

AIR CONDITIONER

Cassette type

SERVICE MANUAL

INDOOR



AUXG24KRLB
AUXG30KRLB
AUXG36KRLB
AUXG45KRLB
AUXG54KRLB

OUTDOOR



AOHG24KATA



AOHG30KATA
AOHG36KATA



AOHG45KATA
AOHG54KATA

FUJITSU GENERAL LIMITED

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

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1. GENERAL INFORMATION

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1. GENERAL INFORMATION

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1. Specifications

1-1. Indoor unit

Type				Cassette			
				Inverter heat pump			
Model name				AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	
Power supply				230 V ~ 50 Hz			
Power supply intake				Outdoor unit			
Available voltage range				198—264 V			
Capacity	Cooling	Rated	kW	6.8	8.5	9.5	
			Btu/h	23,200	29,000	32,400	
		Min.—Max.	kW	0.9—7.4	2.8—9.6	2.8—10.6	
		Btu/h	3,100—25,200	9,600—32,700	9,600—36,100		
	Heating	Rated	kW	7.5	10.0	10.8	
			Btu/h	25,600	34,100	36,850	
Min.—Max.		kW	0.9—8.6	2.7—10.8	2.7—12.5		
		Btu/h	3,100—29,300	9,200—36,800	9,200—42,600		
Input power	Cooling	Rated	kW	2.12	2.56	3.06	
		Max.		2.60	3.53	4.19	
	Heating	Rated		1.97	2.64	2.58	
		Max.		2.58	4.17	4.48	
Current	Cooling	Rated	A	9.3	11.3	13.6	
	Heating			8.7	11.7	11.4	
Power factor	Cooling		%	98.6	98.2	98.0	
	Heating			98.9	98.2	98.0	
EER	Cooling		kW/kW	3.21	3.32	3.10	
COP	Heating			3.81	3.79	4.19	
Moisture removal			L/h (pints/h)	2.7 (4.8)	2.5 (4.4)	3.3 (5.8)	
Maximum operating current *1		Cooling		A	12.6	22.5	
		Heating			12.6	22.5	
Fan	Airflow rate	Cooling	HIGH	m³/h	1,150	1,600	1,870
			MED		1,050	1,400	1,560
			LOW		980	1,270	1,410
			QUIET		870	1,150	1,160
		Heating	HIGH		1,150	1,600	1,870
			MED		1,050	1,400	1,560
			LOW		980	1,270	1,410
			QUIET		870	1,150	1,160
	Type × Q'ty			Turbo fan × 1			
	Motor output			W			
Sound pressure level *2	Cooling	HIGH	dB (A)	35	40	44	
		MED		33	38	41	
		LOW		32	36	38	
		QUIET		29	33	34	
	Heating	HIGH		35	40	44	
		MED		33	38	41	
		LOW		32	36	38	
		QUIET		29	33	34	
Heat exchanger type	Dimensions (H × W × D)		mm	Main1: 210 × 2,127 × 13.3 Main2: 210 × 2,061 × 13.3	Main1: 252 × 2,127 × 13.3 Main2: 252 × 2,061 × 13.3	Main1: 252 × 2,131 × 13.3 Main2: 252 × 2,064 × 13.3 Main3: 252 × 1,999 × 13.3	
	Fin pitch			Main1: 1.2 Main2: 1.2		Main1: 1.3 Main2: 1.3 Main3: 1.3	
	Rows × Stages			Main1: 1 × 10 Main2: 1 × 10	Main1: 1 × 12 Main2: 1 × 12	Main1: 1 × 12 Main2: 1 × 12 Main3: 1 × 12	
	Pipe type			Copper tube			
Fin type		Aluminum					
Dimensions (H × W × D)	Net		mm	246 × 840 × 840	288 × 840 × 840		
	Gross			298 × 960 × 950	340 × 960 × 950		
Weight	Net		kg	24	26	29	
	Gross			29	32	34	
Connection pipe	Size	Liquid	mm (in)	Ø 6.35 (Ø 1/4)	Ø 9.52 (Ø 3/8)		
		Gas		Ø 12.70 (Ø 1/2)	Ø 15.88 (Ø 5/8)		
Method		Flare					
Material		PVC					
Size		mm	Ø 25 (I.D.), Ø 32 (O.D.)				
Operation range	Cooling	°C	18 to 32				
		%RH	80 or less				
Heating		°C	16 to 30				
Cassette grille (Option)	Model name			UTG-UKYC-W			
	Material			Polystyrene			
	Color			White			
				Approximate color of Munsell N 9.25/			
	Dimensions (H × W × D)	Net	mm	53 × 950 × 950			
		Gross		110 × 1,000 × 1,010			
Weight	Net	kg	6.0				
	Gross		10.0				
Remote control (Option)				Wired remote controller, Wireless remote controller, Mobile app*3 (FGLair™)			

Type	Cassette		
	Inverter heat pump		
Model name	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB
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. (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: <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. *3: Available on Google Play™ store or on App Store®. Optional WLAN adapter is also required. For details, refer to the setting manual. This data is based on EN 14511 standard. 			

Specifications for ErP Lot10									
Model name				AUXG24KRLB		AUXG30KRLB		AUXG36KRLB	
Energy efficiency class	Cooling			A++					
	Heating (Average)			A+					
Pdesign	Cooling		kW	6.8 (35°C)	8.5 (35°C)		9.5 (35°C)		
	Heating (Average)			5.4 (-10°C)	8.0 (-10°C)		8.7 (-10°C)		
SEER	Cooling		kWh/kWh	6.10					
SCOP	Heating (Average)			4.00					
Annual energy consumption	QCE			390	488		545		
	QHE (Average)			1,887	2,794		3,044		
Sound power level	Cooling		HIGH	dB (A)	49	54		58	
	Heating				49	54		58	

Type				Cassette	
				Inverter heat pump	
Model name				AUXG45KRLB	AUXG54KRLB
Power supply				230 V ~ 50 Hz	
Power supply intake				Outdoor unit	
Available voltage range				198—264 V	
Capacity	Cooling	Rated	kW	12.1	13.4
			Btu/h	41,300	45,700
		Min.—Max.	kW	4.00—12.60	4.50—13.80
			Btu/h	13,600—43,000	15,400—47,100
	Heating	Rated	kW	13.5	15.5
			Btu/h	46,000	52,900
		Min.—Max.	kW	4.20—15.00	4.70—16.00
			Btu/h	14,300—51,200	16,000—54,600
Input power	Cooling	Rated	kW	4.32	4.87
		Max.		5.00	5.23
	Heating	Rated		3.77	4.86
		Max.		4.69	4.77
Current	Cooling	Rated	A	18.8	21.4
	Heating			16.6	21.3
Power factor	Cooling		%	99.7	99.0
	Heating			99.0	
EER	Cooling		kW/kW	2.80	2.75
COP	Heating			3.58	3.19
Moisture removal			L/h (pints/h)	4.5 (7.9)	5.0 (8.8)
Maximum operating current *1		Cooling	A	28.1	
		Heating		28.1	
Fan	Airflow rate	Cooling	HIGH	2,000	2,100
			MED	1,650	1,780
			LOW	1,460	1,600
			QUIET	1,300	1,320
		Heating	HIGH	2,000	2,100
			MED	1,650	1,780
			LOW	1,460	1,600
			QUIET	1,300	1,320
	Type × Q'ty			Turbo fan × 1	
	Motor output			W	81
Sound pressure level *2	Cooling	HIGH	dB (A)	46	47
		MED		42	43
		LOW		39	40
		QUIET		35	36
	Heating	HIGH		46	47
		MED		42	43
		LOW		39	40
		QUIET		35	36
Heat exchanger type	Dimensions (H × W × D)		mm	Main1: 252 × 2,131 × 13.3 Main2: 252 × 2,064 × 13.3 Main3: 252 × 1,999 × 13.3	
	Fin pitch			Main1: 1.3 Main2: 1.3 Main3: 1.3	
	Rows × Stages			Main1: 1 × 12 Main2: 1 × 12 Main3: 1 × 12	
	Pipe type			Copper tube	
	Fin type			Aluminum	
Dimensions (H × W × D)	Net		mm	288 × 840 × 840	
	Gross			340 × 960 × 950	
Weight	Net		kg	29	
	Gross			34	
Connection pipe	Size	Liquid	mm (in)	Ø 9.52 (Ø 3/8)	
		Gas		Ø 15.88 (Ø 5/8)	
	Method				Flare
Drain hose	Material			PVC	
	Size		mm	Ø 25 (I.D.), Ø 32 (O.D.)	
Operation range	Cooling		°C	18 to 32	
			%RH	80 or less	
	Heating		°C	16 to 30	
Cassette grille (Option)	Model name			UTG-UKYC-W	
	Material			Polystyrene	
	Color			White Approximate color of Munsell N 9.25/	
	Dimensions (H × W × D)	Net	mm	53 × 950 × 950	
		Gross		110 × 1,000 × 1,010	
	Weight	Net	kg	6.0	
		Gross		10.0	
Remote control (Option)				Wired remote controller, Wireless remote controller, Mobile app*3 (FGLair™)	
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. (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:<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.*3: Available on Google Play™ store or on App Store®. Optional WLAN adapter is also required. For details, refer to the setting manual.This data is based on EN 14511 standard.					

1-2. Outdoor unit

Type				Inverter heat pump
Model name				AOHG24KATA
Power supply				230 V ~ 50 Hz
Power supply intake				Outdoor unit
Available voltage range				198—264 V
Starting current			A	9.7
Fan	Airflow rate	Cooling	m³/h	2,885
		Heating		2,350
	Type × Q'ty		Propeller × 1	
	Motor output		W	49
Sound pressure level *1		Cooling	dB (A)	54
		Heating		55
Sound power level		Cooling	dB (A)	66
		Heating		67
Heat exchanger type		Dimensions (H × W × D)	mm	Main1: 588 × 881 × 18.19 Main2: 588 × 851 × 18.19
		Fin pitch		Main1: 1.3 Main2: 1.3
		Rows × Stages		Main1: 1 × 28 Main2: 1 × 28
		Pipe type		Copper
		Fin	Type (Material)	Aluminum
			Surface treatment	PC fin
Compressor	Type × Q'ty	DC Twin rotary × 1		
	Motor output		W	1,060
Refrigerant		Type (Global warming potential)		R32 (675)
		Factory charge		g
Refrigerant oil		Type	RmM68AF	
		Amount	cm³	400
Enclosure		Material		Steel sheet
		Color		Beige Approximate color of Munsell 10YR 7.5/1.0
Dimensions (H × W × D)	Net	mm	632 × 799 × 290	
	Gross		692 × 940 × 375	
Weight	Net	kg	38	
	Gross		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			25
	Max. height difference			20
Operation range		Cooling	°C	-10 to 46
		Heating		-15 to 24
Drain hose		Material		PP
		Size	mm	Ø13.0 (I. D.), Ø16.0 to Ø16.8 (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.
- This data is based on EN 14511 standard.

Type				Inverter heat pump	
Model name				AOHG30KATA	AOHG36KATA
Power supply				230 V ~ 50 Hz	
Power supply intake				Outdoor unit	
Available voltage range				198—264 V	
Starting current			A	12.3	13.8
Fan	Airflow rate	Cooling	m³/h	3,750	
		Heating		3,750	
	Type × Q'ty				Propeller × 1
Motor output		W		100	
Sound pressure level *1		Cooling	dB (A)	53	55
		Heating		55	
Sound power level		Cooling	dB (A)	68	70
		Heating		69	70
Heat exchanger type		Dimensions (H × W × D)	mm	Main1: 756 × 905 × 18.19 Main2: 756 × 905 × 18.19	
		Fin pitch		Main1: 1.45 Main2: 1.45	
		Rows × Stages		Main1: 1 × 36 Main2: 1 × 36	
		Pipe type		Copper	
		Fin	Type (Material)	Aluminum	
			Surface treatment	Blue fin	
Compressor	Type × Q'ty	DC Twin rotary × 1			
	Motor output	W	1,500		
Refrigerant		Type (Global warming potential)	R32 (675)		
		Factory charge	g	1,900	
Refrigerant oil		Type	FW68D		
		Amount	cm³	600	
Enclosure		Material	Steel sheet		
		Color	Beige Approximate color of Munsell 10YR 7.5/1.0		
Dimensions (H × W × D)	Net	mm	788 × 940 × 320		
	Gross		966 × 1,027 × 445		
Weight	Net	kg	52		
	Gross		61		
Connection pipe	Size	Liquid	mm (in)	Ø 9.52 (Ø 3/8)	
		Gas		Ø 15.88 (Ø 5/8)	
	Method	Flare			
	Pre-charge length	m	30		
	Max. length		30		
	Max. height difference		30		
Operation range		Cooling	°C	-10 to 46	
		Heating		-15 to 24	
Drain hose		Material	LDPE		
		Size	mm	Ø 13.0 (I. D.), Ø 16.0 to Ø 16.7 (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. (Between outdoor unit and indoor unit.)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.This data is based on EN 14511 standard.					

