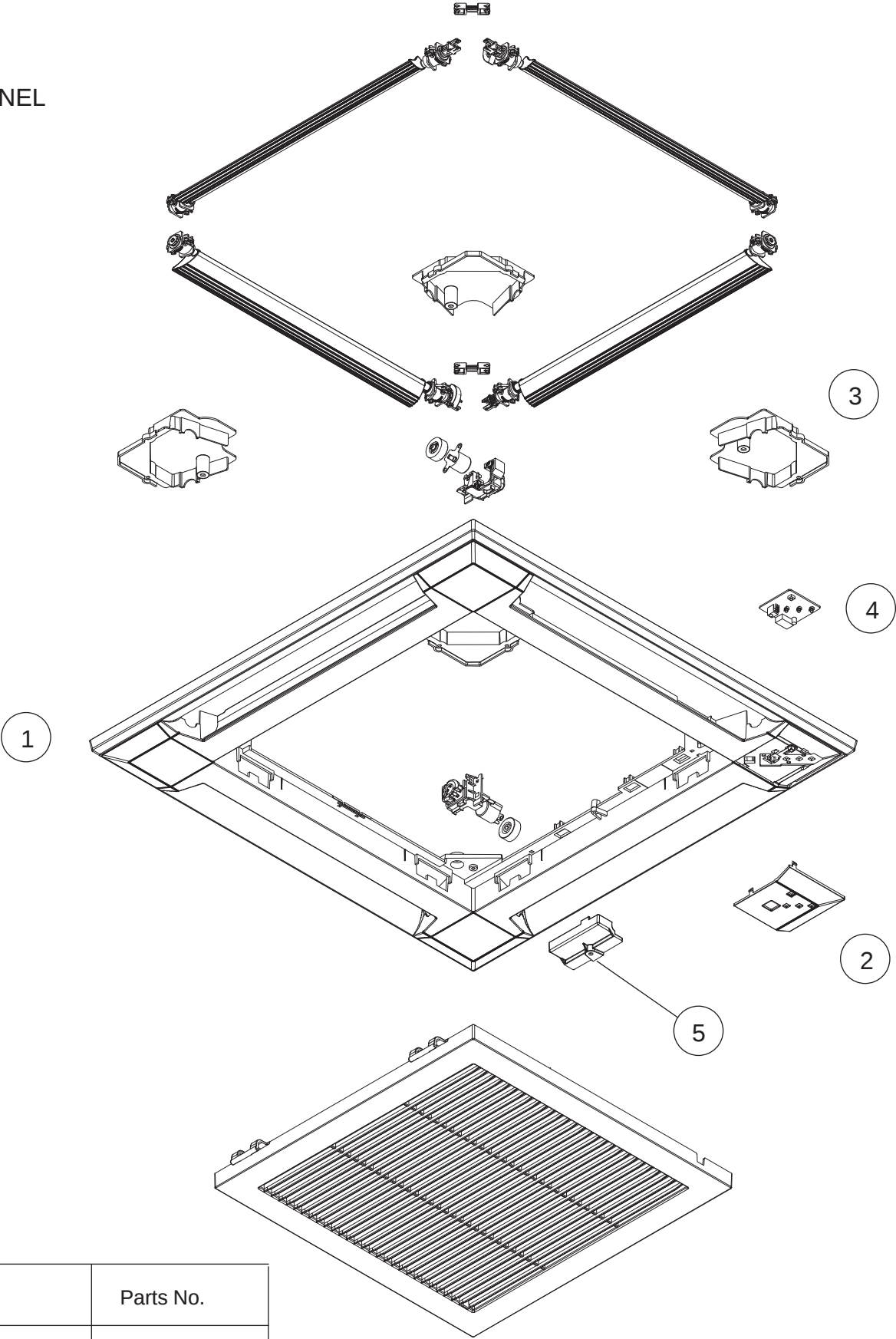
Error display			Error code	Description
OPERATION lamp (green)	TIMER lamp (orange)	ECONOMY lamp (green)		
●(6)	●(1)	◇	61	Outdoor unit reverse/missing phase and wiring error
●(6)	●(2)	◇	62	Outdoor unit main PCB model information error or communication error
●(6)	●(3)	◇	63	Inverter error
●(6)	●(4)	◇	64	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	• 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 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)	◇	J2	Branch boxes error [Flexible Multi]

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

Error display on the indoor unit

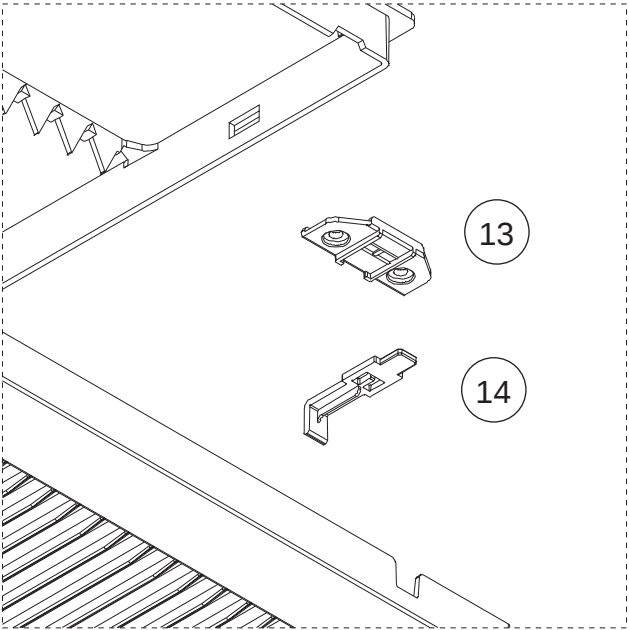
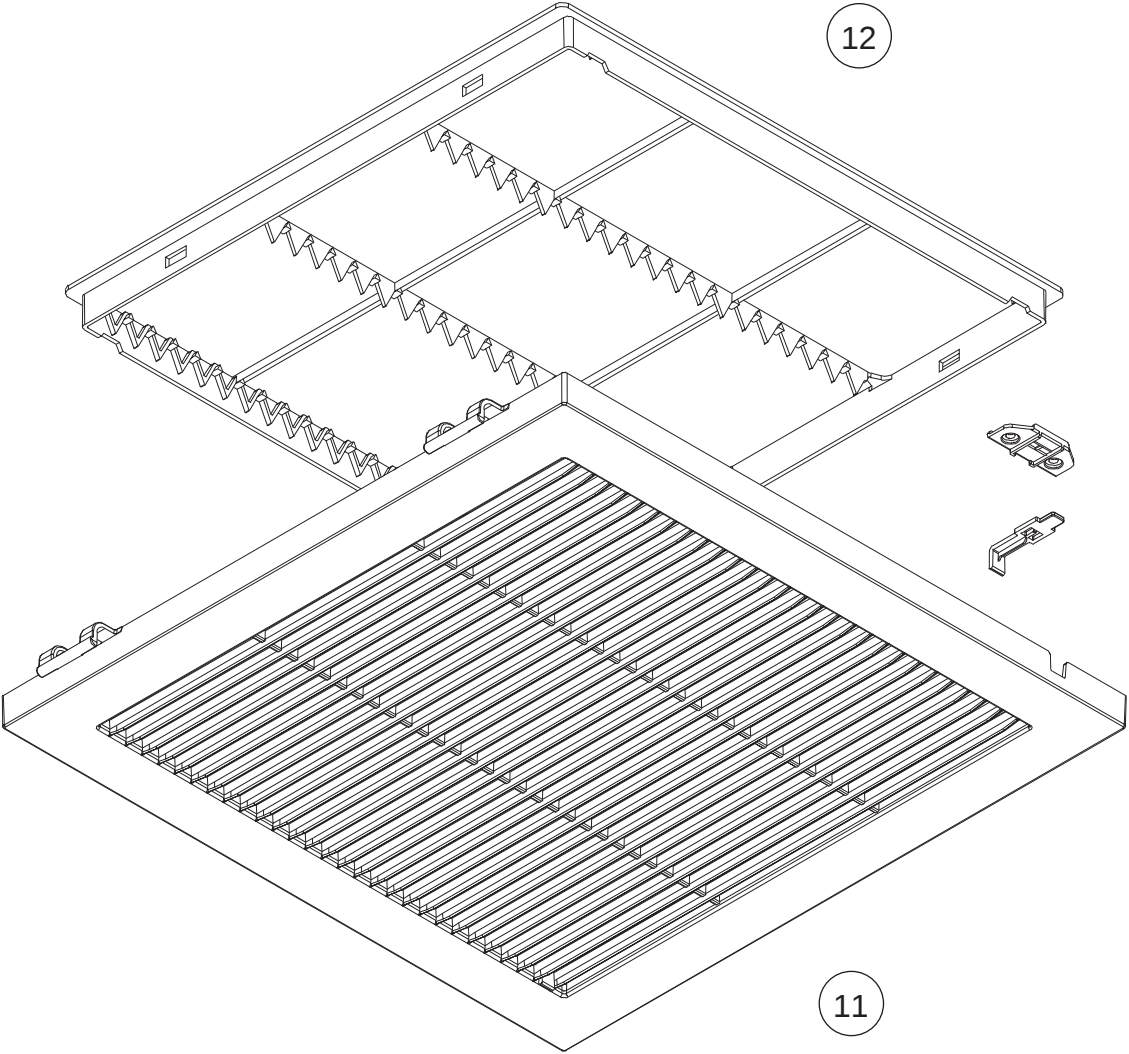


DECORATION PANEL
UTG-UFYF-W



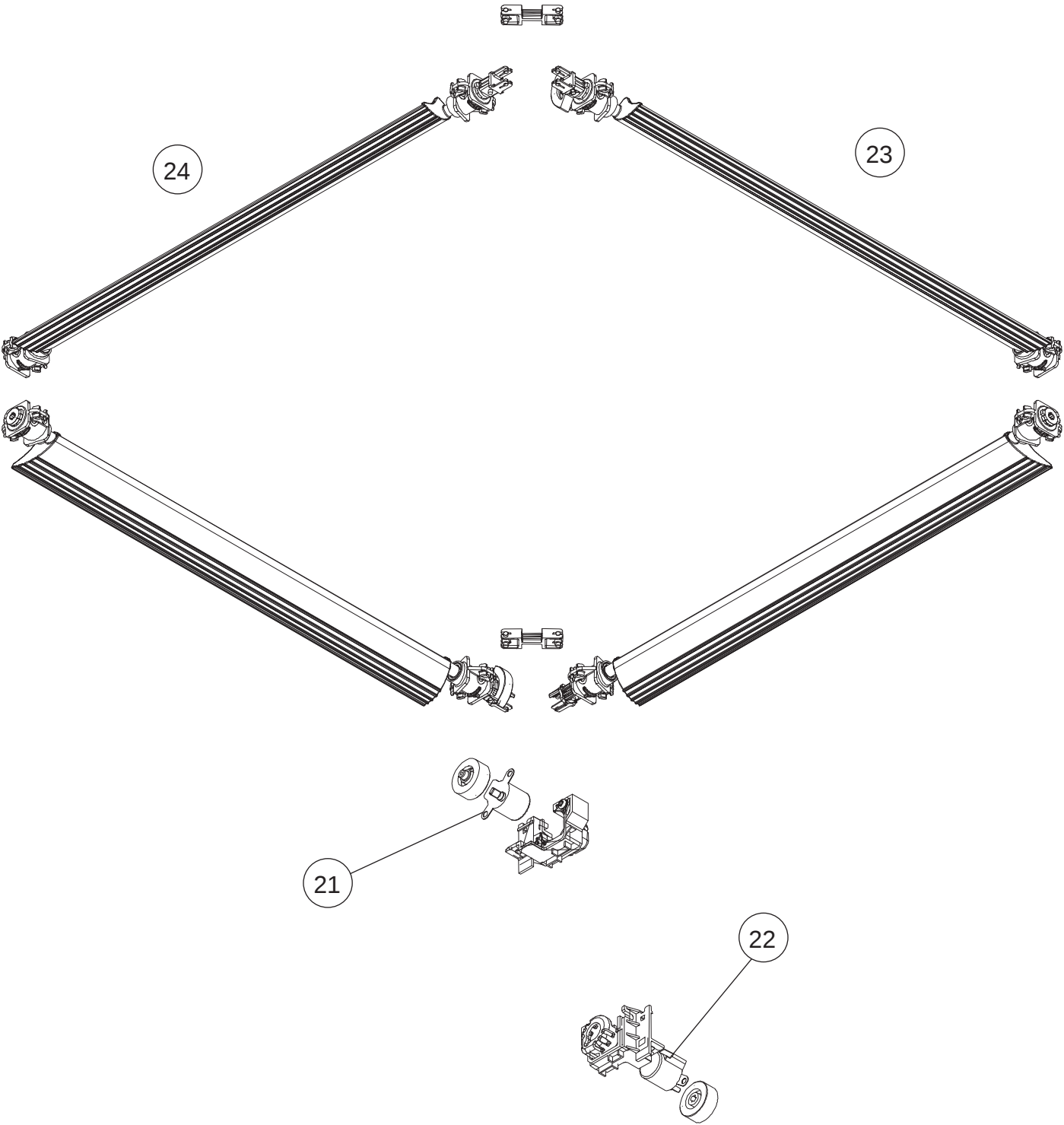
Ref	Description	Parts No.
1	Decoration Panel without Insulations	9382821005
2	Display panel assy	9383100031
3	Panel Cover without Insulations	9375530013
4	Indicator PCB	9711310002
5	Connector Cover	9375549015

DECORATION PANEL
UTG-UFYF-W
Intake grille assy



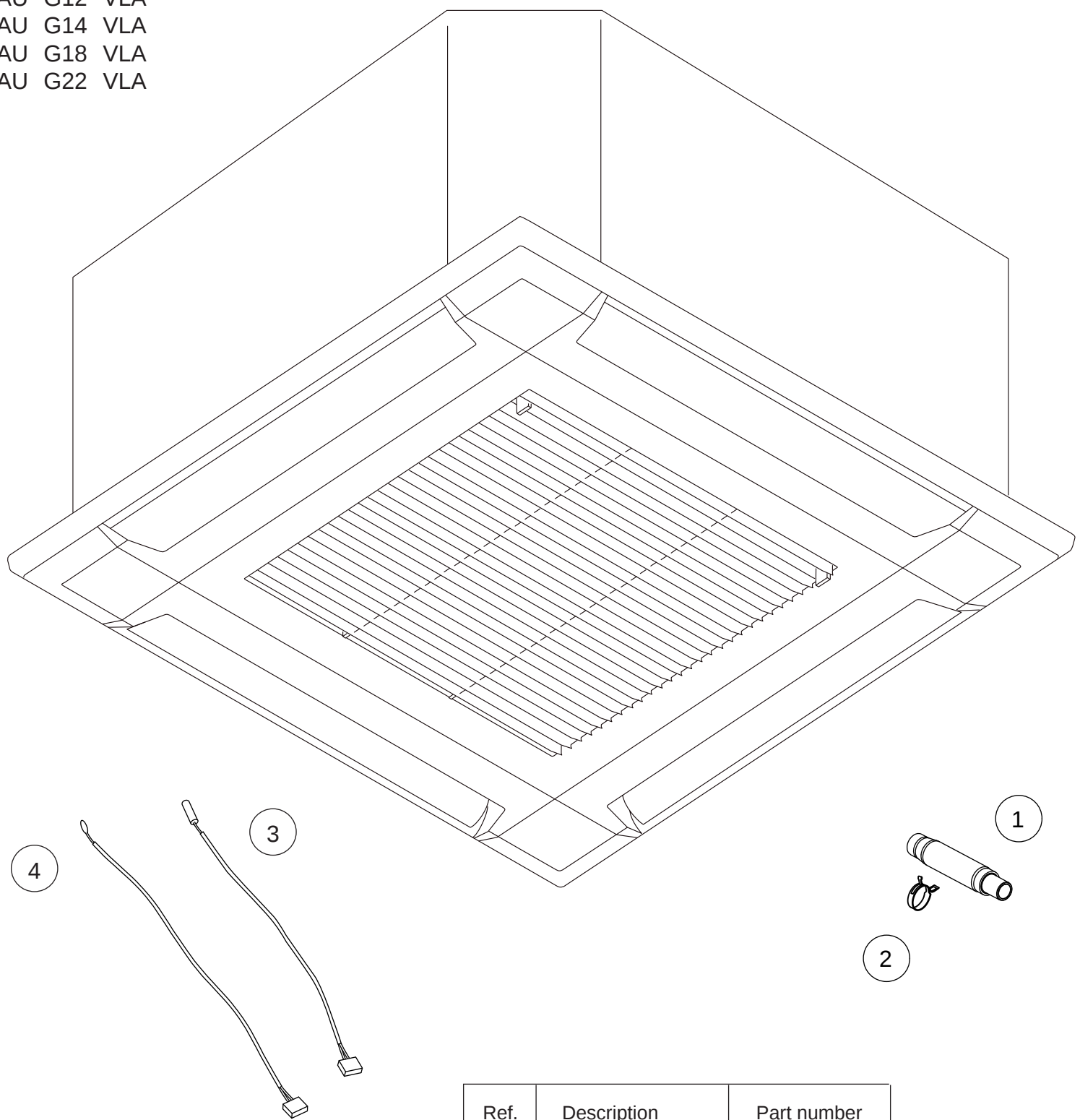
Ref	Description	Parts No.
11	Intake grille	9382863005
12	Long Life Filter	9375533014
13	Hook bracket	9375546014
14	Grille hook	9375532031

