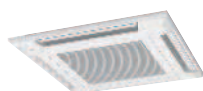


AIR CONDITIONER

Cassette type

SERVICE MANUAL

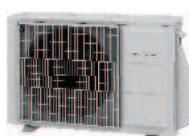


INDOOR

AUXG09KVLA
AUXG12KVLA
AUXG14KVLA
AUXG18KVLA
AUXG22KVLA



AOHG09KATA
AOHG12KATA



AOHG14KATA
AOHG18KATA



AOHG22KATA

OUTDOOR

FUJITSU GENERAL LIMITED

Notices:

- Product specifications and design are subject to change without notice for future improvement.
- For further details, please check with our authorized dealer.

Trademarks

FGLair™ is trademark of Fujitsu General Limited in the United States, other countries or both.

Google Play™ is trademark of Google Inc.

App Store® is a service mark of Apple Inc., registered in the U.S. and other countries.

CONTENTS

1. GENERAL INFORMATION

2. TECHNICAL DATA AND PARTS LIST

1. GENERAL INFORMATION

CONTENTS

1. GENERAL INFORMATION

1. Specifications.....	01-1
1-1. Indoor unit	01-1
1-2. Outdoor unit.....	01-5
2. Dimensions.....	01-7
2-1. Indoor unit	01-7
2-2. Outdoor unit.....	01-9

1. Specifications

1-1. 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—2.70	0.90—3.70	0.90—4.50	
	Btu/h		3,100—9,200	3,100—12,600	3,100—15,300		
	Heating	Rated	kW	3.20	4.10	5.00	
			Btu/h	10,900	13,400	17,000	
Min.—Max.		kW	0.90—3.90	0.90—4.40	0.90—5.30		
	Btu/h	3,100—13,300	3,100—15,000	3,100—18,000			
Input power	Cooling	Rated	kW	0.68	1.09	1.37	
		Max.		1.59	1.78	2.12	
	Heating	Rated		0.88	1.17	1.42	
		Max.		1.59	1.78	2.12	
Current	Cooling	Rated	A	3.4	5.2	6.4	
	Heating			4.4	5.8	6.6	
Power factor	Cooling			%	87.0	91.1	93.1
	Heating				87.0	87.7	93.5
EER	Cooling			kW/kW	3.68	3.21	3.14
COP	Heating				3.64	3.50	3.52
Moisture removal			L/h (pints/h)	0.6 (1.1)	1.2 (2.1)	1.5 (2.6)	
Maximum operating current *1		Cooling	A	6.9	7.7	9.2	
		Heating		6.9	7.7	9.2	
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	54		
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	Main 1: 210 × 1,310 × 13.3 Main 2: 210 × 1,250 × 13.3		
		Fin pitch			Main 1: 1.2 Main 2: 1.2		
		Rows × Stages			Main 1: 1 × 10 Main 2: 1 × 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 (Ø 1/4)		
			Gas		Ø 9.52 (Ø 3/8)		
		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 [Ø 25 (I.D.), Ø 32 (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: 5.0 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 ErP Lot10						
Model name			AUXG09KVLA		AUXG12KVLA	
Energy efficiency class			A++		A+	
Pdesign	Cooling	kW	2.5 (35°C)	3.5 (35°C)	4.3 (35°C)	
	Heating (Average)		2.3 (-10°C)	2.8 (-10°C)	3.2 (-10°C)	
SEER	Cooling	kWh/kWh	6.20	6.10	6.10	
SCOP	Heating (Average)		4.00	4.00	4.00	
Annual energy consumption	QCE	kWh/a	141	201	247	
	QHE (Average)		804	979	1,120	
Sound power level	Cooling	HIGH	dB (A)	46	49	50
	Heating			47	49	55

Type				Cassette		
				Inverter heat pump		
Model name				AUXG18KVLA	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—5.40	0.90—6.30	
			Btu/h	3,100—18,400	3,100—21,400	
	Heating	Rated	kW	6.00	7.00	
			Btu/h	20,500	23,900	
Min.—Max.		kW	0.90—6.30	0.90—7.40		
		Btu/h	3,100—21,400	3,100—25,200		
Input power	Cooling	Rated	kW	1.69	1.95	
		Max.		2.33	2.67	
	Heating	Rated		1.72	2.00	
		Max.		2.33	2.67	
Current	Cooling	Rated	A	7.8	8.6	
	Heating			7.9	8.8	
Power factor	Cooling		%	94.2	98.6	
	Heating			94.7	98.8	
EER	Cooling		kW/kW	3.08	3.08	
COP	Heating			3.49	3.50	
Moisture removal			L/h (pints/h)	2.2 (3.9)	2.6 (4.6)	
Maximum operating current *1		Cooling		A	10.1	
		Heating			11.6	
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	Main 1: 210 × 1,310 × 13.3 Main 2: 210 × 1,250 × 13.3	Main 1: 210 × 1,360 × 13.3 Main 2: 210 × 1,295 × 13.3 Main 3: 210 × 1,235 × 13.3
		Fin pitch			Main 1: 1.2 Main 2: 1.2	Main 1: 1.45 Main 2: 1.45 Main 2: 1.45
Rows × Stages		Main 1: 1 × 10 Main 2: 1 × 10	Main 1: 1 × 10 Main 2: 1 × 10 Main 3: 1 × 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 (Ø 1/4)		
		Gas		Ø 12.70 (Ø 1/2)		
	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		mm	VP25 [Ø 25(I.D.), Ø 32(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: 5.0 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 ErP Lot10					
Model name			AUXG18KVLA		AUXG22KVLA
Energy efficiency class	Cooling		A++		
	Heating (Average)		A		
Pdesign	Cooling	kW	5.2 (35°C)	6.0 (35°C)	
	Heating (Average)		3.8 (-10°C)	4.4 (-10°C)	
SEER	Cooling	kWh/kWh	6.10	6.10	
SCOP	Heating (Average)		3.90	3.90	
Annual energy consumption	QCE	kWh/a	298	344	
	QHE (Average)		1,362	1,578	
Sound power level	Cooling	HIGH	dB (A)	50	56
	Heating			55	57

1-2. Outdoor unit

Type				Inverter heat pump								
Model name				AOHG09KATA		AOHG12KATA		AOHG14KATA				
Power supply				230 V ~ 50 Hz								
Available voltage range				198—264 V								
Starting current				A		4.4		5.8		6.6		
Fan	Airflow rate	Cooling	m³/h	1,610		1,630		1,670				
		Heating		1,550		1,410		1,580				
		Type × Q'ty		Propeller fan × 1								
	Motor output		W		23							
Sound pressure level *1		Cooling	dB (A)	47		49		50				
		Heating		48		50		51				
Sound power level		Cooling	dB (A)	60		62		63				
		Heating		60		62		63				
Heat exchanger type		Dimensions (H × W × D)	mm	504 × 650 × 18.19		Main 1: 504 × 630 × 18.19 Main 2: 504 × 630 × 18.19		Main 1: 504 × 881 × 18.19 Main 2: 504 × 851 × 18.19				
		Fin pitch		1.3		Main 1: 1.3 Main 2: 1.3						
		Rows × Stages		1 × 24		Main 1: 1 × 24 Main 2: 1 × 24						
		Pipe type		Copper								
		Fin type		Type (Material)	Aluminum							
				Surface treatment	PC fin							
Compressor	Type × Q'ty		DC rotary × 1									
	Motor output		W		550		900					
Refrigerant		Type (Global warming potential)		R32 (675)								
		Charge	g	600		700		850				
Refrigerant oil		Type		RB74AF				RB68A				
		Amount	cm³	240				340				
Enclosure		Material		Steel sheet								
		Color		Beige Approximate color of Munsell 10YR 7.5/1.0								
Dimensions (H × W × D)	Net		mm	541 × 663 × 290				542 × 799 × 290				
	Gross			602 × 804 × 375				602 × 940 × 375				
Weight	Net		kg	23		25		32				
	Gross			27		29		36				
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			15				20				
	Max. height difference			15								
Operation range		Cooling	°C	-10 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:												
<ul style="list-style-type: none">Specifications are based on the following conditions:<ul style="list-style-type: none">– 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: 5.0 m, Height difference: 0 m.Protective function might work when using it outside the operation range.*1: Sound pressure level<ul style="list-style-type: none">– 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.												

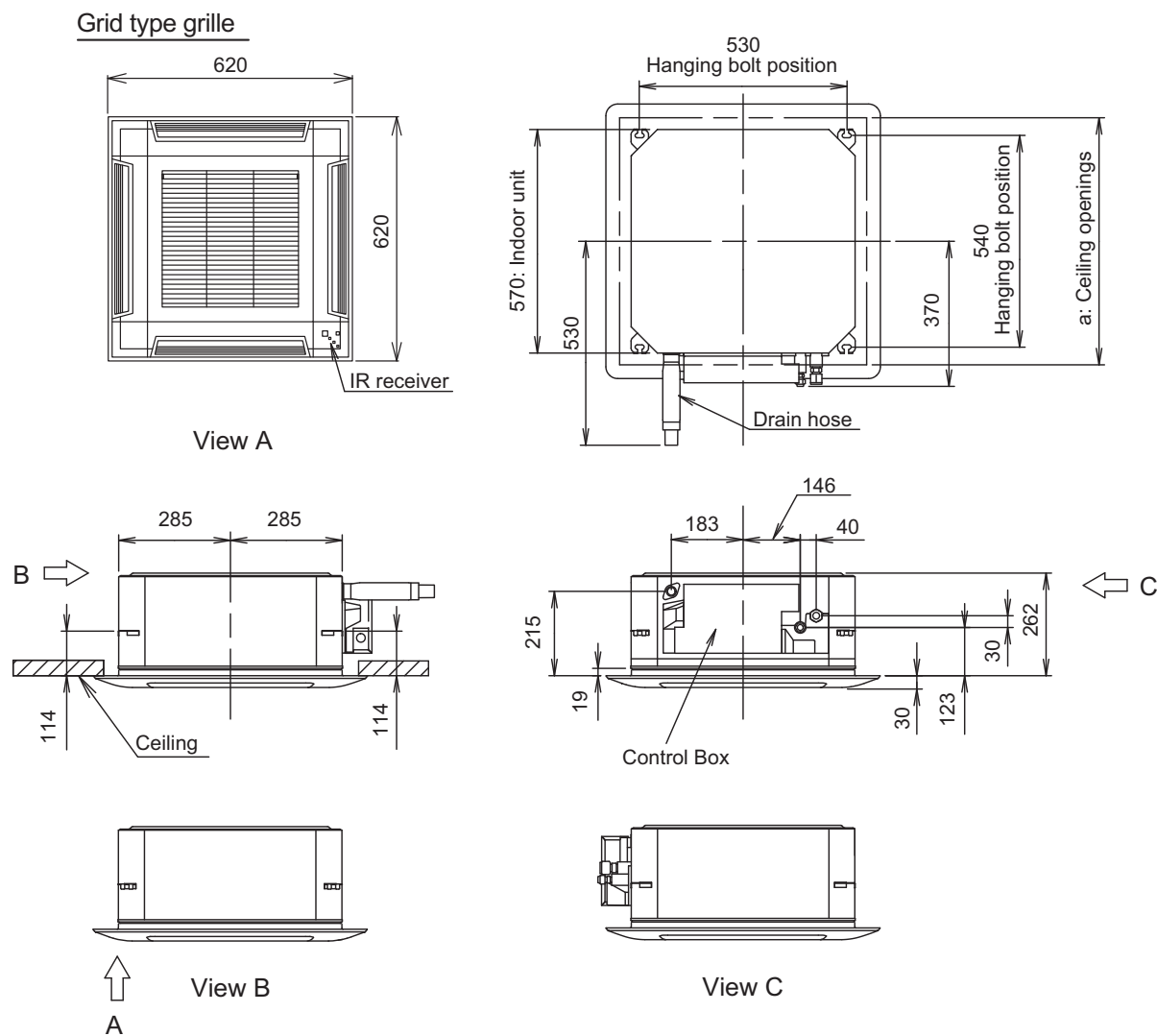
Type				Inverter heat pump		
Model name				AOHG18KATA	AOHG22KATA	
Power supply				230 V ~ 50 Hz		
Available voltage range				198—264 V		
Starting current			A	7.9	8.8	
Fan	Airflow rate	Cooling	m³/h	1,710	2,240	
		Heating			2,240	
	Type × Q'ty			Propeller fan × 1		
	Motor output		W	23	49	
Sound pressure level *1		Cooling	dB (A)	51	52	
		Heating		52	53	
Sound power level		Cooling	dB (A)	63	64	
		Heating		64	65	
Heat exchanger type		Dimensions (H × W × D)	mm	Main 1: 504 × 881 × 18.19 Main 2: 504 × 851 × 18.19	Main 1: 588 × 881 × 18.19 Main 2: 588 × 851 × 18.19	
		Fin pitch		Main 1: 1.3 Main 2: 1.3		
		Rows × Stages		Main 1: 1 × 24 Main 2: 1 × 24	Main 1: 1 × 28 Main 2: 1 × 28	
		Pipe type		Copper		
		Fin type		Type (Material)	Aluminum	
				Surface treatment	PC fin	
Compressor	Type × Q'ty		DC rotary × 1		DC twin rotary × 1	
	Motor output		W	900		
Refrigerant		Type (Global warming potential)		R32 (675)		
		Charge	g	900	1,100	
Refrigerant oil		Type		RB68A	FW68S	
		Amount	cm³	340	350	
Enclosure		Material		Steel sheet		
		Color		Beige Approximate color of Munsell 10YR 7.5/1.0		
Dimensions (H × W × D)	Net		mm	542 × 799 × 290	632 × 799 × 290	
	Gross			602 × 940 × 375	692 × 940 × 375	
Weight	Net		kg	33	36	
	Gross			36	40	
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	15		
	Max. length			20	25	
	Max. height difference			15	20	
Operation range		Cooling	°C	-10 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: 5.0 m, Height difference: 0 m (Between outdoor unit and indoor unit.).						
• 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.						

