

SERVICE MANUAL



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Outdoor unit

AOU36RLXFZH

AOU45RLXFZ

Indoor unit

ASU7RLF1

ASU9RLF1

ASU12RLF1

ASU15RLF1

ASU18RLF

ASU24RLF

ARU7RLF

ARU9RLF

ARU12RLF

ARU18RLF

ARU24RLF

AUU7RLF

AUU9RLF

AUU12RLF

AUU18RLF

UTG-CCGF

AGU9RLF

AGU12RLF

AGU15RLF

About slim duct models, only
FGCA products are available
for these outdoor units.

Their serial numbers are
ARU9RLF : KYA002001 -
ARU12RLF : LNA002001 -
ARU18RLF : LPA002001 -
ARU24RLF : LQA002001 -

SPECIFICATIONS

Standard combination		AOU36RLXFZH ASU9RLF1 x 4	AOU36RLXFZH ARU9RLF x 4
Power supply		Single phase 208/230 Volts 60Hz	
Cooling	Capacity	35,200 Btu/h	35,200 Btu/h
	Power consumption	2,700 Watts	2,930 Watts
	EER	13.0 Btu/hW	12.0 Btu/hW
	Current	11.9 Amperes	12.9 Amperes
Heating	Capacity	36,400 Btu/h	36,400 Btu/h
	Power consumption	2,670 Watts	2,740 Watts
	COP	4.00 W/W	3.88 W/W
	Current	11.8 Amperes	12.1 Amperes
Total max current		26.0 Amperes	26.0 Amperes

Standard combination		AOU45RLXFZ ASU9RLF1 x 5	AOU45RLXFZ ARU9RLF x 5
Power supply		Single phase 208/230 Volts 60Hz	
Cooling	Capacity	45,000 Btu/h	45,000 Btu/h
	Power consumption	4,280 Watts	4,590 Watts
	EER	10.5 Btu/hW	9.8 Btu/hW
	Current	18.8 Amperes	20.1 Amperes
Heating	Capacity	48,000 Btu/h	46,000 Btu/h
	Power consumption	3,880 Watts	3,890 Watts
	COP	3.60 W/W	3.46 W/W
	Current	17.0 Amperes	17.0 Amperes
Total max current		23.8 Amperes	23.8 Amperes

OUTDOOR UNIT

FAN MOTOR AND FAN REVOLUTION

Model name	AOU36RLXFZH	AOU45RLXFZ
Discrimination	MFE-ZA2VA2N	
Cooling	830 rpm	
Heating	830 rpm	

AIR CIRCULATION

Cooling	2,471 cfm	4,200 m3/h
Heating	2,471 cfm	4,200 m3/h

NOISE LEVEL

Cooling	53.0 dB
Heating	55.0 dB

COMPRESSOR

Type	Hermetic, 2-cylinder rotary compressor, Brushless DC motor, 6 poles
Discrimination	N-TF30VD1A
Weight (with oil)	35 lbs 12 oz 16.2 kg

REFRIGERANT

Refrigerant type	R410A		
Precharged refrigerant	8 lbs 13 oz 4,000 g		
Full charge	Total pipe length	50 m	8 lbs 13 oz 4,000 g
		60 m	9 lbs 4 oz 4,200 g
		70 m	9 lbs 11 oz 4,400 g
		80 m	AOU36RLXFZH not available
Additional charge	20 g/m		

MEASUREMENT

Dimensions H x W x D	39-5/16 x 38-3/16 x 14-9/16 inch 998 x 970 x 370 mm
Weight Net / Shipping	205 lbs / 229 lbs 4 oz 93 kg / 104 kg

**INDOOR UNIT
COMPACT WALL MOUNTED**

ELECTRICAL DATA

MODEL NAME	ASU7RLF1	ASU9RLF1	ASU12RLF1	ASU15RLF1
CAPACITY	7,000 Btu/h class	9,000 Btu/h class	12,000 Btu/h class	14,000 Btu/h class

FAN MOTOR

DISCRIMINATION		MFD-12CYAN								
FAN REVOLUTION	Cooling	High	1,050 rpm	1,090 rpm	1,190 rpm	1,280 rpm				
		Medium	950 rpm	980 rpm	1,050 rpm	1,090 rpm				
		Low	850 rpm	850 rpm	880 rpm	1,000 rpm				
		Quiet	680 rpm	680 rpm	680 rpm	750 rpm				
	Heating	High	1,050 rpm	1,090 rpm	1,190 rpm	1,280 rpm				
		Medium	950 rpm	980 rpm	1,050 rpm	1,120 rpm				
		Low	850 rpm	850 rpm	910 rpm	1,050 rpm				
		Quiet	710 rpm	710 rpm	710 rpm	770 rpm				
AIR FLOW	Cooling	High	330 cfm 560 m ³ /h	353 cfm 600 m ³ /h	388 cfm 660 m ³ /h	729 cfm 730 m ³ /h				
		Medium	294 cfm 500 m ³ /h	306 cfm 520 m ³ /h	330 cfm 560 m ³ /h	353 cfm 600 m ³ /h				
		Low	253 cfm 430 m ³ /h	253 cfm 430 m ³ /h	265 cfm 450 m ³ /h	312 cfm 530 m ³ /h				
		Quiet	182 cfm 310 m ³ /h	182 cfm 310 m ³ /h	182 cfm 310 m ³ /h	212 cfm 360 m ³ /h				
	Heating	High	330 cfm 560 m ³ /h	353 cfm 600 m ³ /h	388 cfm 660 m ³ /h	429 cfm 730 m ³ /h				
		Medium	294 cfm 500 m ³ /h	306 cfm 520 m ³ /h	330 cfm 560 m ³ /h	362 cfm 615 m ³ /h				
		Low	253 cfm 430 m ³ /h	253 cfm 430 m ³ /h	277 cfm 470 m ³ /h	330 cfm 560 m ³ /h				
		Quiet	194 cfm 330 m ³ /h	194 cfm 330 m ³ /h	194 cfm 330 m ³ /h	220 cfm 375 m ³ /h				
NOISE LEVEL	Cooling	High	36 dB(A)	37 dB(A)	40 dB(A)	42 dB(A)				
		Medium	32 dB(A)	33 dB(A)	36 dB(A)	38 dB(A)				
		Low	29 dB(A)	29 dB(A)	30 dB(A)	33 dB(A)				
		Quiet	21 dB(A)	21 dB(A)	21 dB(A)	25 dB(A)				
	Heating	High	36 dB(A)	37 dB(A)	40 dB(A)	42 dB(A)				
		Medium	32 dB(A)	33 dB(A)	36 dB(A)	38 dB(A)				
		Low	29 dB(A)	29 dB(A)	31 dB(A)	35 dB(A)				
		Quiet	22 dB(A)	22 dB(A)	22 dB(A)	27 dB(A)				

MEASUREMENTS

DIMENSIONS	H x W x D	10-9/16 x 33-1/16 x 8 inch	268 x 840 x 203 mm
WEIGHT	Net / Shipping	19 lbs / 23 lbs	8.5 kg / 10.5 kg

**INDOOR UNIT
WALL MOUNTED**

ELECTRICAL DATA

MODEL NAME	ASU18RLF	ASU24RLF
CAPACITY	18,000 Btu/h class	24,000 Btu/h class

FAN MOTOR

DISCRIMINATION		MFD-50RON				
FAN REVOLUTION	Cooling	High	1,260 rpm	1,480 rpm		
		Medium	1,020 rpm	1,220 rpm		
		Low	900 rpm	1,020 rpm		
		Quiet	770 rpm	900 rpm		
	Heating	High	1,260 rpm	1,430 rpm		
		Medium	1,020 rpm	1,220 rpm		
		Low	900 rpm	1,020 rpm		
		Quiet	790 rpm	900 rpm		
AIR FLOW	Cooling	High	542 cfm 920 m ³ /h	659 cfm 1,120 m ³ /h		
		Medium	436 cfm 740 m ³ /h	530 cfm 900 m ³ /h		
		Low	365 cfm 620 m ³ /h	436 cfm 740 m ³ /h		
		Quiet	324 cfm 550 m ³ /h	365 cfm 620 m ³ /h		
	Heating	High	542 cfm 920 m ³ /h	647 cfm 1,100 m ³ /h		
		Medium	436 cfm 740 m ³ /h	530 cfm 900 m ³ /h		
		Low	365 cfm 620 m ³ /h	436 cfm 740 m ³ /h		
		Quiet	324 cfm 550 m ³ /h	365 cfm 620 m ³ /h		
NOISE LEVEL	Cooling	High	43 dB(A)	49 dB(A)		
		Medium	37 dB(A)	42 dB(A)		
		Low	33 dB(A)	37 dB(A)		
		Quiet	31 dB(A)	33 dB(A)		
	Heating	High	44 dB(A)	48 dB(A)		
		Medium	37 dB(A)	42 dB(A)		
		Low	33 dB(A)	37 dB(A)		
		Quiet	31 dB(A)	33 dB(A)		

MEASUREMENTS

DIMENSIONS	H x W x D	12-5/8 x 39-1/4 x 9 inch	320 x 998 x 228 mm
WEIGHT	Net / Shipping	31 lbs / 40 lbs	14 kg / 18 kg

INDOOR UNIT
SLIM DUCT
ELECTRICAL DATA

MODEL NAME	ARU7RLF	ARU9RLF	ARU12RLF
CAPACITY	9,000 Btu/h class	9,000 Btu/h class	12,000 Btu/h class

FAN MOTOR

DISCRIMINATION		MFG-09WVL			
FAN REVOLUTION	Cooling	High	1,260 rpm	1,260 rpm	1,340 rpm
		Medium	1,160 rpm	1,160 rpm	1,240 rpm
		Low	1,060 rpm	1,060 rpm	1,140 rpm
		Quiet	960 rpm	960 rpm	1,030 rpm
	Heating	High	1,260 rpm	1,260 rpm	1,340 rpm
		Medium	1,160 rpm	1,160 rpm	1,240 rpm
		Low	1,060 rpm	1,060 rpm	1,140 rpm
		Quiet	960 rpm	960 rpm	1,030 rpm
AIR FLOW	Cooling	High	324 cfm 550 m ³ /h	353 cfm 600 m ³ /h	383 cfm 650 m ³ /h
		Medium	288 cfm 490 m ³ /h	324 cfm 550 m ³ /h	353 cfm 600 m ³ /h
		Low	277 cfm 470 m ³ /h	294 cfm 500 m ³ /h	324 cfm 550 m ³ /h
		Quiet	259 cfm 440 m ³ /h	265 cfm 450 m ³ /h	283 cfm 480 m ³ /h
	Heating	High	324 cfm 550 m ³ /h	353 cfm 600 m ³ /h	383 cfm 650 m ³ /h
		Medium	288 cfm 490 m ³ /h	324 cfm 550 m ³ /h	353 cfm 600 m ³ /h
		Low	277 cfm 470 m ³ /h	294 cfm 500 m ³ /h	324 cfm 550 m ³ /h
		Quiet	259 cfm 440 m ³ /h	265 cfm 450 m ³ /h	283 cfm 480 m ³ /h
NOISE LEVEL	Cooling	High	28 dB(A)	28 dB(A)	29 dB(A)
		Medium	26 dB(A)	27 dB(A)	28 dB(A)
		Low	25 dB(A)	26 dB(A)	27 dB(A)
		Quiet	24 dB(A)	25 dB(A)	26 dB(A)
	Heating	High	28 dB(A)	28 dB(A)	29 dB(A)
		Medium	26 dB(A)	26 dB(A)	28 dB(A)
		Low	25 dB(A)	25 dB(A)	27 dB(A)
		Quiet	24 dB(A)	24 dB(A)	24 dB(A)

MEASUREMENTS

DIMENSIONS	H x W x D	7-25/32 x 27-9/16 x 24-13/32 inch 198 x 700 x 620 mm	
WEIGHT	Net / Shipping	37 lbs / 49 lbs 17 kg / 22 kg	40 lbs / 51 lbs 18 kg / 23 kg

