

SERVICE MANUAL



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Indoor unit	Outdoor unit
ACUH07LUAS1	AOU24RLXFZ
ACUH09LUAS1	
ACUH12LUAS1	
ACUH18LUAS1	
UTG-CCGFGA	
ADUH07LUAS1	
ADUH09LUAS1	
ADUH12LUAS1	
ADUH18LUAS1	
ASU7RLF1	
ASU9RLF1	
ASU12RLF1	
ASU15RLF1	
ASUH07LPAS	
ASUH09LPAS	
ASUH12LPAS	
ASUH15LPAS	
ASUH18LPAS	
AGU9RLF	
AGU12RLF	
AGU15RLF	

Specifications (Indoor unit)

1. Compact cassette type

Model name				ACUH07LUAS1	ACUH09LUAS1	ACUH12LUAS1	ACUH18LUAS1
Power supply				208/230 V ~ 60 Hz			
Available voltage range				187—264 V			
Capacity			Btu/h class	7,000	9,000	12,000	18,000
Input power			W	18		23	39
Running current			A	0.15		0.19	0.30
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	318 (540)	359 (610)	441 (750)
			MED		288 (490)	312 (530)	359 (610)
			LOW		259 (440)	277 (470)	306 (520)
			QUIET		230 (390)	241 (410)	241 (410)
		Heating	HIGH		318 (540)	359 (610)	471 (800)
			MED		288 (490)	312 (530)	418 (710)
			LOW		259 (440)	277 (470)	353 (600)
			QUIET		230 (390)	241 (410)	265 (450)
	Type × Q'ty			Turbo × 1			
	Motor output			W54			
Sound pressure level *1	Cooling	HIGH	dB (A)	33	37	42	
		MED		31	33	37	
		LOW		29	31	33	
		QUIET		27	28	29	
	Heating	HIGH		34	37	44	
		MED		32	33	40	
		LOW		29	31	37	
		QUIET		27	28	30	
Heat exchanger type	Dimensions (H × W × D)		in (mm)	Main 1: 8-4/16 × 51-9/16 × 1/2 (210 × 1,310 × 13.3) Main 2: 8-4/16 × 49-3/16 × 1/2 (210 × 1,250 × 13.3)			
	Fin pitch		FPI	Main 1: 21 Main 2: 21			
	Rows × Stages			Main 1: 1 × 10 Main 2: 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)			
	10-7/16 × 28-3/4 × 24-5/8 (265 × 730 × 625)						
Weight	Net	lb (kg)		33 (15)			
	40 (18)42 (19)						
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (Ø6.35)			
	Gas	Ø3/8 (Ø9.52)Ø1/2 (Ø12.70)					
	Method			Flare			
Operation range		Cooling	°F (°C)	64 to 90 (18 to 32)			
			%RH	80 or less			
		Heating	°F (°C)	60 to 86 (16 to 30)			
Drain hose	Material		HARD PVC				
	Tip diameter		in (mm)	Ø1 (Ø25) (I.D.), Ø1-1/4 (Ø32) (O.D.)			
Remote controller (Option)				Wired, Wireless, Mobile app*2 [FGLair™]			
Cassette grille (Grid type: Option)		Model name		UTG-CCGFGA			
		Material		PS			
		Color		White			
				Approximate color of Munsell 9PB 9.1/0.2			
		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)	5.0 (2.3)		
Gross	10 (4.5)						

NOTES:

- The 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. Slim duct type

Model name				ADUH07LUAS1		ADUH09LUAS1		ADUH12LUAS1			
Power supply				208/230 V ~ 60 Hz							
Available voltage range				187—264 V							
Capacity				Btu/h class		7,000		9,000		12,000	
Input power				W		33		49		58	
Running current				A		0.30				0.35	
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 × 2								
	Motor output			W		80		81			
Recommended static pressure				inWG (Pa)		0 to 0.36 (0 to 90)					
Sound pressure level*1		Cooling	HIGH	dB (A)	28				29		
			MED		26		27		28		
			LOW		25		26		27		
			QUIET		24		25		26		
		Heating	HIGH		28				29		
			MED		26				28		
			LOW		25				27		
			QUIET		24						
Heat exchanger type		Dimensions (H × W × D)		in (mm)		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					
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 (Option)					Wired, Mobile app*2 [FGLair™]						
Drain hose		Material			HARD PVC						
		Tip diameter			in (mm)		Ø1 (Ø25) (I.D.), Ø1-1/4 (Ø32) (O.D.)				
NOTES:											
- The 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.											

Model name				ADUH18LUAS1	
Power supply				208/230 V ~ 60 Hz	
Available voltage range				187—264 V	
Capacity			Btu/h class	18,000	
Input power			W	73	
Running current			A	0.44	
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	553 (940)
			MED		518 (880)
			LOW		483 (820)
			QUIET		441 (750)
		Heating	HIGH		553 (940)
			MED		518 (880)
			LOW		483 (820)
			QUIET		441 (750)
	Type × Q'ty		Sirocco × 3		
	Motor output		W	81	
Recommended static pressure			inWG (Pa)	0 to 0.36 (0 to 90)	
Sound pressure level *1	Cooling	HIGH	dB (A)	32	
		MED		31	
		LOW		30	
		QUIET		29	
	Heating	HIGH		33	
		MED		32	
		LOW		31	
		QUIET		29	
Heat exchanger type	Dimensions (H × W × D)		in (mm)	11-9/16 × 27-9/16 × 1-9/16 (294 × 700 × 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)	
	Gross			10-13/16 × 45-1/16 × 30-3/8 (274 × 1,145 × 772)	
Weight	Net		lb (kg)	44 (20)	
	Gross			57 (26)	
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (Ø6.35)	
		Gas		Ø1/2 (Ø12.70)	
	Method			Flare	
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 (Option)				Wired, Mobile app*2 [FGLair™]	
Drain hose	Material			HARD PVC	
	Tip diameter		in (mm)	Ø1 (Ø25) (I.D.), Ø1-1/4 (Ø32) (O.D.)	
NOTES:					
- The 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.					

3. Wall mounted type (ASU7-15RLF1)

Model name				ASU7RLF1	ASU9RLF1	ASU12RLF1	ASU15RLF1	
Power supply				208/230 V ~ 60 Hz				
Available voltage range				187—264 V				
Capacity			Btu/h class	7,000	9,000	12,000	14,000	
Input power			W	15	17	22	28	
Running current			A	0.13	0.15	0.19	0.25	
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	330 (560)	353 (600)	388 (660)	430 (730)
			MED		294 (500)	306 (520)	330 (560)	353 (600)
			LOW		253 (430)	253 (430)	265 (450)	312 (530)
			QUIET		182 (310)	182 (310)	182 (310)	212 (360)
		Heating	HIGH		330 (560)	353 (600)	388 (660)	430 (730)
			MED		294 (500)	306 (520)	330 (560)	362 (615)
			LOW		253 (430)	253 (430)	277 (470)	330 (560)
			QUIET		194 (330)	194 (330)	194 (330)	221 (375)
	Type × Q'ty		Crossflow fan × 1					
	Motor output		W	30				
Sound pressure level *			dB (A)	36	37	40	42	
				32	33	36	38	
				29	29	30	33	
				21	21	21	25	
				36	37	40	42	
				32	33	36	38	
				29	29	31	35	
				22	22	22	27	
Heat exchanger type		Dimensions (H × W × D)	in (mm)	Main: 12-5/8 × 24-13/16 × 13/16 (320 × 630 × 20) Sub: 3-5/16 × 24-13/16 × 1/2 (84 × 630 × 13.3)				
		Fin pitch	FPI	Main: 23, Sub: 18				
		Rows × Stages	Main: 2 × 20, Sub: 1 × 4					
		Pipe type	Copper tube					
		Fin type	Aluminum					
Enclosure	Material			Polystyrene				
	Color			White Approximate color of Munsell N 9.25/				
Dimensions (H × W × D)	Net		in (mm)	10-9/16 × 33-1/16 × 8 (268 × 840 × 203)				
	Gross			10-5/8 × 34-13/16 × 14-3/4 (270 × 884 × 336)				
Weight	Net		lb (kg)	19 (8.5)				
	Gross			23 (10.5)				
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (Ø6.35)				
		Gas		Ø3/8 (Ø9.52)			Ø1/2 (Ø12.70)	
	Method			Flare				
Drain hose	Material			PP + HDPE				
	Tip diameter		in (mm)	Ø17/32 (Ø13.8) (I.D.), Ø19/32 to 21/32 (Ø15.0 to 16.8) (O.D.)				
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 (Wired [option])				
NOTES:								
- The protective function might work when using it outside the operation range. *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.								

4. Wall mounted type (ASUH07-15LPAS)

Model name				ASUH07LPAS		ASUH09LPAS		ASUH12LPAS		ASUH15LPAS			
Power supply				208/230 V ~ 60 Hz									
Available voltage range				187—264 V									
Capacity			Btu/h class		7,000		9,000		12,000		14,000		
Input power			W		18		22		26		42		
Running current			A		0.18		0.20		0.24		0.35		
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	383 (650)		412 (700)		412 (700)		453 (770)		
			MED		318 (540)		330 (560)		330 (560)		353 (600)		
			LOW		253 (430)		253 (430)		253 (430)		265 (450)		
			QUIET		188 (320)		188 (320)		182 (310)		182 (310)		
		Heating	HIGH		424 (720)		441 (750)		453 (770)		483 (820)		
			MED		341 (580)		359 (610)		377 (640)		388 (660)		
			LOW		271 (460)		277 (470)		306 (520)		306 (520)		
			QUIET		194 (330)		194 (330)		182 (310)		200 (340)		
	Type × Qty		Crossflow fan × 1										
	Motor output		W		49								
Sound pressure level*1		Cooling	HIGH	dB (A)	38		40				43		
			MED		33		34		35		36		
			LOW		29				30				
			QUIET		21								
		Heating	HIGH		41		42				44		
			MED		35		36		38		39		
			LOW		31				33				
			QUIET		22						24		
Heat exchanger type		Dimensions (H × W × D)		in (mm)		Main1: 8-1/4 × 26-5/16 × 1-1/16 (210 × 668 × 26.6) Main2: 4-7/16 × 26-5/16 × 13/16 (112 × 668 × 20)				Main1: 8-1/4 × 26-5/16 × 1-1/16 (210 × 668 × 26.6) Main2: 4-7/16 × 26-5/16 × 13/16 (112 × 668 × 20) Sub: 3-5/16 × 26-5/16 × 1/2 (84 × 668 × 13.3)			
		Fin pitch		FPI		Man1: 21 Main2: 23				Man1: 21 Main2: 23 Sub: 18			
		Rows × Stages		Main1: 2 × 10 Main2: 2 × 7				Main1: 2 × 10 Main2: 2 × 7 Sub: 1 × 4					
		Pipe type		Copper									
		Fin type		Aluminum									
		Material		Polystyrene									
Enclosure		Color		White Approximate color of Munsell N 9.25/									
		Net		in (mm)		10-5/8 × 32-13/16 × 8-3/4 (270 × 834 × 222)							
Gross		10-7/8 × 36 × 13-1/16 (277 × 914 × 332)											
Weight		Net		lb (kg)		21 (9.5)				22 (10.0)			
		Gross				26 (12.0)				29 (13.0)			
Connection pipe		Size		Liquid Gas		in (mm)		Ø1/4 (Ø6.35)					
		Method						Ø3/8 (Ø9.52)				Ø1/2 (Ø12.7)	
Drain hose		Material		Flare									
		Tip diameter		in (mm)		PP+HDPE Ø17/32 (Ø13.8) (I.D.), Ø19/32 to 21/32 (Ø15.0 to 16.8) (O.D.)							
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				Wireless (Wired, Mobile app*2 [FGLair™] [option])									
NOTES: - The 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.													

Wall mounted type (ASUH18LPAS)

Model name				ASUH18LPAS	
Power supply				208/230 V ~ 60 Hz	
Available voltage range				187—264 V	
Capacity			Btu/h class	18,000	
Input power			W	34	
Running current			A	0.32	
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	530 (900)
			MED		471 (800)
			LOW		377 (640)
			QUIET		241 (410)
		Heating	HIGH		506 (860)
			MED		406 (690)
			LOW		330 (560)
			QUIET		247 (420)
	Type × Qty			Crossflow fan × 1	
	Motor output		W	59	
Sound pressure level*1	Cooling	HIGH	dB (A)	44	
		MED		42	
		LOW		37	
		QUIET		26	
	Heating	HIGH		43	
		MED		39	
		LOW		34	
		QUIET		28	
Heat exchanger type	Dimensions (H × W × D)		in (mm)	Main1: 8-1/4 × 31-5/16 × 1-1/16 (210 × 796 × 26.6) Main2: 4-15/16 × 31-5/16 × 1-1/16 (126 × 796 × 26.6) Sub1: 3-5/16 × 31-5/16 × 1/2 (84 × 796 × 13.3)	
	Fin pitch		FPI	Main1: 21 Main2: 21 Sub1: 18	
	Rows × Stages			Main1: 2 × 10 Main2: 2 × 6 Sub1: 1 × 4	
	Pipe type			Copper	
	Fin type			Aluminum	
	Material			Polystyrene	
Enclosure	Color			White	
				Approximate color of Munsell N 9.25/ 11 × 38-9/16 × 9-7/16 (280 × 980 × 240)	
Dimensions (H × W × D)	Net		in (mm)	12-11/16 × 42-7/16 × 13-5/8 (322 × 1,078 × 346)	
	Gross				
Weight	Net		lb (kg)	29 (13)	
	Gross			37 (17)	
Connection pipe	Size	Liquid Gas	in (mm)	Ø1/4 (Ø6.35)	
				Ø1/2 (Ø12.7)	
Drain hose	Method			Flare	
	Material			PP+HDPE	
Operation range	Tip diameter		in (mm)	Ø17/32 (Ø13.8) (I.D.), Ø5/8 to 21/32 (Ø15.8 to 16.7) (O.D.)	
	Cooling			64 to 90 (18 to 32)	
		%RH		80 or less	
Remote controller type	Heating		°F (°C)		86 or less (30 or less)
					Wireless (Wired, Mobile app*2 [FGLair™] [option])
NOTES:					
- The 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.					

5. Floor type

Model name				AGU9RLF	AGU12RLF	AGU15RLF			
Power supply				208/230 V ~ 60 Hz					
Available voltage range				187—264 V					
Capacity			Btu/h class	9,000	12,000	14,000			
Input power			W	16	20	23			
Running current			A	0.15	0.18	0.20			
Fan	Airflow rate	Cooling	HIGH	CFM (m³/h)	312 (530)	353 (600)	383 (650)		
			MED		259 (440)	288 (490)	306 (520)		
			LOW		212 (360)	224 (380)	235 (400)		
			QUIET		159 (270)	159 (270)	159 (270)		
		Heating	HIGH		312 (530)	353 (600)	383 (650)		
			MED		270 (460)	300 (510)	318 (540)		
			LOW		224 (380)	241 (410)	253 (430)		
			QUIET		159 (270)	159 (270)	159 (270)		
	Type × Q'ty			Crossflow fan × 2					
	Motor output			W	16				
Sound pressure level *			Cooling	dB (A)	39	42	44		
					MED	34	36	38	
					LOW	28	30	31	
					QUIET	22	22	22	
					Heating	HIGH	39	42	44
						MED	35	38	39
						LOW	30	32	33
						QUIET	22	22	22
Heat exchanger type			Dimensions (H × W × D)	in (mm)	14-7/8 × 21-5/8 × 1-1/16 (378 × 550 × 26.6)				
			Fin pitch	FPI	21				
			Rows × Stages	2 × 18					
			Pipe type	Copper tube					
			Fin type	Aluminum					
Enclosure	Material			Polystyrene					
	Color			White (Approximate color of Munsell N 9.25/)					
Dimensions (H × W × D)	Net		in (mm)	23-5/8 × 29-1/8 × 7-7/8 (600 × 740 × 200)					
	Gross			27-9/16 × 32-5/16 × 12-3/16 (700 × 820 × 310)					
Weight	Net		lb (kg)	31 (14)					
	Gross			37 (17)					
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (Ø6.35)					
		Gas		Ø3/8 (Ø9.52)		Ø1/2 (Ø12.70)			
		Method		Flare					
Drain hose	Material			PVC					
	Size		in (mm)	Ø9/16 (Ø13.8) (I.D.), Ø11/16 (Ø16.7) (O.D.)					
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 (Wired [option])					
NOTES:									
• The protective function might work when using it outside the operation range.									
• *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.									

Specifications (Outdoor unit)

Model: AOU24RLXFZ

Type				Inverter heat pump			
Model name				AOU24RLXFZ			
Power source				1Ø 208/230 V 60 Hz			
Available voltage range				187—264V			
Connectable indoor unit			Number	2 to 3			
			Total capacity range	14,000 to 27,000 Btu/h			
Combination of indoor unit				Non-duct ASU9RLF1 + ASU7RLF1 × 2	Duct ADUH12LUAS1 × 2	Mix	
Capacity	Cooling	Rated	Btu/h	22,000			
			kW	6.42			
		Min.—Max.	Btu/h	6,100—27,000	6,100—25,000	6,100—26,000	
			kW	1.8—7.9	1.8—7.3	1.8—7.6	
		Heating	Rated	Btu/h	24,000		
				kW	7.02		
	Min.—Max.		Btu/h	6,800—29,800	6,800—27,400	6,800—28,600	
			kW	2.0—8.7	2.0—8.0	2.0—8.4	
	Heating (17°F)* ¹	Rated	Btu/h	14,100			
			kW	4.13			
		Min.—Max.	Btu/h	4,000—19,900	4,000—19,000	4,000—19,450	
			kW	1.17—5.83	1.17—5.57	1.17—5.70	
		Heating (5°F)* ²	Rated	Btu/h	11,900	13,300	12,600
				kW	3.49	3.90	3.69
	Min.—Max.		Btu/h	3,300—16,350	3,300—15,550	3,300—15,950	
			kW	0.97—4.79	0.97—4.56	0.97—4.68	
Input power	Cooling	Rated	kW	1.76	2.08	—	
		Max.		2.60	2.84	—	
	Heating	Rated		1.73	2.05	—	
		Max.		2.93		—	
	Heating (17°F)* ¹	Rated		1.50	1.69	—	
		Max.		2.62	2.86	—	
	Heating (5°F)* ²	Rated		1.88	2.07	—	
		Max.		2.47	2.86	—	
Current	Cooling	Rated	A	7.7	9.1	8.4	
	Heating			7.6	9.0	8.3	
EER2	Cooling	Rated	Btu/hW	12.50	10.60	11.55	
SEER2	Cooling		Btu/hW	18.50	16.0	17.25	
COP2	Heating	Rated	kW/kW	4.04	3.42	3.73	
HSPF2	Heating		Btu/hW	8.70	8.50	8.60	
Power factor	Cooling	Rated	%	99.4	99.3	—	
	Heating			99.0		—	
Starting current			A	9.0			
Maximum operating current* ³			A	13.7			
Fan	Type × Qty			Propeller × 1			
	Airflow rate	Cooling		1,942 (3,300)			
		Heating		1,942 (3,300)			
	Motor	Type × Qty		DC motor × 1			
Sound pressure level* ⁴	Output		W	100			
	Cooling	Rated	dB (A)	51			
	Heating			52			
Heat exchanger	Dimension (H × W × D)		in (mm)	26-7/16 × 35-7/16 × 1-7/16 (672 × 900 × 36.38)			
	Fin pitch		FPI	18			
	Rows × Stages			2 × 32			
	Pipe type (Material)			Grooved H-pin (Copper)			
	Fin	Type (Material)		Corrugate (Aluminum)			
		Surface treatment		Corrosion resistance (Blue Fin)			
Compressor	Type			DC twin rotary			
	Motor output		W	1,100			
Refrigerant	Type			R410A			
	Charge		lb (g)	4 lb 14 oz (2,200)			
Refrigerant oil	Type			POE			
	Amount		in ³ (cm ³)	39.7 (650)			
Enclosure	Material			Painted galvanized steel			
	Color			Beige (Approximate color of Munsell 10YR 7.5/1.0 NN)			
Dimensions	Net	(H × W × D)	in (mm)	27-9/16 × 35-7/16 × 13 (700 × 900 × 330)			
	Gross			34-1/16 × 41-5/16 × 17-1/2 (865 × 1,050 × 445)			
Weight	Net			124 (56)			
	Gross		lb (kg)	141 (64)			
Connection pipe	Size	Liquid	in (mm)	Ø1/4 (Ø6.35) × 3			
		Gas		Ø3/8 (Ø9.52) × 2 + Ø1/2 (Ø12.7) × 1			
	Method		ft (m)	Flare			
	Pre-charge length (Total)			98 (30)			
	Max. length (Total)			164 (50)			
	Max. length (Each)			82 (25)			
	Min. length (Total)			49 (15)			
	Min. length (Each)			16 (5)			
	Max. height difference between outdoor unit and each indoor units			49 (15)			
	Max. height difference between indoor units			33 (10)			
Operation range	Cooling	°F (°C)	14 to 115 (-10 to 46)				
	Heating		5 to 75 (-15 to 24)				

Type	Inverter heat pump
Model name	AOU24RLXFZ
NOTES: - Specifications are based on the following conditions: - Cooling: Indoor temperature of 80°FDB (26.7°CDB)/67°F WB (19.4°CWB), and outdoor temperature of 95 °FDB (35°CDB)/75°F WB (23.9°CWB). - Heating: Indoor temperature of 70°FDB (21.1°CDB)/60°F WB (15.6°CWB), and outdoor temperature of 47 °FDB (8.3°CDB)/43°F WB (6.1°CWB). *1: Heating (17°F): Indoor temperature of 70°FDB (21.1°CDB) /60°F WB (15.6°CWB), and outdoor temperature of 17°FDB (-8.33°CDB) /15°F WB (-9.44°CWB). *2: Heating (5°F): Indoor temperature of 70°FDB (21.1°CDB)/60°F WB (15.6°CWB), and outdoor temperature of 5°FDB (-15.0°CDB)/4°F WB (-15.56°CWB). - Test conditions are based on AHRI 210/240 2023. - Pipe length: 24.6 ft (7.5 m), Height difference: 0 ft (0 m). (Between outdoor unit and indoor unit.) - Protective function might work when using it outside the operation range. *3: Maximum current: - The maximum value when operated within the operation range. - The total current of indoor unit and outdoor unit. *4: 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.	

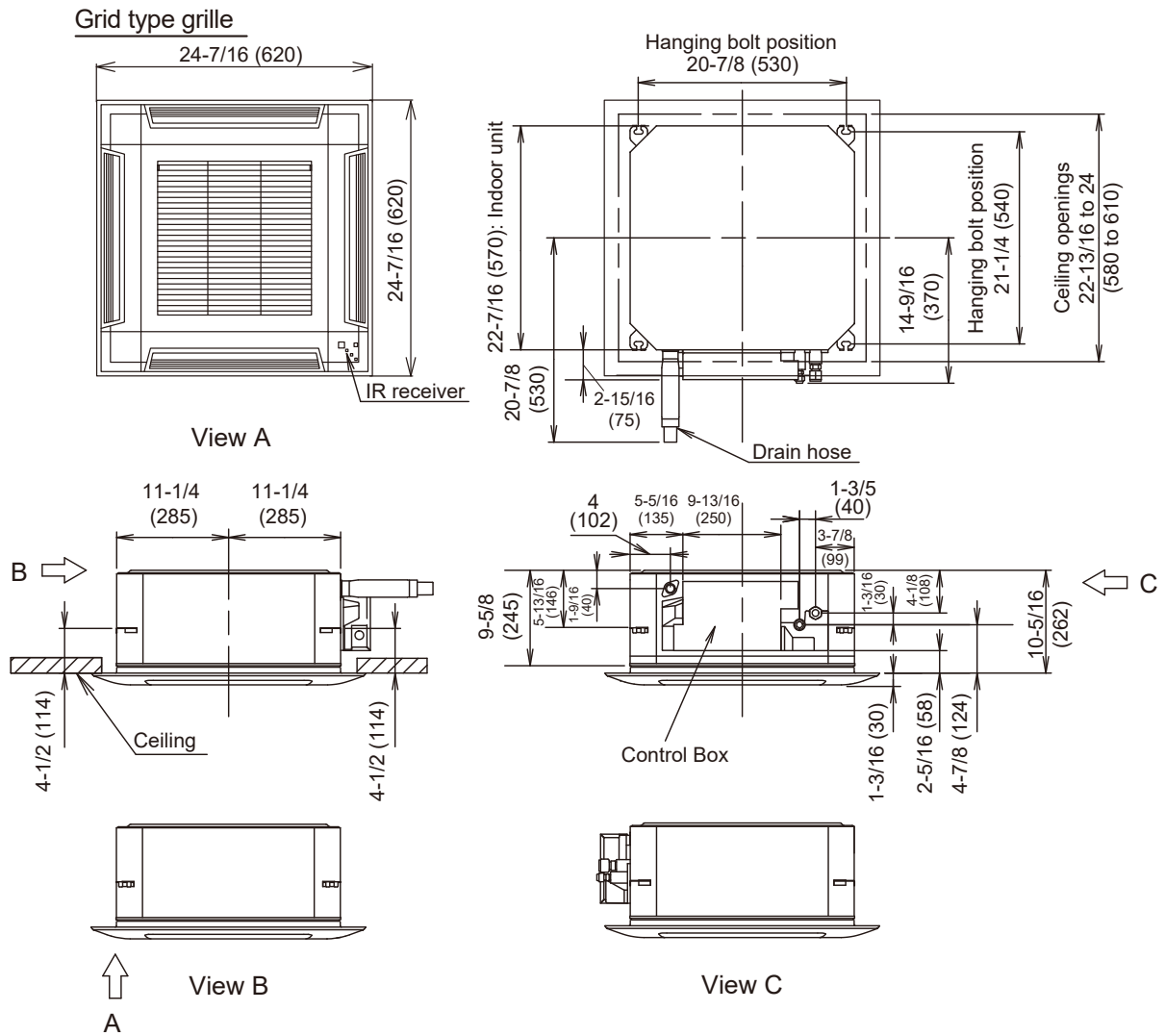
M condition								
Model name				AOU24RLXFZ				
Capacity	Cooling	Rated	Btu/h	22,000				
			kW	6.42				
		Min.—Max.	Btu/h	6,100—27,000	6,100—25,000	6,100—26,000		
			kW	1.8—7.9	1.8—7.3	1.8—7.6		
		Heating	Rated	Btu/h	24,000			
				kW	7.02			
	Min.—Max.		Btu/h	6,800—29,800	6,800—27,400	6,800—28,600		
			kW	2.0—8.7	2.0—8.0	2.0—8.4		
	Heating (17°F)*	Rated	Btu/h	14,100				
			kW	4.13				
		Min.—Max.	Btu/h	4,000—19,900	4,000—19,000	4,000—19,450		
			kW	1.17—5.83	1.17—5.57	1.17—5.70		
Input power		Cooling	Rated	kW	1.76	2.08	—	
			Max.		2.60	2.84	—	
	Heating	Rated	1.73		2.05	—		
		Max.	2.93		—			
	Heating (17°F)*	Rated	1.50		1.69	—		
		Max.	2.62		2.86	—		
	Current	Cooling	Rated		A	7.7	9.1	8.4
		Heating				7.6	9.0	8.3
EER	Cooling	Rated	Btu/hW	12.50	10.60	11.55		
SEER	Cooling		Btu/hW	18.00	15.50	16.75		
COP	Heating	Rated	kW/kW	4.04	3.42	3.73		
HSPF	Heating		Btu/hW	9.50	9.00	9.25		
Power factor	Cooling	Rated	%	99.4	99.3	—		
	Heating			99.0		—		
NOTES:								
- Specifications are based on the following conditions: - Power source of specifications : 230 V - Pipe length: 24.6 ft (7.5 m), Height difference: 0 ft (0 m) (Between outdoor unit and indoor unit.) - Cooling: Indoor temperature of 80°FDB (26.7°CDB)/67°FWB (19.4°CWB), and outdoor temperature of 95 °FDB (35°CDB)/75°FWB (23.9°CWB). - Heating: Indoor temperature of 70°FDB (21.1°CDB)/60°FWB (15.6°CWB), and outdoor temperature of 47 °FDB (8.3°CDB)/43°FWB (6.1°CWB). *: Heating (17°F): Indoor temperature of 70°FDB (21.1°CDB)/60°FWB (15.56°CWB), and outdoor temperature of 17°FDB (-8.33°CDB)/15°FWB (-9.44°CWB). - Test conditions are based on AHRI 210/240 2017. - For other combination, refer to the combination table. - The protective function might work when using it outside the operation range.								