2. Dimensions

2-1. Indoor unit

■ **Models: AUXG09KVLA, AUXG12KVLA, AUXG14KVLA, AUXG18KVLA, and AUXG22KVLA**

Unit: mm

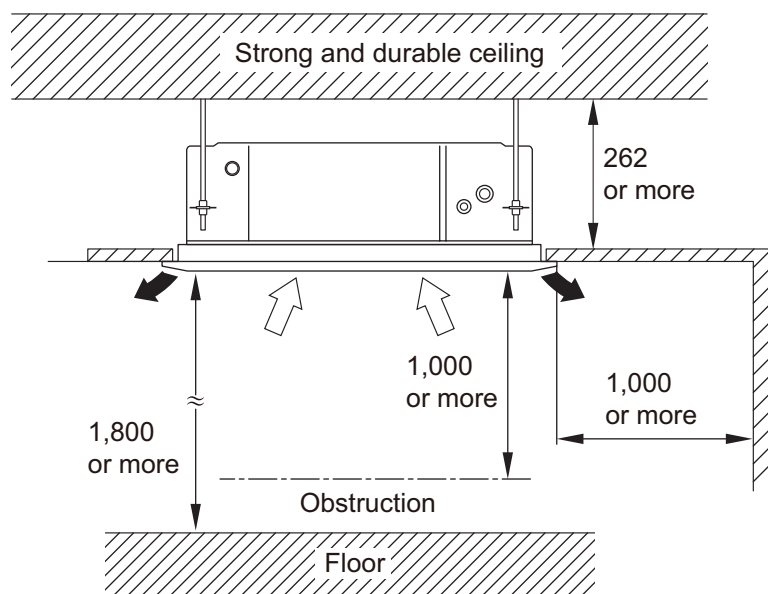


a: Ceiling openings

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

■ Installation space requirement

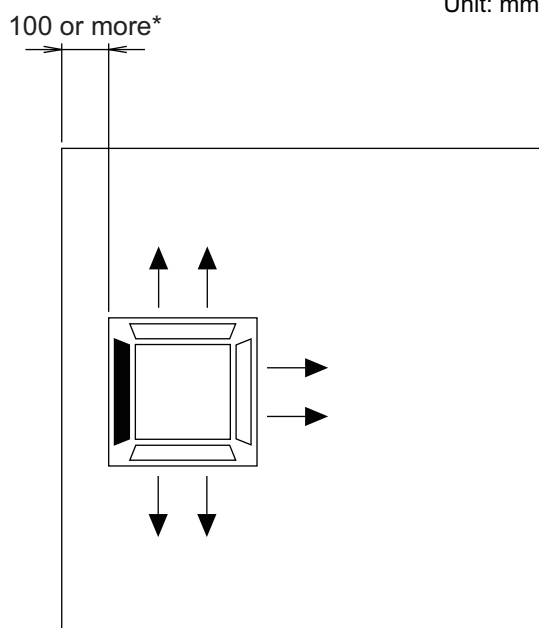
Unit: mm



Maximum height from floor to ceiling (Unit: mm)	
Standard	2,700
High ceiling	3,000

3-way direction setting:

Unit: mm



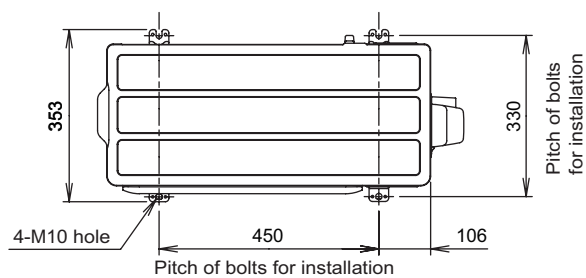
NOTES:

- To set "3-direction", optional Air outlet shutter plate (UTR-YDZB) must be installed, and the "outlet-direction" need to be switched to "3-way" by remote controller.
*When installing the indoor unit, be careful about the maintenance space.
- The ceiling height cannot be set in the 3-way outlet mode. Therefore, ceiling height setting change by function setting 20 is prohibited. For details, refer to "Contents of function setting" on page 1.

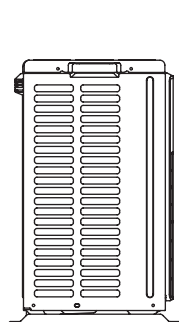
2-2. Outdoor unit

■ Models: AOHG09KATA and AOHG12KATA

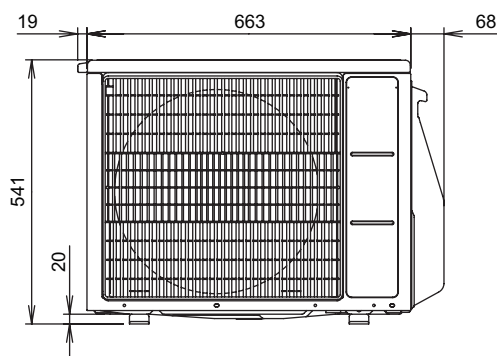
Unit: mm



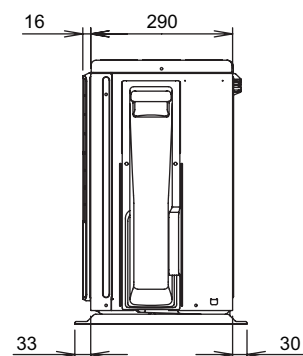
Top view



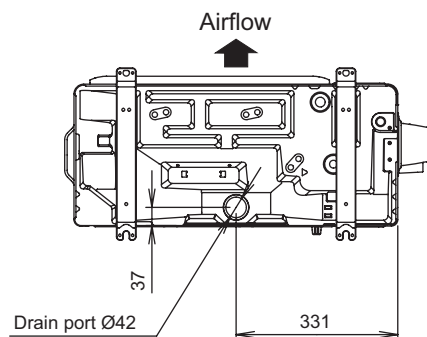
Side view



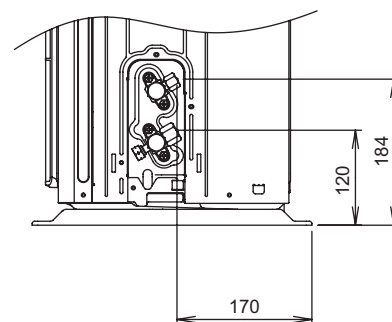
Front view



Side view



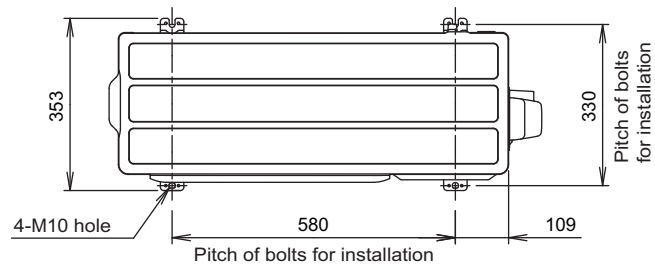
Bottom view



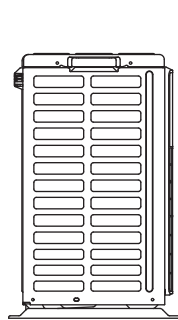
Side view (Valve part)

Models: AOHG14KATA and AOHG18KATA

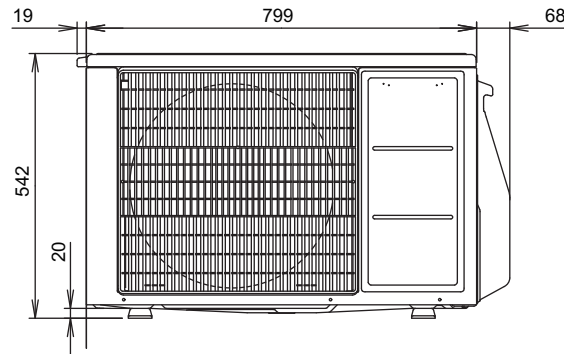
Unit: mm



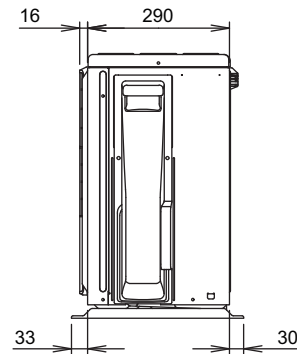
Top view



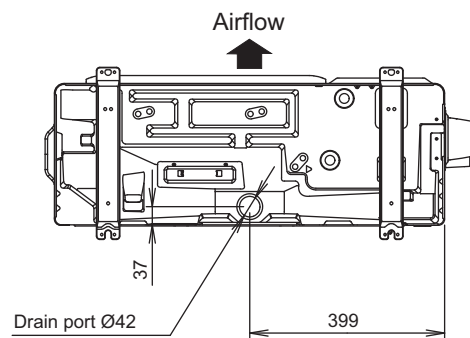
Side view



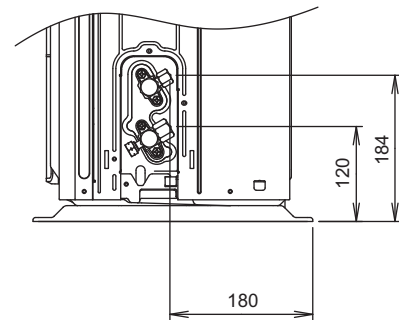
Front view



Side view



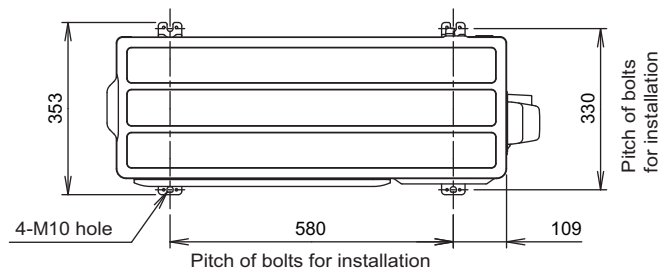
Bottom view



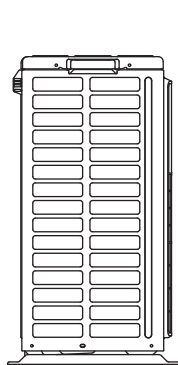
Side view (Valve part)

Model: AOHG22KATA

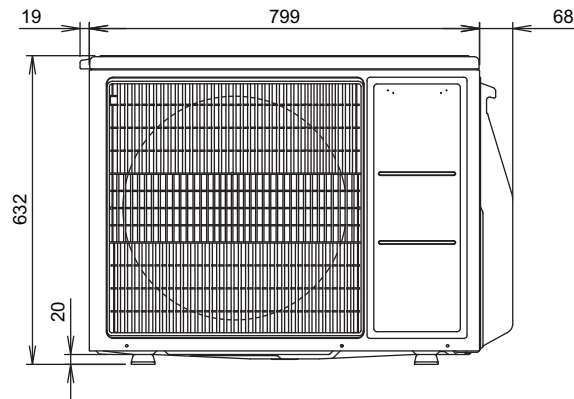
Unit: mm



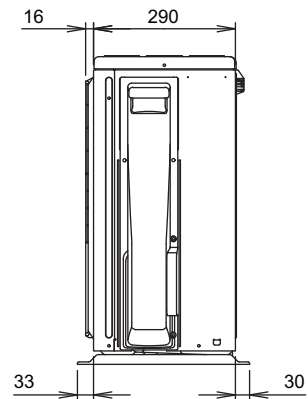
Top view



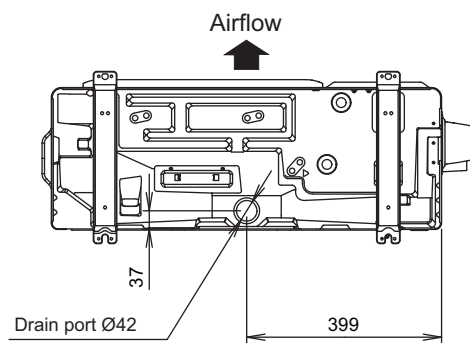
Side view



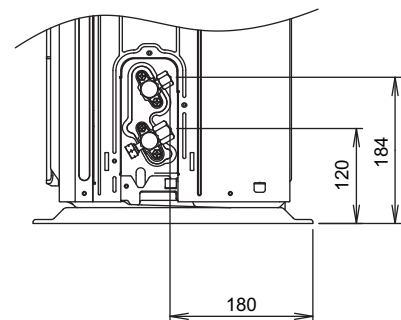
Front view



Side view



Bottom view



Side view (Valve part)

2. TECHNICAL DATA AND PARTS LIST

CONTENTS

2. TECHNICAL DATA AND PARTS LIST

1. Precautions.....	02-1
2. Indoor unit parts list.....	02-2
2-1. Models: AUXG09KVLA, AUXG12KVLA, AUXG14KVLA, AUXG18KVLA, and AUXG22KVLA.....	02-2
3. Outdoor unit parts list.....	02-7
3-1. Models: AOHG09KATA and AOHG12KATA	02-7
3-2. Models: AOHG14KATA and AOHG18KATA	02-11
3-3. Model: AOHG22KATA.....	02-15
4. Accessories	02-19
4-1. Indoor unit	02-19
4-2. Outdoor unit.....	02-19
5. Optional parts	02-20
5-1. Indoor unit	02-20
6. Refrigerant system diagrams	02-23
6-1. Models: AOHG09KATA and AOHG12KATA	02-23
6-2. Models: AOHG14KATA and AOHG18KATA	02-24
6-3. Model: AOHG22KATA.....	02-25
7. Wiring diagrams	02-26
7-1. Indoor unit	02-26
7-2. Outdoor unit.....	02-27
8. PC board diagrams	02-29
8-1. Models: AUXG09KVLA, AUXG12KVLA, AUXG14KVLA, AUXG18KVLA, and AUXG22KVLA.....	02-29
8-2. Models: AOHG09KATA, AOHG12KATA, AOHG14KATA, and AOHG18KATA.....	02-30
8-3. Model: AOHG22KATA.....	02-31

1. Precautions

When you start servicing, pay attention to the following points. For detailed precautions, refer to the installation manual of the products.

