

AIRSTAGE

AIR CONDITIONER

Multi-split Indoor Units

FUJITSU

REFRIGERANT **R32**
INVERTER

SERVICE MANUAL



ACUH07KUAS
ACUH09KUAS
ACUH12KUAS
ACUH18KUAS



ADUH07KUAS
ADUH09KUAS
ADUH12KUAS



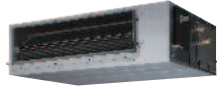
ADUH18KUAS



ADUH24KUAS



ARUH12KUAS



ARUH18KUAS
ARUH24KUAS



ASUH07KPAS
ASUH09KPAS
ASUH12KPAS
ASUH15KPAS



ASUH18KPAS
ASUH24KPAS

FUJITSU GENERAL LIMITED

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Notices:

- 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. Model lineup











Refer to the following tables for the multi-split outdoor unit and the connectable indoor units.

For the outdoor units' technical information, parts lists, whole system troubleshooting, control and functions, and related fieldwork, refer to the *Service Manual* for the multi-split outdoor units.

●: Connectable, —: Not connectable

Standard climate region					
Indoor unit		Outdoor unit			
		2-unit	3-unit	4-unit	5-unit
					
Type	Model	AOUH18KWAS2	AOUH24KWAS3	AOUH36KWAS4	AOUH45KWAS5
Compact cassette	 ACUH07KUAS	●	●	●	●
	ACUH09KUAS	●	●	●	●
	ACUH12KUAS	●	●	●	●
	ACUH18KUAS	—	●	●	●
Slim duct	 ADUH07KUAS	●	●	●	●
	ADUH09KUAS	●	●	●	●
	ADUH12KUAS	●	●	●	●
	 ADUH18KUAS	—	●	●	●
Middle duct	 ADUH24KUAS	—	—	●	●
	 ARUH12KUAS	●	●	●	●
	ARUH18KUAS	—	●	●	●
	ARUH24KUAS	—	—	●	●
Wall mounted	 ASUH07KPAS	●	●	●	●
	ASUH09KPAS	●	●	●	●
	ASUH12KPAS	●	●	●	●
	ASUH15KPAS	●	●	●	●
	 ASUH18KPAS	—	●	●	●
	ASUH24KPAS	—	—	●	●

●: Connectable, —: Not connectable

Cold climate region					
Indoor unit		Outdoor unit			
		2-unit	3-unit	4-unit	
					
Type	Model	AOUH18KWAH2	AOUH24KWAH3	AOUH36KWAH4	
Compact cassette		ACUH07KUAS	●	●	●
		ACUH09KUAS	●	●	●
		ACUH12KUAS	●	●	●
		ACUH18KUAS	—	●	●
Slim duct		ADUH07KUAS	●	●	●
		ADUH09KUAS	●	●	●
		ADUH12KUAS	●	●	●
		ADUH18KUAS	—	●	●
		ADUH24KUAS	—	—	●
Middle duct		ARUH12KUAS	●	●	●
		ARUH18KUAS	—	●	●
		ARUH24KUAS	—	—	●
Wall mounted		ASUH07KPAS	●	●	●
		ASUH09KPAS	●	●	●
		ASUH12KPAS	●	●	●
		ASUH15KPAS	●	●	●
		ASUH18KPAS	—	●	●
		ASUH24KPAS	—	—	●

2. Specifications

2-1. Compact cassette type

■ Models: ACUH07KUAS, ACUH09KUAS, ACUH12KUAS, and ACUH18KUAS

Type				Cassette				
				Inverter, Heat pump				
Model name				ACUH07KUAS	ACUH09KUAS	ACUH12KUAS	ACUH18KUAS	
Power supply intake				Outdoor unit				
System power supply		Voltage		208/230				
		Frequency		60				
		Available voltage range		187—253				
Indoor unit power supply (from outdoor unit)				208/230				
Capacity		Btu/h class		7,000	9,000	12,000	18,000	
Input power				W		18	23	39
Running current				A		0.15	0.20	0.30
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	318 (540)	359 (610)	441 (750)	
			MED		288 (490)	312 (530)	341 (580)	
			LOW		259 (440)	277 (470)	288 (490)	
			QUIET		241 (410)			
		Heating	HIGH		318 (540)	359 (610)	471 (800)	
			MED		288 (490)	312 (530)	400 (680)	
			LOW		259 (440)	277 (470)	341 (580)	
			QUIET		230 (390)	241 (410)	265 (450)	
	Type × Qty		Turbo fan × 1					
	Motor output		W					
Sound pressure level*1	Cooling	HIGH	dB (A)	34	37	42		
		MED		32	34	37		
		LOW		30	31	33		
		QUIET		28	29			
	Heating	HIGH		34	37	44		
		MED		32	34	41		
		LOW		30	31	37		
		QUIET		28	29	30		
Heat exchanger type	Dimensions (H × W × D)		in (mm)	Main 1: 8-1/4 × 51-9/16 × 1/2 (210 × 1,310 × 13.3) Main 2: 8-1/4 × 49-3/16 × 1/2 (210 × 1,250 × 13.3)		Main 1: 8-1/4 × 53-9/16 × 1/2 (210 × 1,360 × 13.3) Main 2: 8-1/4 × 51 × 1/2 (210 × 1,295 × 13.3) Main 3: 8-1/4 × 48-5/8 × 1/2 (210 × 1,235 × 13.3)		
	Fin pitch		FPI	Main 1: 21 Main 2: 21		Main 1: 18 Main 2: 18 Main 3: 18		
	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		in (mm)	9-5/8 × 22-7/16 × 22-7/16 (245 × 570 × 570)				
	Gross			10-7/16 × 28-3/4 × 24-5/8 (265 × 730 × 625)				
Weight	Net		lb (kg)	33 (15)		35 (16)		
	Gross			40 (18)	42 (19)	44 (20)		
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (Ø6.35)				
		Gas		Ø3/8 (Ø9.52)		Ø1/2 (Ø12.70)		
Method		Flare						
Drain hose	Material		Polyvinyl chloride					
	Tip diameter		in (mm)	I.D.: Ø1 (Ø25), O.D.: Ø1-1/4 (Ø32)				
Operation range	Cooling		°F (°C)	64 to 90 (18 to 32)				
			%RH	80 or less				
	Heating		°F (°C)	60 to 86 (16 to 30)				
Cassette grille (Grid type: Option)	Enclosure	Material		Polystyrene				
		Color		White (UTG-CCGFGA) Approximate color of Munsell N9.25/				
	Dimensions (H × W × D)	Net	in (mm)	1-15/16 × 24-7/16 × 24-7/16 (49 × 620 × 620)				
		Gross		4-3/4 × 30-1/8 × 29-3/4 (120 × 765 × 755)				
	Weight	Net	lb (kg)	5 (2.3)				
		Gross		10 (4.5)				
Remote controller type (Option)				Wired, Wireless, Mobile app*2 (AIRSTAGE Mobile)				
NOTES:								
• 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: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual.								

2-2. Slim duct type

■ Models: ADUH07KUAS, ADUH09KUAS, ADUH12KUAS, ADUH18KUAS, and ADUH24KUAS

Type				Duct			
				Inverter, Heat pump			
Model name				ADUH07KUAS	ADUH09KUAS	ADUH12KUAS	
Power supply intake				Outdoor unit			
System power supply		Voltage		208/230			
		Frequency		60			
		Available voltage range		187—253			
Indoor unit power supply (from outdoor unit)				208/230			
Capacity				Btu/h class	7,000	9,000	12,000
Input power				W	55	65	74
Running current				A	0.32		0.37
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	324 (550)	353 (600)	383 (650)
			MED		288 (490)	324 (550)	353 (600)
			LOW		277 (470)	294 (500)	324 (550)
			QUIET		259 (440)	265 (450)	283 (480)
		Heating	HIGH		324 (550)	353 (600)	383 (650)
			MED		288 (490)	324 (550)	353 (600)
			LOW		277 (470)	294 (500)	324 (550)
			QUIET		259 (440)	265 (450)	283 (480)
	Type × Qty		Sirocco fan × 2				
	Motor output		W	80			
Static pressure range				inWG (Pa)	0.01 to 0.36 (3 to 90)		
Sound pressure level*1	Cooling	HIGH	dB (A)	28		30	
		MED		26	27	28	
		LOW		25	26	27	
		QUIET		24	25	24	
	Heating	HIGH		28		30	
		MED		26		28	
		LOW		25		27	
		QUIET		24			
Heat exchanger type	Dimensions (H × W × D)		in (mm)	11-9/16 × 19-11/16 × 1-1/16 (294 × 500 × 26.6)	11-9/16 × 19-11/16 × 1-9/16 (294 × 500 × 39.9)		
	Fin pitch		FPI	20			
	Rows × Stages		2 × 14		3 × 14		
	Pipe type		Copper tube				
	Fin type		Aluminum				
Enclosure	Material		Steel sheet				
	Color		—				
Dimensions (H × W × D)	Net		in (mm)	7-13/16 × 27-9/16 × 24-7/16 (198 × 700 × 620)			
	Gross			10-13/16 × 37-3/16 × 30-3/8 (274 × 945 × 772)			
Weight	Net		lb (kg)	35 (16)	37 (17)		
	Gross			46 (21)	49 (22)		
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (Ø6.35)			
		Gas		Ø3/8 (Ø9.52)			
	Method		Flare				
Drain hose	Material			Polyvinyl chloride			
	Tip diameter		in (mm)	I.D.: Ø1 (Ø25), O.D.: Ø1-1/4 (Ø32)			
Operation range	Cooling	°F (°C)		64 to 90 (18 to 32)			
		%RH		80 or less			
	Heating	°F (°C)		60 to 86 (16 to 30)			
Remote controller type (Option)				Wired, Mobile app*2 (AIRSTAGE Mobile)			
NOTES:							
• 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: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual.							

Type				Duct		
				Inverter, Heat pump		
Model name				ADUH18KUAS	ADUH24KUAS	
Power supply intake				Outdoor unit		
System power supply		Voltage		208/230		
		Frequency		60		
		Available voltage range		187—253		
Indoor unit power supply (from outdoor unit)				208/230		
Capacity				Btu/h class	18,000	24,000
Input power				W	103	119
Running current				A	0.43	0.64
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	553 (940)	783 (1,330)
			MED		518 (880)	730 (1,240)
			LOW		483 (820)	647 (1,100)
			QUIET		441 (750)	606 (1,030)
		Heating	HIGH		553 (940)	783 (1,330)
			MED		518 (880)	730 (1,240)
			LOW		483 (820)	647 (1,100)
			QUIET		441 (750)	606 (1,030)
	Type × Qty		Sirocco fan × 3	Sirocco fan × 4		
	Motor output		W	81		
Static pressure range				inWG (Pa)	0.01 to 0.36 (3 to 90)	0.01 to 0.20 (3 to 50)
Sound pressure level*1	Cooling	HIGH	dB (A)	32	35	
		MED		31	34	
		LOW		30	32	
		QUIET		29		
	Heating	HIGH		33	35	
		MED		32	34	
		LOW		31	32	
		QUIET		29		
Heat exchanger type	Dimensions (H × W × D)		in (mm)	11-9/16 × 27-9/16 × 1-9/16 (294 × 700 × 39.9)	11-9/16 × 35-7/16 × 1-9/16 (294 × 900 × 39.9)	
	Fin pitch		FPI	20		
	Rows × Stages		3 × 14			
	Pipe type		Copper tube			
	Fin type		Aluminum			
Enclosure	Material		Steel sheet			
	Color		—			
Dimensions (H × W × D)	Net		in (mm)	7-13/16 × 35-7/16 × 24-7/16 (198 × 900 × 620)	7-13/16 × 43-5/16 × 24-7/16 (198 × 1,100 × 620)	
	Gross			10-13/16 × 45-1/16 × 30-3/8 (274 × 1,145 × 772)	10-13/16 × 52-15/16 × 30-3/8 (274 × 1,345 × 772)	
Weight	Net		lb (kg)	44 (20)	53 (24)	
	Gross			57 (26)	66 (30)	
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (Ø6.35)		
		Gas		Ø1/2 (Ø12.70)		
	Method			Flare		
Drain hose	Material			Polyvinyl chloride		
	Tip diameter		in (mm)	I.D.: Ø1 (Ø25), O.D.: Ø1-1/4 (Ø32)		
Operation range	Cooling		°F (°C)	64 to 90 (18 to 32)		
	Heating		%RH	80 or less		
			°F (°C)	60 to 86 (16 to 30)		
Remote controller type (Option)				Wired, Mobile app*2 (AIRSTAGE Mobile)		
NOTES:						
<div><div>• Protective function might work when using it outside the operation range.</div><div>• *1: Sound pressure level:<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><div>• *2: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual.</div></div>						

2-3. Middle duct type

■ Models: ARUH12KUAS, ARUH18KUAS, and ARUH24KUAS

Type				Duct			
				Inverter, Heat pump			
Model name				ARUH12KUAS	ARUH18KUAS	ARUH24KUAS	
Power supply intake				Outdoor unit			
System power supply		Voltage		208/230			
		Frequency		60			
		Available voltage range		187—253			
Indoor unit power supply (from outdoor unit)				208/230			
Capacity		Btu/h class		12,000	18,000	24,000	
Input power		W		66	62	110	
Running current		A		0.75	1.34	1.60	
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	500 (850)	618 (1,050)	800 (1,360)
			MED		400 (680)	494 (840)	636 (1,080)
			LOW		347 (590)	430 (730)	518 (880)
			QUIET		300 (510)	371 (630)	400 (680)
		Heating	HIGH		500 (850)	618 (1,050)	800 (1,360)
			MED		400 (680)	494 (840)	636 (1,080)
			LOW		347 (590)	430 (730)	518 (880)
			QUIET		300 (510)	371 (630)	400 (680)
	Type × Qty		Sirocco fan × 1		Sirocco fan × 2		
	Motor output		W	154	197		
Static pressure range				inWG (Pa)			
				0.12 to 0.80 (30 to 200)			
Sound pressure level*1		Cooling	HIGH	dB (A)	35	34	36
			MED		30	29	31
			LOW		27	26	28
			QUIET		24		
		Heating	HIGH		35	34	36
			MED		30	29	31
			LOW		27	26	28
			QUIET		24		
Heat exchanger type		Dimensions (H × W × D)		in (mm)	16-9/16 × 18-1/16 × 1-9/16 (420 × 458 × 39.9)	16-9/16 × 29-13/16 × 1-9/16 (420 × 758 × 39.9)	
		Fin pitch		FPI	18		
		Rows × Stages		3 × 20			
		Pipe type		Copper tube			
		Fin type		Aluminum			
Enclosure		Material		Steel sheet			
		Color		—			
Dimensions (H × W × D)		Net		in (mm)	11-13/16 × 27-9/16 × 27-9/16 (300 × 700 × 700)	11-13/16 × 39-3/8 × 27-9/16 (300 × 1,000 × 700)	
		Gross			15-3/4 × 36-15/16 × 34-7/16 (400 × 938 × 875)	15-3/4 × 48-3/4 × 34-7/16 (400 × 1,238 × 875)	
Weight		Net		lb (kg)	66 (30)	90 (41)	93 (42)
		Gross			82 (37)	108 (49)	110 (50)
Connection pipe		Size	Liquid	in (mm)	Ø1/4 (Ø6.35)		
			Gas		Ø3/8 (Ø9.52)	Ø1/2 (Ø12.70)	
Drain port		Method		Flare			
		Material		Polyvinyl chloride			
Drain hose		Tip diameter		in (mm)	I.D.: Ø1 (Ø26), O.D.: Ø1-1/4 (Ø32)		
		Material		Polyvinyl chloride			
Operation range		Tip diameter		in (mm)	I.D.: Ø13/16 (Ø20.7), O.D.: Ø1-1/16 (Ø26.6)		
		Cooling	°F (°C)		64 to 90 (18 to 32)		
			%RH		80 or less		
Remote controller type (Option)		Heating		°F (°C)		60 to 86 (16 to 30)	
Remote controller type (Option)				Wired, Wireless, Mobile app*2 (AIRSTAGE Mobile)			
NOTES:							
• 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: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual.							

2-4. Wall mounted type

■ Models: ASUH07KPAS, ASUH09KPAS, ASUH12KPAS, and ASUH15KPAS

Type				Wall mounted						
				Inverter, Heat pump						
Model name				ASUH07KPAS	ASUH09KPAS	ASUH12KPAS	ASUH15KPAS			
Power supply intake				Outdoor unit						
System power supply		Voltage		208/230						
		Frequency		60						
		Available voltage range		187—253						
Indoor unit power supply (from outdoor unit)				208/230						
Capacity		Btu/h class		7,000	9,000	12,000	15,000			
Input power				W	21.8			30.8		
Running current				A	0.35			0.39		
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	383 (650)		412 (700)		453 (770)	
			MED—HIGH		353 (600)		371 (630)		406 (690)	
			MED		318 (540)		330 (560)		353 (600)	
			MED—LOW		283 (480)		288 (490)		306 (520)	
			LOW		253 (430)				265 (450)	
			QUIET		159 (270)				165 (280)	
		Heating	HIGH		424 (720)		441 (750)		453 (770)	483 (820)
			MED—HIGH		383 (650)		388 (660)		406 (690)	418 (710)
			MED		341 (580)		359 (610)		377 (640)	388 (660)
			MED—LOW		306 (520)		318 (540)		341 (580)	347 (590)
			LOW		271 (460)		277 (470)		306 (520)	
			QUIET		194 (330)				200 (340)	
	Type × Qty		Crossflow fan × 1							
	Motor output		W	30				49		
	Sound pressure level*1	Cooling	HIGH	dB (A)	38		40		43	
			MED—HIGH		36		38		40	
			MED		33		34		35	36
			MED—LOW		31		32		33	
LOW			29				30			
QUIET			21							
Heating		HIGH	41		42			44		
		MED—HIGH	38		39			42		
		MED	35		36		38	39		
		MED—LOW	33		34		35	36		
		LOW	31				33			
		QUIET	22				24			
Heat exchanger type	Dimensions (H × W × D)		in (mm)	Main 1: 8-1/4 × 26-5/16 × 1-1/16 (210 × 668 × 26.6) Main 2: 4-7/16 × 26-5/16 × 13/16 (112 × 668 × 20.0)		Main 1: 8-1/4 × 26-5/16 × 1-1/16 (210 × 668 × 26.6) Main 2: 4-7/16 × 26-5/16 × 13/16 (112 × 668 × 20.0) Sub: 3-5/16 × 26-5/16 × 8/16 (84 × 668 × 13.3)				
	Fin pitch		FPI	Main 1: 21 Main 2: 23		Main 1: 21 Main 2: 23 Sub: 18				
	Rows × Stages			Main 1: 2 × 10 Main 2: 2 × 7		Main 1: 2 × 10 Main 2: 2 × 7 Sub: 1 × 4				
	Pipe type			Copper tube						
Enclosure	Fin type			Aluminum						
	Material			Polystyrene						
	Color			White Approximate color of Munsell N9.25/						
	Dimensions (H × W × D)		in (mm)	10-5/8 × 32-13/16 × 8-3/4 (270 × 834 × 222)						
Weight	Gross			10-7/8 × 36 × 13-1/16 (277 × 914 × 332)						
	Net		lb (kg)	21 (9.5)		22 (10.0)				
Gross		26 (12.0)		29 (13.0)						
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (Ø6.35)						
		Gas		Ø3/8 (Ø9.52)						
Method			Flare							
Drain hose	Material			Polypropylene + High-density polyethylene						
	Tip diameter		in (mm)	I.D.: Ø17/32 (Ø13.8), O.D.: Ø19/32 to Ø21/32 (Ø15.0 to Ø16.8)						
Operation range	Cooling			64 to 90 (18 to 32)						
				80 or less						
	Heating			60 to 86 (16 to 30)						
Remote controller type				Wireless (Option: Wired, Mobile app*2 [AIRSTAGE Mobile])						
NOTES:										
• 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: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual.										