DECORATION PANEL
UTG-UFYF-W



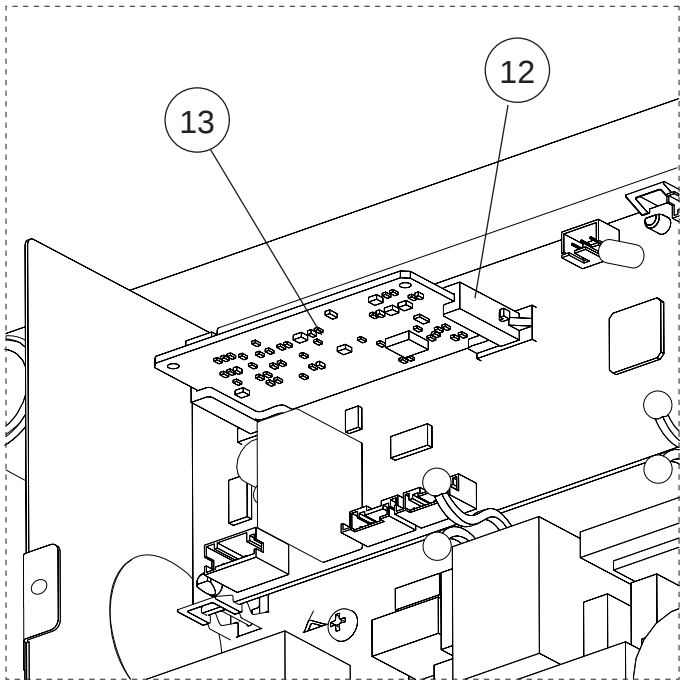
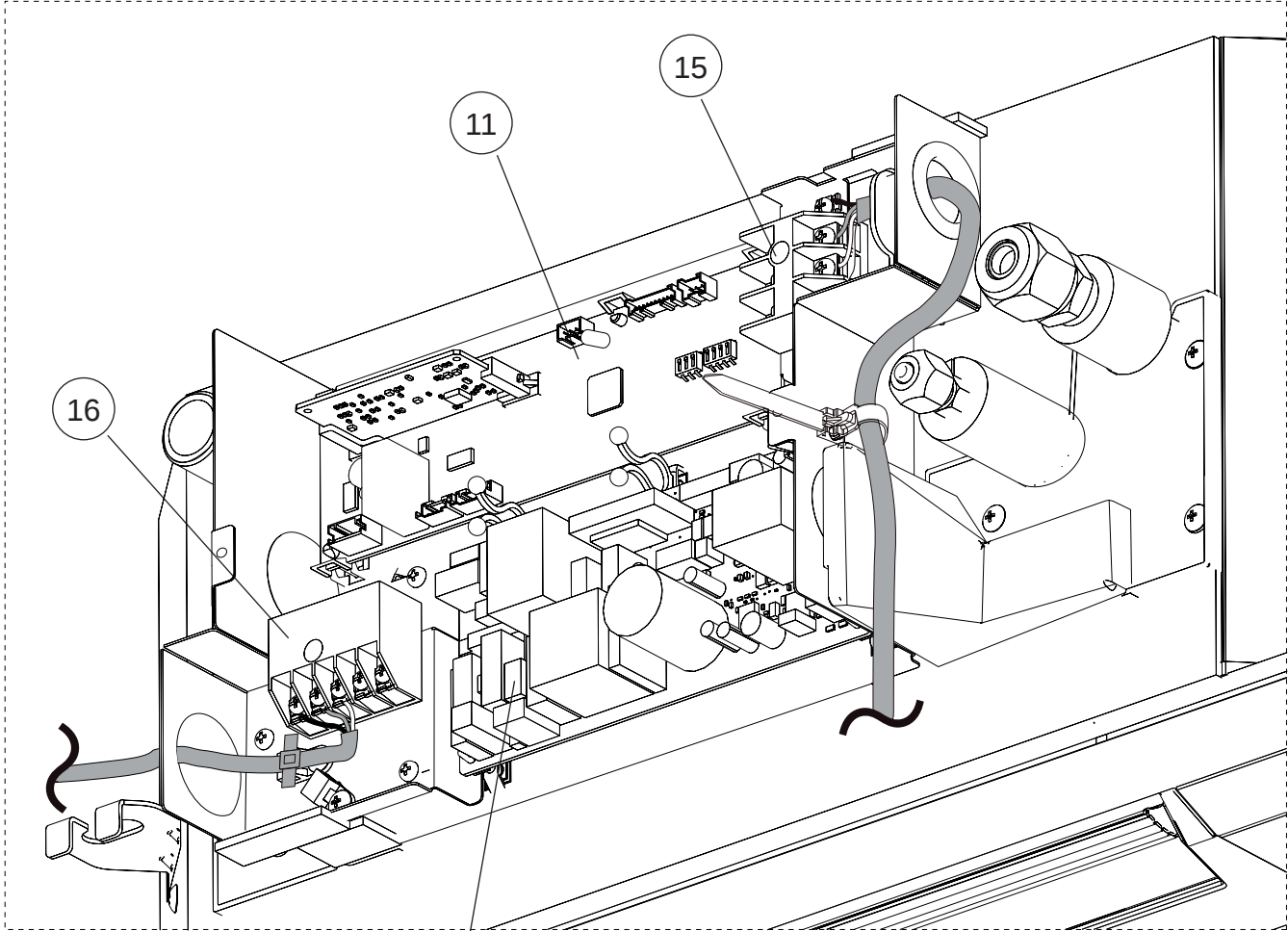
Ref	Description	Parts No.
21	Step Motor (White connector)	9900139070
22	Step Motor (Red connector)	9900139087
23	Flap assy A	9375727048
24	Flap assy B	9377759047

INDOOR UNIT
AU G09 VLA
AU G12 VLA
AU G14 VLA
AU G18 VLA
AU G22 VLA



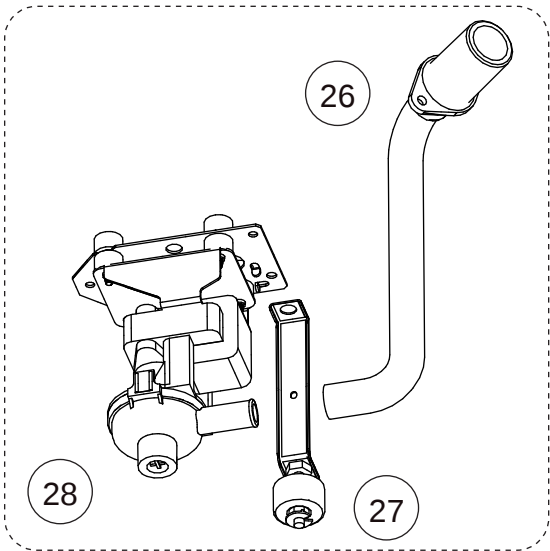
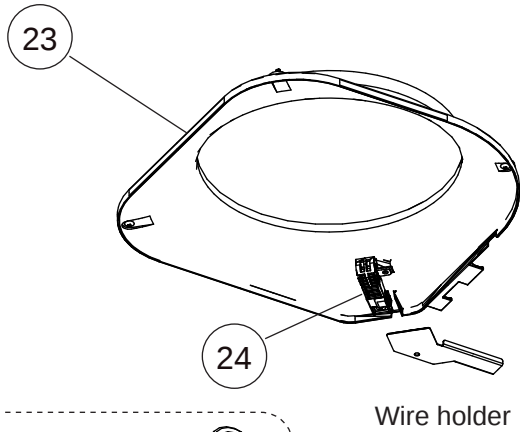
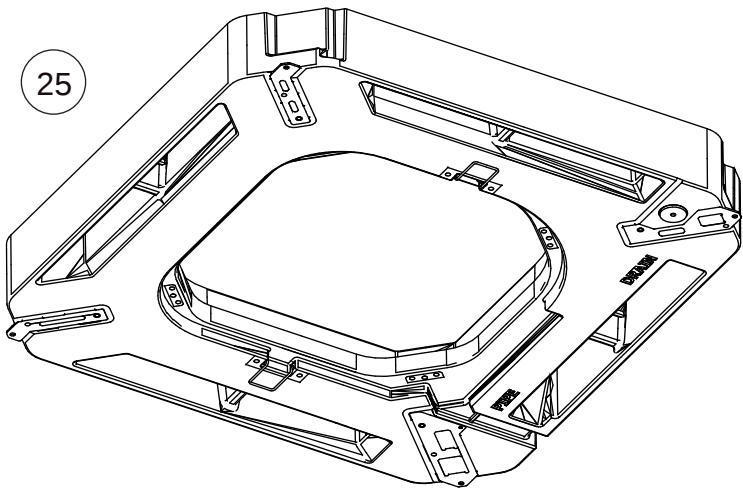
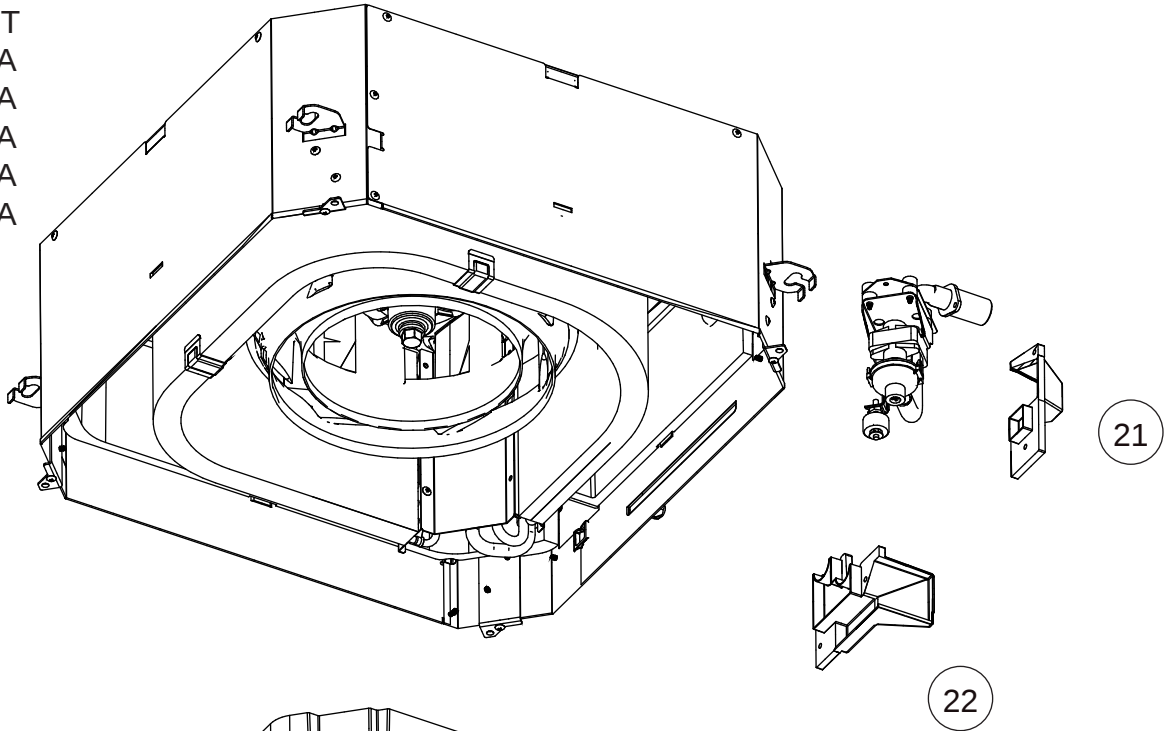
Ref.	Description	Part number
1	Drain hose	9379665001
2	Hose band	9379757010
3	Pipe Thermistor	9900942038
4	Room Thermistor	9900826000

INDOOR UNIT
AU G09 VLA
AU G12 VLA
AU G14 VLA
AU G18 VLA
AU G22 VLA



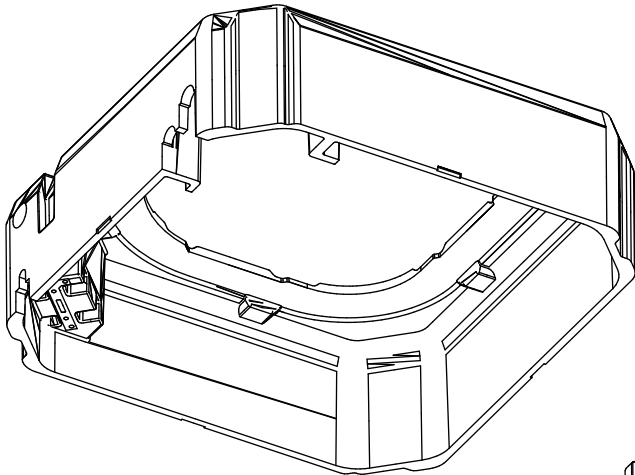
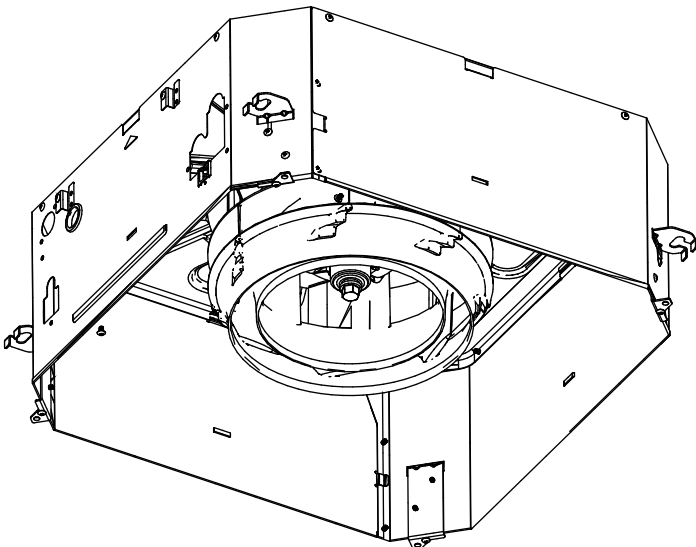
Ref.	Description	Part number
11	Main PCB (AU G09 VLA)	9710995743
11	Main PCB (AU G12 VLA)	9710995750
11	Main PCB (AU G14 VLA)	9710995705
11	Main PCB (AU G18 VLA)	9710995767
11	Main PCB (AU G22 VLA)	9710995613
12	Holder	0600063023
13	Communication PCB	9710019005
14	Power supply PCB	9710661006
15	Terminal	9900568009
16	Terminal	9900896003

INDOOR UNIT
AU G09 VLA
AU G12 VLA
AU G14 VLA
AU G18 VLA
AU G22 VLA

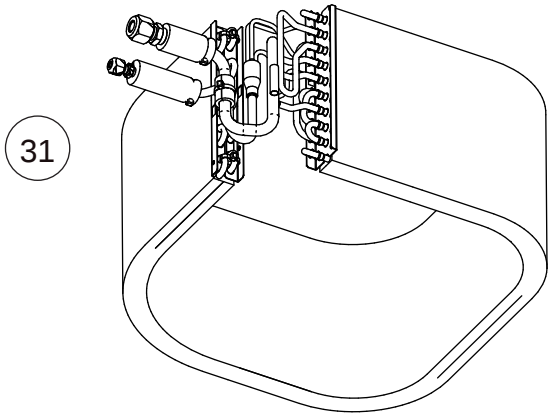


Ref.	Description	Part number
21	Wire cover	9375516017
22	Pipe cover	9375515010
23	Bellmouth	9375503017
24	Thermistor holder	9375477011
25	Drain pan sub assy (09,12,14,18)	9377765024
25	Drain pan sub assy (22)	9377765017
26	Drain port sub assy	9375718015
27	Float switch sub assy	9375721046
28	Drain pump sub assy	9375717025