CAUTION

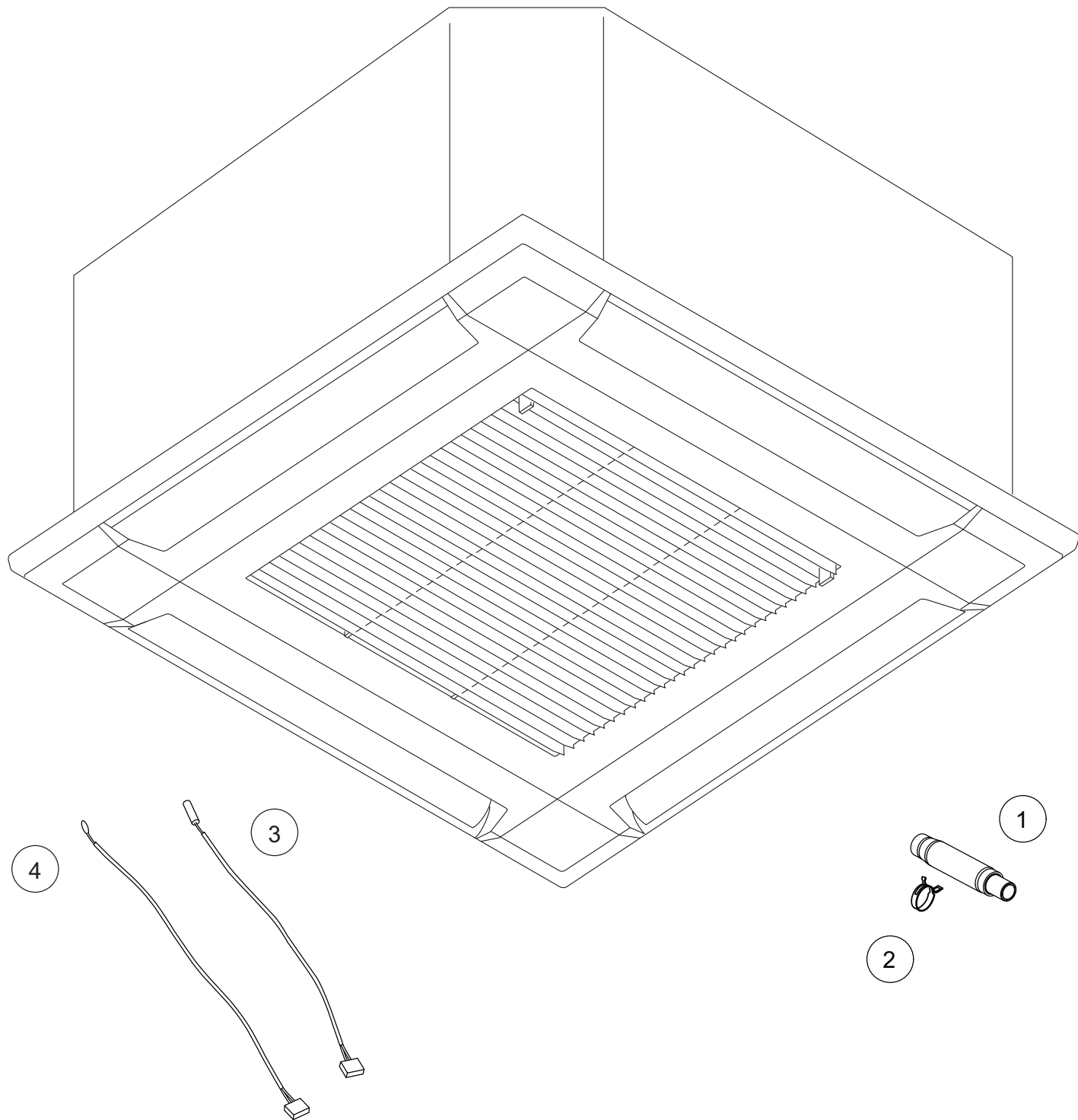
-
- Service personnel
 - Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorizes their competence to handle refrigerants safely in accordance with an industry recognized assessment specification.
 - Servicing shall only be performed as recommended by the equipment manufacturer. Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
 - Servicing shall be performed only as recommended by the manufacturer.
 - Work
 - Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. When repairing the refrigerant system, refer to the precautions written in the installation manual of the products before you start servicing.
 - Work shall be undertaken under a controlled procedure so as to minimize the risk of a flammable gas or vapor being present while the work is being performed.
 - All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out.
 - Work in confined spaces shall be avoided.
 - The area around the workspace shall be sectioned off.
 - Ensure that the conditions within the area have been made safe by control of flammable material.
 - Checking for presence of refrigerant
 - The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres.
 - Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.
-
- Service parts information and design are subject to change without notice for product improvement.
 - For the latest information of the service parts, refer to our Service Portal.
<https://fujitsu-general.force.com/portal/>
 - Precise figure of the service parts listed in this manual may differ from the actual service parts.

2. Indoor unit parts list

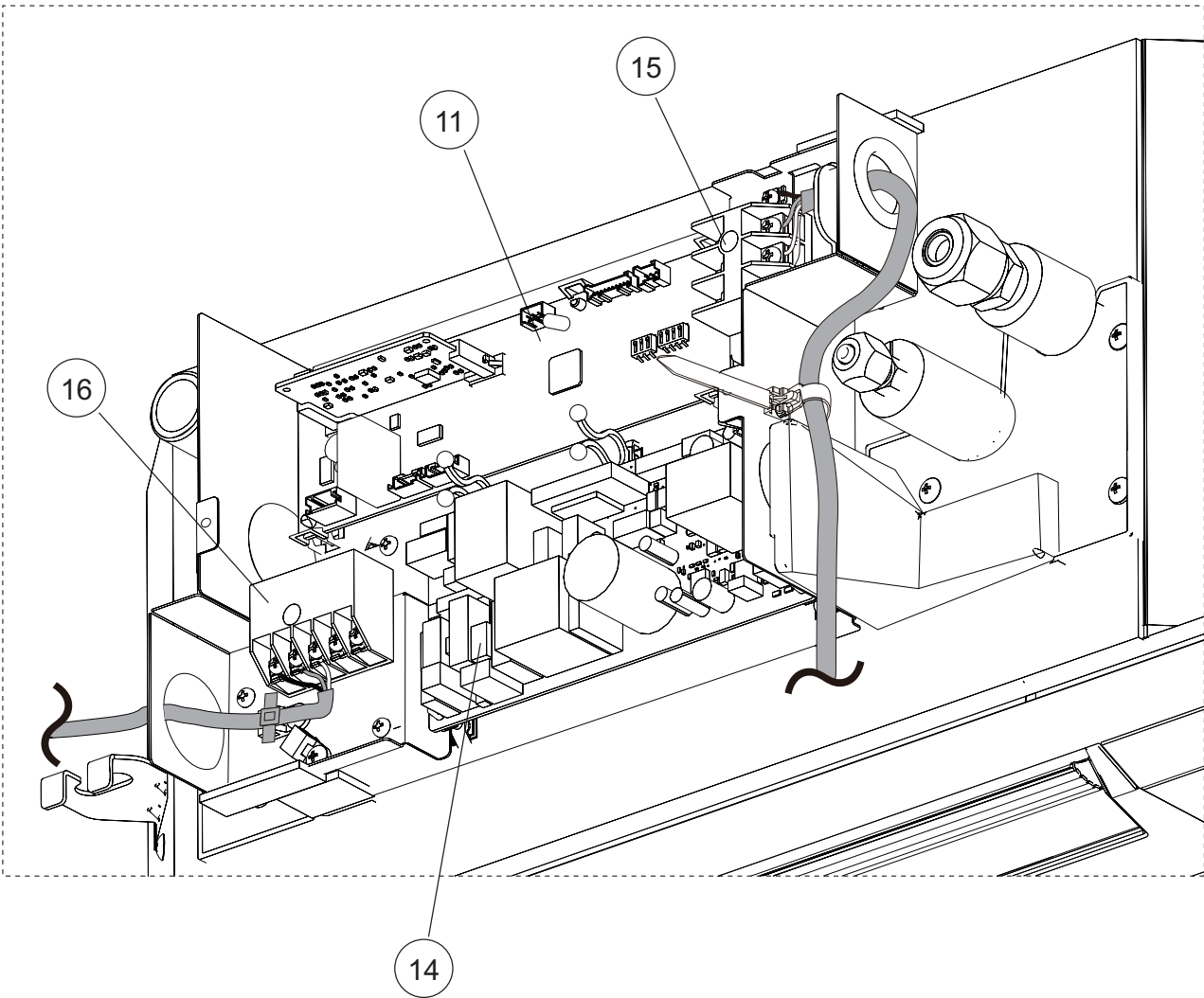
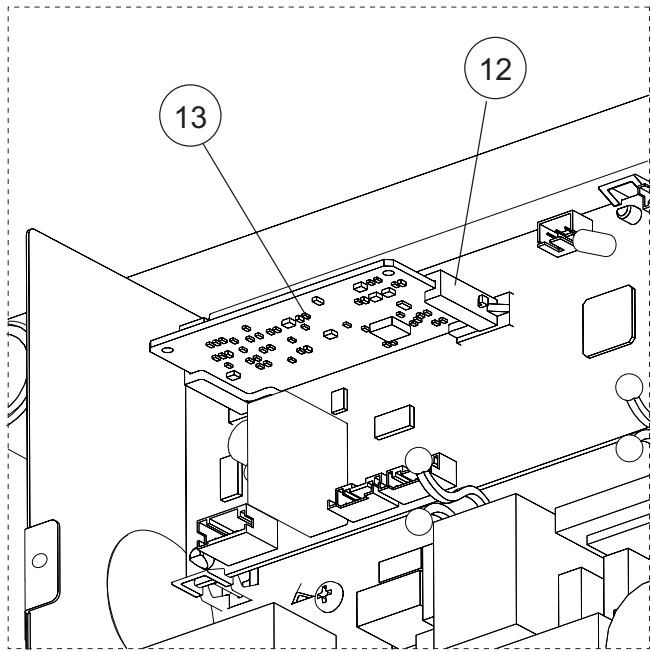
2-1. Models: AUXG09KVLA, AUXG12KVLA, AUXG14KVLA, AUXG18KVLA, and AUXG22KVLA