Models: ASUH18KPAS and ASUH24KPAS

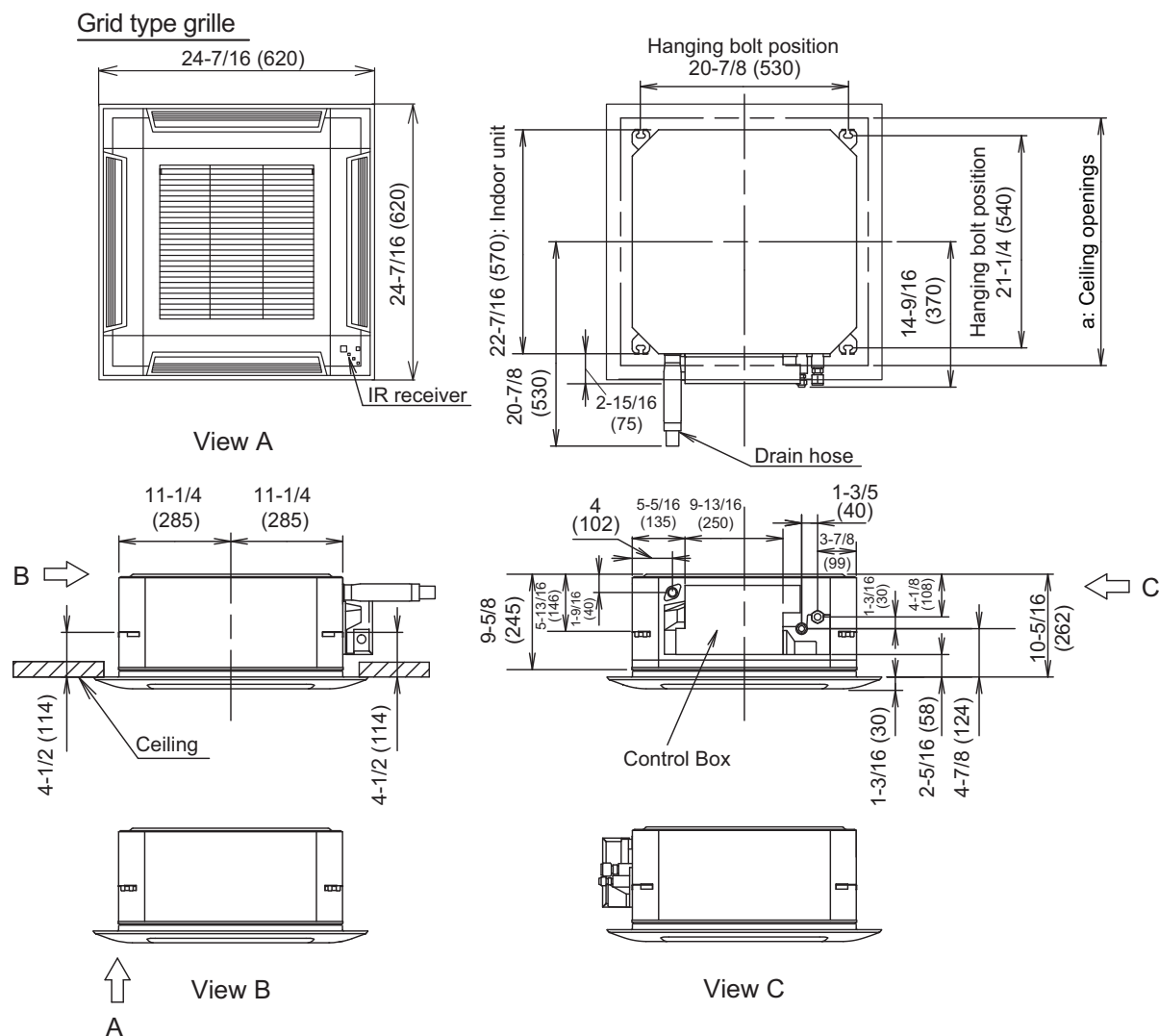
Type				Wall mounted							
				Inverter, Heat pump							
Model name				ASUH18KPAS		ASUH24KPAS					
Power supply intake				Outdoor unit							
System power supply		Voltage		V		208/230					
		Frequency		Hz		60					
		Available voltage range		V		187—253					
Indoor unit power supply (from outdoor unit)				V		208/230					
Capacity				Btu/h class		18,000		24,000			
Input power				W		40		63			
Running current				A		0.35					
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	577 (980)		689 (1,170)				
			MED—HIGH		524 (890)		594 (1,010)				
			MED		477 (810)		500 (850)				
			MED—LOW		424 (720)		436 (740)				
			LOW		377 (640)						
			QUIET		300 (510)						
		Heating	HIGH		600 (1020)		689 (1,170)				
			MED—HIGH		559 (950)		553 (940)				
			MED		500 (850)						
			MED—LOW		436 (740)						
			LOW		377 (640)						
			QUIET		300 (510)						
	Type × Qty				Crossflow fan × 1						
	Motor output		W		59						
Sound pressure level*1	Cooling	HIGH	dB (A)	45		49					
		MED—HIGH		43		45					
		MED		40							
		MED—LOW		37							
		LOW		35							
		QUIET		29							
	Heating	HIGH		46		49					
		MED—HIGH		44							
		MED		40							
		MED—LOW		37							
		LOW		35							
		QUIET		29							
		Heat exchanger type		Dimensions (H × W × D)		in (mm)		Main 1: 8-1/4 × 31-5/16 × 1-1/16 (210 × 796 × 26.6) Main 2: 5-5/16 × 31-5/16 × 13/16 (135 × 796 × 20.0) Sub 1: 3-5/16 × 31-5/16 × 1/2 (84 × 796 × 13.3) Sub 2: 3-5/16 × 31-5/16 × 1/2 (84 × 796 × 13.3)			
				Fin pitch		FPI		Main 1: 21 Main 2: 23 Sub 1: 18 Sub 2: 18			
Rows × Stages					Main 1: 2 × 10 Main 2: 2 × 8 Sub 1: 1 × 4 Sub 2: 1 × 4						
Pipe type					Copper tube						
Fin type					Aluminum						
Material					Polystyrene						
Enclosure	Material				White						
	Color				Approximate color of Munsell N9.25/						
Dimensions (H × W × D)	Net		in (mm)		11 × 38-9/16 × 9-7/16 (280 × 980 × 240)						
	Gross				12-11/16 × 42-7/16 × 13-5/8 (322 × 1,078 × 346)						
Weight	Net		lb (kg)		28 (12.5)						
	Gross				36 (16.5)						
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (Ø6.35)							
		Gas		Ø1/2 (Ø12.70)							
	Method				Flare						
Drain hose	Material				Polypropylene + High-density polyethylene						
	Tip diameter		in (mm)		I.D.: Ø17/32 (Ø13.8), O.D.: Ø19/32 to 21/32 (Ø15.0 to 16.8)						
Operation range	Cooling			°F (°C)		64 to 90 (18 to 32)					
				%RH		80 or less					
	Heating			°F (°C)		60 to 86 (16 to 30)					
Remote controller type				Wireless (Option: Wired, Mobile app*3 [AIRSTAGE Mobile])							
NOTES:											
• 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.											
• *3: Available on Google Play™ store or on App Store®. Optional WLAN Adapter is also required. For details, refer to the setting manual.											

3. Dimensions

3-1. Compact cassette type

■ Models: ACUH07KUAS, ACUH09KUAS, ACUH12KUAS, and ACUH18KUAS

Unit: in (mm)



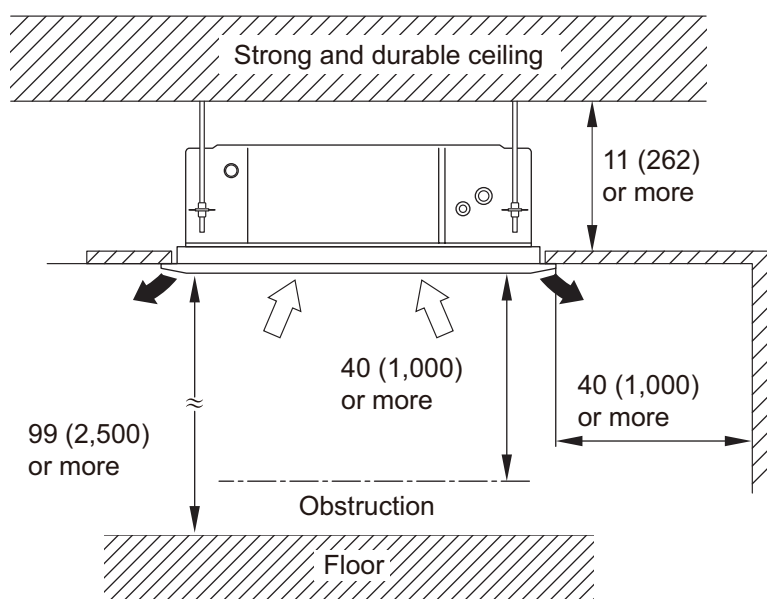
a: Ceiling openings

Cassette grille	Grid type	in (mm)	22-13/16 to 24 (580 to 610)
-----------------	-----------	---------	-----------------------------

■ Installation space requirement

Provide enough clearance for product safety.

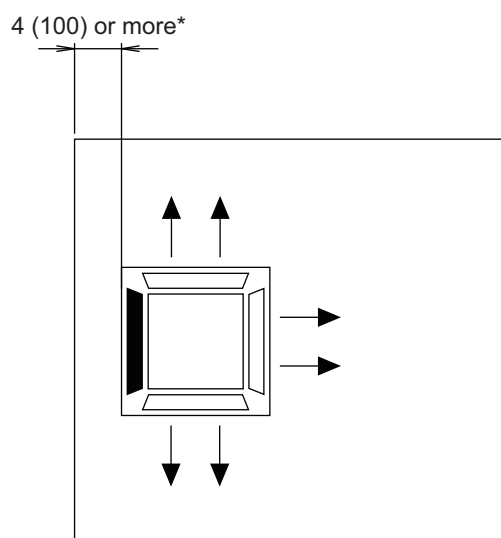
Unit: in (mm)



Ceiling height	Maximum height from floor to ceiling
Standard	107 (2,700)
High ceiling	119 (3,000)

● 3-way direction setting

Unit: in (mm)



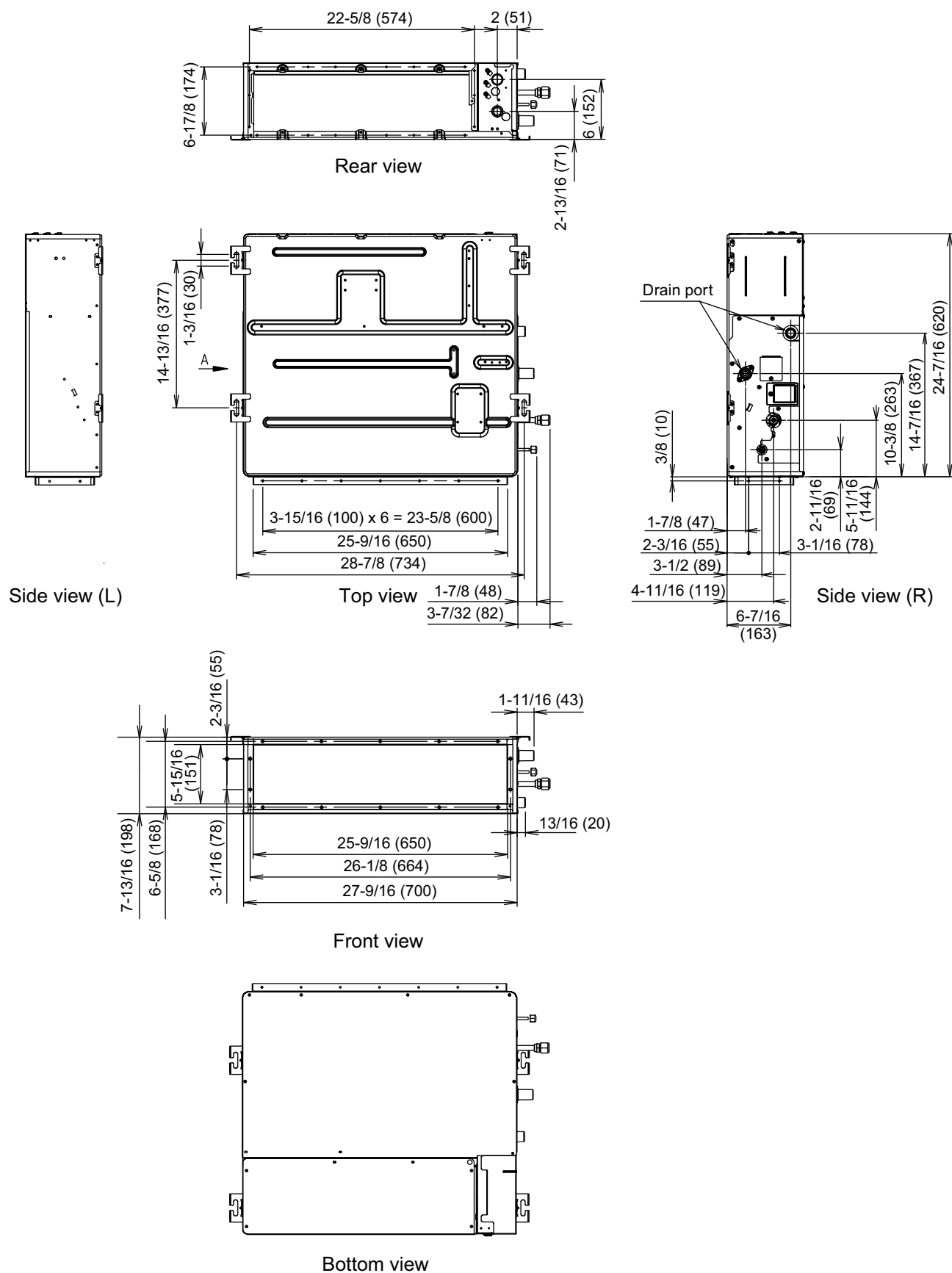
NOTES:

- 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.
- 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.)

3-2. Slim duct type

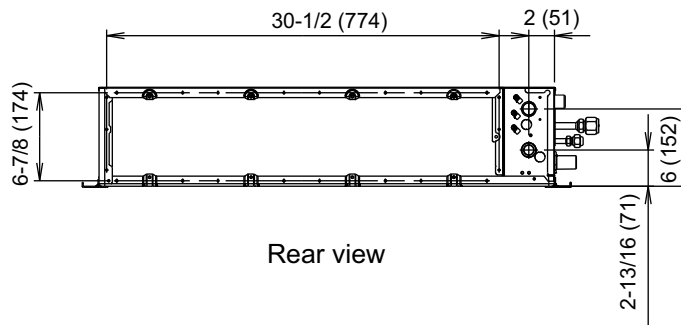
■ Models: ADUH07KUAS, ADUH09KUAS, and ADUH12KUAS

Unit: in (mm)

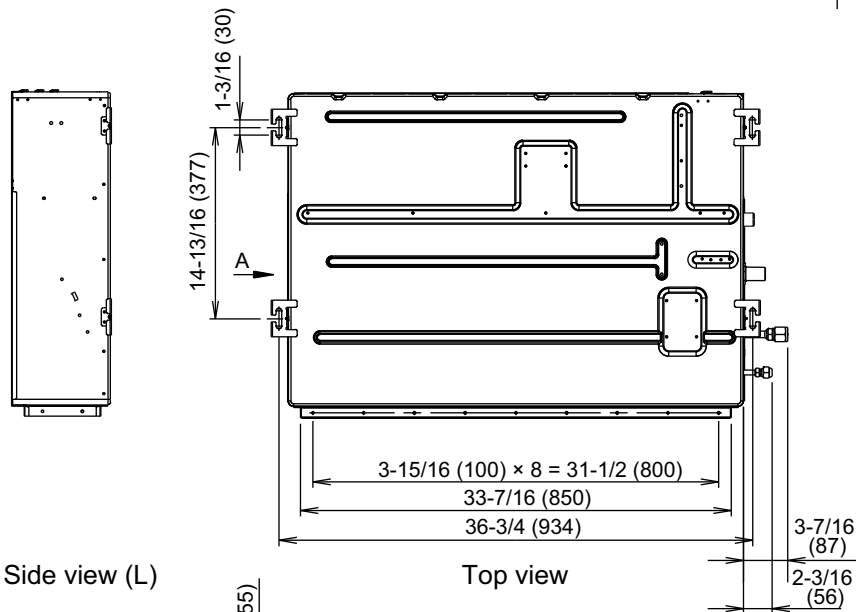


Model: ADUH18KUAS

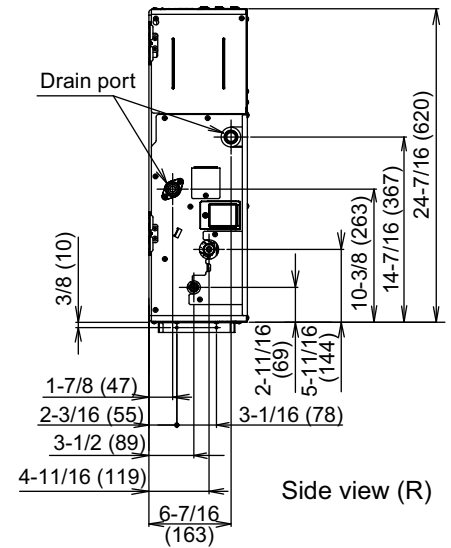
Unit: in (mm)

GENERAL
INFORMATION

Rear view

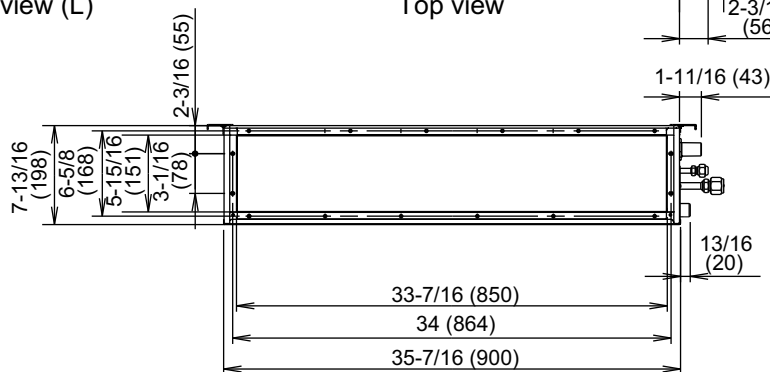


Top view

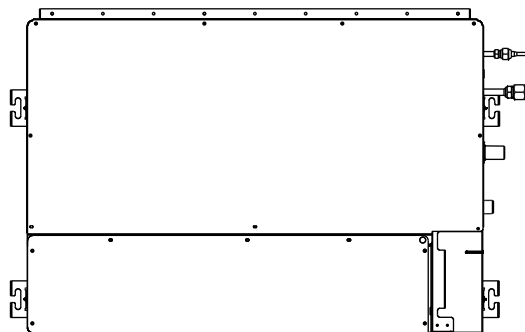


Side view (R)

Side view (L)



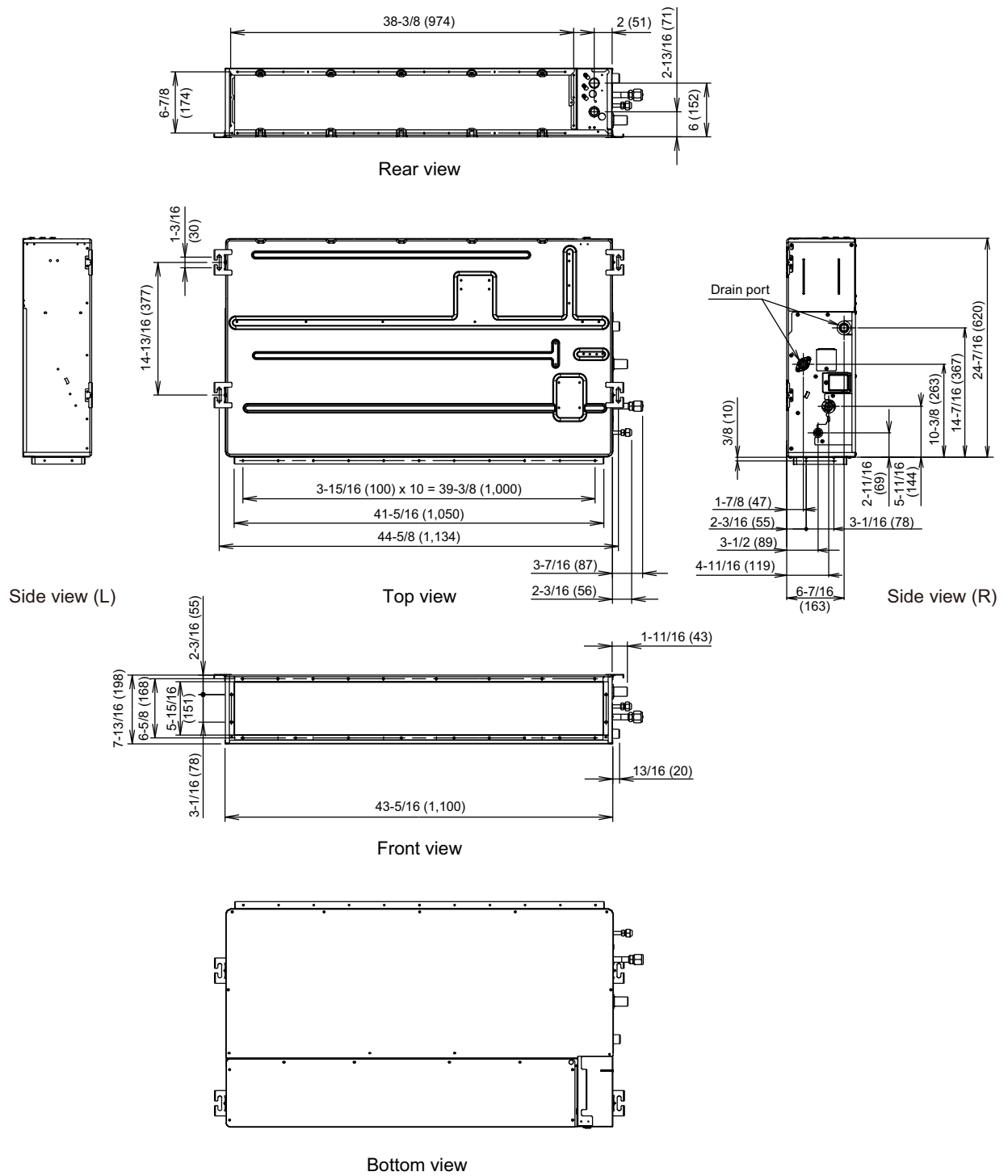
Front view



Bottom view

Model: ADUH24KUAS

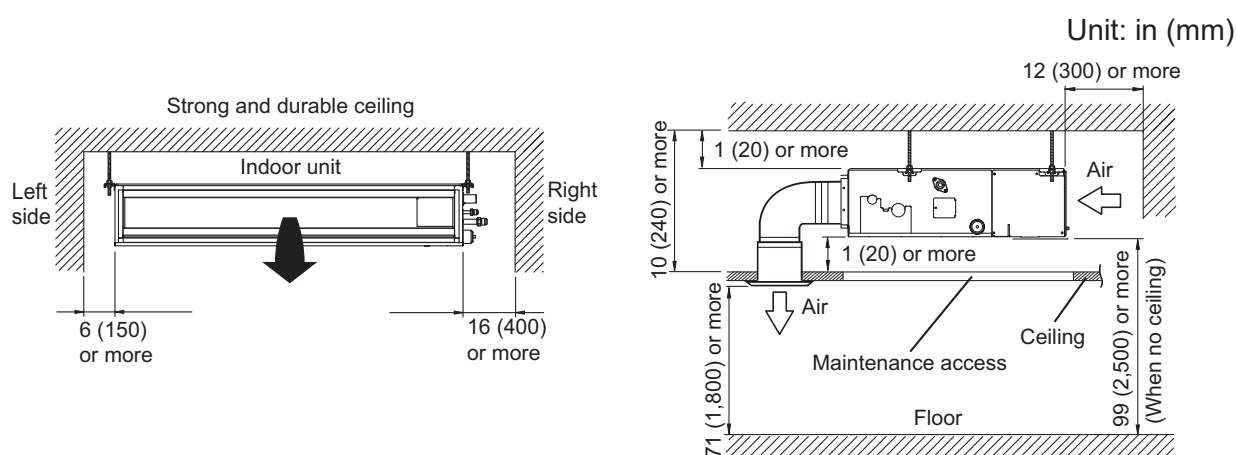
Unit: in (mm)



■ Installation space requirement

Provide enough clearance for product safety.