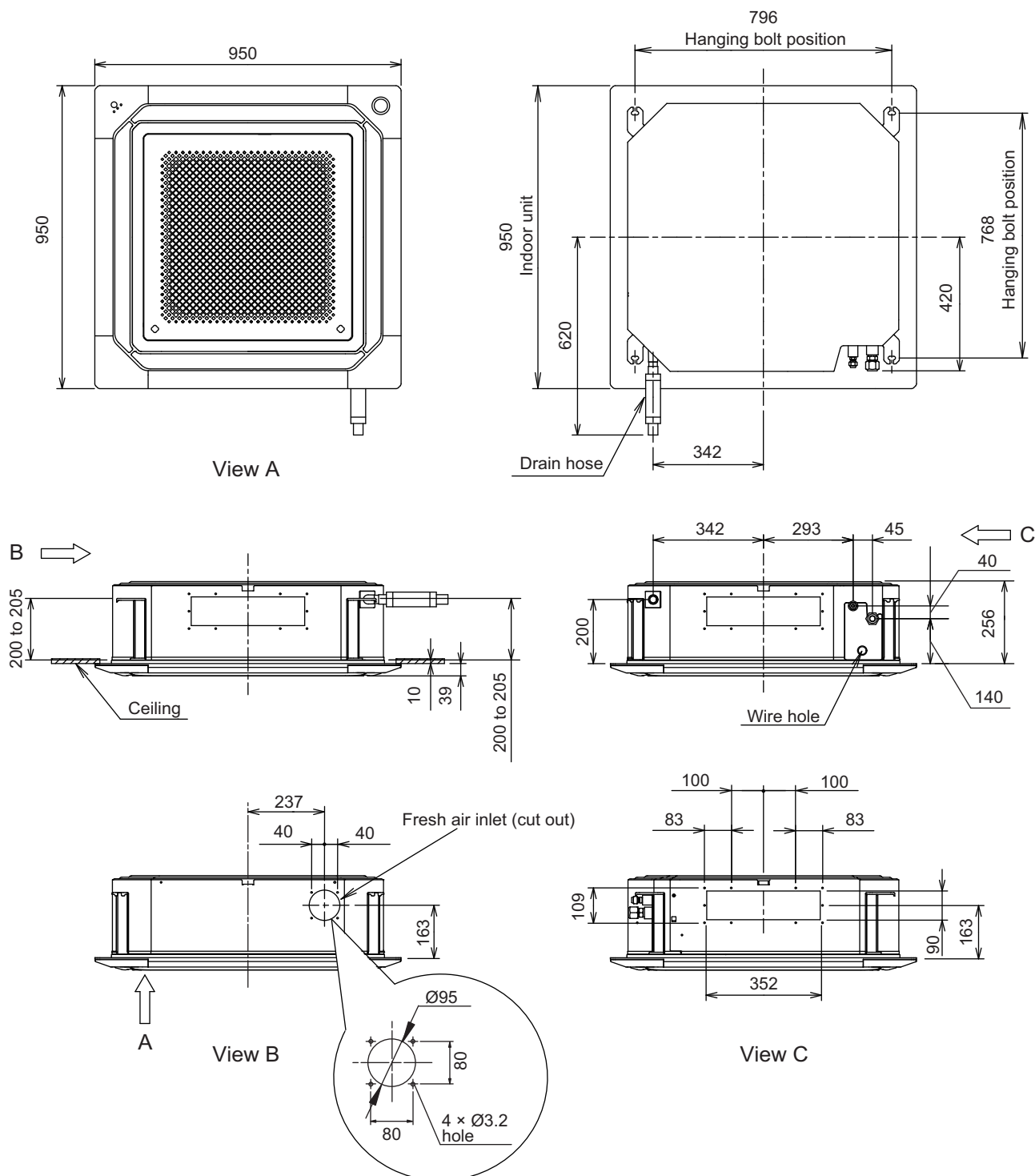
Type				Inverter heat pump	
Model name				AOHG45KATA	AOHG54KATA
Power supply				230 V ~ 50 Hz	
Power supply intake				Outdoor unit	
Available voltage range				198—264 V	
Starting current			A	21.3	21.4
Fan	Airflow rate	Cooling	m³/h	4,450	
		Heating		4,780	
	Type × Q'ty			Propeller × 1	
Motor output			W	120	
Sound pressure level *1		Cooling	dB (A)	58	58
		Heating		59	61
Sound power level		Cooling	dB (A)	72	74
		Heating		73	75
Heat exchanger type		Dimensions (H × W × D)	mm	Main1: 966 × 905 × 18.19 Main2: 966 × 905 × 18.19	
		Fin pitch		Main1: 1.45 Main2: 1.45	
		Rows × Stages		Main1: 1 × 46 Main2: 1 × 46	
		Pipe type		Copper	
		Fin	Type (Material)	Aluminum	
			Surface treatment	Blue fin	
Compressor	Type × Q'ty	DC Twin rotary × 1			
	Motor output	W	1,830	2,180	
Refrigerant		Type (Global warming potential)	R32 (675)		
		Factory charge	g	2,400	
Refrigerant oil		Type	RmM68AF		
		Amount	cm³	800	
Enclosure		Material	Steel sheet		
		Color	Beige Approximate color of Munsell 10YR 7.5/1.0		
Dimensions (H × W × D)	Net	mm	998 × 940 × 320		
	Gross		1,176 × 1,027 × 445		
Weight	Net	kg	61	63	
	Gross		71	72	
Connection pipe	Size	Liquid	mm (in)	Ø 9.52 (Ø 3/8)	
		Gas		Ø 15.88 (Ø 5/8)	
	Method	Flare			
	Pre-charge length	m	30		
	Max. length		30		
	Max. height difference		30		
Operation range		Cooling	°C	-10 to 46	
		Heating		-15 to 24	
Drain hose		Material	LDPE		
		Size	mm	Ø 13.0 (I. D.), Ø 16.0 to Ø 16.7 (O. D.)	
NOTES:					
<div><div>• Specifications are based on the following conditions:</div><div><div>– Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.</div><div>– Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB.</div><div>– Pipe length: 5.0 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)</div></div><div>• Protective function might work when using it outside the operation range.</div><div>• *1: Sound pressure level</div><div><div>– Measured values in manufacturer's anechoic chamber.</div><div>– Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.</div></div><div>• This data is based on EN 14511 standard.</div></div>					

2. Dimensions

2-1. Indoor unit

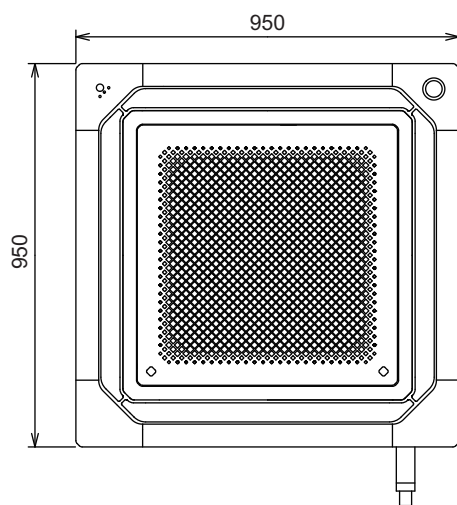
■ Model: AUXG24KRLB

Unit: mm

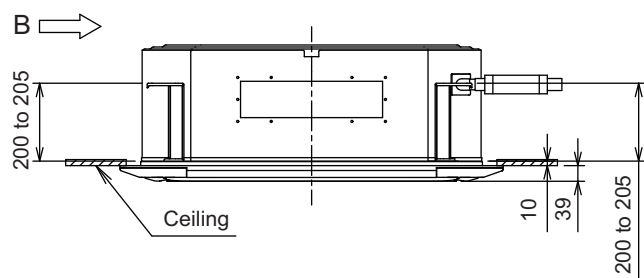
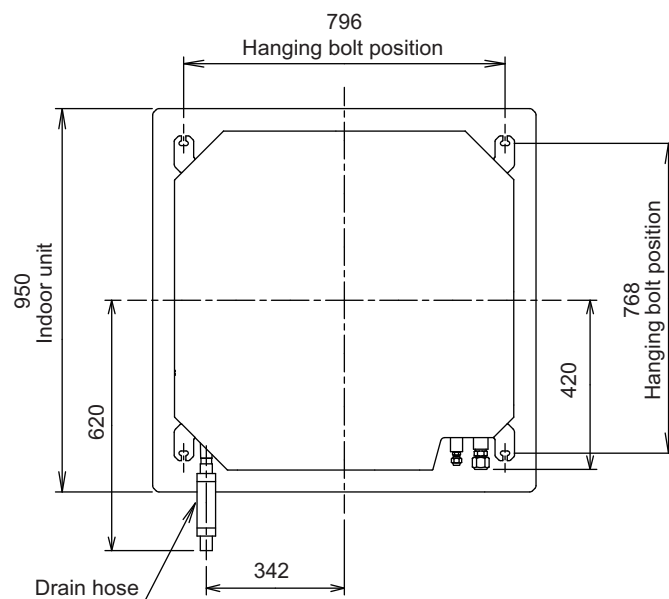


■ Models: AUXG30KRLB, AUXG36KRLB, AUXG45KRLB, and AUXG54KRLB

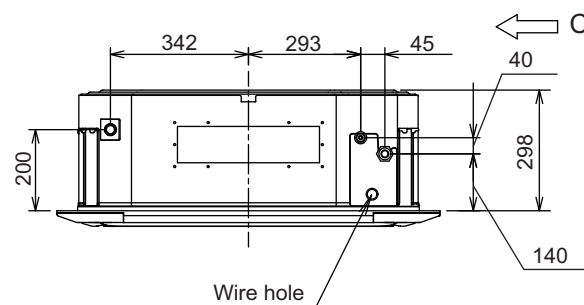
Unit: mm



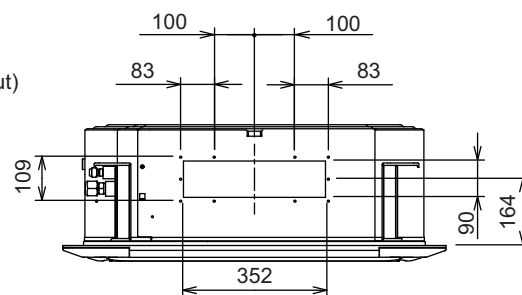
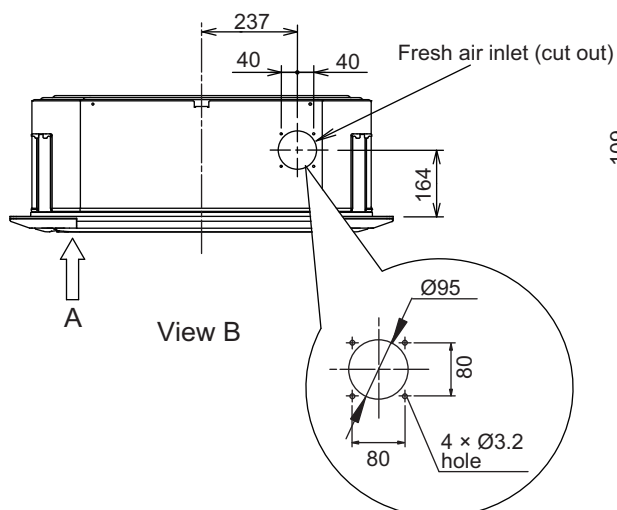
View A



View B

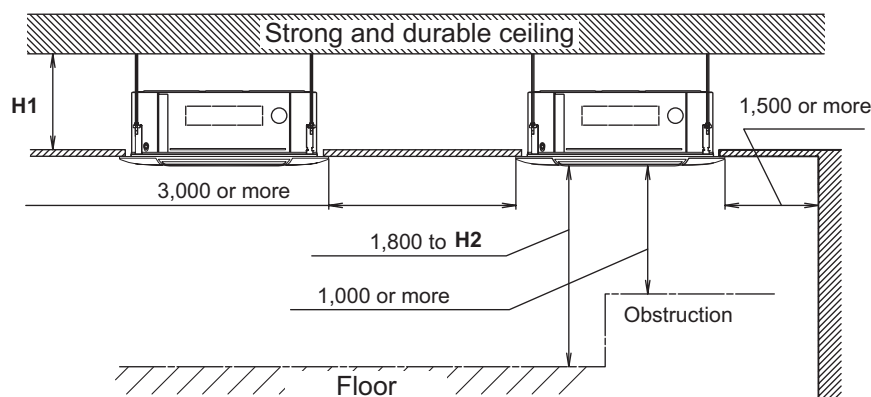


View C



■ Installation space requirement

Unit: mm



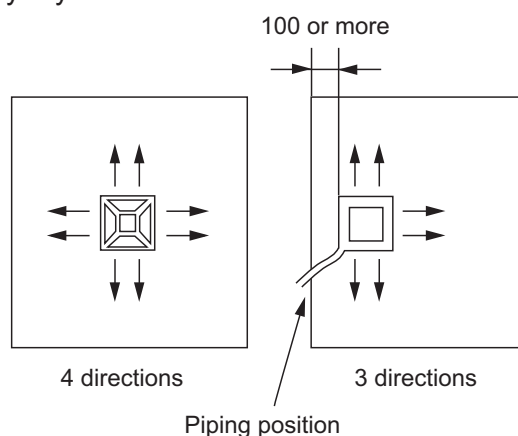
Model name	H1: Attic height
AUXG24KRLB	256 or more
AUXG30-54KRLB	298 or more

Be sure to make function setting with the remote controller according to the installed ceiling height.

H2: The maximum height from floor to ceiling		
Ceiling height	Model name	
	AUXG24KRLB	AUXG30-54KRLB
Standard	3,000	3,200
High ceiling	3,500	4,200

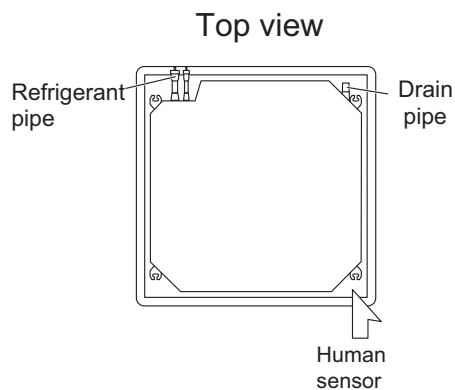
● Installation notices

- When installing the indoor unit, be careful about the maintenance space.
- To set "3-direction", Air outlet shutter plate (option) must be installed, and the "outlet-direction" need to be switched to "3-way" by the remote controller.

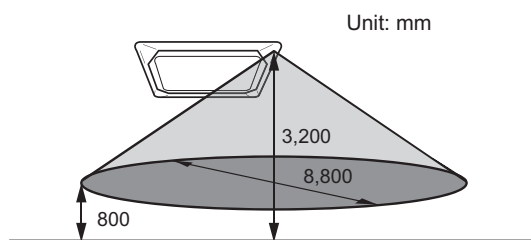


- In 3-way outlet mode, changing of ceiling height setting by function setting 20 is prohibited. (Ceiling height setting [function setting 20] is allowed to be changed only in 4-way outlet mode.)
- Use the Insulation kit for high humidity (option), when the condition under the roof is over 80% in humidity and over 30°C in temperature. Otherwise, there is a risk of condensation on the ceiling.

- Human sensor (Option)



Example of sensitivity range:



Equal sensitivity range of temperature	Ceiling height	3,200 mm
	Detecting position	800 mm from floor surface

NOTE: When the installation height gets higher, the temperature sensitivity decreases.