TECHNICAL DATA
AND PARTS LIST

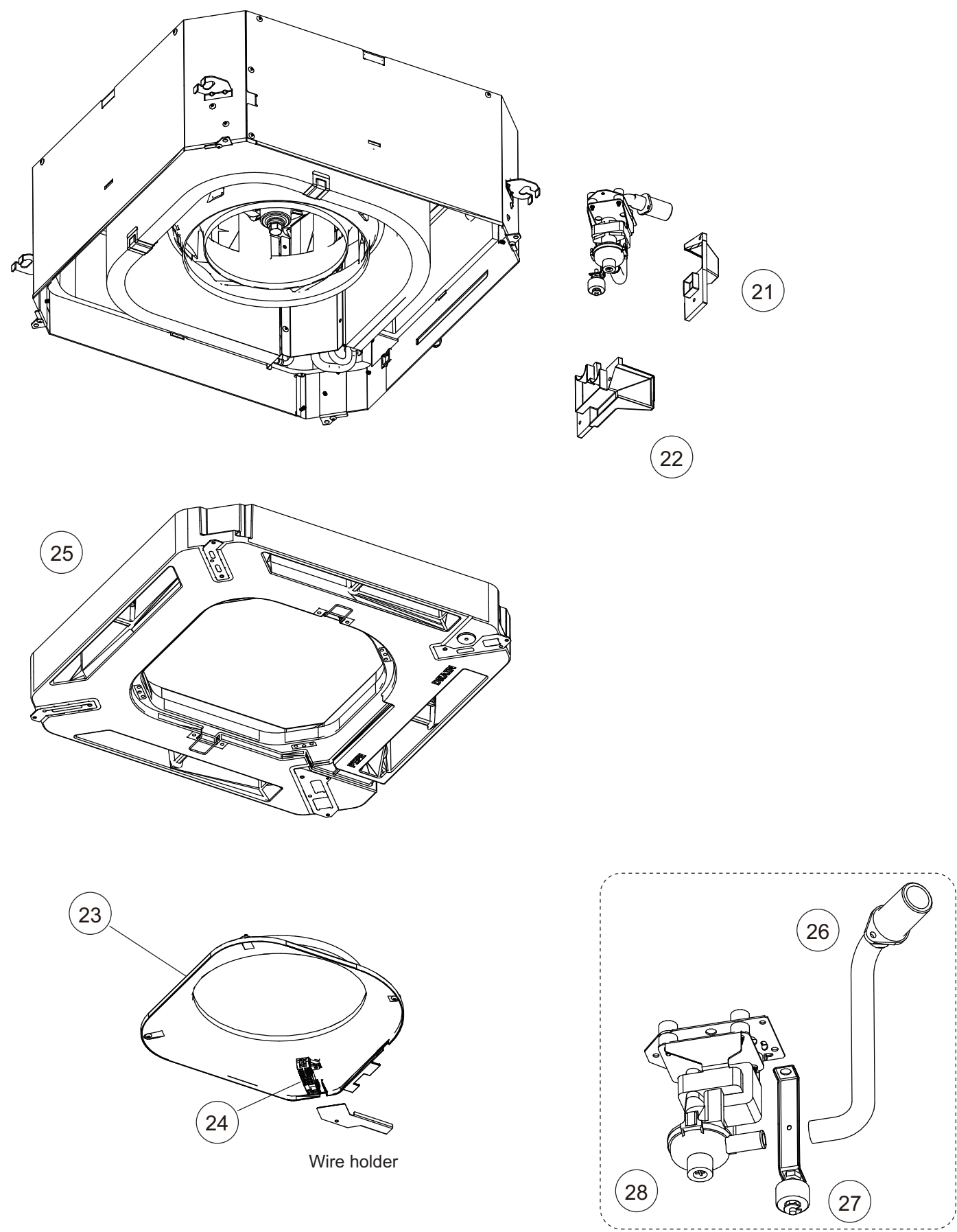
TECHNICAL DATA
AND PARTS LIST



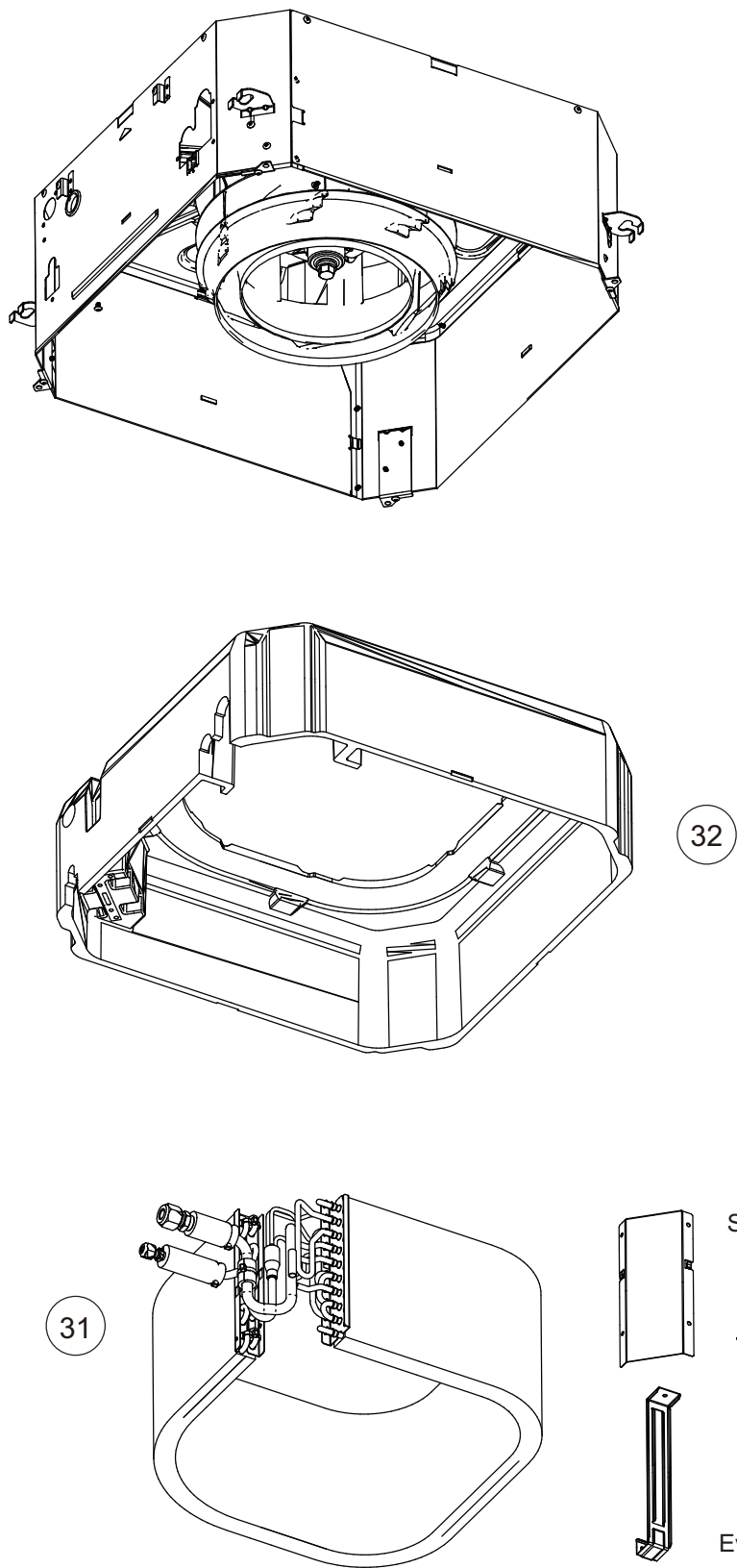
Ref.	Description	Part number
1	Drain hose	9379665001
2	Hose band	9379757010
3	Pipe Thermistor	9900942038
4	Room Thermistor	9900826000



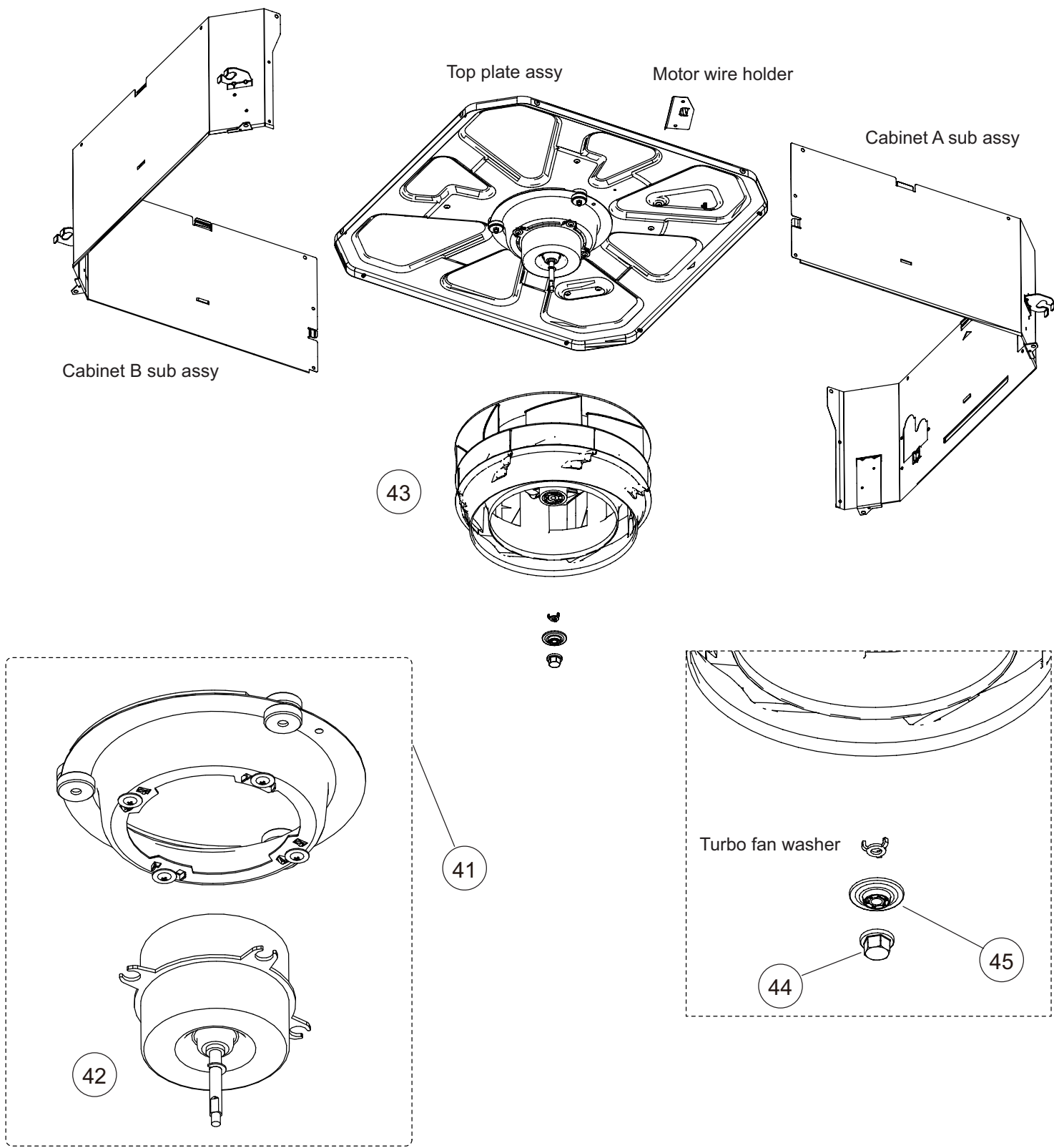
Ref.	Description	Part number
11	Main PCB (07)	9710995965
11	Main PCB (09)	9710995743
11	Main PCB (12)	9710995750
11	Main PCB (14)	9710995705
11	Main PCB (18)	9710995767
11	Main PCB (22)	9710995613
11	Main PCB (24)	9710995866
12	Holder	0600063023
13	Communication PCB	9710019005
14	Power supply PCB	9710661006
15	Terminal	9900568009
16	Terminal	9900896003



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



Ref.	Description	Part number
31	Evaporator total assy (07)	9377914156
31	Evaporator total assy (09, 12)	9377914101
31	Evaporator total assy (14)	9377914118
31	Evaporator total assy (18)	9377914125
31	Evaporator total assy (22, 24)	9377914149
32	Insulation box sub assy (07-18)	9377764065
32	Insulation box sub assy (22, 24)	9377764058

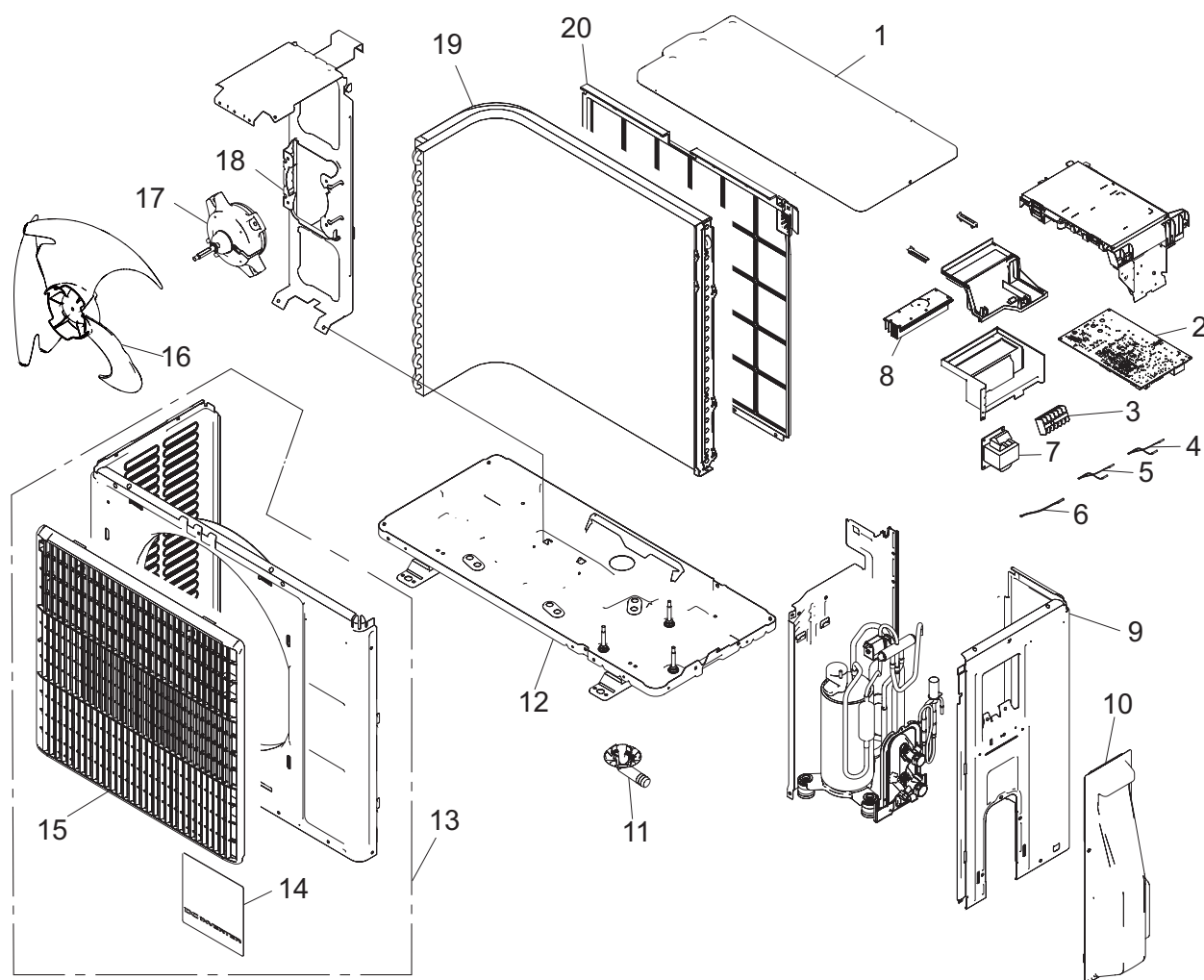


Ref.	Description	Part number
41	Fan motor sub assy	9375719012
42	Fan motor	9602436019
43	2 stage turbo fan assy	9375480011
44	Shaft cap	9377807014
45	Washer cover	9377811011