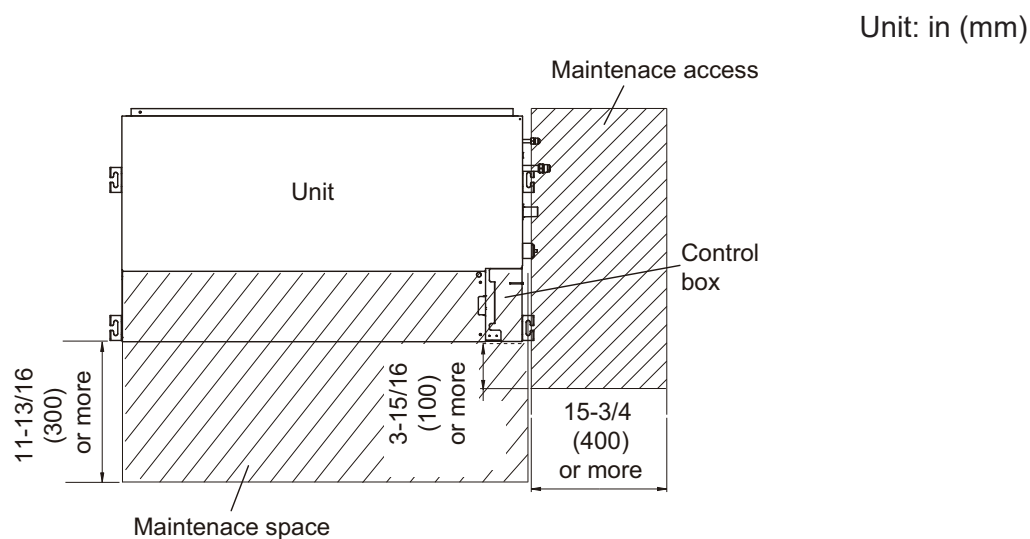
In ceiling-concealed installations:



■ Maintenance space requirement

Provide enough clearance for efficient maintenance.

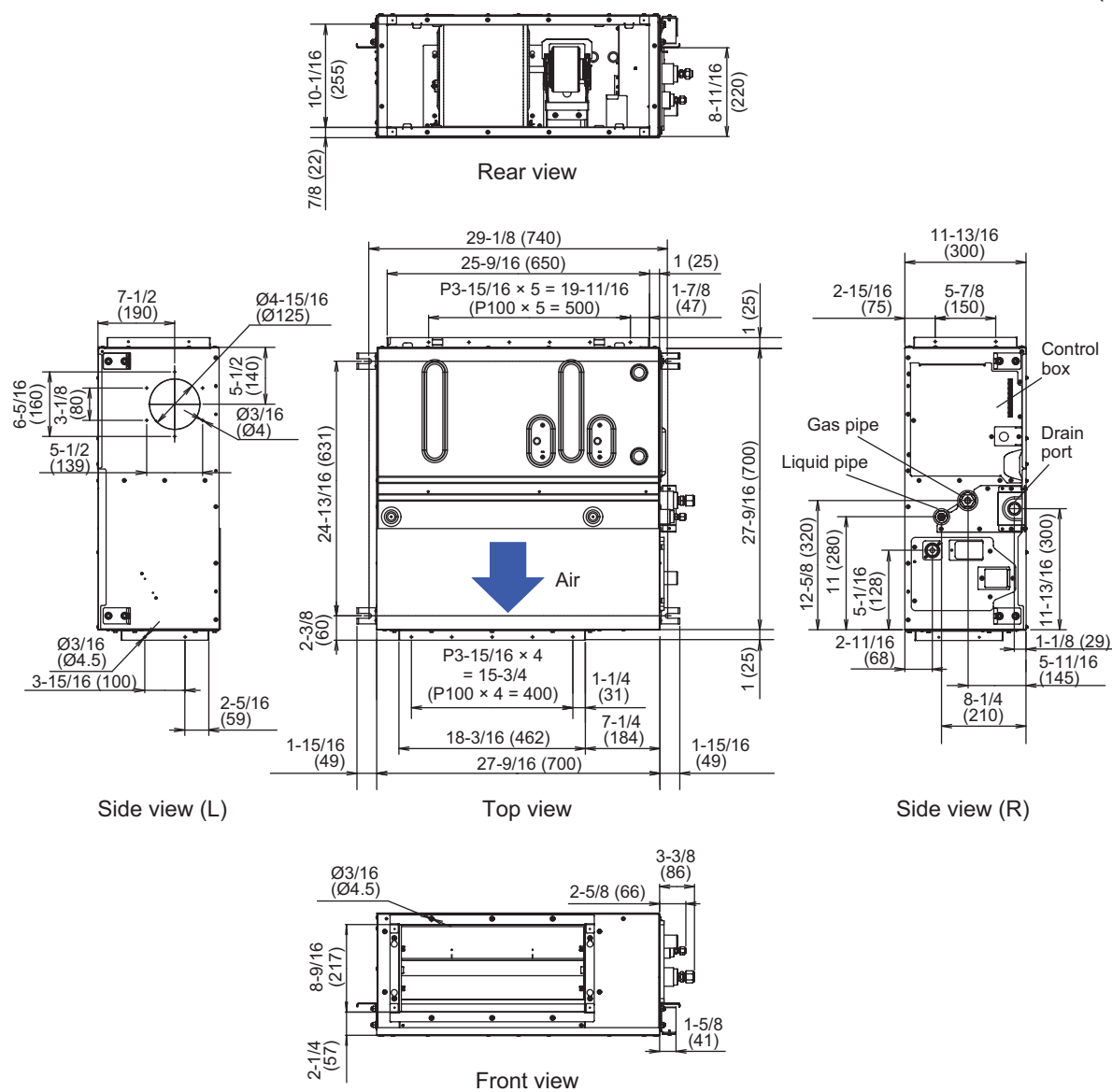
NOTE: Do not place wiring or illumination in the maintenance space, as they impede maintenance work.



3-3. Middle duct type

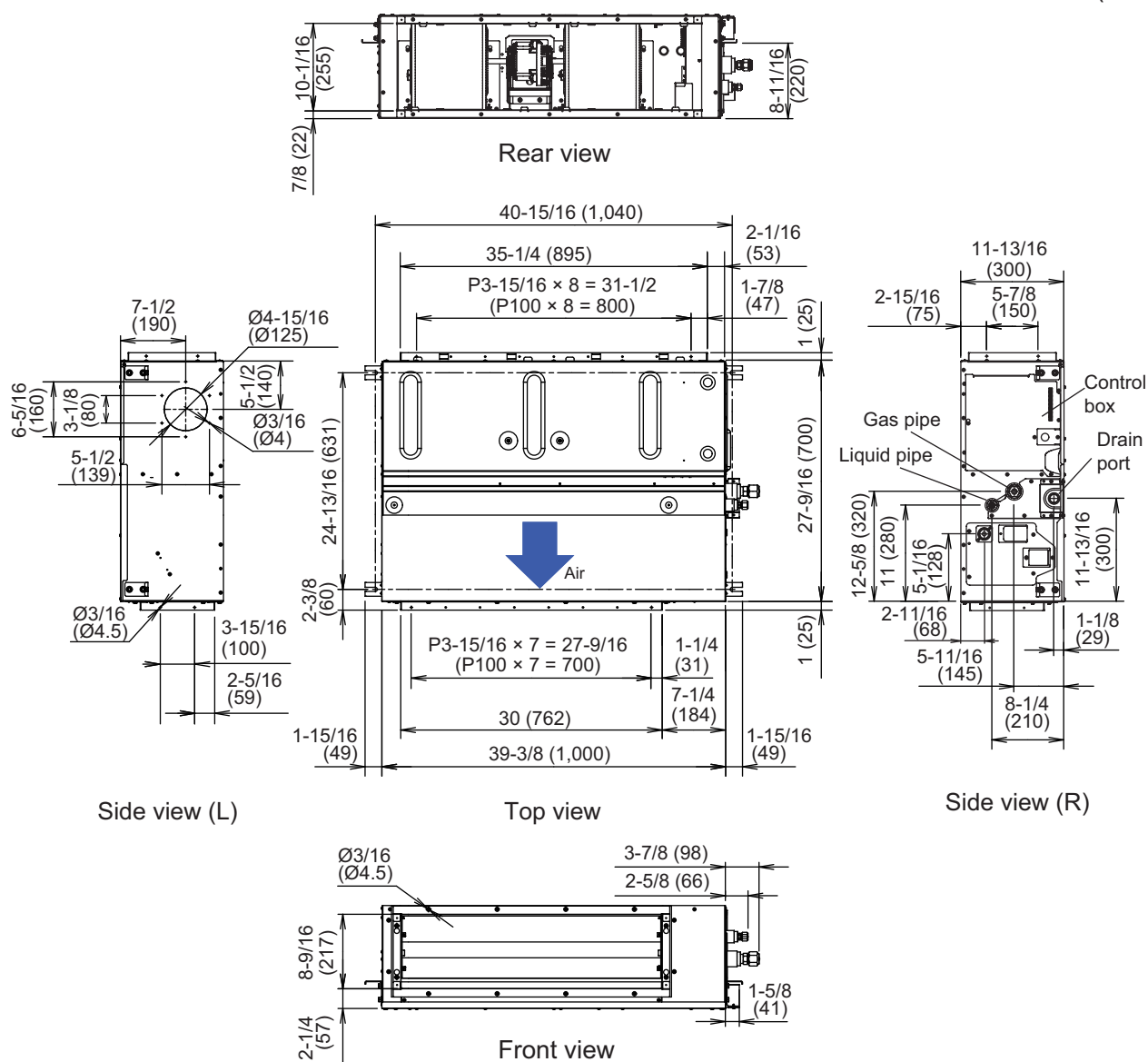
■ Model: ARUH12KUAS

Unit: in (mm)



Models: ARUH18KUAS and ARUH24KUAS

Unit: in (mm)

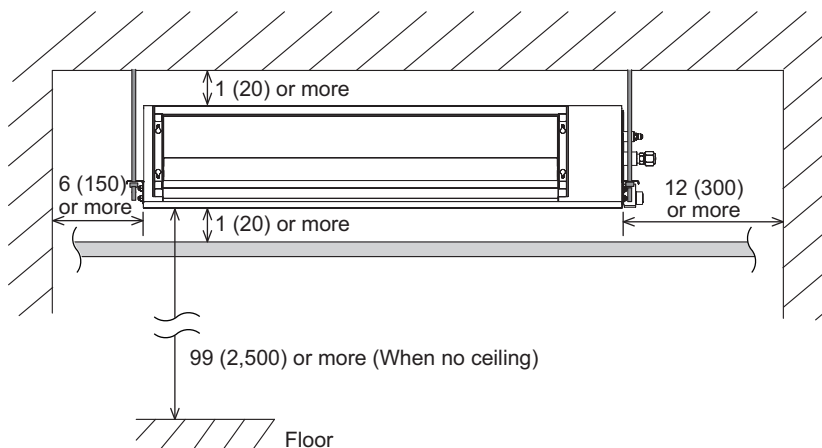


Installation space requirement

Provide enough clearance for product safety.

NOTE: The detailed component shape depends on the model.

Unit: in (mm)



■ Maintenance space requirement

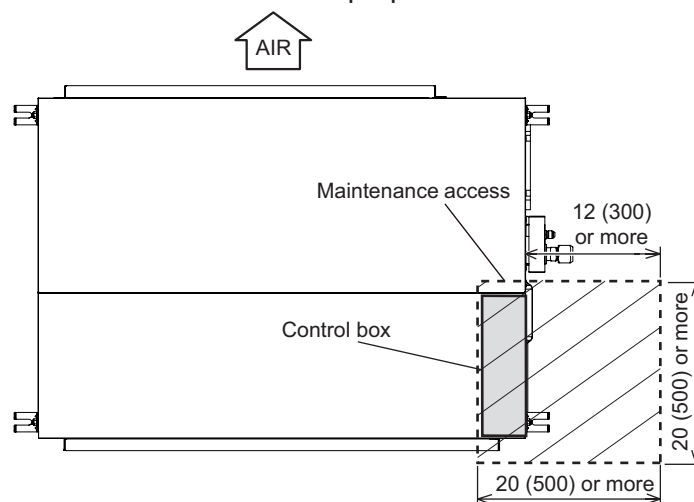
Provide enough clearance for efficient maintenance.

NOTES:

- Do not place wiring or illumination in the maintenance space, as they impede maintenance work.
- The detailed component shape depends on the model.

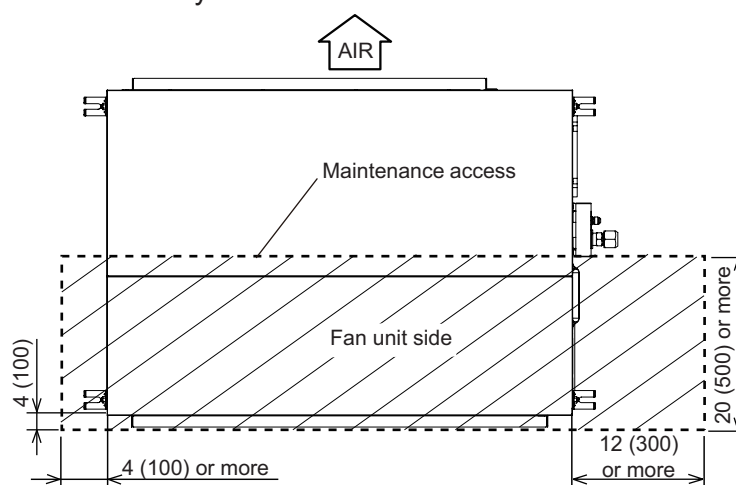
Unit: in (mm)

- Provide a maintenance access for maintenance purposes.



Bottom view

- The maintenance access necessary for fan units and filter maintenance.

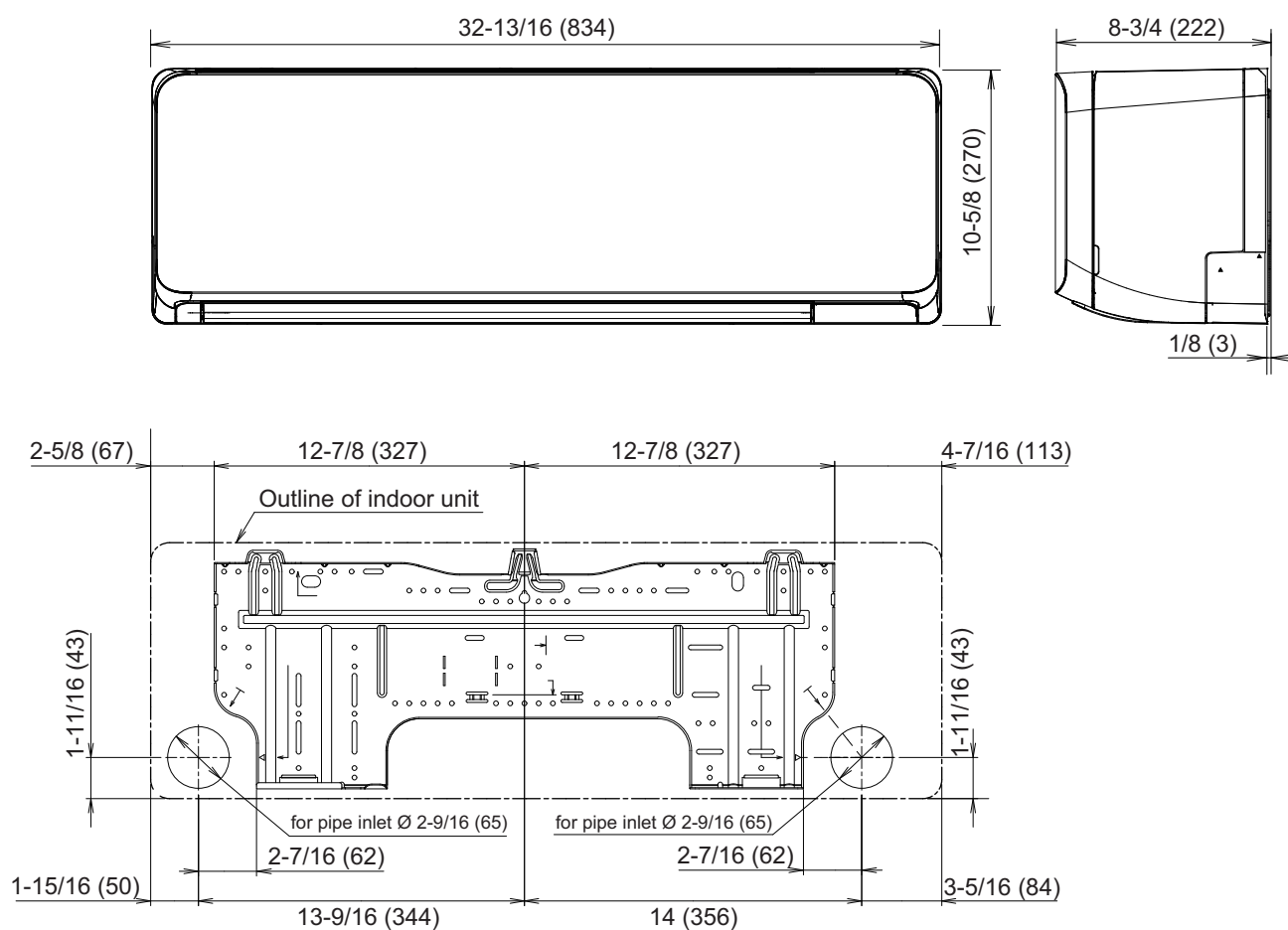


Bottom view

3-4. Wall mounted type

■ Models: ASUH07KPAS, ASUH09KPAS, ASUH12KPAS, and ASUH15KPAS

Unit: in (mm)



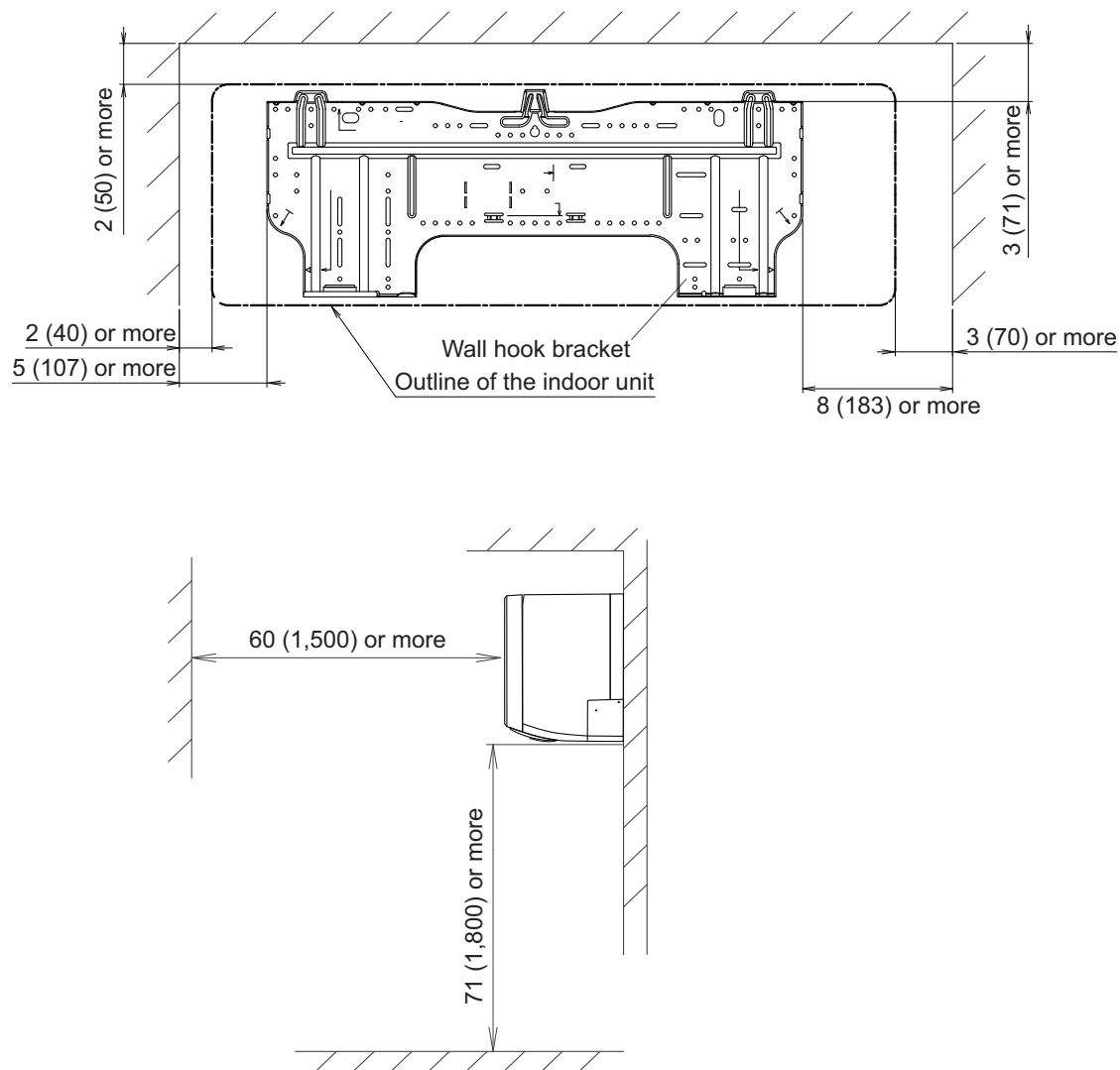
● Installation space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

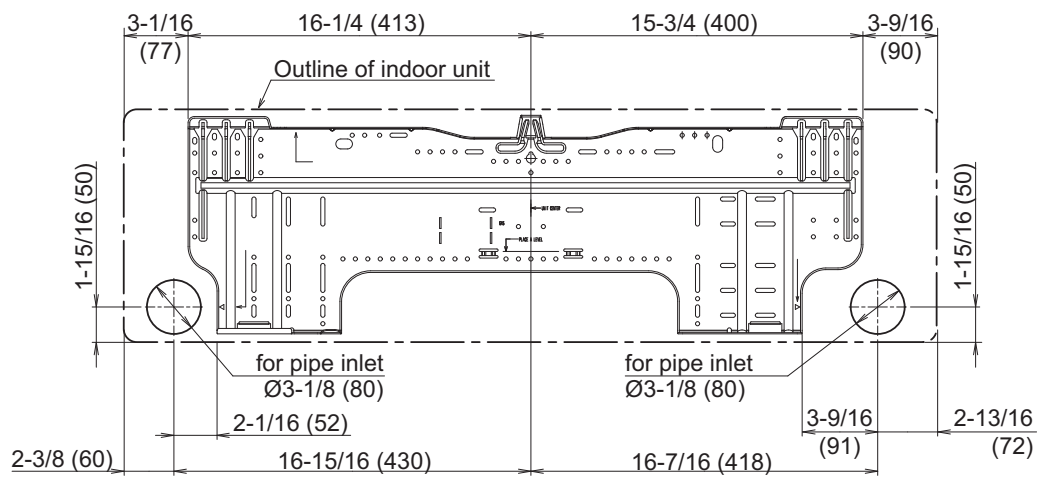
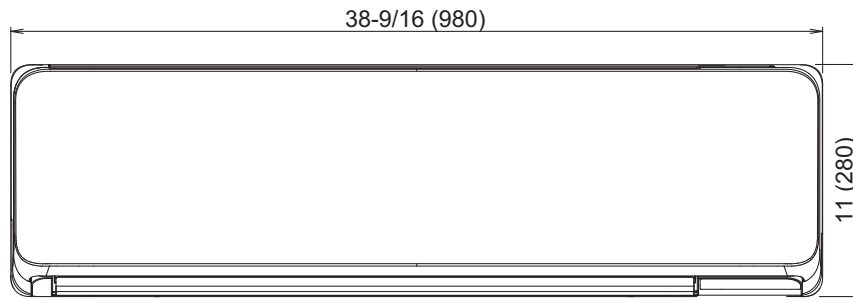
Do not place any other electrical products or household belongings under the product. Condensation dripping from the product might get them wet, and may cause damage or malfunction to the property.