INDOOR UNIT
AU G09 VLA
AU G12 VLA
AU G14 VLA
AU G18 VLA
AU G22 VLA



32



31



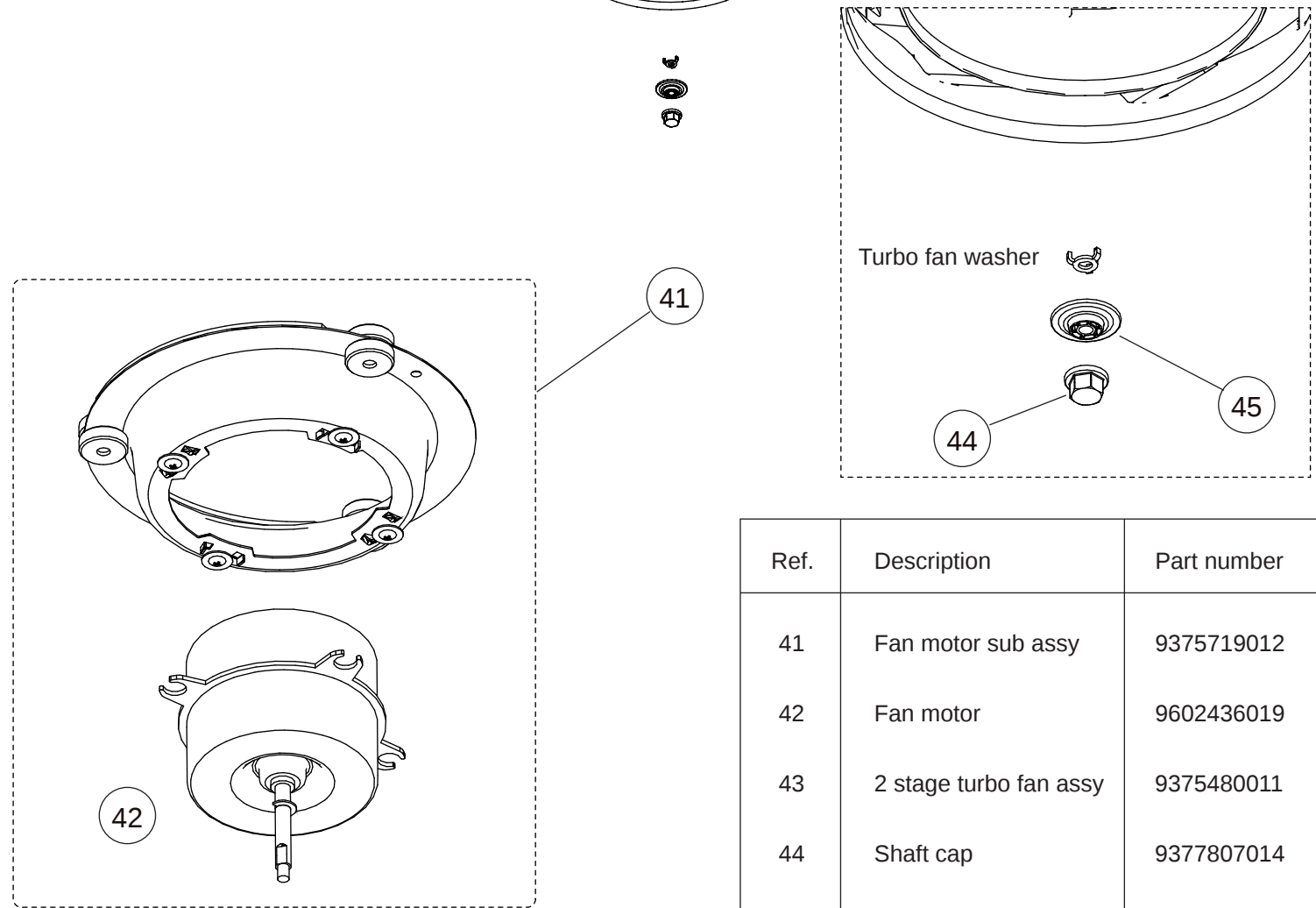
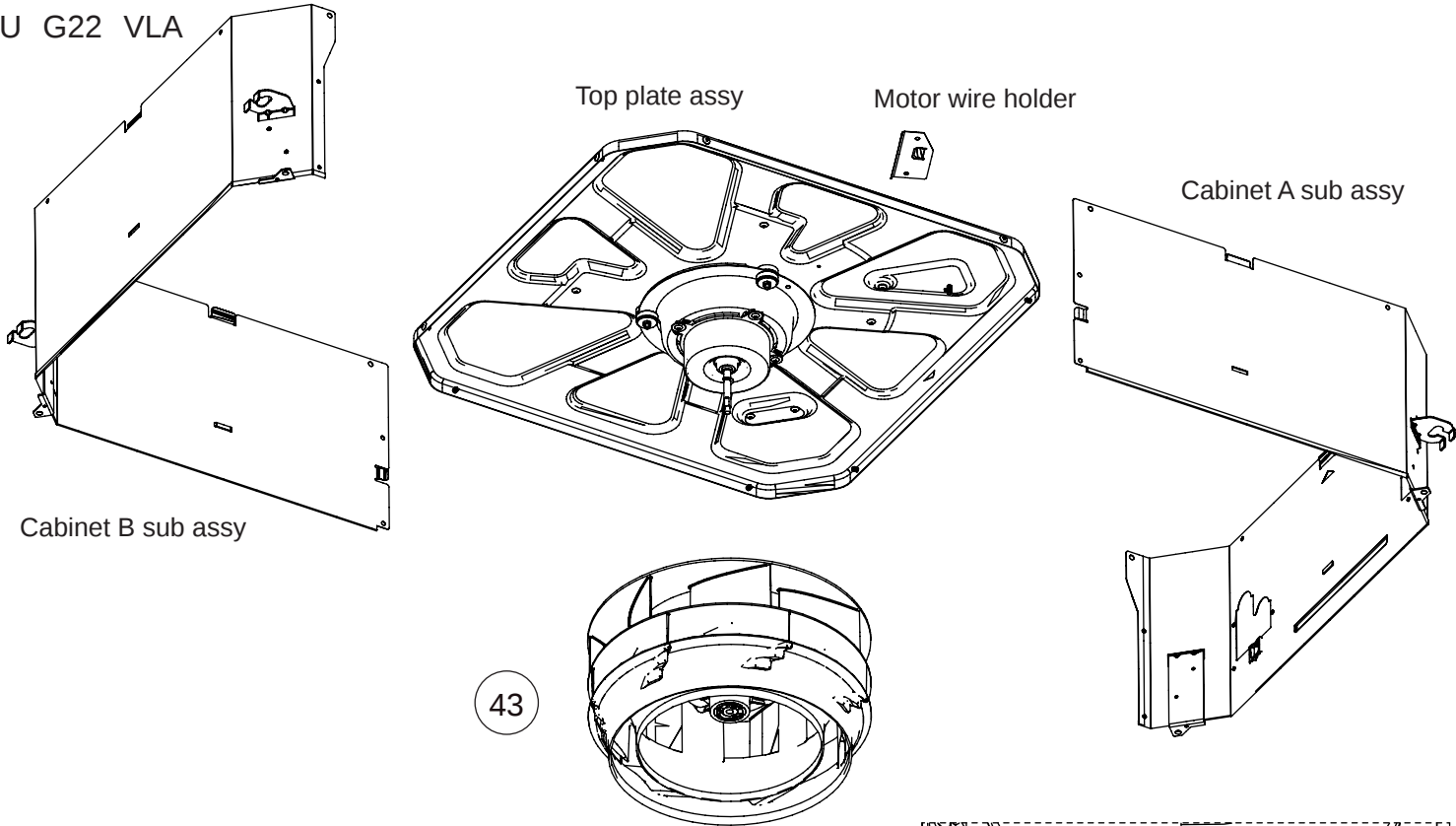
Separate wall



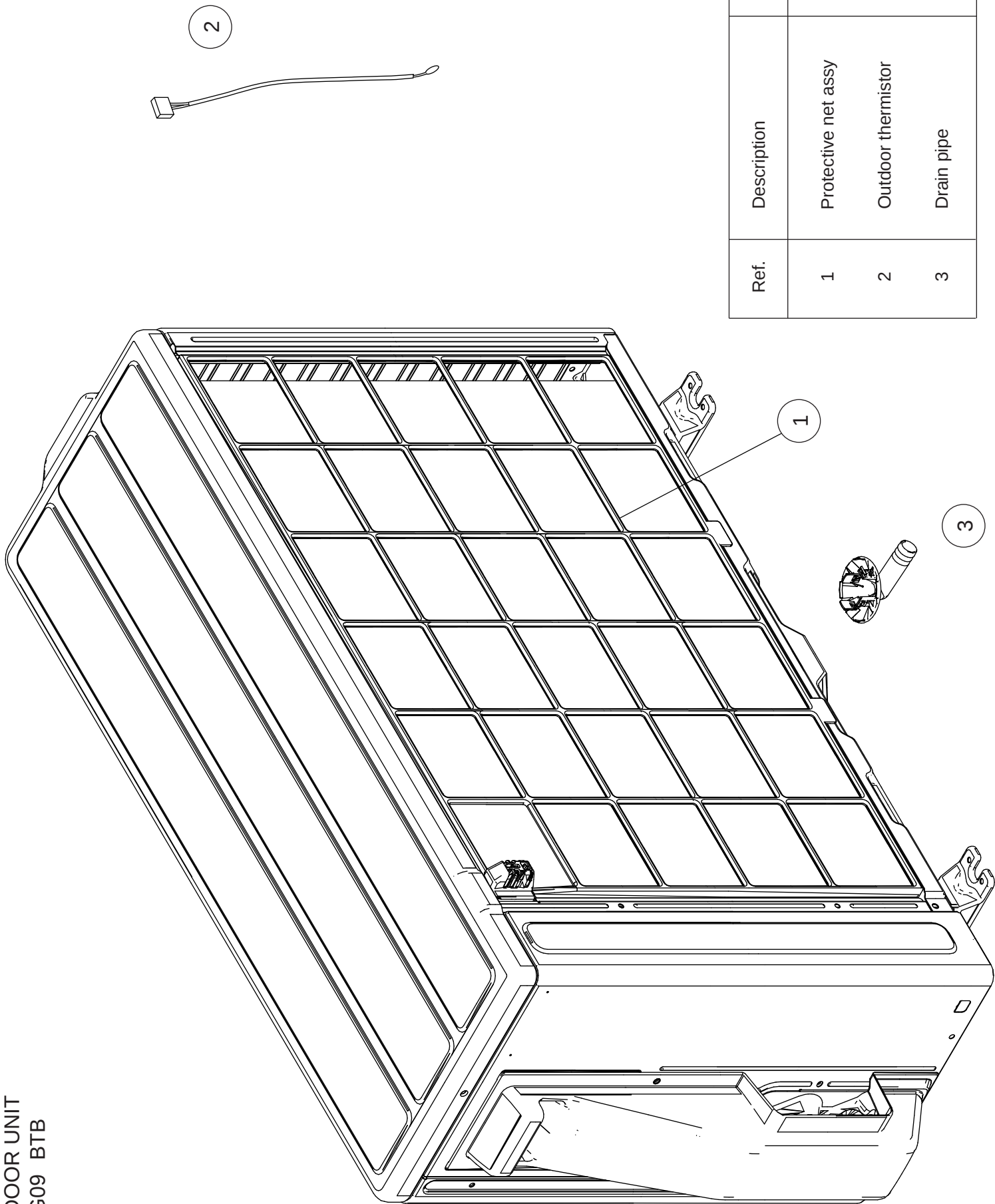
Evaporator holder 2 row

Ref.	Description	Part number
31	Evaporator total assy (AU G09, 12 VLA)	9377914101
31	Evaporator total assy (AU G14 VLA)	9377914118
31	Evaporator total assy (AU G18 VLA)	9377914125
31	Evaporator total assy (AU G22 VLA)	9377914149
32	Insulation box sub assy (09,12,14,18)	9377764065
32	Insulation box sub assy (22)	9377764058

INDOOR UNIT
AU G09 VLA
AU G12 VLA
AU G14 VLA
AU G18 VLA
AU G22 VLA

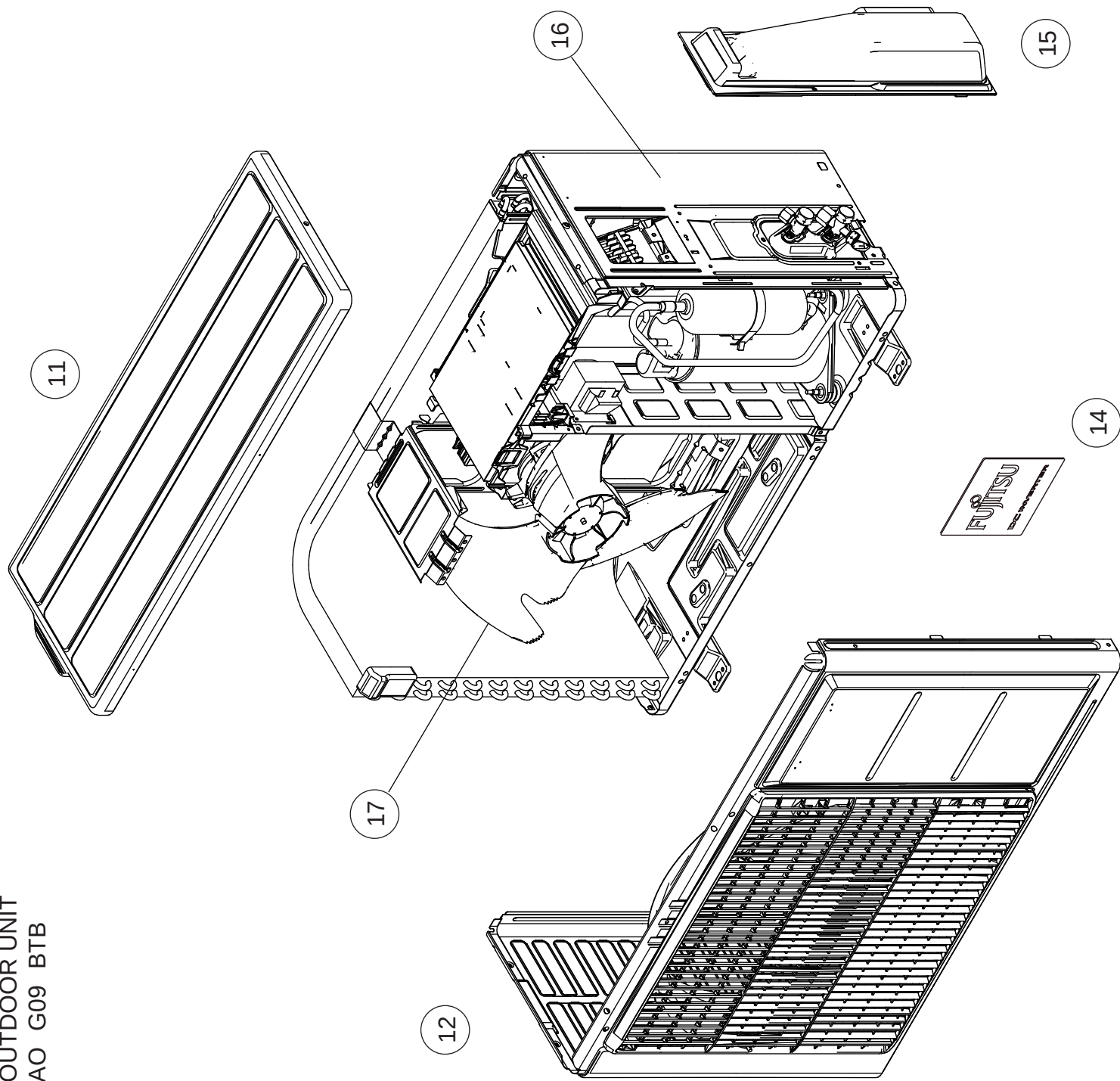


Ref.	Description	Part number
41	Fan motor sub assy	9375719012
42	Fan motor	9602436019
43	2 stage turbo fan assy	9375480011
44	Shaft cap	9377807014
45	Washer cover	9377811011

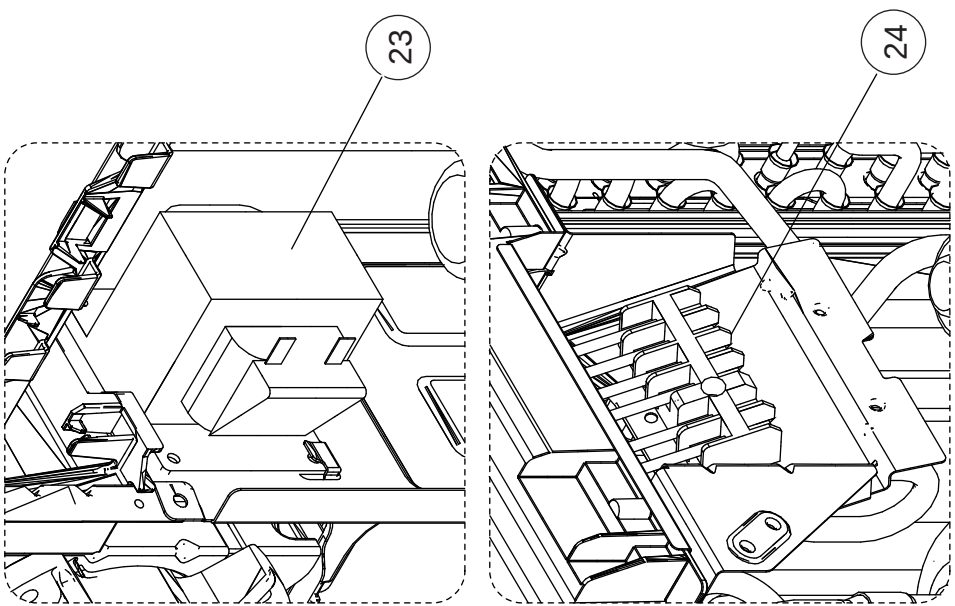


Ref.	Description	Part number
1	Protective net assy	9322811011
2	Outdoor thermistor	9900565060
3	Drain pipe	9322144003

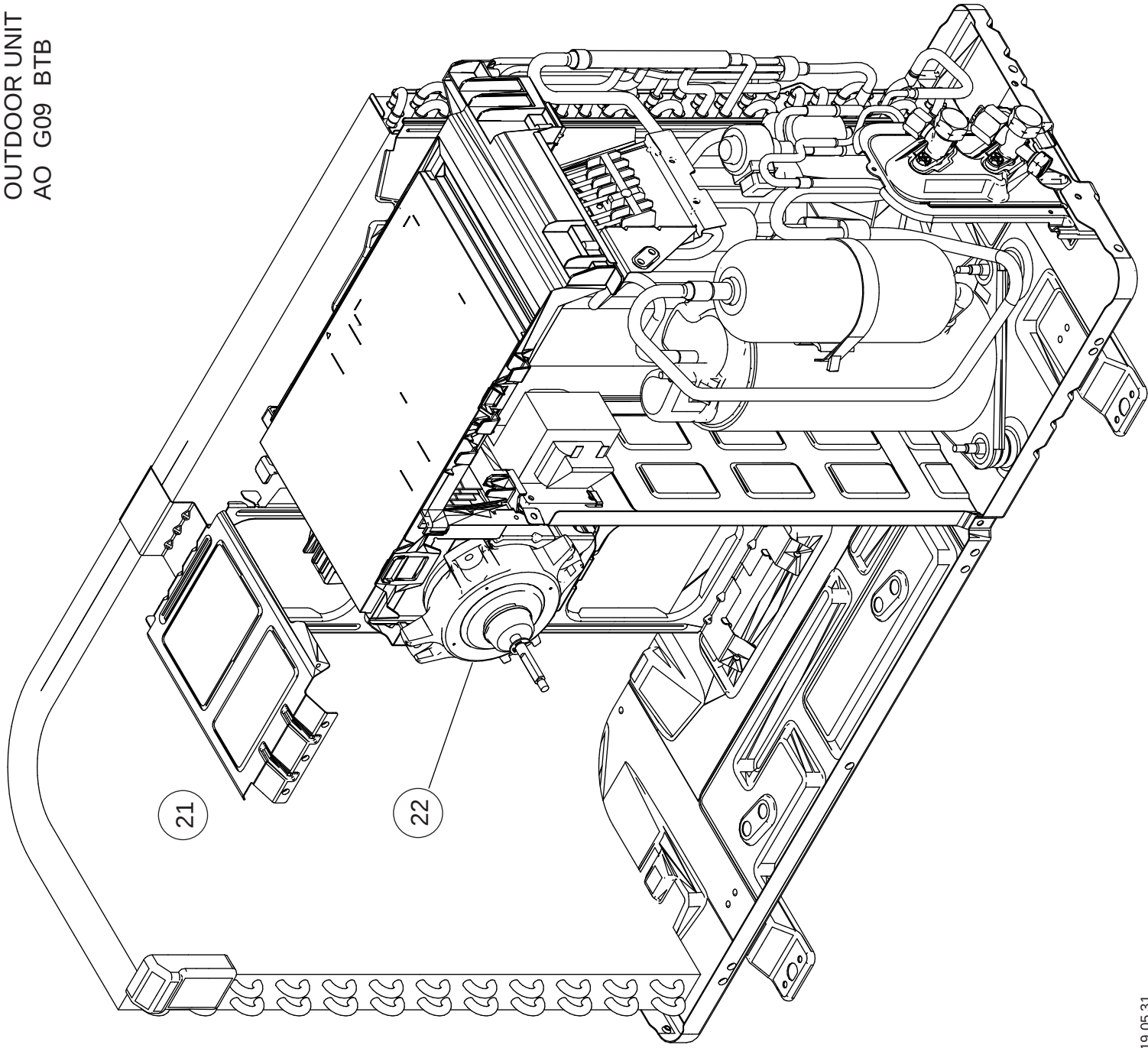
Ref.	Description	Part number
11	Top panel assy	9322556028
12	Front panel assy	9322555014
13	Blow grille	9322135001
14	Emblem	9319151007
15	Switch cover assy	9322570000
16	Cabinet right assy	9322552020
17	Propeller fan	9322136008