INDOOR UNIT
SLIM DUCT
ELECTRICAL DATA

MODEL NAME	ARU18RLF	ARU24RLF
CAPACITY	18,000 Btu/h class	24,000 Btu/h class

FAN MOTOR

DISCRIMINATION		MFG-24WVAL			
FAN REVOLUTION	Cooling	High	1,380 rpm	1,460 rpm	
		Medium	1,300 rpm	1,360 rpm	
		Low	1,220 rpm	1,260 rpm	
		Quiet	1,140 rpm	1,180 rpm	
	Heating	High	1,380 rpm	1,460 rpm	
		Medium	1,300 rpm	1,360 rpm	
		Low	1,220 rpm	1,260 rpm	
		Quiet	1,140 rpm	1,180 rpm	
AIR FLOW	Cooling	High	554 cfm 940 m ³ /h	783 cfm 1,330 m ³ /h	
		Medium	518 cfm 880 m ³ /h	730 cfm 1,240 m ³ /h	
		Low	483 cfm 820 m ³ /h	648 cfm 1,100 m ³ /h	
		Quiet	442 cfm 750 m ³ /h	607 cfm 1,030 m ³ /h	
	Heating	High	554 cfm 940 m ³ /h	783 cfm 1,330 m ³ /h	
		Medium	518 cfm 880 m ³ /h	730 cfm 1,240 m ³ /h	
		Low	483 cfm 820 m ³ /h	648 cfm 1,100 m ³ /h	
		Quiet	442 cfm 750 m ³ /h	607 cfm 1,030 m ³ /h	
NOISE LEVEL	Cooling	High	32 dB(A)	33 dB(A)	
		Medium	31 dB(A)	32 dB(A)	
		Low	30 dB(A)	30 dB(A)	
		Quiet	29 dB(A)	29 dB(A)	
	Heating	High	33 dB(A)	35 dB(A)	
		Medium	32 dB(A)	34 dB(A)	
		Low	31 dB(A)	32 dB(A)	
		Quiet	29 dB(A)	29 dB(A)	

MEASUREMENTS

DIMENSIONS	H x W x D	7-25/32 x 35-7/16 x 24-13/32 inch 198 x 900 x 620 mm	7-25/32 x 43-5/16 x 24-13/32 inch 198 x 1,100 x 620 mm
WEIGHT	Net / Shipping	49 lbs / 60 lbs 22 kg / 27 kg	55 lbs / 68 lbs 25 kg / 31 kg

**INDOOR UNIT
COMPACT CASSETTE**

ELECTRICAL DATA

MODEL NAME	AUU7RLF	AUU9RLF	AUU12RLF	AUU18RLF
CAPACITY	9,000 Btu/h class	9,000 Btu/h class	12,000 Btu/h class	18,000 Btu/h class

FAN MOTOR

DISCRIMINATION		MFF-24VV L								
FAN REVOLUTION	Cooling	High	590 rpm	590 rpm	660 rpm	790 rpm				
		Medium	540 rpm	540 rpm	580 rpm	660 rpm				
		Low	490 rpm	490 rpm	520 rpm	570 rpm				
		Quiet	440 rpm	440 rpm	460 rpm	460 rpm				
	Heating	High	590 rpm	590 rpm	650 rpm	840 rpm				
		Medium	540 rpm	540 rpm	580 rpm	750 rpm				
		Low	490 rpm	490 rpm	520 rpm	650 rpm				
Quiet	440 rpm	440 rpm	460 rpm	500 rpm						
AIR FLOW	Cooling	High	318 cfm 540 m ³ /h	318 cfm 540 m ³ /h	359 cfm 610 m ³ /h	441 cfm 750 m ³ /h				
		Medium	288 cfm 490 m ³ /h	288 cfm 490 m ³ /h	312 cfm 530 m ³ /h	359 cfm 610 m ³ /h				
		Low	259 cfm 440 m ³ /h	259 cfm 440 m ³ /h	277 cfm 470 m ³ /h	306 cfm 520 m ³ /h				
		Quiet	230 cfm 390 m ³ /h	230 cfm 390 m ³ /h	241 cfm 410 m ³ /h	241 cfm 410 m ³ /h				
	Heating	High	318 cfm 540 m ³ /h	318 cfm 540 m ³ /h	359 cfm 610 m ³ /h	471 cfm 800 m ³ /h				
		Medium	288 cfm 490 m ³ /h	288 cfm 490 m ³ /h	312 cfm 530 m ³ /h	418 cfm 710 m ³ /h				
		Low	259 cfm 440 m ³ /h	259 cfm 440 m ³ /h	277 cfm 470 m ³ /h	353 cfm 600 m ³ /h				
Quiet	230 cfm 390 m ³ /h	230 cfm 390 m ³ /h	241 cfm 410 m ³ /h	265 cfm 450 m ³ /h						
NOISE LEVEL	Cooling	High	33 dB(A)	33 dB(A)	37 dB(A)	42 dB(A)				
		Medium	31 dB(A)	31 dB(A)	33 dB(A)	37 dB(A)				
		Low	29 dB(A)	29 dB(A)	31 dB(A)	33 dB(A)				
		Quiet	27 dB(A)	27 dB(A)	28 dB(A)	29 dB(A)				
	Heating	High	34 dB(A)	34 dB(A)	37 dB(A)	44 dB(A)				
		Medium	32 dB(A)	32 dB(A)	33 dB(A)	40 dB(A)				
		Low	29 dB(A)	29 dB(A)	31 dB(A)	37 dB(A)				
Quiet	27 dB(A)	27 dB(A)	28 dB(A)	30 dB(A)						

MEASUREMENTS

DIMENSIONS H x W x D	9-21/32 x 22-7/16 x 22-7/16 inch	245 x 570 x 570 mm
WEIGHT Net / Shipping	33 lbs / 40 lbs	15 kg / 18 kg

PANEL MEASUREMENTS

MODEL NAME	UTG-CCGF	
DIMENSIONS H x W x D	1-15/16 x 27-9/16 x 27-9/16 inch	49 x 700 x 700 mm
WEIGHT Net / Shipping	5.7 lbs / 10 lbs	2.6 kg / 4.5 kg

**INDOOR UNIT
FLOOR**

ELECTRICAL DATA

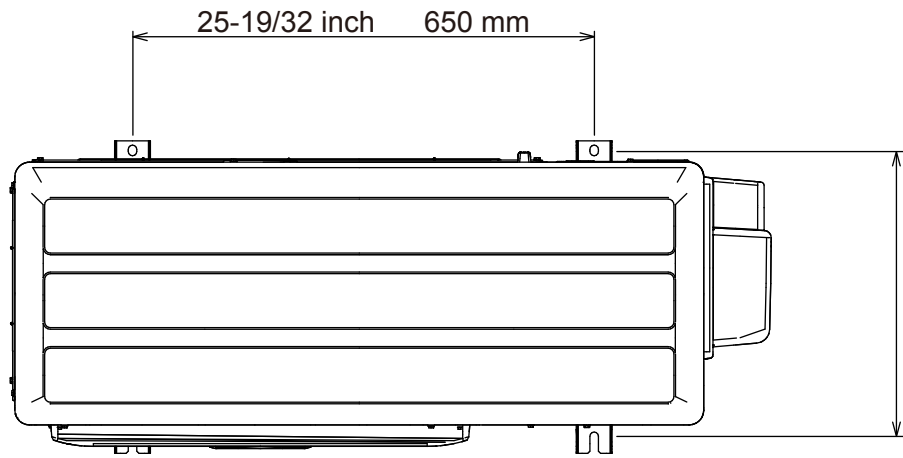
MODEL NAME	AGU9RLF	AGU12RLF	AGU15RLF
CAPACITY	9,000 Btu/h class	12,000 Btu/h class	14,000 Btu/h class

FAN MOTOR

DISCRIMINATION		MFD-14TXAN (upper) / MFD-14SXAN (lower)							
FAN REVOLUTION (upper fan / lower fan)	Cooling	High	1,120 / 950 rpm	1,240 / 1,050 rpm	1,330 / 1,120 rpm				
		Medium	960 / 820 rpm	1,050 / 890 rpm	1,100 / 930 rpm				
		Low	820 / 700 rpm	860 / 730 rpm	890 / 750 rpm				
		Quiet	660 / 560 rpm	660 / 560 rpm	660 / 560 rpm				
	Heating	High	1,120 / 950 rpm	1,240 / 1,050 rpm	1,330 / 1,120 rpm				
		Medium	1,000 / 850 rpm	1,080 / 920 rpm	1,140 / 970 rpm				
		Low	860 / 730 rpm	910 / 770 rpm	940 / 800 rpm				
Quiet	660 / 560 rpm	660 / 560 rpm	660 / 560 rpm						
AIR CIRCULATION HIGH (2 fan running)	Cooling	High	312 cfm 530 m ³ /h	353 cfm 600 m ³ /h	382 cfm 650 m ³ /h				
		Medium	259 cfm 440 m ³ /h	288 cfm 490 m ³ /h	306 cfm 520 m ³ /h				
		Low	212 cfm 360 m ³ /h	223 cfm 380 m ³ /h	235 cfm 400 m ³ /h				
		Quiet	159 cfm 270 m ³ /h	159 cfm 270 m ³ /h	159 cfm 270 m ³ /h				
	Heating	High	312 cfm 530 m ³ /h	353 cfm 600 m ³ /h	382 cfm 650 m ³ /h				
		Medium	270 cfm 460 m ³ /h	300 cfm 510 m ³ /h	318 cfm 540 m ³ /h				
		Low	223 cfm 380 m ³ /h	241 cfm 410 m ³ /h	253 cfm 430 m ³ /h				
Quiet	159 cfm 270 m ³ /h	159 cfm 270 m ³ /h	159 cfm 270 m ³ /h						
NOISE LEVEL	Cooling	High	39 dB(A)	42 dB(A)	44 dB(A)				
		Medium	34 dB(A)	36 dB(A)	38 dB(A)				
		Low	28 dB(A)	30 dB(A)	31 dB(A)				
		Quiet	22 dB(A)	22 dB(A)	22 dB(A)				
	Heating	High	39 dB(A)	42 dB(A)	44 dB(A)				
		Medium	35 dB(A)	38 dB(A)	39 dB(A)				
		Low	30 dB(A)	32 dB(A)	33 dB(A)				
Quiet	22 dB(A)	22 dB(A)	22 dB(A)						

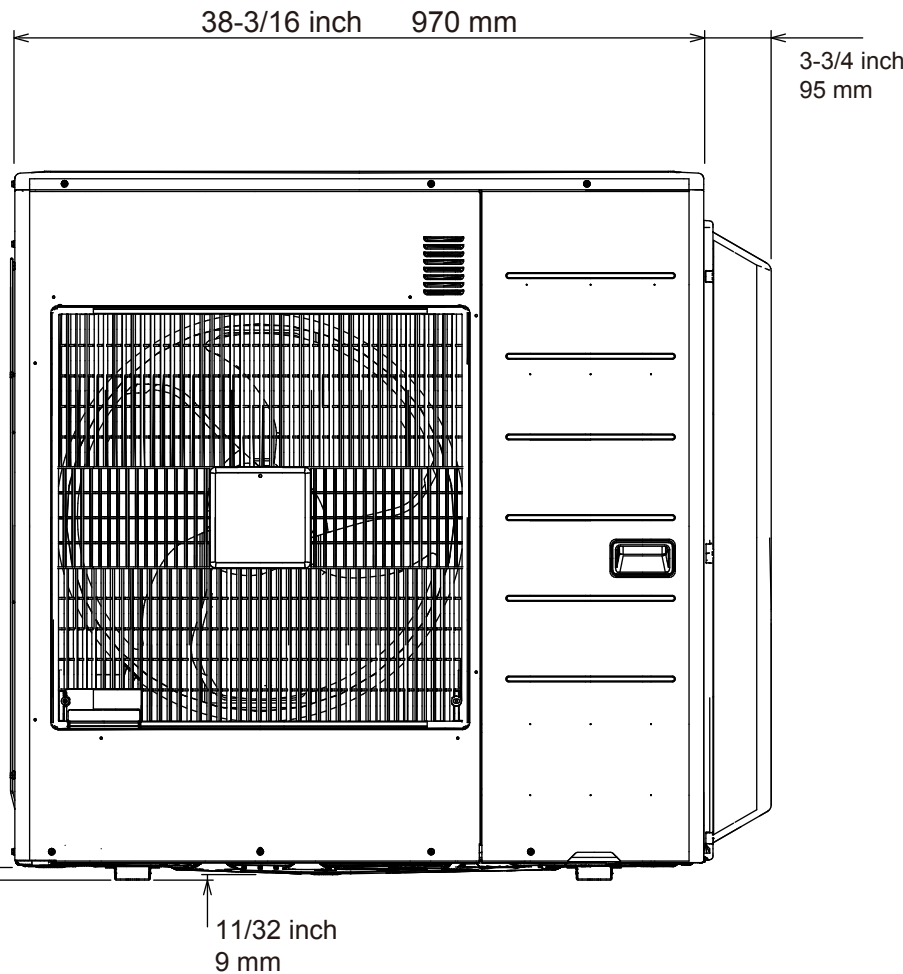
MEASUREMENT

DIMENSIONS H x W x D	23-5/8 x 29-1/8 x 7-7/8 inch	600 x 740 x 200 mm
WEIGHT Net / Shipping	31 lbs / 37 lbs	14 kg / 17 kg