Unit: in (mm)



Models: ASUH18KPAS and ASUH24KPAS

Unit: in (mm)



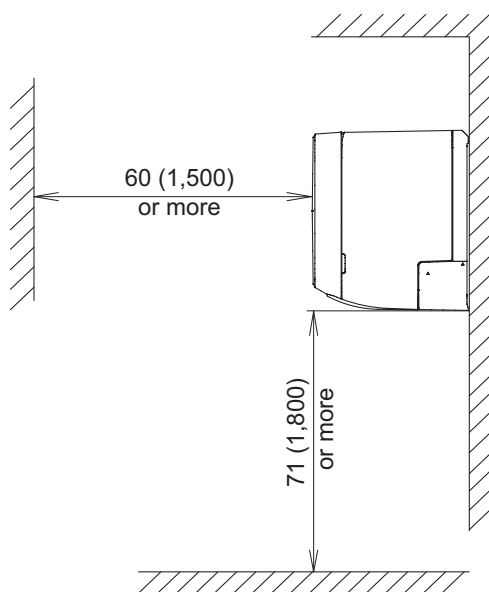
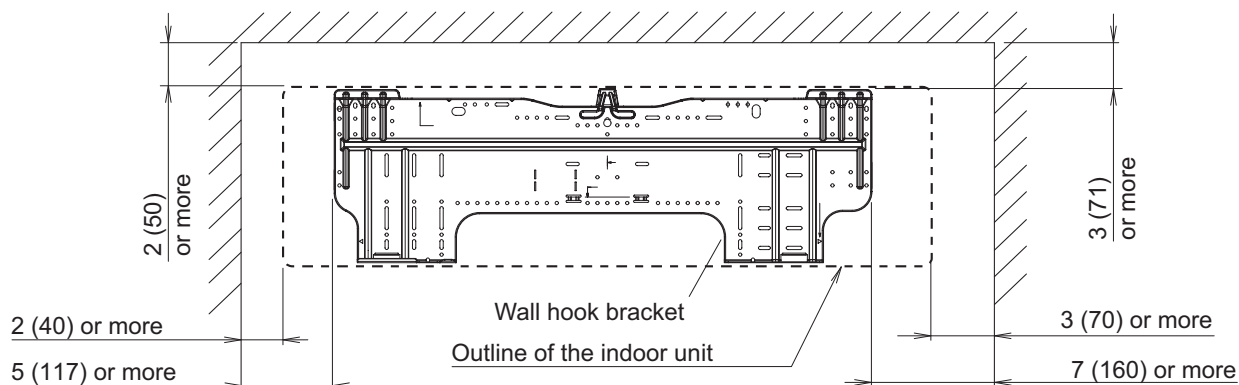
● Installation space requirement

Provide sufficient installation space for product safety.

⚠ CAUTION

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.

Unit: in (mm)

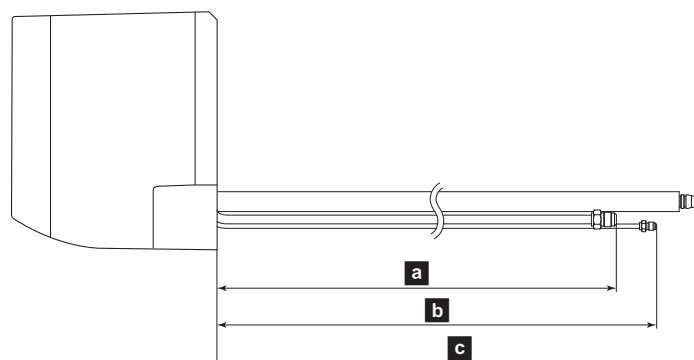


■ Pipe exit length from the rear

Design the system considering the length of the pipes or hose exiting from the rear of the indoor unit.

NOTE: Detailed shapes of the indoor unit and the tip of each pipe or hose may vary depending on the model.

Unit: in (mm)



Model name	Approximate length		
	a Gas pipe	b Liquid pipe	c Drain hose
ASUH07-15KPAS	14-15/16 (380)	16-15/16 (430)	18-7/8 (480)
ASUH18-24KPAS	16-15/16 (430)	19-1/8 (485)	18-1/2 (470)

2. TECHNICAL DATA AND PARTS LIST

CONTENTS

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.

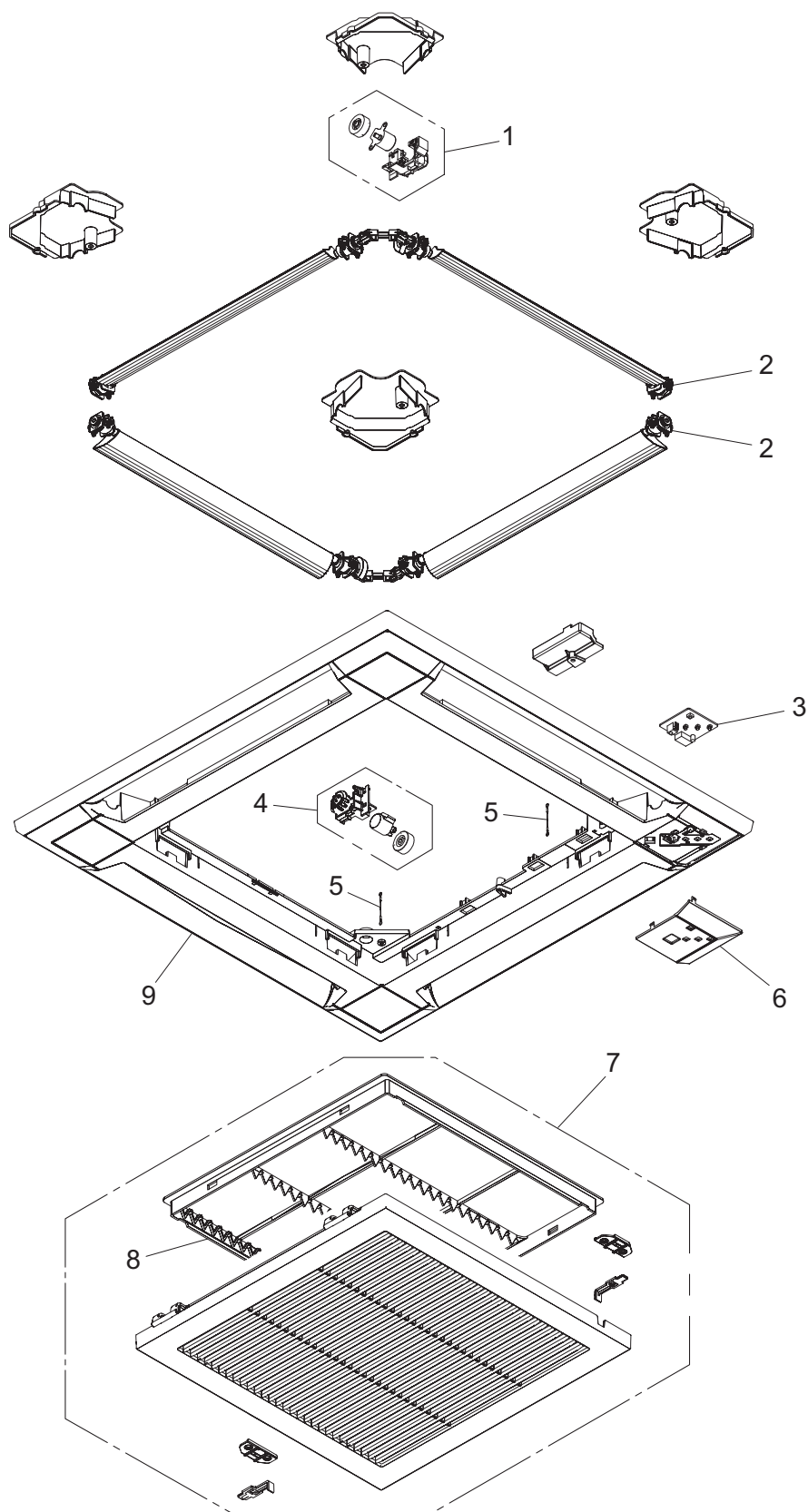
CAUTION

- 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 leak detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres.
 - Ensure that the leak detector 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 (option) parts list

2-1. Model: UTG-CCGFGA

■ Overall



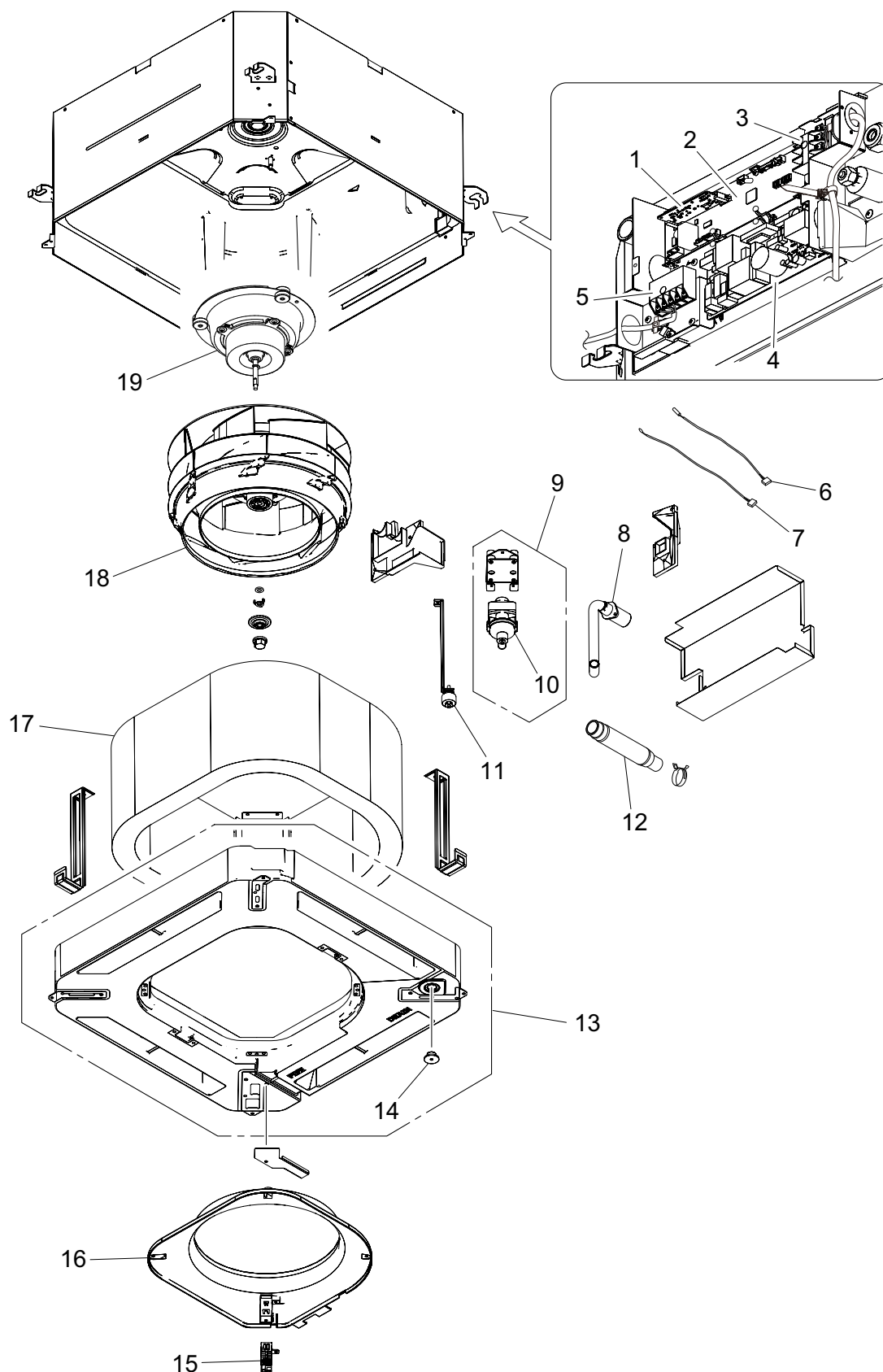
Item no.	Part no.	Part name
1	9375745011	Motor holder assy A
2	9377760043	Flap total assy
3	9711310002	Indicator PCB
4	9375746018	Motor holder assy B
5	9378597013	Hook wire
6	9383100024	Indicator panel assy
7	9382862008	Intake grille assy
8	9375533014	Long-life filter
9	9382821029	Decoration panel
—	9711276001	Wire with connector

3. Indoor unit parts list

3-1. Compact cassette type

■ Models: ACUH07KUAS, ACUH09KUAS, ACUH12KUAS, and ACUH18KUAS

● Chassis

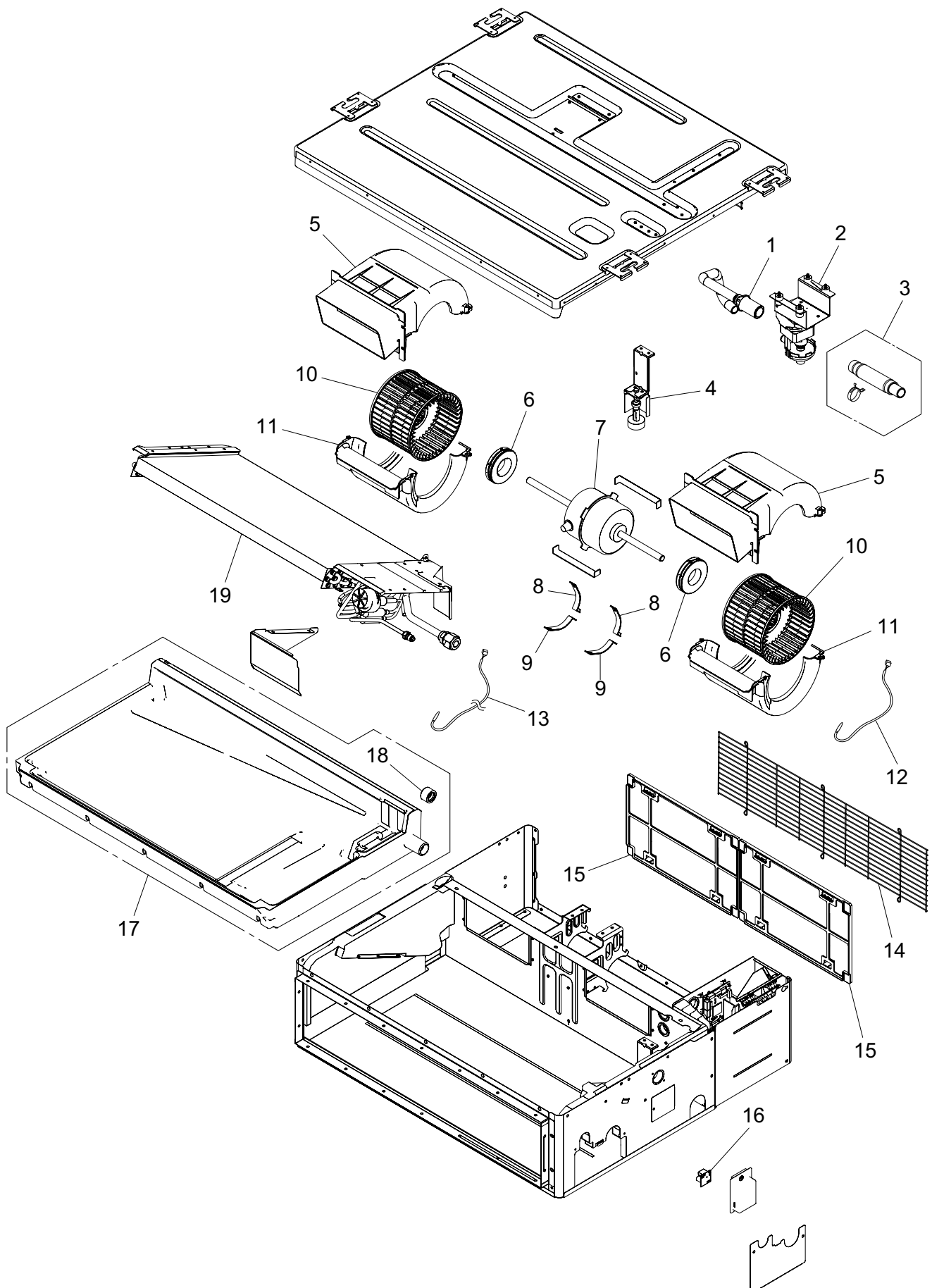


Item no.	Part no.	Part name
1	9710019005	Communication PCB
2	9712270480	Main PCB (07 model)
	9712270299	Main PCB (09 model)
	9712270305	Main PCB (12 model)
	9712270312	Main PCB (18 model)
3	9900568009	Terminal block 3P
4	9712452039	Power supply PCB
5	9900896027	Terminal block 5P
6	9900349028	Thermistor (Pipe temp.)
7	9900826000	Thermistor (Room temp.)
8	9375718015	Drain port sub assy
9	9375717025	Drain pump sub assy
10	9900472030	Pump assy
11	9375721046	Float switch sub assy
12	9379665032	Drain hose
13	9377765024	Drain pan sub assy (07, 09, and 12 models)
	9377765017	Drain pan sub assy (18 model)
14	9375502010	Drain cap
15	9375477011	Thermistor holder
16	9375503017	Bell-mouth hood
17	9375720544	Evaporator sub assy (07 model)
	9375720469	Evaporator sub assy (09 model)
	9375720537	Evaporator sub assy (12 model)
	9375720520	Evaporator sub assy (18 model)
18	9375480011	2-stage turbo fan assy
19	9375719029	Fan motor sub assy
—	9707449013	Wire with connector (CN11 on Main PCB—Stepping motor)
—	9711277008	Wire with connector (CN12 on Main PCB—Stepping motor)
—	9710177088	Wire with connector (CN46 on Main PCB—Terminal block 5P [Ext. in])
—	9711275004	Wire with connector (CN48 on Main PCB—CN1 on Indicator PCB of Cassette Grille)
—	9712283039	Wire with connector (24 model) (CN54 on Main PCB—CN262 on Power supply PCB)
—	9710172007	Wire with connector (CN55 on Main PCB—CN263 on Power supply PCB)
—	9712410046	Wire with connector (24 model) (CN300 on Main PCB—Terminal block [RC])
—	9712510012	Wire with connector (24 model) (CN205 on Power supply PCB—Terminal block 3P)
—	9711278012	Wire with connector (CN520 on Power supply PCB—DC fan motor)

3-2. Slim duct type

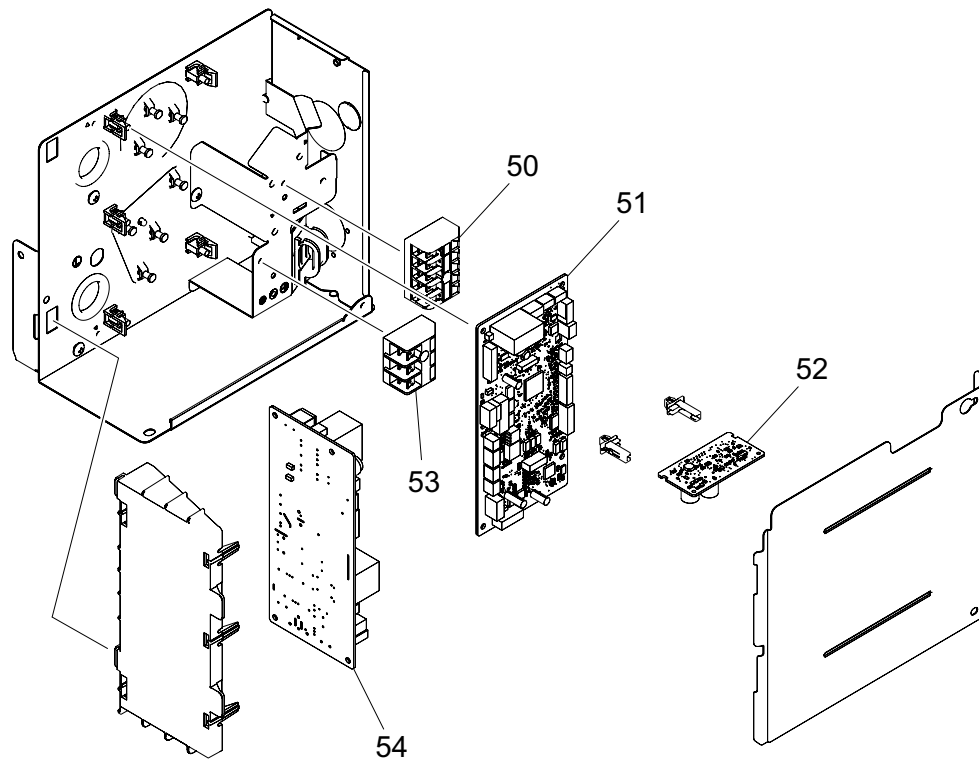
■ Models: ADUH07KUAS, ADUH09KUAS, and ADUH12KUAS

● Chassis and evaporator



Item no.	Part no.	Part name
1	9379913003	Drain hose assy
2	9379914062	Drain pump sub assy
3	9378450141	Hose sub assy
4	9378593039	Float switch sub assy
5	9379571012	Casing (Upper)
6	9379644006	Vibration proof rubber
7	9604027000	DC fan motor (07 model)
	9604222009	DC fan motor (09 and 12 models)
8	9379613002	Motor band assy
9	9379614009	Motor band
10	9379570015	Sirocco fan assy
11	9379572019	Casing (Bottom)
12	9900653019	Thermistor (Room temp.)
13	9900349035	Thermistor (Pipe temp.)
14	9380589006	Fan guard
15	9379574006	Air filter
16	9901269004	Gas sensor
17	9379901161	Drain pan sub assy
18	9358746004	Drain cap
19	9380682769	Evaporator total assy (07 model)
	9380682776	Evaporator total assy (09 and 12 models)