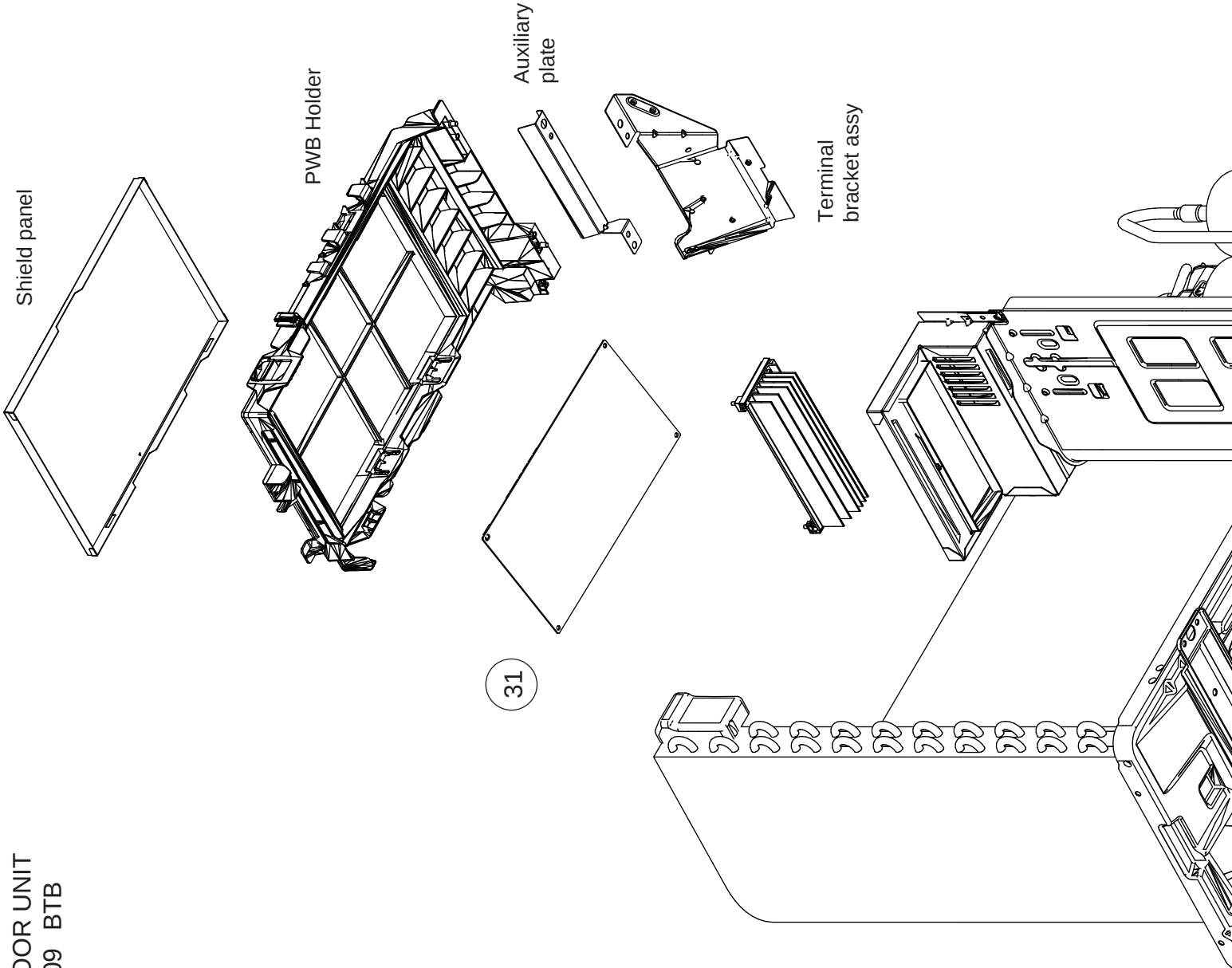


OUTDOOR UNIT
AO G09 BTB



Ref.	Description	Part number
21	Motor bracket assy	9322553010
22	Brushless motor	9603657017
23	Reactor assy	9900583019
24	Terminal	9900435028





Shield panel

PWB Holder

Auxiliary plate

Terminal bracket assy

IPM spacer L

IPM spacer R

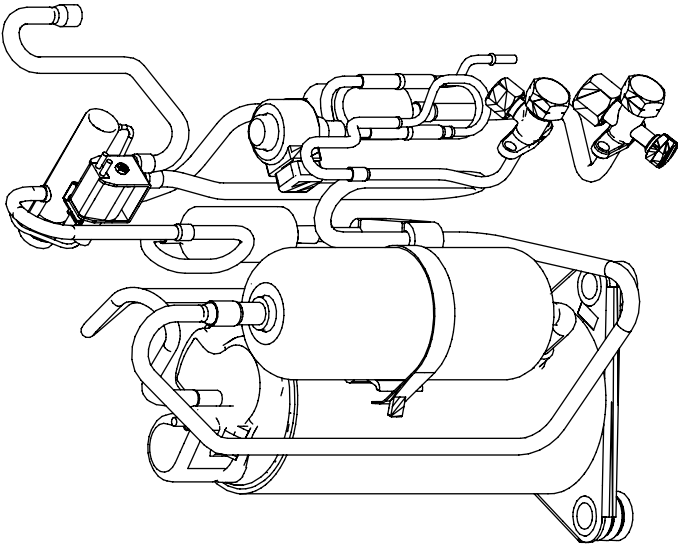
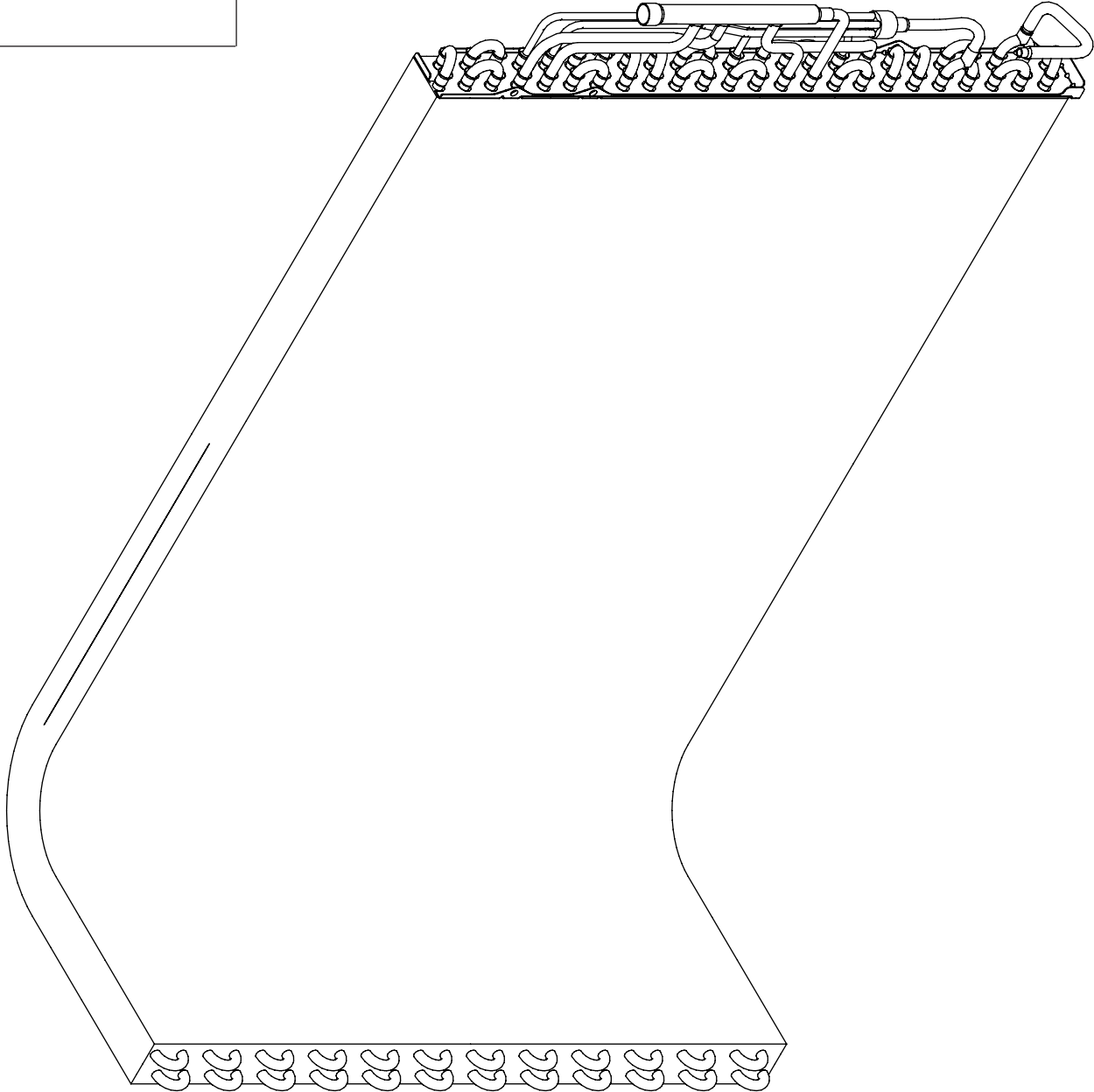
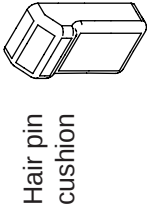
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32

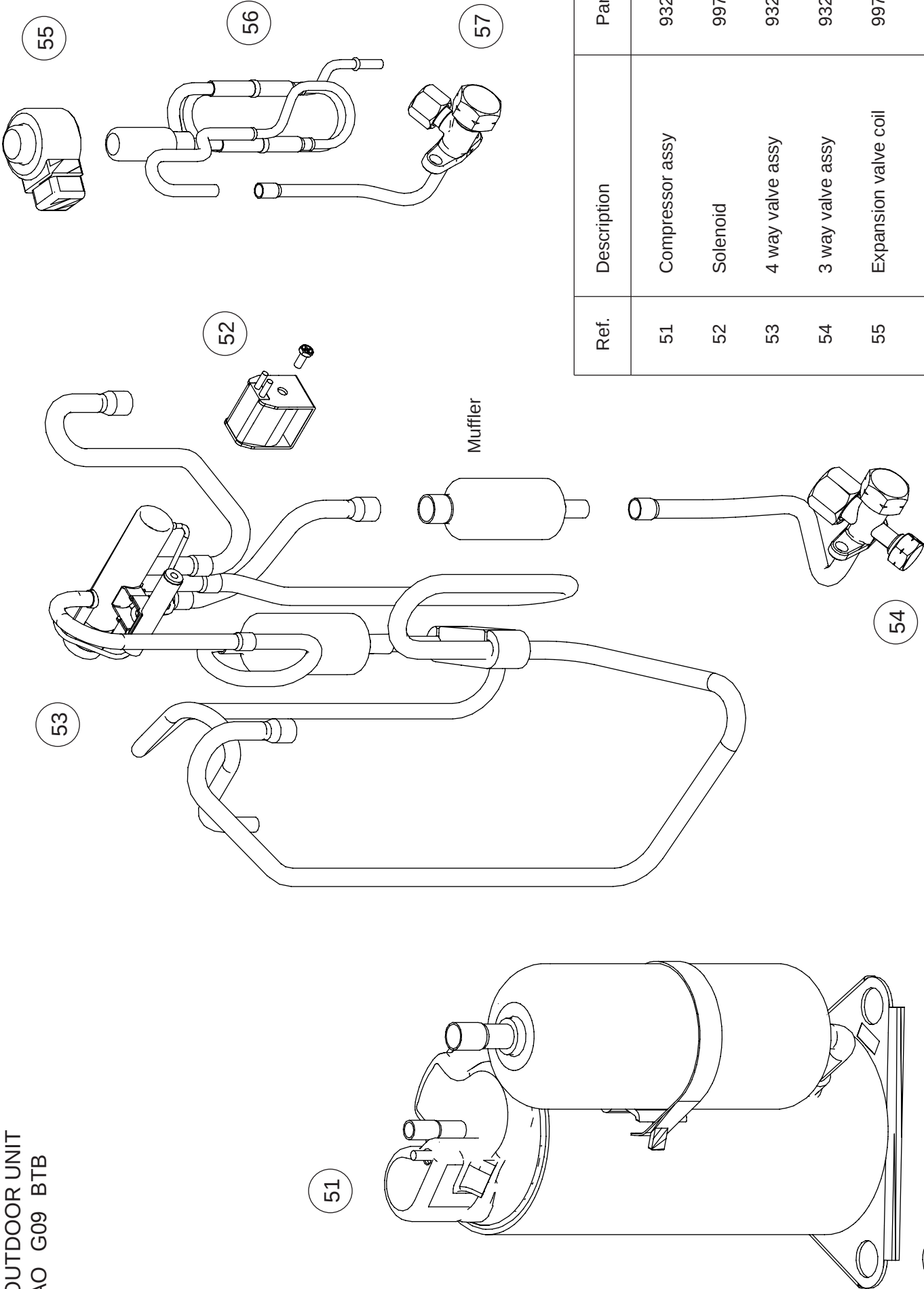
31

Ref.	Description	Part number
31	Main PCB	9710924194
32	Heatsink	9322418005
33	Thermistor assy	9900727062
	Heat exchanger thermistor	9900984014

41

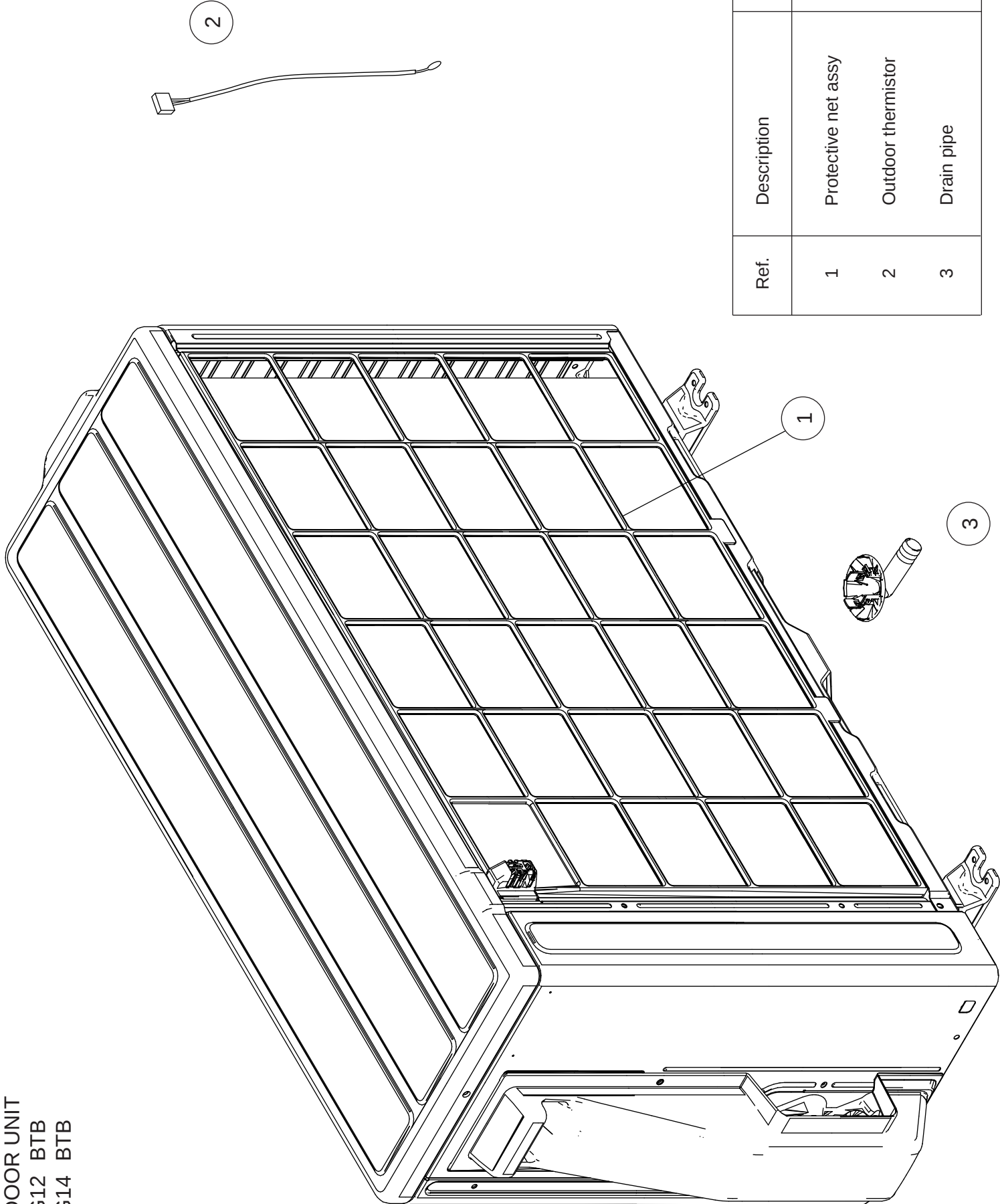


Ref.	Description	Part number
41	Condenser total assy	9322275004
	S insulator B	9322535009
	S insulator F	9322536006
	S insulator H	9322537003
	S insulator V	9323045002