Dimensions (Indoor unit)

1. Compact cassette type

■ Models: ACUH07LUAS1, ACUH09LUAS1, ACUH12LUAS1, and ACUH18LUAS1

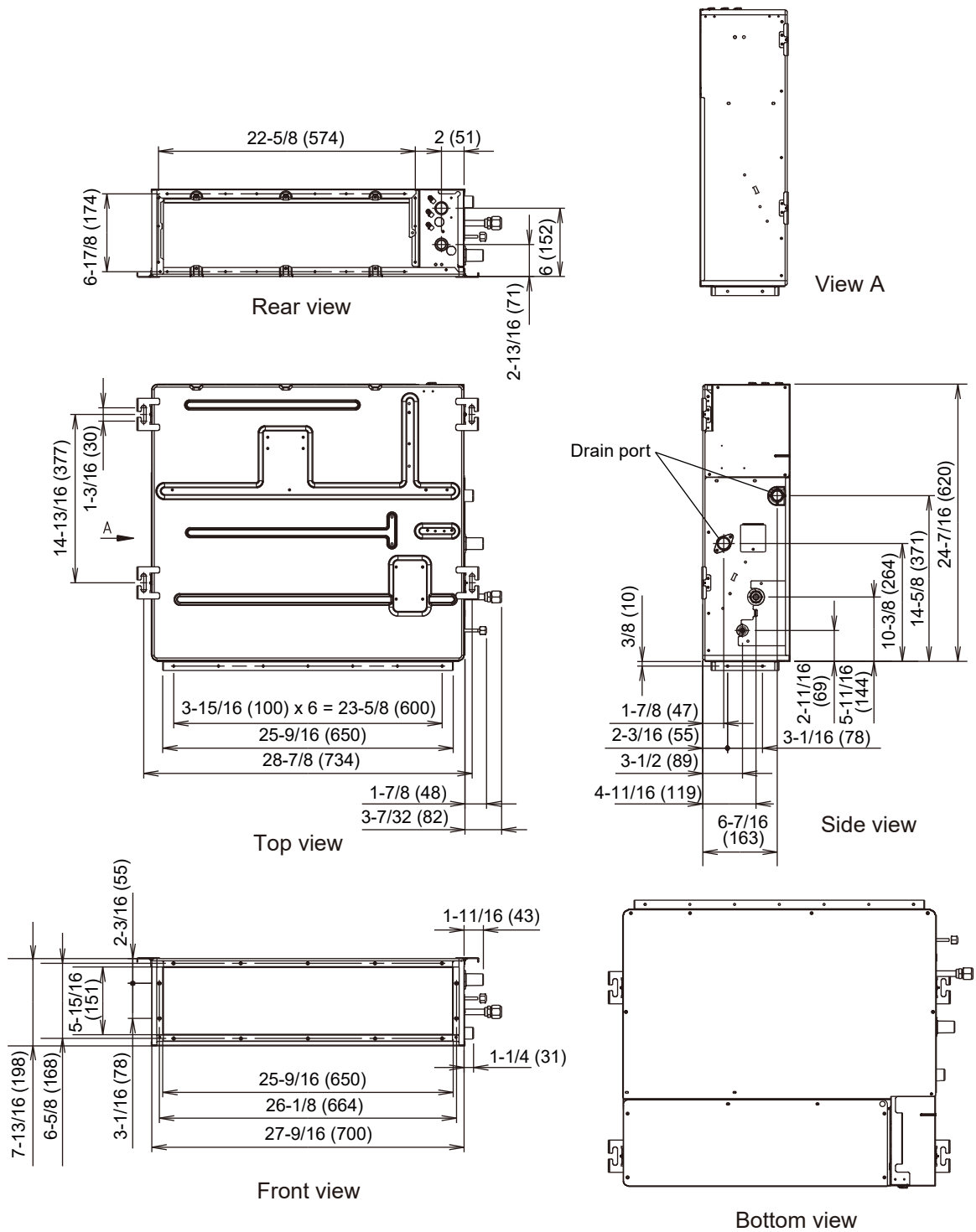
Unit: in (mm)



2. Slim duct type

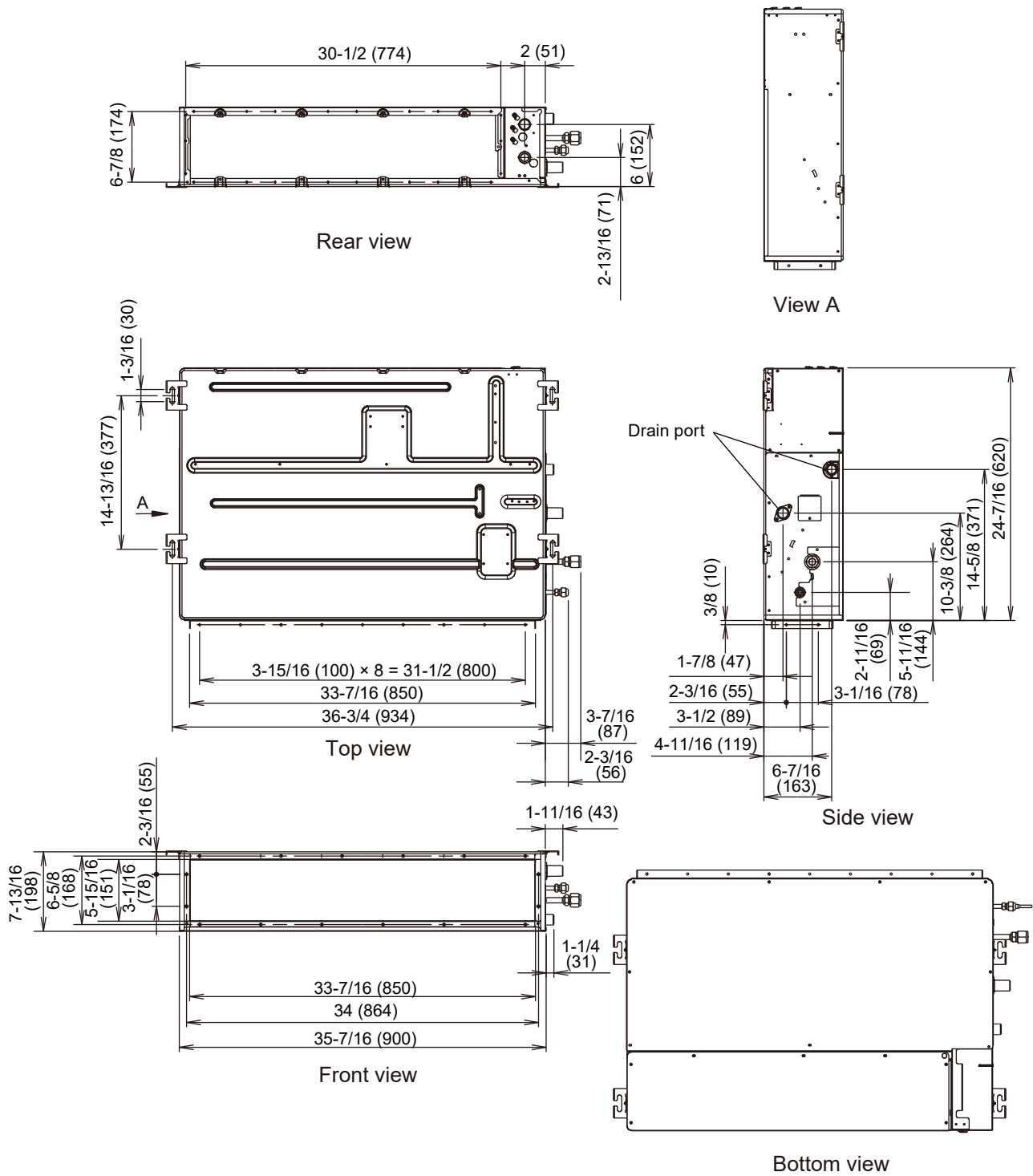
■ Models: ADUH07LUAS1, ADUH09LUAS1, and ADUH12LUAS1

Unit: in (mm)



■ Model: ADUH18LUAS1

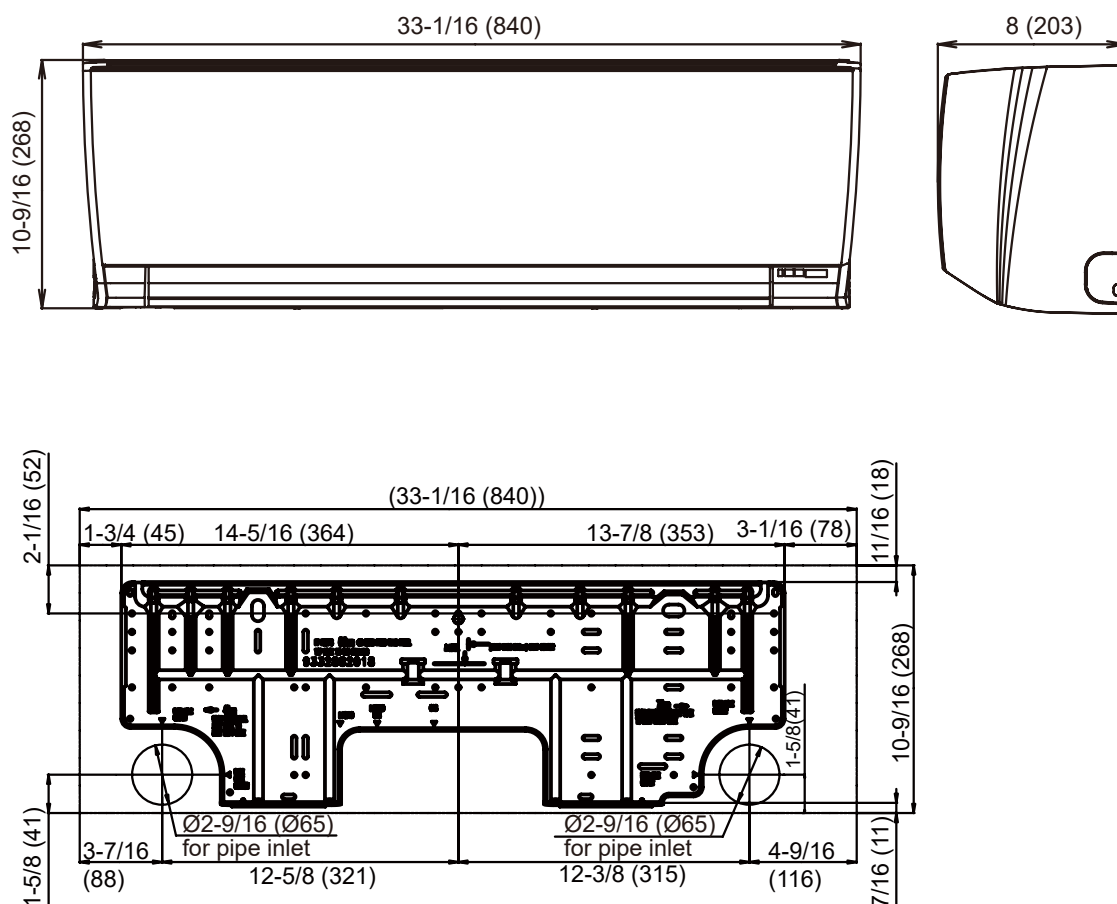
Unit: in (mm)



3. Wall mounted type

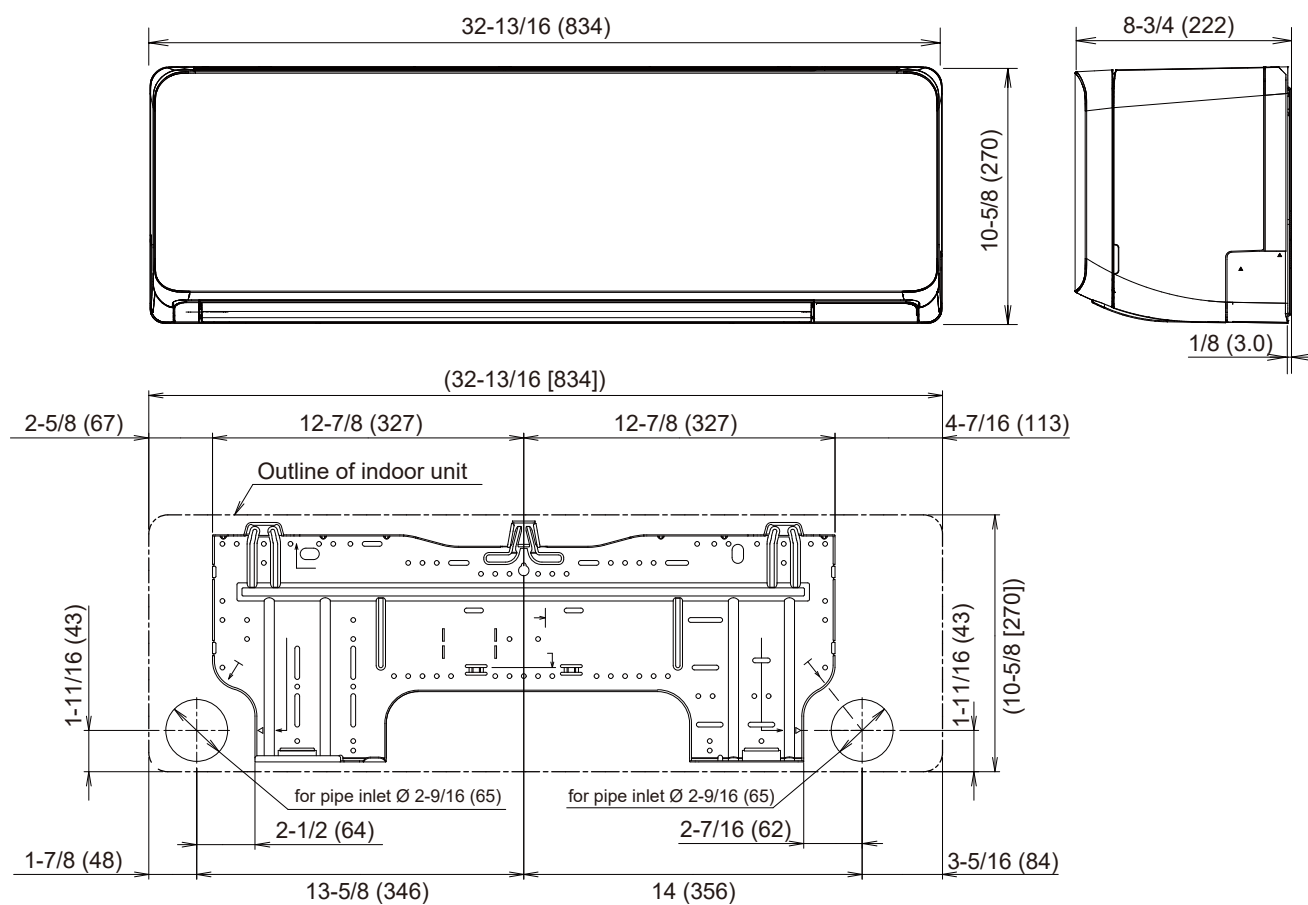
■ Models: ASU7RLF1, ASU9RLF1, ASU12RLF1, and ASU15RLF1

Unit: in (mm)



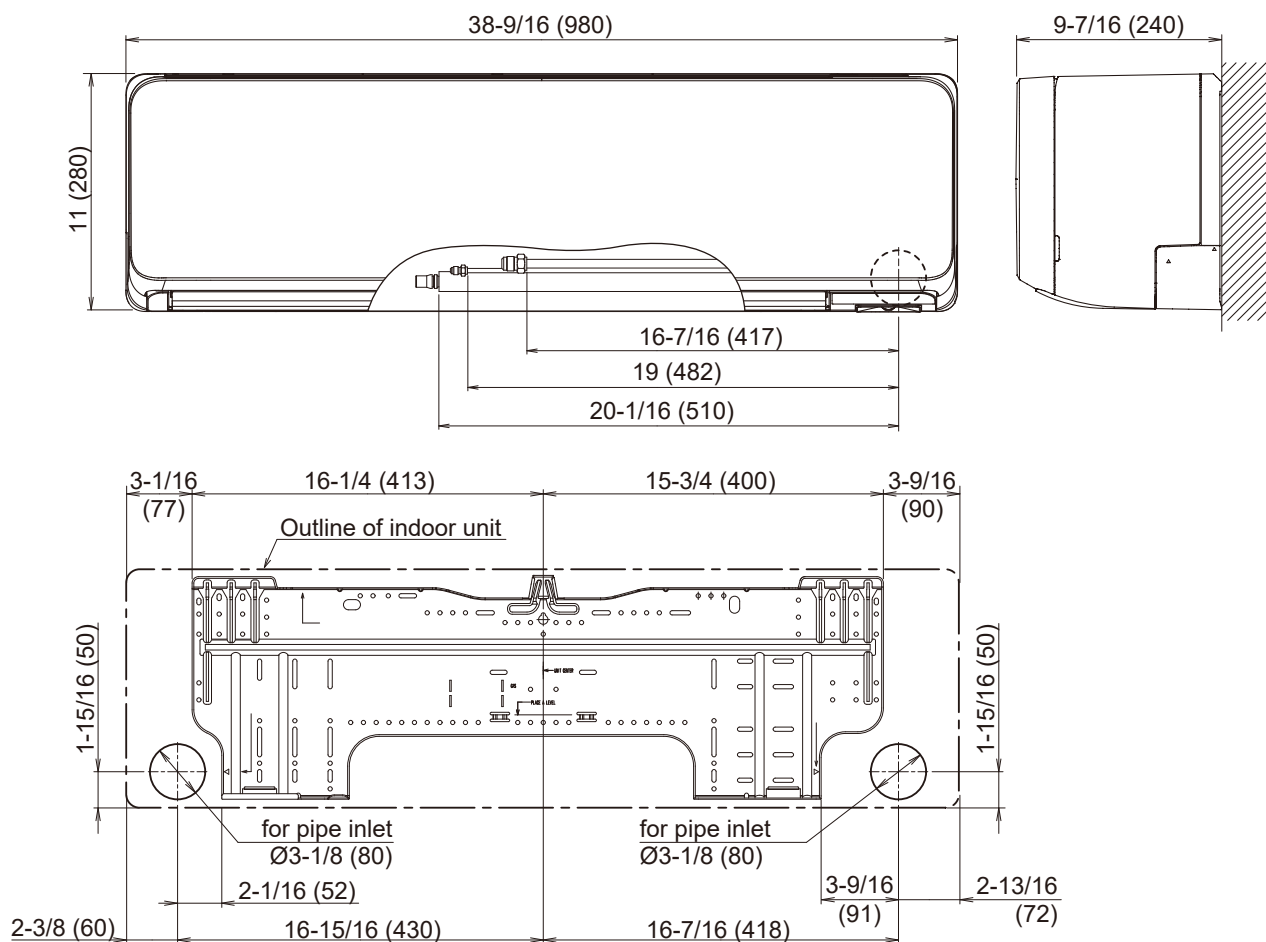
■ Models: ASUH07LPAS, ASUH09LPAS, ASUH12LPAS, and ASUH15LPAS

Unit: in (mm)



■ Model: ASUH18LPAS

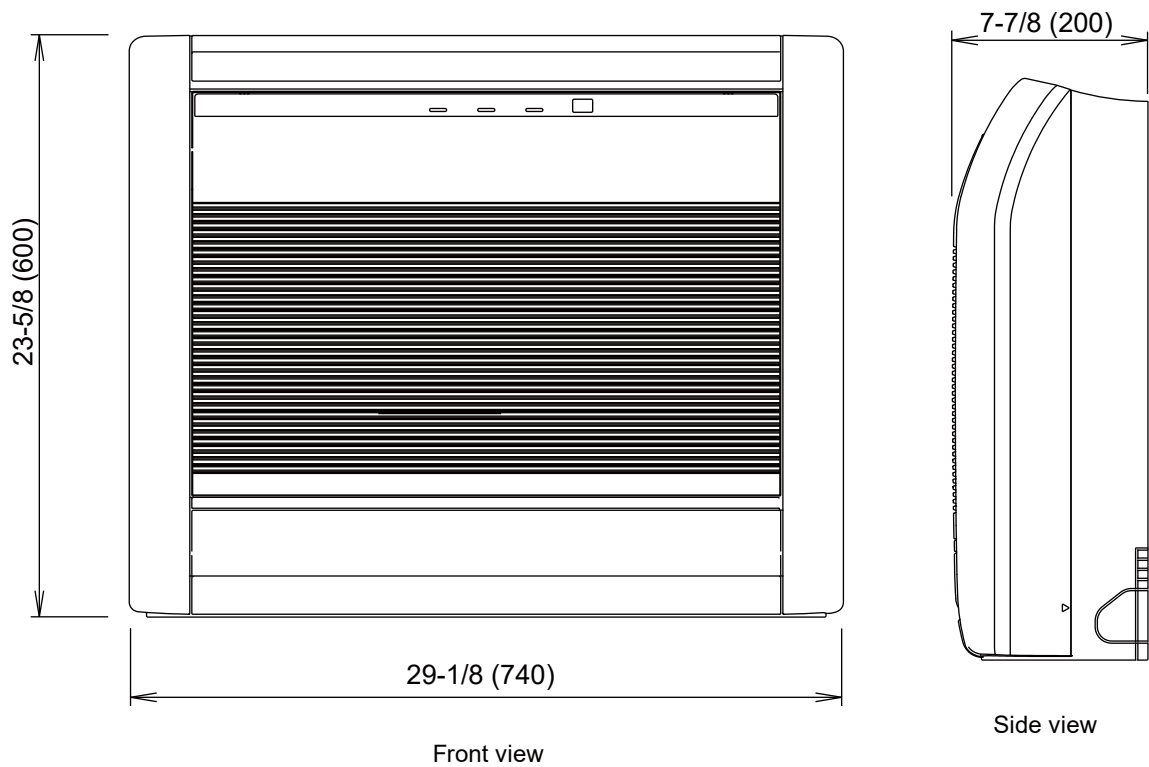
Unit: in (mm)



4. Floor type

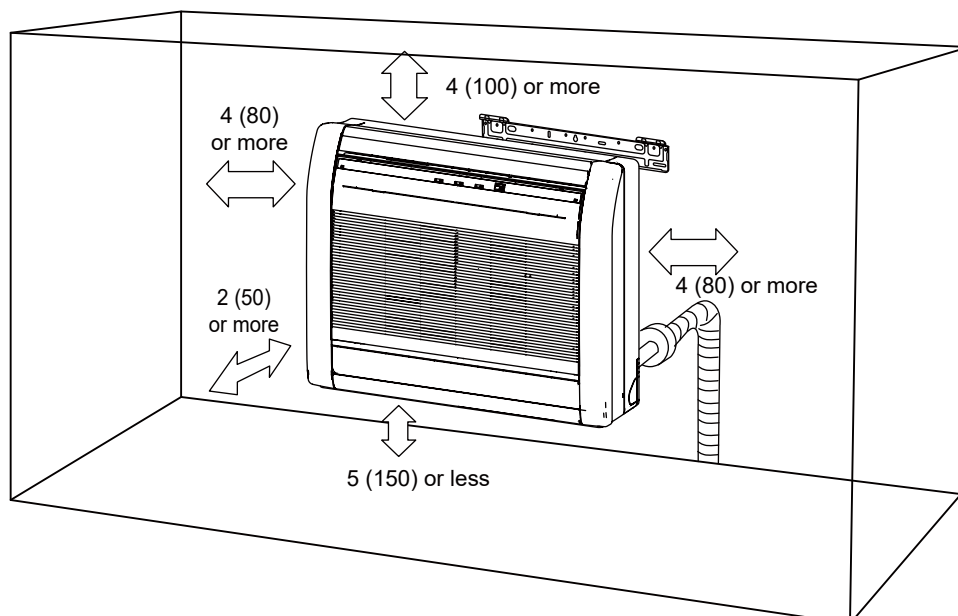
■ Models: AGU9RLF, AGU12RLF, and AGU15RLF

Unit: in (mm)



■ Installation space requirement

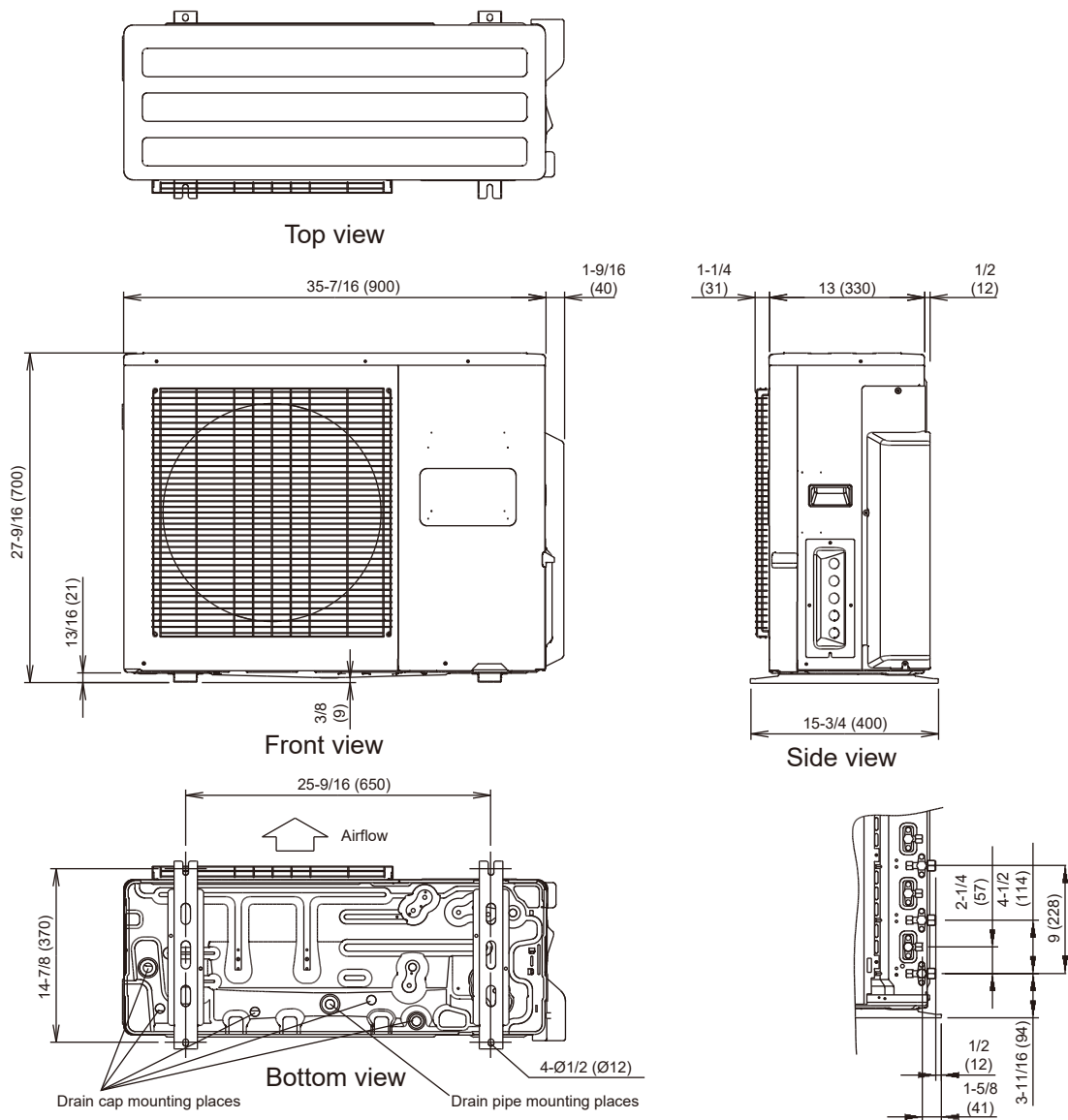
Unit: in (mm)