DIMENSIONS

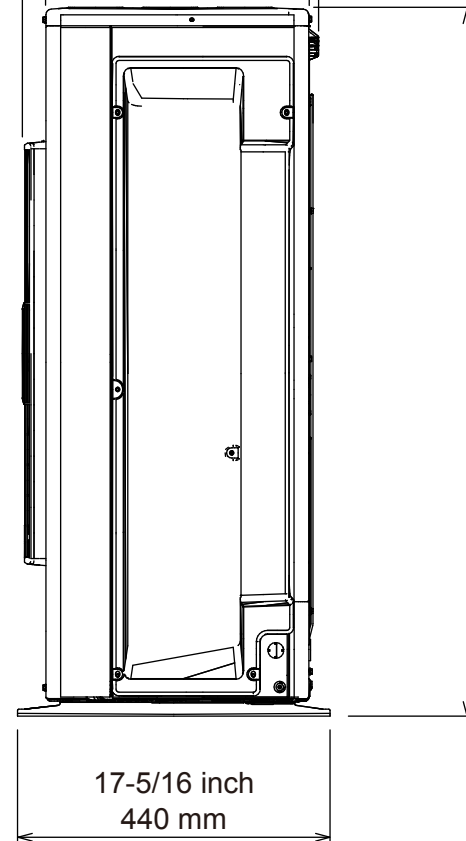
OUTDOOR UNIT
 AOU36RLXFZH
 AOU45RLXFZ



1-5/16 inch 33 mm

14-9/16 inch 370 mm

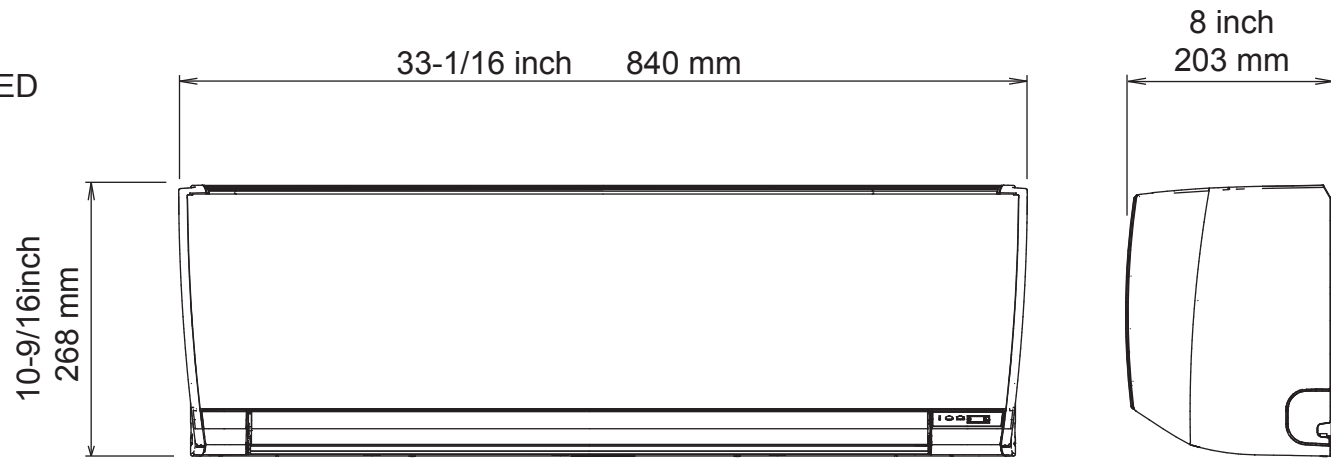
9/16 inch 14 mm



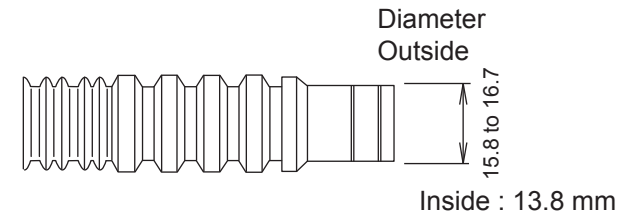
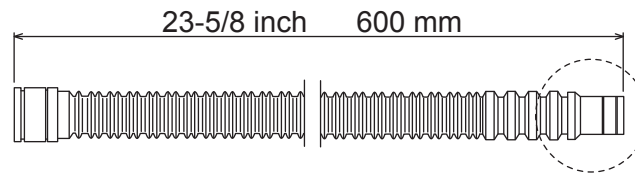
39-5/16 inch 998 mm

17-5/16 inch 440 mm

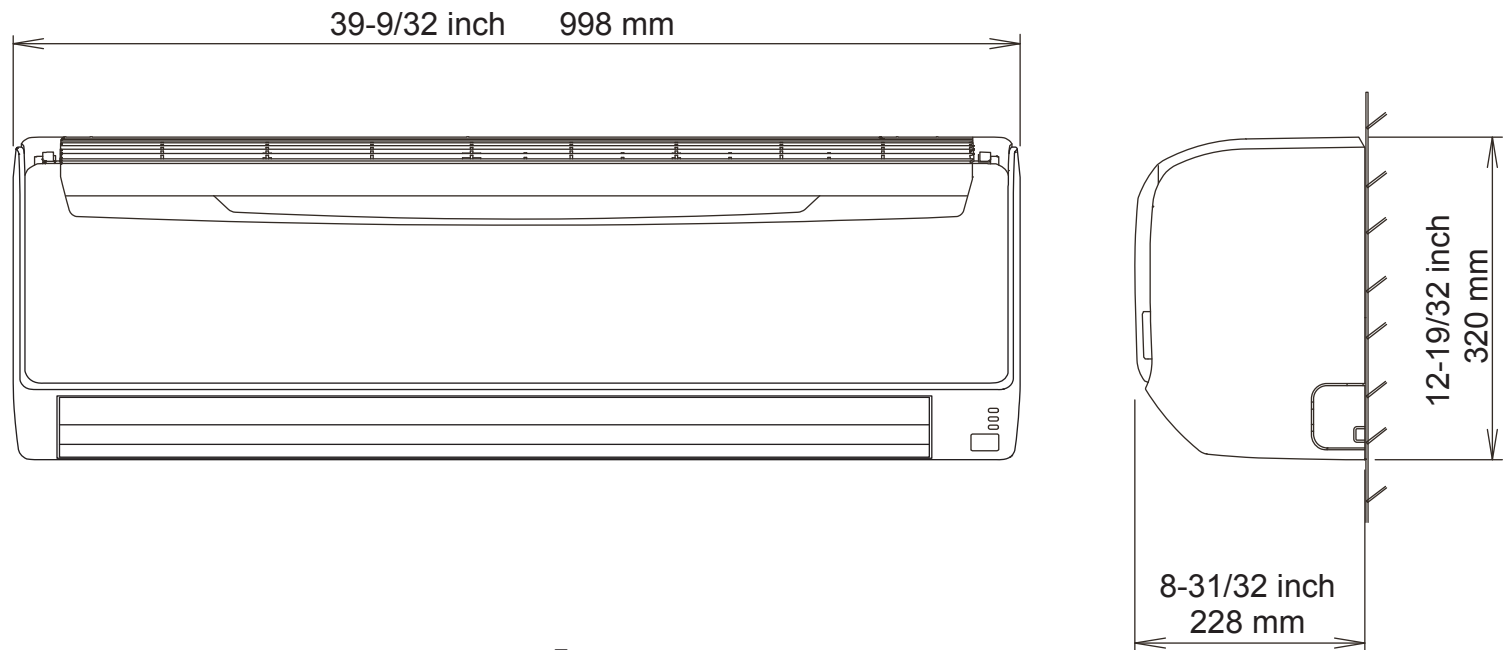
INDOOR UNIT
 COMPACT WALL MOUNTED
 ASU7RLF1
 ASU9RLF1
 ASU12RLF1
 ASU15RLF1