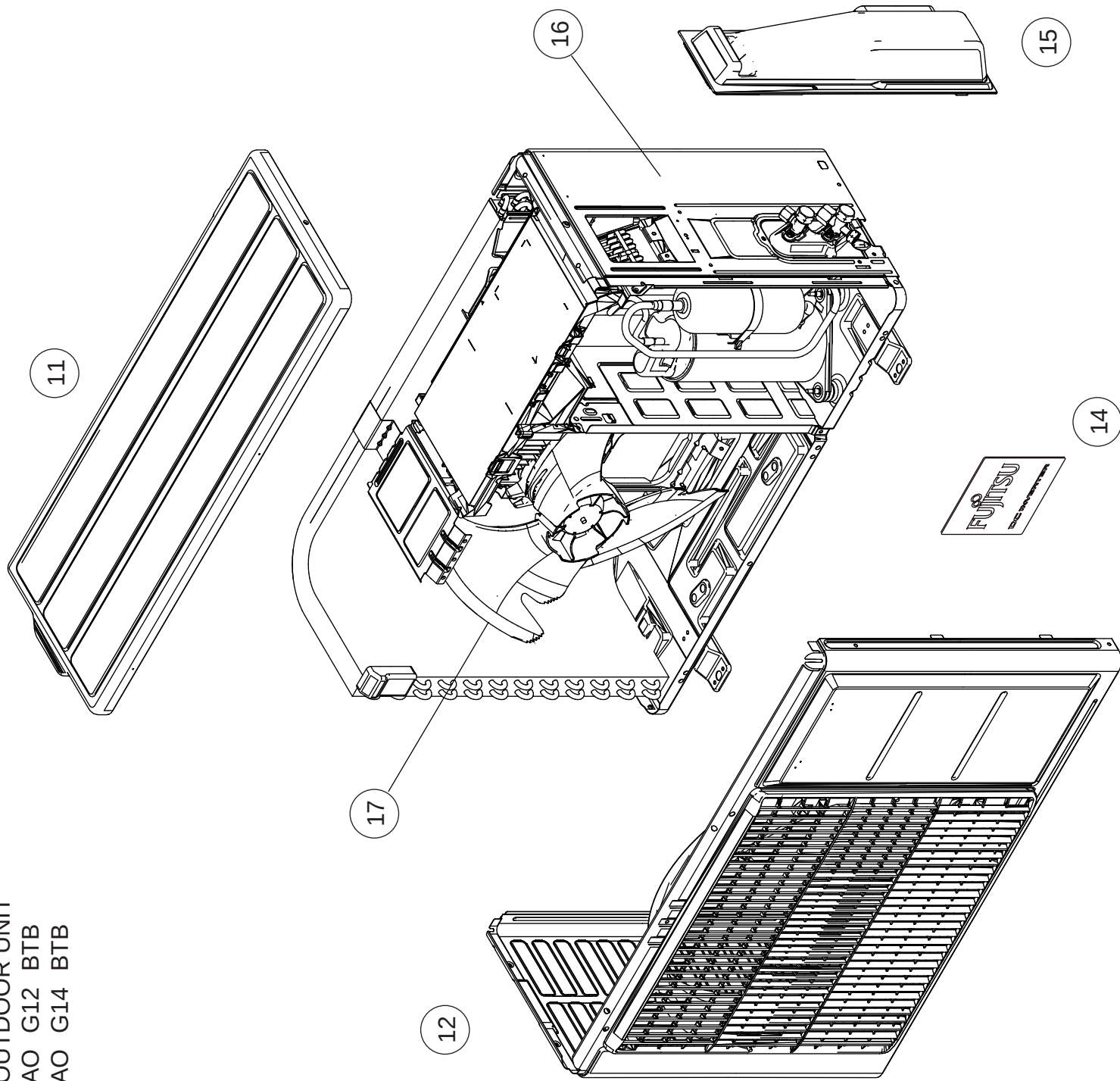


Ref.	Description	Part number
51	Compressor assy	9322427007
52	Solenoid	9970195006
53	4 way valve assy	9322444004
54	3 way valve assy	9322475008
55	Expansion valve coil	9970173028
56	Pulse motor valve assy	9322463029
57	2 way valve assy	9322474001

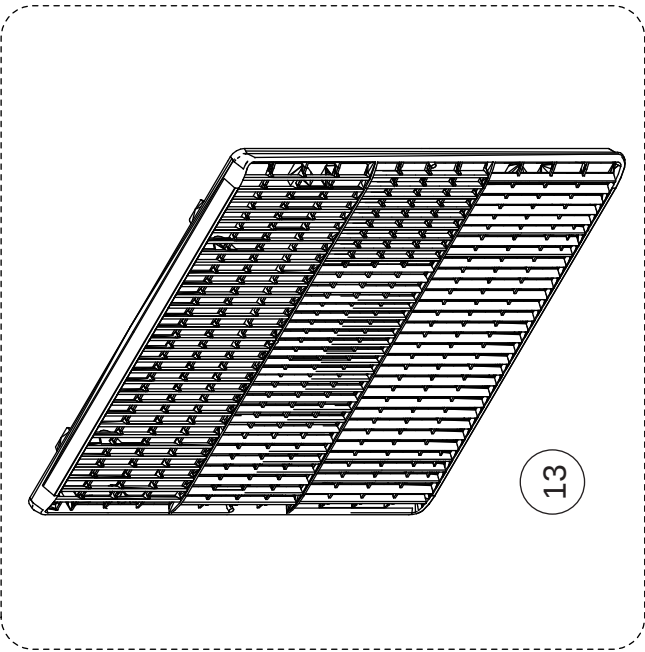
OUTDOOR UNIT
AO G12 BTB
AO G14 BTB



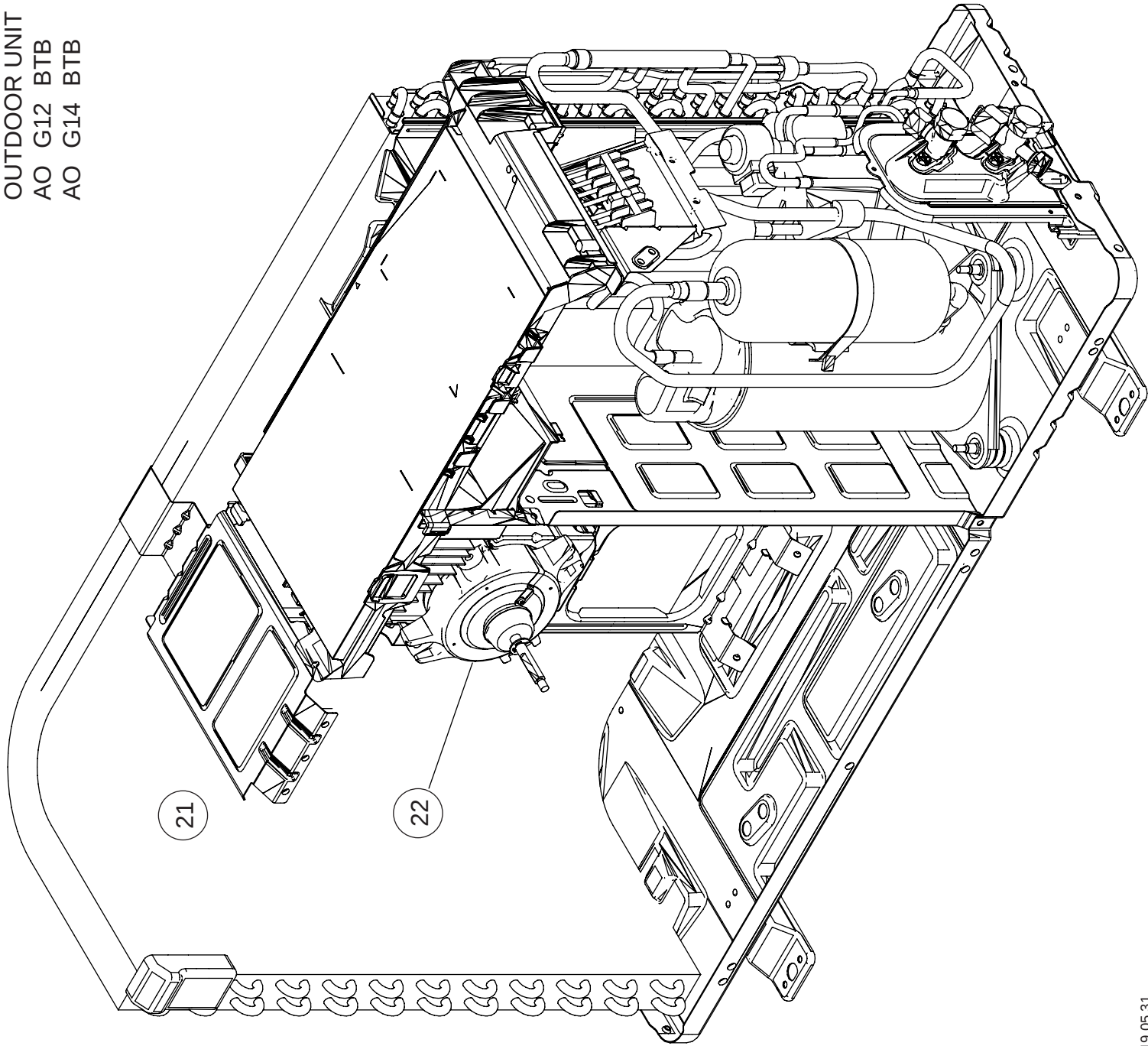
Ref.	Description	Part number
1	Protective net assy	9322811011
2	Outdoor thermistor	9900565060
3	Drain pipe	9322144003



Ref.	Description	Part number
11	Top panel assy	9322556028
12	Front panel assy	9322555014
13	Blow grille	9322135001
14	Emblem	9319151007
15	Switch cover assy	9322570000
16	Cabinet right assy	9322552020
17	Propeller fan	9322136008

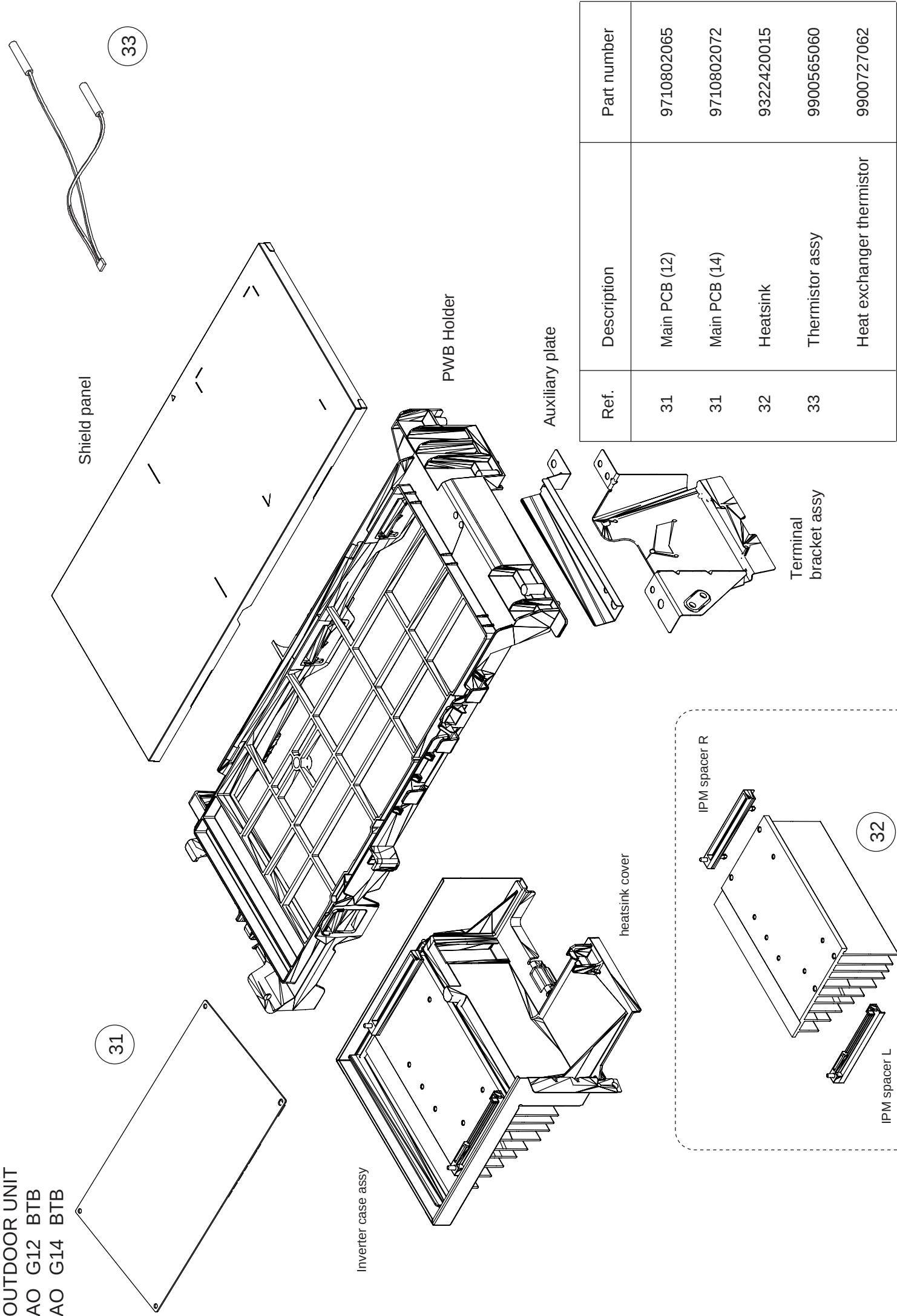


OUTDOOR UNIT
AO G12 BTB
AO G14 BTB



Ref.	Description	Part number
21	Motor bracket assy	9322553010
22	Brushless motor	9603657017
23	Terminal	9900435028

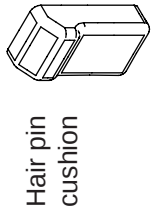
OUTDOOR UNIT
AO G12 BTB
AO G14 BTB



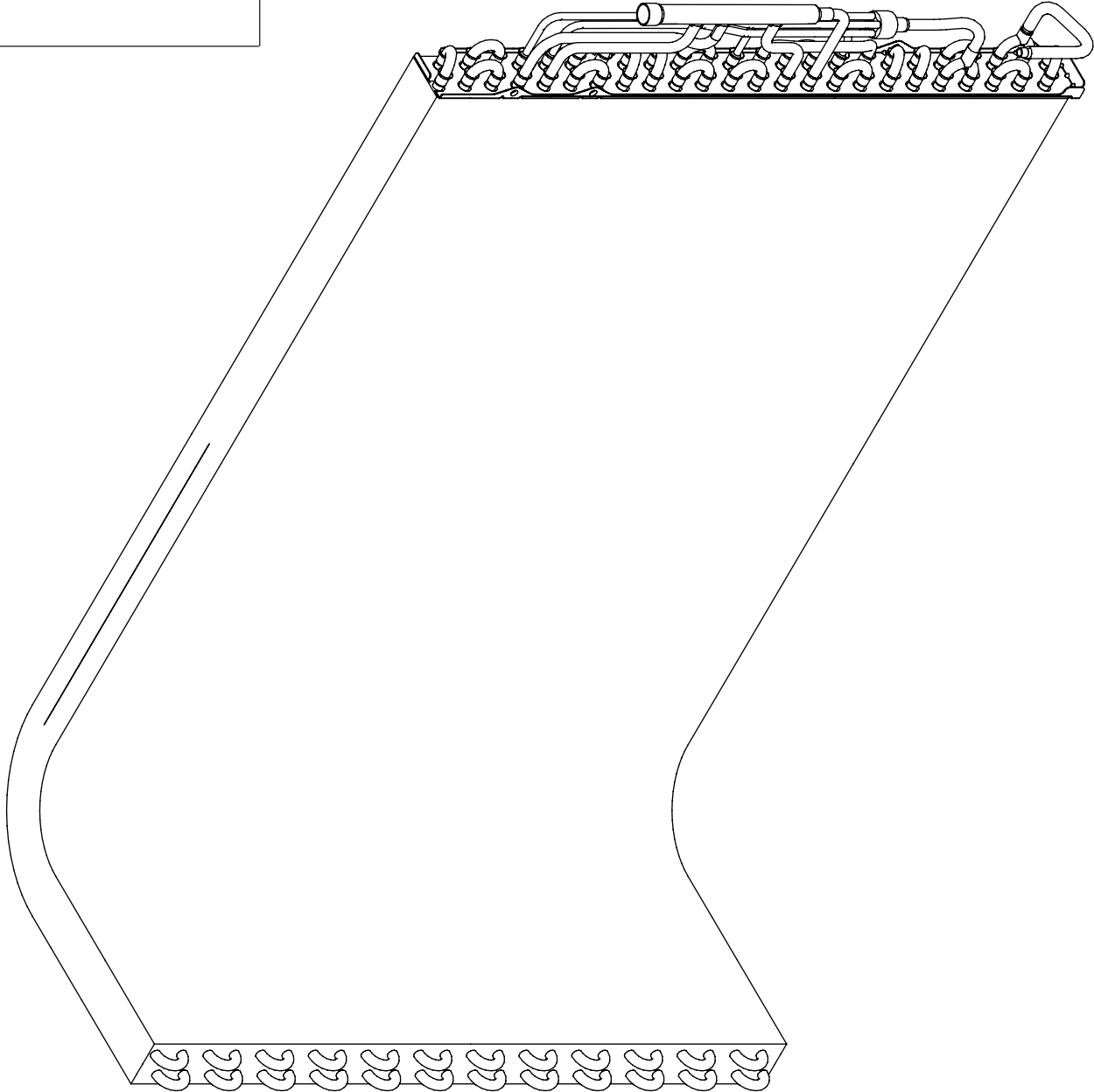
Ref.	Description	Part number
31	Main PCB (12)	9710802065
31	Main PCB (14)	9710802072
32	Heatsink	9322420015
33	Thermistor assy	9900565060
	Heat exchanger thermistor	9900727062