Dimensions (Outdoor unit)

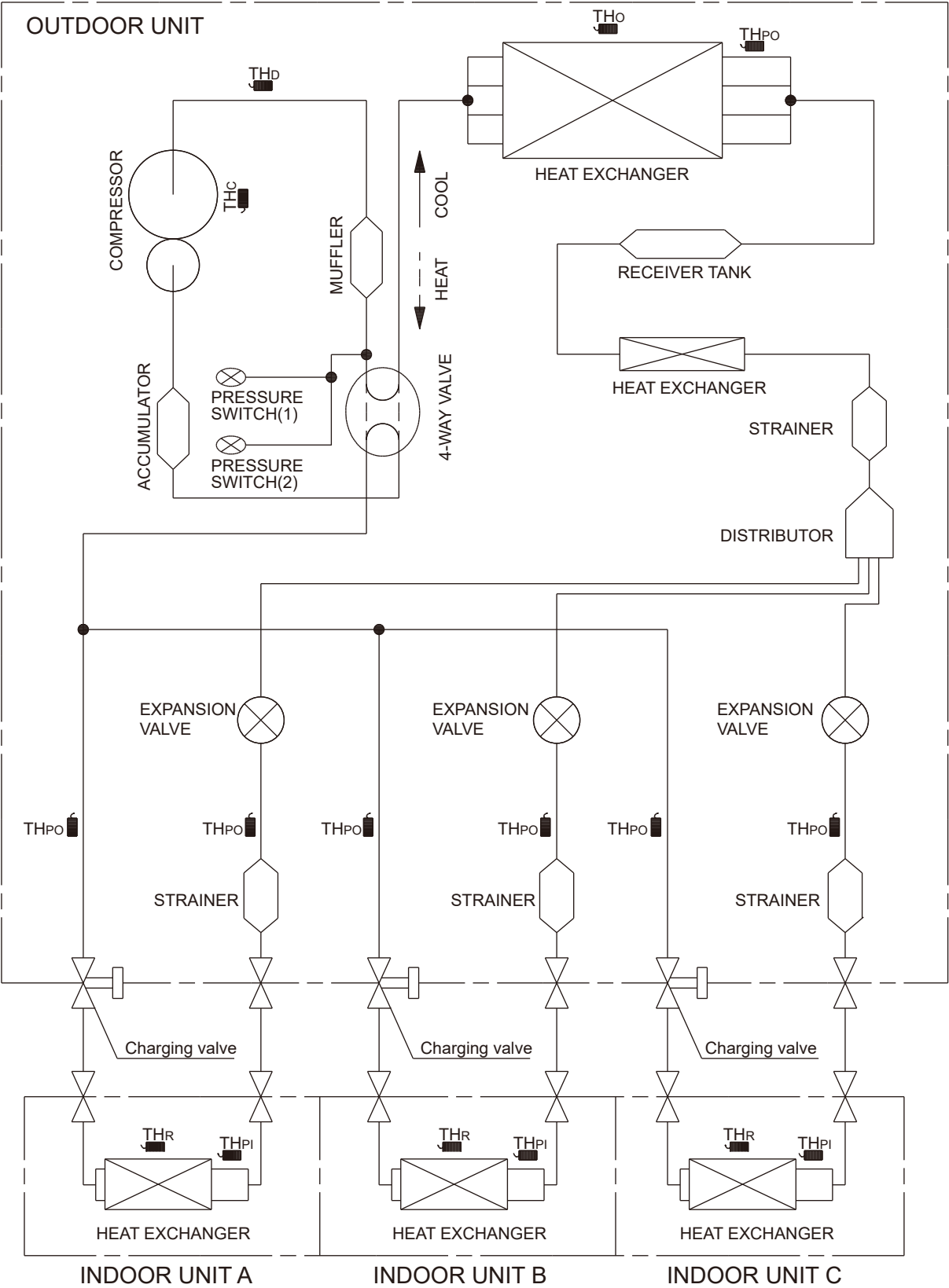
Model: AOU24RLXFZ

Unit: in (mm)



Refrigerant circuit

Model: AOU24RLXFZ



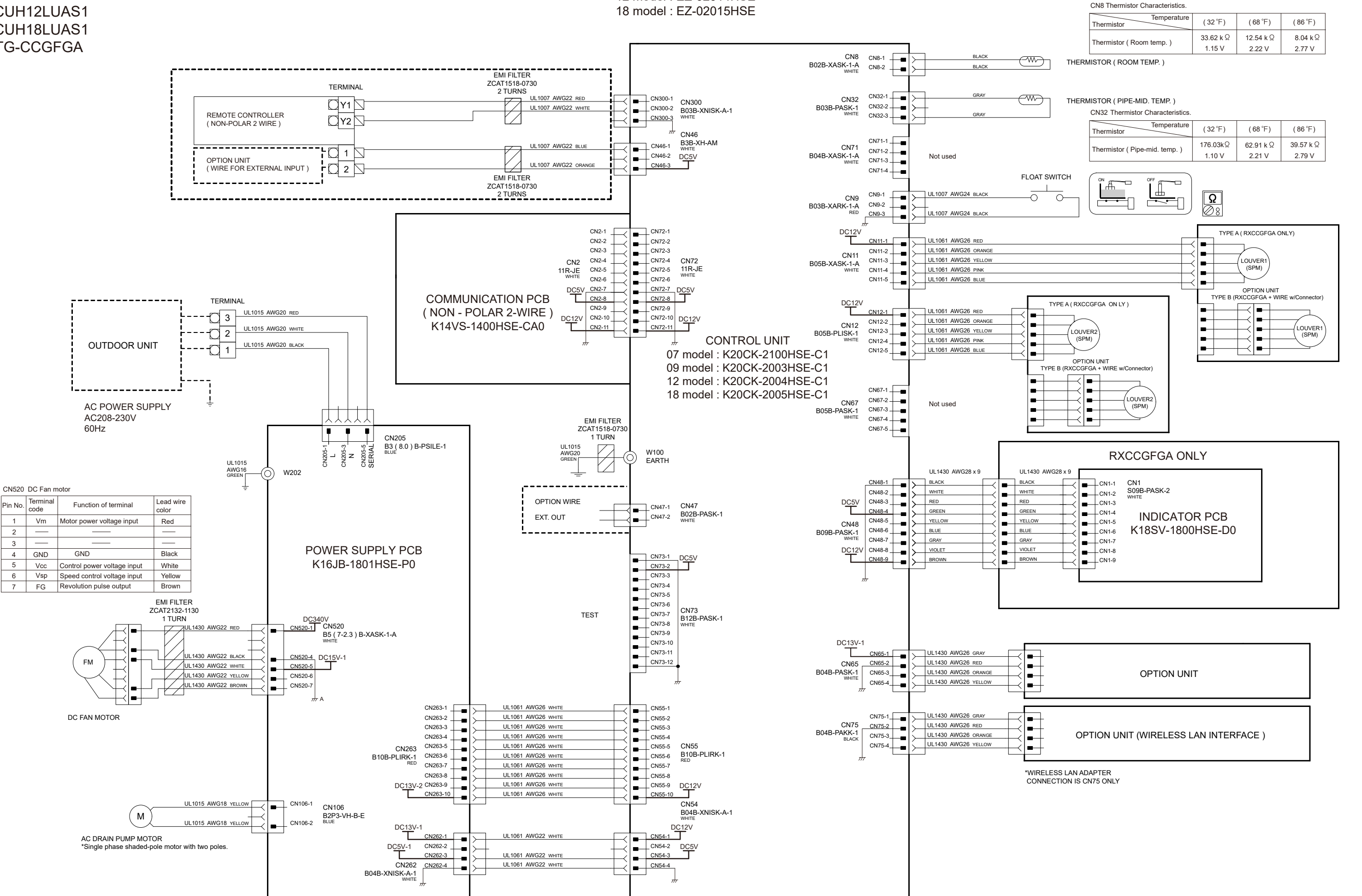
TH_d : Thermistor (Discharge temperature)
TH_o : Thermistor (Outdoor temperature)
TH_{po} : Thermistor (Pipe temperature)
TH_c : Thermistor (Compressor temperature)

TH_R : Thermistor (Room temperature)
TH_{PI} : Thermistor (Pipe temperature)

PCB Circuit diagram

INDOOR UNIT
ACUH07LUAS1
ACUH09LUAS1
ACUH12LUAS1
ACUH18LUAS1
UTG-CCGFGA

CONTROL UNIT
07 model : EZ-021BHSE
09 model : EZ-02013HSE
12 model : EZ-02014HSE
18 model : EZ-02015HSE



CN8 Thermistor Characteristics.

Thermistor	Temperature	(32 °F)	(68 °F)	(86 °F)
Thermistor (Room temp.)		33.62 k Ω	12.54 k Ω	8.04 k Ω
		1.15 V	2.22 V	2.77 V

CN32 Thermistor Characteristics.

Thermistor	Temperature	(32 °F)	(68 °F)	(86 °F)
Thermistor (Pipe-mid. temp.)		176.03k Ω	62.91 k Ω	39.57 k Ω
		1.10 V	2.21 V	2.79 V

CN520 DC Fan motor

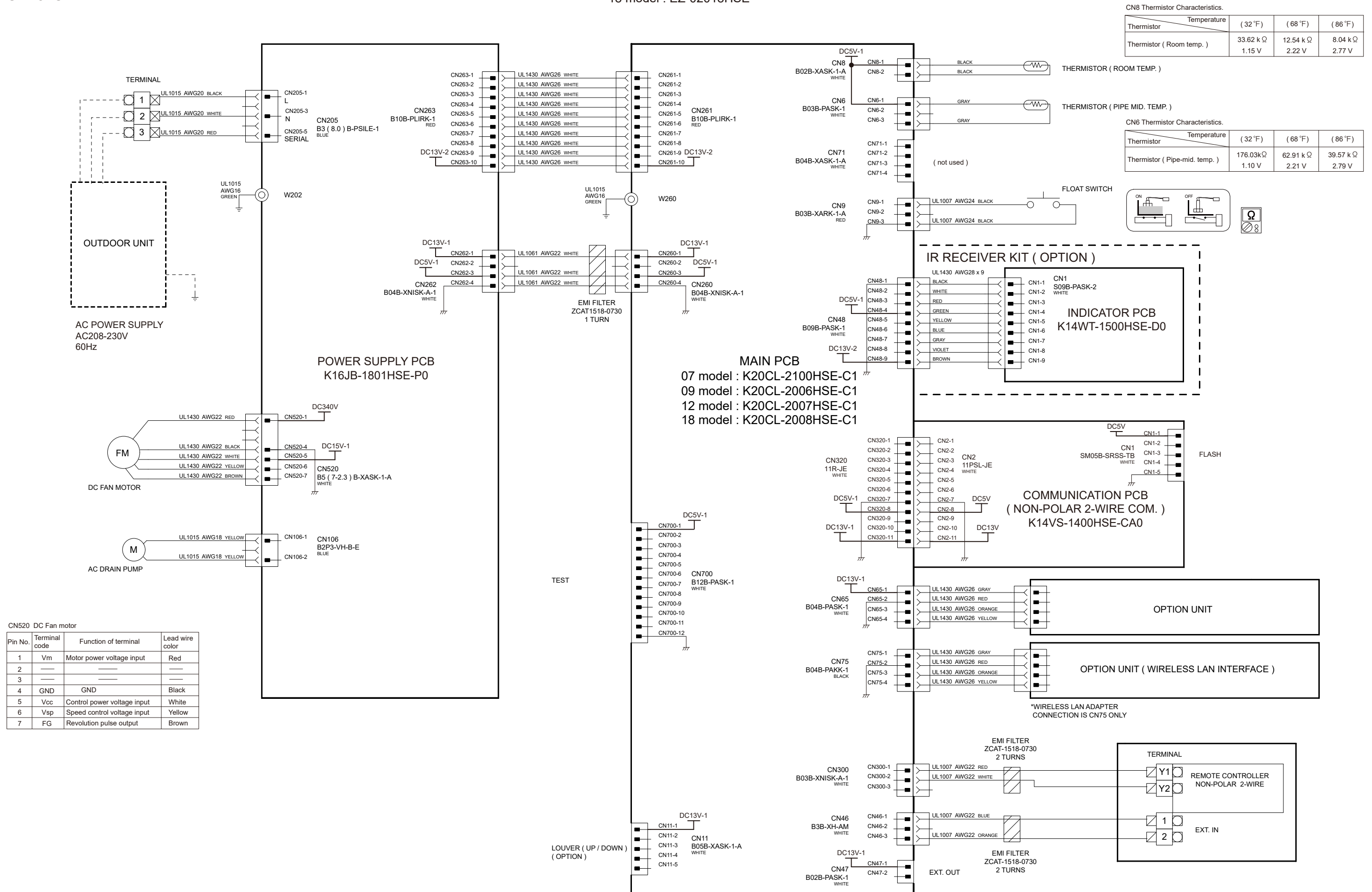
Pin No.	Terminal code	Function of terminal	Lead wire color
1	Vm	Motor power voltage input	Red
2	—	—	—
3	—	—	—
4	GND	GND	Black
5	Vcc	Control power voltage input	White
6	Vsp	Speed control voltage input	Yellow
7	FG	Revolution pulse output	Brown

AC DRAIN PUMP MOTOR
*Single phase shaded-pole motor with two poles.

*WIRELESS LAN ADAPTER
CONNECTION IS CN75 ONLY

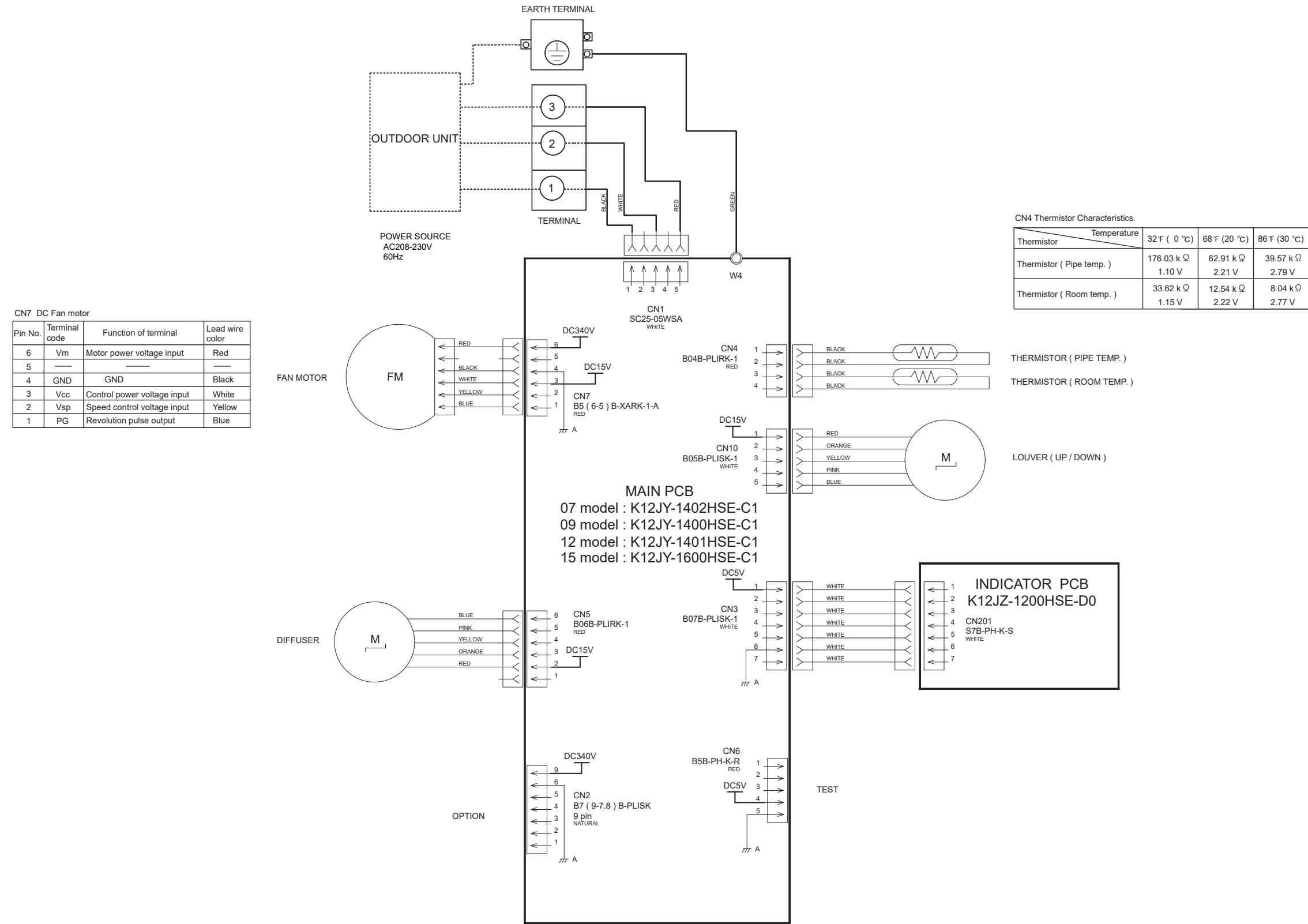
INDOOR UNIT
ADUH07LUAS1
ADUH09LUAS1
ADUH12LUAS1
ADUH18LUAS1

CONTROL UNIT
07 model : EZ-021EHSE
09 model : EZ-02016HSE
12 model : EZ-02017HSE
18 model : EZ-02018HSE



INDOOR UNIT
ASU7RLF1
ASU9RLF1
ASU12RLF1
ASU15RLF1

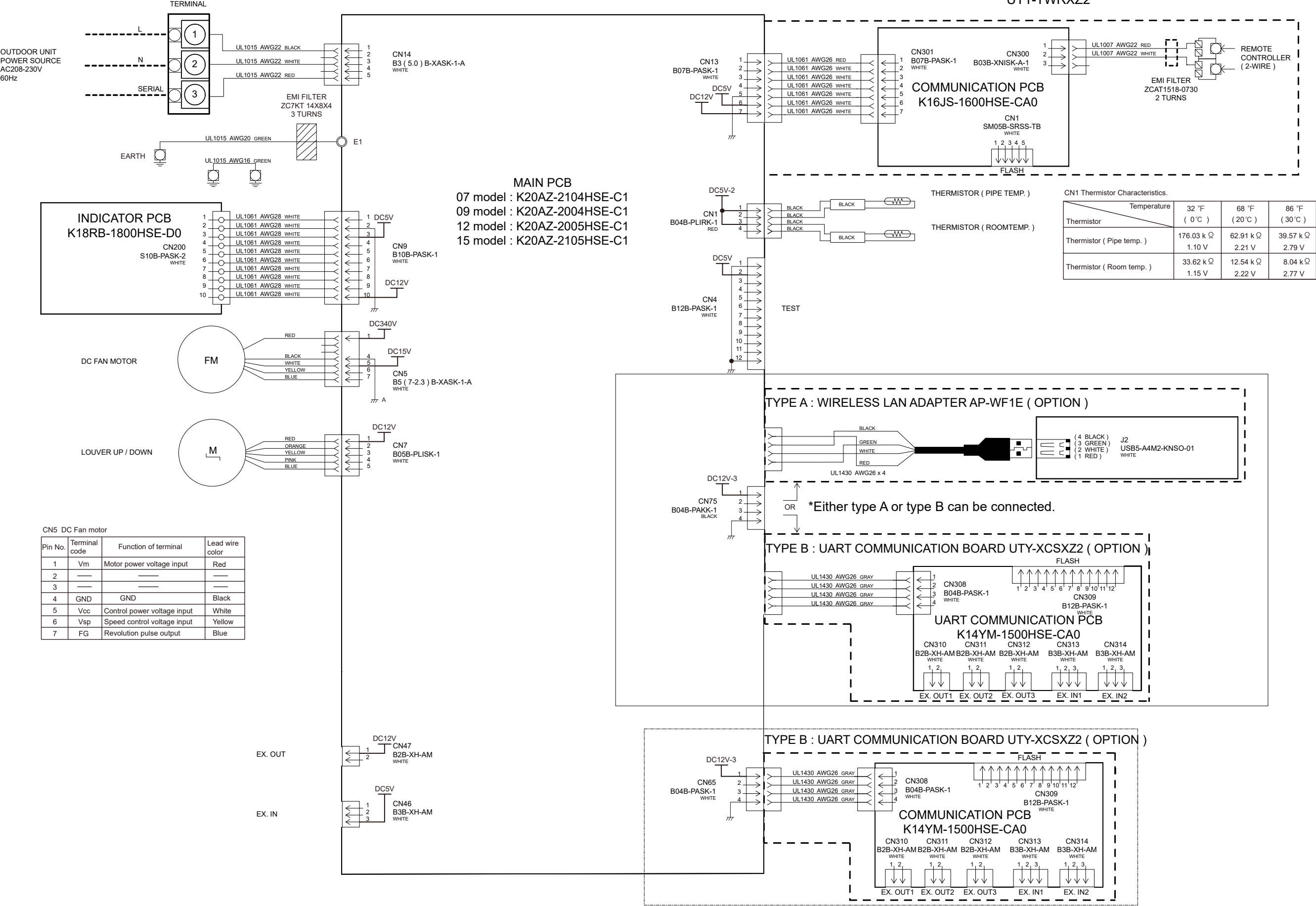
CONTROL UNIT
07 model : EZ-0131DHSE
09 model : EZ-0130WHSE
12 model : EZ-0130YHSE
15 model : EZ-0160SHSE



INDOOR UNIT
ASUH07LPAS
ASUH09LPAS
ASUH12LPAS
ASUH15LPAS

CONTROL UNIT
07 model : EZ-021GHSE
09 model : EZ-0201CHSE
12 model : EZ-0201DHSE
15 model : EZ-021HHSE

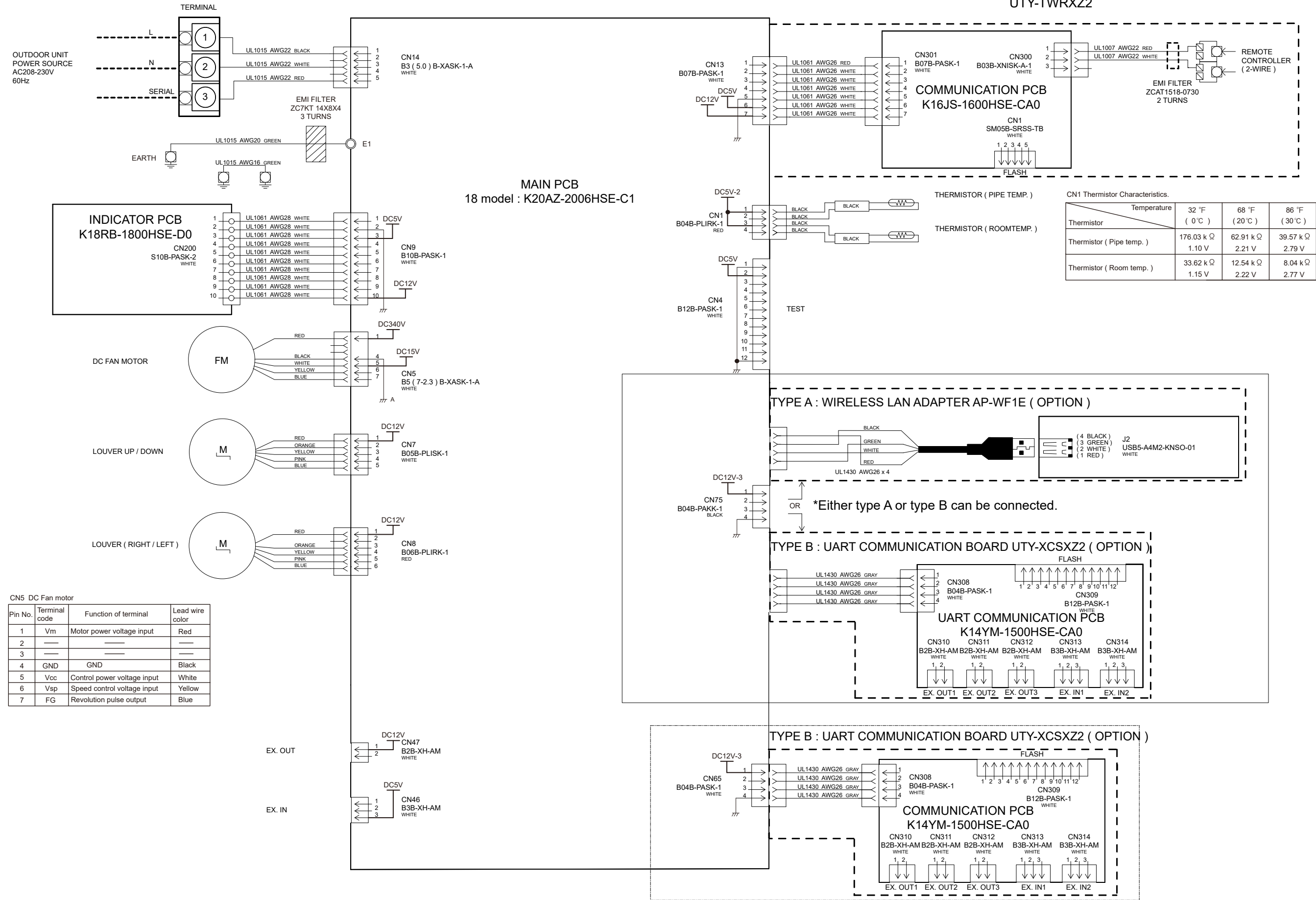
2-WIRE REMOTE CONTROL UNIT (OPTION)
UTY-TWRXZ2