3. Outdoor unit parts list

3-1. Models: AOHG09KATA and AOHG12KATA

■ Exterior parts and chassis

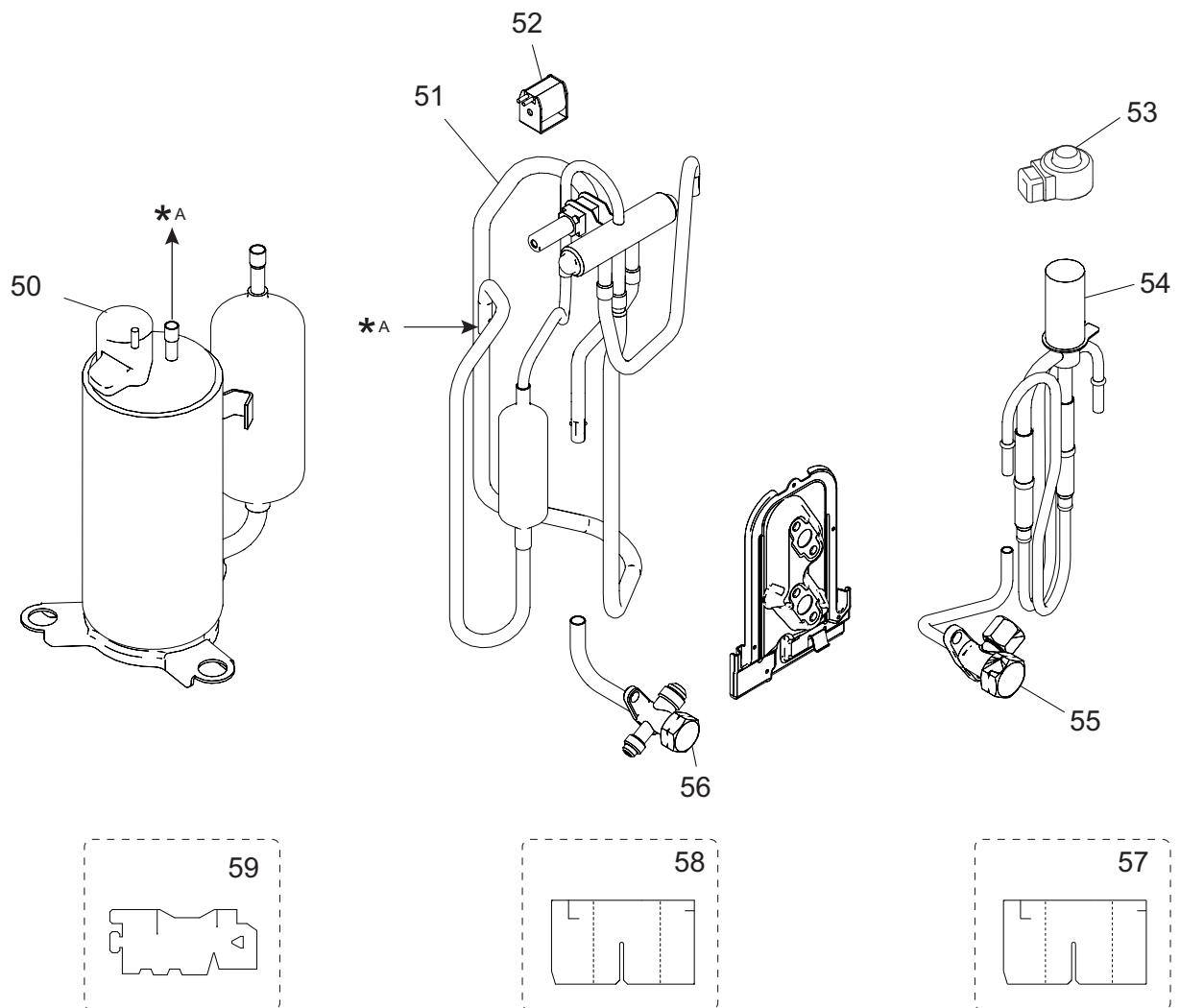


Item no.	Part no.	Part name	Service part
1	9322556103	Top panel assy	◆
2	9709685273	Main PCB (Service) (for 09 model)	◆
	9709685365	Main PCB (Service) (for 12 model)	◆
3	9900435028	Terminal 6P	◆
4	9900727062	Thermistor assy	◆
5	9900565060	Thermistor assy (Outdoor temp.)	◆
6	9900984014	Heat exchanger thermistor	◆
7	9900583019	Reactor assy	◆
8	9322418005	Heat sink	◆
9	9322552112	Cabinet right assy	◆
10	9322570000	Switch cover assy	◆
11	9322144003	Drain pipe	◆
12	9322308023	Base assy	◆
13	9322555106	Front panel assy	◆
14	9383190001	Emblem	◆
15	9322135001	Blow grille	◆
16	9322136008	Propeller fan	◆
17	9603657017	DC fan motor	◆
18	9322553003	Motor bracket assy	◆
19	9323834064	Heat exchanger unit (for 09 model)	◆
	9323834095	Heat exchanger unit (for 12 model)	◆
20	9322811004	Protective net	◆

■ Compressor

TECHNICAL DATA
AND PARTS LIST

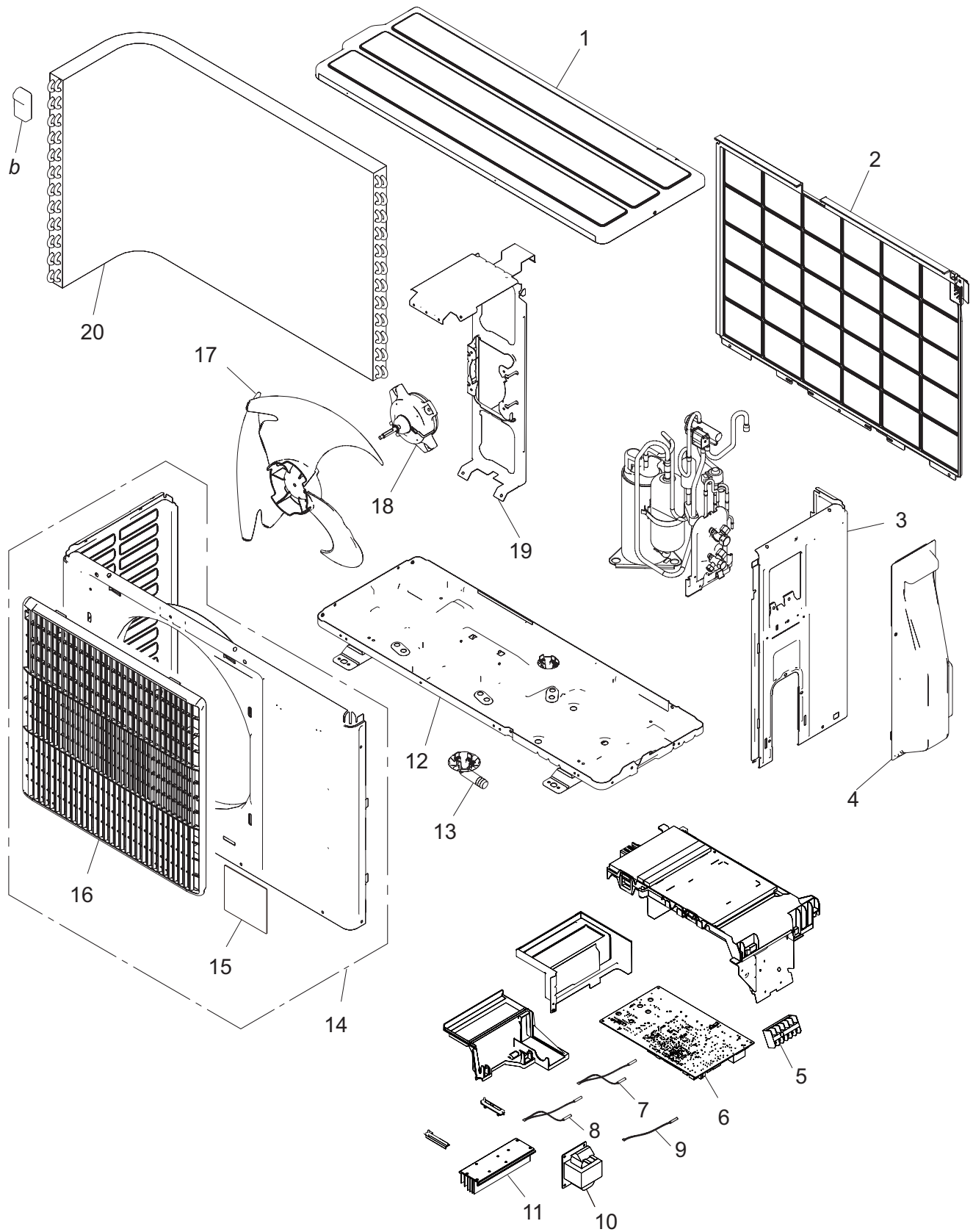
TECHNICAL DATA
AND PARTS LIST



Item no.	Part no.	Part name	Service part
50	9322423009	Compressor assy (for 09 model)	◆
	9322425003	Compressor assy (for 12 model)	◆
51	9322392008	4 way valve assy	◆
52	9970110153	Solenoid	◆
53	9970173011	Expansion valve coil	◆
54	9322403001	Pulse motor valve	◆
55	9322474025	2 way valve assy	◆
56	9318254051	3 way valve assy	◆
57	9322389008	S insurator H	◆
58	9322388001	S insurator F	◆
59	9322387004	S insurator B	◆

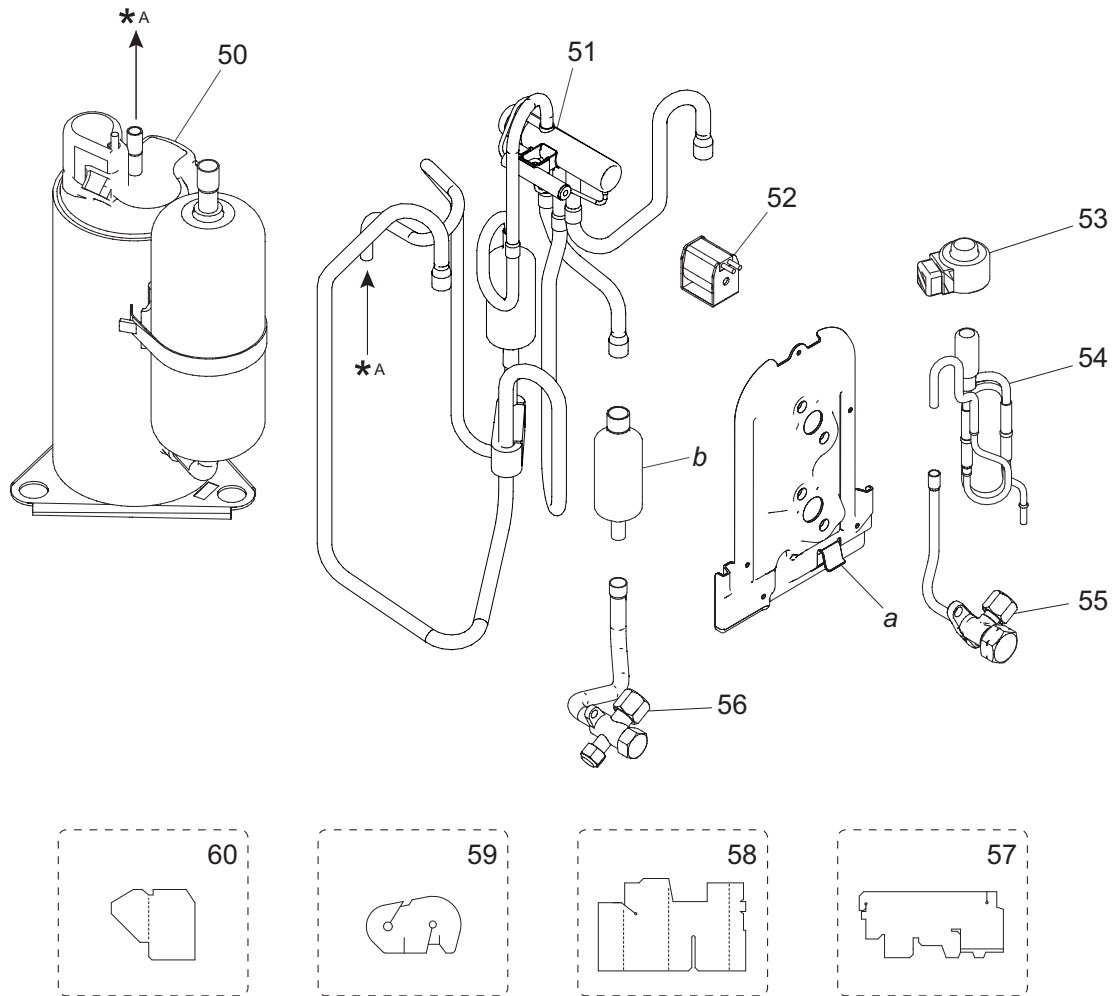
3-2. Models: AOHG14KATA and AOHG18KATA

■ Exterior parts and Chassis



Item no.	Part no.	Part name	Service part
1	9322556028	Top panel assy	◆
2	9322811011	Protective net	◆
3	9322552020	Cabinet right assy	◆
4	9322570000	Switch cover assy	◆
5	9900435028	Terminal 6P	◆
6	9709685280	Main PCB (Service) (for 14 model)	◆
	9709685372	Main PCB (Service) (for 18 model)	◆
7	9900727062	Thermistor assy	◆
8	9900565060	Thermistor (Outdoor temp.)	◆
9	9900984014	Heat exchanger thermistor	◆
10	9900583019	Reactor assy (for 14 model)	◆
	9900963019	Reactor assy (for 18 model)	◆
11	9322418005	Heat sink	◆
12	9322314024	Base assy	◆
13	9322144003	Drain pipe	◆
14	9322555014	Front panel assy	◆
15	9319157009	Emblem	◆
16	9322135001	Blow grille	◆
17	9322136008	Propeller fan	◆
18	9603657017	DC fan motor	◆
19	9322553010	Motor bracket assy	◆
20	9323834132	Heat exchanger unit	◆
a	—	Hair pin cushion	—