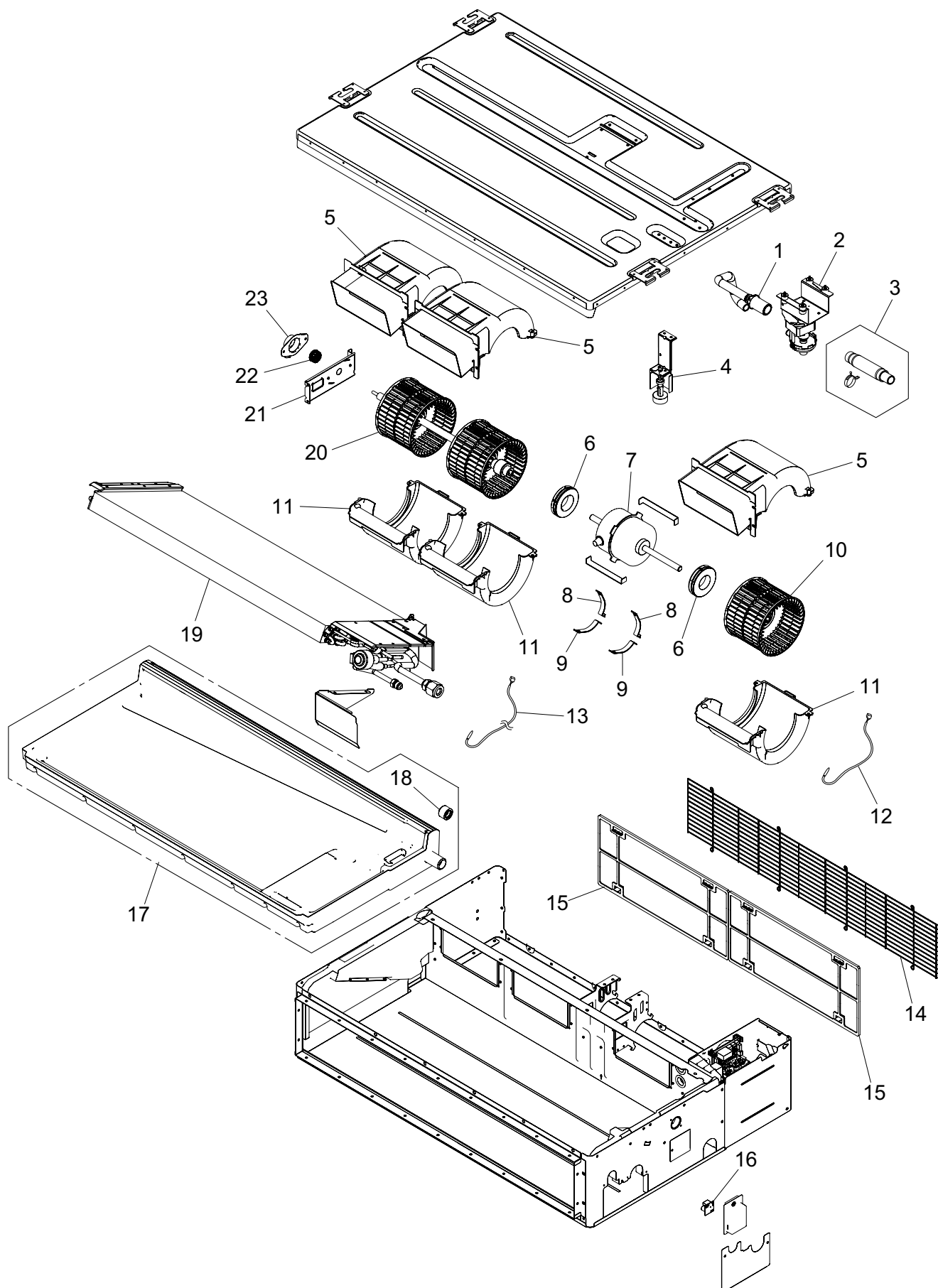
● Control unit



Item no.	Part no.	Part name
50	9900896027	Terminal block 5P
51	9712719002	Main PCB (07 model)
	9712719019	Main PCB (09 model)
	9712719026	Main PCB (12 model)
52	9710019005	Communication PCB
53	9900568009	Terminal block 3P
54	9712452039	Power supply PCB
—	9710177057	Wire with connector (CN46 on Main PCB—1 and 2 on Terminal block 5P)
—	9712283091	Wire with connector (CN260 on Main PCB—CN262 on Power supply PCB)
—	9710206047	Wire with connector (CN261 on Main PCB—CN263 on Power supply PCB)
—	9712410015	Wire with connector (CN300 on Main PCB—Y1 and Y2 on Terminal block 5P)
—	9712510029	Wire with connector (CN205 on Power supply PCB—Terminal block 3P)
—	9712575004	Wire with connector (CN15 on Main PCB—Gas sensor)
—	9711199003	Wire with terminal (P260 on Main PCB—GND and T202 on Power supply PCB—GND)

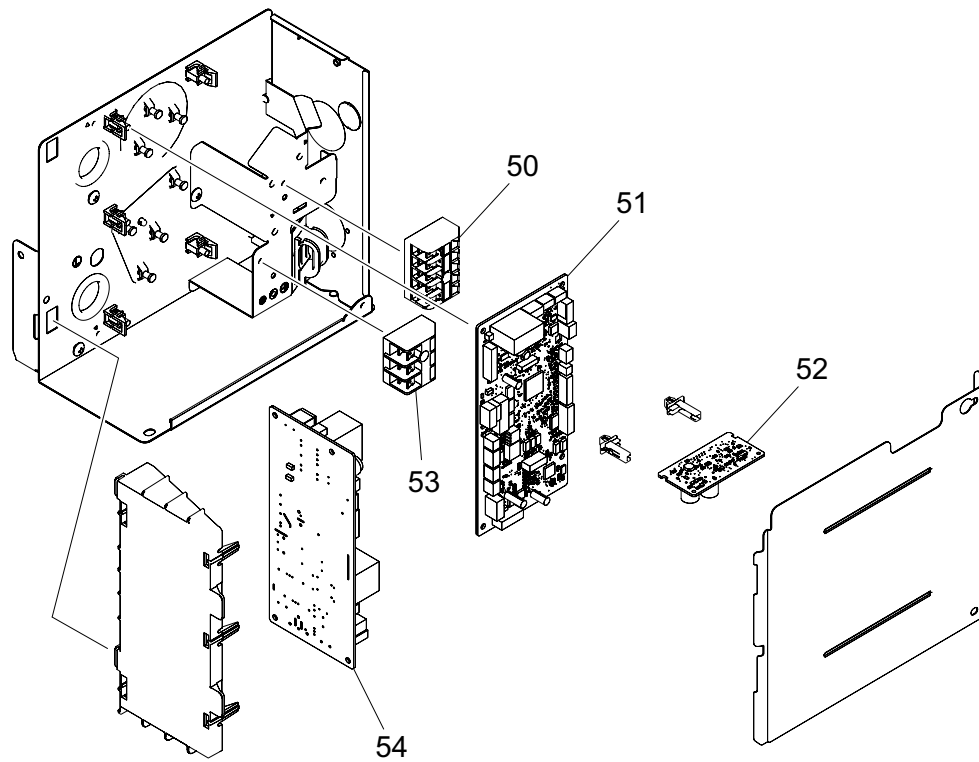
Model: ADUH18KUAS

● Chassis and evaporator



Item no.	Part no.	Part name
1	9379913003	Drain hose assy
2	9379914062	Drain pump sub assy
3	9378450141	Hose sub assy
4	9378593039	Float switch sub assy
5	9379571012	Casing (Upper)
6	9379644006	Vibration proof rubber
7	9604025006	DC fan motor
8	9379613002	Motor band assy
9	9379614009	Motor band
10	9379570022	Sirocco fan assy
11	9379572019	Casing (Bottom)
12	9900653019	Thermistor (Room temp.)
13	9900349035	Thermistor (Pipe temp.)
14	9380590002	Fan guard
15	9379575003	Air filter
16	9901269004	Gas sensor
17	9379901178	Drain pan sub assy
18	9358746004	Drain cap
19	9380682783	Evaporator total assy
20	9379971065	Sirocco fan sub assy
21	9380612001	Bearing holder
22	9357921006	Bearing B assy
23	9379615006	Bearing bracket

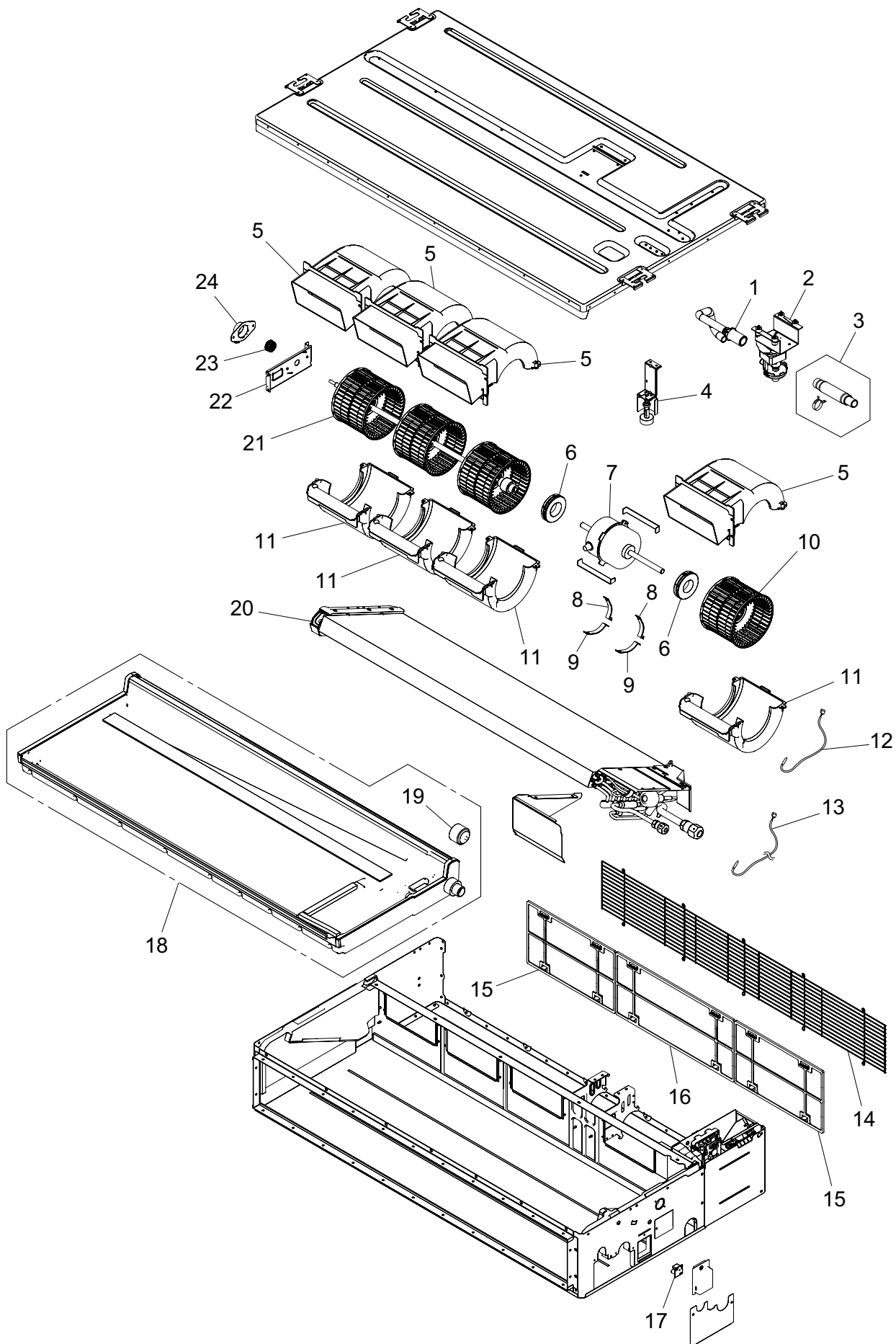
● Control unit



Item no.	Part no.	Part name
50	9900896027	Terminal block 5P
51	9712719033	Main PCB
52	9710019005	Communication PCB
53	9900568009	Terminal block 3P
54	9712452039	Power supply PCB
—	9710177057	Wire with connector (CN46 on Main PCB—1 and 2 on Terminal block 5P)
—	9712283091	Wire with connector (CN260 on Main PCB—CN262 on Power supply PCB)
—	9710206047	Wire with connector (CN261 on Main PCB—CN263 on Power supply PCB)
—	9712410015	Wire with connector (CN300 on Main PCB—Y1 and Y2 on Terminal block 5P)
—	9712510029	Wire with connector (CN205 on Power supply PCB—Terminal block 3P)
—	9712575004	Wire with connector (CN15 on Main PCB—Gas sensor)
—	9711199003	Wire with terminal (P260 on Main PCB—GND and T202 on Power supply PCB—GND)

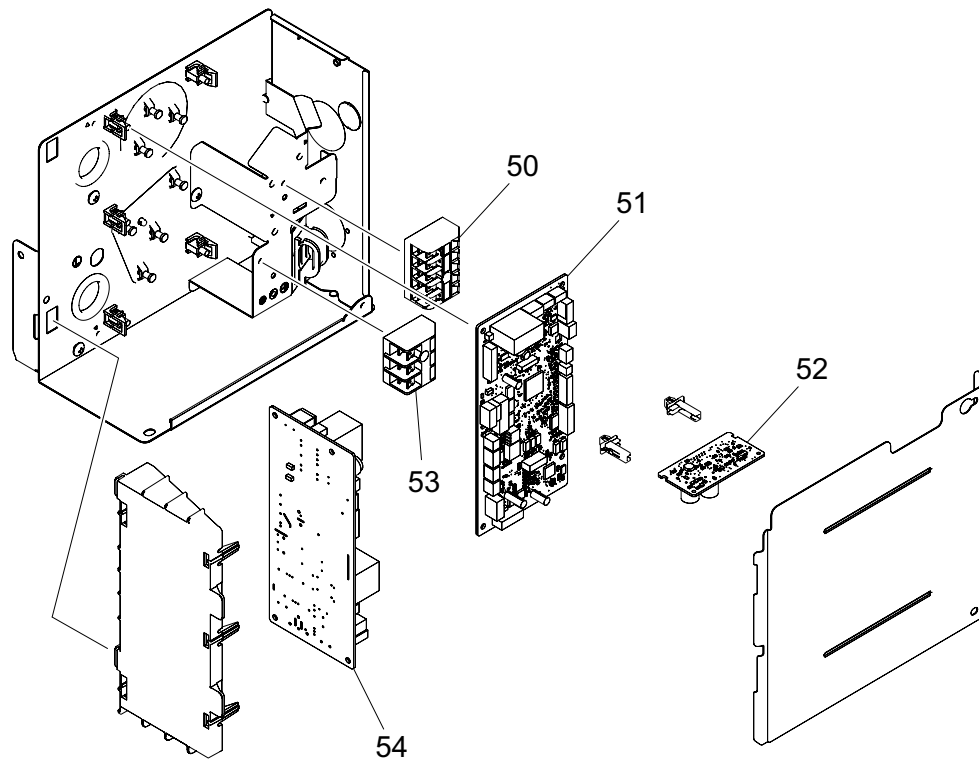
Model: ADUH24KUAS

Chassis and evaporator



Item no.	Part no.	Part name
1	9379913003	Drain hose assy
2	9379914062	Drain pump sub assy
3	9378450141	Hose sub assy
4	9378593039	Float switch sub assy
5	9379571012	Casing (Upper)
6	9379644006	Vibration proof rubber
7	9604025006	DC fan motor
8	9379613002	Motor band assy
9	9379614009	Motor band
10	9379570022	Sirocco fan assy
11	9379572019	Casing (Bottom)
12	9900653019	Thermistor (Room temp.)
13	9900349035	Thermistor (Pipe temp.)
14	9380591009	Fan guard
15	9379574006	Air filter
16	9379575003	Air filter
17	9901269004	Gas sensor
18	9379901185	Drain pan sub assy
19	9358746004	Drain cap
20	9380682790	Evaporator total assy
21	9379971072	Sirocco fan sub assy
22	9380612001	Bearing holder
23	9357921006	Bearing B assy
24	9379615006	Bearing bracket

● Control unit

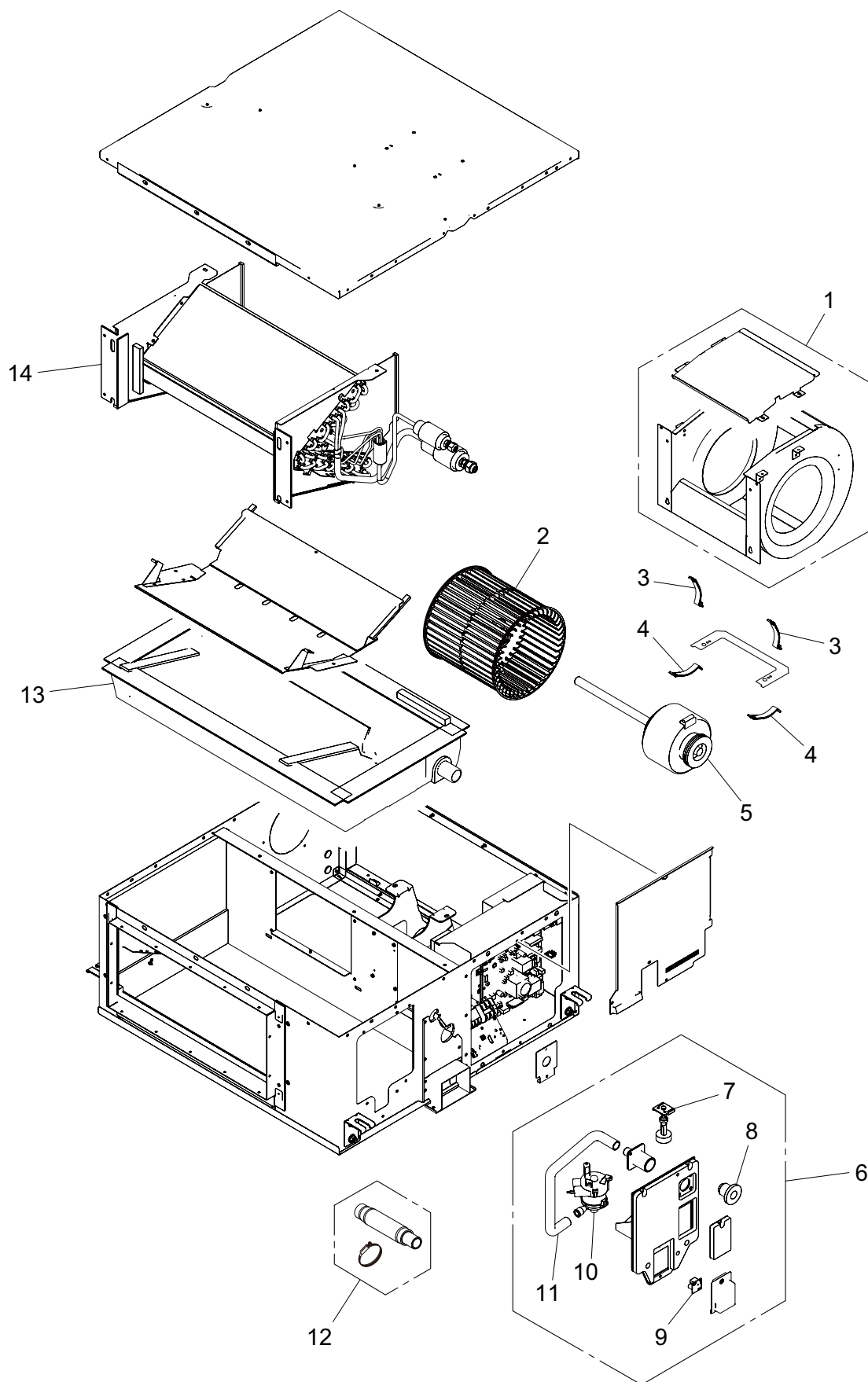


Item no.	Part no.	Part name
50	9900896027	Terminal block 5P
51	9712719040	Main PCB
52	9710019005	Communication PCB
53	9900568009	Terminal block 3P
54	9712452039	Power supply PCB
—	9710177057	Wire with connector (CN46 on Main PCB—1 and 2 on Terminal block 5P)
—	9712283091	Wire with connector (CN260 on Main PCB—CN262 on Power supply PCB)
—	9710206047	Wire with connector (CN261 on Main PCB—CN263 on Power supply PCB)
—	9712410015	Wire with connector (CN300 on Main PCB—Y1 and Y2 on Terminal block 5P)
—	9712510029	Wire with connector (CN205 on Power supply PCB—Terminal block 3P)
—	9712575004	Wire with connector (CN15 on Main PCB—Gas sensor)
—	9711199003	Wire with terminal (P260 on Main PCB—GND and T202 on Power supply PCB—GND)