INDOOR UNIT
ASUH18LPAS

CONTROL UNIT
18 model : EZ-0201KHSE

2-WIRE REMOTE CONTROL UNIT (OPTION)
UTY-TWRXZ2



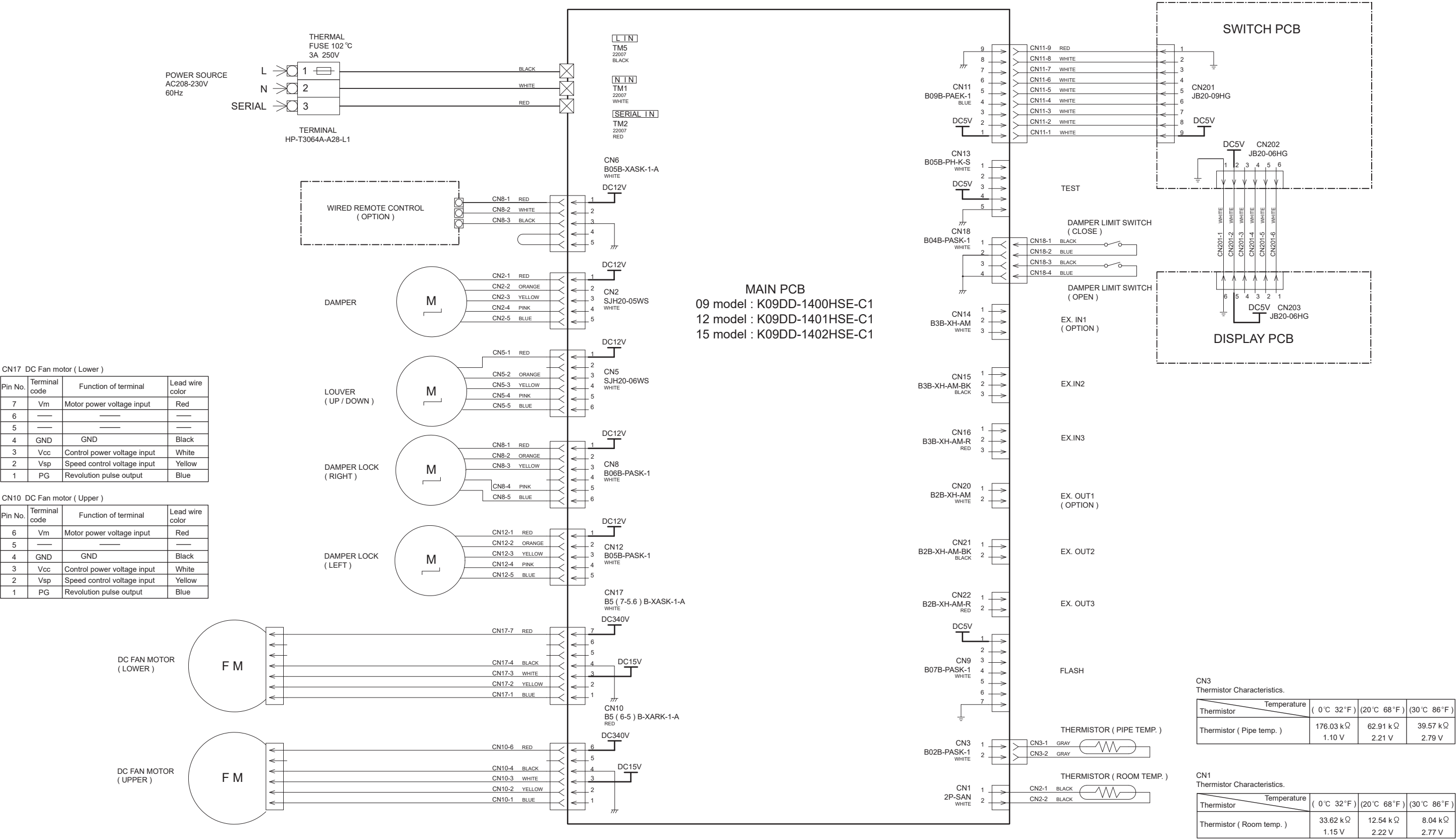
CN5 DC Fan motor

Pin No.	Terminal code	Function of terminal	Lead wire color
1	Vm	Motor power voltage input	Red
2	—	—	—
3	—	—	—
4	GND	GND	Black
5	Vcc	Control power voltage input	White
6	Vsp	Speed control voltage input	Yellow
7	FG	Revolution pulse output	Blue

INDOOR UNIT
AGU9RLF
AGU12RLF
AGU15RLF

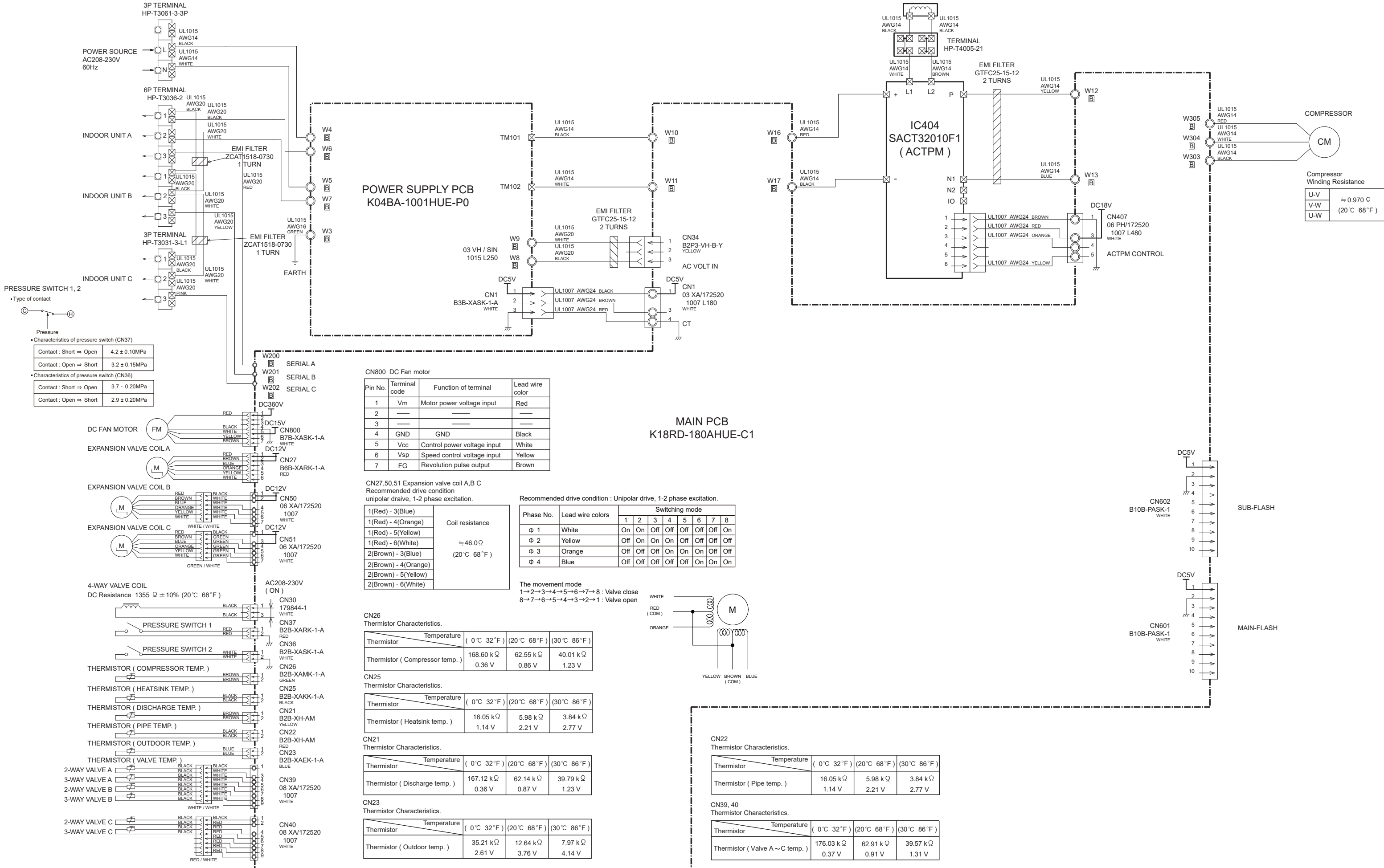
CONTROL UNIT
09 model : EZ-01302HSE
12 model : EZ-01303HSE
15 model : EZ-01304HSE

INDICATOR PCB (SWITCH + DISPLAY)
K06DD-0801HSE-F0



OUTDOOR UNIT
AOU24RLXFZ

INVERTER ASSEMBLY
24 model : EZ-01003HUE



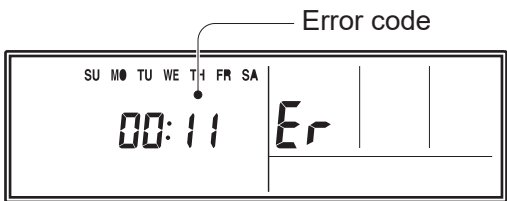
Error detection

INDOOR UNIT and WIRED REMOTE CONTROL

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

This is possible only on a wired remote control.

If an error occurs, the following display will be shown.
("Er" will appear in the set room temperature display.)



EX. Self-diagnosis

● : 0.5s on / 0.5s off

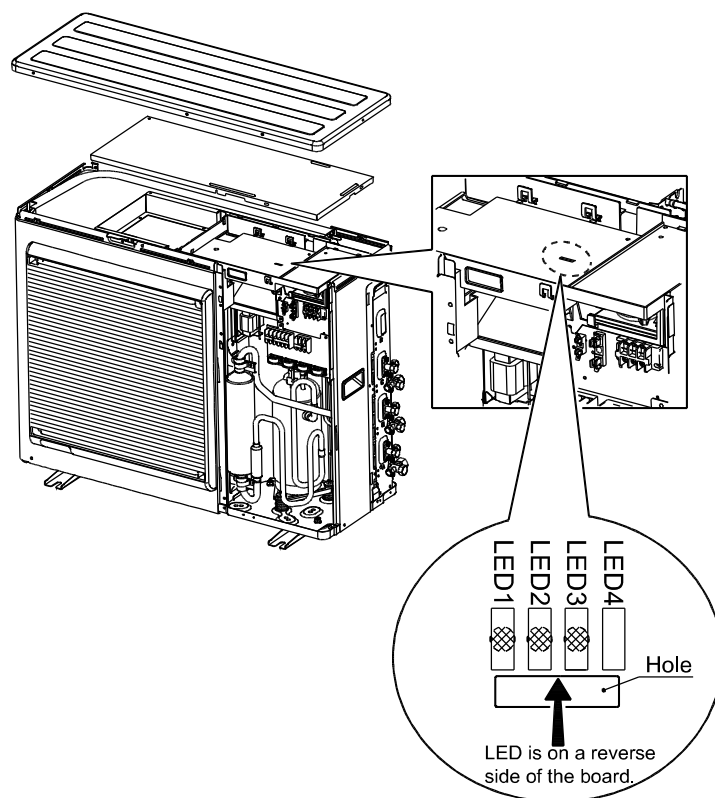
◇ : 0.1s on / 0.1s off

() : Number of flashing

Indoor unit			Wired remote control	Description
OPERATION lamp (green)	TIMER lamp (orange)	ECONOMY lamp (green)		
●(1)	●(1)	◇	11	Serial communication error
●(1)	●(2)	◇	12	Wired remote control communication error
●(1)	●(5)	◇	15	Check run unfinished
●(2)	●(1)	◇	21	Unit number or Refrigerant circuit address setting error [Simultaneous Multi]
●(2)	●(2)	◇	22	Indoor unit capacity error
●(2)	●(3)	◇	23	Combination error
●(2)	●(4)	◇	24	• Connection unit number error (indoor slave unit) [Simultaneous Multi] • Connection unit number error (indoor unit or branch unit) [Flexible Multi]
●(2)	●(7)	◇	27	Master unit, slave unit set-up error [Simultaneous Multi]
●(3)	●(2)	◇	32	Indoor unit PCB model information error
●(3)	●(5)	◇	35	Manual auto switch error
●(4)	●(1)	◇	41	Inlet air temp. sensor error
●(4)	●(2)	◇	42	Indoor unit Heat Ex. Middle temp. sensor error
●(5)	●(1)	◇	51	Indoor unit fan motor error
●(5)	●(3)	◇	53	Drain pump error
●(5)	●(7)	◇	57	Damper error
●(5)	●(15)	◇	50	Indoor unit error
●(6)	●(2)	◇	62	Outdoor unit main PCB model information error or communication error
●(6)	●(3)	◇	63	Inverter error
●(6)	●(4)	◇	64	Active filter error, PFC circuit error
●(6)	●(5)	◇	65	Trip terminal L error

Indoor unit			Wired remote control	Description
OPERATION lamp (green)	TIMER lamp (orange)	ECONOMY lamp (green)		
●(6)	●(10)	◇	6A	Display PCB microcomputers communication error
●(7)	●(1)	◇	71	Discharge temp. sensor error
●(7)	●(2)	◇	72	Compressor temp. sensor error
●(7)	●(3)	◇	73	Outdoor unit Heat Ex. liquid temp. sensor error
●(7)	●(4)	◇	74	Outdoor temp. sensor error
●(7)	●(5)	◇	75	Suction Gas temp. sensor error
●(7)	●(6)	◇	76	• 2-way valve temp. sensor error • 3-way valve temp. sensor error
●(7)	●(7)	◇	77	Heat sink temp. sensor error
●(8)	●(2)	◇	82	• Sub-cool Heat Ex. gas inlet temp. sensor error • Sub-cool Heat Ex. gas outlet temp. sensor error
●(8)	●(3)	◇	83	Liquid pipe temp. sensor error
●(8)	●(4)	◇	84	Current sensor error
●(8)	●(6)	◇	86	• Discharge pressure sensor error • Suction pressure sensor error • High pressure switch error
●(9)	●(4)	◇	94	Trip detection
●(9)	●(5)	◇	95	Compressor rotor position detection error (permanent stop)
●(9)	●(7)	◇	97	Outdoor unit fan motor error
●(9)	●(9)	◇	99	4-way valve error
●(10)	●(1)	◇	A1	Discharge temp. error
●(10)	●(3)	◇	A3	Compressor temp. error
●(10)	●(4)	◇	A4	High pressure error
●(10)	●(5)	◇	A5	Low pressure error
●(13)	●(2)	◇	J2	Branch boxes error [Flexible Multi]

OUTDOOR UNIT AOU24RLXFZ



Error contents	LED1	LED2	LED3
Serial Communication error (Outdoor unit to Indoor unit A)	● 1 time	—	—
Serial Communication error (Outdoor unit to Indoor unit B)	—	● 1 time	—
Serial Communication error (Outdoor unit to Indoor unit C) ^{*1}	—	—	● 1 time
Discharge temp. sensor error	● 2 times	—	—
Outdoor unit Heat Ex. middle temp. sensor error	● 3 times	—	—
Outdoor temp. sensor error	● 4 times	—	—
2-way valve temp. sensor error (for Indoor unit A)	● 5 times	—	—
2-way valve temp. sensor error (for Indoor unit B)	—	● 5 times	—
2-way valve temp. sensor error (for Indoor unit C) ^{*1}	—	—	● 5 times
3-way valve temp. sensor error (for Indoor unit A)	● 6 times	—	—
3-way valve temp. sensor error (for Indoor unit B)	—	● 6 times	—
3-way valve temp. sensor error (for Indoor unit C) ^{*1}	—	—	● 6 times
Compressor temp. sensor error	● 7 times	—	—
Heat sink temp. sensor error	● 8 times	—	—
High pressure switch 1 error	● 9 times	—	—
High pressure switch 2 error	● 10 times	—	—
Indoor unit capacity error	● 11 times	—	—
Trip detection	● 12 times	—	—
Compressor rotor position detection error	● 13 times	—	—
Trip terminal L error	● 14 times	—	—
Outdoor unit fan motor error	● 15 times	—	—
Outdoor unit PCB microcomputer communication error	● 17 times	—	—
Discharge temperature error	● 18 times	—	—
Compressor temperature error	● 19 times	—	—
4-way valve error	● 20 times	—	—
Outdoor unit PCB model information error	● 21 times	—	—
Active filter error, PFC circuit error	● 22 times	—	—

● : flashing — : Off

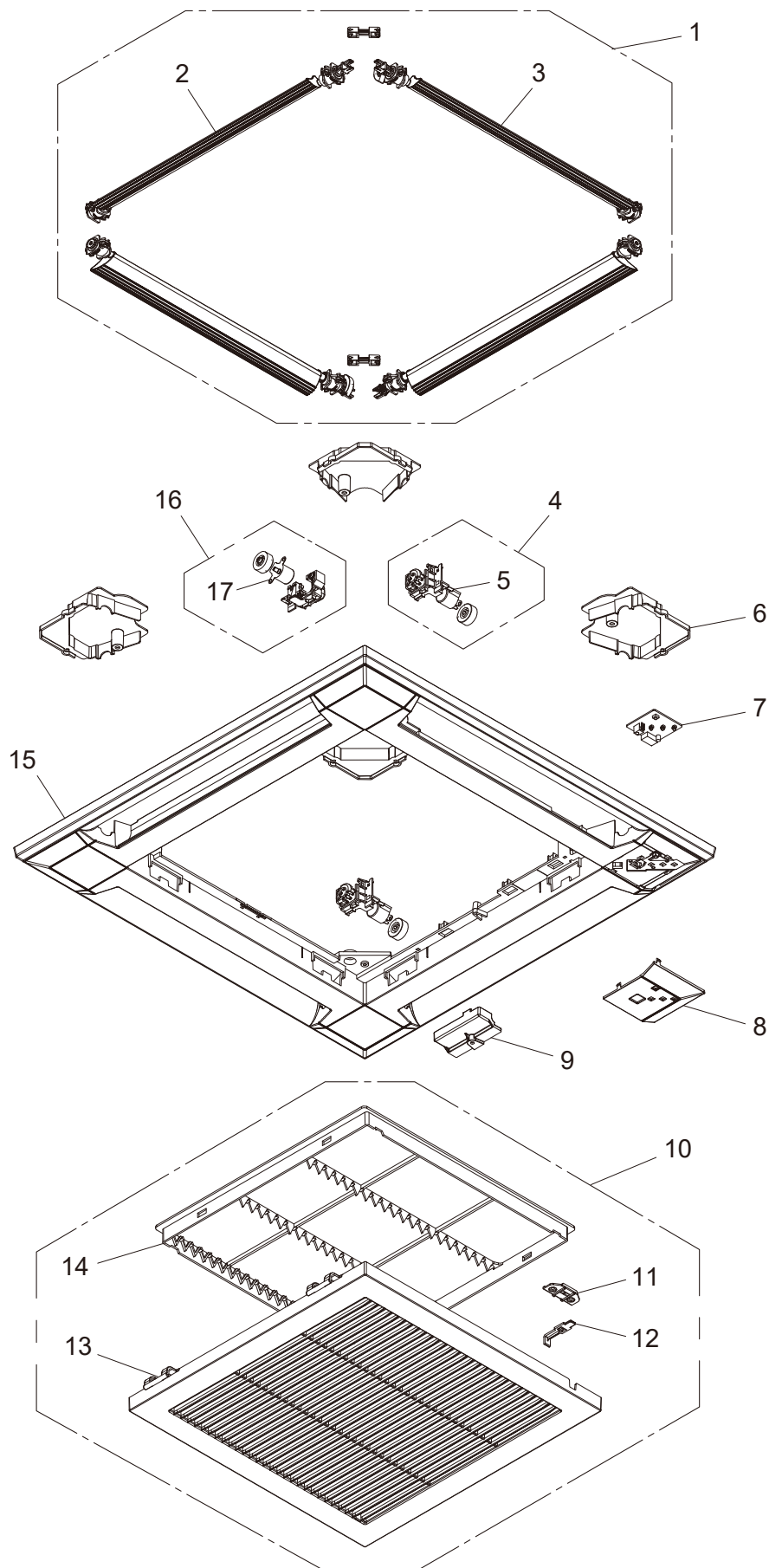
*1: 24 type only

Parts list

Cassette grille (optional part) parts list

Model: UTG-CCGFGA

Overall

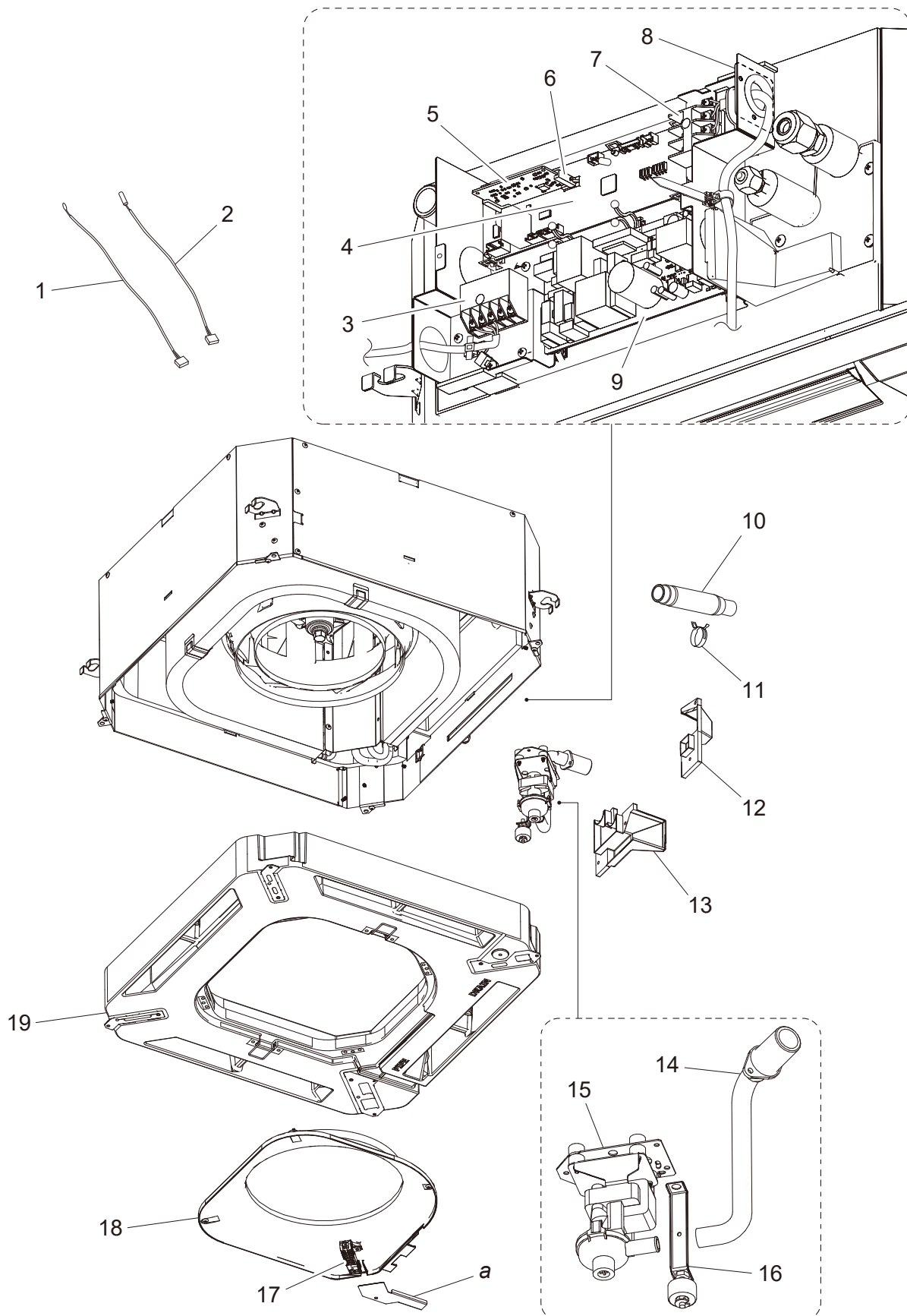


Item no.	Part no.	Part name	Service part
1	9377760043	Flap total assy	◆
2	9377759047	Flap assy B	◆
3	9375727048	Flap assy A	◆
4	9375746018	Motor holder assy B	◆
5	9900139087	Step motor (with Red connector)	◆
6	9375530013	Panel cover	◆
7	9711310002	Indicator PCB	◆
8	9383100024	Display panel assy	◆
9	9375549015	Connector cover	◆
10	9382862008	Intake grille assy	◆
11	9375546014	Hook bracket	◆
12	9375532031	Grille hook	◆
13	9382863005	Intake grille	◆
14	9375533014	Long-life filter	◆
15	9382821005	Decoration panel	◆
16	9375745011	Motor holder assy A	◆
17	9900139070	Step motor (with White connector)	◆
—	9711276001	Wire with connector	◆

Indoor unit parts list

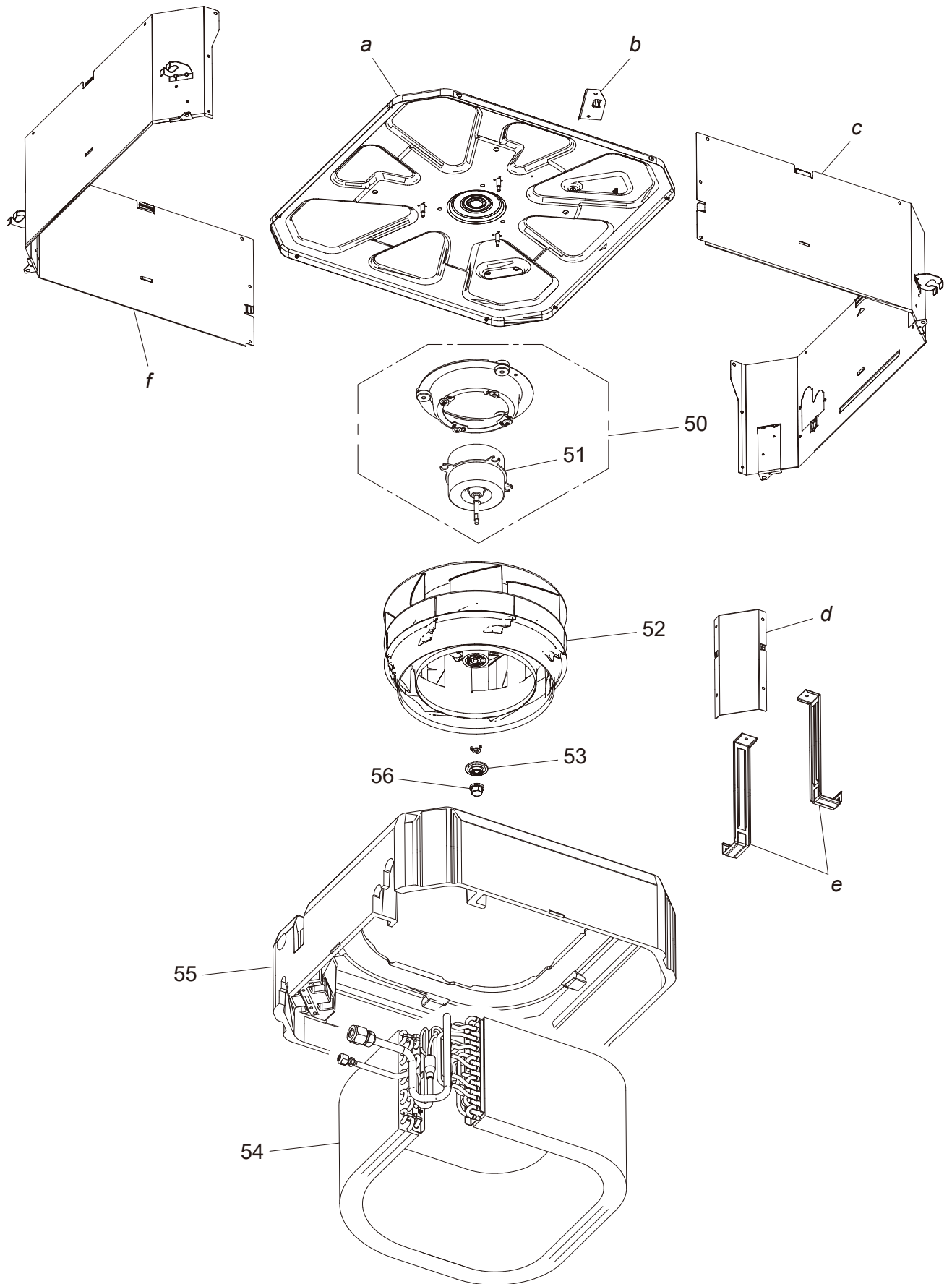
Models: ACUH07LUAS1, ACUH09LUAS1, ACUH12LUAS1, and ACUH18LUAS1