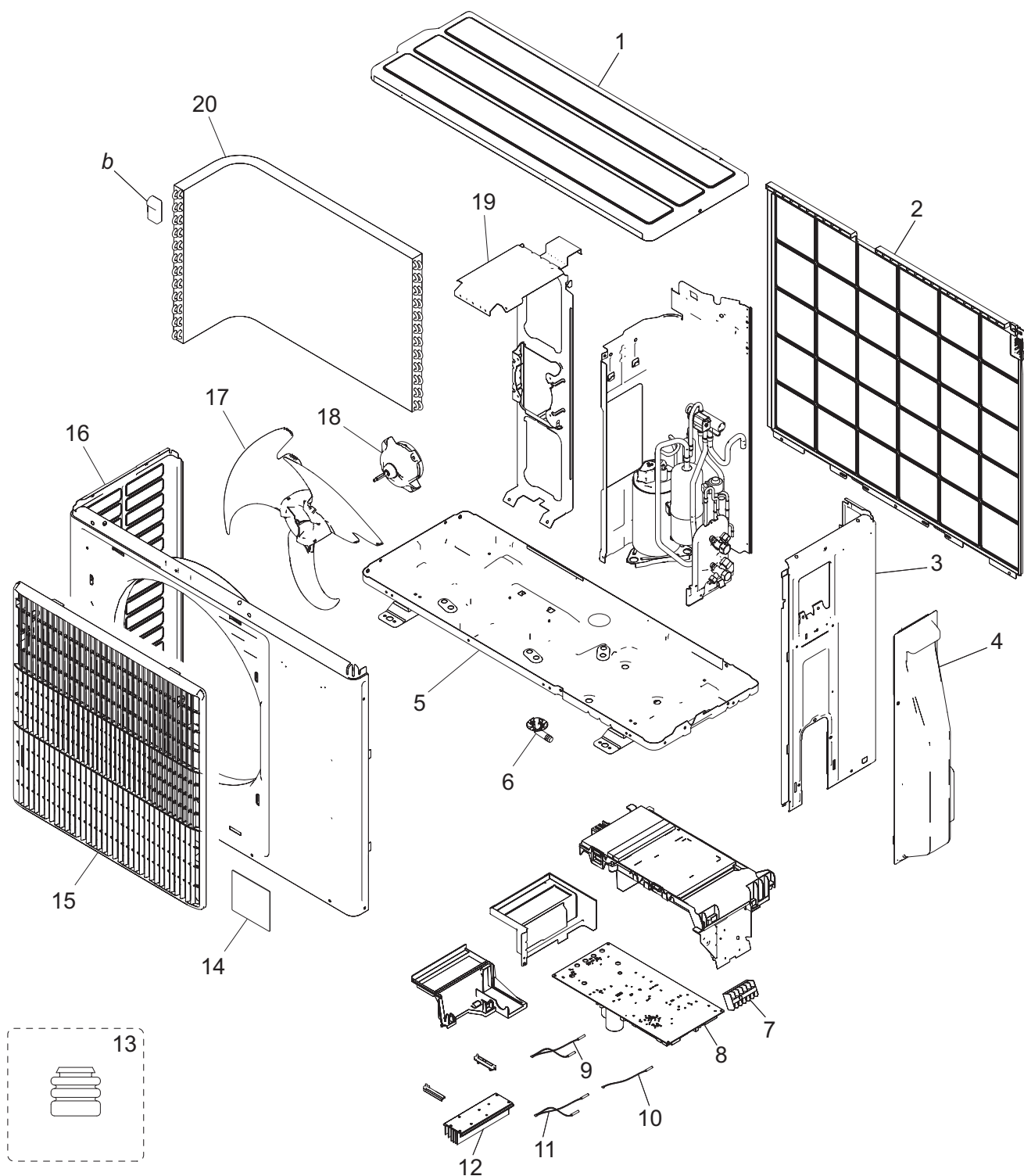
■ Compressor



Item no.	Part no.	Part name	Service part
50	9322427007	Compressor assy (for 14 model)	◆
	9322429001	Compressor assy (for 18 model)	◆
51	9322444011	4-way valve assy	◆
52	9970110160	Solenoid	◆
53	9970173011	Expansion valve coil	◆
54	9322463029	Pulse motor valve assy	◆
55	9322474001	2-way valve assy	◆
56	9322475008	3-way valve assy (for 14 model)	◆
	9387831016	3-way valve assy (for 18 model)	◆
57	9322535009	S-insulator B	◆
58	9322536006	S-insulator F	◆
59	9322537003	S-insulator H	◆
60	9323045002	S-insulator V	◆
a	—	Valve bracket	—
b	—	Muffler	—

3-3. Model: AOHG22KATA

■ Exterior parts and Chassis

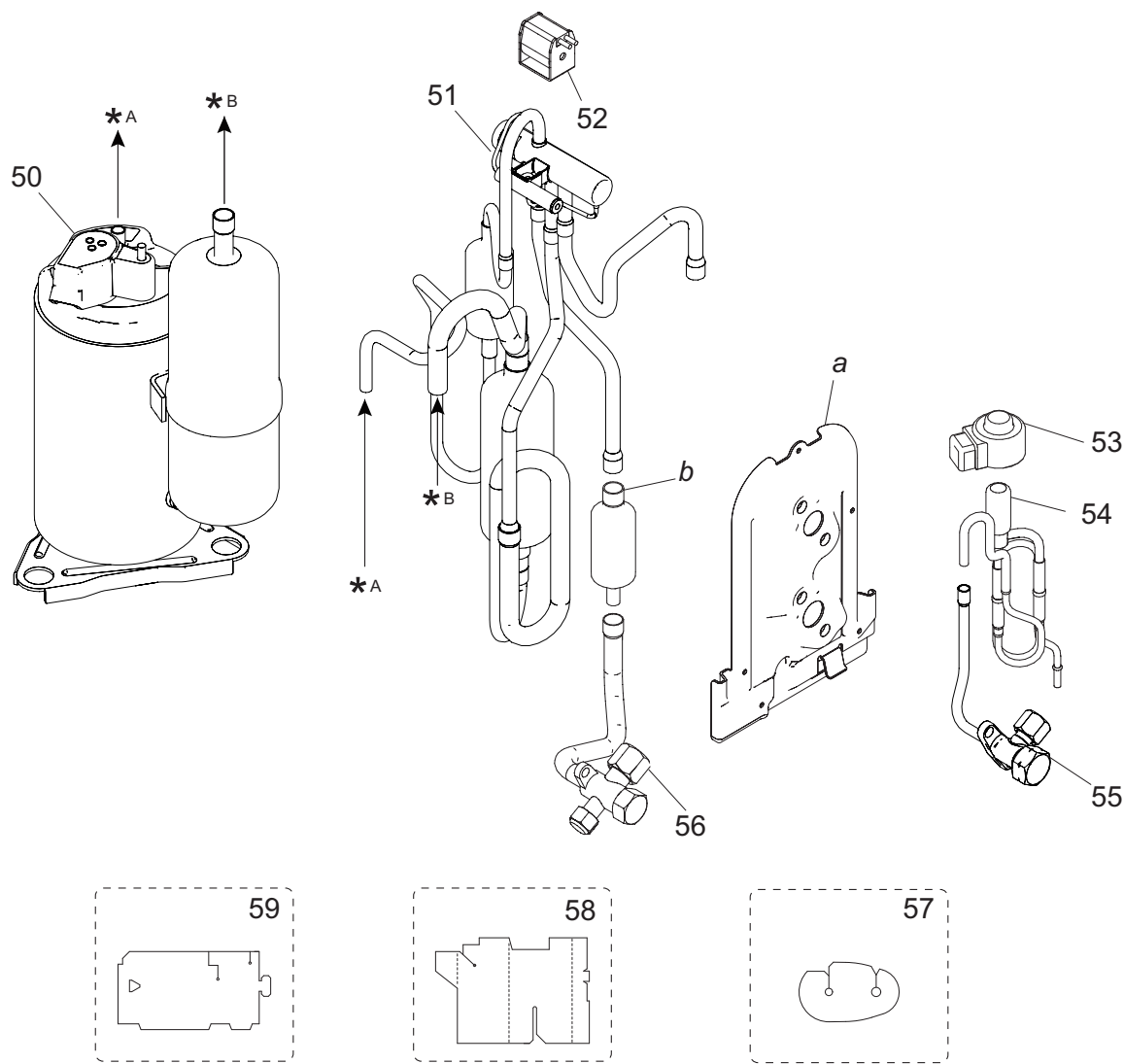


Item no.	Part no.	Part name	Service part
1	9322556028	Top panel assy	◆
2	9322811028	Protective net assy	◆
3	9322552099	Cabinet right assy	◆
4	9322570024	Switch cover assy	◆
5	9322314024	Base assy	◆
6	9322144003	Drain pipe	◆
7	9900435028	Terminal 6P	◆
8	9709685297	Main PCB (Service)	◆
9	9900727079	Thermistor assy	◆
10	9900984014	Heat exchanger thermistor	◆
11	9900565060	Thermistor assy (Outdoor temp.)	◆
12	9322420039	Heat sink	◆
13	9322386007	Cushion rubber	◆
14	9319157009	Emblem	◆
15	9322149008	Blow grille	◆
16	9322555021	Front panel assy	◆
17	9322150004	Propeller fan	◆
18	9603601003	DC fan motor	◆
19	9322553027	Motor bracket assy	◆
20	9323834194	Heat exchanger unit	◆
a	—	Hair pin cushion	—

■ Compressor

TECHNICAL DATA
AND PARTS LIST

TECHNICAL DATA
AND PARTS LIST


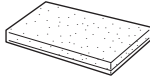
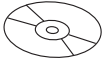


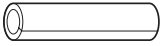
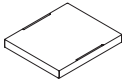
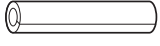




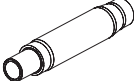


Item no.	Part no.	Part name	Service part
50	9810523006	Compressor	◆
51	9322783028	4-way valve assy	◆
52	9970110160	Solenoid	◆
53	9970173028	Expansion valve coil	◆
54	9322463029	Pulse motor valve assy	◆
55	9322474001	2-way valve assy	◆
56	9387831016	3-way valve assy	◆
57	9322501004	S-insulator H	◆
58	9322847003	S-insulator F	◆
59	9322500007	S-insulator B	◆
<i>a</i>	—	Valve bracket	—
<i>b</i>	—	Muffler	—

4. Accessories



4-1. Indoor unit

■ **Models: AUXG09KVLA, AUXG12KVLA, AUXG14KVLA, AUXG18KVLA, and AUXG22KVLA**

Part name	Exterior	Q'ty	Part name	Exterior	Q'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			

4-2. Outdoor unit

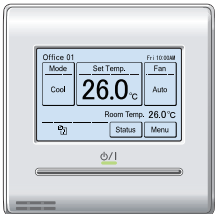
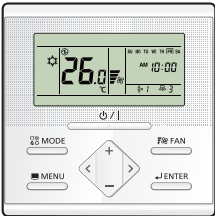
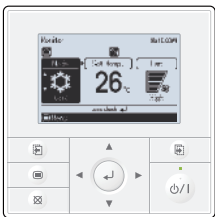
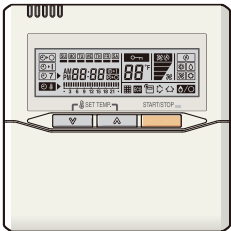
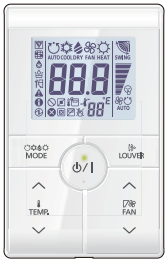

■ **Models: AOHG09KATA and AOHG12KATA, AOHG14KATA and AOHG18KATA, and AOHG22KATA**

Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Installation manual		1	Drain pipe		1

5. Optional parts



5-1. Indoor unit

■ Controllers

Exterior	Part name	Model name	Summary
	Wired remote controller	UTY-RNRGZ*	Easy finger touch operation with LCD panel. Backlit LCD enables easy operation in a dark room. Wire type: Non-polar 2-wire
	Wired remote controller	UTY-RLRG	High visibility and easy operation. Room temperature can be accurately controlled using the built-in thermo sensor. Wire type: Non-polar 2-wire
	Wired remote controller	UTY-RVNGM	Large and full-dot liquid crystal screen, wide and large keys easy to press, user-intuitive arrow key. Wire type: Polar 3-wire
	Wired remote controller	UTY-RNNGM	Room temperature can be controlled by detecting the temperature accurately with built-in thermo sensor. Wire type: Polar 3-wire
	Simple remote controller	UTY-RSRG	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode. Wire type: Non-polar 2-wire
	Simple remote controller	UTY-RHRG	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, and temperature setting. Wire type: Non-polar 2-wire

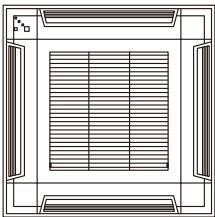
TECHNICAL DATA
AND PARTS LIST

TECHNICAL DATA
AND PARTS LIST

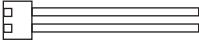

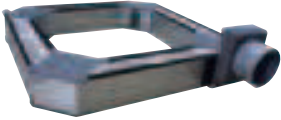
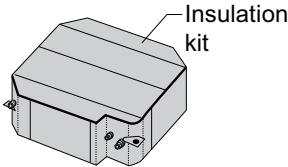




Exterior	Part name	Model name	Summary
	Simple remote controller	UTY-RSNGM	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode. Wire type: Polar 3-wire
	Wireless remote controller	UTY-LNTG	Unit control is performed by wireless remote controller.

NOTE: Available functions may differ by the remote controller. For details, refer to the operation manual.



Exterior	Part name	Model name	Summary
	Cassette grille	UTG-UFGF-W	This cassette grille can be installed appropriately on the grid type ceiling common in the office.

Others

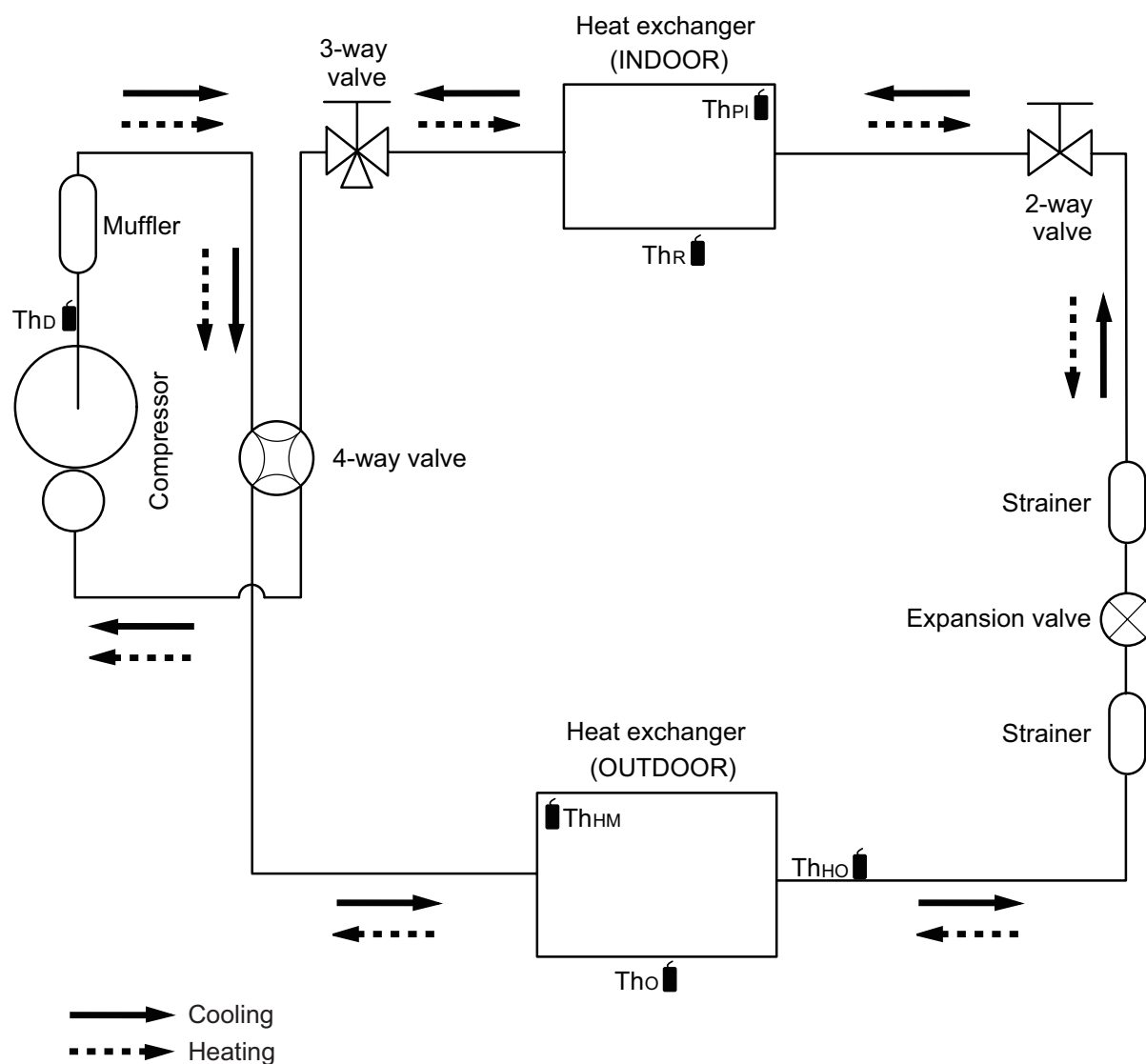
Exterior	Part name	Model name	Summary
	External connect kit	UTY-XWZXZG	Use to connect with various peripheral devices and air conditioner PCB. For control output port.
	Air outlet shutter plate	UTR-YDZB	Installed at the air outlet when 3-directions mode is performed.
	Fresh-air intake kit	UTZ-VXAA	By attaching Fresh-air intake kit to the indoor unit, it can be taken in fresh air of up to 10% of "high" air volume of the indoor unit.
	Insulation for high humidity	UTZ-KXGC	Install when the under-roof condition is expected to be the humidity of over 80% and the temperature of over 30 °C.
	Wireless LAN adapter	UTY-TFSXZ1	Remotely manage an air conditioning system using mobile devices such as smartphones and tablets. For connection indoor unit with UART interface.
	Modbus converter	UTY-VMSX	For connection between indoor unit with UART interface and a Modbus open network.
	KNX converter	UTY-VKSX	For connection between indoor unit with UART interface and a KNX open network.
	External switch controller	UTY-TERX	Air conditioner switching can be controlled by connecting other external sensor switches.