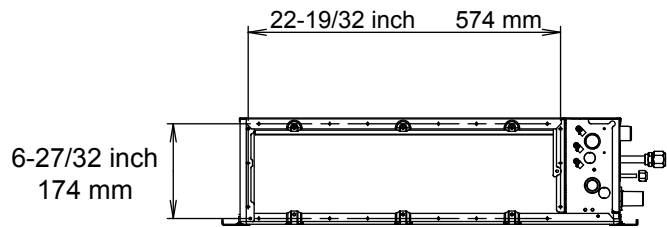


Drain hose

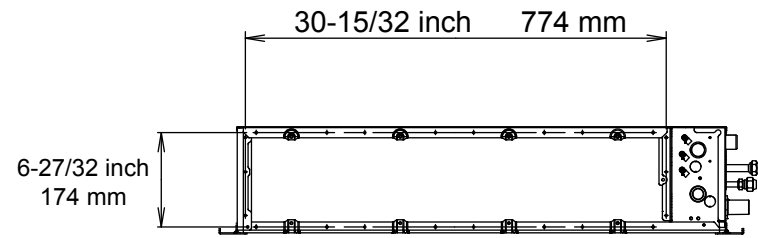


INDOOR UNIT
 WALL MOUNTED
 ASU18RLF
 ASU24RLF

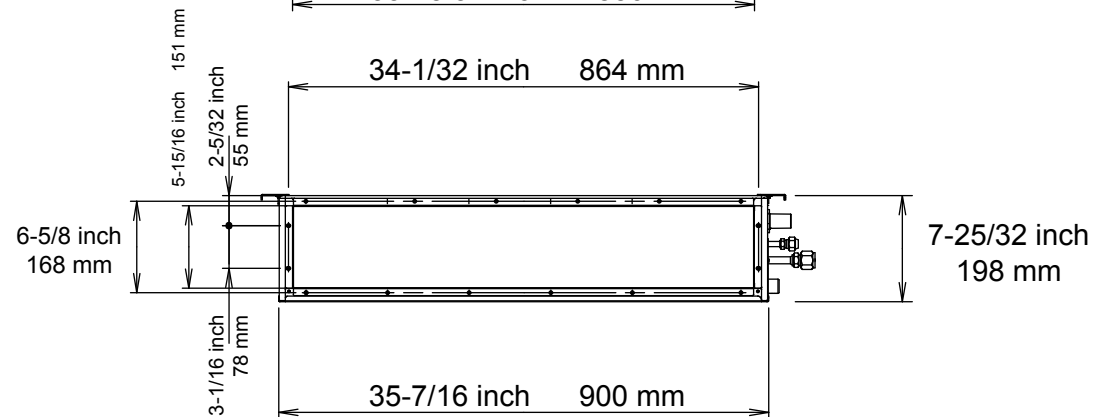
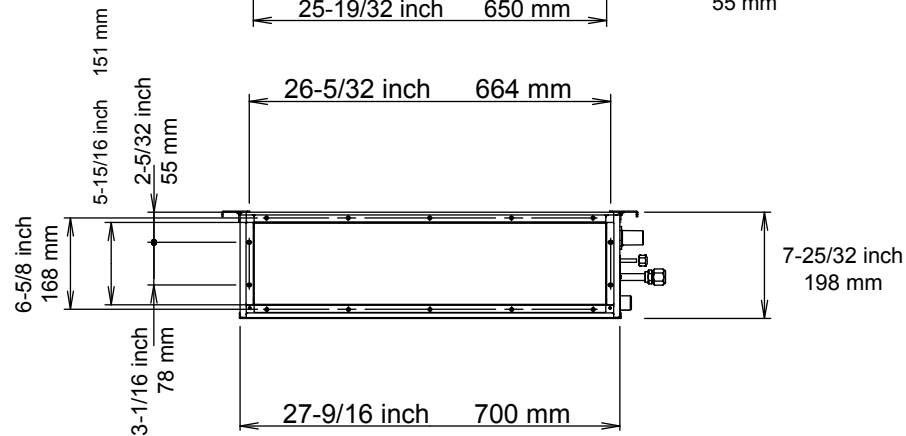
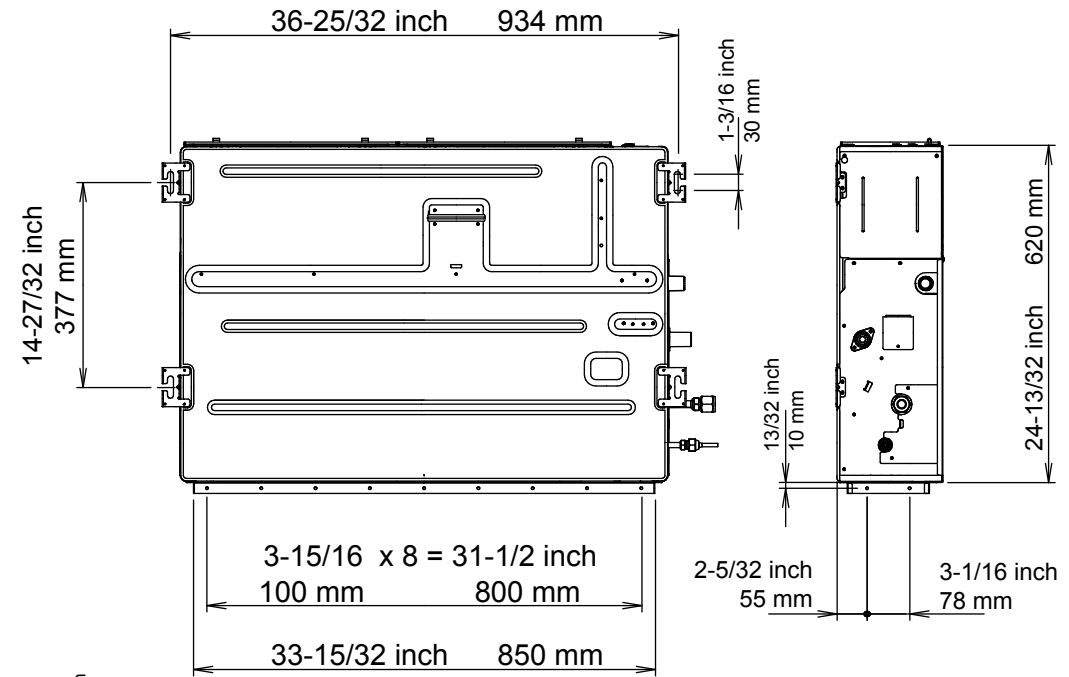
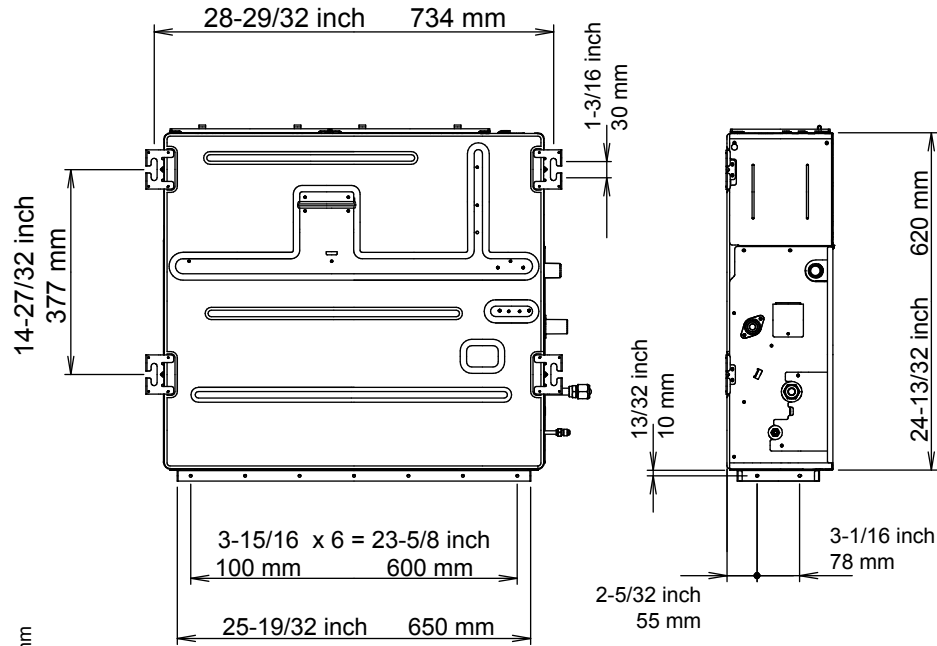