Chassis and PC boards



Item no.	Part no.	Part name	Service part
50	9379570015	Sirocco fan assy	◆
51	9379572019	Casing B	◆
52	9378593039	Float switch sub assy	◆
53	9379913003	Drain hose assy	◆
54	9378450141	Hose sub assy	◆
55	9379914062	Drain pump sub assy	◆
56	9711875099	Main PCB (07 model)	◆
	9711875068	Main PCB (09 model)	◆
	9711875075	Main PCB (12 model)	◆
57	9710019005	2-way remote PCB	◆
58	9900896027	Terminal 5P (Remote)	◆
59	9900568009	Terminal 3P	◆
60	9710661020	Power supply PCB	◆
61	9900653019	Thermistor (Room)	◆
62	9900349035	Thermistor (Pipe)	◆
63	9379908030	Top panel sub assy	◆
64	9379571012	Casing U	◆
65	9379644006	Vibration-proof rubber assy	◆
66	9604027000	Motor sub assy (For 07 model)	◆
	9603735005	Motor sub assy (For 09 and 12 models)	◆
—	9710177057	Wire with connector (CN46 on Main PCB—Terminal 5P [External input])	◆
—	9710171055	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)	◆
—	9710343094	Wire with connector (CN300 on Main PCB—Terminal 5P [Remote])	◆
—	9710703010	Wire with connector (CN205 on Power supply PCB—Terminal 3P)	◆

Fan and evaporator

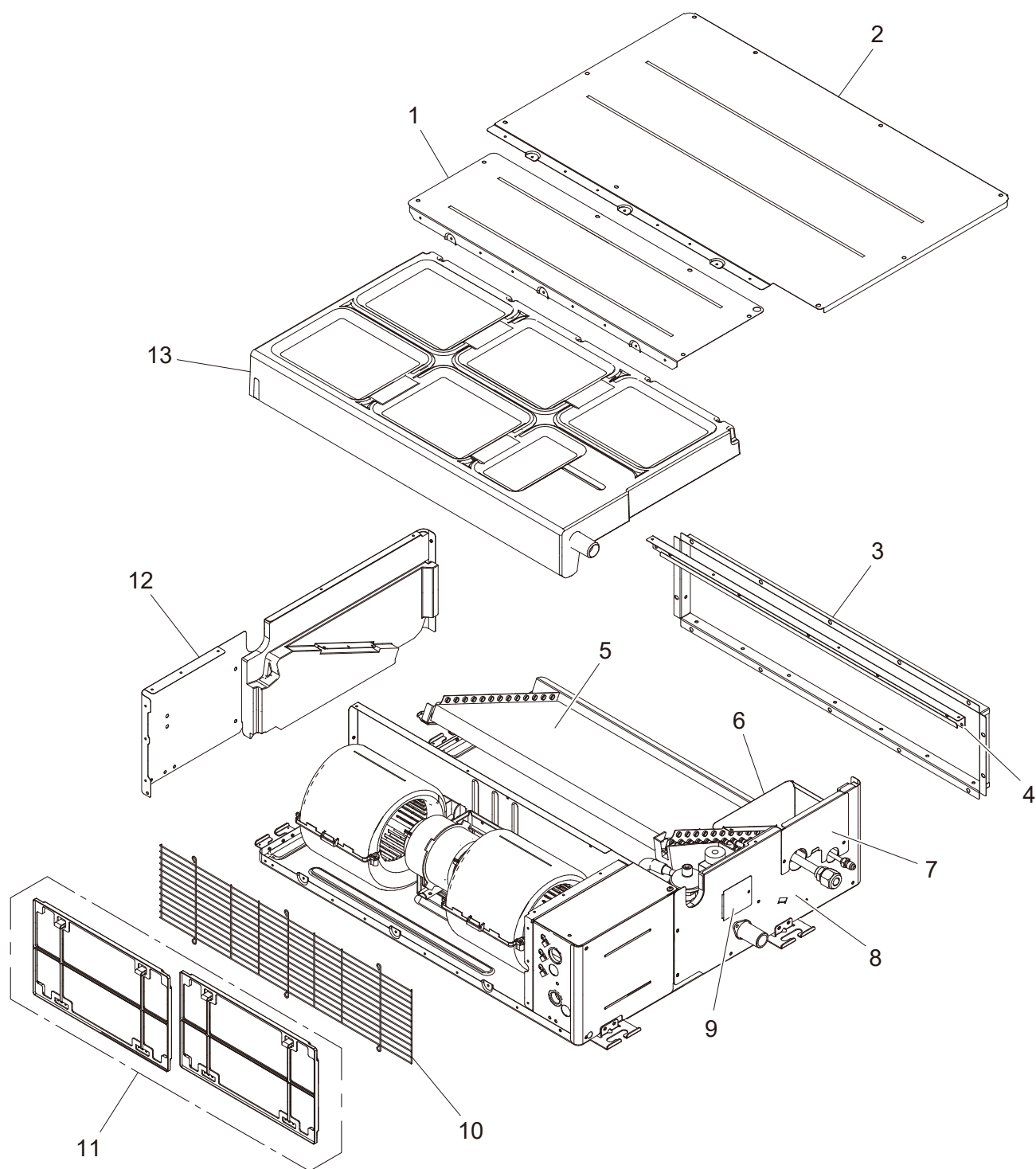


Item no.	Part no.	Part name	Service part
50	9375719029	Fan motor sub assy	◆
51	9602870004	DC fan motor	◆
52	9375480011	2-stage turbo fan assy	◆
53	9377811011	Washer cover	◆
54	9375720391	Evaporator sub assy (For 07 model)	◆
	9375720384	Evaporator sub assy (For 09 and 12 models)	◆
	9375720339	Evaporator sub assy (For 18 model)	◆
55	9377764065	Insulation box sub assy	◆
56	9377807014	Shaft cap	◆
<i>a</i>	—	Top plate assy	—
<i>b</i>	—	Motor wire holder	—
<i>c</i>	—	Cabinet A sub assy	—
<i>d</i>	—	Separate wall	—
<i>e</i>	—	Evaporator holder	—
<i>f</i>	—	Cabinet B sub assy	—

Indoor unit parts list (Slim duct type)

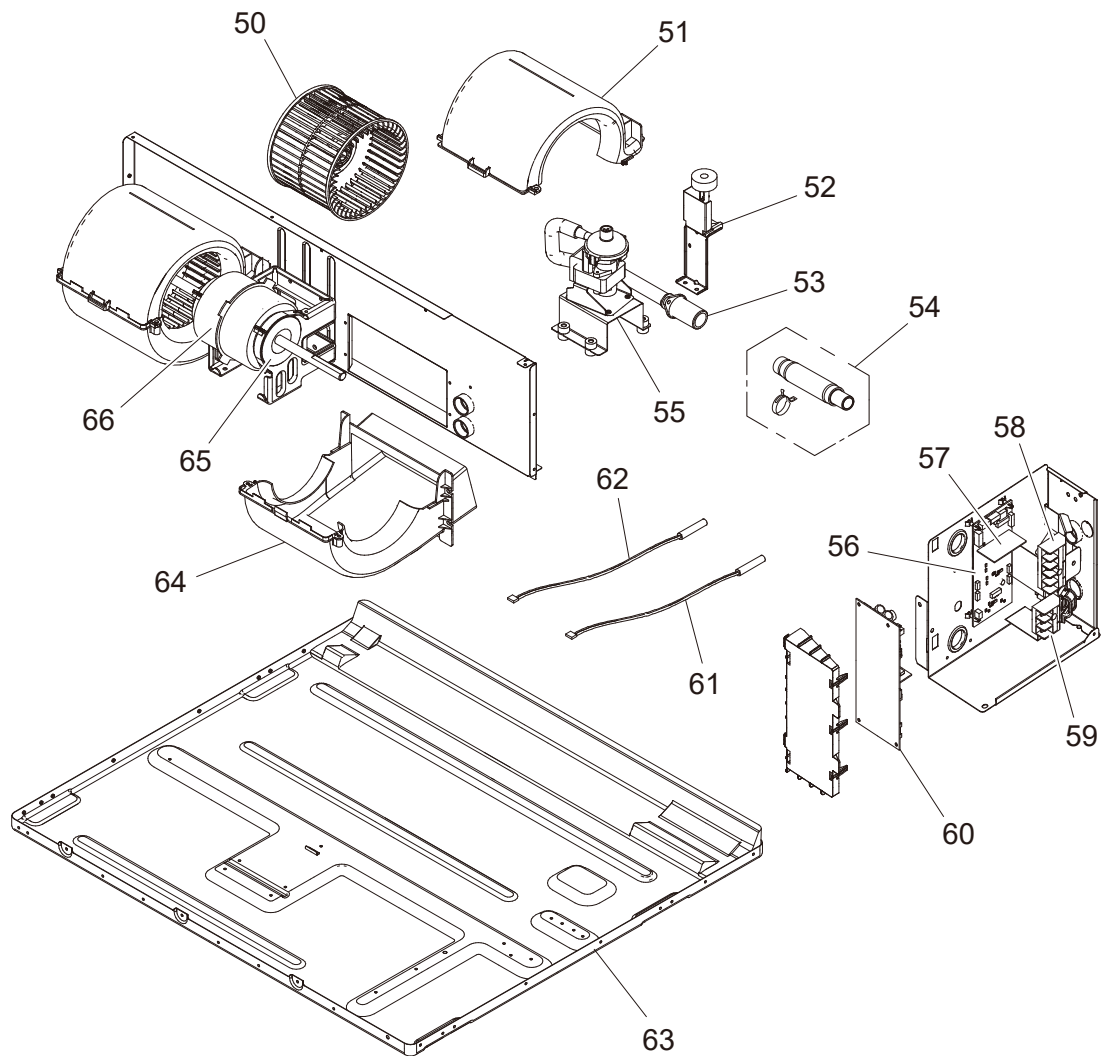
Models: ADUH07LUAS1, ADUH09LUAS1, and ADUH12LUAS1

Exterior parts and chassis



Item no.	Part no.	Part name	Service part
1	9380597001	Cabinet panel (2-fan)	◆
2	9380602019	Main panel (2-fan)	◆
3	9380042006	Outlet frame assy	◆
4	9380594000	Front panel (2-fan)	◆
5	9380682561	Evaporator total assy (For 07 model)	◆
	9380682585	Evaporator total assy (For 09 and 12 models)	◆
6	9379576017	Valve cover sub assy	◆
7	9379900003	Pipe panel sub assy	◆
8	9379907019	Side panel L sub assy	◆
9	9379915007	Window panel sub assy	◆
10	9380589006	Fan guard (2-fan)	◆
11	9379897006	Air filter sub assy	◆
12	9379906012	Side panel R sub assy	◆
13	9379901161	Drain pan sub assy	◆

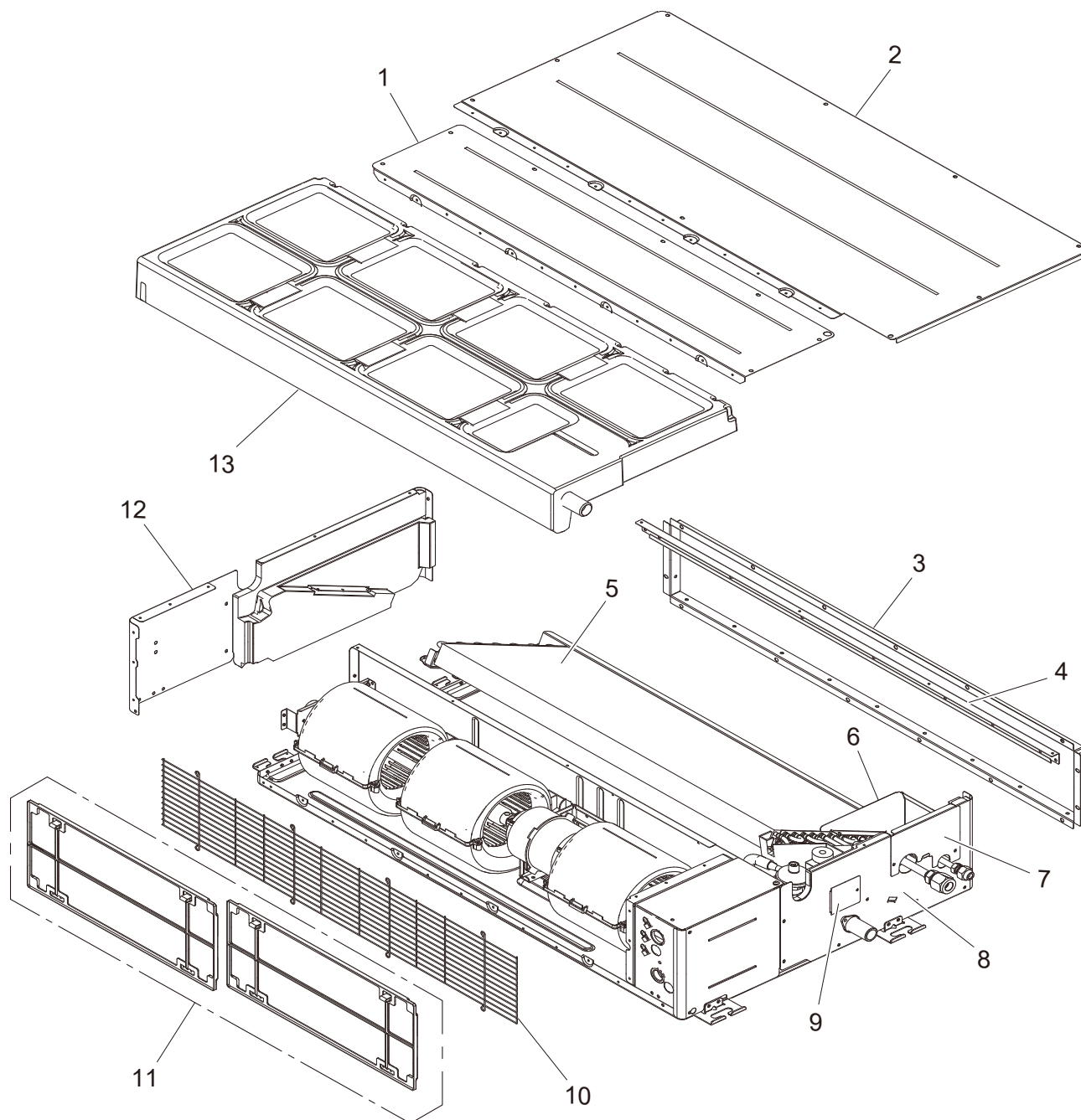
Fan and PC boards



Item no.	Part no.	Part name	Service part
50	9379570015	Sirocco fan assy	◆
51	9379572019	Casing B	◆
52	9378593039	Float switch sub assy	◆
53	9379913003	Drain hose assy	◆
54	9378450141	Hose sub assy	◆
55	9379914062	Drain pump sub assy	◆
56	9711875099	Main PCB (07 model)	◆
	9711875068	Main PCB (09 model)	◆
	9711875075	Main PCB (12 model)	◆
57	9710019005	2-way remote PCB	◆
58	9900896027	Terminal 5P (Remote)	◆
59	9900568009	Terminal 3P	◆
60	9710661020	Power supply PCB	◆
61	9900653019	Thermistor (Room)	◆
62	9900349035	Thermistor (Pipe)	◆
63	9379908030	Top panel sub assy	◆
64	9379571012	Casing U	◆
65	9379644006	Vibration-proof rubber assy	◆
66	9604027000	Motor sub assy (For 07 model)	◆
	9603735005	Motor sub assy (For 09 and 12 models)	◆
—	9710177057	Wire with connector (CN46 on Main PCB—Terminal 5P [External input])	◆
—	9710171055	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)	◆
—	9710343094	Wire with connector (CN300 on Main PCB—Terminal 5P [Remote])	◆
—	9710703010	Wire with connector (CN205 on Power supply PCB—Terminal 3P)	◆

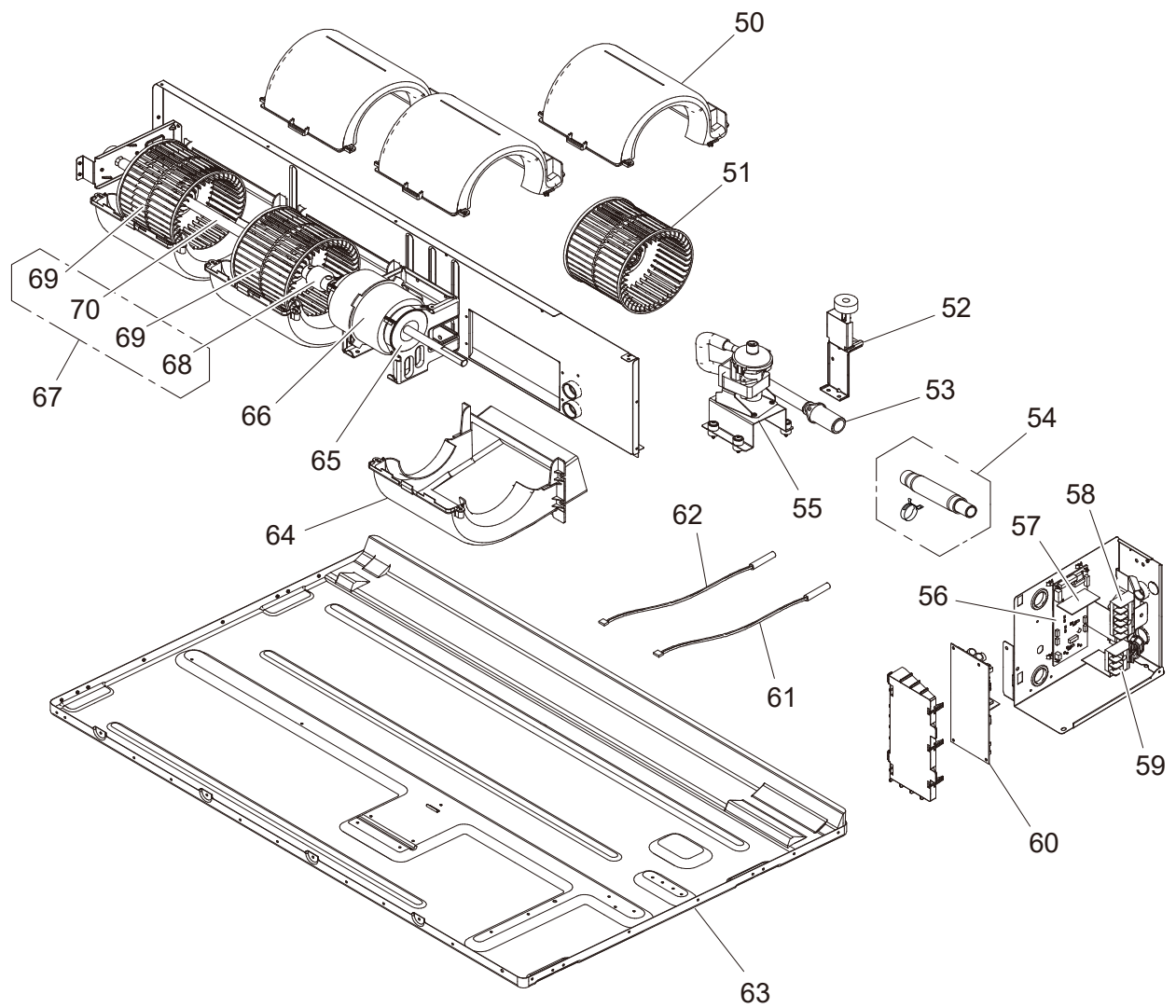
Model: ADUH18LUAS1

External parts and chassis

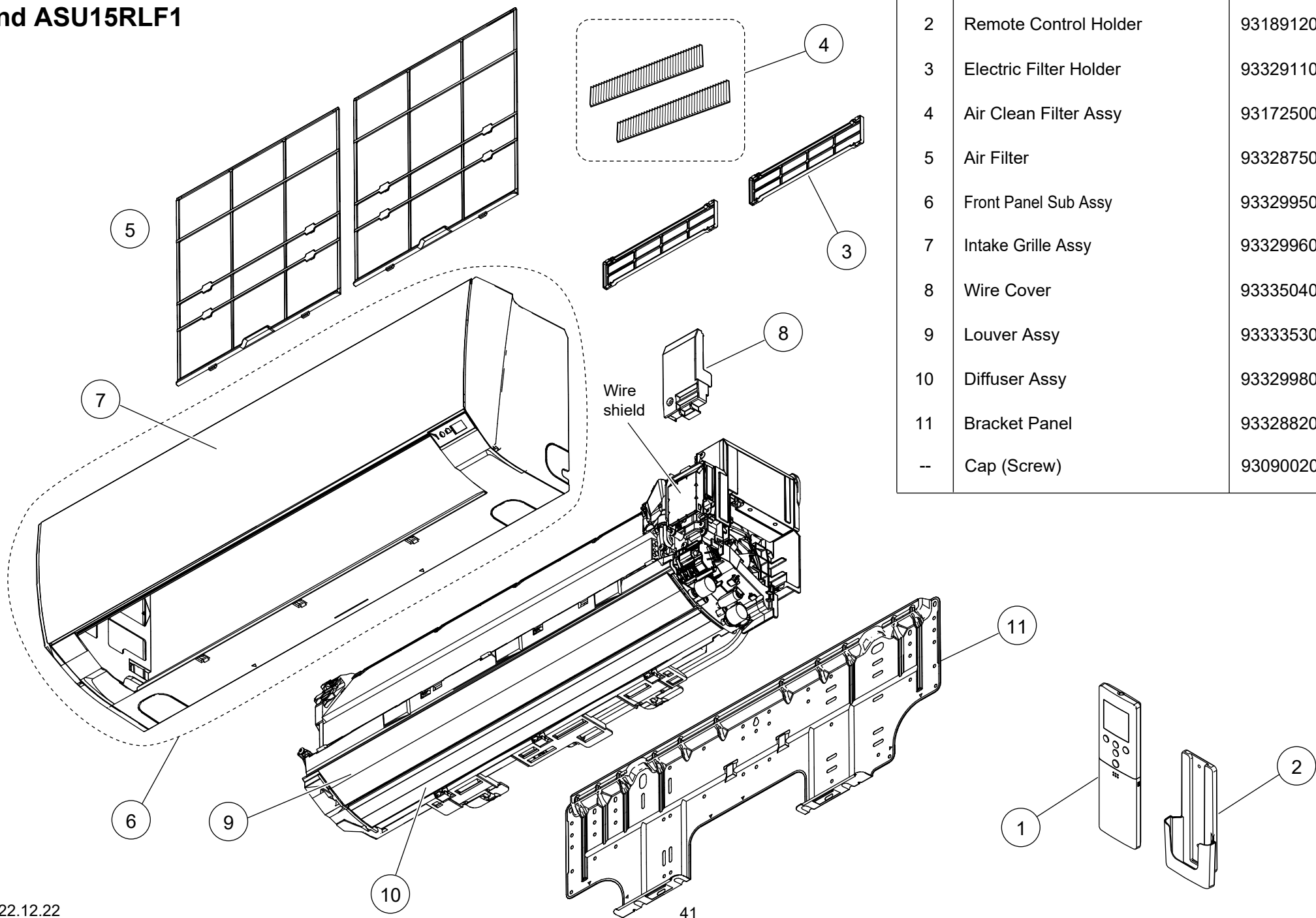


Item no.	Part no.	Part name	Service part
1	9380598008	Cabinet panel (3-fan)	◆
2	9380603016	Main panel (3-fan)	◆
3	9380042013	Outlet frame assy	◆
4	9380595007	Front panel (3-fan)	◆
5	9380682592	Evaporator total assy	◆
6	9379576017	Valve cover sub assy	◆
7	9379900003	Pipe panel sub assy	◆
8	9379907019	Side panel L sub assy	◆
9	9379915007	Window panel sub assy	◆
10	9380590002	Fan guard (3-fan)	◆
11	9379897013	Air filter sub assy	◆
12	9379906012	Side panel R sub assy	◆
13	9379901178	Drain pan sub assy	◆

Fan and PC boards

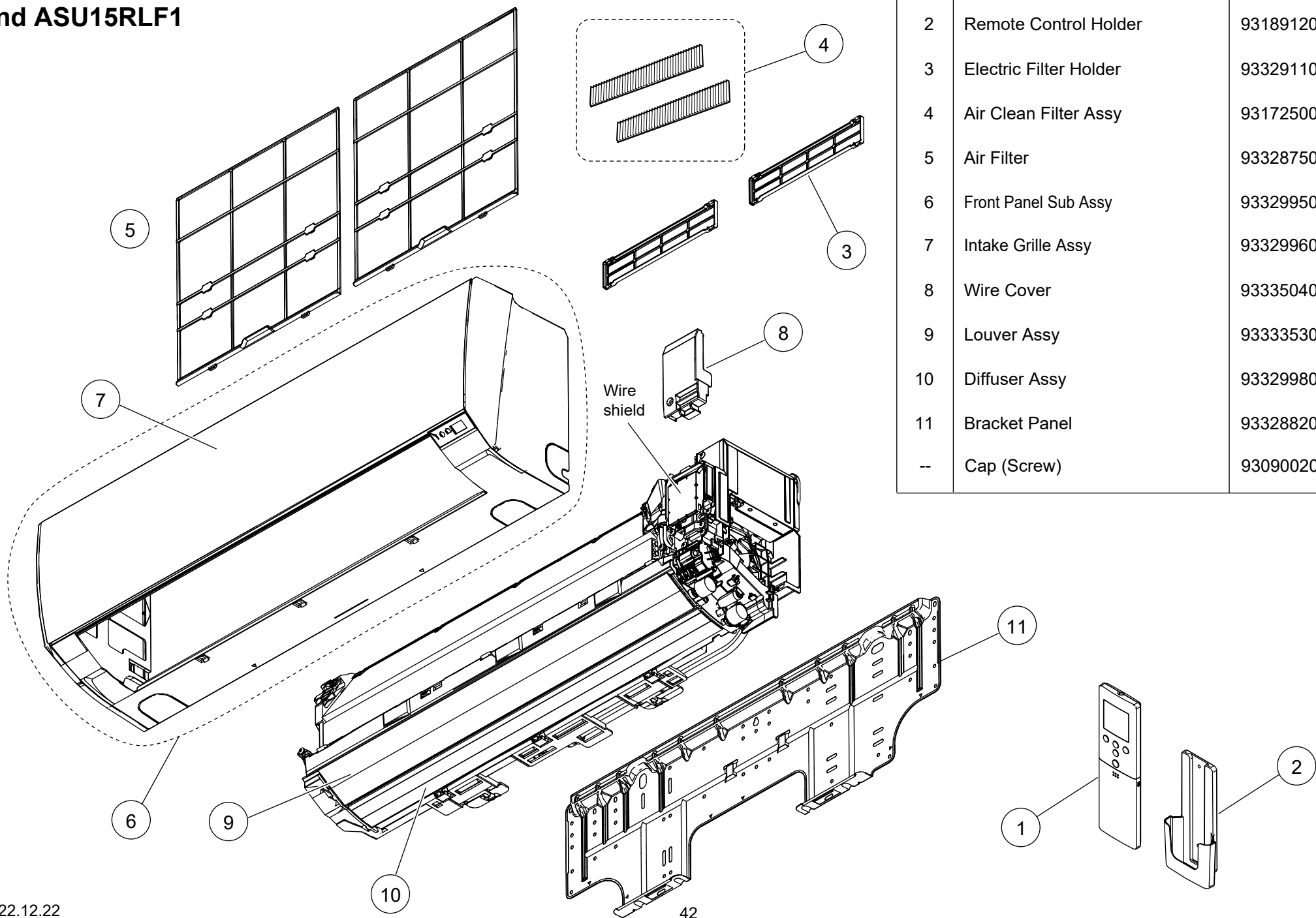


Indoor unit parts list
Compact wall mounted type
Models: ASU7RLF1, ASU9RLF1, ASU12RLF1
and ASU15RLF1