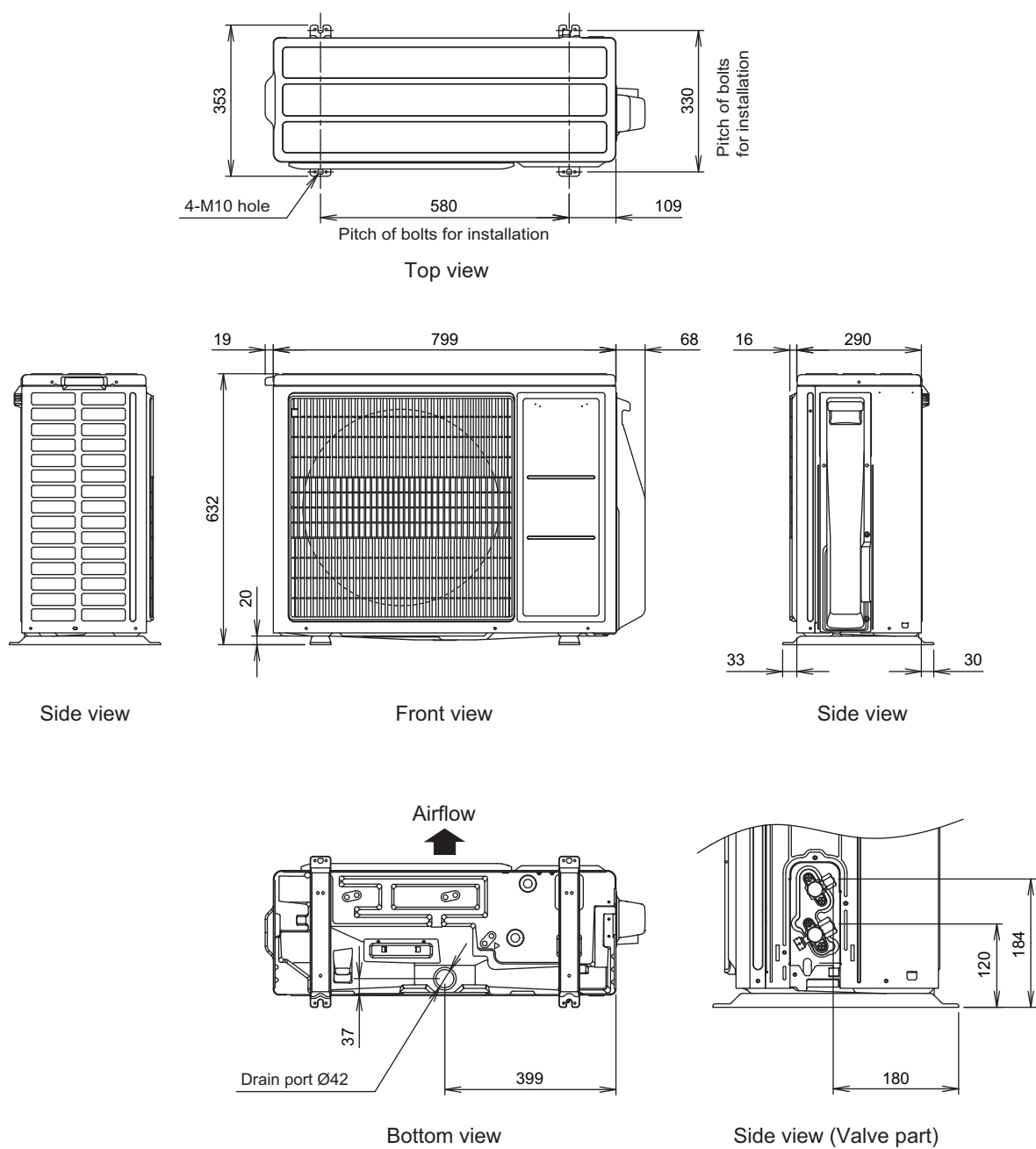
⚠ CAUTION

- Do not place large objects near the human sensor.
- Keep any other heating units outside the sensor's detection area.

2-2. Outdoor unit

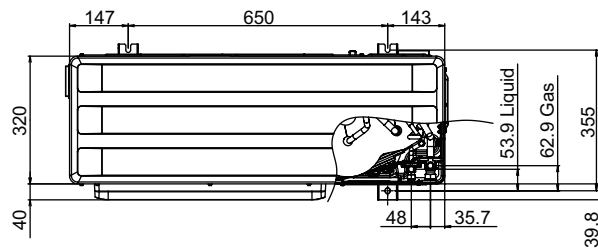
■ Model: AOHG24KATA

Unit: mm

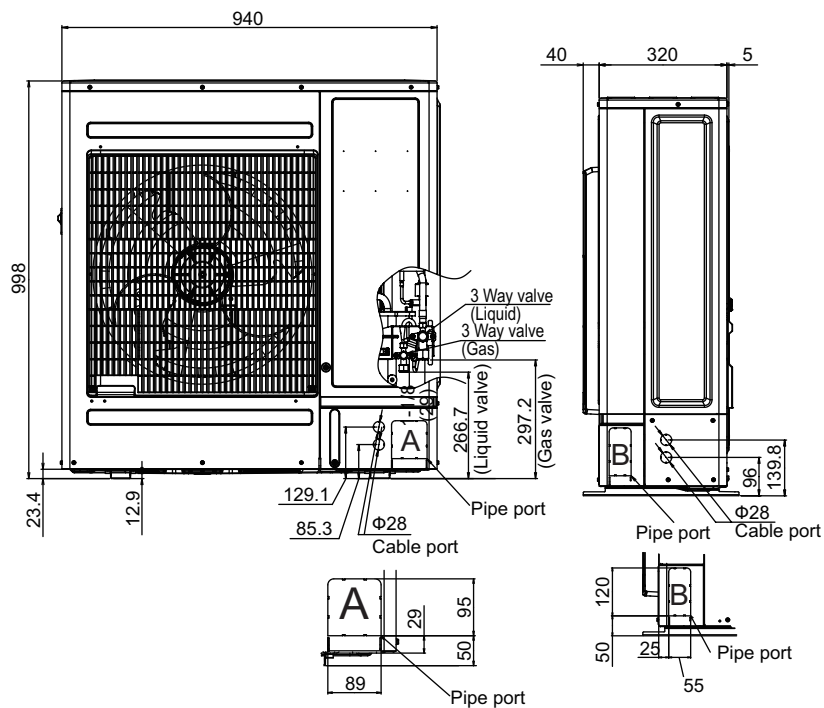


Model: AOHG45KATA

Unit: mm

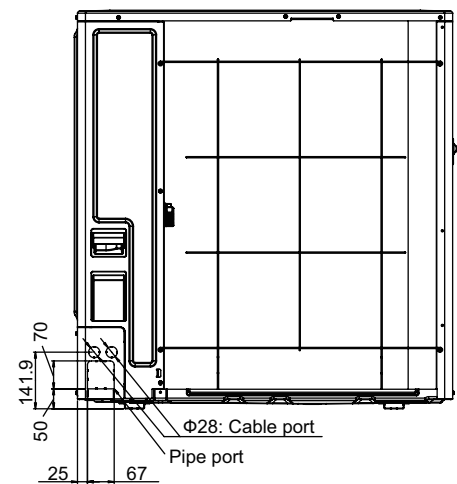


Top view

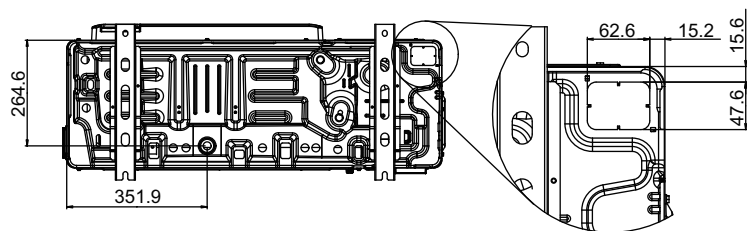


Front view

Side view



Rear view



Bottom view

Pipe & Cable port

2. TECHNICAL DATA AND PARTS LIST

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2. TECHNICAL DATA AND PARTS LIST

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1. Precautions

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

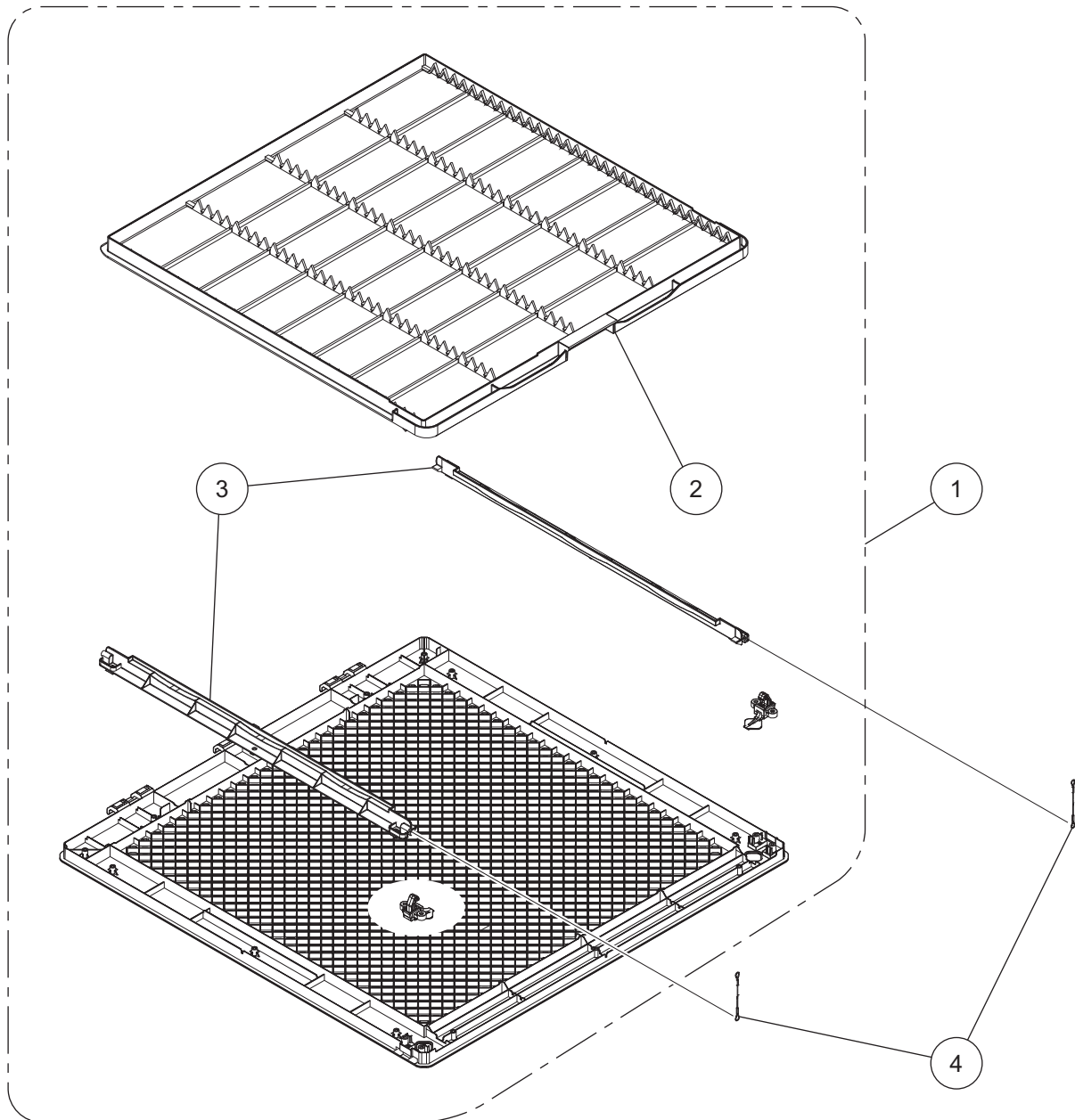
CAUTION

-
- 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.
 - Electric shock may occur. After turning off the power, always wait 5 minutes before touching electrical components.
 - Do not touch the fins of the heat exchanger. Touching the heat exchanger fins could result in damage to the fins or personal injury such as skin rupture.
 - Do not place any other electrical products or household belongings under the product.
 - Condensation dripping from the product might get them wet, and may cause damage or malfunction to the property.
 - 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. Cassette grille (optional part) parts list

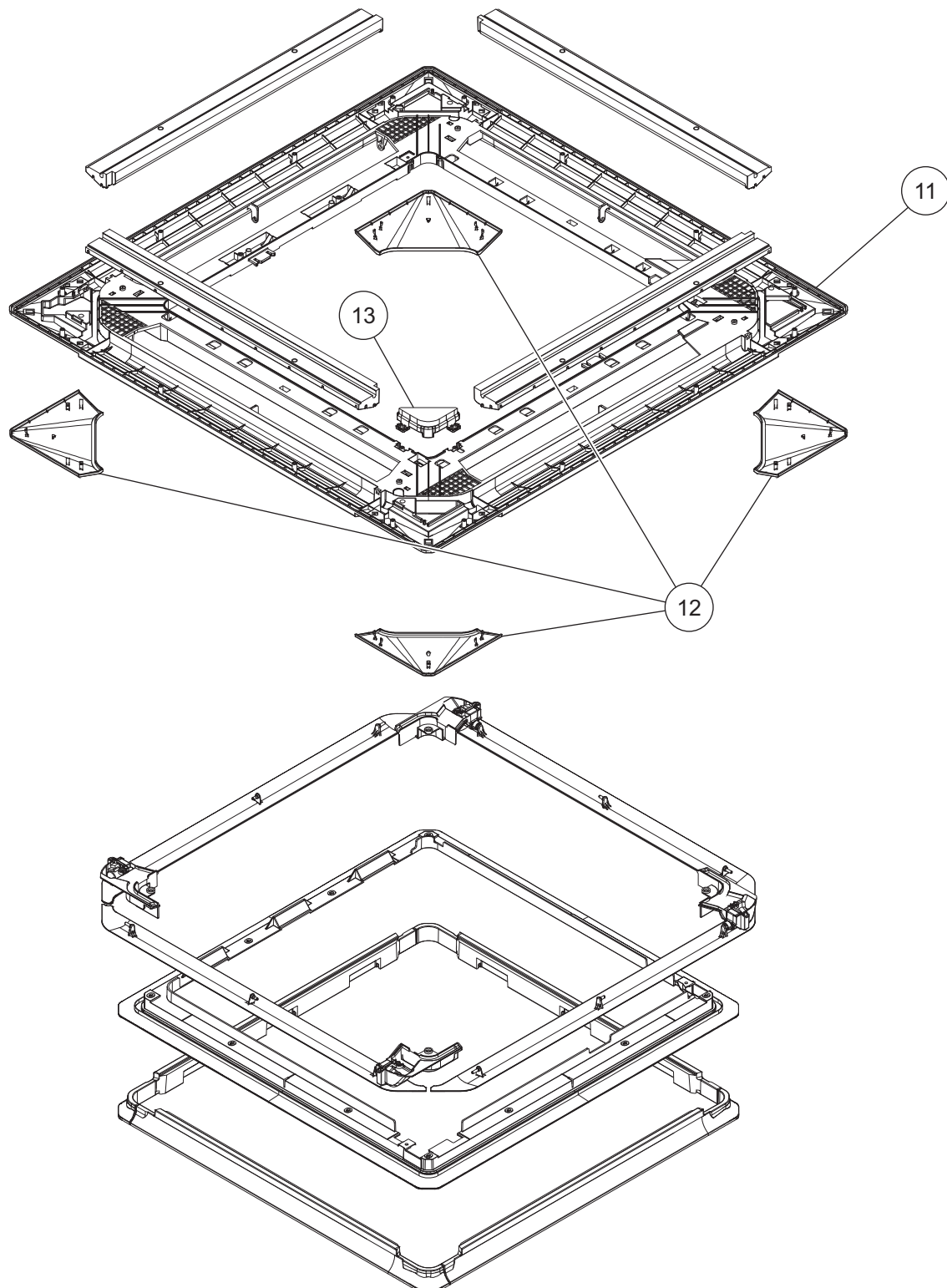
2-1. Model: UTG-UKGC-W

■ Intake grille



Ref No.	Description	Parts No.
1	Intake Grille Assy	9381691012
2	Long Life Filter	9378252028
3	Filter Guide	9378253018
4	Hook Wire	9378597020