NOTE: Combined use of following optional parts and Wireless LAN adapter (UTY-TFSXZ1) is not allowed.

- Modbus converter
- KNX converter

6. Refrigerant system diagrams

6-1. Models: AOHG09KATA and AOHG12KATA



Th_D : Thermistor (Discharge temperature)

Th_O : Thermistor (Outdoor temperature)

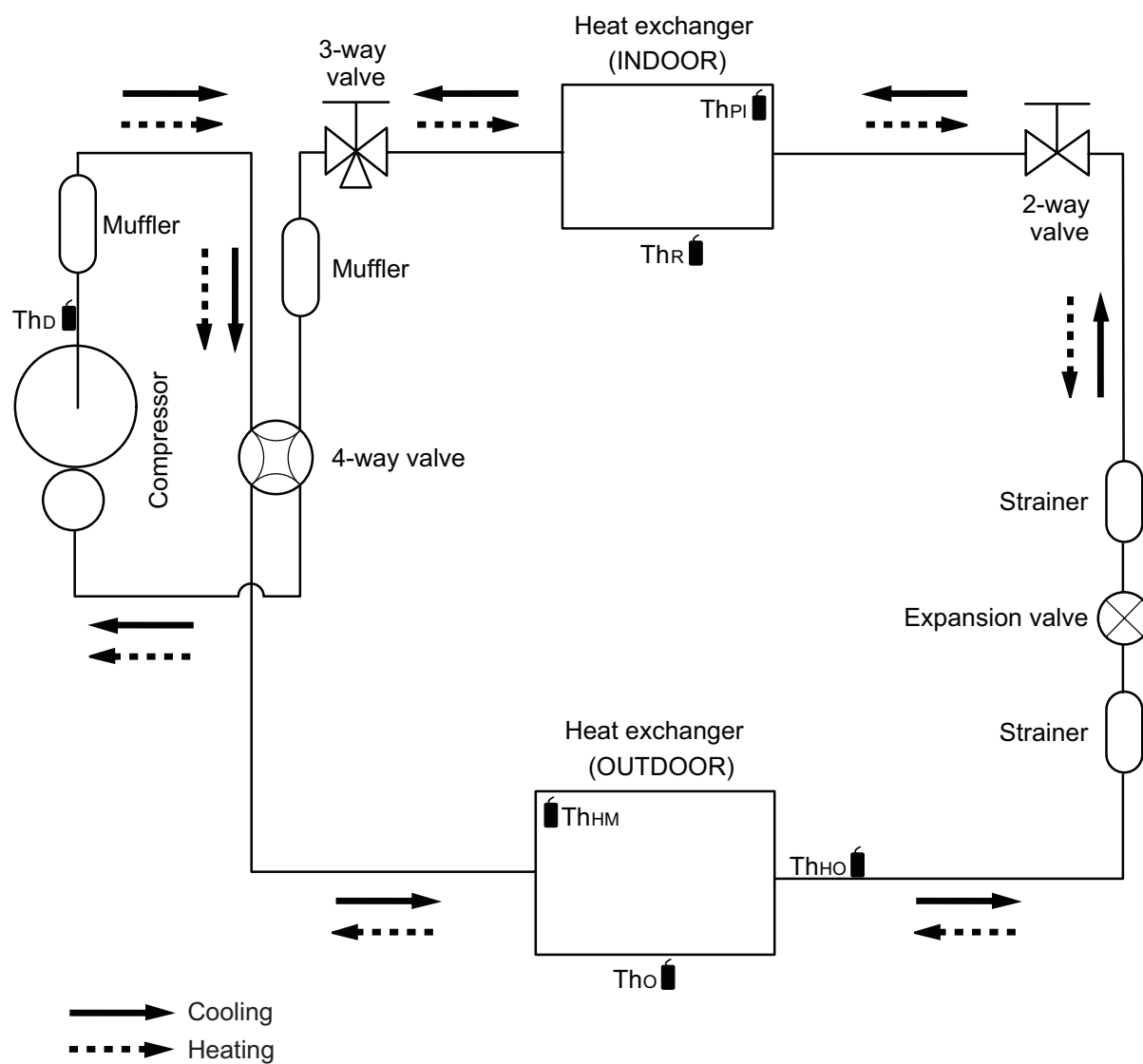
Th_{HO} : Thermistor (Heat exchanger out temperature)

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

Th_R : Thermistor (Room temperature)

Th_{PI} : Thermistor (Pipe temperature)

6-2. Models: AOHG14KATA and AOHG18KATA



ThD : Thermistor (Discharge temperature)

Tho : Thermistor (Outdoor temperature)

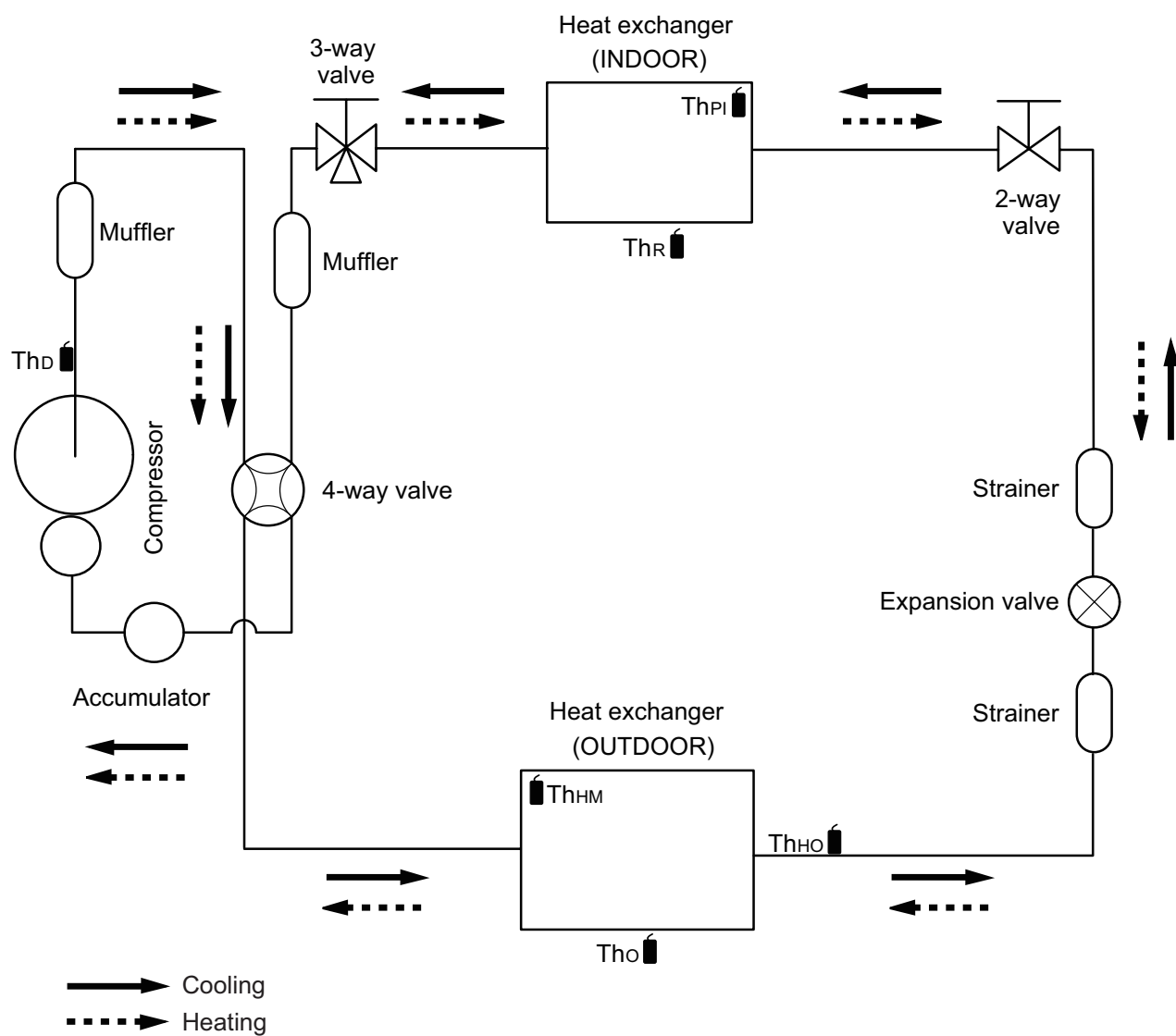
ThHO : Thermistor (Heat exchanger out temperature)

ThHM : Thermistor (Heat exchanger middle temperature)

ThR : Thermistor (Room temperature)

ThPI : Thermistor (Pipe temperature)

6-3. Model: AOHG22KATA



Th_D : Thermistor (Discharge temperature)

Th_O : Thermistor (Outdoor temperature)

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

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

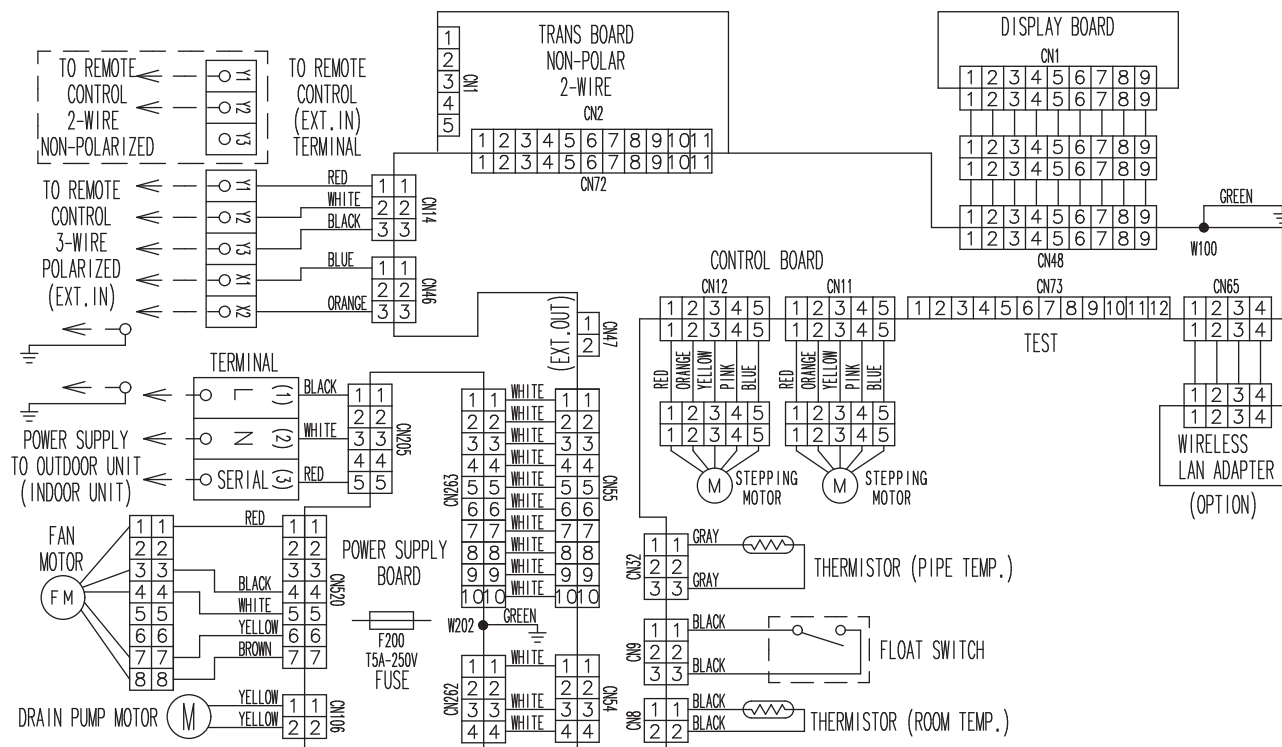
Th_R : Thermistor (Room temperature)

Th_{PI} : Thermistor (Pipe temperature)