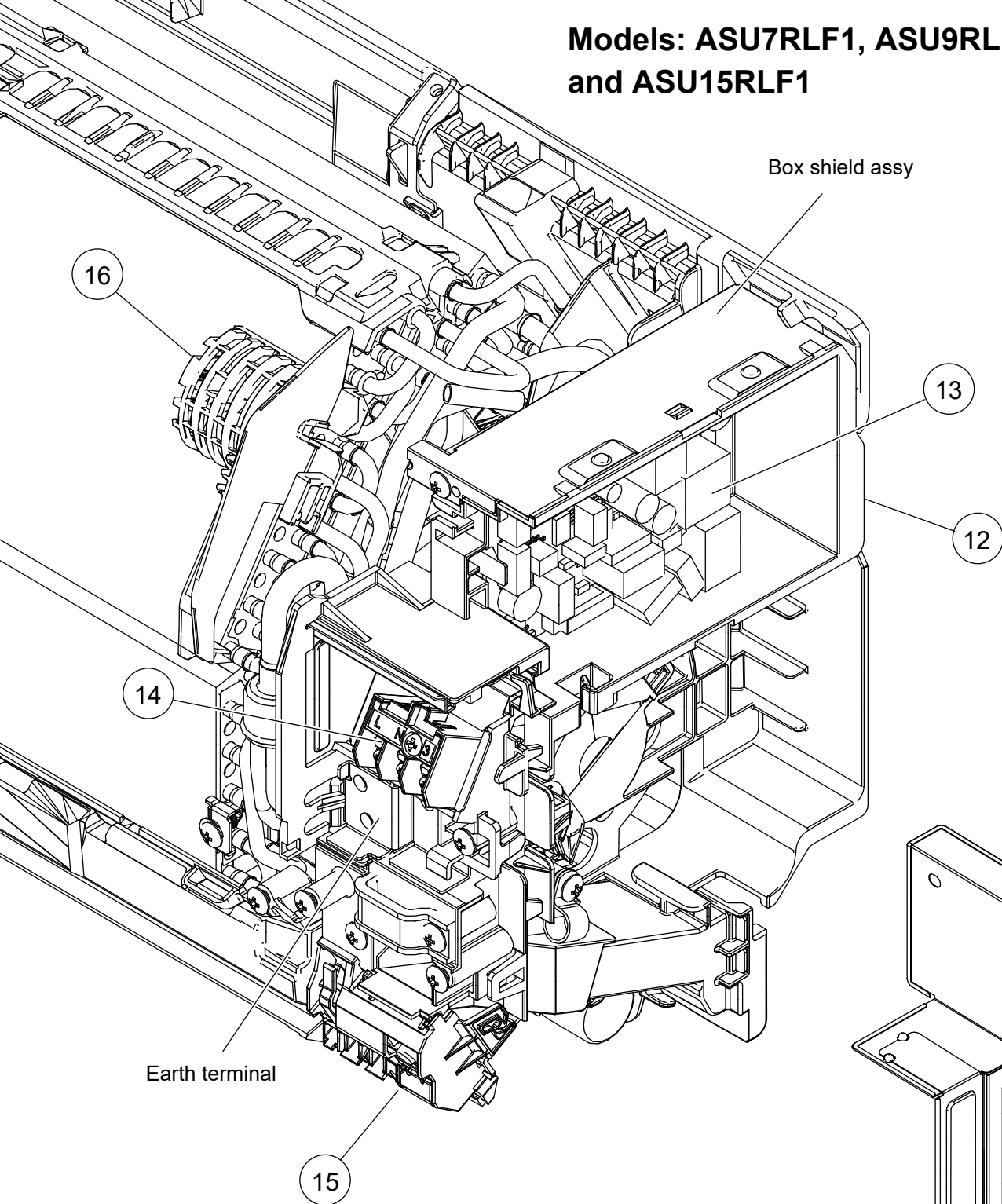
Ref.	Description	Part number	
1	Remote Controller Assy	9352446146	
2	Remote Control Holder	9318912005	
3	Electric Filter Holder	9332911008	
4	Air Clean Filter Assy	9317250009	
5	Air Filter	9332875010	
6	Front Panel Sub Assy	9332995008	
7	Intake Grille Assy	9332996005	
8	Wire Cover	9333504018	
9	Louver Assy	9333353043	
10	Diffuser Assy	9332998085	
11	Bracket Panel	9332882025	
--	Cap (Screw)	9309002074	

Indoor unit parts list
Compact wall mounted type
Models: ASU7RLF1, ASU9RLF1, ASU12RLF1,
and ASU15RLF1

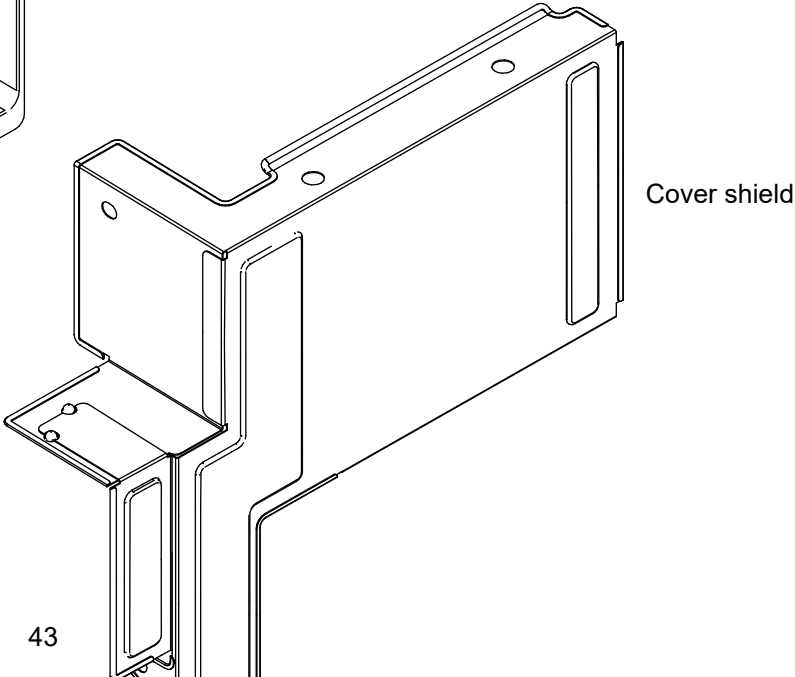


Ref.	Description	Part number
1	Remote Controller Assy	9352446146
2	Remote Control Holder	9318912005
3	Electric Filter Holder	9332911008
4	Air Clean Filter Assy	9317250009
5	Air Filter	9332875010
6	Front Panel Sub Assy	9332995008
7	Intake Grille Assy	9332996005
8	Wire Cover	9333504018
9	Louver Assy	9333353043
10	Diffuser Assy	9332998085
11	Bracket Panel	9332882025
--	Cap (Screw)	9309002074

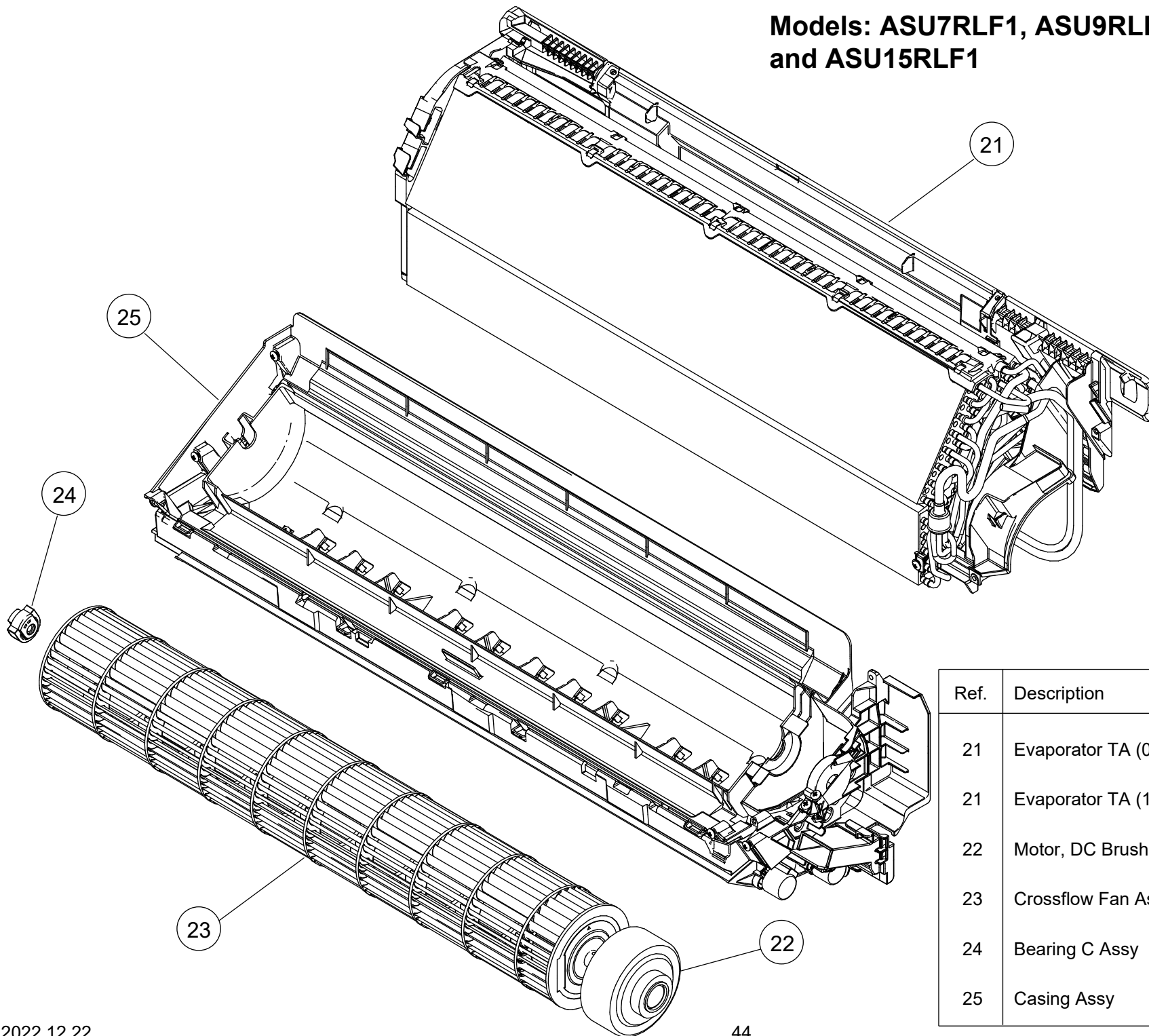
Models: ASU7RLF1, ASU9RLF1, ASU12RLF1,
and ASU15RLF1



Ref.	Description	Part number	
12	Control Box	9332892024	
13	Main PCB (07 model)	9709427354	
13	Main PCB (09 model)	9709427330	
13	Main PCB (12 model)	9709427347	
13	Main PCB (15 model)	9709427446	
14	Terminal	9900720001	
15	Display Assy	9709430019	
--	Indicator PCB	9709431016	
16	Room Thermistor Holder	9332868005	
--	Thermistor Assy	9900930011	

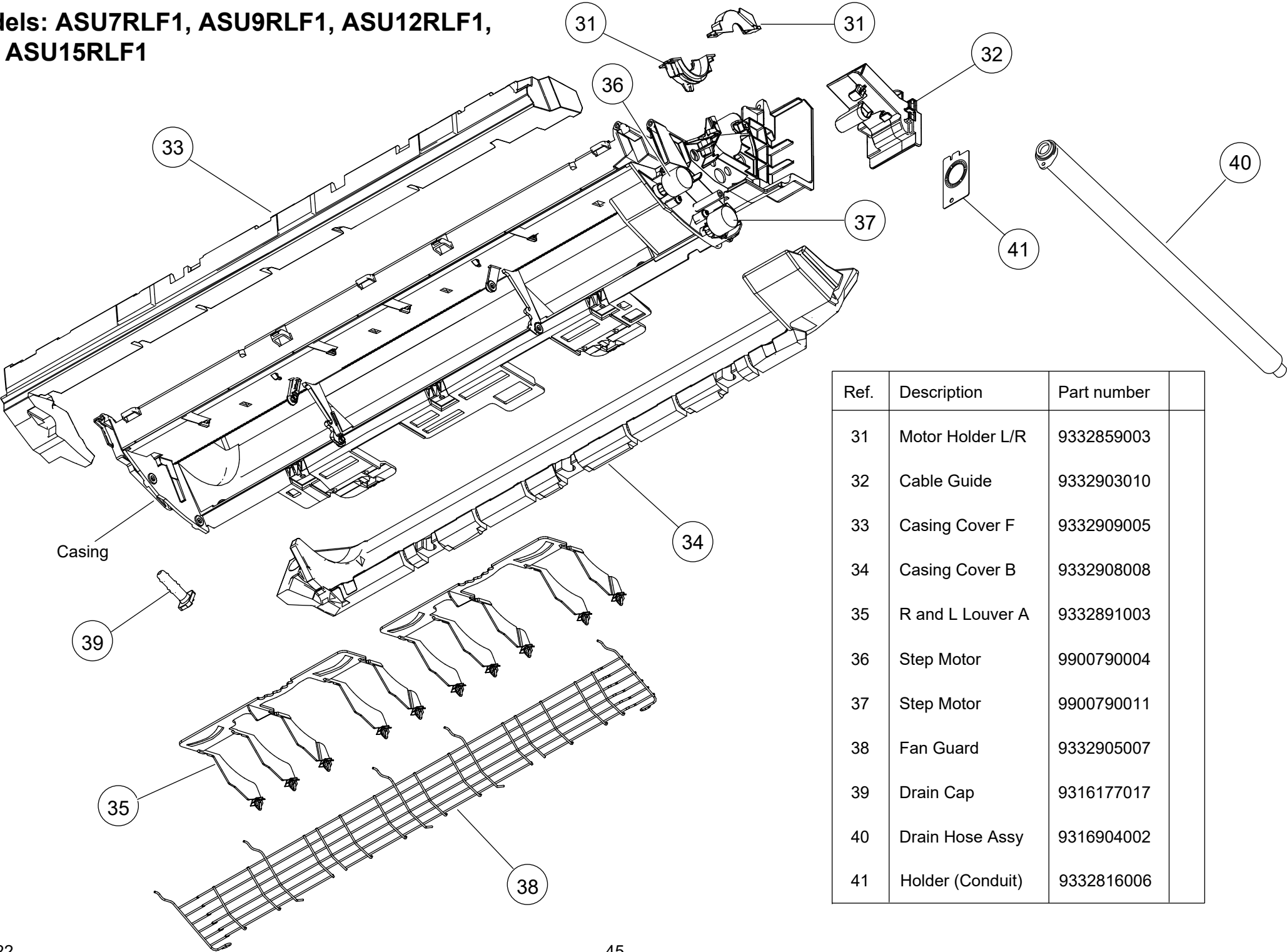


**Models: ASU7RLF1, ASU9RLF1, ASU12RLF1,
and ASU15RLF1**



Ref.	Description	Part number	
21	Evaporator TA (07, 09, and 12 models)	9332989403	
21	Evaporator TA (15 model)	9332989397	
22	Motor, DC Brushless	9603269012	
23	Crossflow Fan Assy	9316830004	
24	Bearing C Assy	9306628024	
25	Casing Assy	9333009056	

Models: ASU7RLF1, ASU9RLF1, ASU12RLF1,
and ASU15RLF1

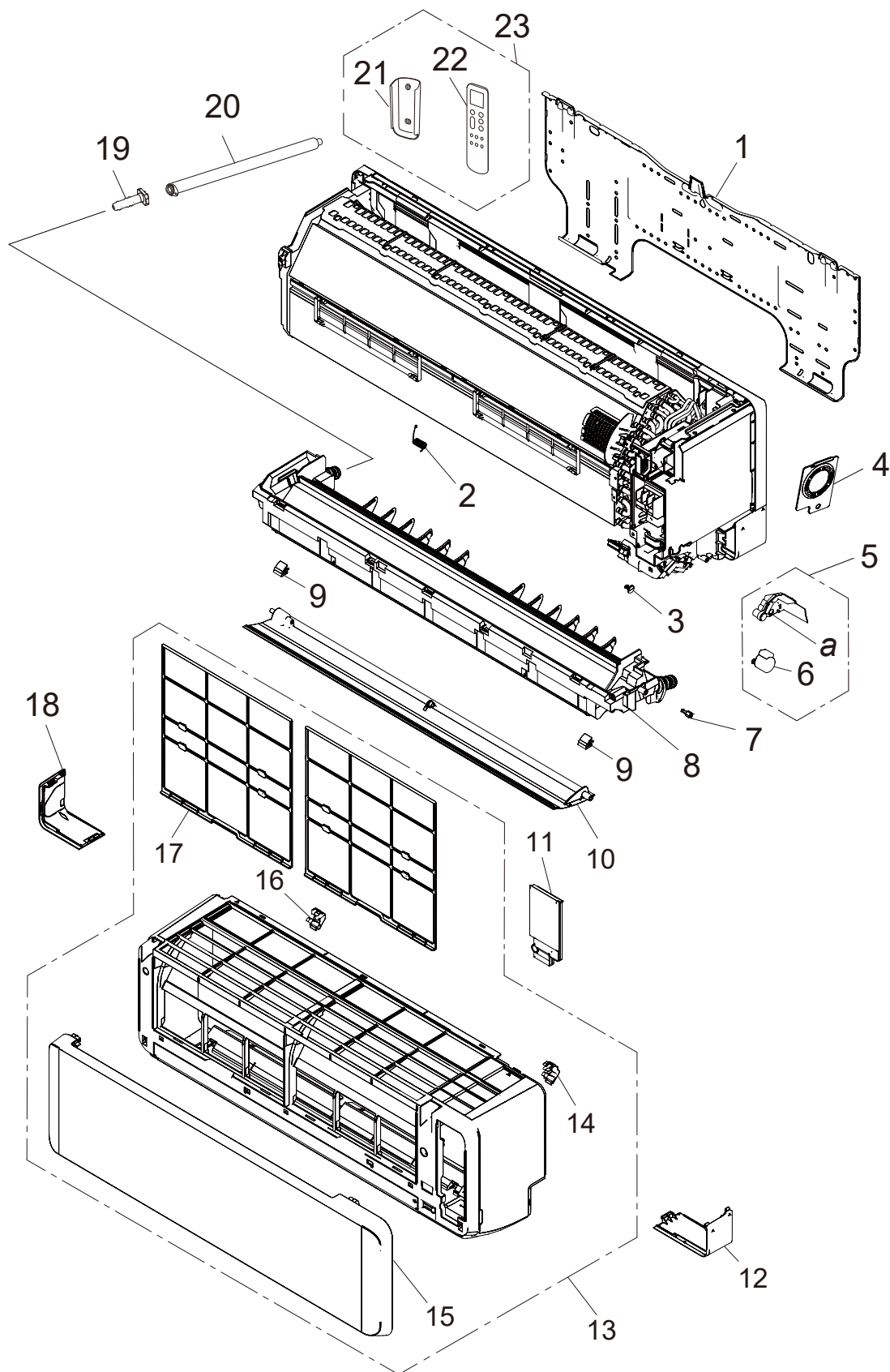


Ref.	Description	Part number	
31	Motor Holder L/R	9332859003	
32	Cable Guide	9332903010	
33	Casing Cover F	9332909005	
34	Casing Cover B	9332908008	
35	R and L Louver A	9332891003	
36	Step Motor	9900790004	
37	Step Motor	9900790011	
38	Fan Guard	9332905007	
39	Drain Cap	9316177017	
40	Drain Hose Assy	9316904002	
41	Holder (Conduit)	9332816006	

Indoor unit parts list

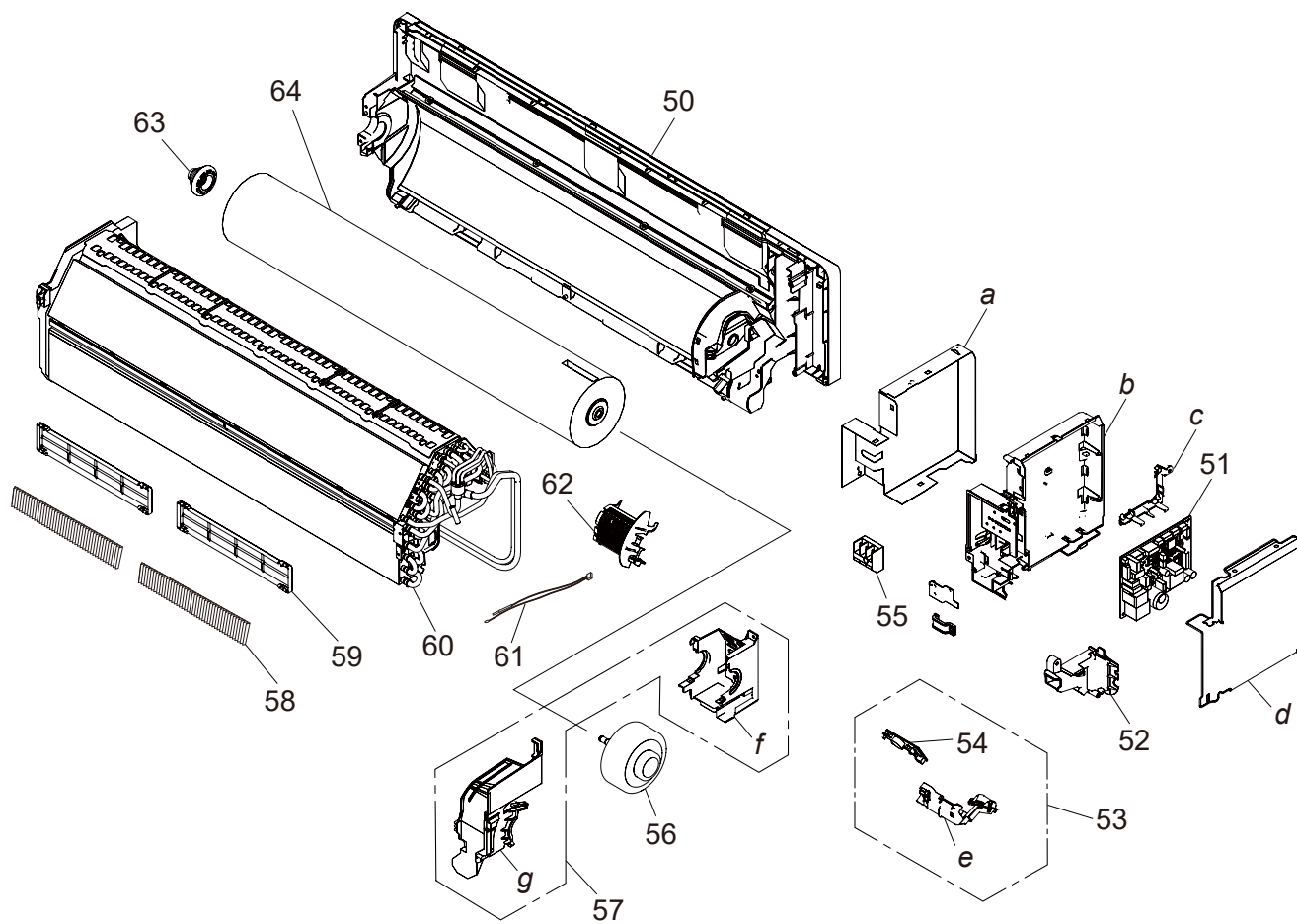
**Models: ASUH07LPAS, ASUH09LPAS, ASUH12LPAS,
and ASUH15LPAS**

Exterior parts



Item no.	Part no.	Part name	Service part
1	9388142005	Bracket panel	◆
2	9387471007	Louver spring	◆
3	9333608006	Bush	◆
4	9313951047	Conduit holder	◆
5	9387714036	Step motor holder assy	◆
6	9901011047	Step motor	◆
7	9332861006	Shaft cover	◆
8	9387590166	Drain pan total assy	◆
9	9387476002	Screw cover	◆
10	9387479003	U/D louver assy	◆
11	9387597004	Wire cover assy	◆
12	9387478044	Under cover R	◆
13	9387596984	Front panel total assy	◆
14	9333704005	Grille clamper R	◆
15	9387756357	Intake grill assy	◆
16	9333719009	Grille clamper L	◆
17	9387473001	Air filter	◆
18	9387477047	Under cover L	◆
19	9316177017	Drain cap	◆
20	9316904002	Drain hose assy	◆
21	9334098004	Remote controller holder	◆
22	9334139004	Remote controller	◆
23	9334141007	Remote controller total assy	◆
<i>a</i>	—	Step motor holder	—
<i>b</i>	—	Front panel	—