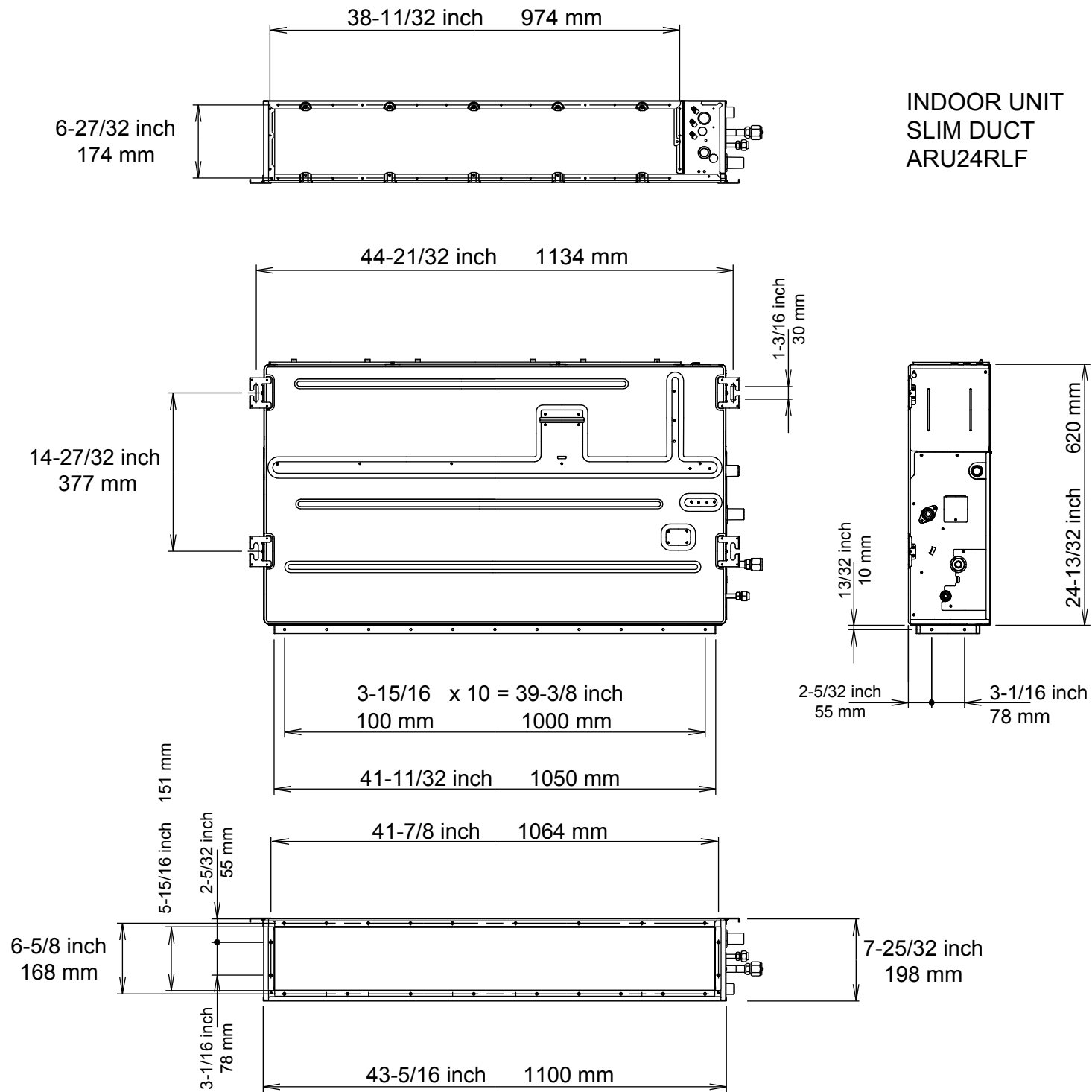


INDOOR UNIT
SLIM DUCT
ARU7RLF
ARU9RLF
ARU12RLF

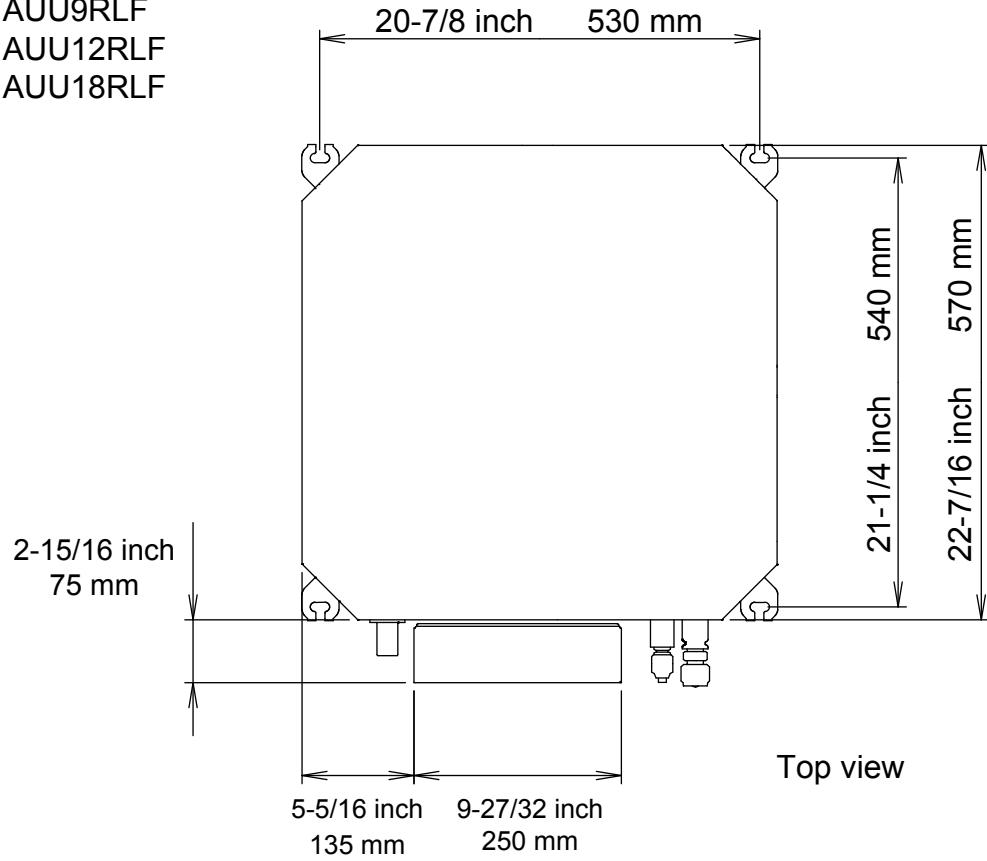


INDOOR UNIT
SLIM DUCT
ARU18RLF



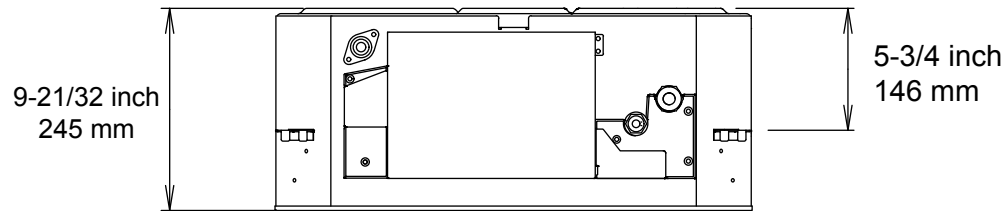


INDOOR UNIT
 COMPACT CASSETTE
 AUU7RLF
 AUU9RLF
 AUU12RLF
 AUU18RLF



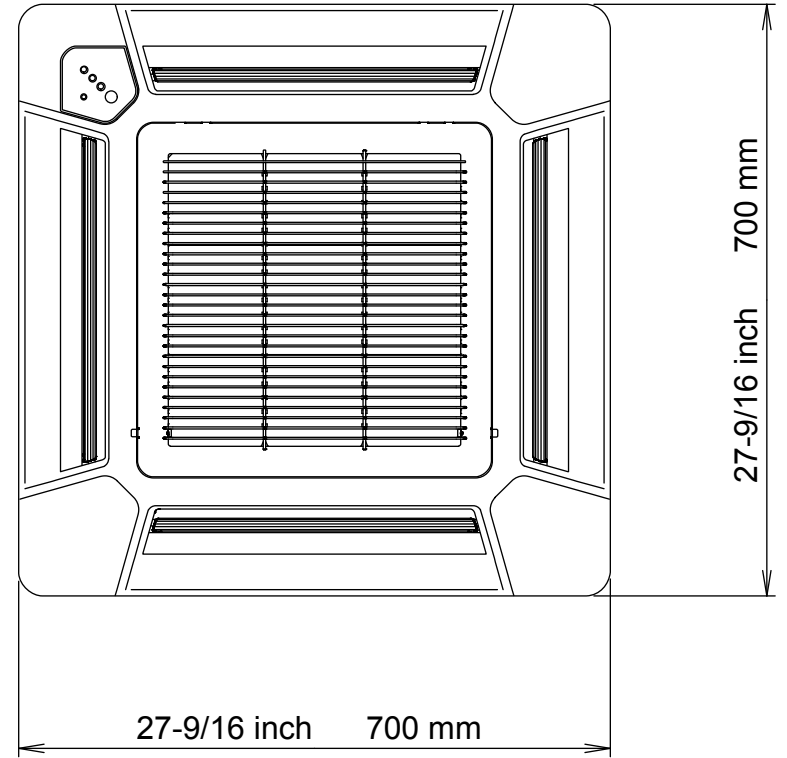
Top view

Side view

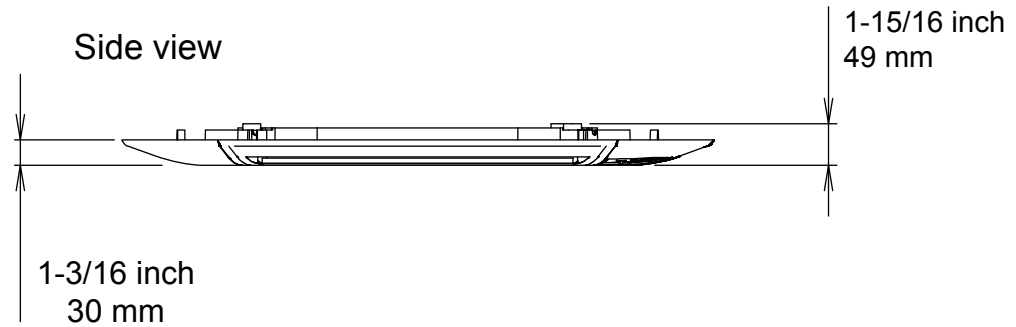


DECORATION PANEL
 UTG-CCGF

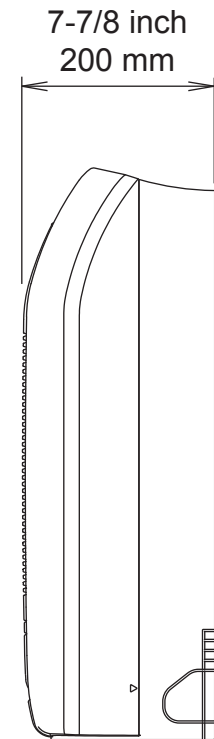
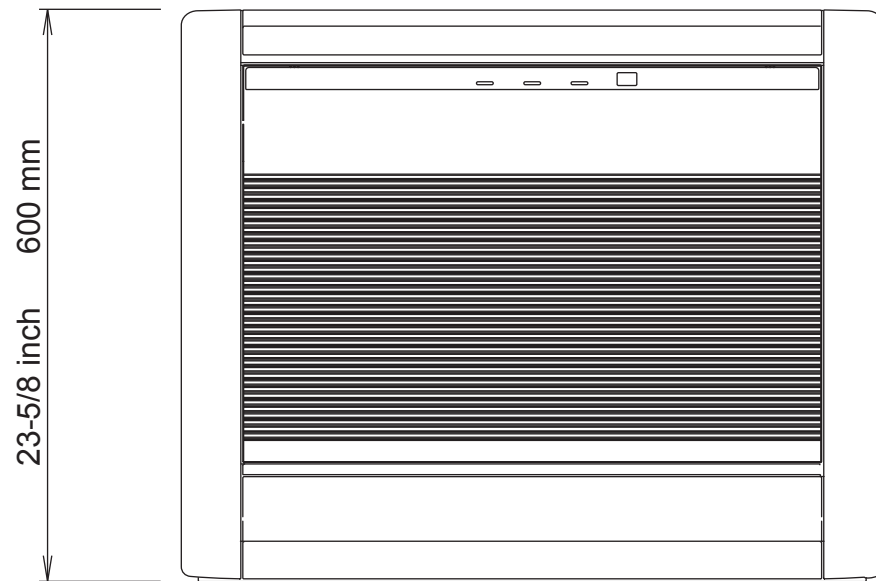
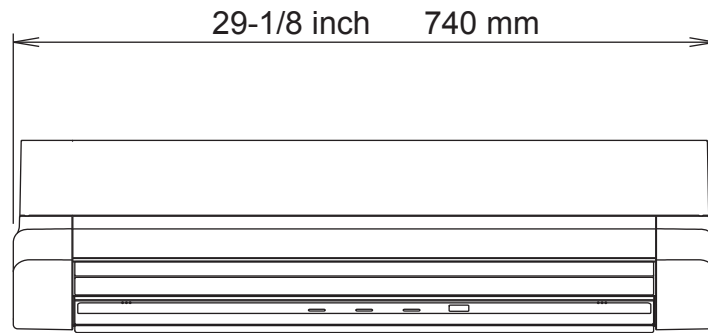
Bottom view



Side view



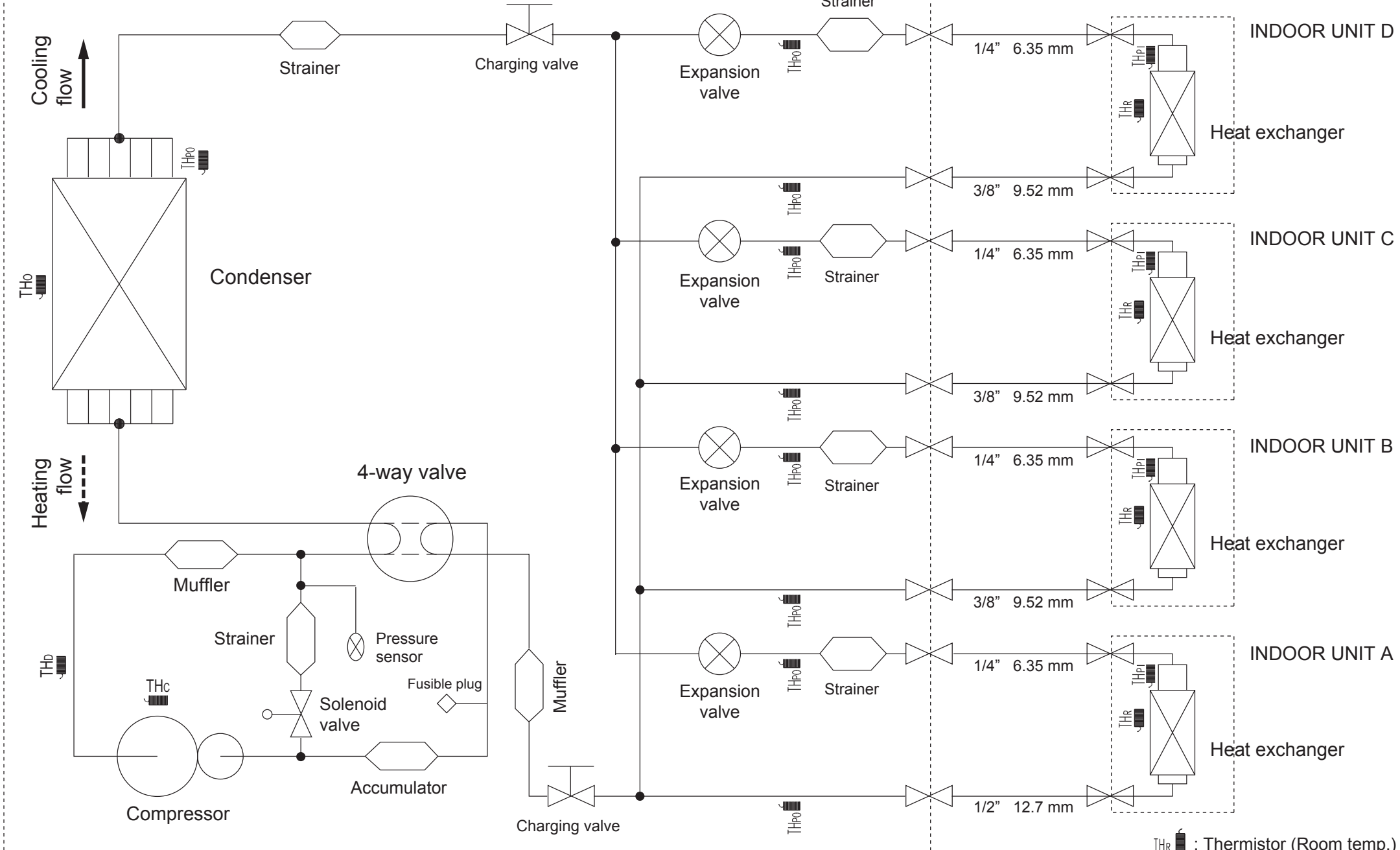
INDOOR UNIT
FLOOR
AGU9RLF
AGU12RLF
AGU15RLF