3-3. Middle duct type

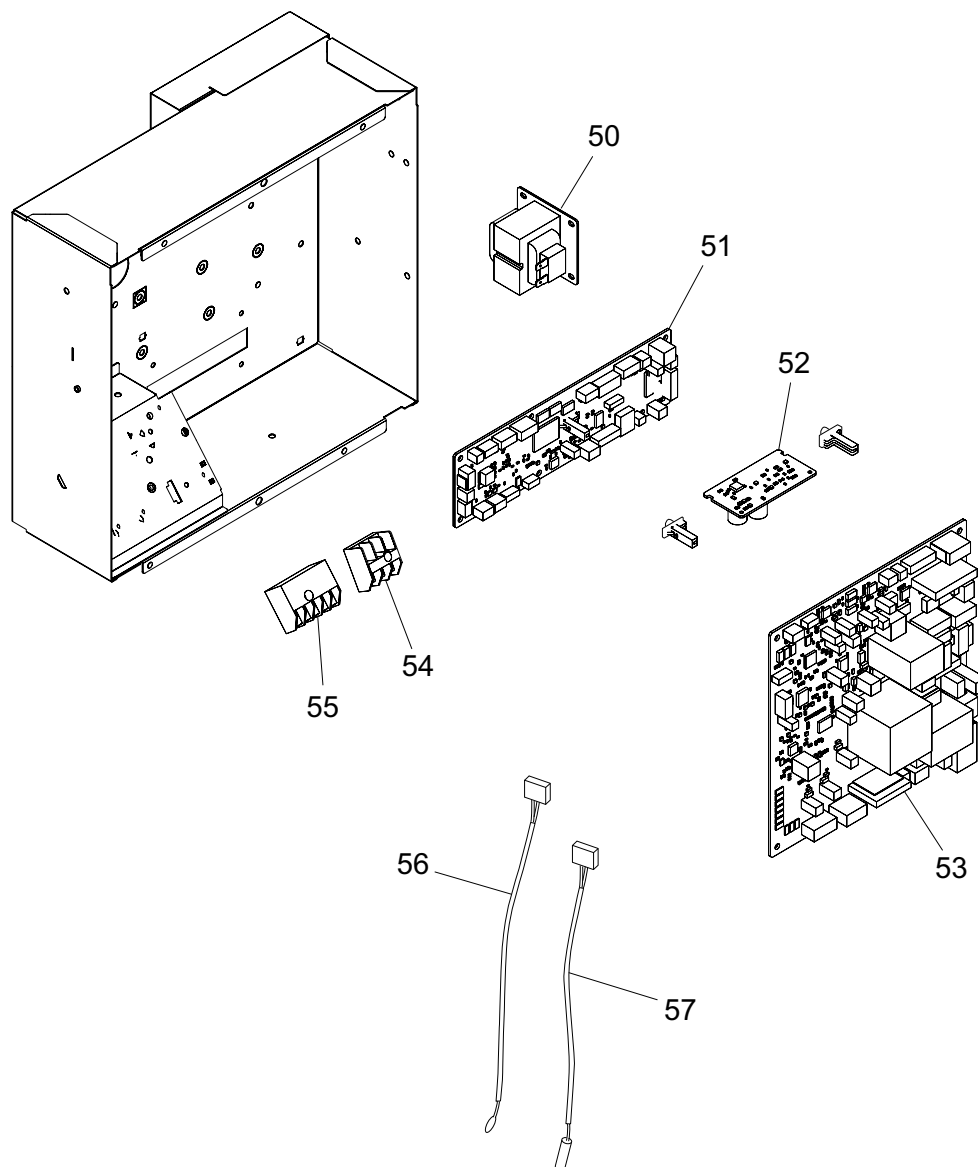
■ Model: ARUH12KUAS

● Chassis



Item no.	Part no.	Part name
1	9381829033	Casing sub assy
2	9383695001	Sirocco fan assy
3	9381597000	Motor band assy
4	9380521006	Motor band B
5	9603694012	DC fan motor
6	9381766055	Drain pump sub assy
7	9900465070	Float switch
8	9381578009	Drain cap
9	9901269004	Gas sensor
10	9900890018	Pump assy
11	9361763005	Drain hose
12	9378450219	Hose sub assy
13	9381752072	Drain pan sub assy
14	9383816512	Evaporator total assy

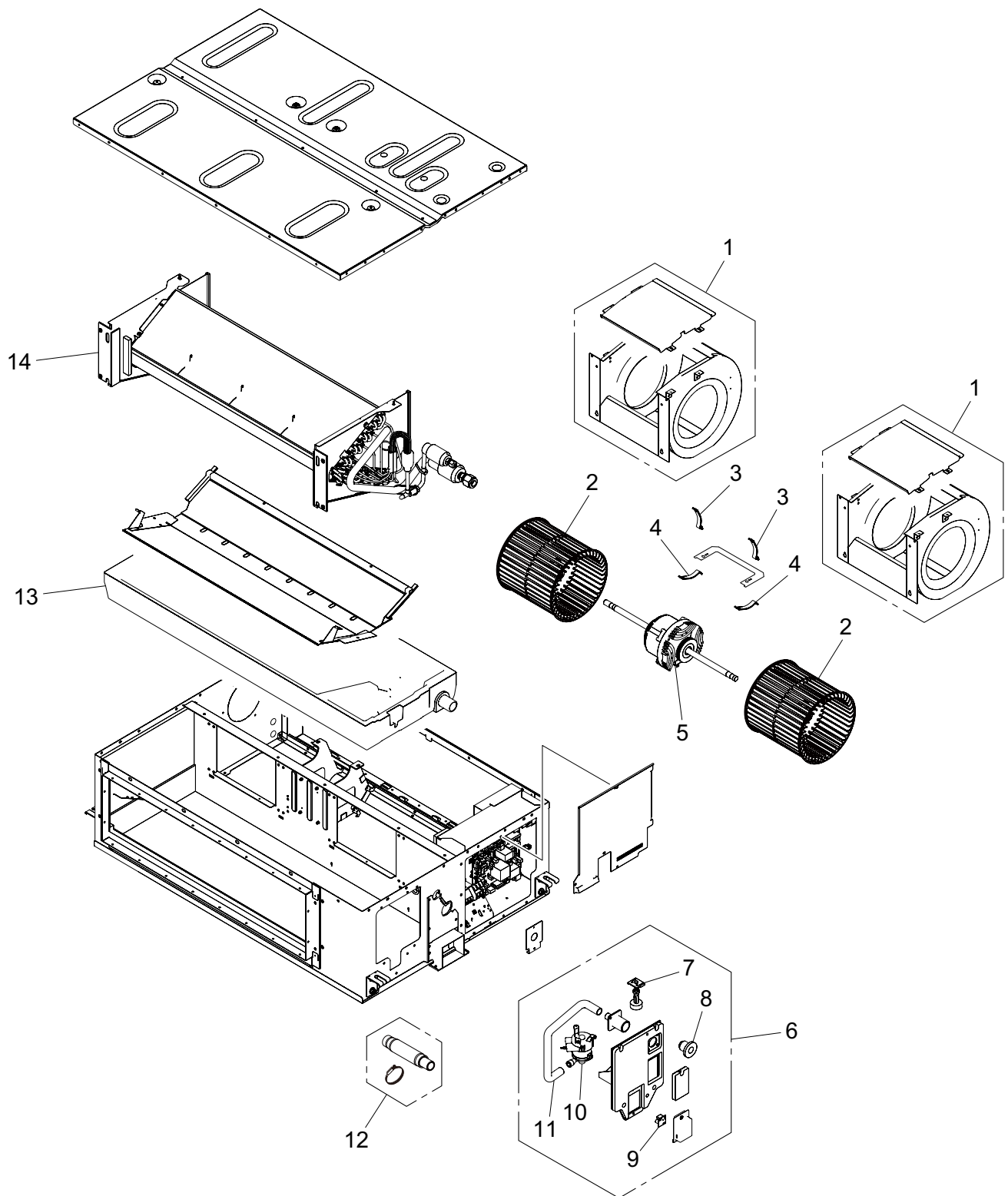
● Control unit



Item no.	Part no.	Part name
50	9900921019	Reactor assy
51	9712721005	Main PCB
52	9710019005	Communication PCB
53	9712695009	Power supply PCB
54	9900568009	Terminal block 3P (Power)
55	9901150012	Terminal block 5P (Remote)
56	9703299278	Thermistor (Room temp.)
57	9900892005	Thermistor (Pipe temp.)
—	9712575004	Wire with connector (CN15 on Main PCB—Gas sensor)
—	9710177033	Wire with connector (CN46 on Main PCB—Terminal block 5P [EX.IN])
—	9712283084	Wire with connector (CN54 on Main PCB—CN303 on Power supply PCB)
—	9710206030	Wire with connector (CN55 on Main PCB—CN304 on Power supply PCB)
—	9712284029	Wire with connector (CN66 on Main PCB—CN410 on Power supply PCB)
—	9712410060	Wire with connector (CN300 on Main PCB—Y1 and Y2 on Terminal block 5P)
—	9712510036	Wire with connector (CN300 on Power supply PCB—Terminal block 3P)
—	9710161018	Wire with connector (CN302 on Power supply PCB—Reactor)

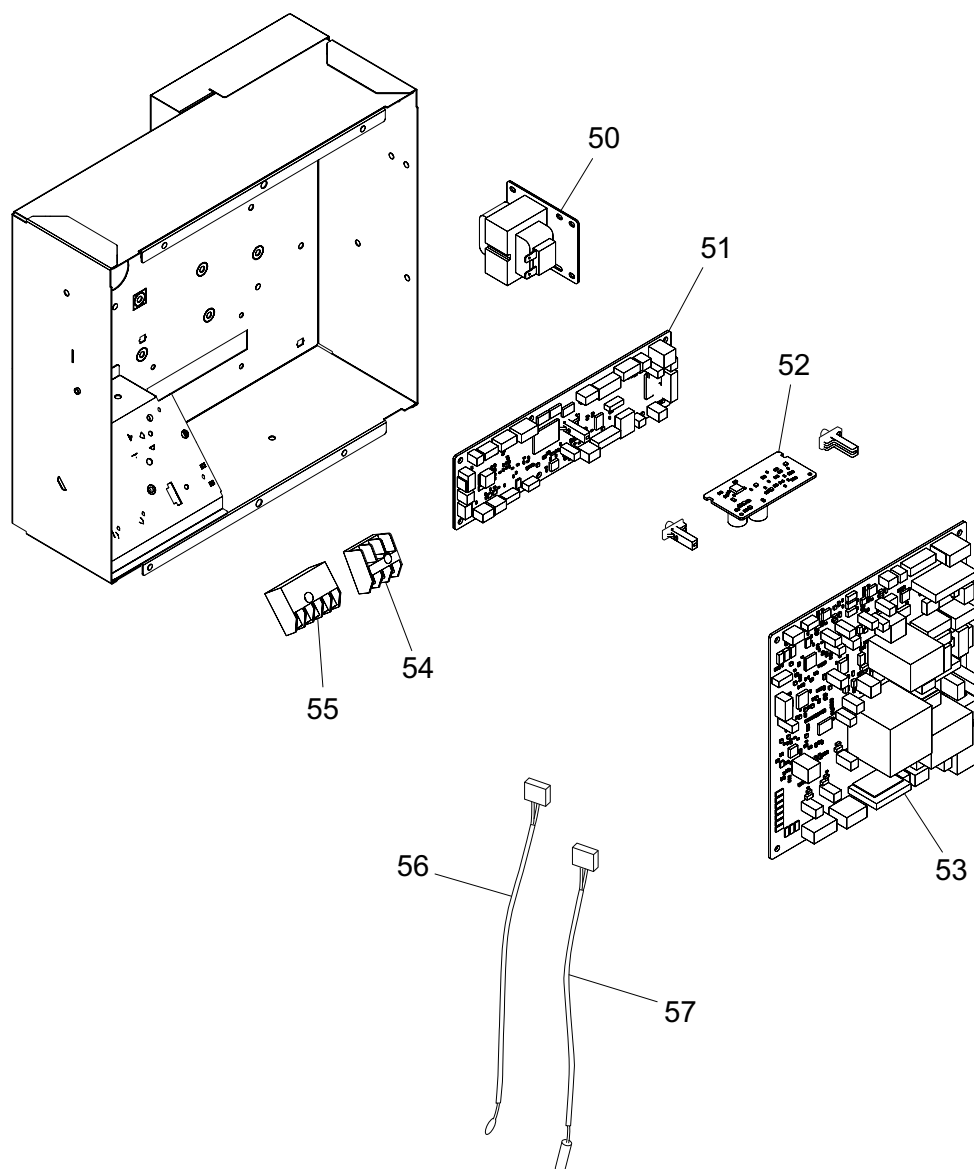
Models: ARUH18KUAS and ARUH24KUAS

● Chassis



Item no.	Part no.	Part name
1	9381829033	Casing sub assy
2	9383695001	Sirocco fan assy
3	9381597000	Motor band assy
4	9381513000	Motor band A
5	9603695019	DC fan motor
6	9381766055	Drain pump sub assy
7	9900465070	Float switch
8	9381578009	Drain cap
9	9901269004	Gas sensor
10	9900890018	Pump assy
11	9361763005	Drain hose
12	9378450219	Hose sub assy
13	9381752089	Drain pan sub assy
14	9383816529	Evaporator total assy (18 model)
	9383816536	Evaporator total assy (24 model)

● Control unit

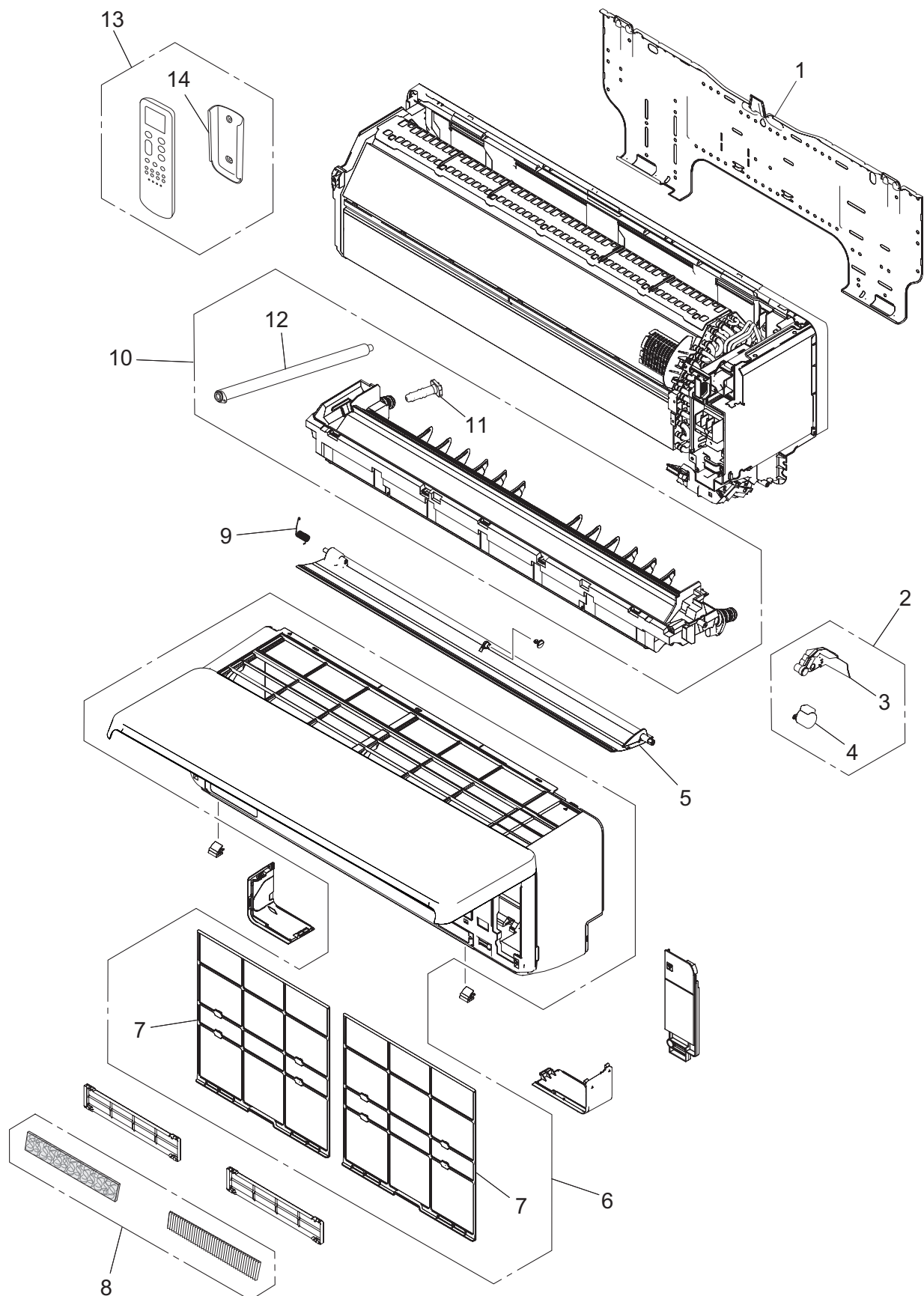


Item no.	Part no.	Part name
50	9900898014	Reactor assy
51	9712721012	Main PCB (18 model)
	9712721029	Main PCB (24 model)
52	9710019005	Communication PCB
53	9712695016	Power supply PCB
54	9900568009	Terminal block 3P (Power)
55	9901150012	Terminal block 5P (Remote)
56	9703299278	Thermistor (Room temp.)
57	9900892005	Thermistor (Pipe temp.)
—	9712575004	Wire with connector (CN15 on Main PCB—Gas sensor)
—	9710177033	Wire with connector (CN46 on Main PCB—Terminal block 5P [EX.IN])
—	9712283084	Wire with connector (CN54 on Main PCB—CN303 on Power supply PCB)
—	9710206030	Wire with connector (CN55 on Main PCB—CN304 on Power supply PCB)
—	9712284029	Wire with connector (CN66 on Main PCB—CN410 on Power supply PCB)
—	9712410060	Wire with connector (CN300 on Main PCB—Y1 and Y2 on Terminal block 5P)
—	9712510036	Wire with connector (CN300 on Power supply PCB—Terminal block 3P)
—	9710161018	Wire with connector (CN302 on Power supply PCB—Reactor)

3-4. Wall mounted type

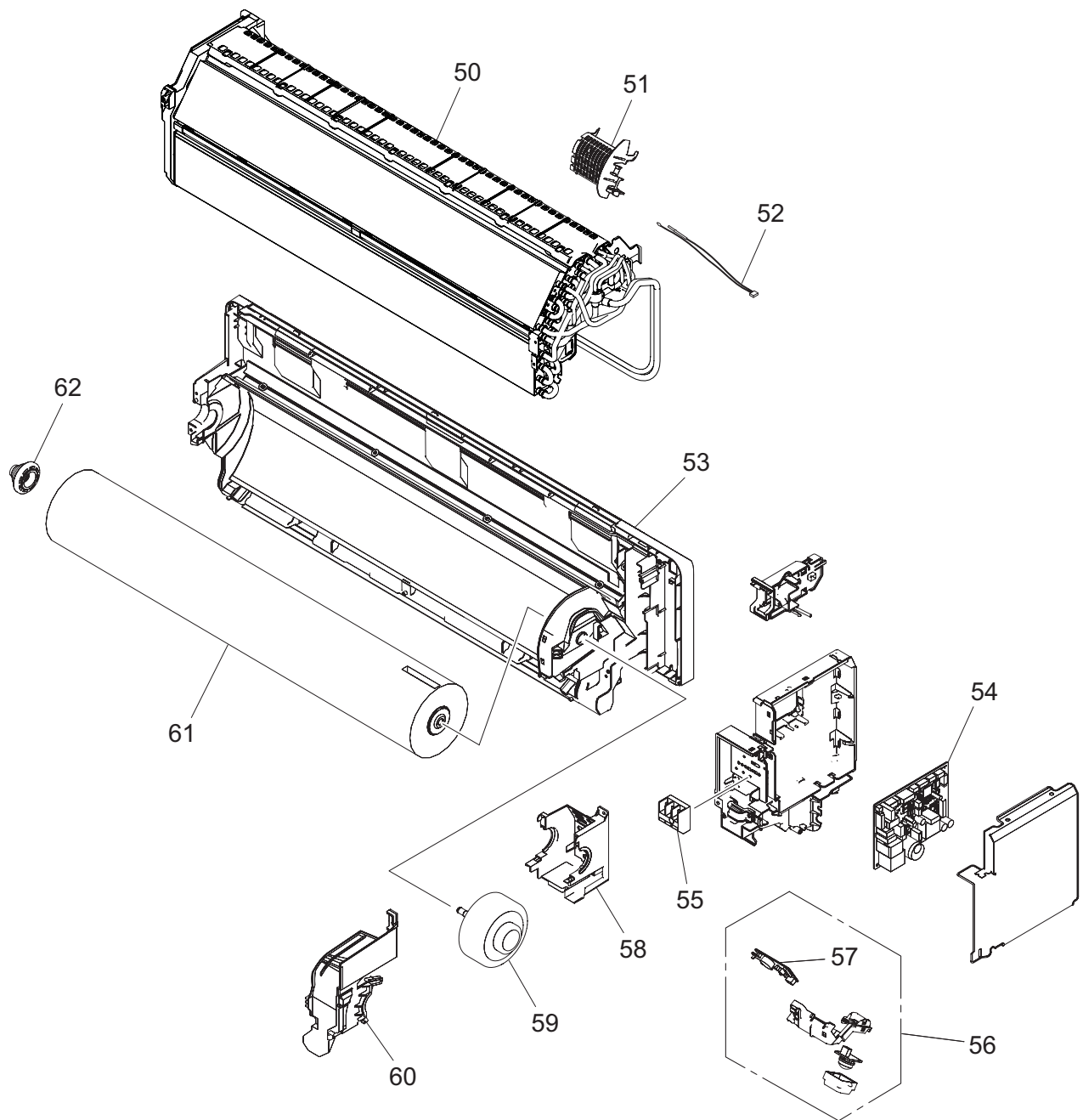
■ Models: ASUH07KPAS, ASUH09KPAS, ASUH12KPAS, and ASUH15KPAS

● Exterior parts



Item no.	Part no.	Part name
1	9388142005	Bracket panel
2	9387714036	Stepping motor holder assy
3	9387456004	Stepping motor holder
4	9901011047	Stepping motor
5	9387479003	Horizontal louver assy
6	9384977618	Front panel total assy
7	9387473018	Air filter
8	9317250009	Air clean filter assy
9	9387471007	Louver spring
10	9387590241	Drain pan total assy
11	9316177017	Drain cap
12	9316904002	Drain hose assy
13	9362142007	Remote controller total assy
14	9350319008	Remote controller holder