OUTDOOR UNIT
AO G12 BTB
AO G14 BTB

41

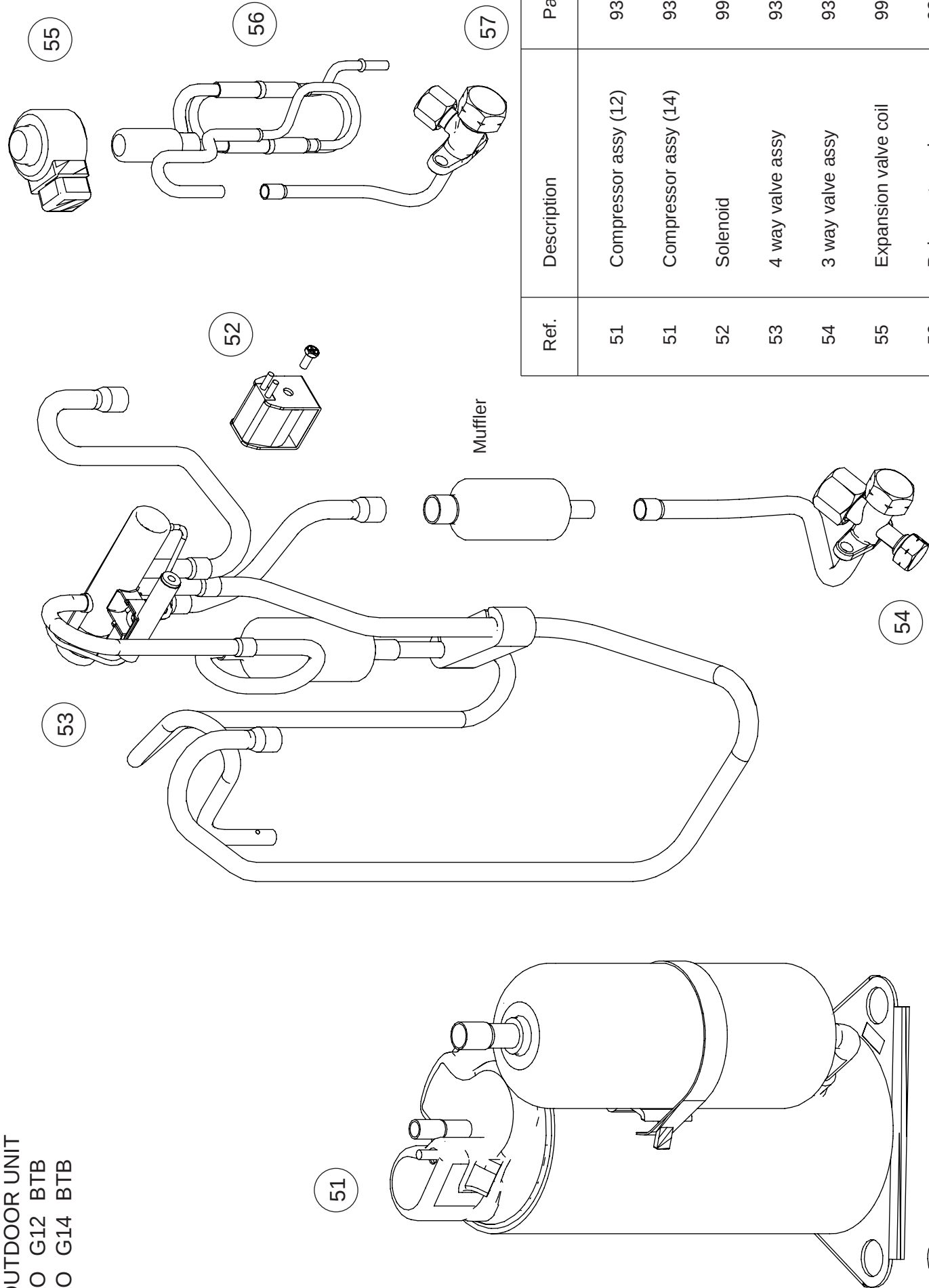


Hair pin
cushion



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

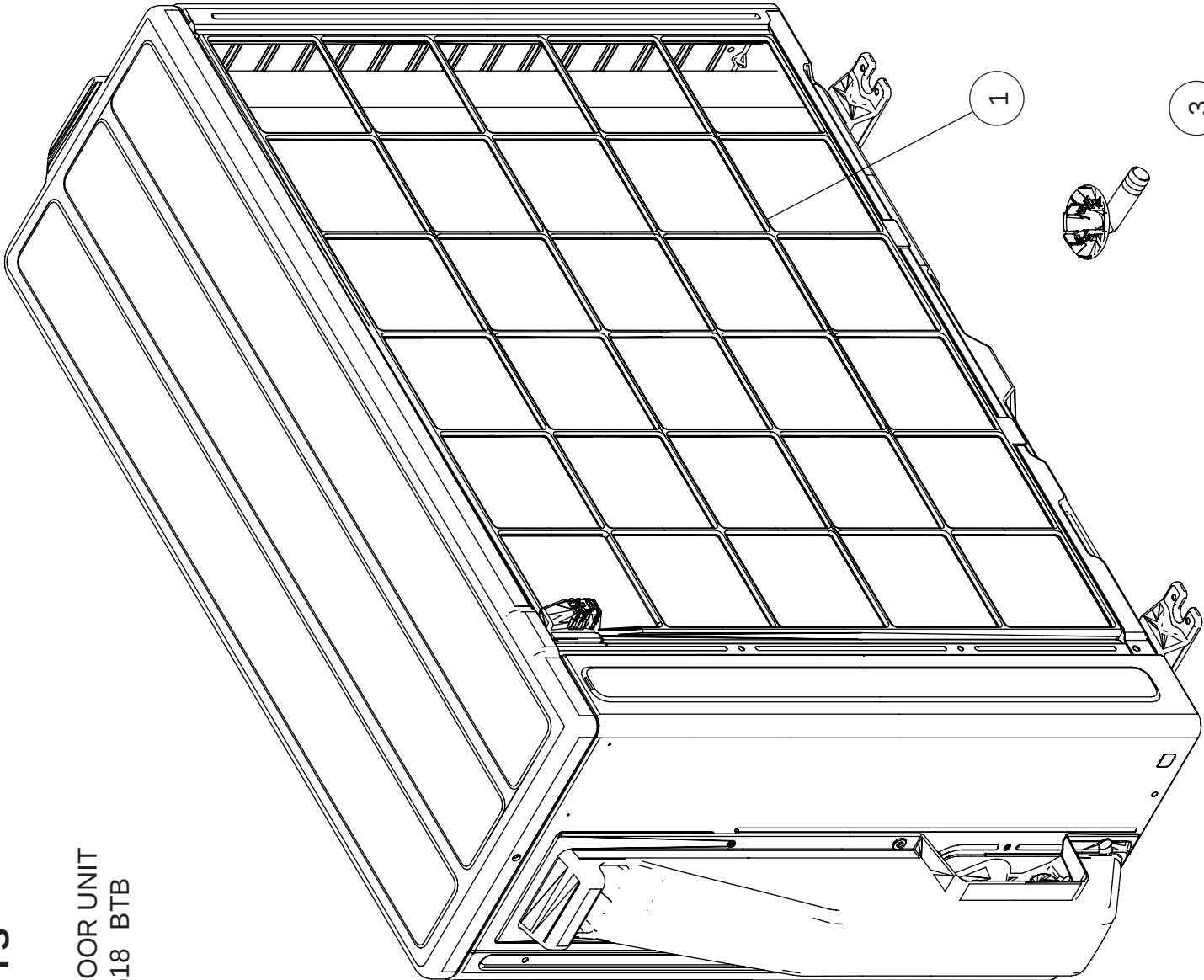
OUTDOOR UNIT
AO G12 BTB
AO G14 BTB



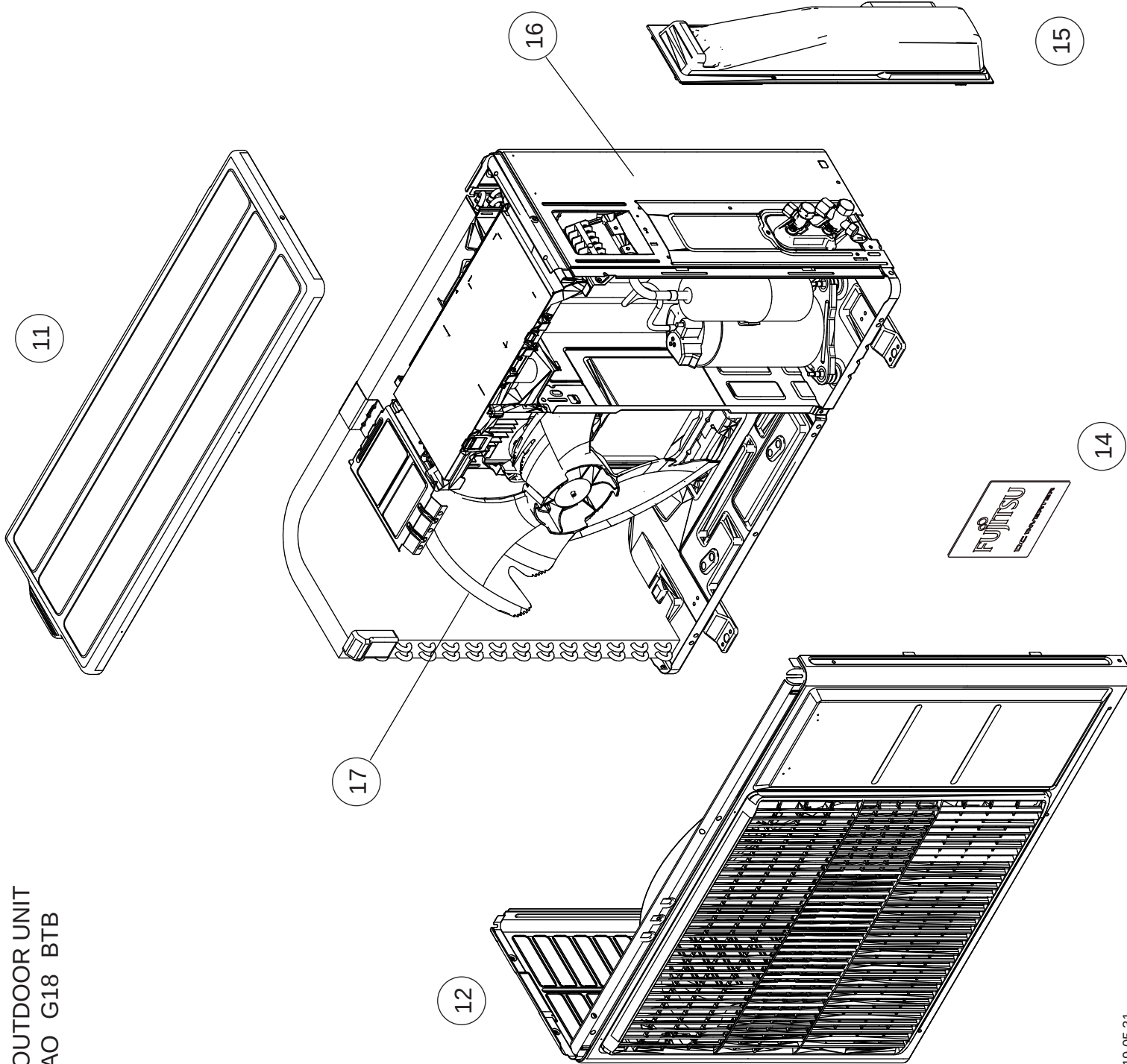
Ref.	Description	Part number
51	Compressor assy (12)	9322431004
51	Compressor assy (14)	9322433008
52	Solenoid	9970195006
53	4 way valve assy	9322445001
54	3 way valve assy	9322475008
55	Expansion valve coil	9970173028
56	Pulse motor valve assy	9322463029
57	2 way valve assy	9322474001

A TS

OUTDOOR UNIT
AO G18 BTB

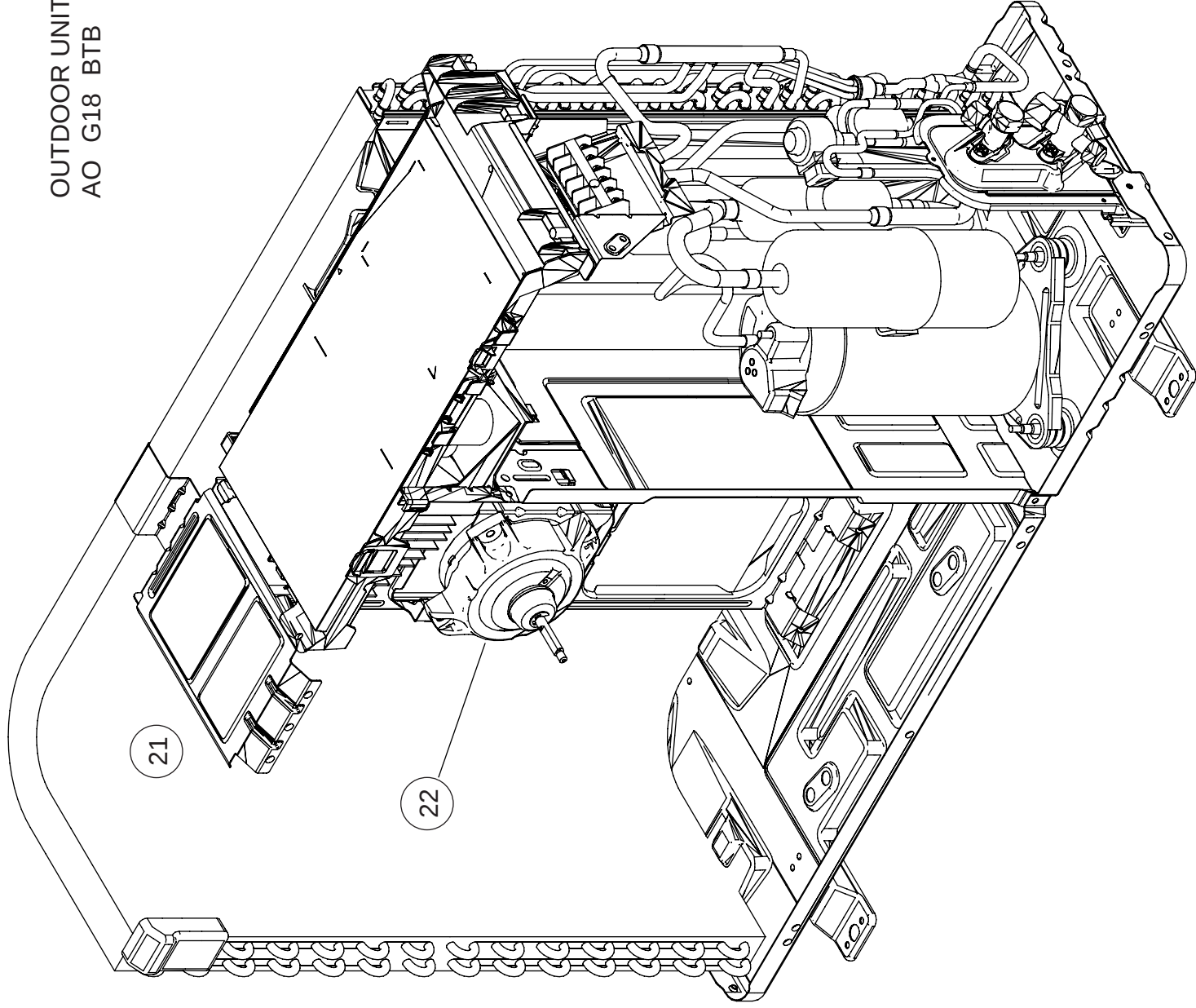
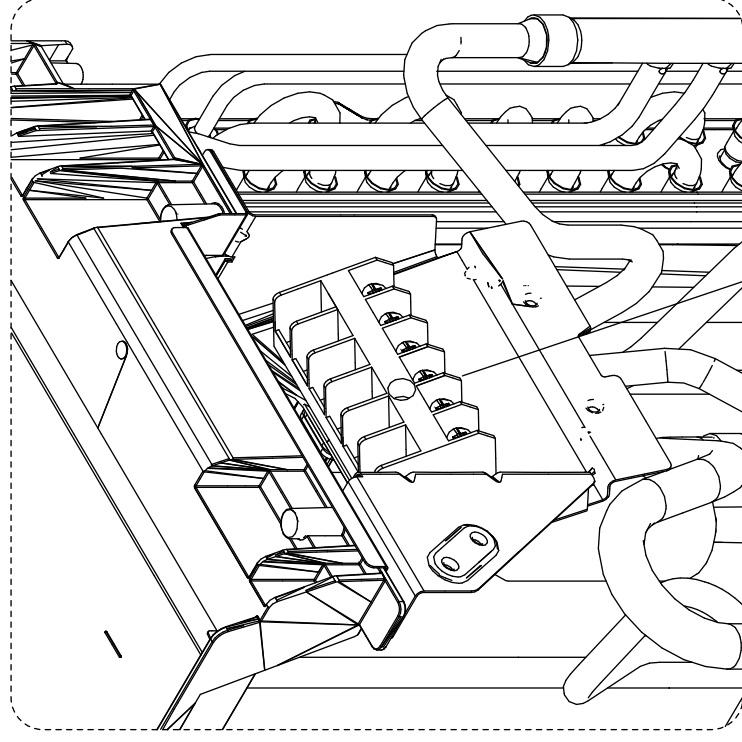


Ref.	Description	Part number
1	Protective net assy	9322811028
2	Outdoor thermistor	9900565060
3	Drain pipe	9322144003

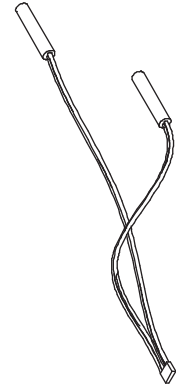
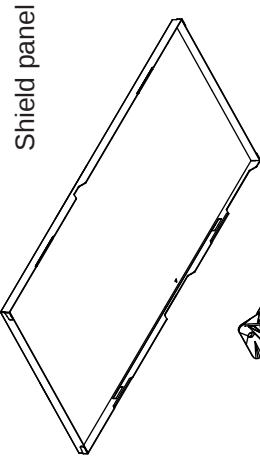


Ref.	Description	Part number
11	Top panel assy	9322556028
12	Front panel assy	9322555021
13	Blow grille	9322149008
14	Emblem	9319151007
15	Switch cover assy	9322570024
16	Cabinet right assy	9322552099
17	Propeller fan	9322150004

OUTDOOR UNIT
AO G18 BTB



Ref.	Description	Part number
21	Motor bracket assy	9322553027
22	Brushless motor	9603601003
23	Terminal	9900435028

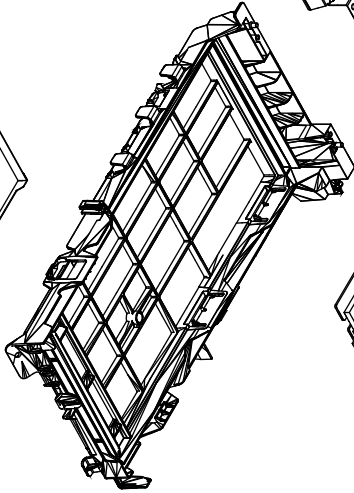


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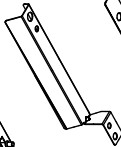


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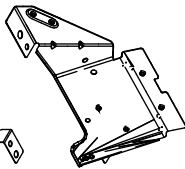
PWB Holder



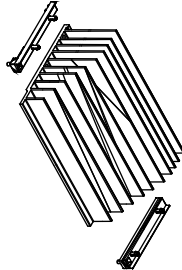
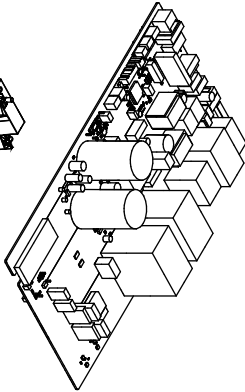
Auxiliary
plate