REFRIGERANT SYSTEM DIAGRAM

OUTDOOR UNIT AOU36RLXFZH

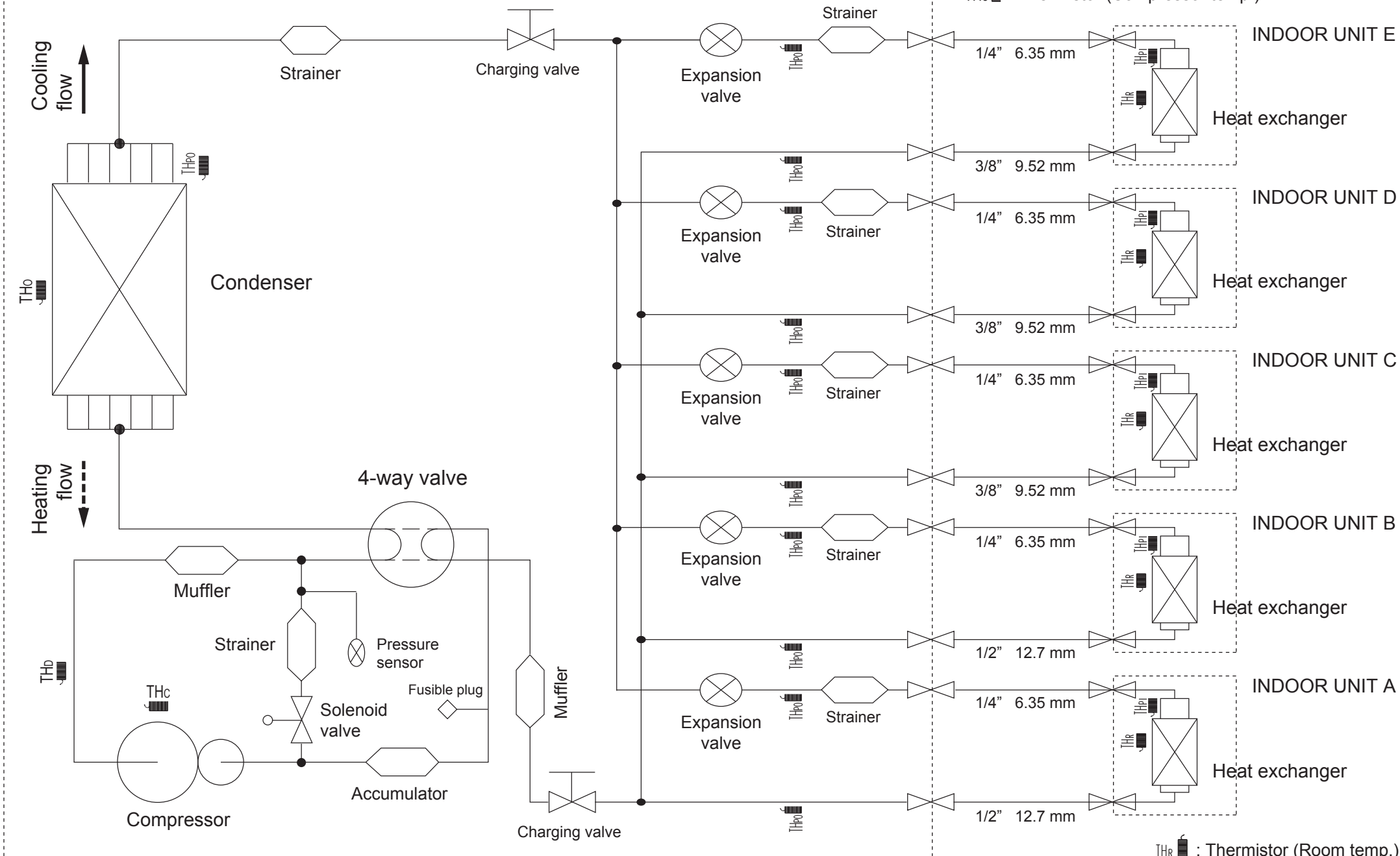
- TH_d : Thermistor (Discharge temp.)
- TH_o : Thermistor (Outdoor temp.)
- TH_{po} : Thermistor (Pipe temp.)
- TH_c : Thermistor (Compressor temp.)



- TH_r : Thermistor (Room temp.)
- TH_{pi} : Thermistor (Pipe temp.)

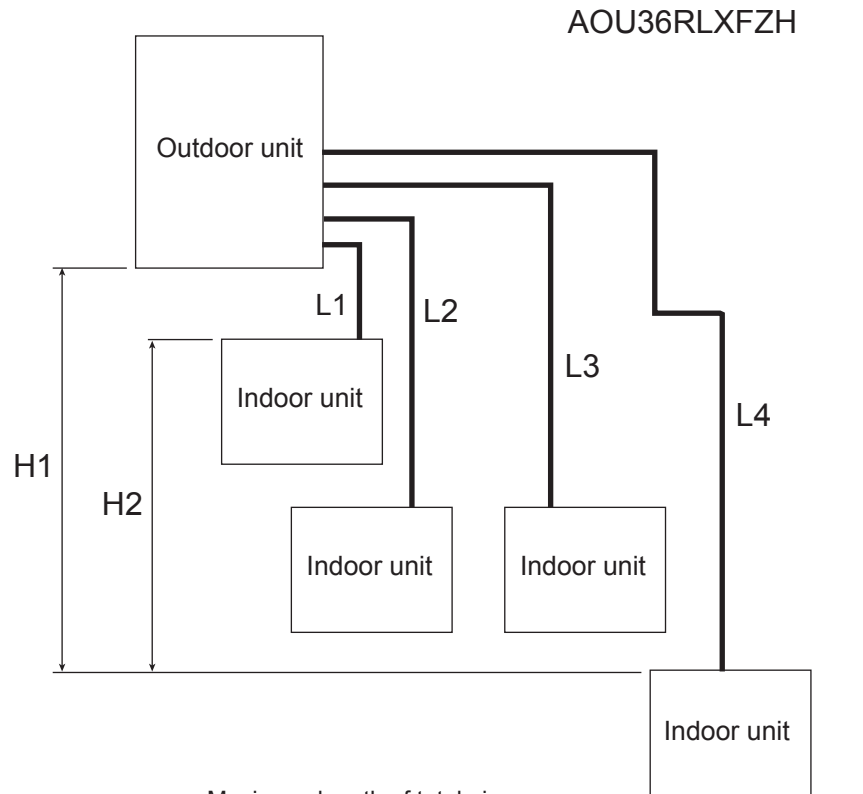
**OUTDOOR UNIT
AOU45RLXFZ**

- THd : Thermistor (Discharge temp.)
- THo : Thermistor (Outdoor temp.)
- THpo : Thermistor (Pipe temp.)
- THc : Thermistor (Compressor temp.)



- THr : Thermistor (Room temp.)
- THpi : Thermistor (Pipe temp.)

LIMITATION OF PIPE CONNECTION



Maximum length of total pipe
 $L1 + L2 + L3 + L4 = 70\text{m}$

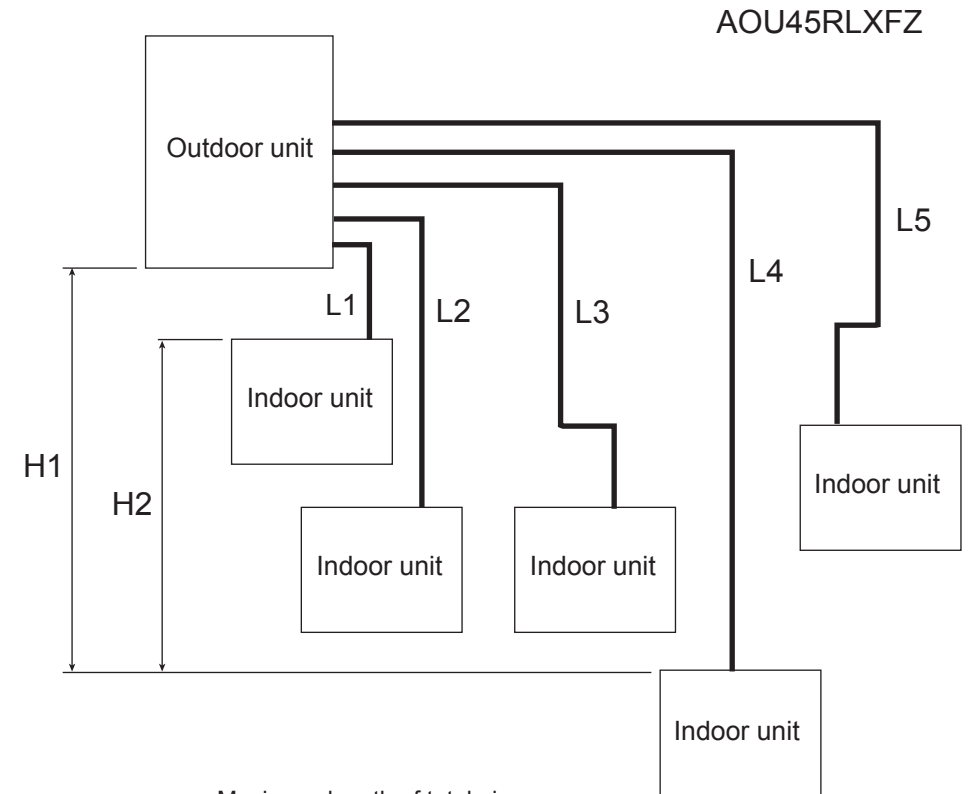
Minimum length of total pipe
 $L1 + L2 = 15\text{m}$

Maximum length between outdoor unit and indoor unit
 $L1 = 25\text{m}$ $L2 = 25\text{m}$ $L3 = 25\text{m}$ $L4 = 25\text{m}$

Minimum length between outdoor unit and indoor unit
 $L1 = 5\text{m}$ $L2 = 5\text{m}$ $L3 = 5\text{m}$ $L4 = 5\text{m}$

Maximum height difference between indoor and outdoor units
 $H1 = 15\text{m}$

Maximum height difference between indoor units
 $H2 = 10\text{m}$



Maximum length of total pipe
 $L1 + L2 + L3 + L4 + L5 = 80\text{m}$

Minimum length of total pipe
 $L1 + L2 = 15\text{m}$

Maximum length between outdoor unit and indoor unit
 $L1 = 25\text{m}$ $L2 = 25\text{m}$ $L3 = 25\text{m}$ $L4 = 25\text{m}$ $L5 = 25\text{m}$

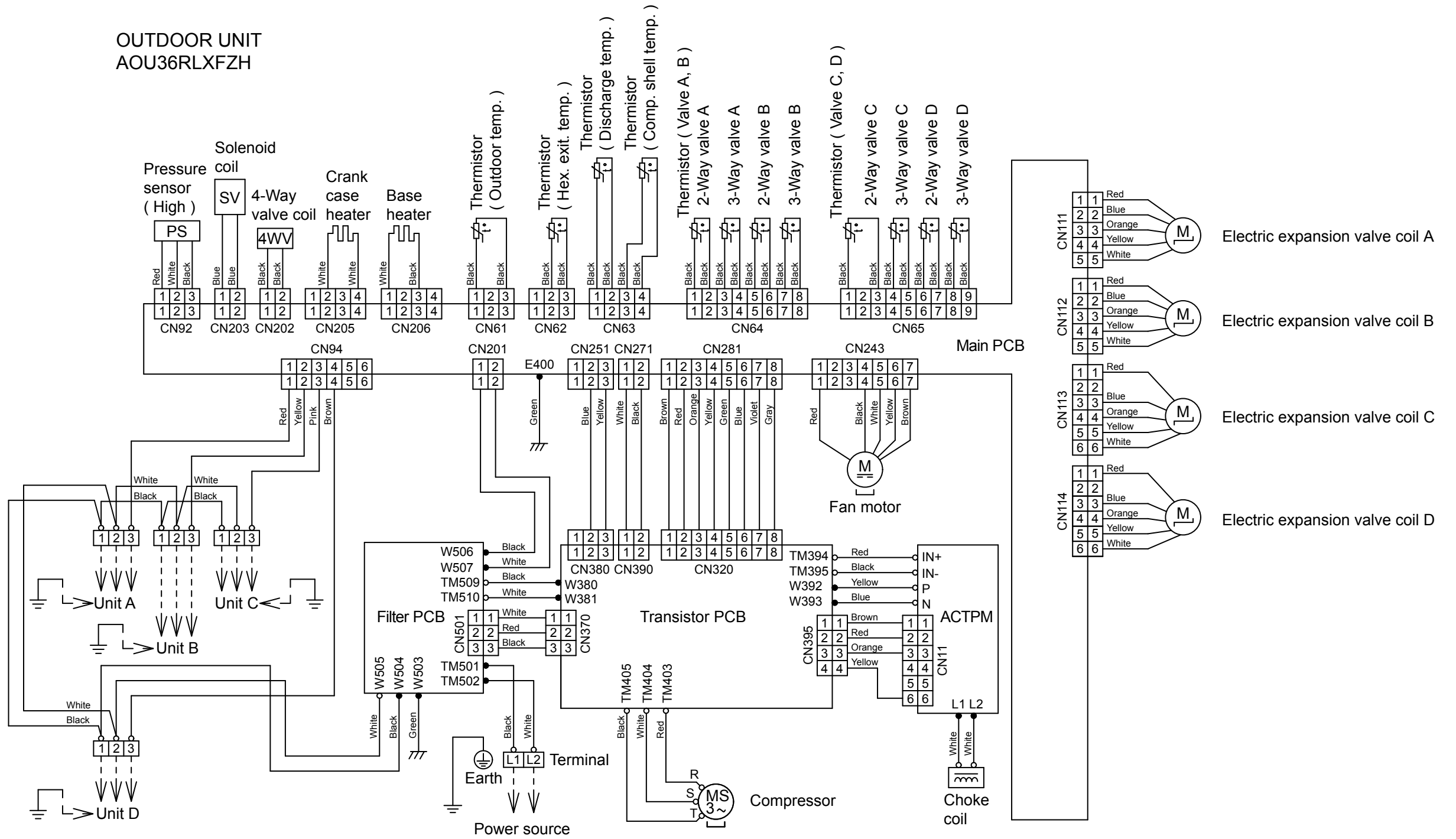
Minimum length between outdoor unit and indoor unit
 $L1 = 5\text{m}$ $L2 = 5\text{m}$ $L3 = 5\text{m}$ $L4 = 5\text{m}$ $L5 = 5\text{m}$