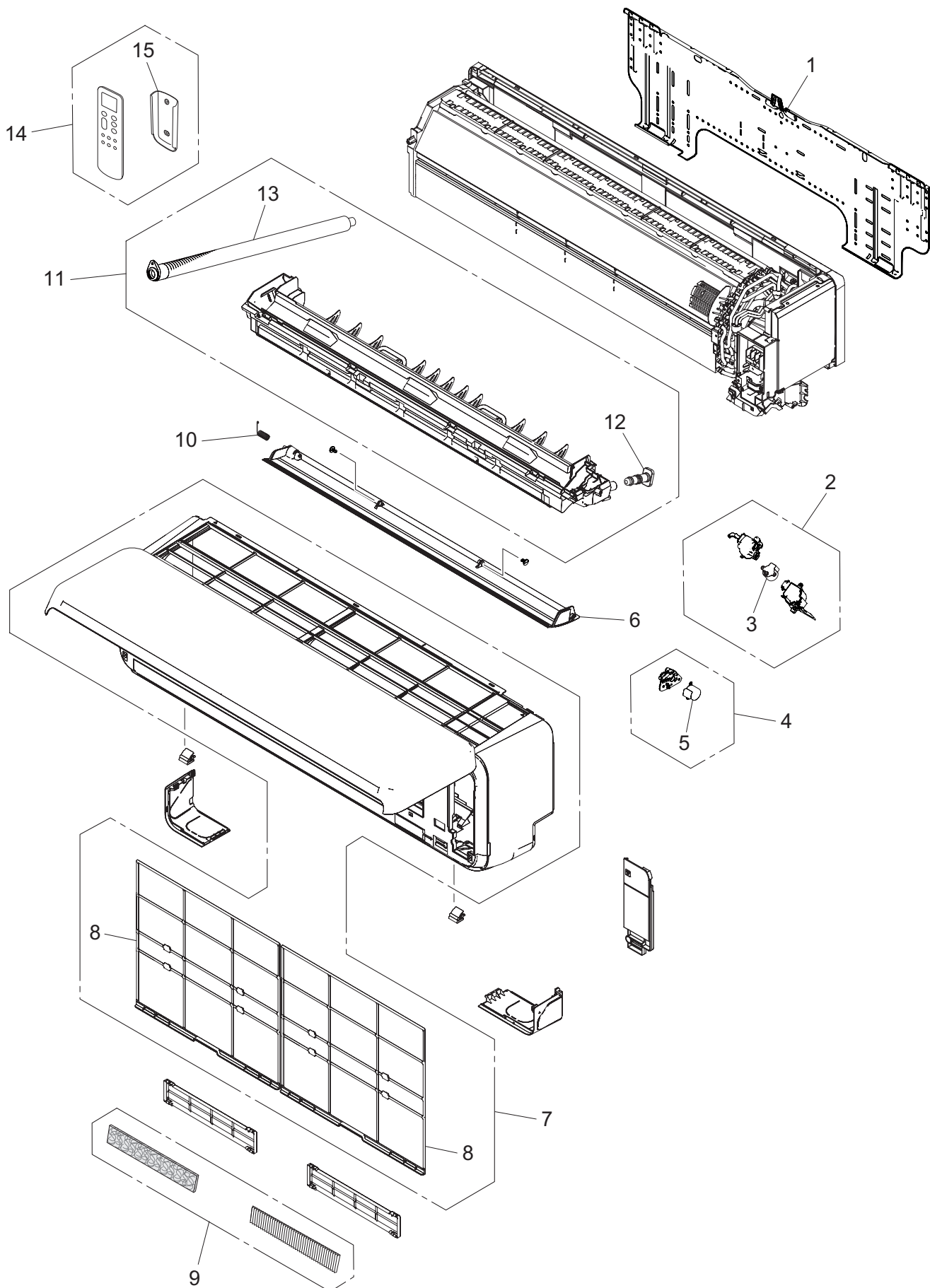
● Base, evaporator, and control unit



Item no.	Part no.	Part name
50	9362077057	Evaporator total assy (07, 09 and 12 models)
	9387593846	Evaporator total assy (15 model)
51	9387467000	Room thermistor holder
52	9901160035	Thermistor assy
53	9387587265	Base assy
54	9712546370	Main PCB (07 model)
	9712546264	Main PCB (09 model)
	9712546271	Main PCB (12 model)
	9712546387	Main PCB (15 model)
55	9901013010	Terminal block 3P
56	9711146199	Indicator assy
57	9711147073	Indicator PCB
58	9384500014	Motor case sub assy
59	9603768003	DC fan motor (07, 09 and 12 models)
	9604224034	DC fan motor (15 model)
60	9387713022	Motor cover assy
61	9387055047	Crossflow fan assy
62	9333628004	Bearing D assy
—	9701439126	Wire with terminal (E1 on Main PCB—Earth terminal)

Models: ASUH18KPAS and ASUH24KPAS

● Exterior parts

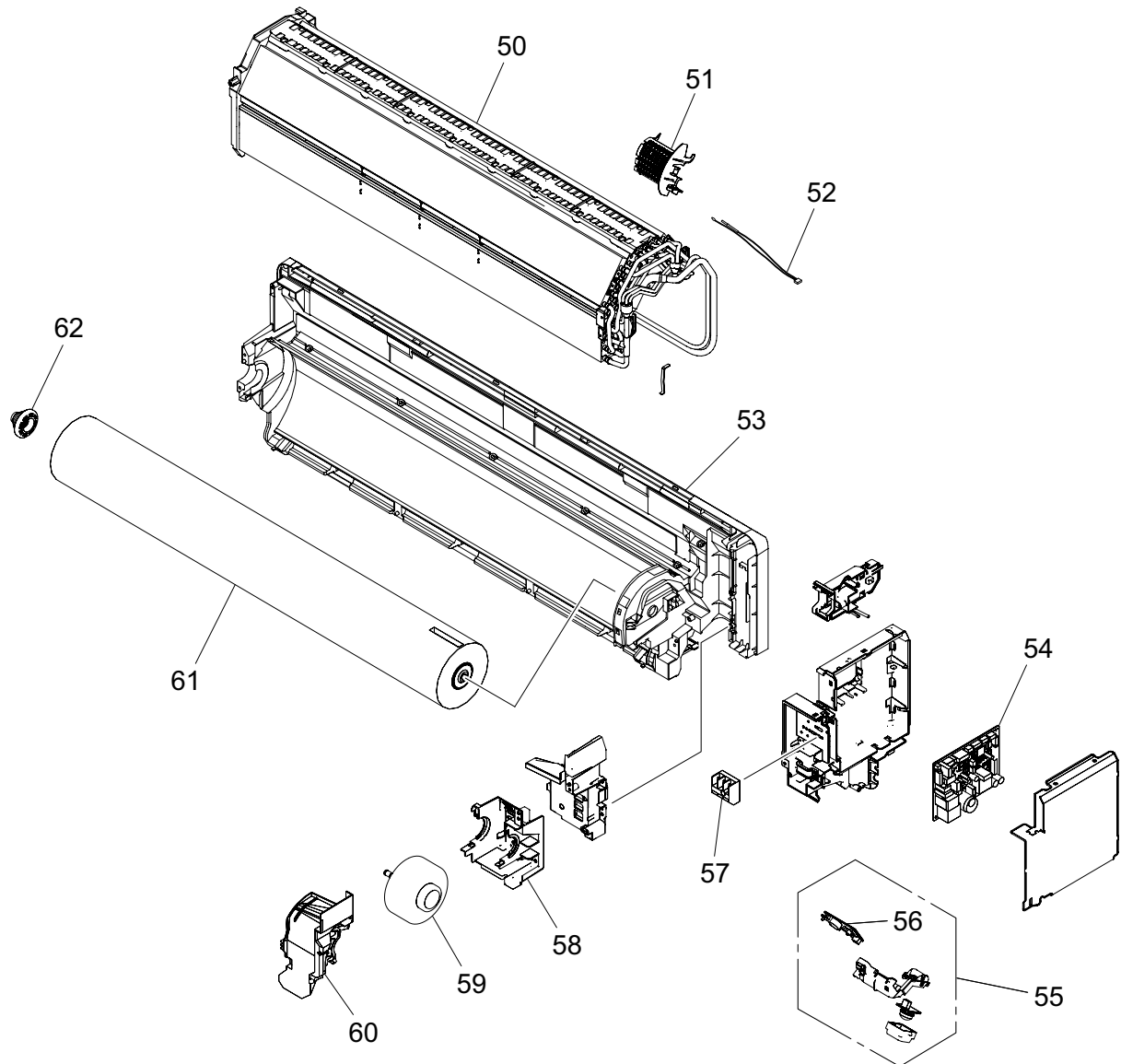


Item no.	Part no.	Part name
1	9388158013	Bracket panel
2	9383728006	Vertical louver stepping motor assy
3	9901011023	Stepping motor
4	9387714012	Gear case assy
5	9901011016	Stepping motor
6	9387479010	Horizontal louver assy
7	9384977670	Front panel total assy
8	9323340022	Air filter
9	9317250009	Air clean filter assy
10	9383730030	Louver spring
11	9387590142	Drain pan total assy
12	9316177017	Drain cap
13	9316904002	Drain hose assy
14	9362142014	Remote controller assy
15	9350319008	Remote controller holder

● Base, evaporator, and control unit

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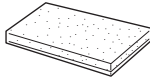



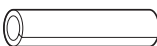

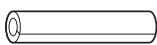


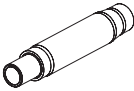


Item no.	Part no.	Part name
50	9383735400	Evaporator total assy
51	9387467000	Room thermistor holder
52	9901160035	Thermistor assy
53	9387587272	Base assy
54	9712546288	Main PCB (18 model)
	9712546295	Main PCB (24 model)
55	9711146304	Indicator assy
56	9711147073	Indicator PCB
57	9901013010	Terminal block 3P
58	9384500007	Motor case sub assy
59	9603631000	DC fan motor
60	9387713015	Motor cover assy
61	9387055054	Crossflow fan assy
62	9333628004	Bearing D assy
—	9901010071	Wire with connector (CN75 on Main PCB—Optional Wireless LAN Adapter)
—	9709509081	Wire with terminal (E1 on Main PCB—Earth terminal)








4. Accessories

4-1. Compact cassette type

■ Models: ACUH07KUAS, ACUH09KUAS, ACUH12KUAS, and ACUH18KUAS





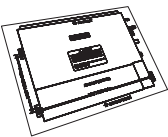


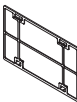


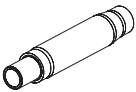
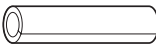

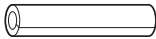

Part name	Exterior	Qty	Part name	Exterior	Qty
Operation manual		1	Drain hose insulation		1
Installation manual		1	Hose band		1
Template (carton top)		1	Coupler heat insulation (large)		1
Washer A (with insulation)		4	Coupler heat insulation (small)		1
Washer B		4	Cable tie (for electrical wiring)		2
Drain hose		1			

■ Cassette Grille accessories

Part name	Exterior	Qty	Part name	Exterior	Qty
Connector cover		1	Hook wire		2
Self-tapping screw (M5 × 12 mm)		4	Screw (pitch small) (M4 × 10 mm)		2
Self-tapping screw (M4 × 12 mm)		1	Screw (pitch large) (M4 × 10 mm)		4
L angle		2			






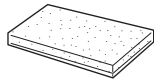

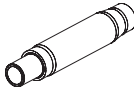
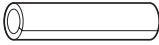

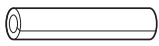
4-2. Slim duct type

■ Models: ADUH07KUAS, ADUH09KUAS, ADUH12KUAS, ADUH18KUAS, and ADUH24KUAS

Part name	Exterior	Qty	Part name	Exterior	Qty
Operating manual		1	Drain hose insulation B		1
Installation manual		1	Cable tie (large)		4
Installation template		1	Cable tie (medium)		2
Washer A (with insulation)		4	Filter (small) (Other than 18 model)		2
Washer B		4	Filter (large) (For 18/24 models)		2 (18 model) 1 (24 model)
Drain hose		1	Coupler heat insulation (large)		1
Hose band		1	Coupler heat insulation (small)		1
Insulation (For electrical wiring)		2			


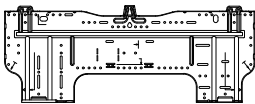

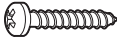
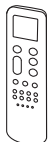





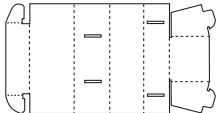
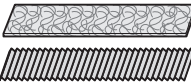
4-3. Middle duct type

■ Models: ARUH12KUAS, ARUH18KUAS, and ARUH24KUAS

Part name	Exterior	Qty	Part name	Exterior	Qty
Operation manual		1	Cable tie (large)		4
Installation manual		1	Cable tie (medium)		1
Washer A (with insulation)		4	Drain hose insulation		1
Washer B		4	Drain hose		1
Coupler heat insulation (large)		1	Hose band		1
Coupler heat insulation (small)		1			

4-4. Wall mounted type

■ **Models: ASUH07KPAS, ASUH09KPAS, ASUH12KPAS, ASUH15KPAS, ASUH18KPAS , and ASUH24KPAS**

Part name	Exterior	Qty	Part name	Exterior	Qty
Operation manual		1	Wall hook bracket		1
Installation manual		1	Self-tapping screw (large)		5
Remote controller		1	Self-tapping screw (small)		2
Remote controller holder		1	Cloth tape		1
Battery		2	Filter holder		2
Installation spacer		1	Air cleaning filters		1

5. Optional parts

5-1. Controllers

■ Lineup

●: Accessory, ○: Optional, —: Not applicable


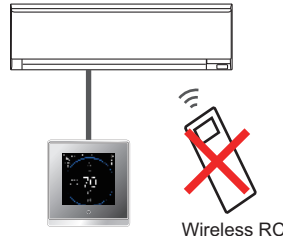

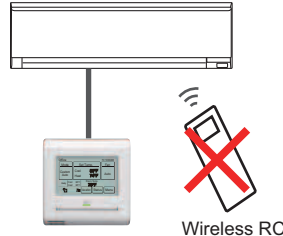
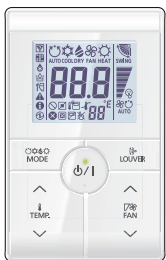
Indoor unit type		Type			
		Wireless Remote Controller			
		UTY-LNTU	AR-REJ1U*1	AR-RRH1U	AR-RRH2U
Compact cassette		○	—	—	—
Slim duct		—	○	—	—
Middle duct		—	○	—	—
Wall mounted	07-15 models	—	—	●	—
	18 and 24 models	—	—	—	●


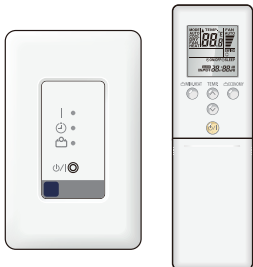

Indoor unit type		Type			
		Wired Remote Controller		Simple Remote Controller	
		UTY-RNRUZ*	UTY-RVRU	UTY-RSRY	UTY-RHRY
Compact cassette		○	○	○	○
Slim duct		○	○	○	○
Middle duct		○	○	○	○
Wall mounted		○*2, 3	○*2, 3	○*2	○*2

Indoor unit type		Type
		IR Receiver Kit with Wireless Remote Controller
		UTY-LBTUM
Compact cassette		—
Slim duct		○
Middle duct		○
Wall mounted		—

- *1: Included in IR Receiver Kit with Wireless Remote Controller.
- *2: Optional Communication Kit is necessary for the installation.
- *3: Simultaneous use with the Wireless Remote Controller is not allowed.

Parts

Exterior	Part name	Model name	Summary
	Wired Remote Controller (Touch Panel)	UTY-RVRU	<p>Remote controller that provides the functions you need in a sleek design that uniquely transforms itself to blend with any interior.</p> <p>NOTE: When this remote controller is connected to a wall-mounted type indoor unit, wireless remote controller cannot be used.</p>  <p>Wireless RC</p> <p>Connecting point</p> <ul style="list-style-type: none"> For other than wall mounted type: Terminal block (Y1 and Y2) For wall mounted type: Optional Communication Kit is necessary for installation.
	Wired Remote Controller (Touch Panel)	UTY-RNRUZ*	<p>Easy finger touch operation with LCD panel. Backlit LCD enables easy operation in a dark room.</p> <p>NOTE: When this remote controller is connected to a wall-mounted type indoor unit, wireless remote controller cannot be used.</p>  <p>Wireless RC</p> <p>Connecting point</p> <ul style="list-style-type: none"> For other than wall mounted type: Terminal block (Y1 and Y2) For wall mounted type: Optional Communication Kit is necessary for installation.
	Simple Remote Controller	UTY-RSRY	<p>Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, temperature setting, and operation mode.</p> <p>Connecting point</p> <ul style="list-style-type: none"> For other than wall mounted type: Terminal block (Y1 and Y2) For wall mounted type: Optional Communication Kit is necessary for installation.

Exterior	Part name	Model name	Summary
	Simple Remote Controller	UTY-RHRY	<p>Compact remote controller concentrates on the basic functions such as Start/Stop, fan control, and temperature setting.</p> <p>Connecting point</p> <ul style="list-style-type: none"> For other than wall mounted type: Terminal block (Y1 and Y2) For wall mounted type: Optional Communication Kit is necessary for installation.
	IR Receiver Kit with Wireless Remote Controller	UTY-LBTUM	<p>Unit control is performed by Wireless Remote Controller Connecting point: CN48 on Main PCB</p>
	Wireless Remote Controller	UTY-LNTU	<p>Unit control is performed by Wireless Remote Controller.</p>

NOTES:

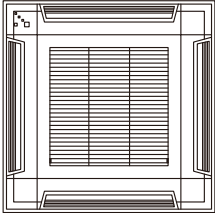
- Available functions may differ by the remote controller. For details, refer to the operation manual.
- When using the group controlling system of the Wired Remote Controller, using WLAN Adapter is prohibited.

5-2. Cassette grille

■ Lineup

Indoor unit type	Model
Compact cassette	UTG-CCGFGA

■ Parts

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

5-3. Others

■ Lineup

●: Accessory, ○: Optional, —: Not applicable

Indoor unit type	Type			
	External Input and Output PCB		External Input and Output PCB Box	
	UTY-XCSX	UTY-XCSXZ2	UTZ-GXEA	UTZ-GXNA
Compact cassette	○	—	○	—
Slim duct	○	—	○	—
Middle duct	○	—	—	○
Wall mounted	—	○*1	—	—

Indoor unit type	Type			
	External Connect Kit			Communication Kit
	UTY-XWZXZG	UTY-XWZXZ5	UTY-XWZX	UTY-TWRXZ2
Compact cassette	○	—	—	—
Slim duct	○	—	—	—
Middle duct	○	—	—	—
Wall mounted	—	○	○	○

Indoor unit type	Type		
	WLAN Adapter*2		External Switch Controller
	UTY-TFSXJ4	UTY-TFSXH4	UTY-TERX
Compact cassette	○	—	○
Slim duct	○	—	○
Middle duct	○	—	○
Wall mounted	—	○	○*3

Indoor unit type	Type			
	Remote Sensor Unit	Modbus Converter	KNX Converter	Thermostat Converter
	UTY-XSZXZ*	UTY-VMSX	UTY-VKSX	UTY-TTRXZ*
Compact cassette	—	○	—	○
Slim duct	○	○	○	○
Middle duct	○	○	○	○
Wall mounted	—	○	—	○*3, 4

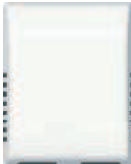

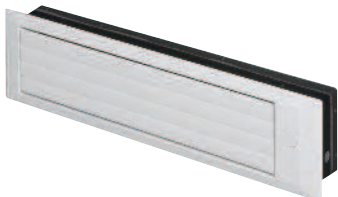

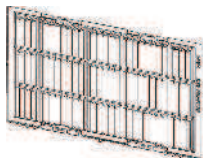
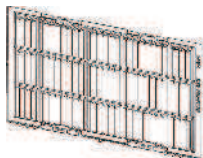
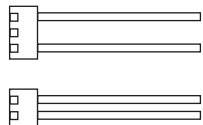

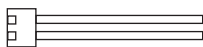

Indoor unit type	Type			
	Network Converter		Insulation Kit for High Humidity	Air Outlet Shutter Plate
	UTY-VTGX	UTY-VTGXV	UTZ-KXGC	UTR-YDZB
Compact cassette	○	○	○	○
Slim duct	○	○	—	—
Middle duct	○	○	—	—
Wall mounted	○*1	—	—	—


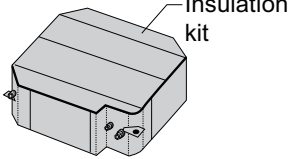
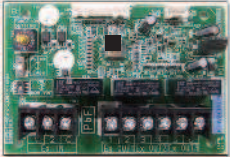
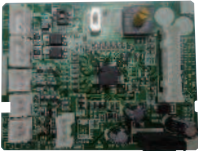
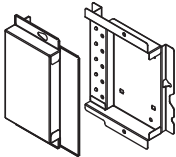
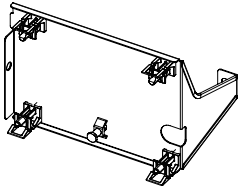
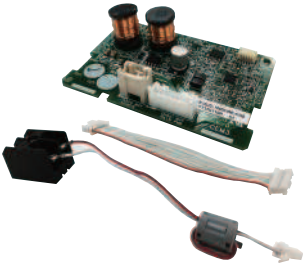

Indoor unit type		Type			
		Fresh Air Intake Kit	Auto Louver Grille Kit		
			UTZ-VXAA	UTD-GXTA-W	UTD-GXTB-W
Compact cassette		○	—	—	—
Slim duct	07-12 models	—	○	—	—
	18 model	—	—	○	—
	24 model	—	—	—	○
Middle duct		—	—	—	—
Wall mounted		—	—	—	—




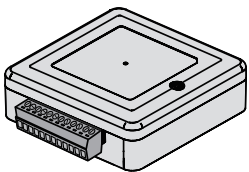

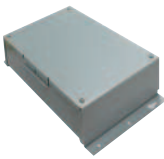

Indoor unit type		Type	
		Long-life Filter	
		UTD-LFNC	UTD-LFNB
Compact cassette		—	—
Slim duct		—	—
Middle duct	12 model	○	—
	18-24 models	—	○
Wall mounted		—	—

- *1: Optional External Connect Kit is necessary for the installation.
- *2: For details of the wireless LAN control, refer to the *Design & Technical Manual* or *Setting Manual* of the WLAN control system.
- *3: Optional Communication Kit is necessary for the installation.
- *4: Simultaneous use with the Wireless Remote Controller is not allowed.

Parts

Exterior	Part name	Model name	Summary
	Remote Sensor Unit	UTY-XSZXZ*	Thermo-sensor for sensing the temperature of arbitrary place in the room. Connecting point: CN8 on Main PCB
	Auto Louver Grille Kit	UTD-GXTA-W	Width: 26-7/8 in (683 mm) (For 07, 09, and 12 models)
	Auto Louver Grille Kit	UTD-GXTB-W	Width: 34-3/4 in (883 mm) (For 18 model)
	Auto Louver Grille Kit	UTD-GXTC-W	Width: 42-5/8 in (1,083 mm) (For 24 model)
	Long-life Filter	UTD-LFNC	Long-life Filter can be mounted to the indoor unit. (For 12 model)
	Long-life Filter	UTD-LFNB	Long-life Filter can be mounted to the indoor unit. (For 18 and 24 models)
	External Connect Kit	UTY-XWZX	Use to connect with various peripheral devices and air conditioner PCB. Connecting point: CN46 and CN47 on Main PCB
	External Connect Kit	UTY-XWZXZ5	Required when external device is connected. Connecting point: CN46 and CN47 on Main PCB
	External Connect Kit	UTY-XWZXZG	Use to connect with various peripheral devices and air conditioner PCB. For control output port. Connecting point: CN47 on Main PCB
	Air Outlet Shutter Plate	UTR-YDZB	Installed at the air outlet when 3-directions mode is performed.