Base, evaporator, and control

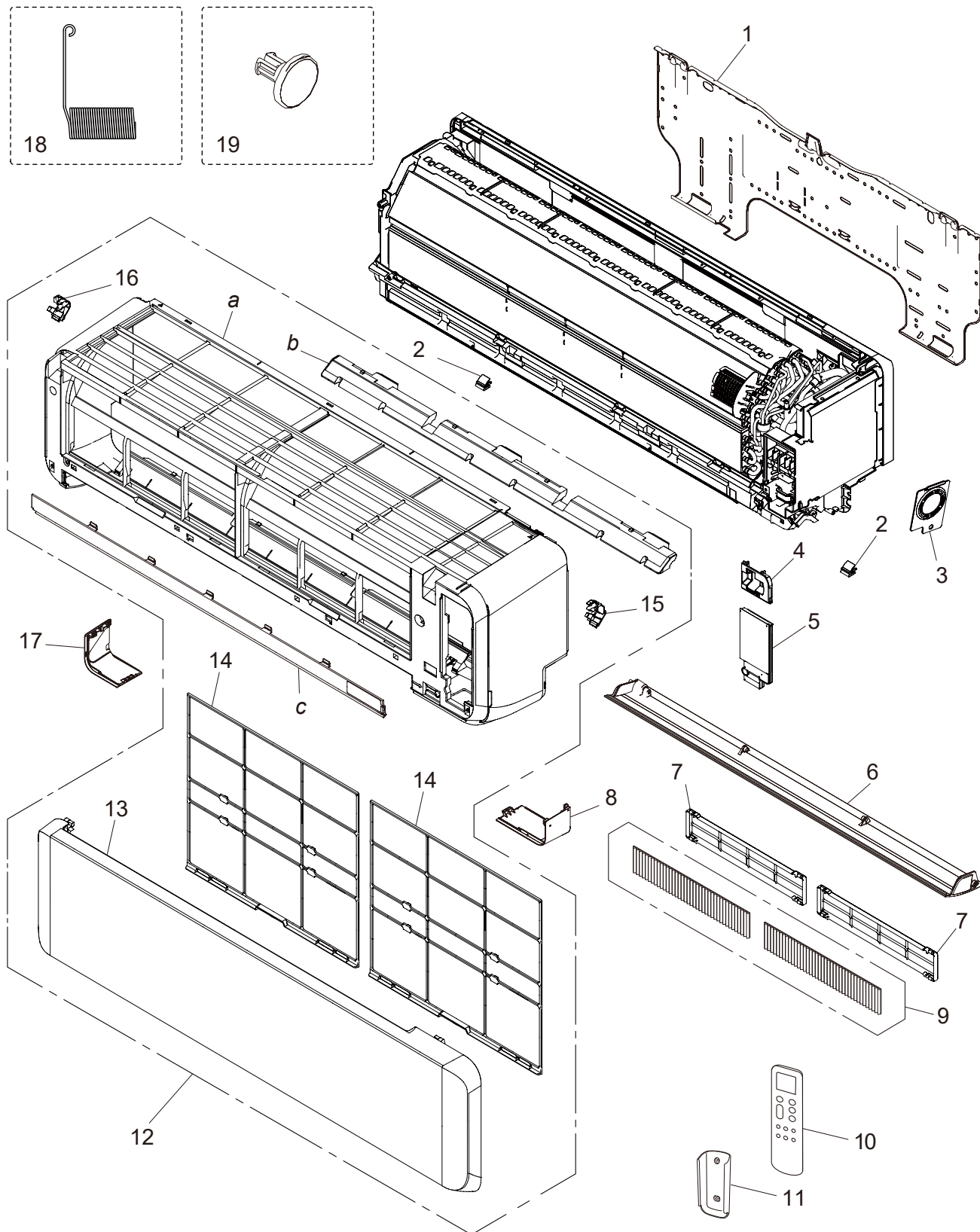


Item no.	Part no.	Part name	Service part
50	9387587128	Base assy	◆
51	9711732699	Main PCB (For 07 model)	◆
	9711732552	Main PCB (For 09 model)	◆
	9711732569	Main PCB (For 12 model)	◆
	9711732705	Main PCB (For 15 model)	◆
52	9387488043	Cable guide	◆
53	9711146076	Display assy	◆
54	9711147011	Indicator PCB	◆
55	9901013010	Terminal	◆
56	9603631017	Brushless motor	◆
57	9387589061	Motor case assy	◆
58	9317250009	Air clean filter assy	◆
59	9332911008	Electric filter holder	◆
60	9387593389	Evaporator total assy (For 07 and 09 models)	◆
	9387593396	Evaporator total assy (For 12 model)	◆
	9387593402	Evaporator total assy (For 15 model)	◆
61	9900627041	Thermistor assy	◆
62	9387467000	Room thermistor holder	◆
63	9333628004	Bearing D assy	◆
64	9387055047	Crossflow fan assy	◆
<i>a</i>	—	Box shield	—
<i>b</i>	—	Control box	—
<i>c</i>	—	PCB holder A	—
<i>d</i>	—	Control cover	—
<i>e</i>	—	Display case assy	—
<i>f</i>	—	Motor case	—
<i>g</i>	—	Motor cover	—

Indoor unit parts list (Wall mounted type)

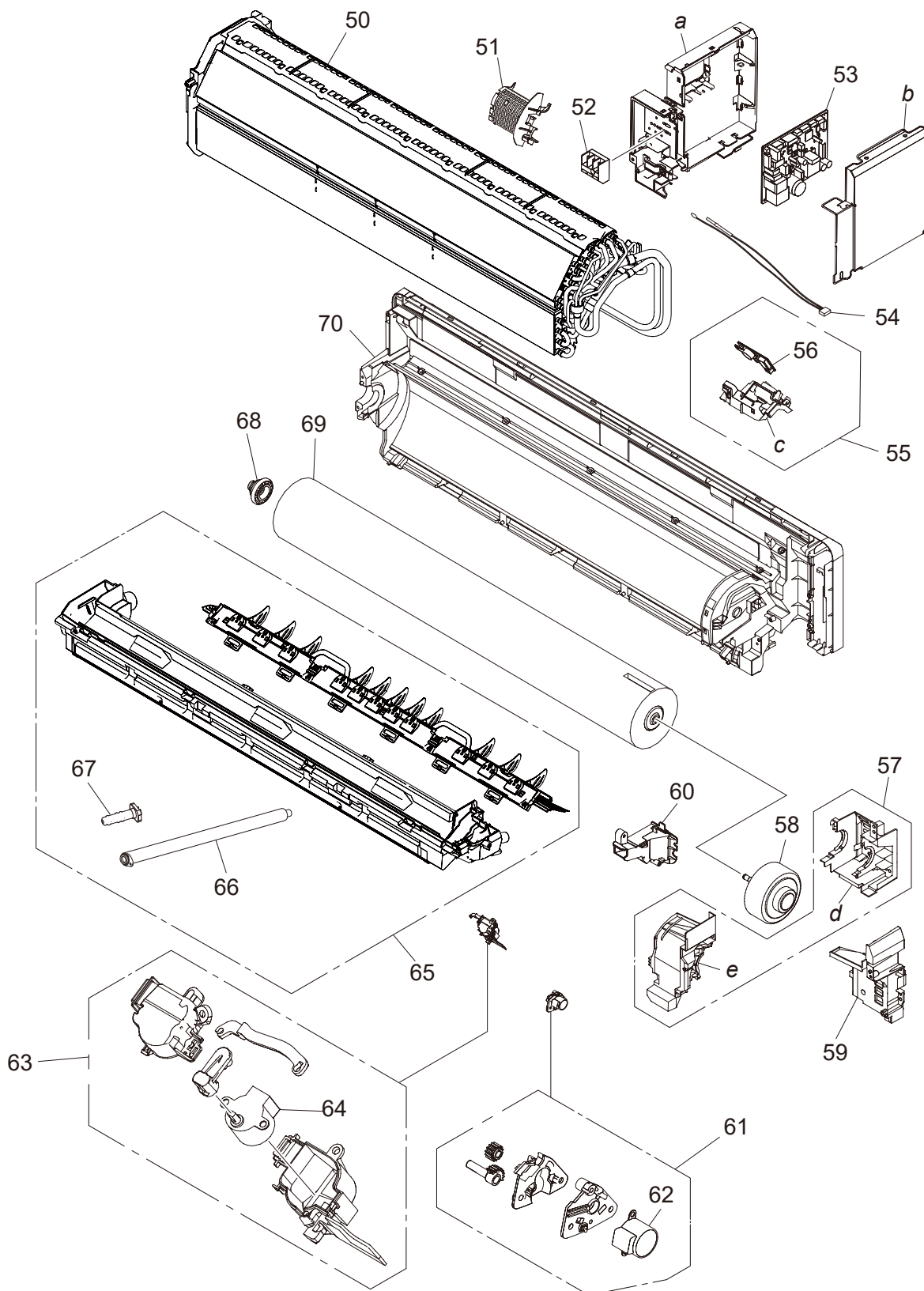
Model: ASUH18LPAS

Exterior parts and Accessories



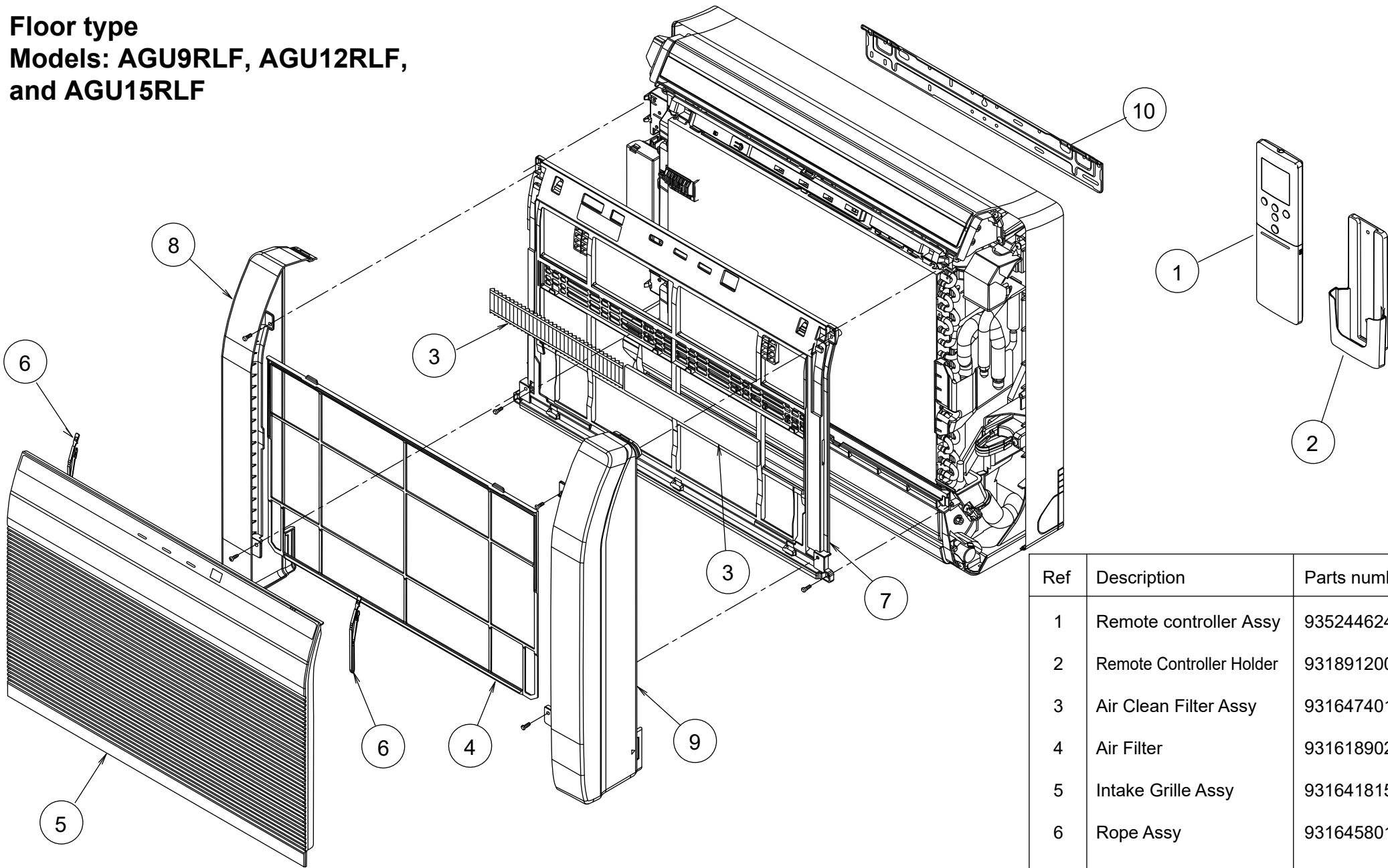
Item no.	Part no.	Part name	Service part
1	9388158013	Bracket panel	◆
2	9387476002	Screw cap	◆
3	9313951047	Conduit holder	◆
4	9387483000	Wire cover B	◆
5	9387597004	Wire cover assy	◆
6	9387479010	U/D louver assy	◆
7	9332911008	Electric filter holder	◆
8	9323341036	Under cover L	◆
9	9317250009	Air clean filter assy	◆
10	9334139011	Remote controller	◆
11	9334098004	Remote controller holder	◆
12	9384977038	Front panel total assy	◆
13	9387756388	Intake grille assy	◆
14	9323340008	Air filter	◆
15	9333719009	Grille clamper L	◆
16	9333704005	Grille clamper R	◆
17	9323342033	Under cover R	◆
18	9383730030	Louver spring	◆
19	9333608006	Bush	◆
<i>a</i>	—	Front panel	—
<i>b</i>	—	Panel cover	—
<i>c</i>	—	Front panel B	—

Chassis



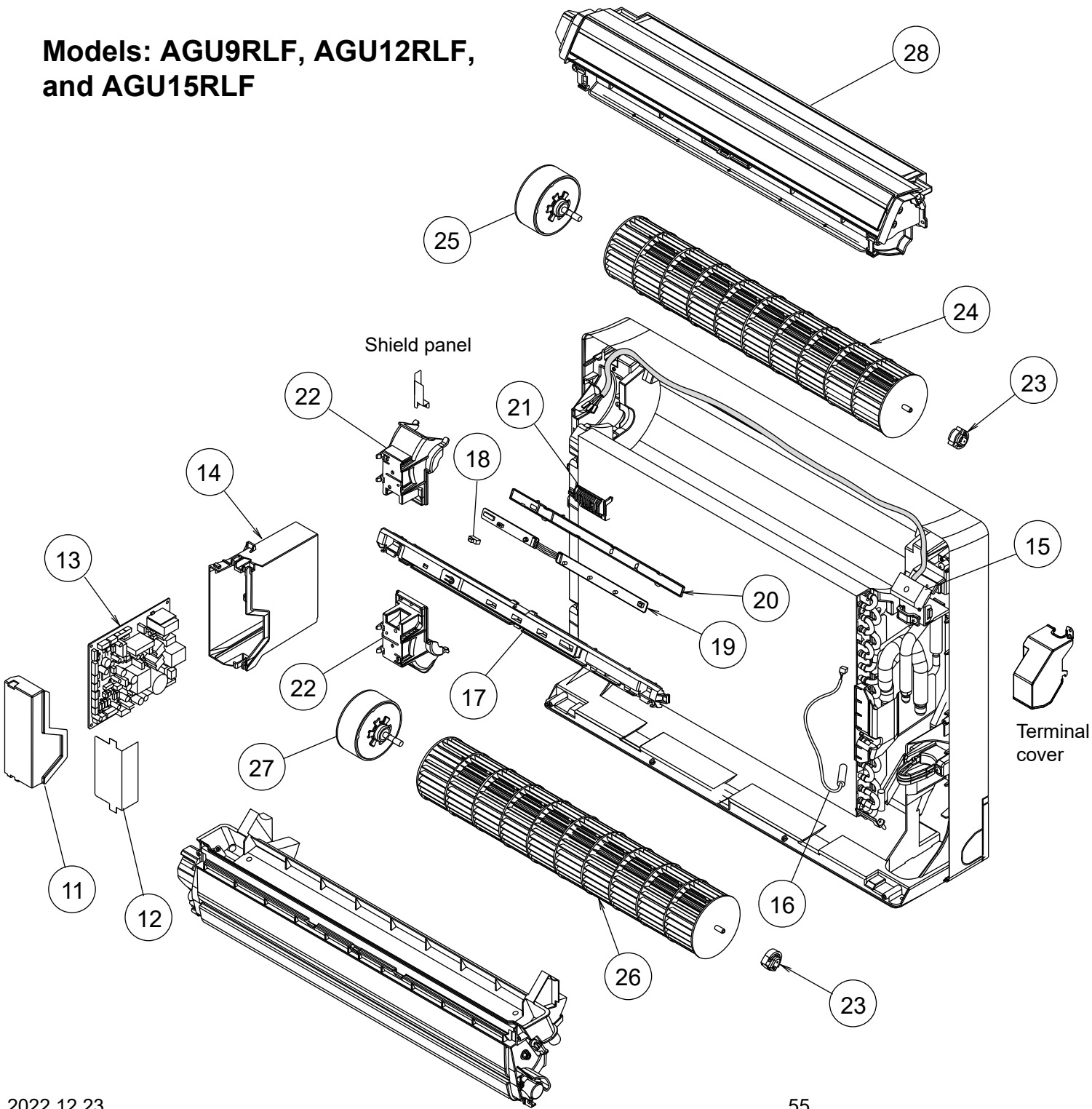
Item no.	Part no.	Part name	Service part
50	9383735165	Evaporator total assy	◆
51	9387467000	Room thermistor holder	◆
52	9901013010	Terminal	◆
53	9711732576	Main PCB	◆
54	9900627041	Thermistor assy	◆
55	9711146052	Display assy	◆
56	9711147011	Indicator PCB	◆
57	9387589054	Motor case assy	◆
58	9603631000	Brushless motor	◆
59	9383565007	Pipe bracket	◆
60	9387488043	Cable guide	◆
61	9387714012	Gear case assy	◆
62	9901011016	Stepping motor	◆
63	9383728006	R and L louver SPM assy	◆
64	9901011023	Stepping motor	◆
65	9387590142	Drain pan total assy	◆
66	9316904002	Drain hose assy	◆
67	9316177017	Drain cap	◆
68	9333628004	Bearing D assy	◆
69	9387055054	Crossflow fan assy	◆
70	9387587173	Base assy	◆
<i>a</i>	—	Control box	—
<i>b</i>	—	Control cover	—
<i>c</i>	—	Display case	—
<i>d</i>	—	Motor case	—
<i>e</i>	—	Motor cover assy	—

Floor type
Models: AGU9RLF, AGU12RLF,
and AGU15RLF



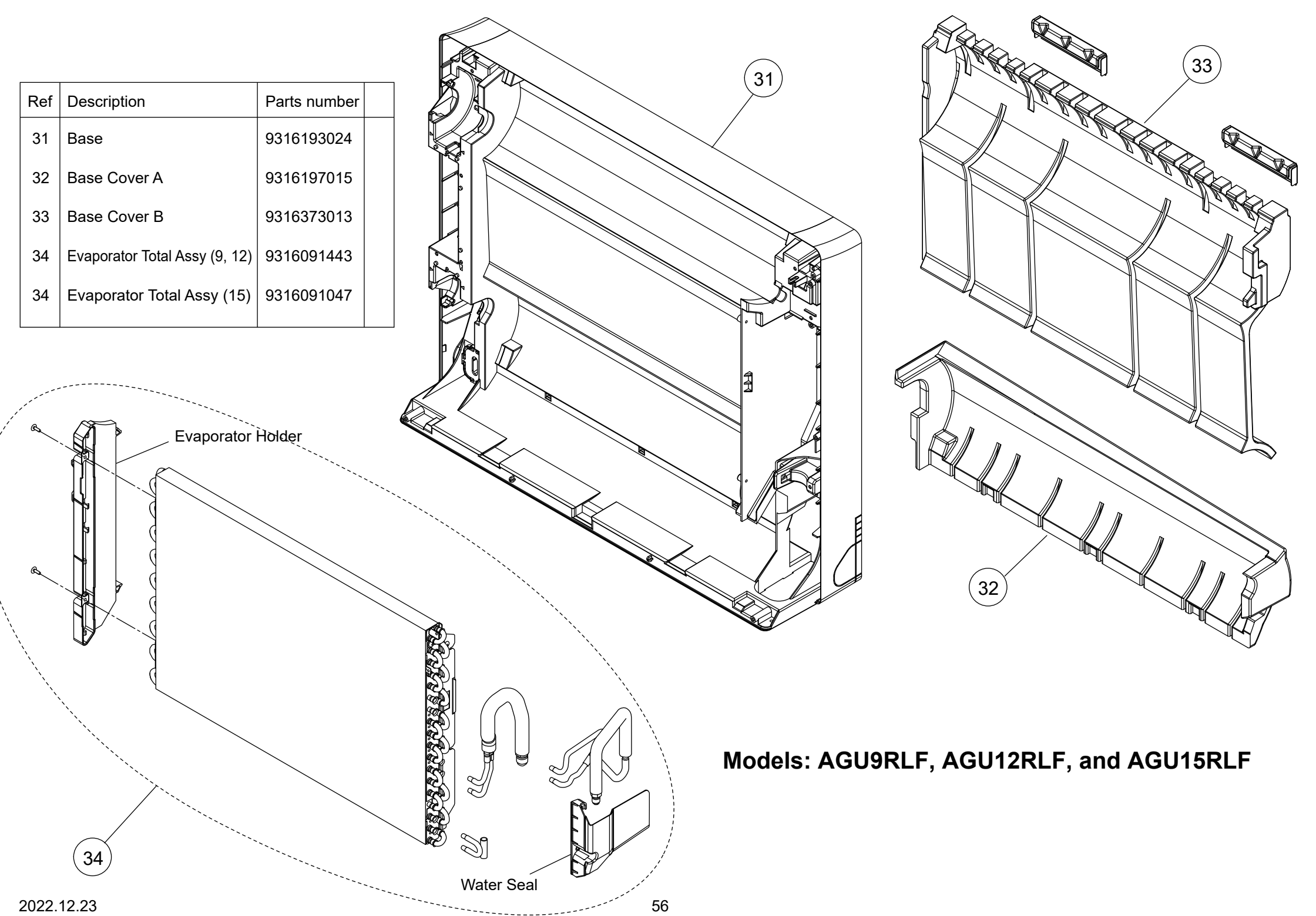
Ref	Description	Parts number	
1	Remote controller Assy	9352446245	
2	Remote Controller Holder	9318912005	
3	Air Clean Filter Assy	9316474017	
4	Air Filter	9316189027	
5	Intake Grille Assy	9316418158	
6	Rope Assy	9316458017	
7	Front Panel Total Assy	9316415126	
8	Front Panel L	9316187016	
9	Front Panel R	9316186019	
10	Bracket Panel	9316272019	

Models: AGU9RLF, AGU12RLF, and AGU15RLF



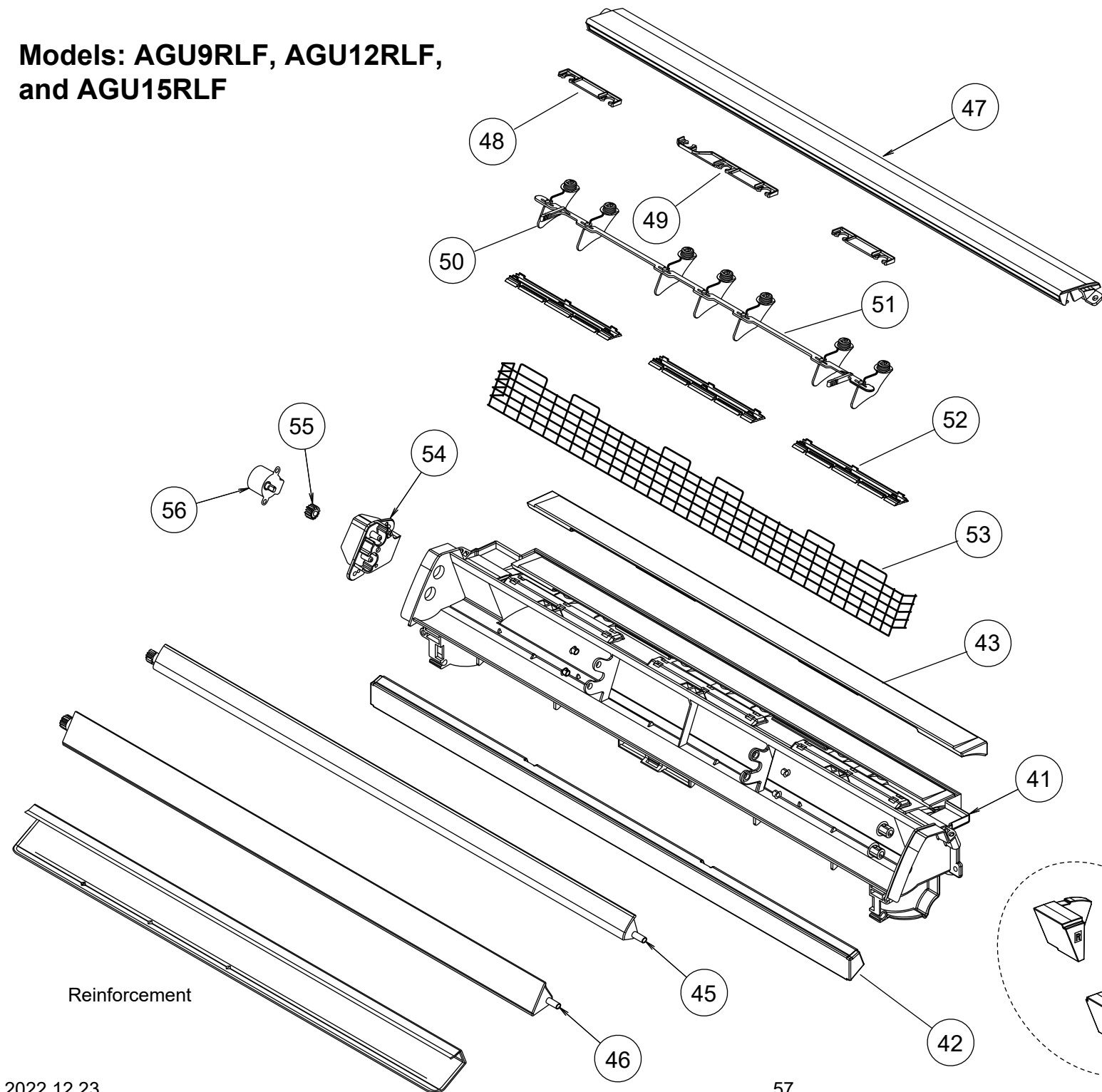
Ref	Description	Parts number	
11	Control Cover	9316201033	
12	Control Inner Cover	9316487017	
13	Main PCB (09 model)	9708532165	
13	Main PCB (12 model)	9708532172	
13	Main PCB (15 model)	9708532189	
14	Control Box	9316200036	
15	Terminal	9900385026	
16	Pipe Thermistor	9900991005	
17	Display Case	9316194014	
18	Slide Switch Cover	9316267015	
--	Display Assy	9707570021	
19	Indicator PCB	9707571042	
20	Display Cover	9316191013	
21	Thermistor Holder	9316192027	
22	Motor Holder	9316195011	
23	Bearing C Assy	9306628024	
24	Crossflow Fan Assy	9312004034	
25	Fan Motor, MFD-14TXAN	9602850013	
26	Crossflow Fan B Assy	9316309012	
27	Fan Motor, MFD-14SXAN	9602851010	
28	Casing Assy	9316411012	
--	Holder (Conduit)	9320432003	

Ref	Description	Parts number	
31	Base	9316193024	
32	Base Cover A	9316197015	
33	Base Cover B	9316373013	
34	Evaporator Total Assy (9, 12)	9316091443	
34	Evaporator Total Assy (15)	9316091047	