Maximum height difference between indoor and outdoor units
 $H1 = 15\text{m}$

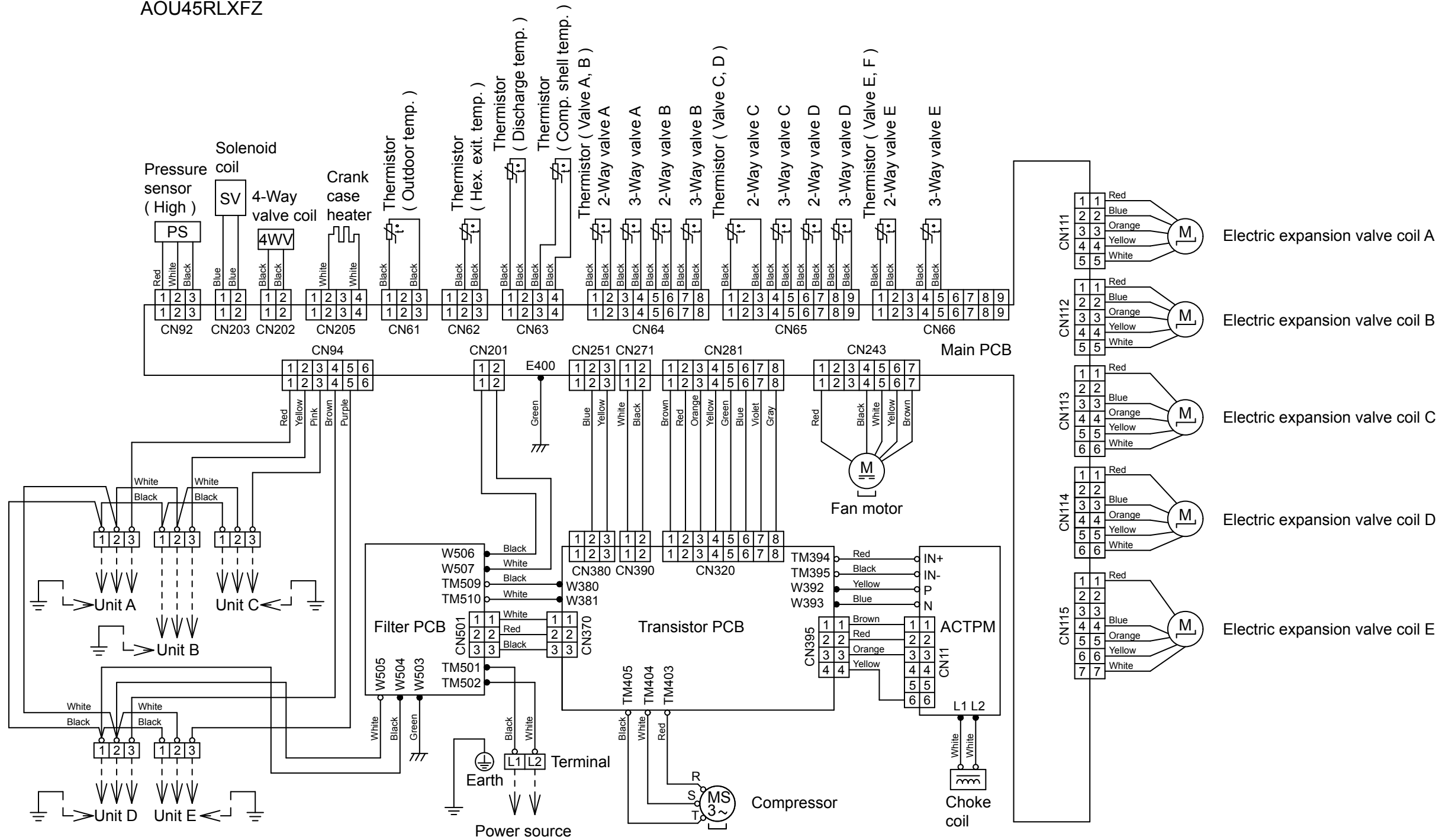
Maximum height difference between indoor units
 $H2 = 10\text{m}$