Exterior	Part name	Model name	Summary
	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. Do not branch the connecting duct into multiple rooms. Connecting point: CN47 on Main PCB
	Insulation Kit 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 86 °F (30 °C).
	External Input and Output PCB	UTY-XCSX	Use to connect with external devices and air conditioner PCB. Connecting point: CN65 or CN75 on Main PCB
	External Input and Output PCB	UTY-XCSXZ2	Use to connect with external devices and air conditioner PCB. Optional External Connect Kit might be required to connect locally purchased devices via this PCB. Connecting point: CN65 on Main PCB
	External Input and Output PCB Box	UTZ-GXEA	For installing the External input and output PCB.
	External Input and Output PCB Bracket	UTZ-GXNA	For installing the External input and output PCB.
	Communication Kit	UTY-TWRXZ2	Use to connect Non-polar 2-core wired remote controller. Connecting point: CN13 on Main PCB
	WLAN Adapter	UTY-TFSXJ4	Remotely manage an air conditioning system using mobile devices such as smartphones and tablets. For connection indoor unit with UART interface. Appropriate application for each region is required to use this option. For details, contact FGL sales company. Connecting point: CN75 on Main PCB

Exterior	Part name	Model name	Summary
	WLAN Adapter	UTY-TFSXH4	Remotely manage an air conditioning system using mobile devices such as smartphones and tablets. Appropriate application for each region is required to use this option. For details, contact FGL sales company. Connecting point: USB connector
	Modbus Converter	UTY-VMSX	For connection between indoor unit with UART interface and a Modbus open network. Connecting point: CN65 or CN75 on Main PCB
	KNX Converter	UTY-VKSX	For connection between indoor unit with UART interface and a KNX open network. Connecting point: CN65 or CN75 on Main PCB
	Thermostat Converter	UTY-TTRXZ*	This converter can control Fujitsu General products using a third-party thermostat controller. Optional Communication Kit is necessary for installation. Connecting point <ul style="list-style-type: none"> For other than wall mounted type: Terminal block (Y1 and Y2) For wall mounted type: Optional Communication Kit is necessary for installation.
	Network Converter	UTY-VTGX	This converter is required when connecting single split system to VRF network system. Optional Communication Kit is necessary for installation. Connecting point <ul style="list-style-type: none"> For other than wall mounted type: Terminal block (Y1 and Y2) For wall mounted type: Optional Communication Kit is necessary for installation.
	Network Converter (AC power supply)	UTY-VTGXV	This converter is required when connecting single split system to VRF network system. Optional Communication Kit is necessary for installation. Connecting point: Terminal block (Y1 and Y2)
	External Switch Controller	UTY-TERX	Air conditioner switching can be controlled by connecting other external sensor switches. Optional Communication Kit is necessary for installation. Connecting point <ul style="list-style-type: none"> For other than wall mounted type: Terminal block (Y1 and Y2) For wall mounted type: Optional Communication Kit is necessary for installation.

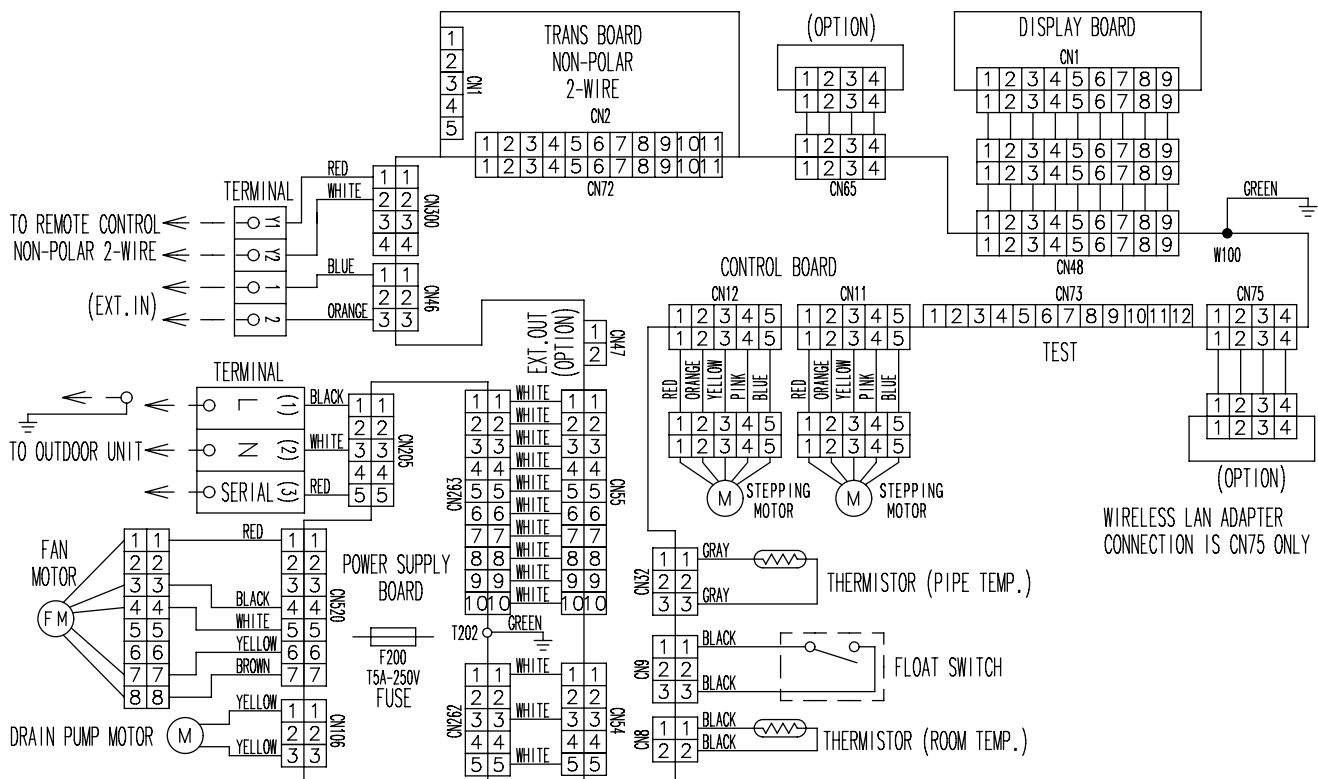
NOTE: Combined use of following optional parts and WLAN Adapter is not allowed.

- External Input and Output PCB (UTY-XCSX)
- External Input and Output PCB (UTY-XCSXZ2)
- Modbus Converter
- KNX Convertor

6. Wiring diagrams

6-1. Compact cassette type

Models: ACUH07KUAS, ACUH09KUAS, ACUH12KUAS, and ACUH18KUAS



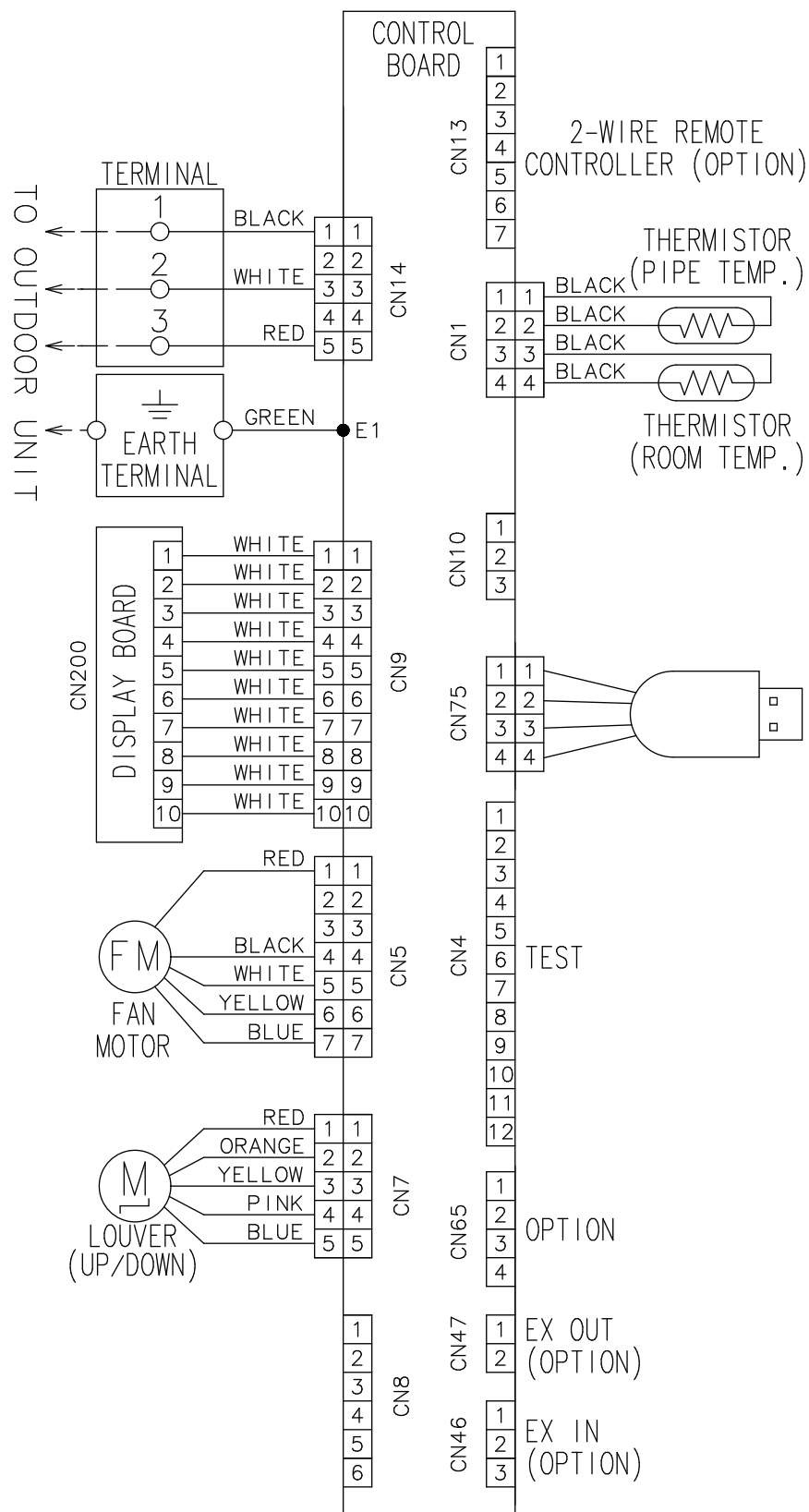
TECHNICAL DATA AND PARTS LIST

■ Models: ARUH12KUAS, ARUH18KUAS, and ARUH24KUAS

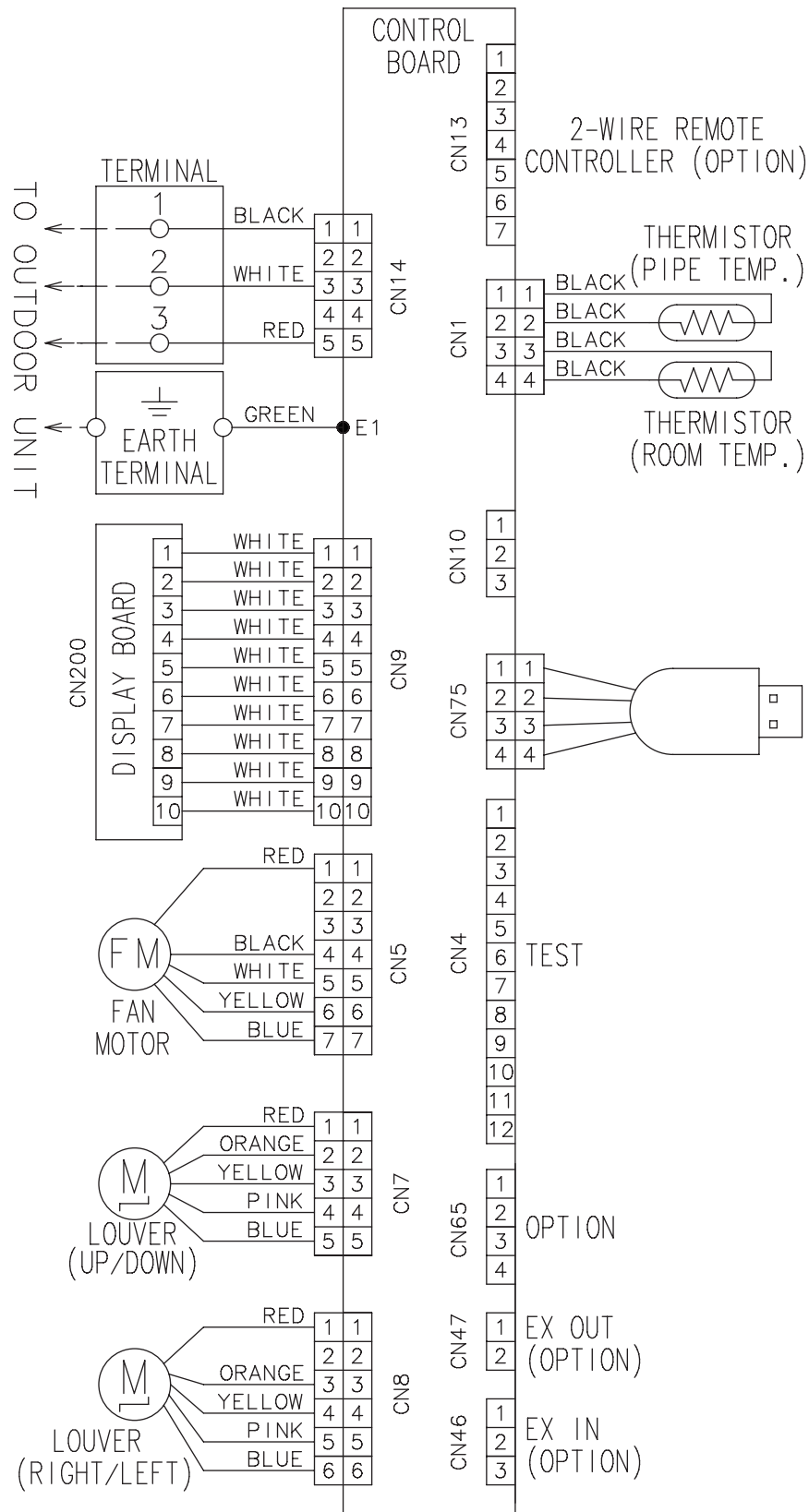


6-4. Wall mounted type

■ Models: ASUH07KPAS, ASUH09KPAS, ASUH12KPAS, and ASUH15KPAS

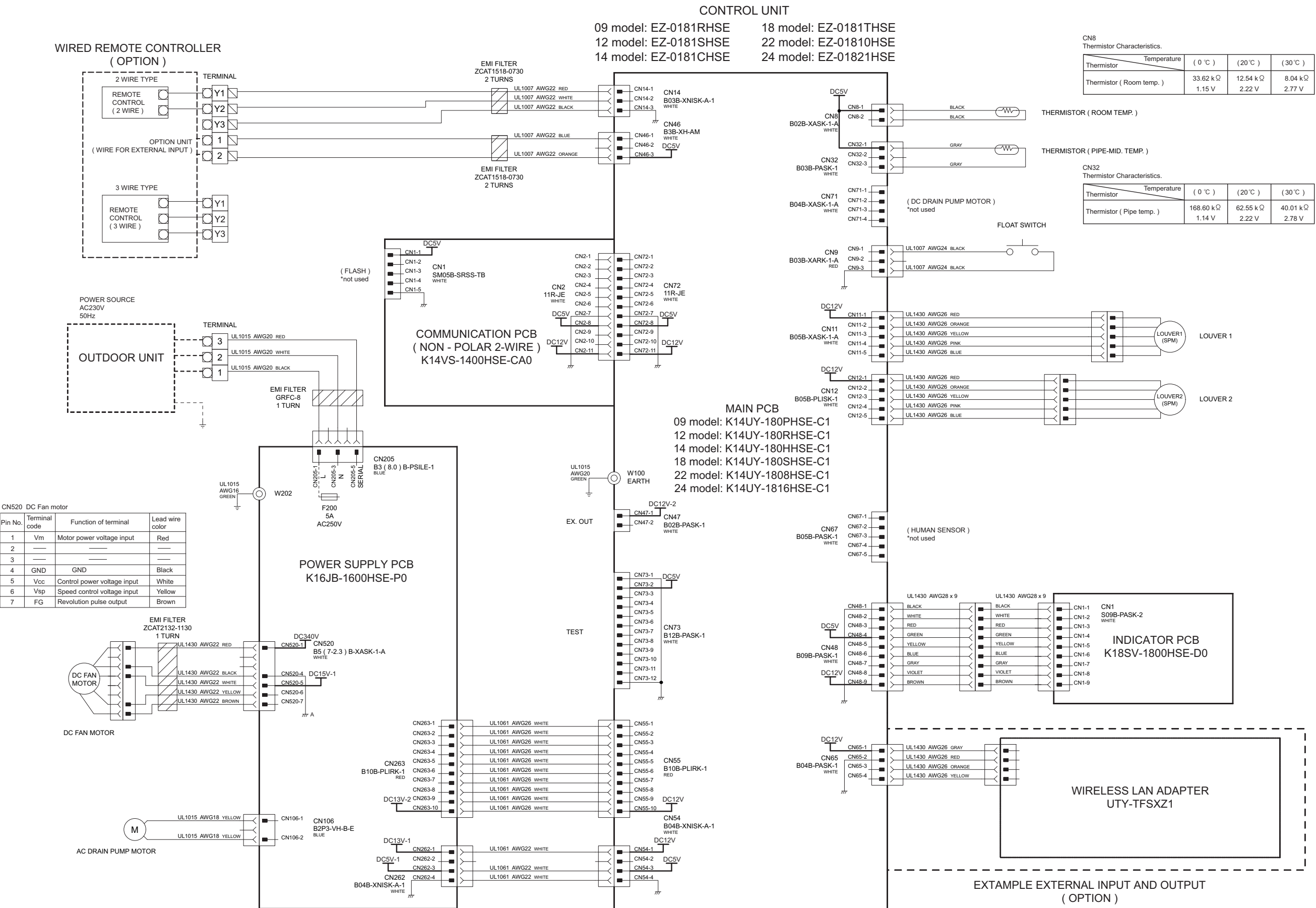


Models: ASUH18KPAS and ASUH24KPAS



7. PC board diagrams

7-1. Models: ACUH07KUAS, ACUH09KUAS, ACUH12KUAS, and ACUH18KUAS



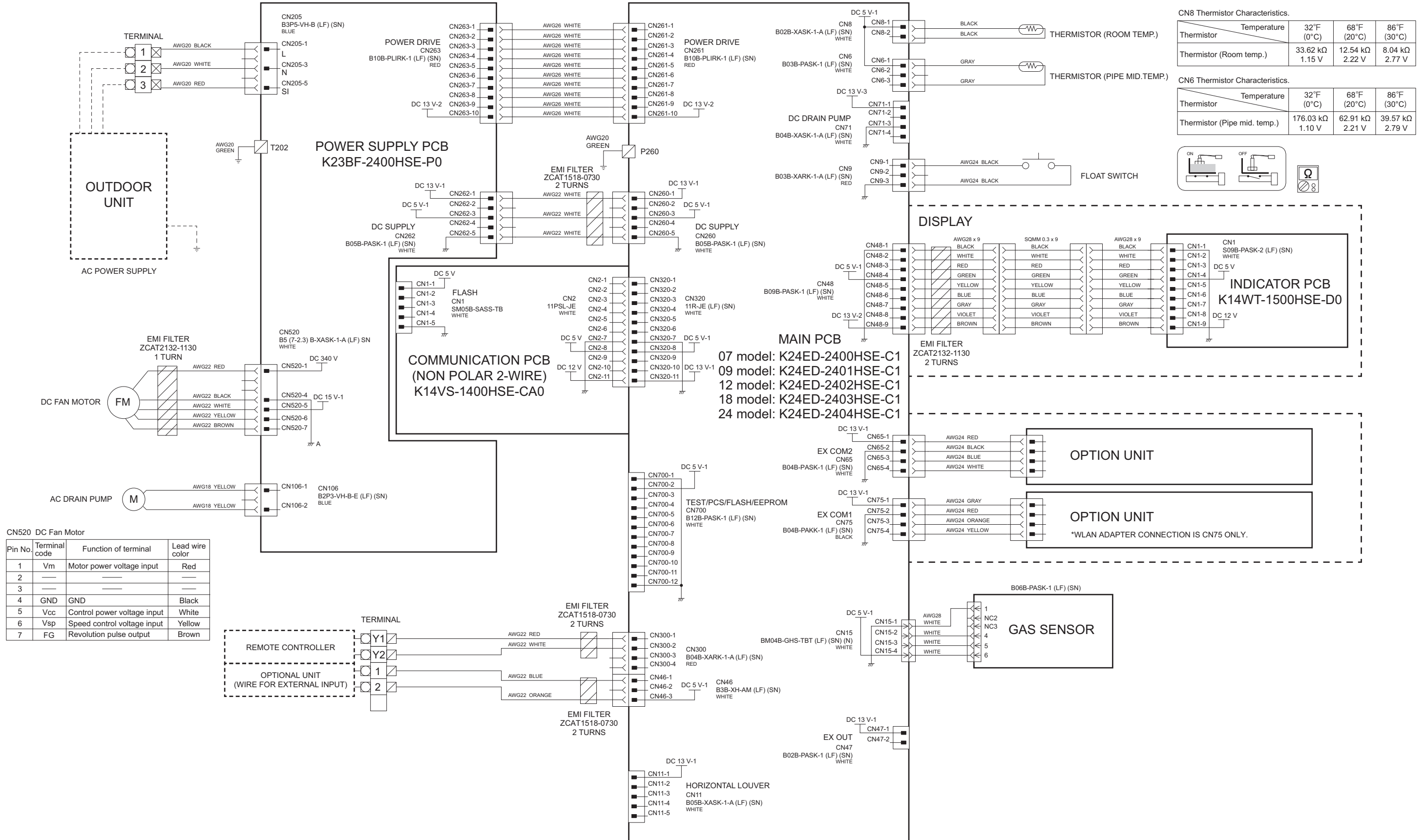
7-2. Models: ADUH07KUAS, ADUH09KUAS, ADUH12KUAS, ADUH18KUAS, and ADUH24KUAS

CONTROL UNIT

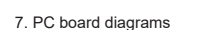
07 model: EZ-02400HSE
18 model: EZ-02403HSE

09 model: EZ-02401HSE
24 model: EZ-02404HSE

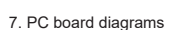
12 model: EZ-02402HSE



12 model: EZ-02405HSE
18 model: EZ-02406HSE
24 model: EZ-02407HSE



TECHNICAL DATA AND PARTS LIST



18 model: EZ-0240SHSE
24 model: EZ-0240THSE