■ Panels

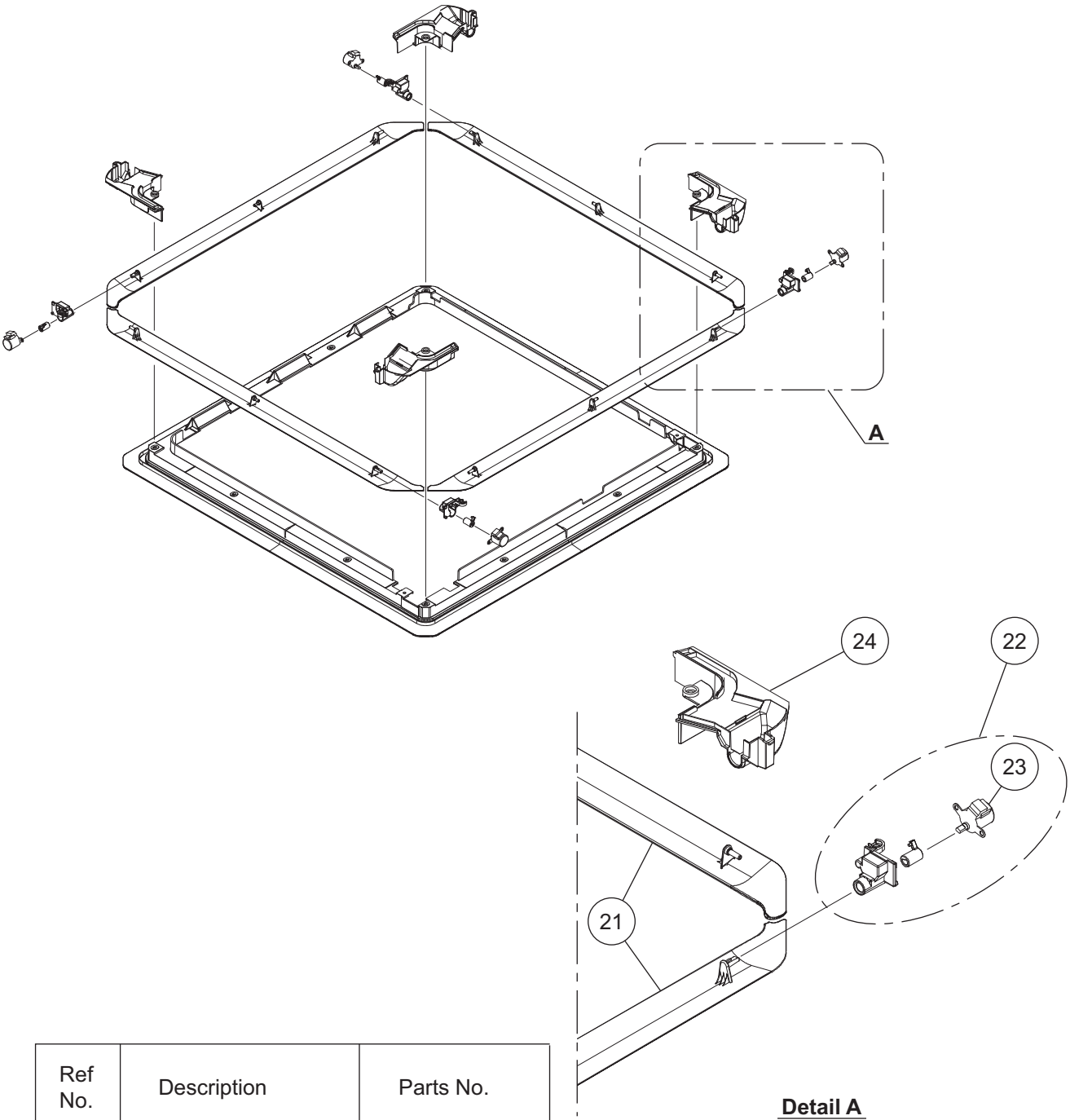


Ref No.	Description	Parts No.
11	Decoration Panel	9381352005
12	Corner Panel Assy	9381711000
13	Drain Cover Assy	9381713004

■ Louvers and motors

TECHNICAL DATA
AND PARTS LIST

TECHNICAL DATA
AND PARTS LIST

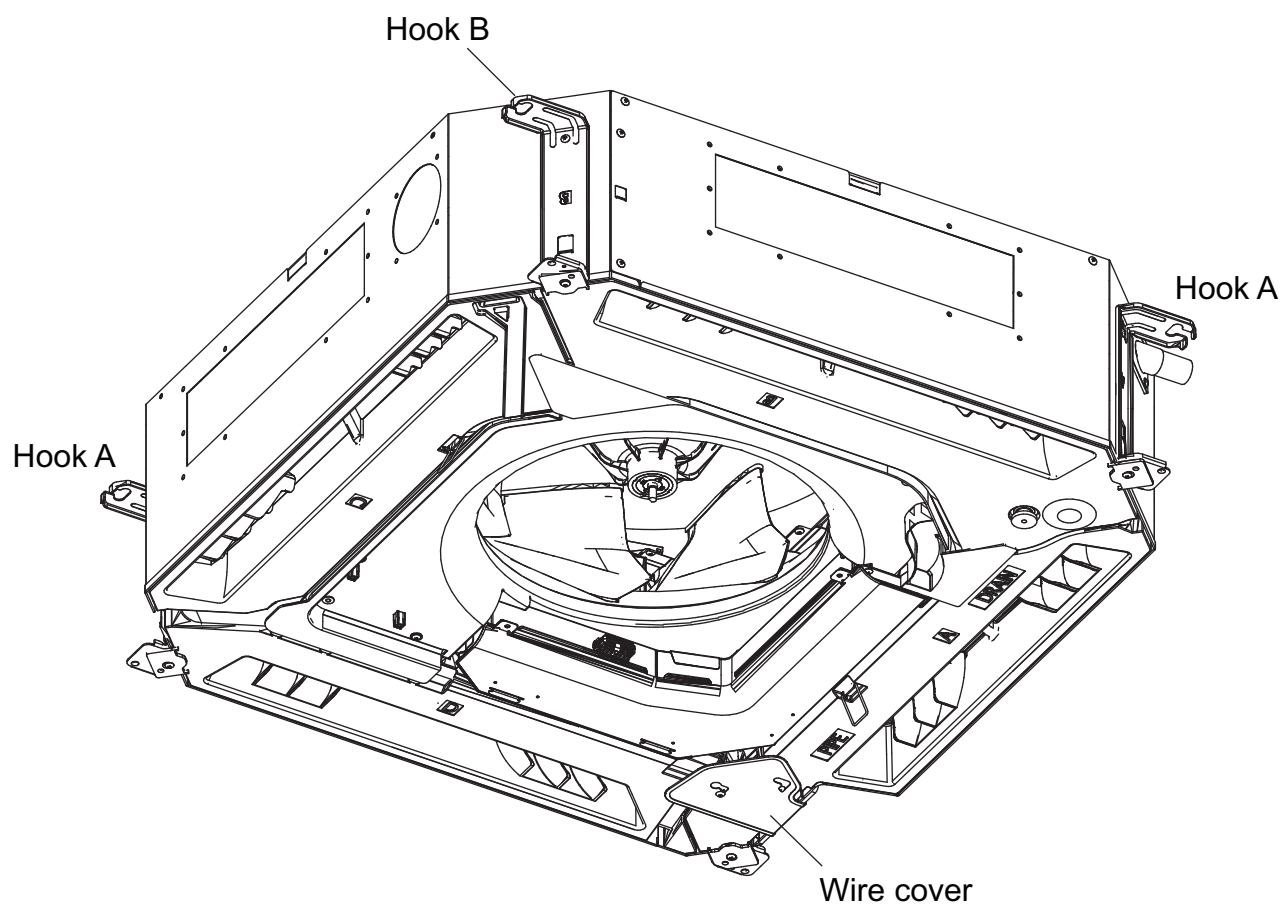


Ref No.	Description	Parts No.
21	Louver Assy	9381693009
22	Motor Case Assy	9381712007
23	Step Motor	9900885007
24	Motor Cover	9381354009
	Wire (Step Motor)	9710175008

3. Indoor unit parts list

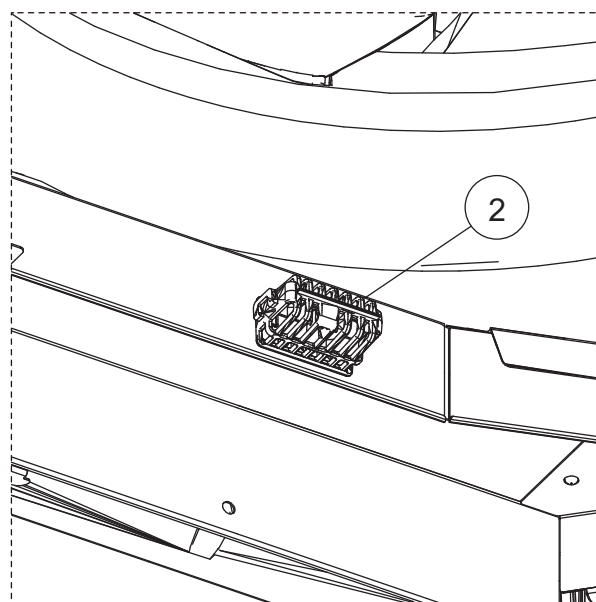
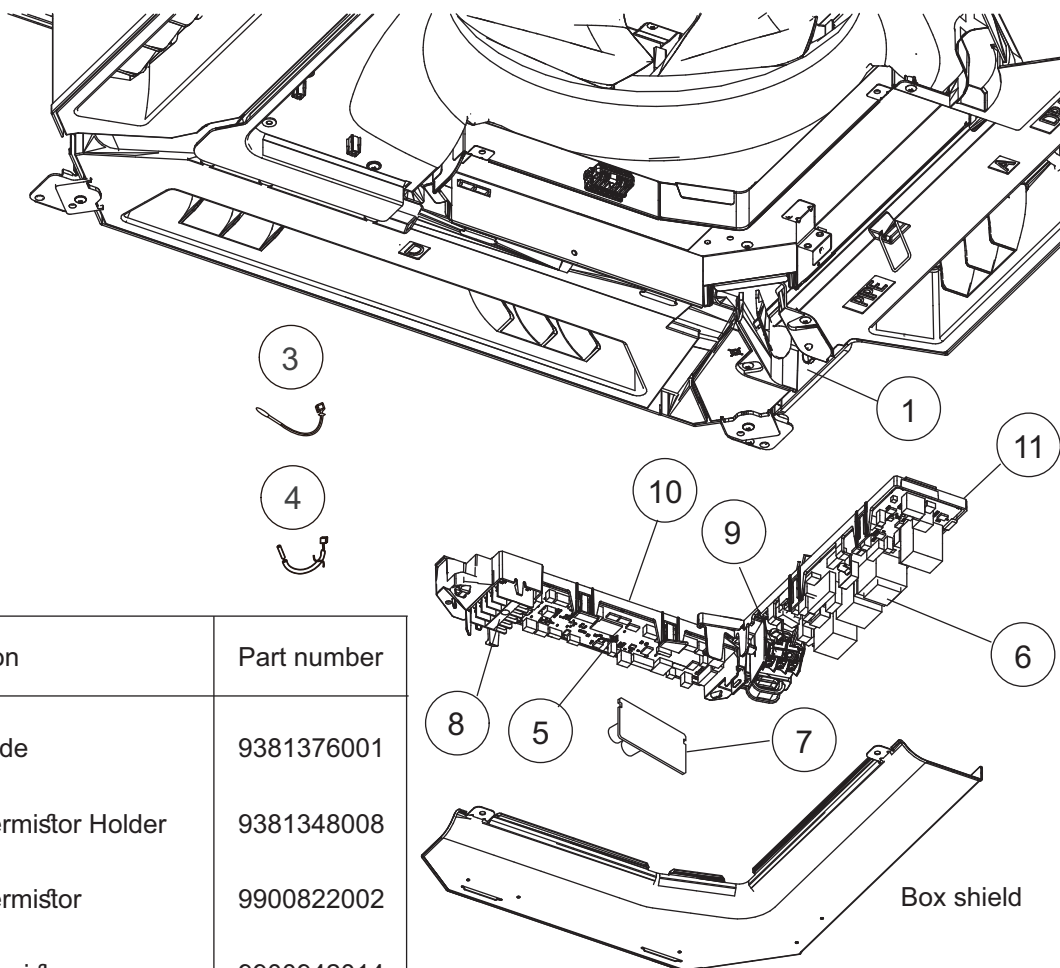
3-1. Models: AUXG24KRLB, AUXG30KRLB, AUXG36KRLB, AUXG45KRLB, and AUXG54KRLB

■ Miscellaneous parts

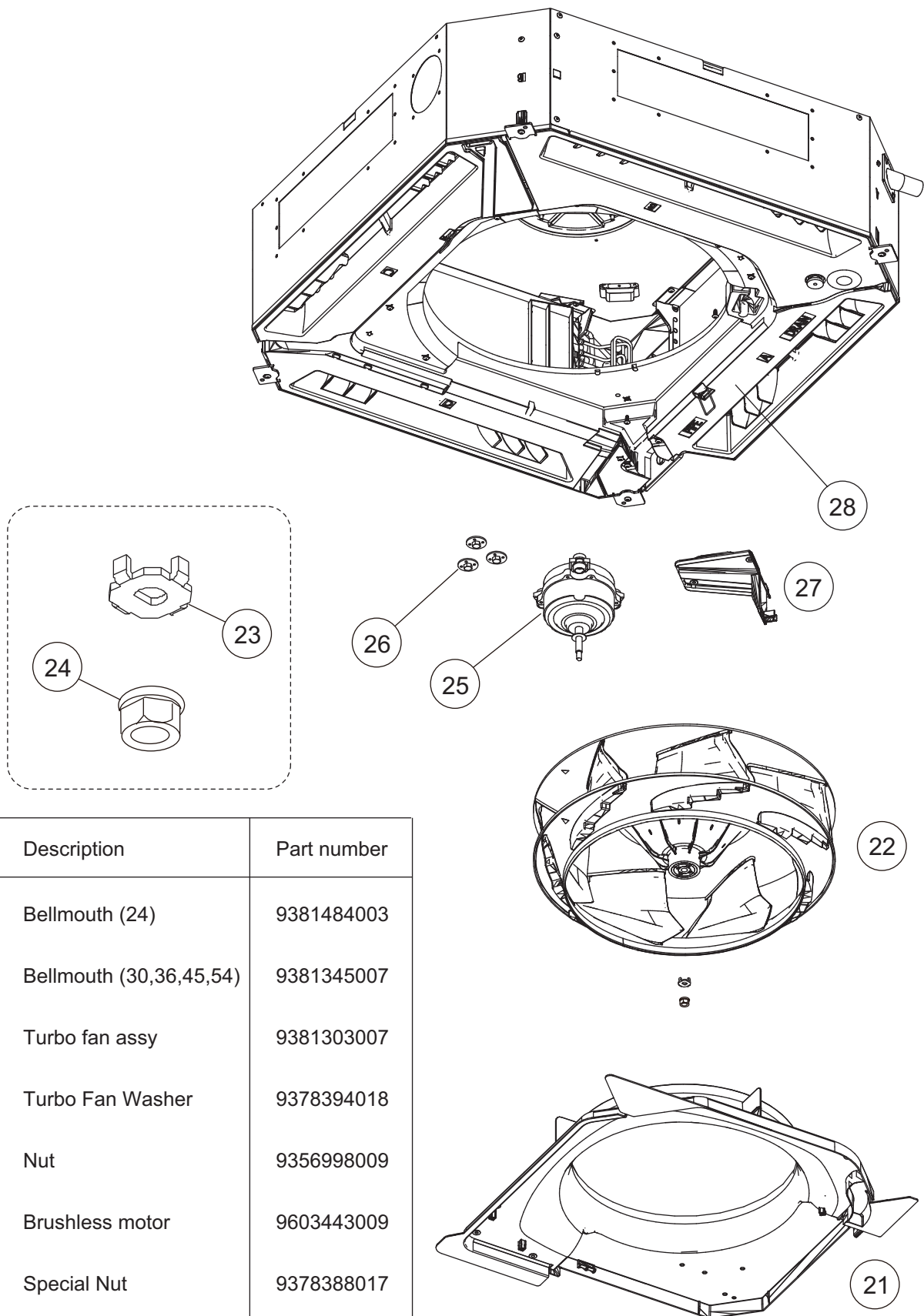


Main PC board

Ref.	Description	Part number
1	Cable guide	9381376001
2	Room thermistor Holder	9381348008
3	Room thermistor	9900822002
4	Pipe Thermistor	9900942014
5	Main PCB (AUXG24KRLB)	9710995873
5	Main PCB (AUXG30KRLB)	9710995880
5	Main PCB (AUXG36KRLB)	9710995897
5	Main PCB (AUXG45KRLB)	9710995903
5	Main PCB (AUXG54KRLB)	9710995910
6	Power PCB	9710022005
7	PCB (Non-polar 2-wire)	9710019005
8	Remote terminal 5P	9900896003
9	Power Terminal 3P	9900720032
10	Main PCB holder	9381350001
11	Power PCB Holder	9381349005