Terminal
bracket assy

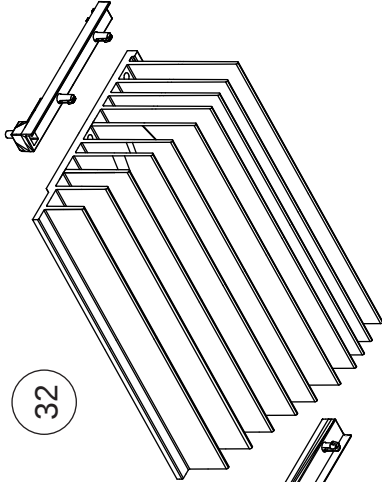


31

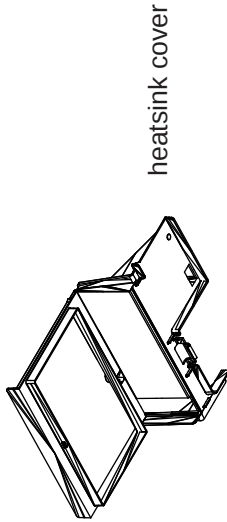
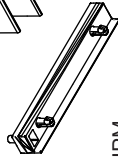


IPM spacer L

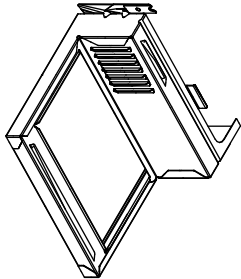
32



IPM
spacer R



heatsink cover

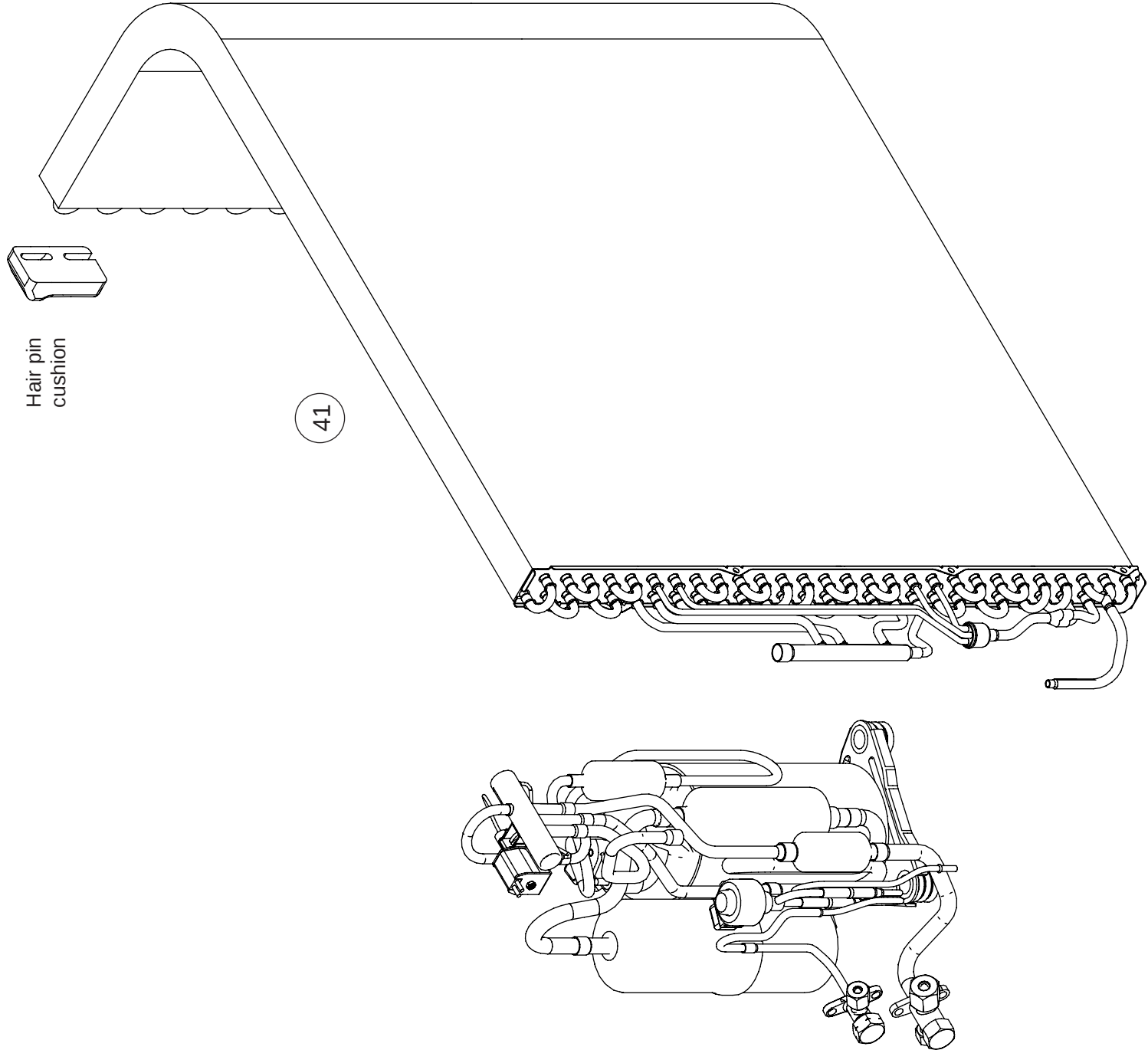


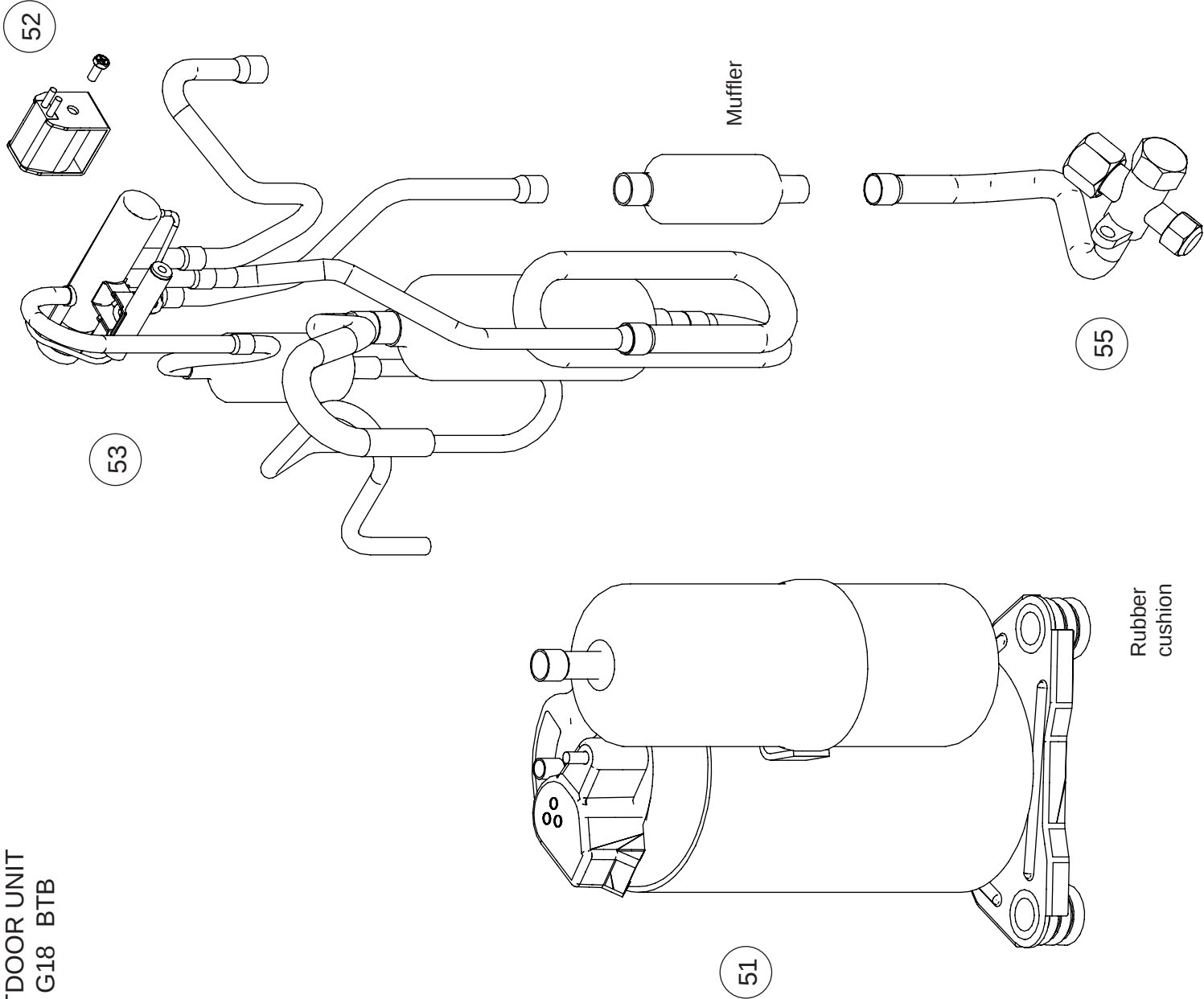
Inverter case assy

Ref.	Description	Part number
31	Main PCB	9710802089
32	Heatsink	9322420039
33	Thermistor assy	9900727079
34	Heat exchanger thermistor	9900984014

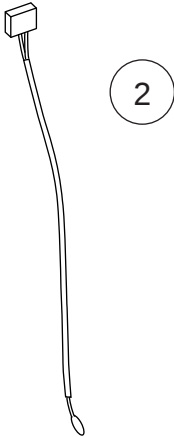
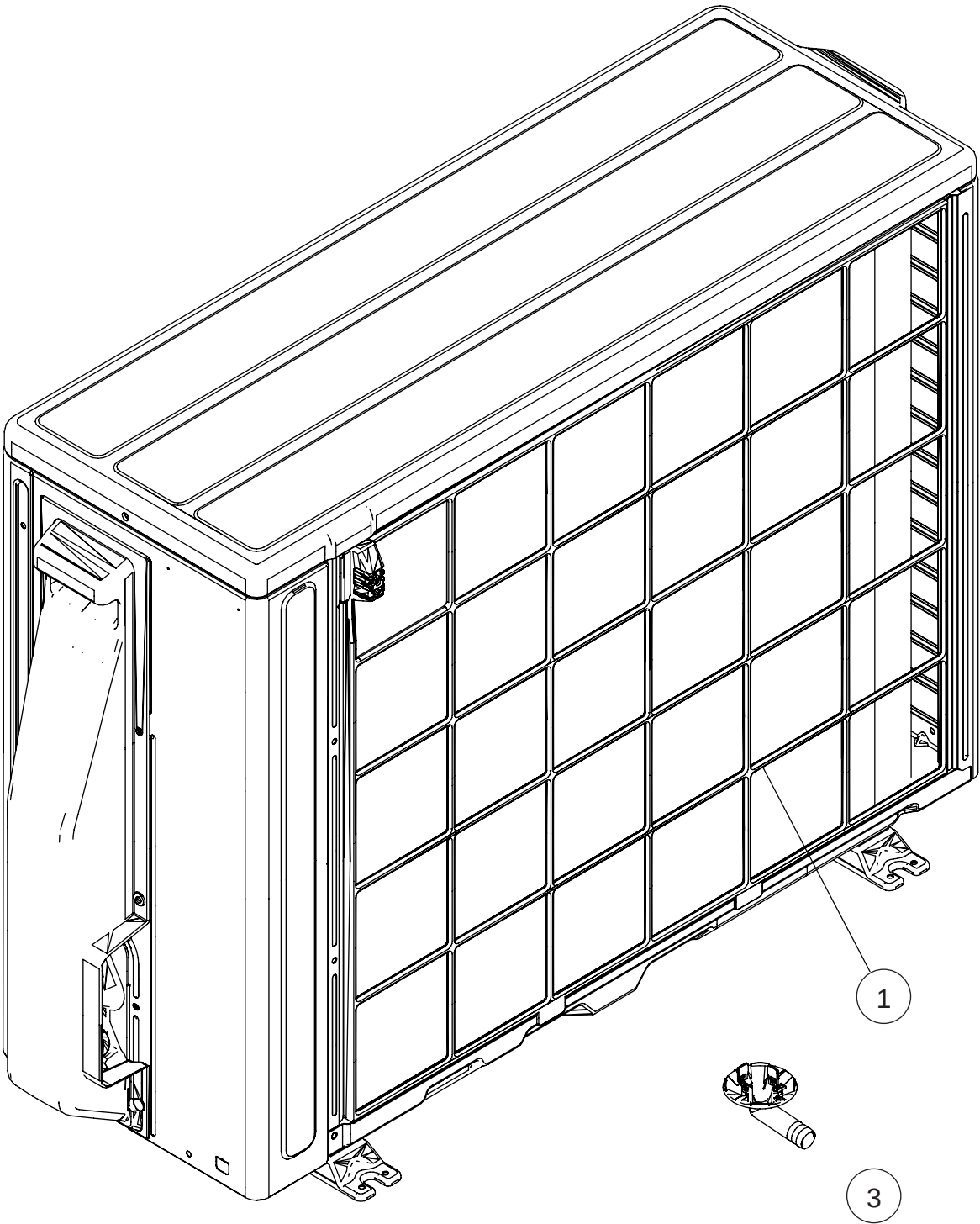
OUTDOOR UNIT
AO G18 BTB

Ref.	Description	Part number
41	Condenser total assy	9317089616
	S insulator B	9322500007
	S insulator F	9322847003
	S insulator H	9322501004
	S insulator V	9323045002

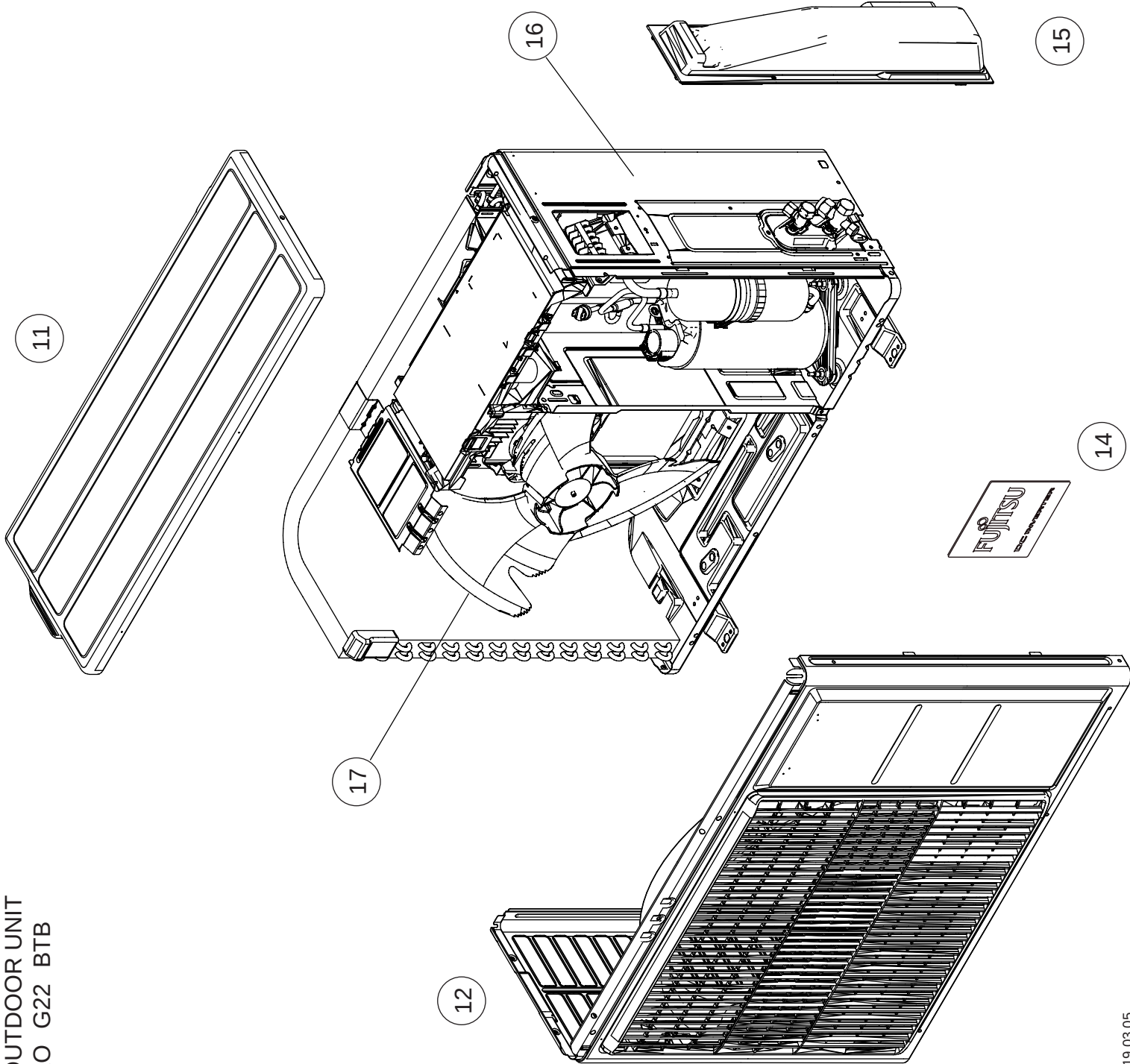




Ref.	Description	Part number
51	Compressor assy	9322433008
52	Solenoid	9970195006
53	4 way valve assy	9322783004
55	3 way valve assy	9387831016
56	Expansion valve coil	9970173028
57	Pulse motor valve assy	9322463029
58	2 way valve assy	9322474001