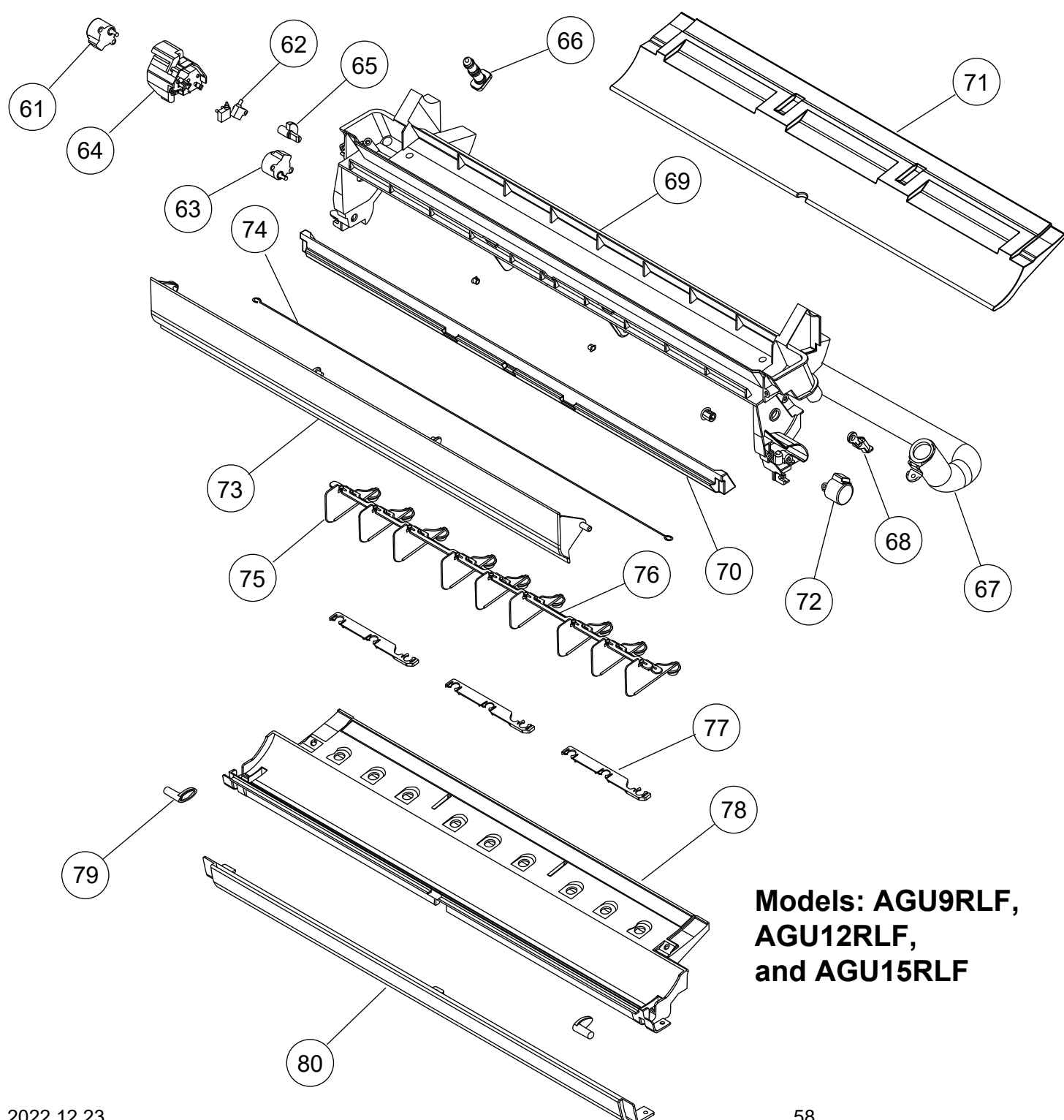


Models: AGU9RLF, AGU12RLF, and AGU15RLF

Models: AGU9RLF, AGU12RLF,
and AGU15RLF

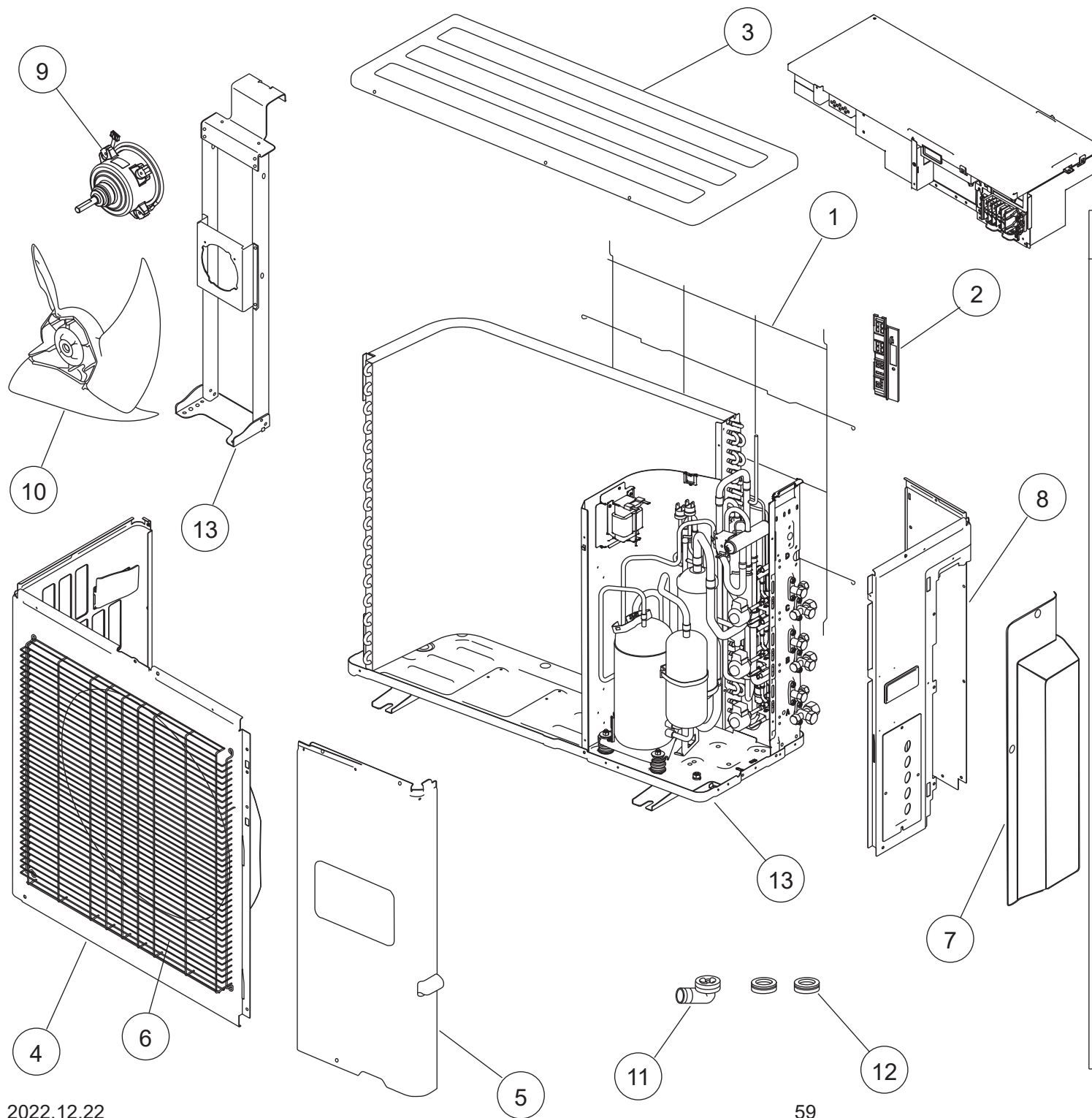


Ref	Description	Parts number	
41	Casing Assy (Includes 42-55)	9316411012	
42	Casing Cover F	9316308015	
43	Casing Cover B	9316273016	
44	Casing Cover LR	9316310018	
45	Louver U (upper)	9316205017	
46	Louver Z (lower)	9316206014	
47	Top Cover	9316207011	
48	Spacer C	9315281012	
49	Spacer D	9315282019	
50	R and L Louver U	9316208018	
51	Joint U	9316209015	
52	Guard Holder	9316210011	
53	Fan Guard	9316211018	
54	Gear Case	9316213012	
55	Gear A	9309994003	
56	Step Motor (up / down)	9900384043	



**Models: AGU9RLF,
AGU12RLF,
and AGU15RLF**

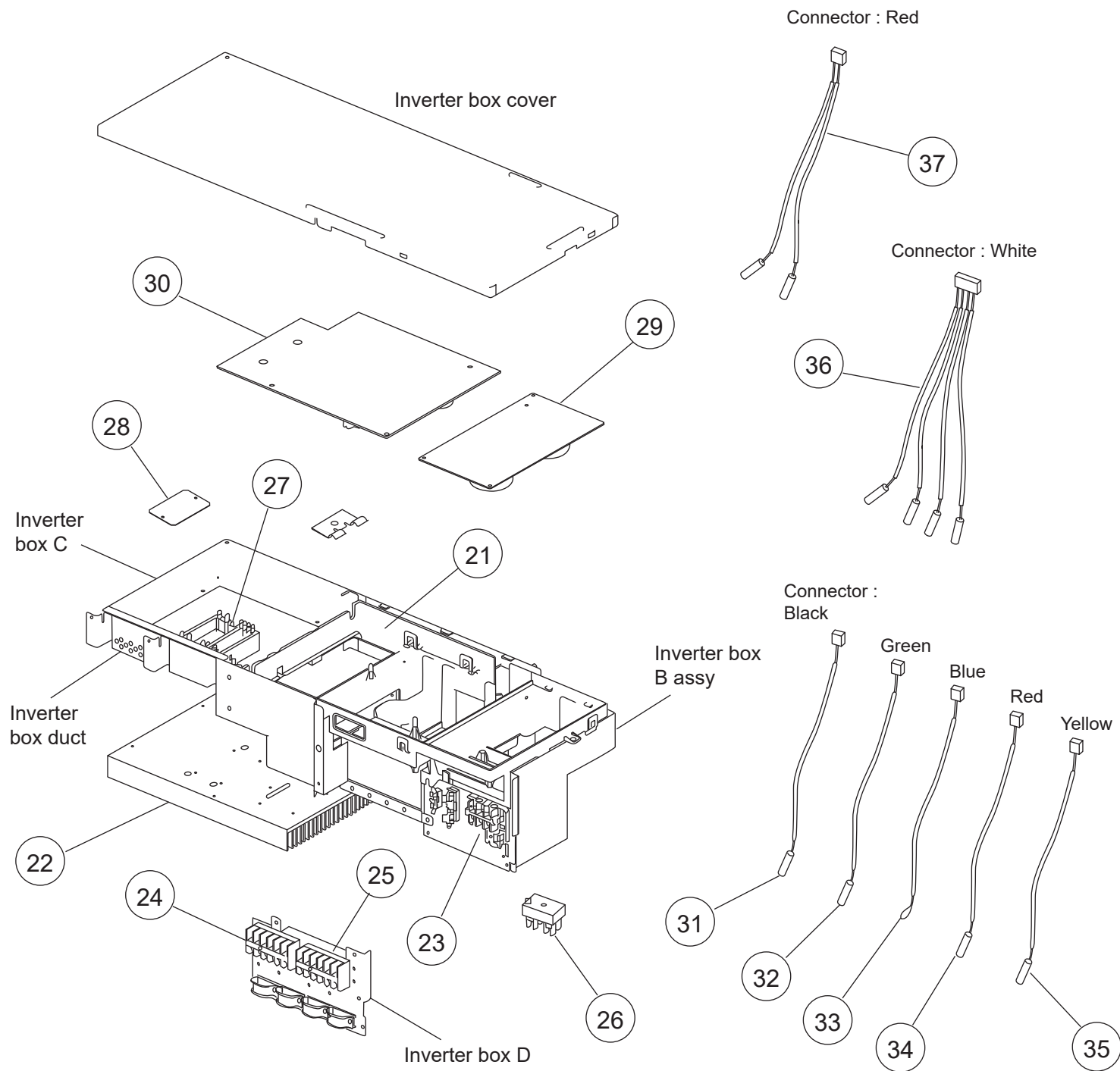
Ref	Description	Parts number	
61	Motor Step (Damper)	9900384050	
62	Micro Switch (Limit Switch)	9900424015	
63	Motor Step (Damper Lock Left)	9900384067	
--	Drain Pan Assy (Includes number 64-71,73-80)	9316412033	
64	Limit Switch Cover	9316217010	
65	Key Top	9316218017	
66	Drain Cap	9316177017	
67	Drain Hose Assy	9314147029	
68	Drain Holder	9316384019	
69	Drain Pan U	9316214026	
70	Drain Cover F	9316274013	
71	Drain Cover B	9316386013	
72	Step Motor (Damper Lock Right)	9900384074	
73	Damper	9316216013	
74	Fan Guard Z	9316918009	
75	R and L Louver Z	9316334014	
76	Joint Z	9316335011	
77	Spacer D	9315282019	
78	Drain Pan Z	9316215016	
79	Stopper	9316219014	
80	Under Cover	9316374010	



Parts list

OUTDOOR UNIT
AOU24RLXFZ

Ref.	Description	Part number	
1	Protective Net S	9375381028	
--	Rubber (Net)	9375361013	
2	Thermo Holder	9375211011	
3	Top Panel Sub Assy	9374417049	
4	Front Panel Sub Assy	9374414123	
--	Conduit Plate	9375174026	
5	Service Panel Sub Assy	9374415045	
6	Fan Guard	9380332008	
7	Valve Cover Sub Assy	9374827015	
8	Right Panel Sub Assy	9374416172	
9	DC Fan Motor	9603777012	
10	Propeller Fan Assy	9366378020 9366378037	
11	Drain Assy	9303029015	
12	Drain Cap	313166024302	
13	Motor Bracket Sub Assy	9374418060	
14	Base Sub Assy	9375304102	

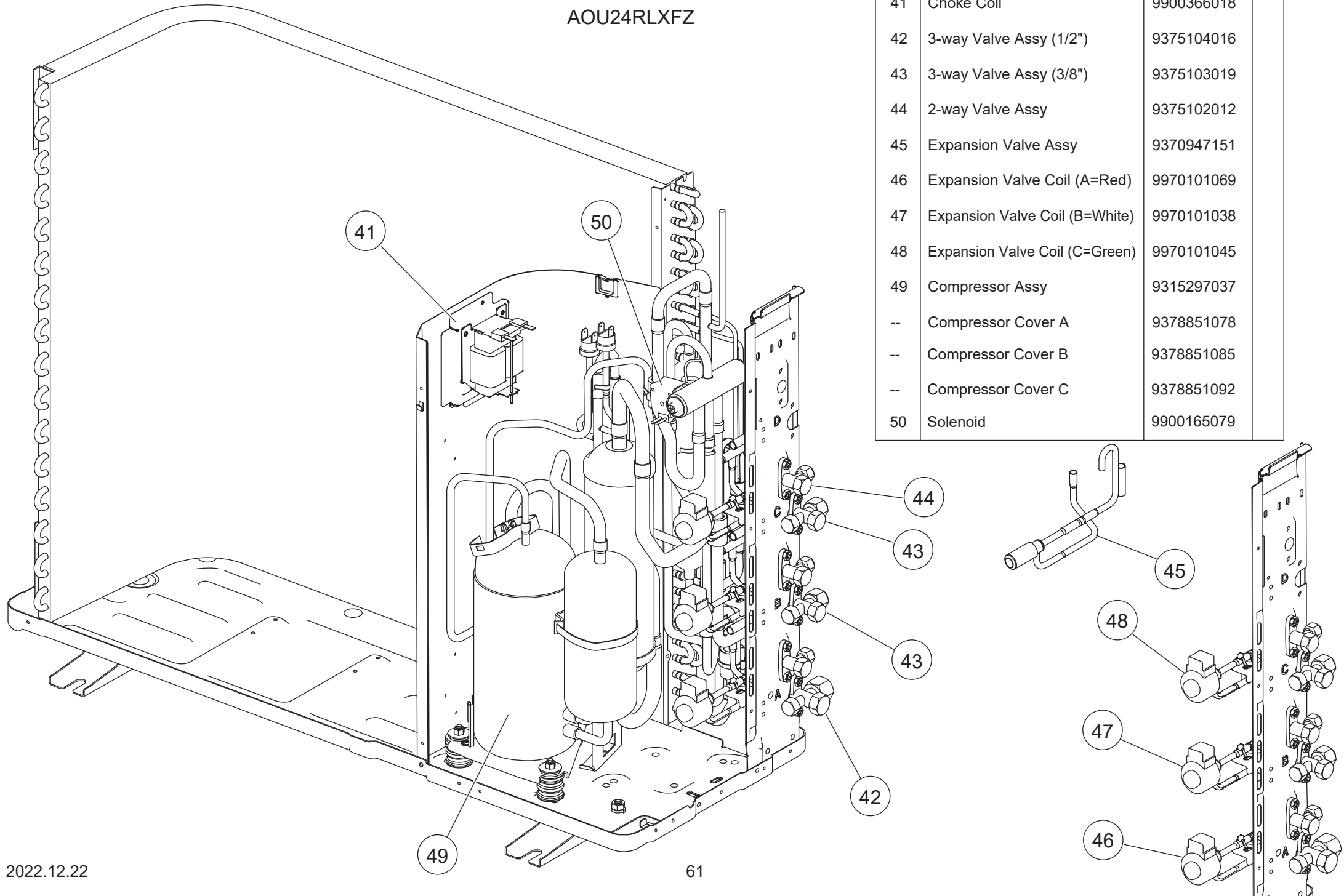


OUTDOOR UNIT AOU24RLXFZ

Ref.	Description	Part number
21	Inverter Box A	9374603015
22	Heat Sink A	9375138011
23	Terminal (3P)	9900203016
24	Terminal (6P)	9900016036
25	Terminal (3P)	9306489045
26	Terminal (3P)	9900433017
27	ACTPM	9703457012
28	Semiconductor Accessory	9704832016
29	Power Supply PCB	9709893081
30	Main PCB (Service unit)	9709682784
31	Heat Exchanger Thermistor	9900958015
32	Compressor Thermistor	9900819019
33	Thermistor (Outdoor)	9900477011
34	Heat Exchanger Thermistor	9900817015
35	Discharge Thermistor	9900621018
36	Thermistor Assy (White)	9900965013
37	Thermistor Assy (Red)	9900969011

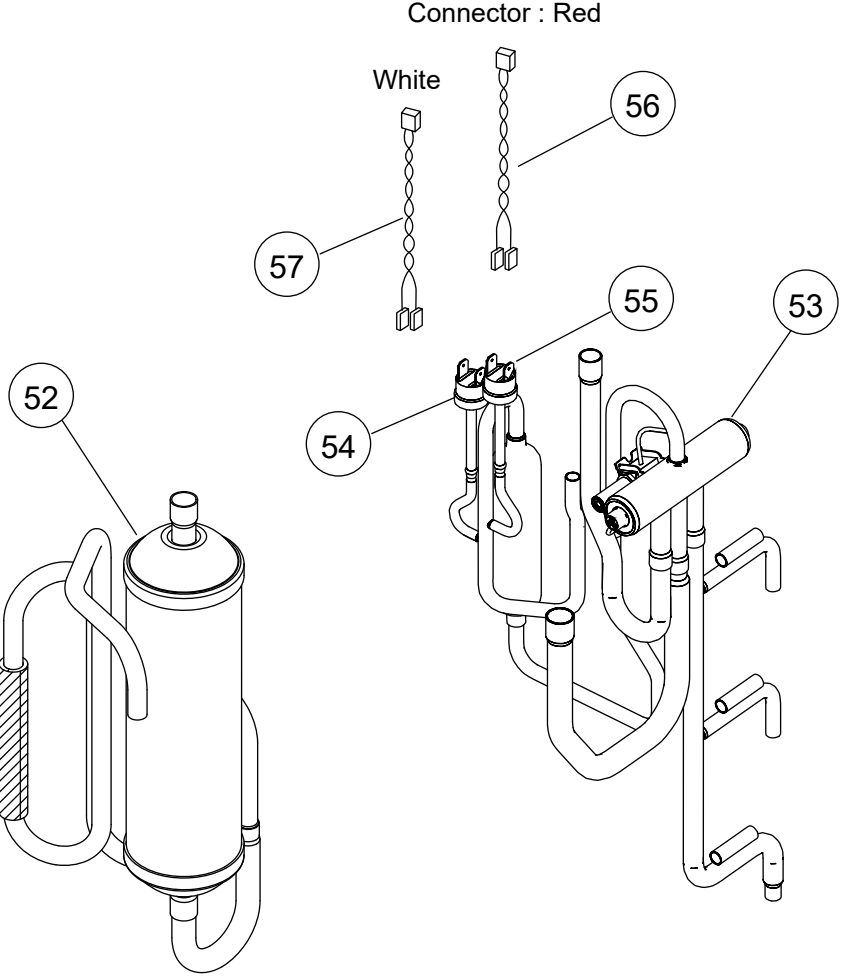
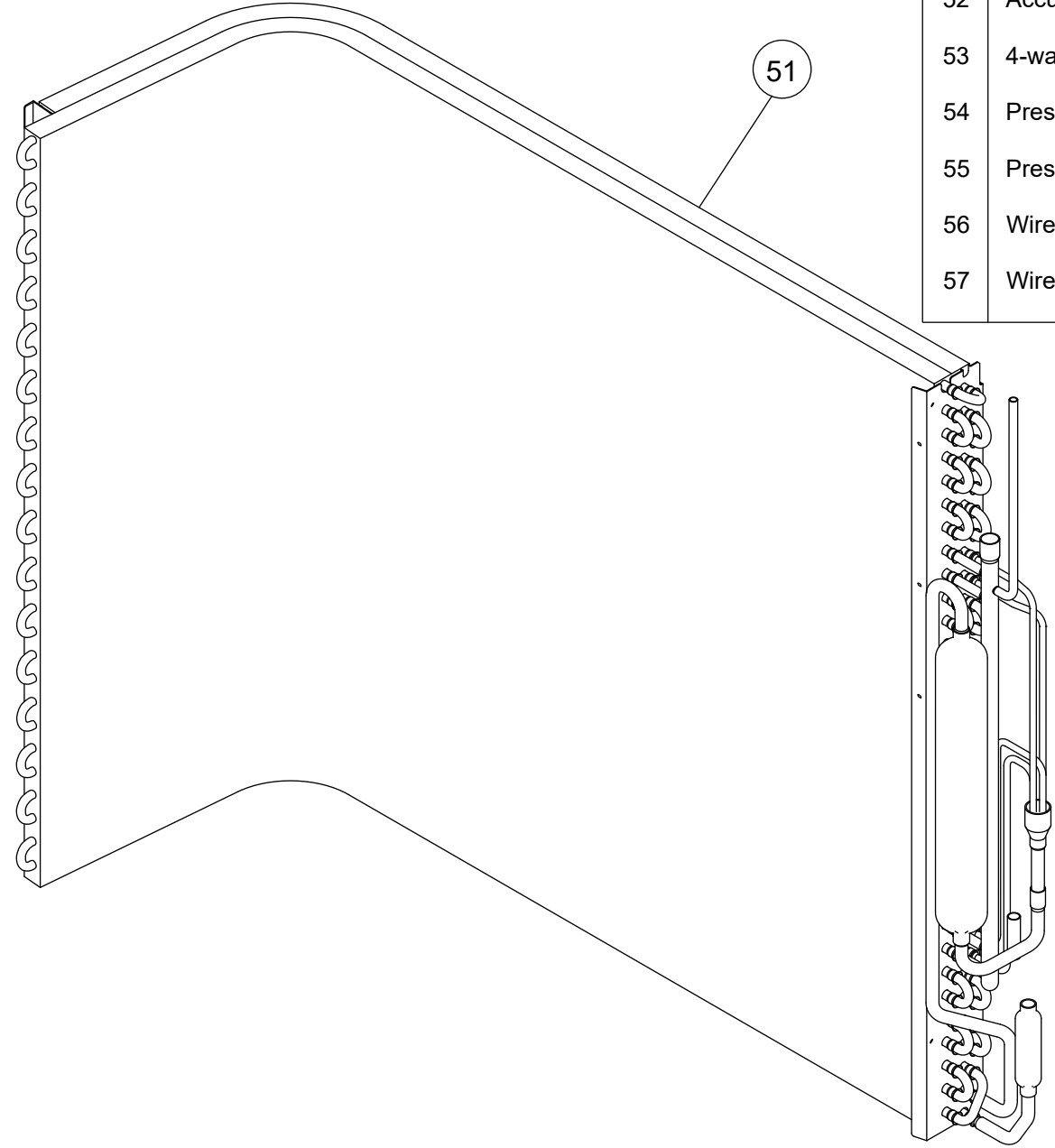
OUTDOOR UNIT AOU24RLXFZ

Ref.	Description	Part number
41	Choke Coil	9900366018
42	3-way Valve Assy (1/2")	9375104016
43	3-way Valve Assy (3/8")	9375103019
44	2-way Valve Assy	9375102012
45	Expansion Valve Assy	9370947151
46	Expansion Valve Coil (A=Red)	9970101069
47	Expansion Valve Coil (B=White)	9970101038
48	Expansion Valve Coil (C=Green)	9970101045
49	Compressor Assy	9315297037
--	Compressor Cover A	9378851078
--	Compressor Cover B	9378851085
--	Compressor Cover C	9378851092
50	Solenoid	9900165079



OUTDOOR UNIT
AOU24RLXFZ

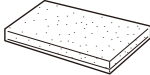
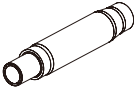
Ref.	Description	Part number	
51	Condenser A Sub Assy	9374420223	
52	Accumulator Assy	9375250027	
53	4-way Valve Assy	9374425136	
54	Pressure Switch (4.2MP)	9900186012	
55	Pressure Switch (3.7MP)	9900341015	
56	Wire (Pressure Sw) (Red)	9377823014	
57	Wire (Pressure Sw) (White)	9377823021	



Accessories (Indoor unit)

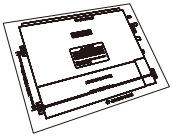
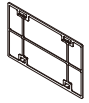
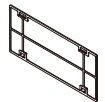
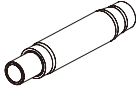
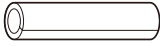
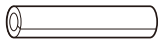
1. Compact cassette type

■ **Models: ACUH07LUAS1, ACUH09LUAS1, ACUH12LUAS1, and ACUH18LUAS1**

Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Operating manual		1	Drain hose insulation		1
Installation manual		1	Hose band		1
Template (Carton top)		1	Coupler heat insulation (large)		1
Special nut A (large flange)		4	Coupler heat insulation (small)		1
Special nut B (small flange)		4	Cable tie (for electrical wiring)		2
Drain hose		1			

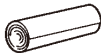
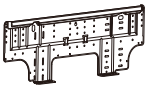
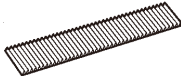
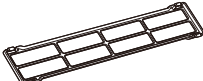
2. Slim duct type

■ Models: ADUH07LUAS1, ADUH09LUAS1, ADUH12LUAS1 and ADUH18LUAS1

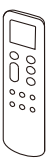
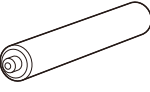
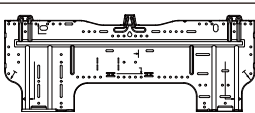
Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Operating manual		1	Cable tie (large)		4
Installation manual		1	Cable tie (medium)		3
Installation template		1	Filter (small) (Other than 18 model)		2
Washer		8	Filter (large) (For 18 model)		2
Drain hose		1	Coupler heat insulation (large)		1
Hose band		1	Coupler heat insulation (small)		1
Drain hose insulation B		1			

3. Wall mounted type

■ Models: ASU7RLF1, ASU9RLF1, ASU12RLF1, and ASU15RLF1

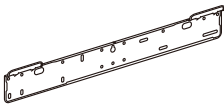
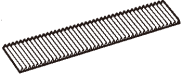
Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Operating manual		1	Cloth tape		1
Installation manual		1	Tapping screw (large)		5
Wall hook bracket		1	Tapping screw (small)		2
Remote controller		1	Air cleaning filter		2
Battery		2	Filter holder		2
Remote controller holder		1	Seal A • It is necessary when using 15 model. • It is used when the diameter of gas pipe is Ø1/2 in (12.70 mm) or more.		1

■ **Models: ASUH07LPAS, ASUH09LPAS, ASUH12LPAS, ASUH15LPAS and ASUH18LPAS**

Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Operating manual		1	Tapping screw (large)		5
Installation manual		1	Tapping screw (small)		2
Remote controller		1	Battery		2
Remote controller holder		1	Wall hook bracket		1
Cloth tape		1	Ion deodorization filter		1
Filter holder		2	Apple-catechin filter		1
Seal A - It is necessary when using 15 model. - It is used when the diameter of gas pipe is Ø1/2 in (12.70 mm) or more.		1			

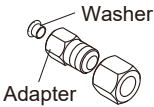
4. Floor type

■ Models: AGU9RLF, AGU12RLF, and AGU15RLF

Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Operating manual		1	Cable tie		1
Installation manual		1	Cloth tape		1
Wall hook bracket		1	Tapping screw (large)		9
Remote controller		1	Tapping screw (small)		2
Battery		2	Air cleaning filter		2
Remote controller holder		1			

Accessories (Outdoor unit)

■ Model: AOU24RLXFZ

Part name	Exterior	Q'ty	Part name	Exterior	Q'ty
Installation manual		1	Drain pipe		1
Drain cap		5	Adapter assembly, 1/2 (12.7)→3/8 (9.52) [in (mm)]		1