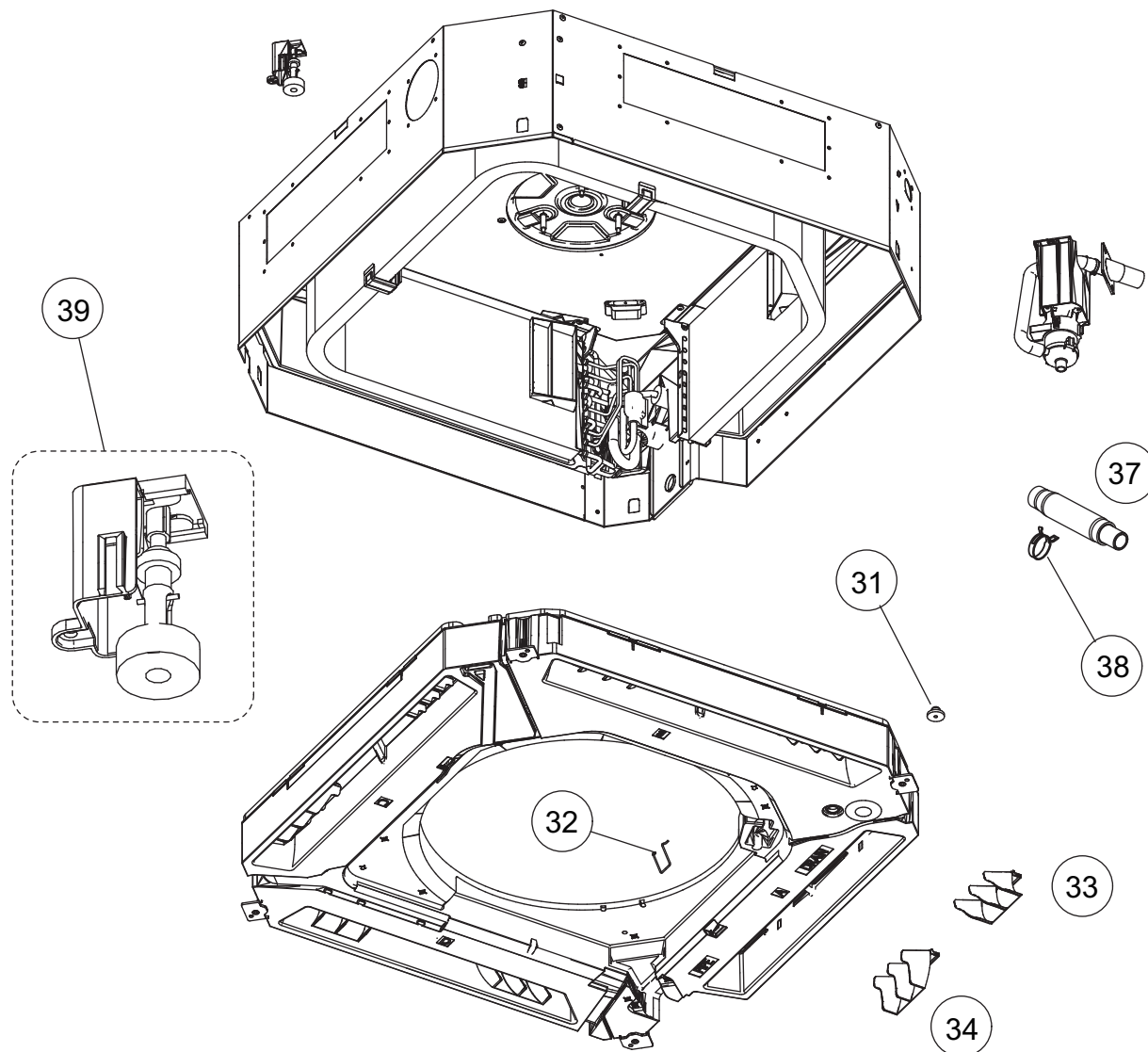


Fan and motor

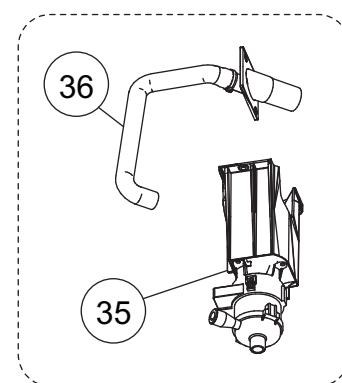


Ref.	Description	Part number
21	Bellmouth (24)	9381484003
21	Bellmouth (30,36,45,54)	9381345007
22	Turbo fan assy	9381303007
23	Turbo Fan Washer	9378394018
24	Nut	9356998009
25	Brushless motor	9603443009
26	Special Nut	9378388017
27	Motor Wire Holder	9381351008
28	Drain pan sub assy	9381789009

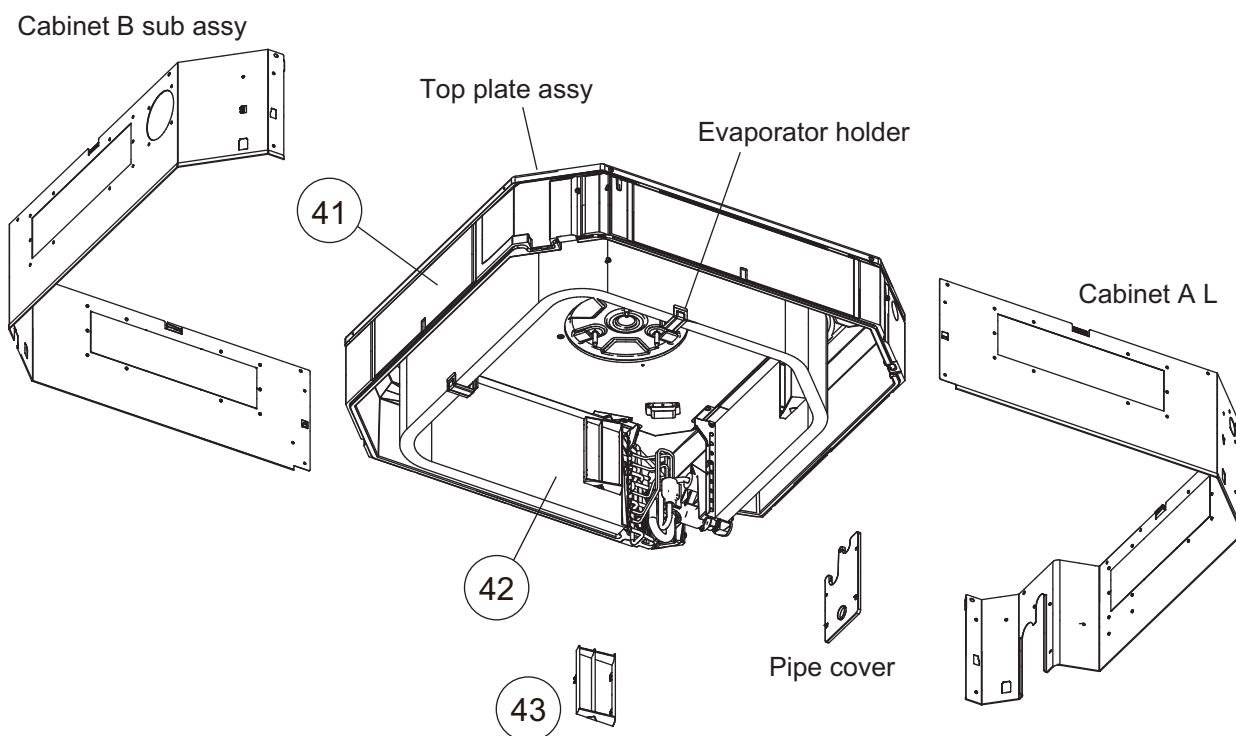
■ Drain pump



Ref.	Description	Part number
31	Drain Cap	9375502010
32	Panel Hook	9375671013
33	Vane L	9381745012
34	Vane R	9381744008
35	Drain Pump Sub Assy	9381793006
36	Drain Port Sub Assy	9381788002
37	Drain Hose	9379665001
38	Hose Band	9379757010
39	Float Switch Sub Assy	9381794003



Evaporator

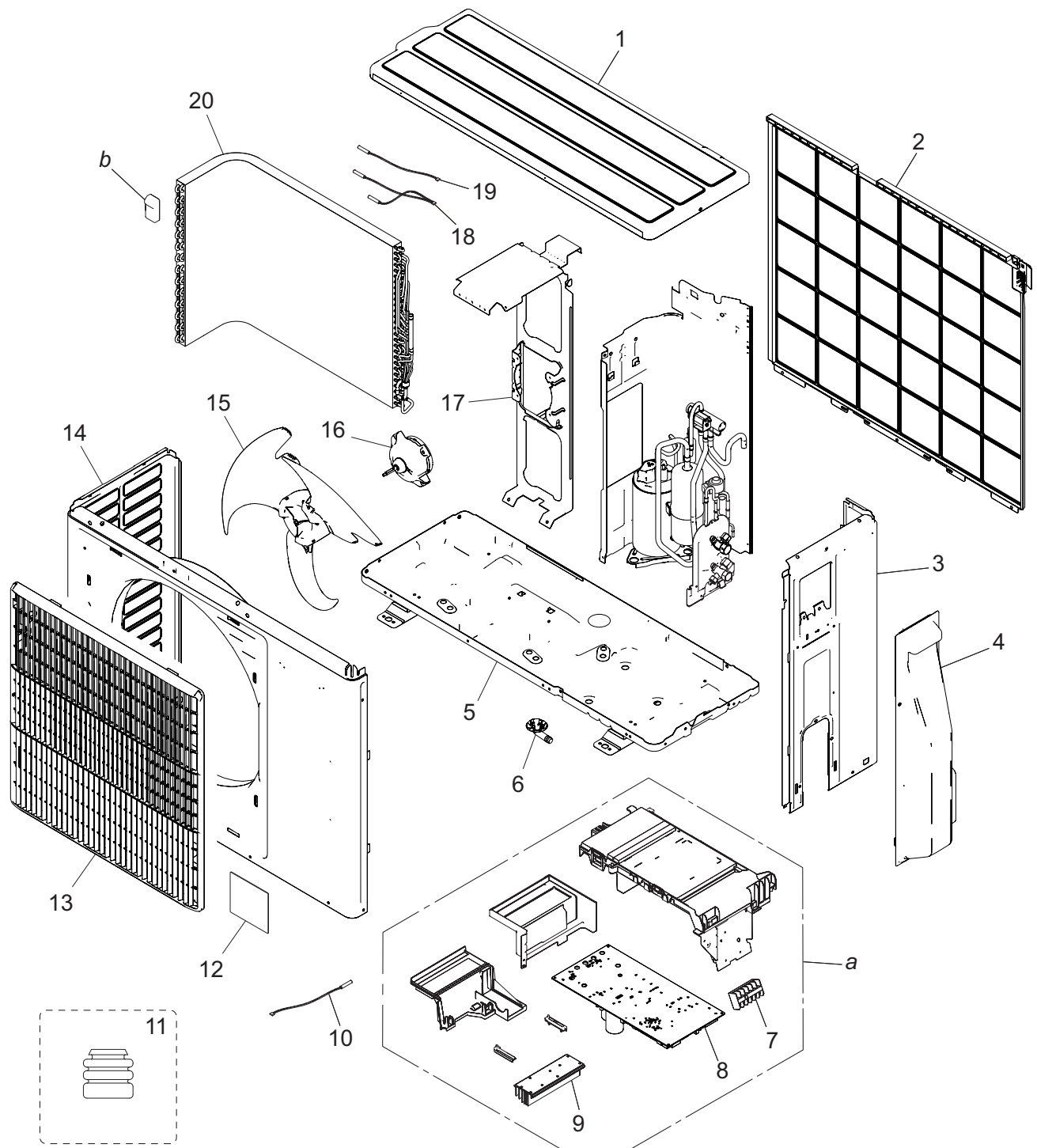


Ref.	Description	Part number
41	Insulation Box Sub Assy (24)	9381787012
41	Insulation Box Sub Assy (30,36,45,54)	9381787005
42	Evaporator Total Assy (24)	9378580664
42	Evaporator Total Assy (30)	9378580671
42	Evaporator Total Assy (36,45,54)	9378580688
43	Wind Guide Board	9382125004