7. Wiring diagrams

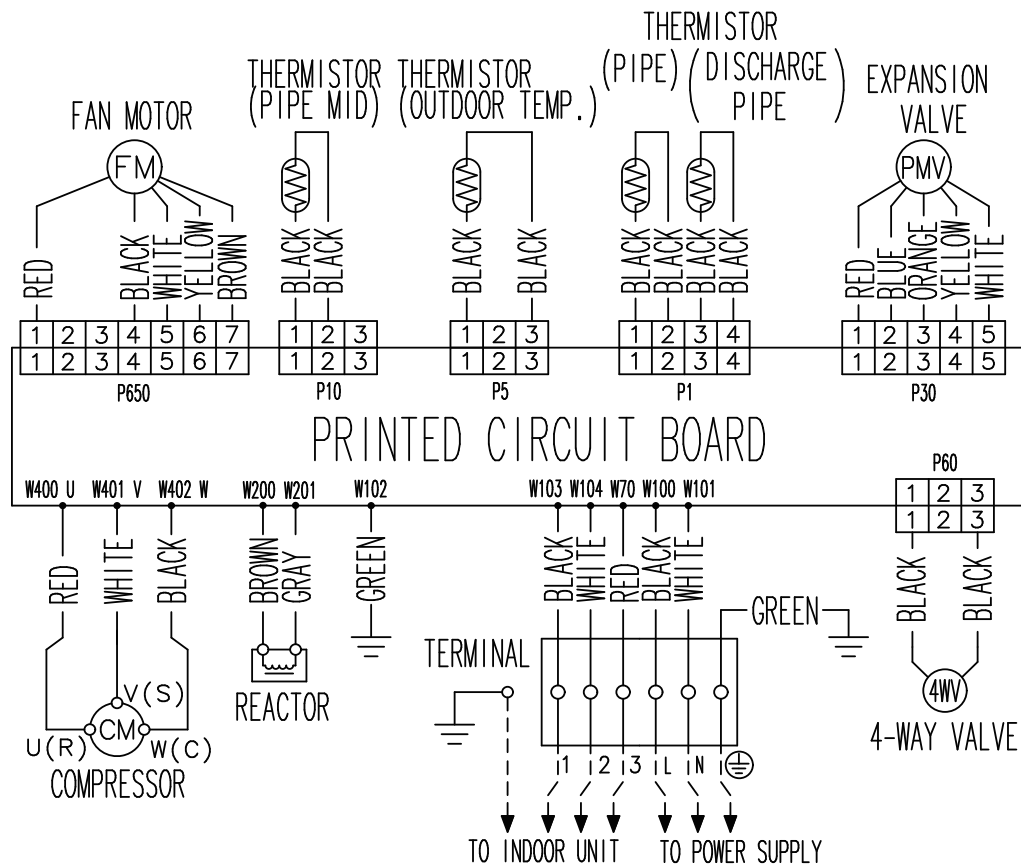
7-1. Indoor unit

Models: AUXG09KVLA, AUXG12KVLA, AUXG14KVLA, AUXG18KVLA, and AUXG22KVLA



7-2. Outdoor unit

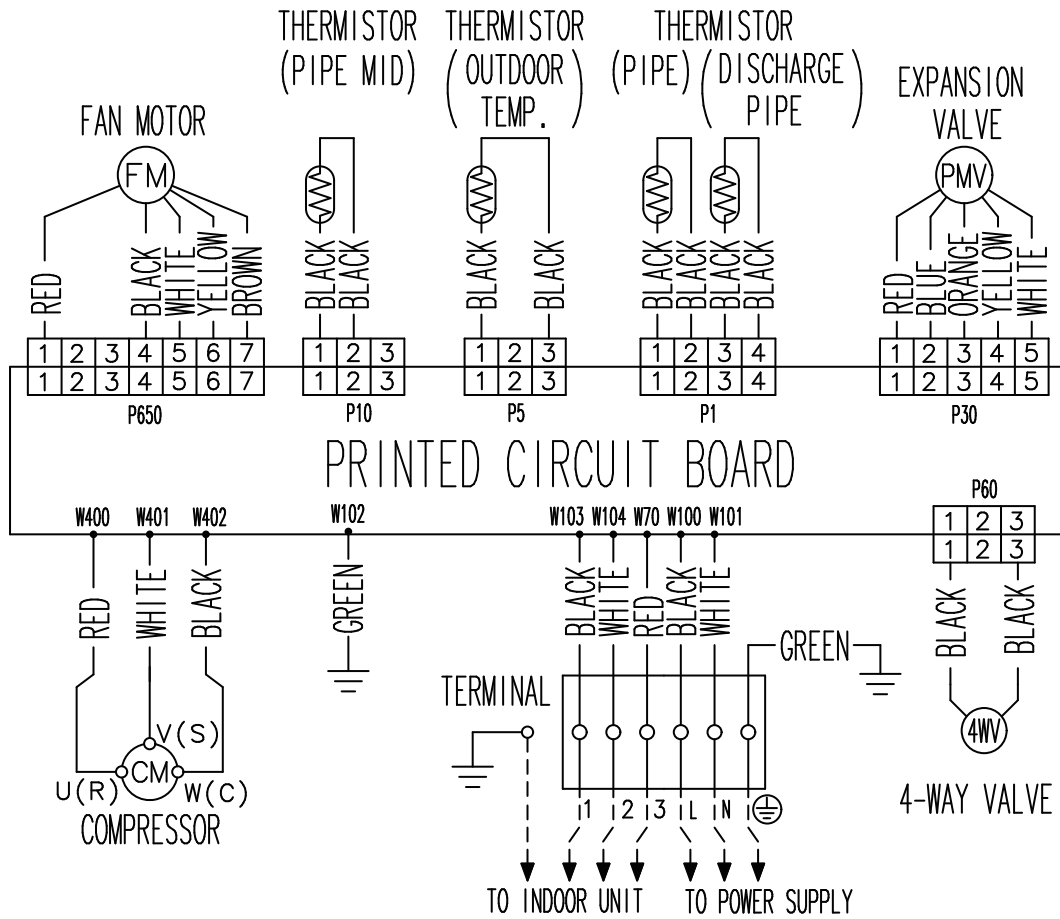
■ Models: AOHG09KATA, AOHG12KATA, AOHG14KATA, and AOHG18KATA



Model: AOHG22KATA

TECHNICAL DATA
AND PARTS LIST

TECHNICAL DATA
AND PARTS LIST

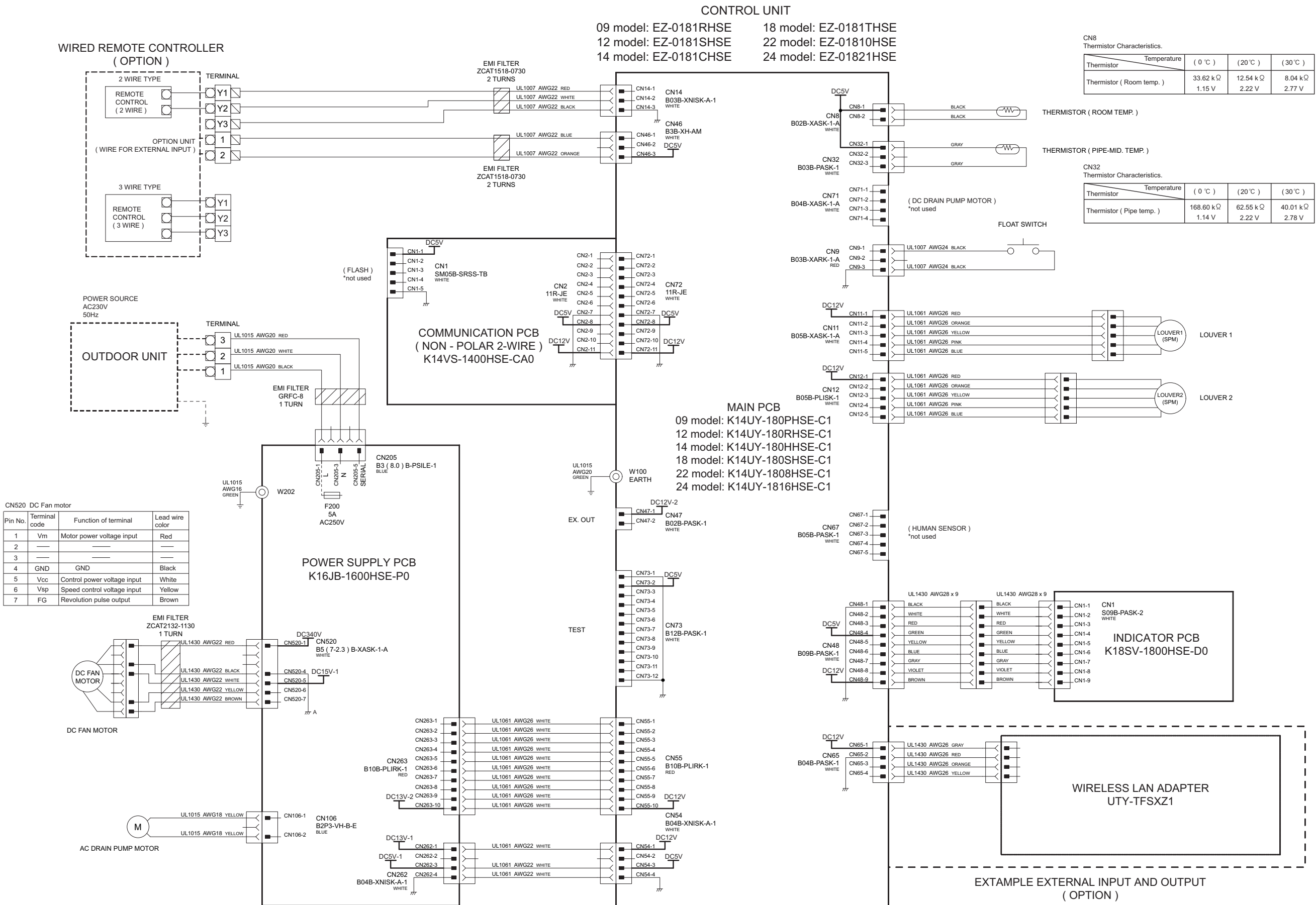


8. PC board diagrams

8-1. Models: AUXG09KVLA, AUXG12KVLA, AUXG14KVLA, AUXG18KVLA, and AUXG22KVLA

TECHNICAL DATA
AND PARTS LIST

TECHNICAL DATA
AND PARTS LIST

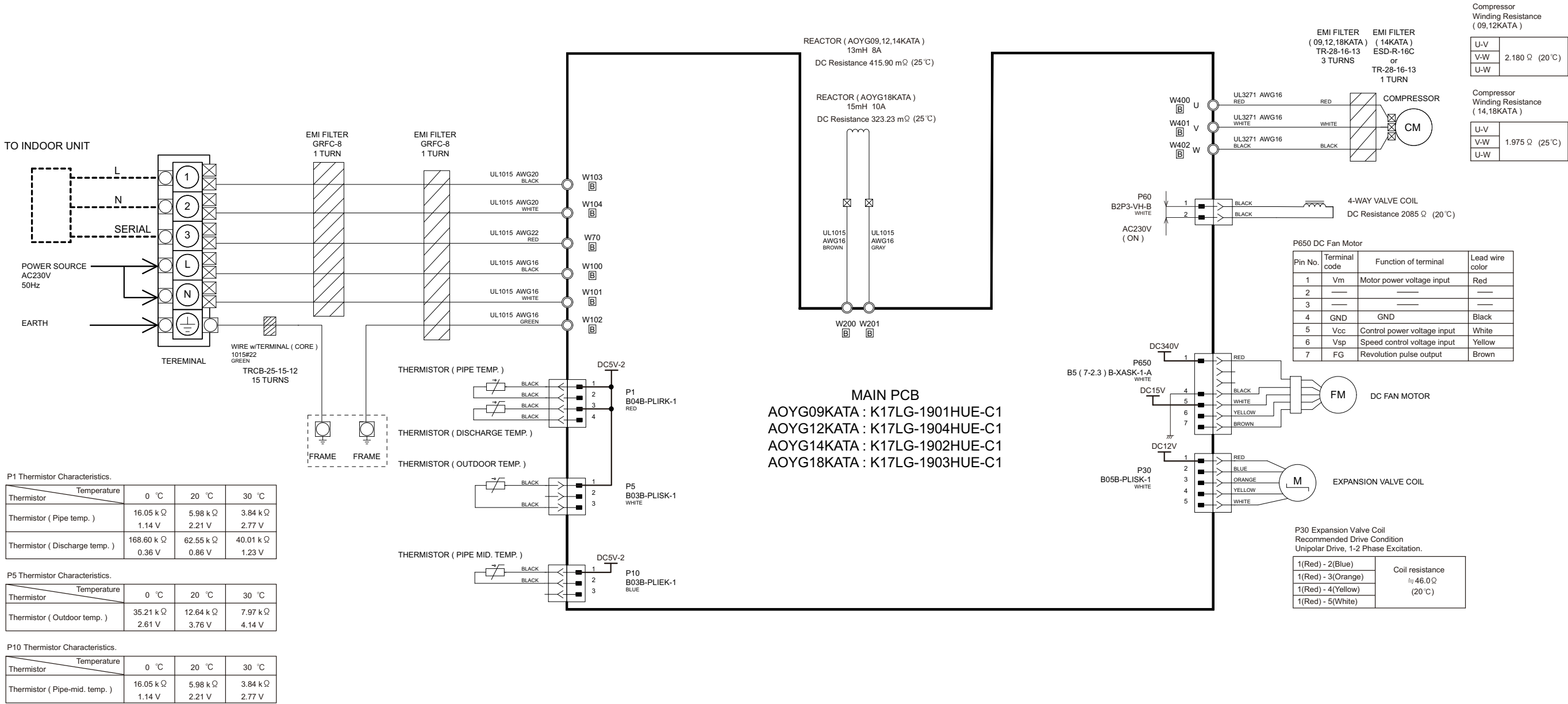


8-2. Models: AOHG09KATA, AOHG12KATA, AOHG14KATA, and AOHG18KATA

TECHNICAL DATA
AND PARTS LIST

TECHNICAL DATA
AND PARTS LIST

INVERTER ASSEMBLY
AOYG09KATA : EZ-019AHUE
AOYG12KATA : EZ-019BHUE
AOYG14KATA : EZ-019CHUE
AOYG18KATA : EZ-019DHUE



8-3. Model: AOHG22KATA

TECHNICAL DATA
AND PARTS LIST

TECHNICAL DATA
AND PARTS LIST