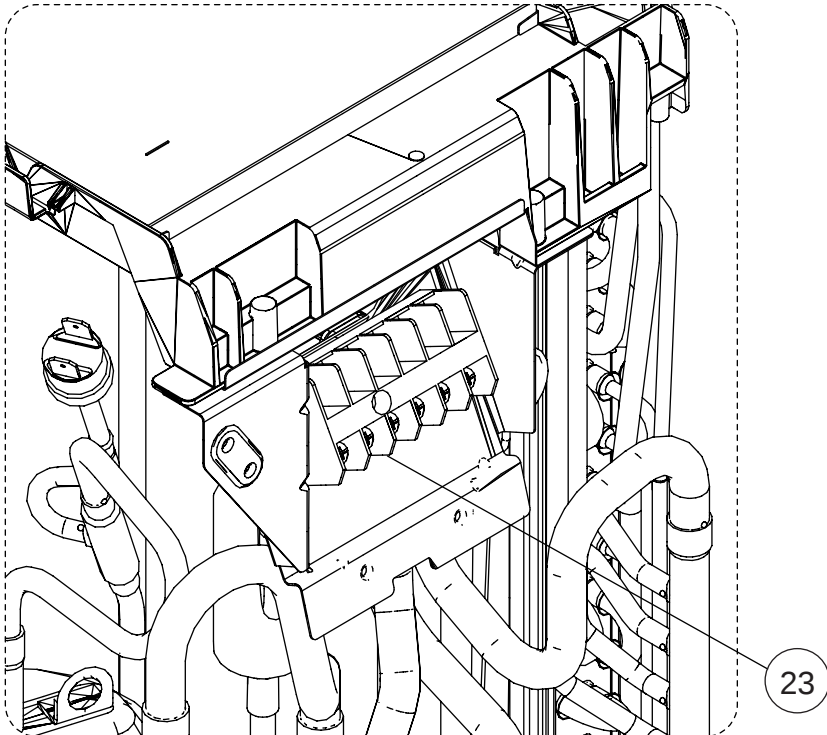
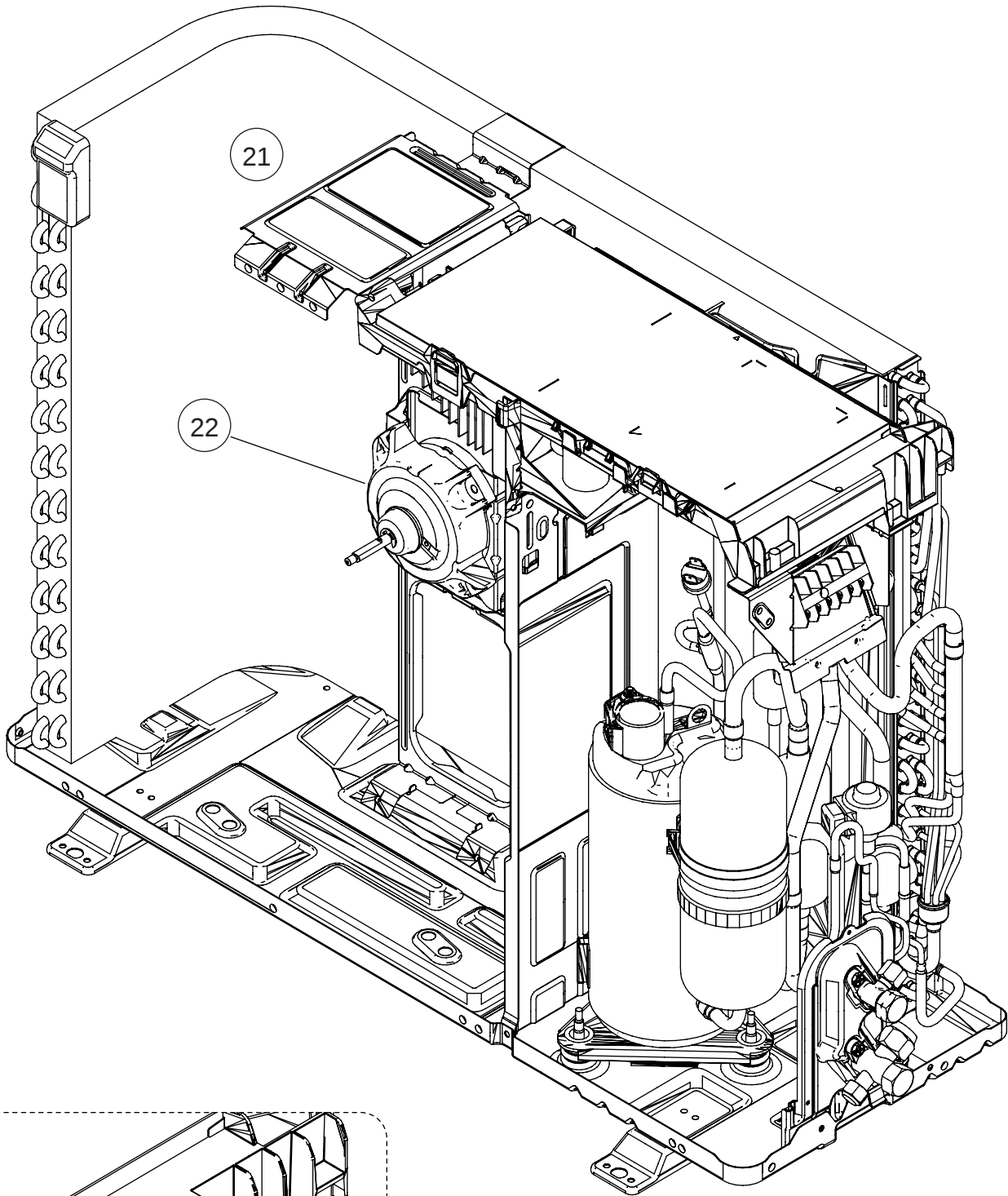


Ref.	Description	Part number
1	Protective net assy	9322811028
2	Outdoor thermistor	9900565060
3	Drain pipe	9322144003

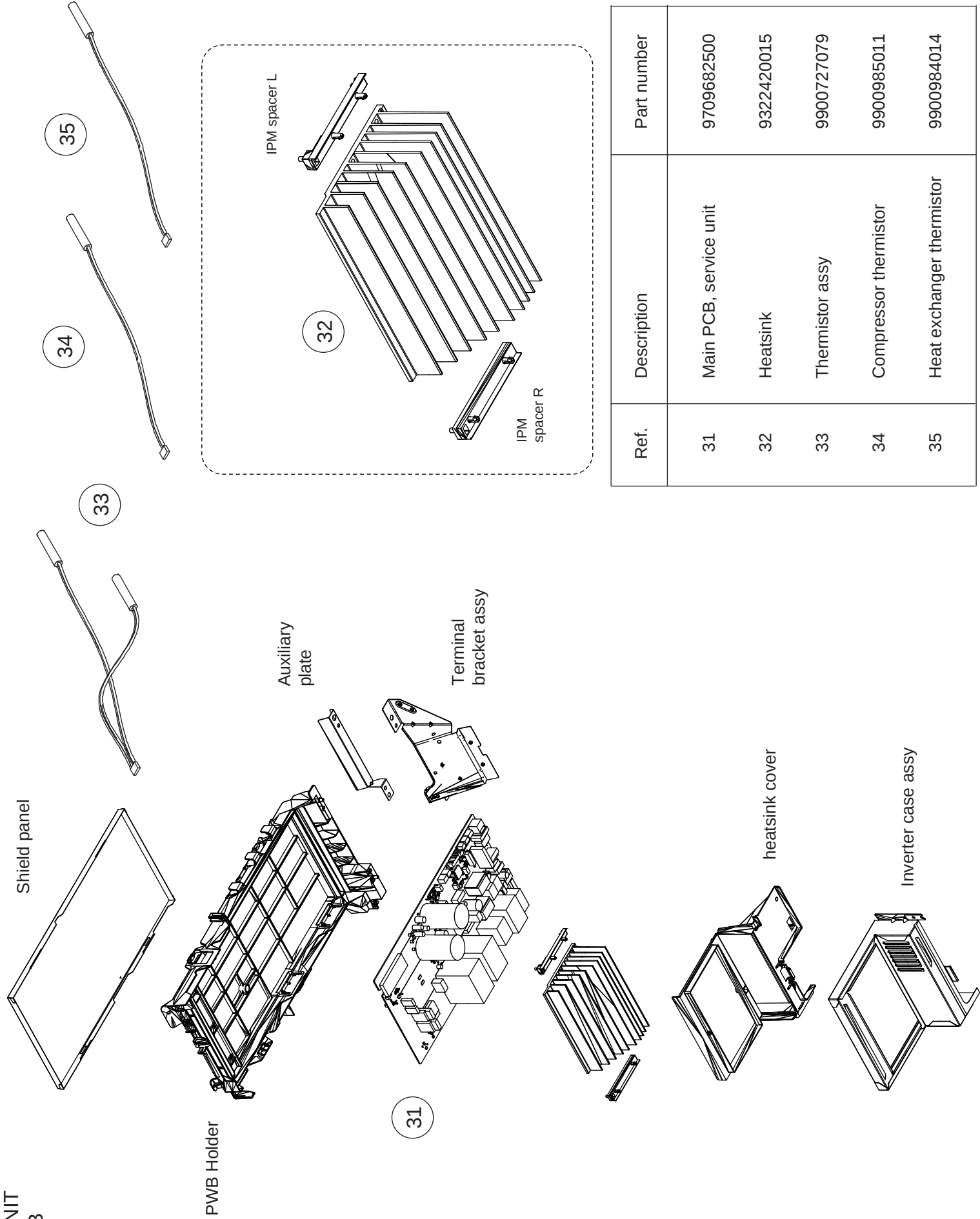


Ref.	Description	Part number
11	Top panel assy	9322556028
12	Front panel assy	9322555021
13	Blow grille	9322149008
14	Emblem	9319151007
15	Switch cover assy	9322570024
16	Cabinet right assy	9322552099
17	Propeller fan	9322150004

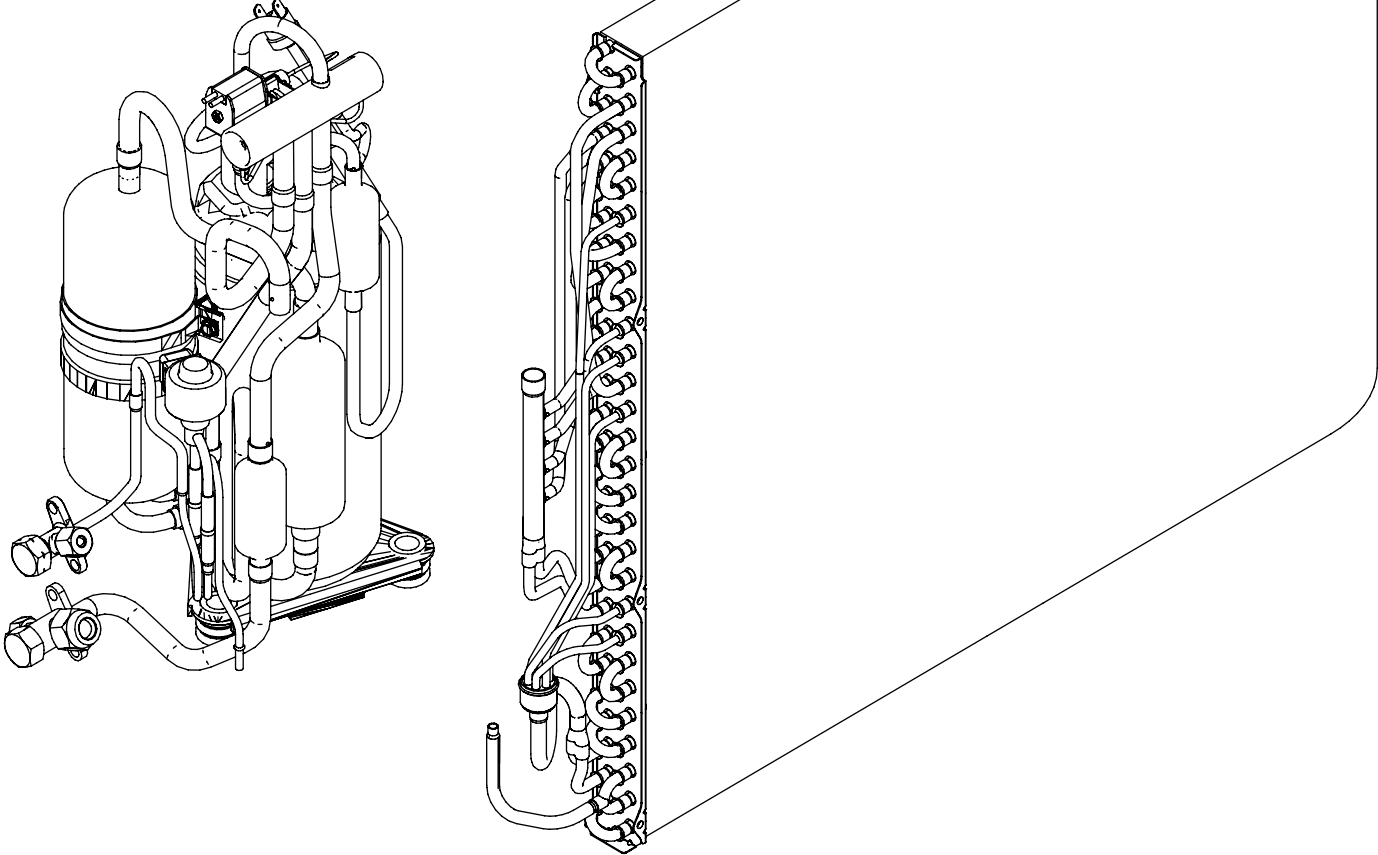
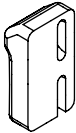
OUTDOOR UNIT
AO G22 BTB



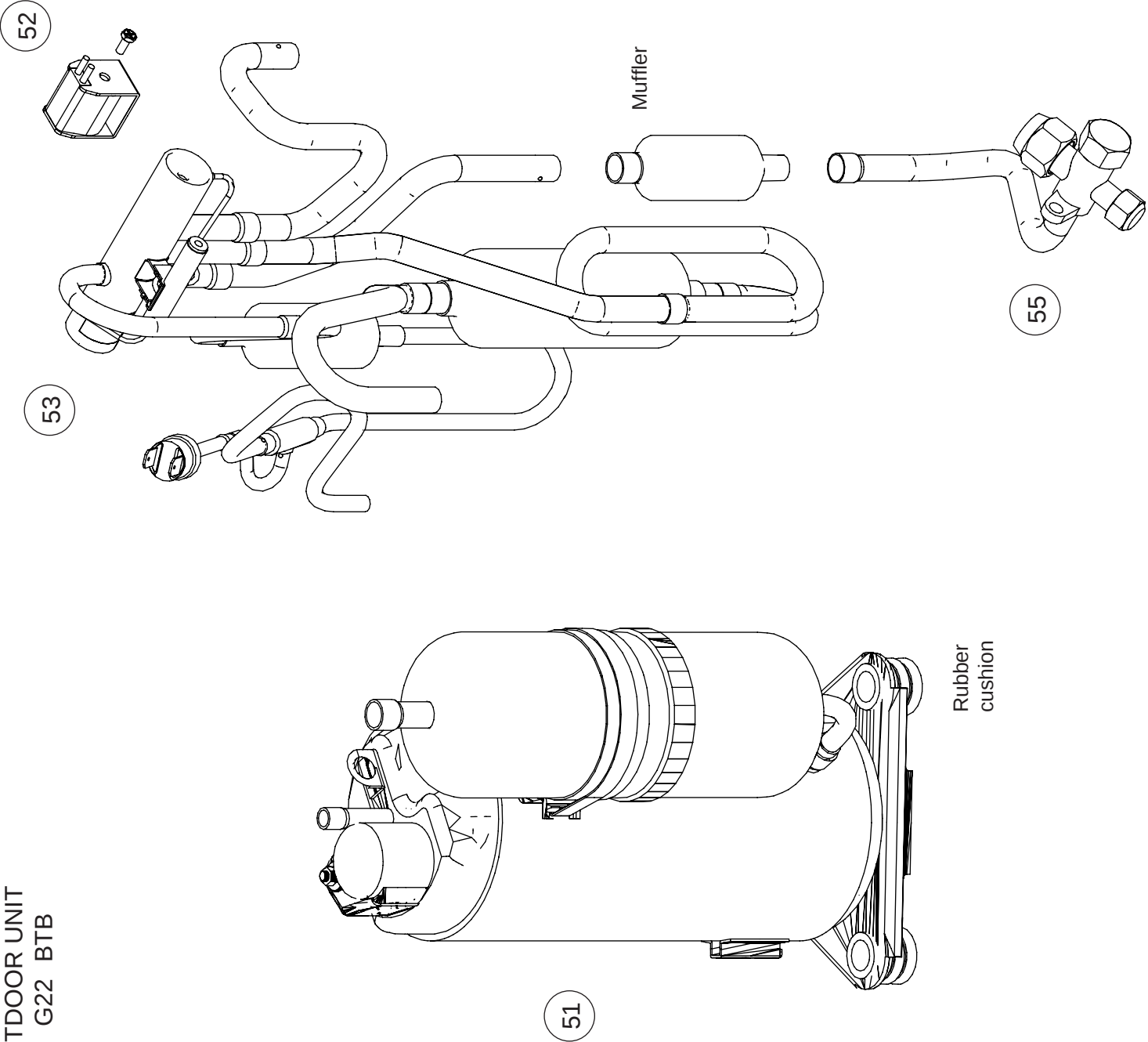
Ref.	Description	Part number
21	Motor bracket assy	9322553027
22	Brushless motor	9603601003
23	Terminal	9900435028



Hair pin
cushion



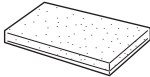
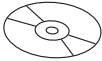
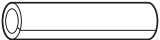
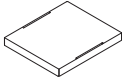
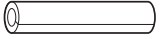
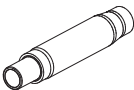
Ref.	Description	Part number
41	Condenser total assy	9317089654
	S insulator B	9322503008
	S insulator F	9322847003
	S insulator H	9322501004
	S insulator V	9323045002
	S insulator	9322824004



Ref.	Description	Part number
51	Compressor	9810521002
52	Solenoid	9970195006
53	4 way valve assy	9383129018
55	3 way valve assy	9387831016
56	Expansion valve coil	9970173028
57	Pulse motor valve assy	9322463029
58	2 way valve assy	9322474001

Accessories

**Models: AUXG09KVLA AUXG12KVLA AUXG14KVLA
AUXG1 KVLA and AUXG22KVLA**

art name	E terior	ty	art name	E terior	ty
Operating manual		1	Drain hose insulation		1
Operating manual (CD ROM)		1	Hose band		1
Installation manual		1	Coupler heat insulation (large)		1
Template (Carton top)		1	Coupler heat insulation (small)		1
M10 nut A (with flange)		4	Cable tie		2
M10 nut B (with spring lock washer)		4	Wire crammer		1
Drain hose		1			

Models: AO G09K T AO G12K T AO G14K T
AO G1 K T and AO G22K T

art name	E terior	ty	art name	E terior	ty
Installation manual		1	Drain pipe		1

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