4. Outdoor unit parts list

4-1. Model: AOHG24KATA

■ Exterior parts and Chassis

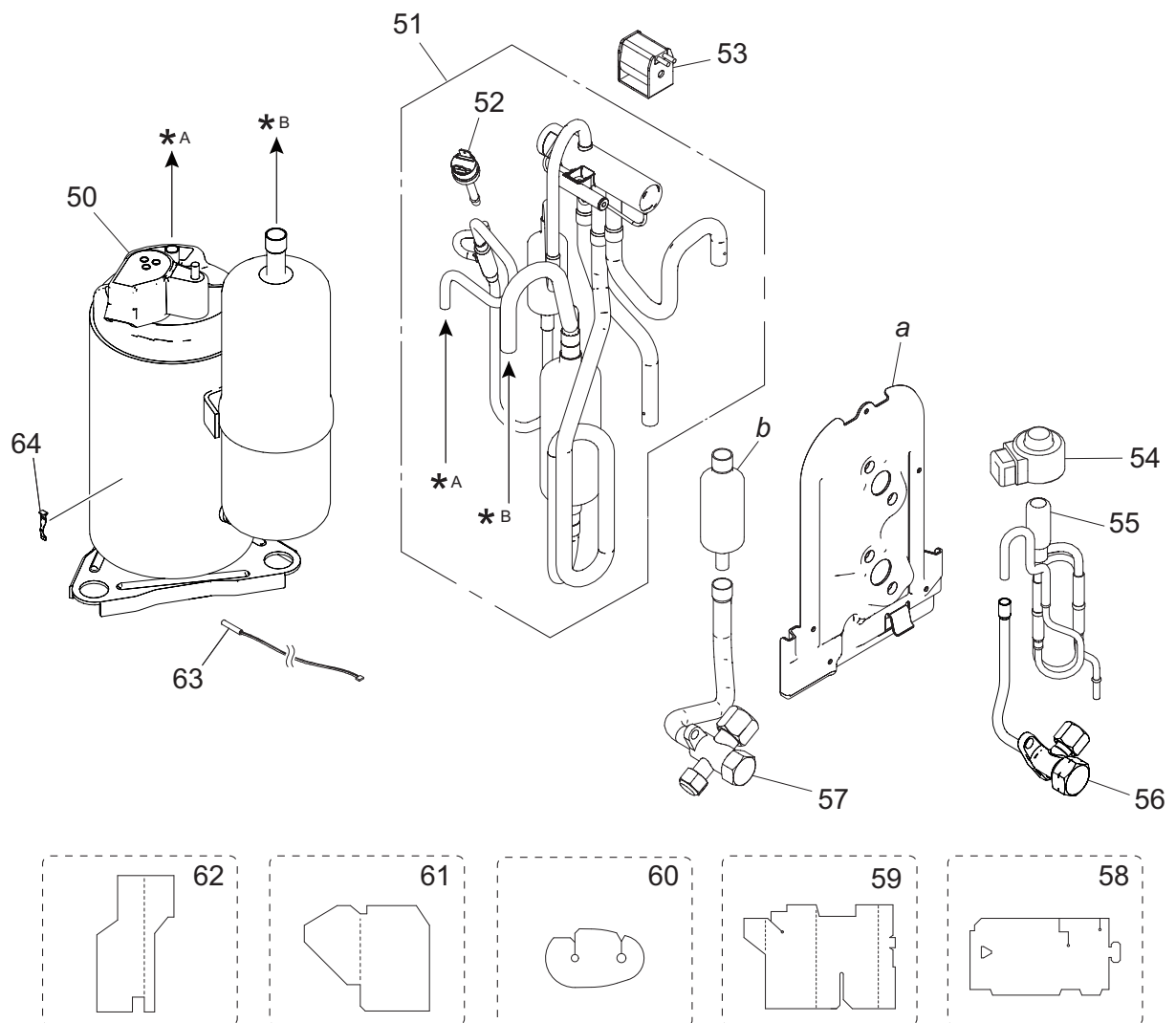


Item no.	Part no.	Part name	Service part
1	9322556028	Top panel assy	◆
2	9322811028	Protective net assy	◆
3	9322552099	Cabinet right assy	◆
4	9322570024	Switch cover assy	◆
5	9322314024	Base assy	◆
6	9322144003	Drain pipe	◆
7	9900435028	Terminal	◆
8	9709685297	Main PCB (Service) (for 22 model)	◆
	9709685303	Main PCB (Service) (for 24 model)	◆
9	9322420039	Heat sink	◆
10	9900565060	Thermistor assy (Outdoor temp.)	◆
11	9322386007	Cushion rubber	◆
12	9319157009	Emblem	◆
13	9322149008	Blow grille	◆
14	9322555021	Front panel assy	◆
15	9322150004	Propeller fan	◆
16	9603601003	Brushless motor	◆
17	9322553027	Motor bracket assy	◆
18	9900984014	Heat exchanger thermistor	◆
19	9900727079	Thermistor assy	◆
20	9323834194	Heat exchanger unit (for 22 model)	◆
	9323834330	Heat exchanger unit (for 24 model)	◆
<i>a</i>	—	Inverter assy	—
<i>b</i>	—	Hair pin cushion	—

Compressor

TECHNICAL DATA
AND PARTS LIST

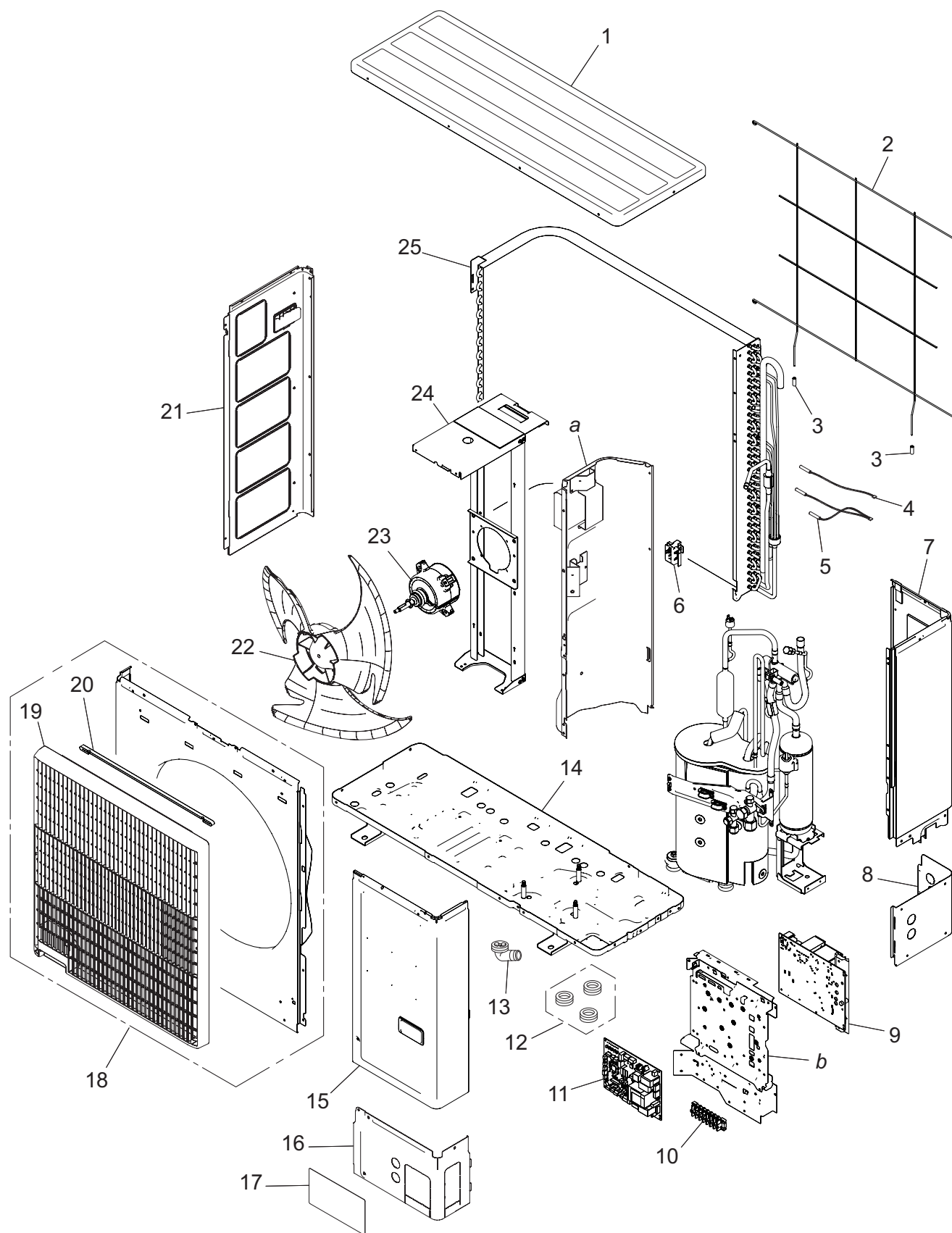
TECHNICAL DATA
AND PARTS LIST



Item no.	Part no.	Part name	Service part
50	9322433008	Compressor (for 22 model)	◆
	9810521002	Compressor (for 24 model)	◆
51	9322783028	4-way valve assy (for 22 model)	◆
	9383129032	4-way valve assy (for 24 model)	◆
52	9900186029	Pressure switch (only for 24 model)	◆
53	9970110160	Solenoid	◆
54	9970173028	Expansion valve coil	◆
55	9322463029	Pulse motor valve assy	◆
56	9322474001	2-way valve assy	◆
57	9387831016	3-way valve assy	◆
58	9322500007	S-insulator B (for 22 model)	◆
	9322503008	S-insulator B (for 24 model)	◆
59	9322847003	S-insulator F	◆
60	9322501004	S-insulator H	◆
61	9323045002	S-insulator V	◆
62	9322824004	S-insulator K (only for 24 model)	◆
63	9900985011	Thermistor (Compressor temp.) (only for 24 model)	◆
64	9810028006	Thermistor stopper (only for 24 model)	◆
<i>a</i>	—	Valve bracket	—
<i>b</i>	—	Muffler	—

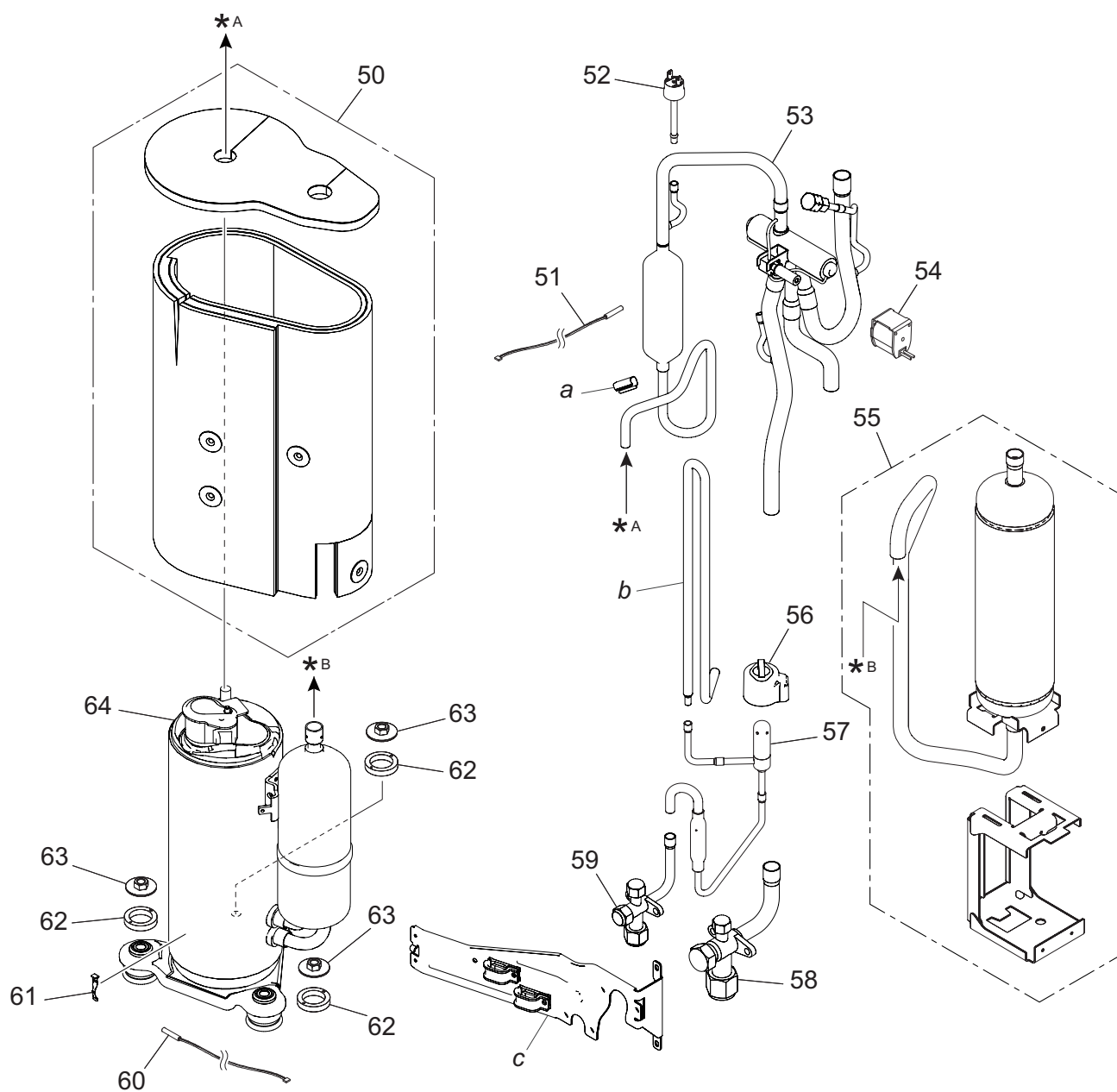
4-2. Models: AOHG30KATA and AOHG36KATA

■ Exterior parts and chassis



Item no.	Part no.	Part name	Service part
1	9383880001	Top panel assy	◆
2	9383779008	Protective net	◆
3	9375361013	Net rubber	◆
4	9900984038	Thermistor (Heat exchanger)	◆
5	9900727154	Thermistor assy	◆
6	9383607004	Thermo holder	◆
7	9383874000	Right panel sub assy	◆
8	9383879005	Rear pipe cover	◆
9	9709684108	Inverter PCB	◆
10	9900203061	Terminal	◆
11	9711431042	Main PCB (Service) (for 30 model)	◆
	9711431059	Main PCB (Service) (for 36 model)	◆
12	313166024302	Drain cap	◆
13	9303029015	Drain assy	◆
14	9350255009	Base assy (Service)	◆
15	9383876004	Service panel sub assy	◆
16	9383878008	Front pipe cover	◆
17	9372171059	Emblem rear	◆
18	9383863004	Front panel assy	◆
19	9383604003	Blow grille	◆
20	9383689000	Blow grille insulation	◆
21	9383882005	Left panel sub assy	◆
22	9383336003	Propeller fan	◆
23	9603732011	Brushless motor	◆
24	9383862007	Motor bracket assy	◆
25	9374420612	Condenser sub assy	◆
—	9711332004	Wire with terminal (Power wire L)	◆
—	9711332011	Wire with terminal (Power wire N)	◆
—	9711205001	Wire with connector (P350 on Main PCB—P351 on Inverter PCB)	◆
—	9711203007	Wire with connector (P660 on Main PCB—P662 on Inverter PCB)	◆
—	9711204004	Wire with connector (P661 on Main PCB—P663 on Inverter PCB)	◆
—	9711214003	Wire with connector (Pressure switch)	◆
—	9711213006	Wire with connector (P770 on Inverter PCB [for Pressure switch])	◆
—	9711212009	Wire with connector (P650 on Inverter PCB—Fan motor)	◆
—	9711206015	Wire with terminal (P400 [U], P401 [V], P402 [W] on Inverter PCB— Compressor)	◆
<i>a</i>	—	Separate wall assy	—
<i>b</i>	—	Control box unit	—

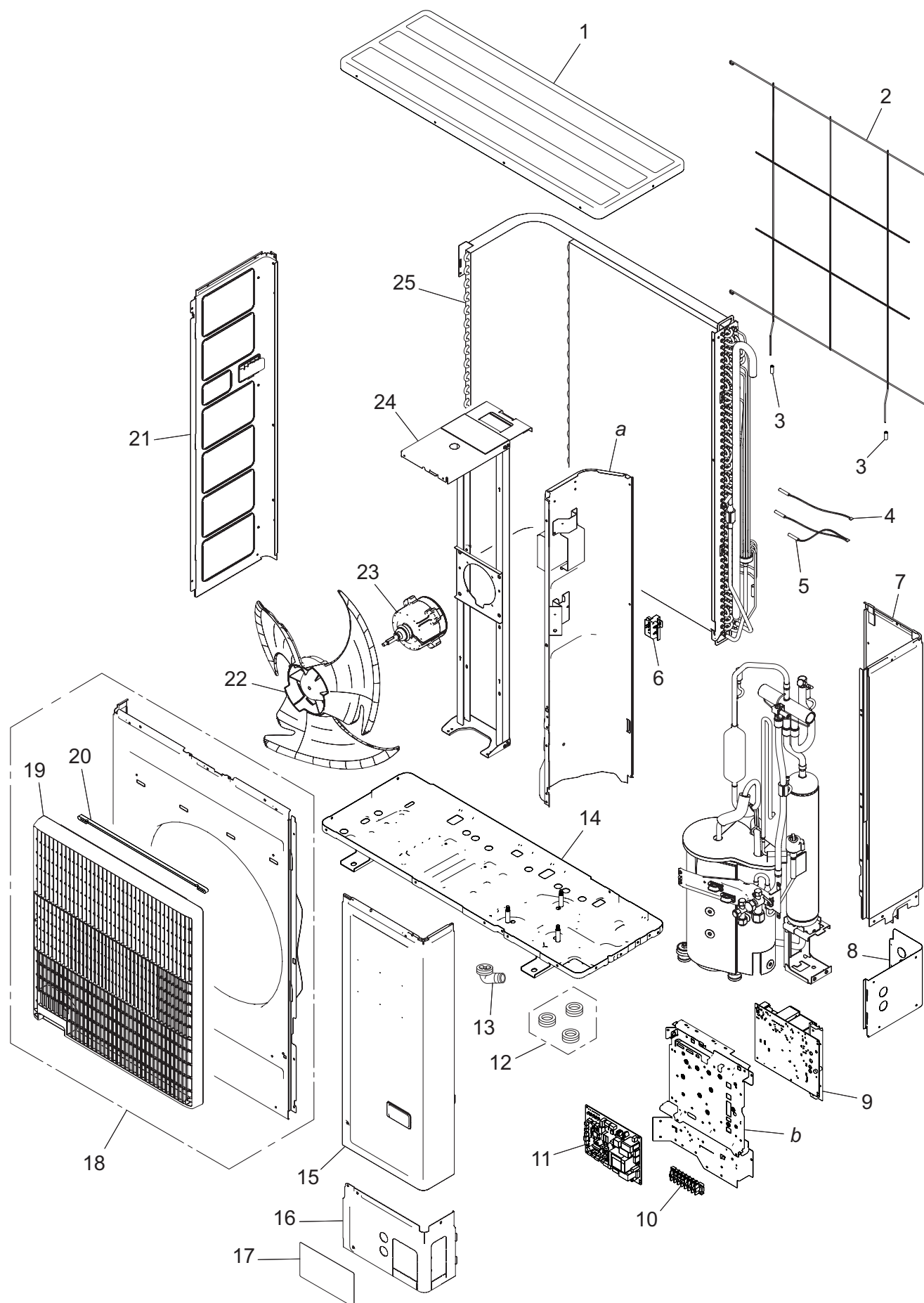
Compressor



Item no.	Part no.	Part name	Service part
50	9383858000	Sound insulation unit	◆
51	9900565091	Thermistor (Outdoor temp.)	◆
52	9900186029	Pressure switch	◆
53	9374425648	4-way valve assy	◆
54	9970194016	Solenoid	◆
55	9384848017	Accumulator assy (service)	◆
56	9970209000	Expansion valve coil	◆
57	9370947328	Expansion valve assy	◆
58	9379079013	3-way valve assy	◆
59	9377958037	3-way valve assy	◆
60	9900985035	Thermistor (Compressor)	◆
61	9810028006	Thermistor stopper	◆
62	9379179072	Rubber washer E	◆
63	9377973016	Special nut	◆
64	9383821004	Compressor assy	◆
a	—	Thermostat holder	—
b	—	Joint pipe D	—
c	—	Wiring fixation unit	—

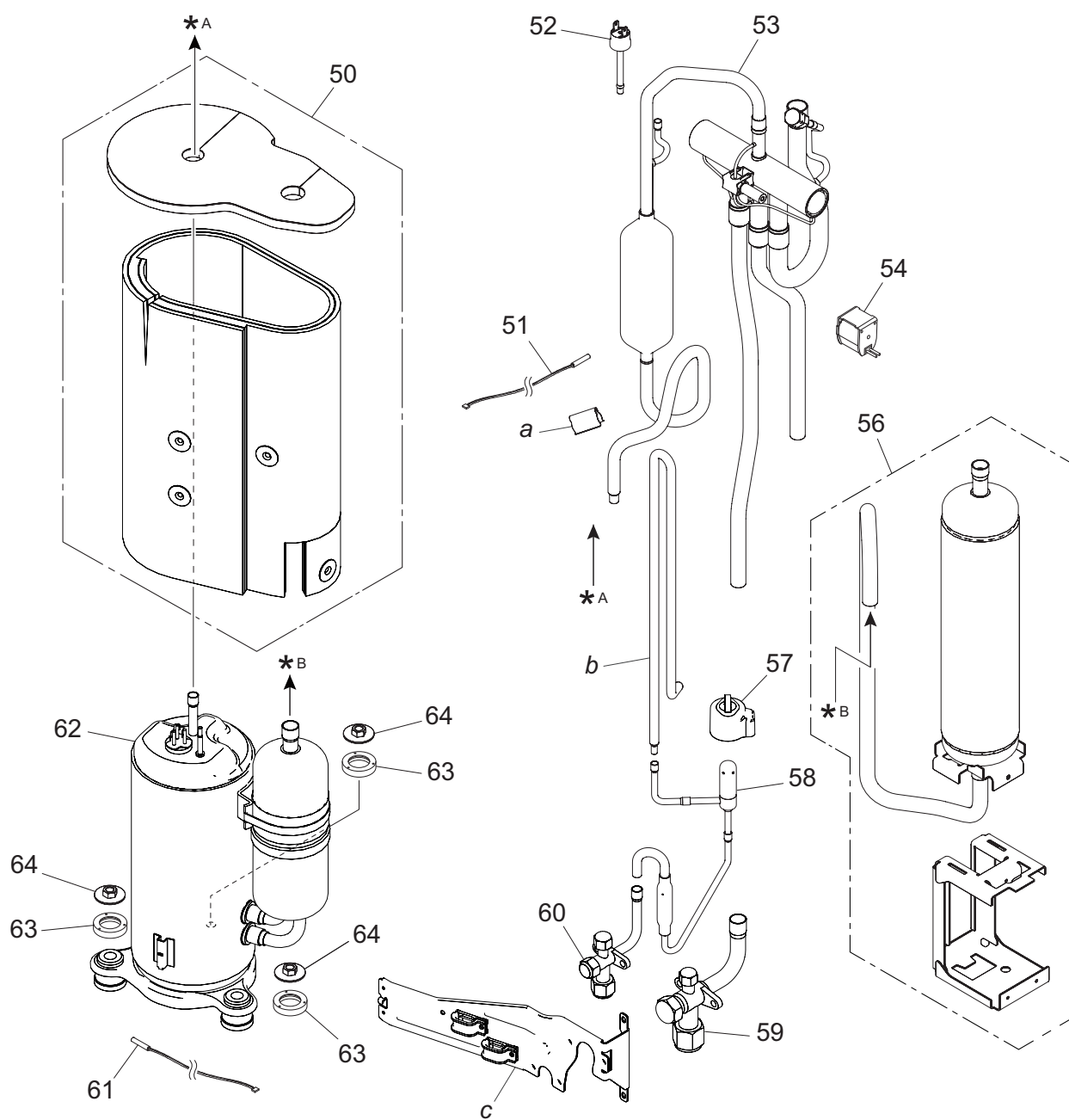
4-3. Models: AOHG45KATA and AOHG54KATA

■ Exterior parts and chassis



Item no.	Part no.	Part name	Service part
1	9383880001	Top panel assy	◆
2	9381013005	Protective net	◆
3	9375361013	Net rubber	◆
4	9900984038	Thermistor (Heat exchanger)	◆
5	9900727154	Thermistor assy	◆
6	9383607004	Thermo holder	◆
7	9383874017	Right panel sub assy	◆
8	9383879005	Rear pipe cover	◆
9	9709684122	Inverter PCB (for 45 model)	◆
	9709684115	Inverter PCB (for 54 model)	◆
10	9900203061	Terminal	◆
11	9711431066	Main PCB (Service) (for 45 model)	◆
	9711431158	Main PCB (Service) (for 54 model)	◆
12	313166024302	Drain cap	◆
13	9303029015	Drain assy	◆
14	9350255009	Base assy (Service)	◆
15	9383876011	Service panel sub assy	◆
16	9383878008	Front pipe cover	◆
17	9372171059	Emblem rear	◆
18	9383863011	Front panel assy	◆
19	9383604003	Blow grille	◆
20	9383689000	Blow grille insulation	◆
21	9383882012	Left panel sub assy	◆
22	9383336003	Propeller fan	◆
23	9603733018	Brushless motor	◆
24	9383862021	Motor bracket assy	◆
25	9374420636	Condenser sub assy	◆
—	9711332004	Wire with terminal (Power wire L)	◆
—	9711332011	Wire with terminal (Power wire N)	◆
—	9711205001	Wire with connector (P350 on Main PCB—P351 on Inverter PCB)	◆
—	9711203007	Wire with connector (P660 on Main PCB—P662 on Inverter PCB)	◆
—	9711204004	Wire with connector (P661 on Main PCB—P663 on Inverter PCB)	◆
—	9711214003	Wire with connector (Pressure switch)	◆
—	9711213006	Wire with connector (P770 on Inverter PCB [for Pressure switch])	◆
—	9711212009	Wire with connector (P650 on Inverter PCB—Fan motor)	◆
—	9711206008	Wire with terminal (P400 [U], P401 [V], P402 [W] on Inverter PCB— Compressor)	◆
<i>a</i>	—	Separate wall assy	—
<i>b</i>	—	Control box unit	—

Compressor


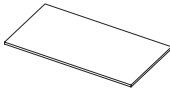
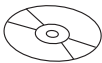
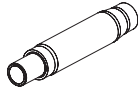






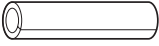

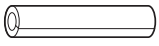


Item no.	Part no.	Part name	Service part
50	9383858017	Sound insulation unit	◆
51	9900565091	Thermistor (Outdoor temp.)	◆
52	9900186029	Pressure switch	◆
53	9374425662	4-way valve assy (for 45 model)	◆
	9374425655	4-way valve assy (for 54 model)	◆
54	9970194016	Solenoid	◆
56	9384848024	Accumulator assy (Service)	◆
57	9970209000	Expansion valve coil	◆
58	9370947311	Expansion valve assy	◆
59	9379079013	3-way valve assy	◆
60	9377958037	3-way valve assy	◆
61	9900985028	Thermistor (Compressor)	◆
62	9383851032	Compressor (for 45 model)	◆
	9383851018	Compressor (for 54 model)	◆
63	9379179089	Rubber washer F	◆
64	9377973016	Special nut	◆
a	—	Thermistor spring	—
b	—	Joint pipe D	—
c	—	Wiring fixation unit	—

5. Accessories


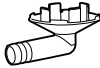
5-1. Indoor unit

■ **Models: AUXG24KRLB, AUXG30KRLB, AUXG36KRLB, AUXG45KRLB, and AUXG54KRLB**





Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Operating manual		1	Insulation		1
Operating manual (CD-ROM)		1	Drain hose		1
Installation manual		1	Hose band		1
Template (Carton top)		1	Drain hose heat insulation		1
Washer		8	Cable tie (large)		4
Coupler heat insulation (large)		1	Cable tie (small)		2
Coupler heat insulation (small)		1			

5-2. Outdoor unit

■ Model: AOHG24KATA

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

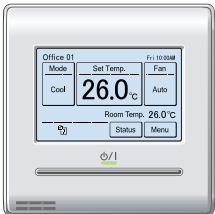
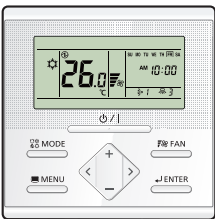
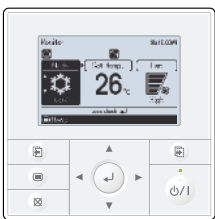
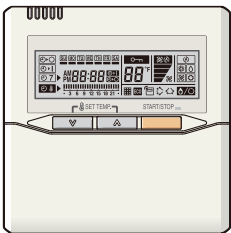


■ Models: AOHG30KATA, AOHG36KATA, AOHG45KATA, and AOHG54KATA


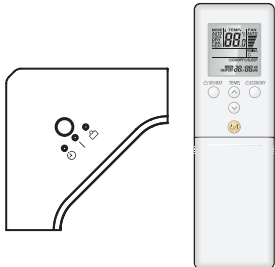
Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Installation manual		1	Drain cap		3
Drain pipe		1	One-touch bush		2

6. Optional parts

6-1. Indoor unit



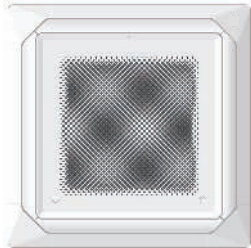
■ Controllers

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

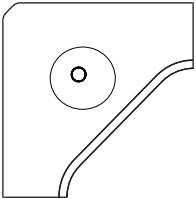
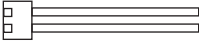

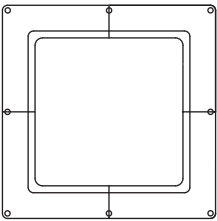
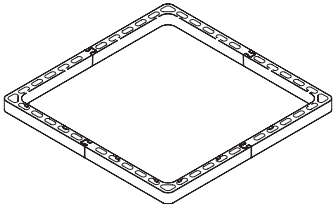

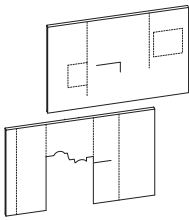
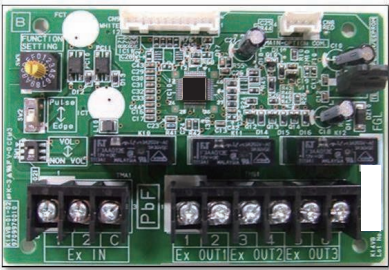
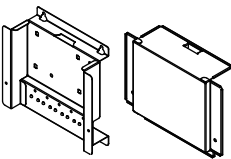
Exterior	Part name	Model name	Summary
	Simple remote controller	UTY-RSNGM	Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode. Wire type: Polar 3-wire
	IR receiver kit with wireless remote controller	UTY-LBTGC1	Unit control is performed by wireless remote controller.





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

■ Cassette grille

Exterior	Part name	Model name	Summary
	Cassette grille	UTG-UKGA-W	This cassette grille to blow airflow in 360° direction by unique seamless airflow louver design. Wired remote controller (UTY-RNRGZ*) is included.
	Cassette grille	UTG-UKGA-B	This cassette grille to blow airflow in 360° direction by unique seamless airflow louver design. Black color model.
	Cassette grille	UTG-UKGC-W	This cassette grille to blow airflow in 360° direction by unique seamless airflow louver design.

Others

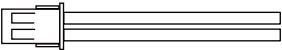
Exterior	Part name	Model name	Summary
	Human sensor kit	UTY-SHZXC	For circular flow cassette type.
	External connect kit	UTY-XWZXZG	Use to connect with various peripheral devices and air conditioner PCB. For control output port.
	Air outlet shutter plate	UTR-YDZK	Installed at the air outlet when 3-directions mode is performed.
	Wide panel	UTG-AKXA-W	Hides the gap between the ceiling hole and the cassette grille.
	Panel spacer	UTG-BKXA-W	If there is not enough height in the ceiling space, by inserting this spacer between the cassette grille and the ceiling surface, the height of the unit body goes into the ceiling space become 50-mm lower.
	Fresh-air intake kit	UTZ-VXRA	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-KXRA	Install when the under-roof condition is expected to be the humidity of over 80% and the temperature of over 30 °C.
	External input and output PCB	UTY-XCSX	Use to connect with external devices and air conditioner PCB.
	External input and output PCB box	UTZ-GXRA	For installing the External input and output PCB.

Exterior	Part name	Model name	Summary
	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.

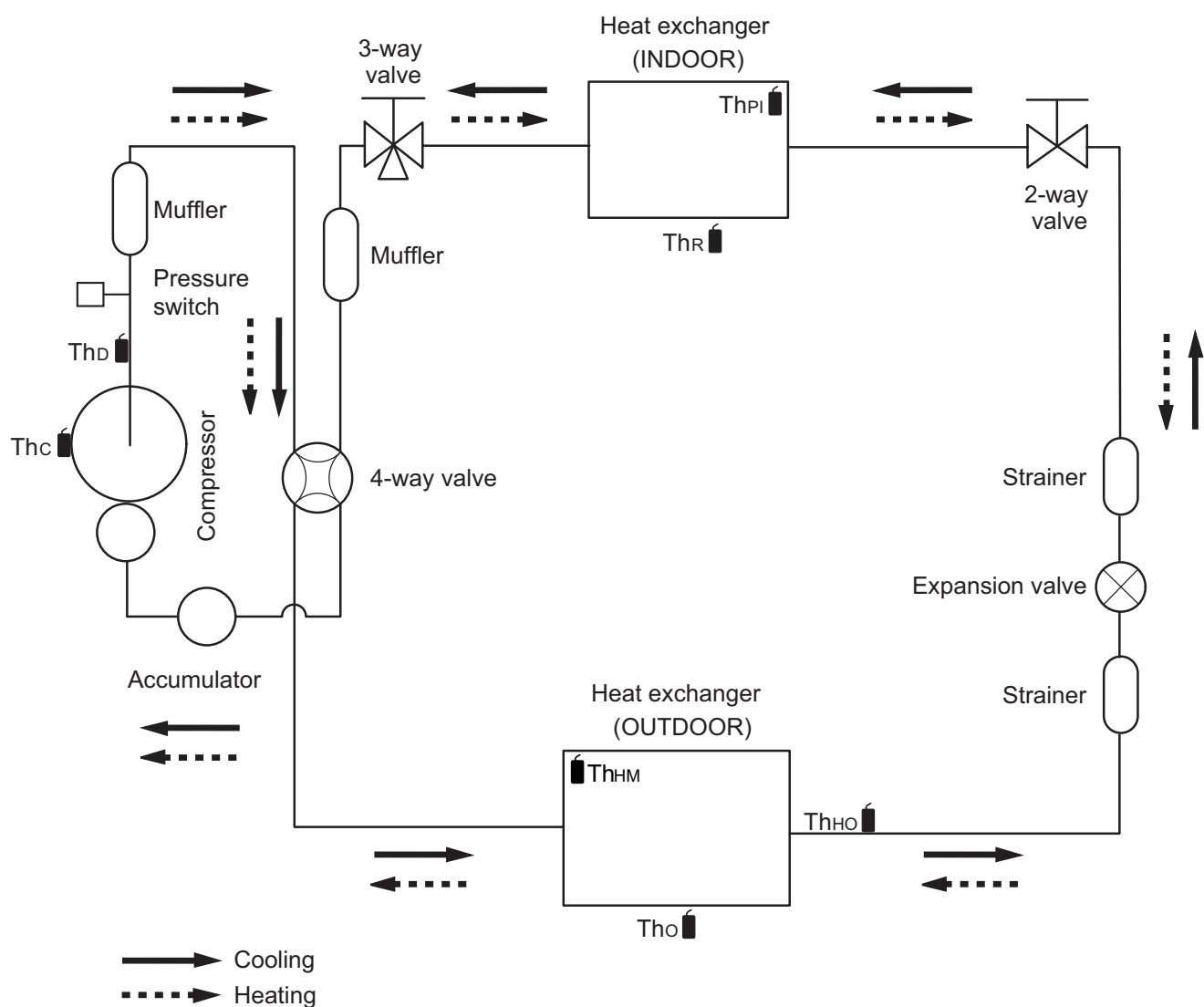
- External input and output PCB (UTY-XCSX)
- Modbus converter
- KNX converter

6-2. Outdoor unit

Exterior	Part name	Model name	Summary
	External connect kit	UTY-XWZXZ3	Use to operate the external input and output functions of outdoor unit.

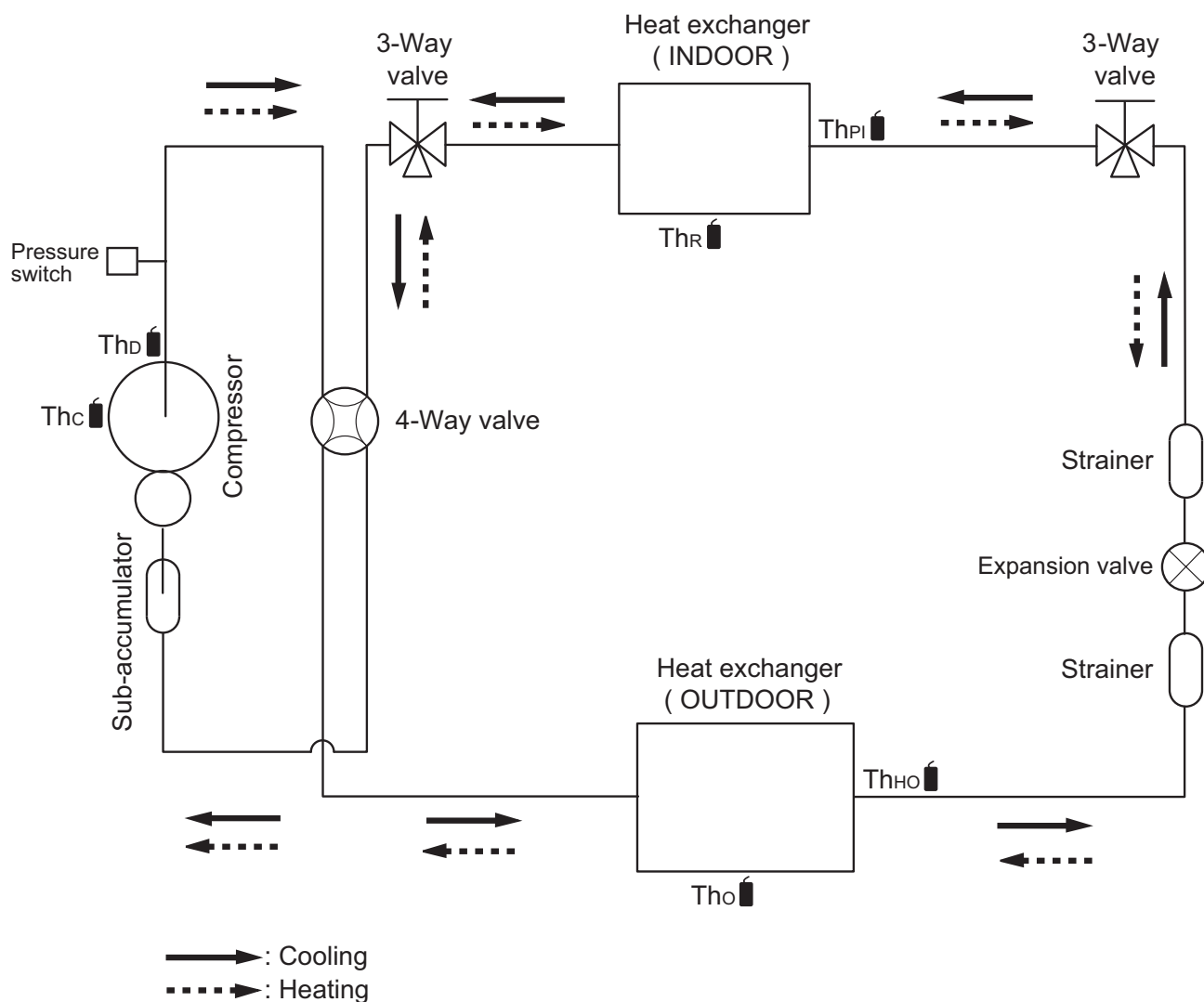
7. Refrigerant system diagrams

7-1. Model: AOHG24KATA



- 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)

7-2. Models: AOHG30KATA, AOHG36KATA, AOHG45KATA, and AOHG54KATA

TECHNICAL DATA
AND PARTS LISTTECHNICAL DATA
AND PARTS LIST

Thc : Thermistor (Compressor temperature)

ThD : Thermistor (Discharge temperature)

Tho : Thermistor (Outdoor temperature)

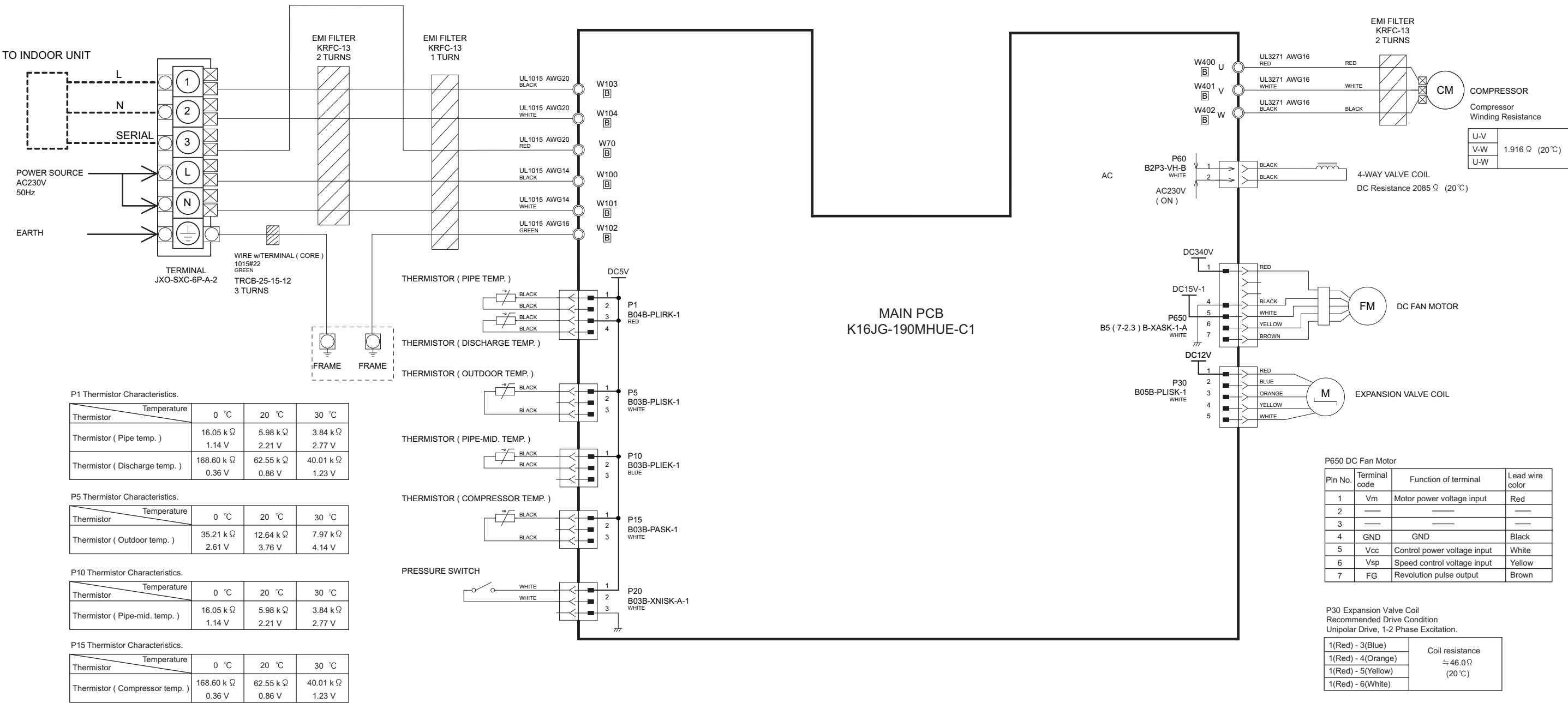
ThHo : Thermistor (Heat Exchanger Out temperature)

ThR : Thermistor (Room temperature)

ThPI : Thermistor (Pipe temperature)

8-2. AOHG24KATA

INVERTER ASSEMBLY
EZ-019FHUE



8-3. Models: AOHG30KATA, AOHG36KATA, AOHG45KATA, and AOHG54KATA

INVERTER ASSEMBLY

30 model : EZ-0190DHUE 45 model : EZ-0192HUE
36 model : EZ-0190DHUE 54 model : EZ-01907HUE