CIRCUIT DIAGRAM

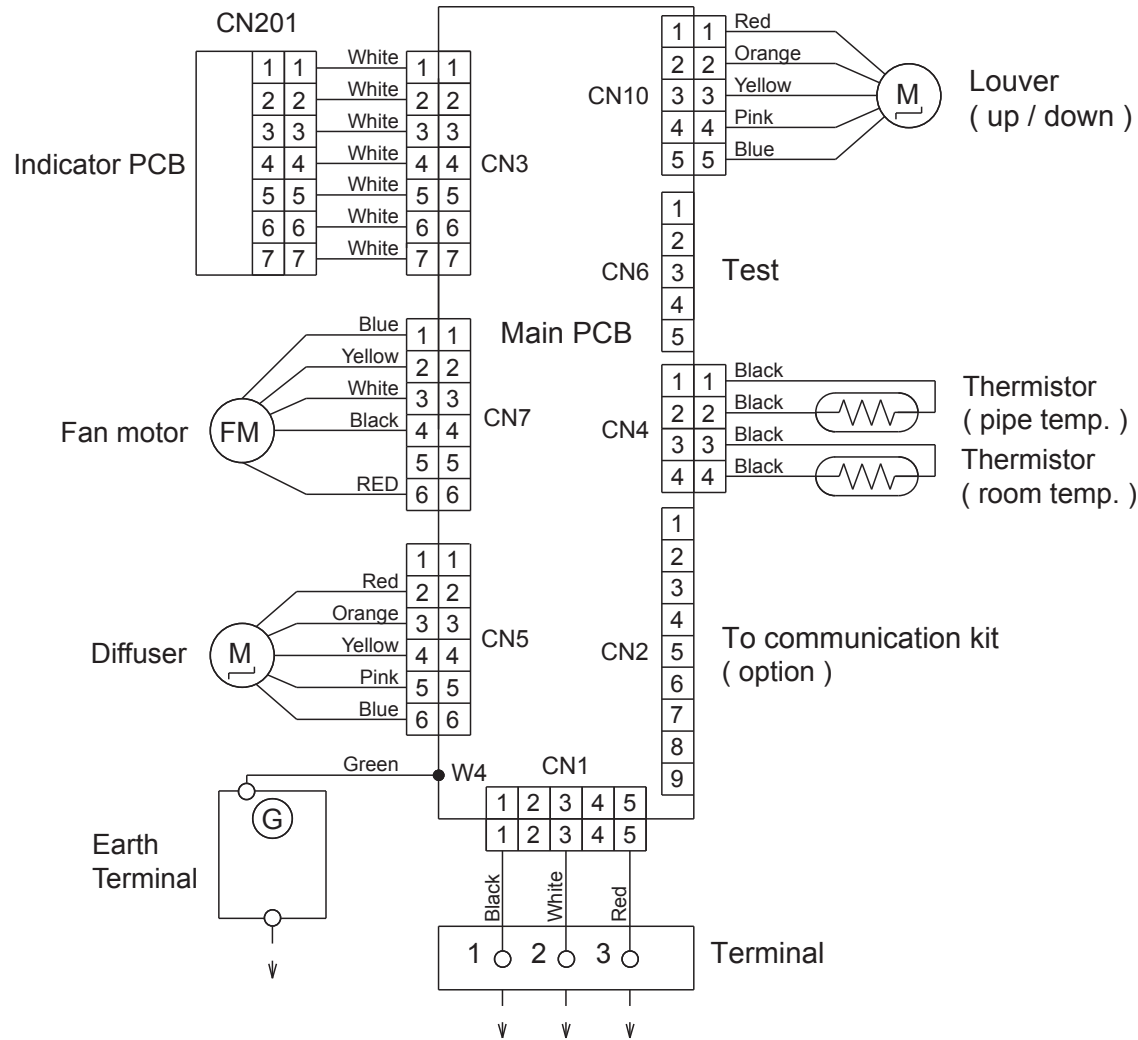
OUTDOOR UNIT
AOU36RLXFZH



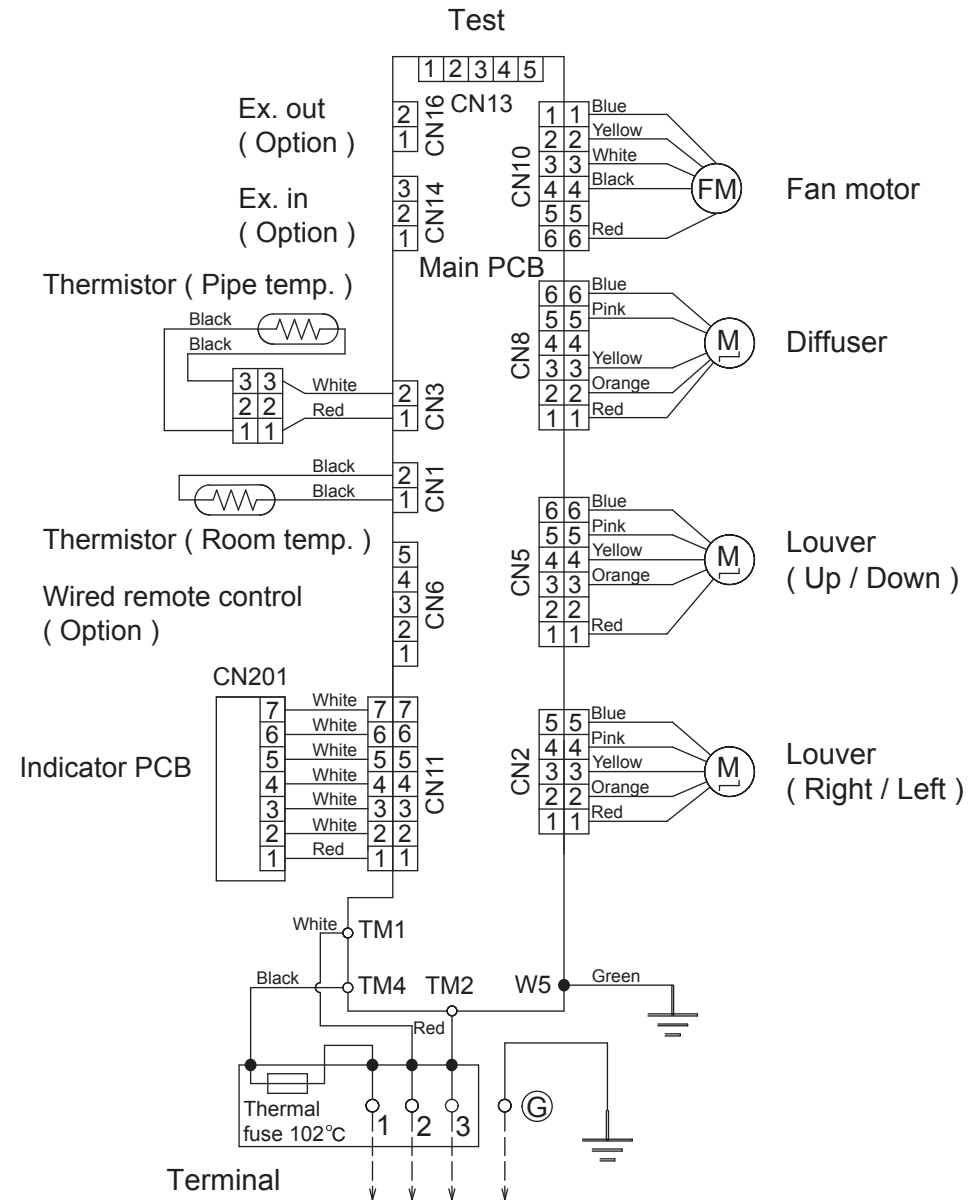
OUTDOOR UNIT
AOU45RLXFZ



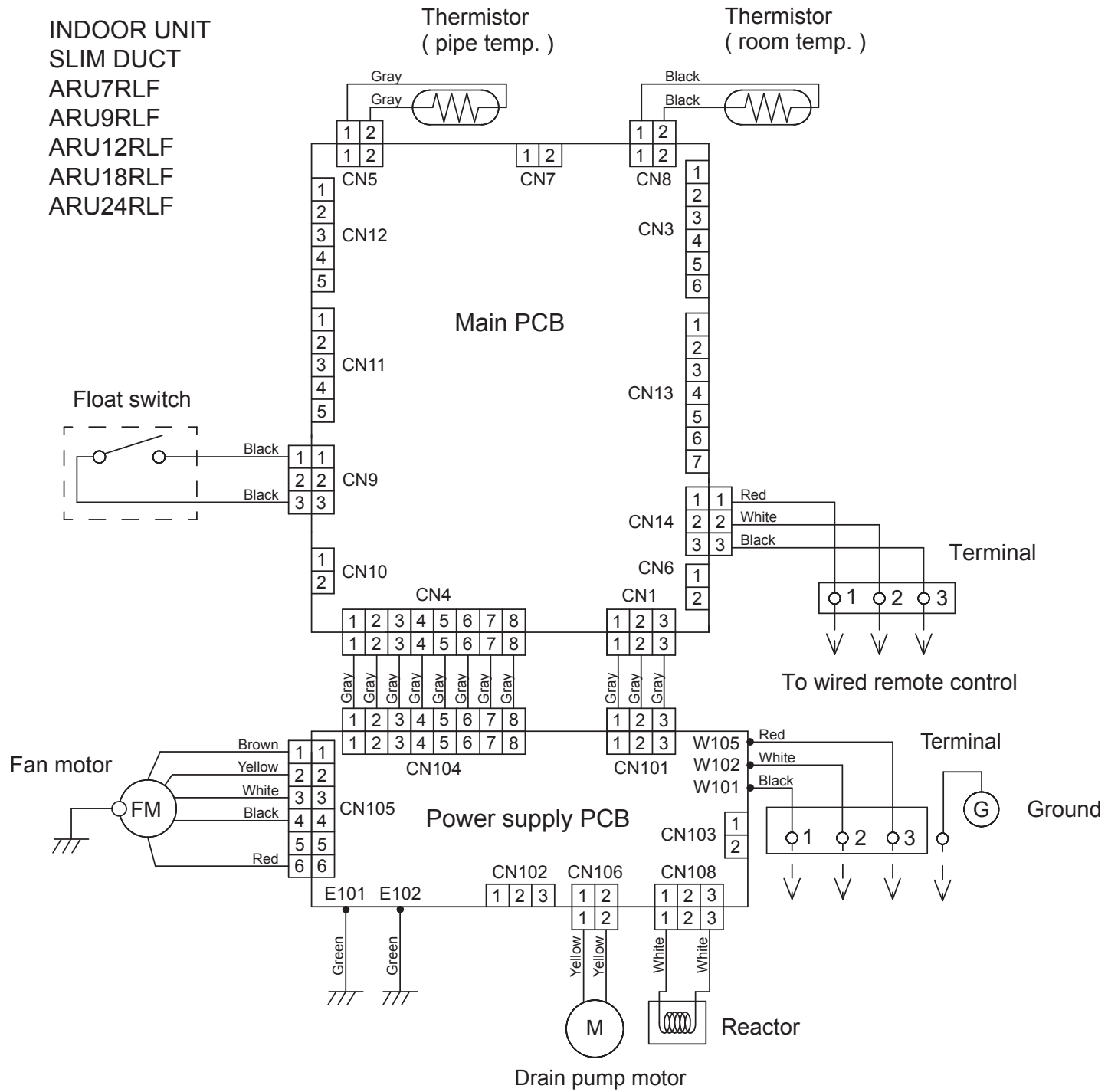
INDOOR UNIT
 COMPACT WALL MOUNTED
 ASU7RLF1
 ASU9RLF1
 ASU12RLF1
 ASU15RLF1



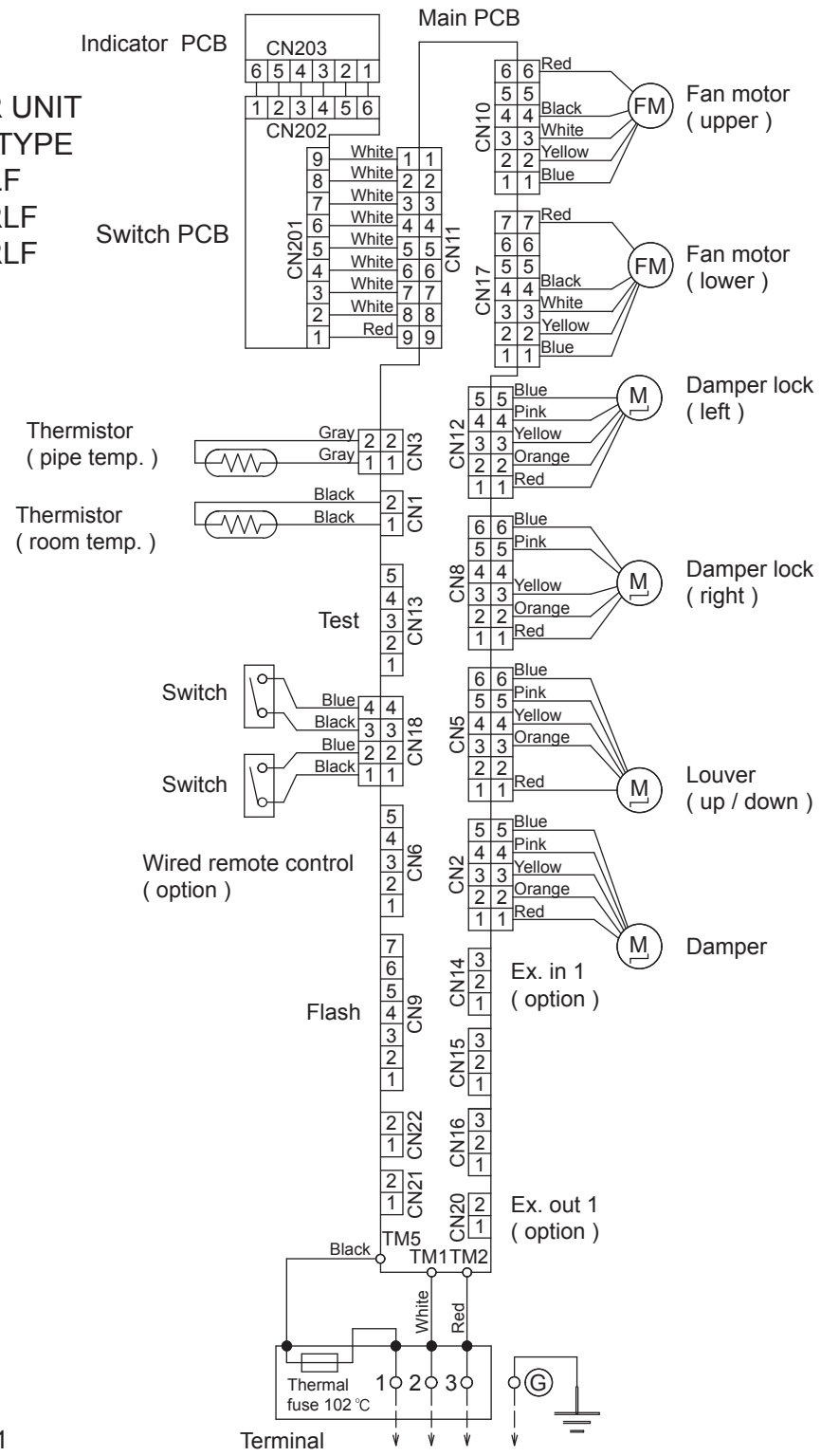
INDOOR UNIT
 WALL MOUNTED
 ASU18RLF
 ASU24RLF



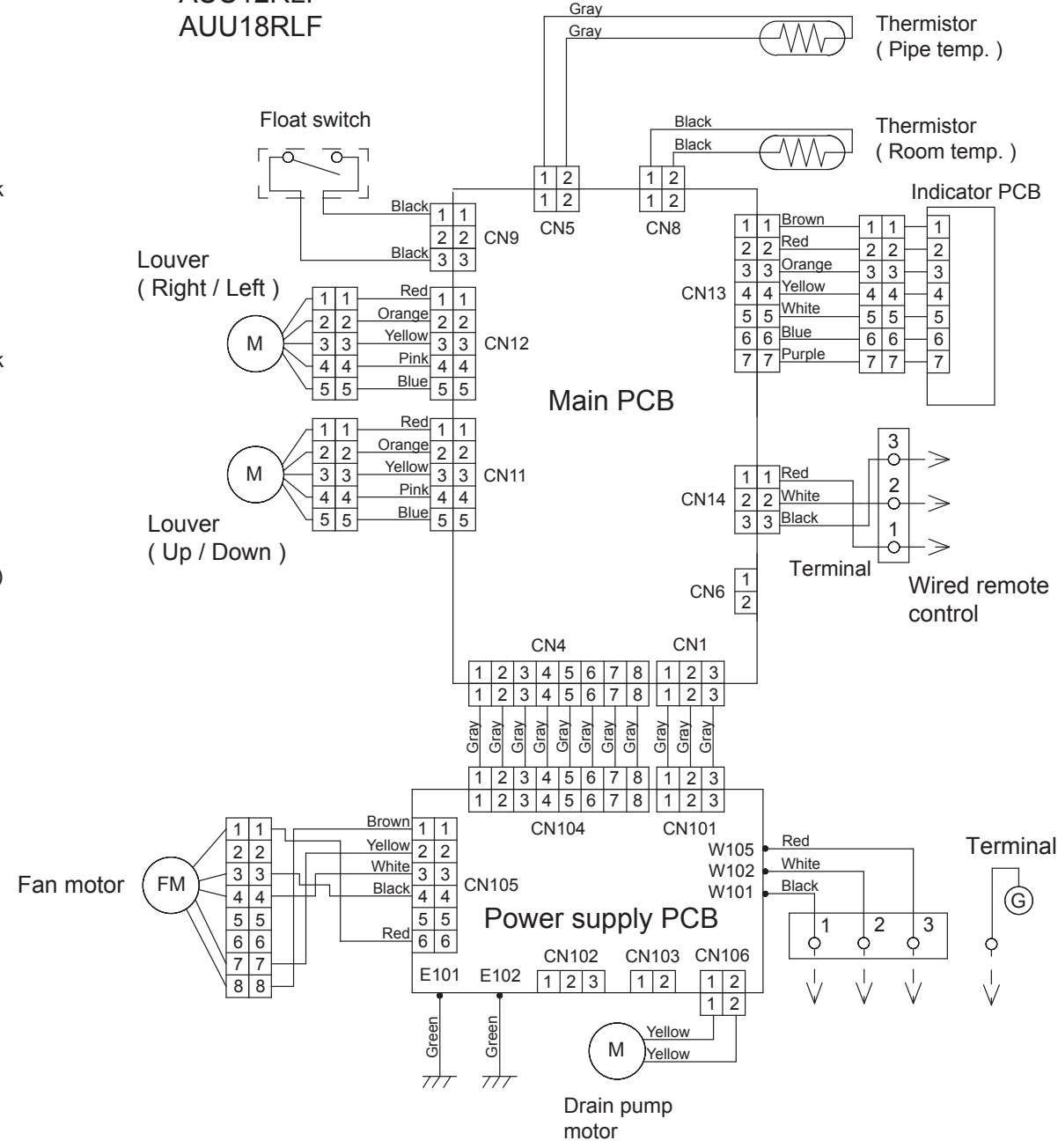
INDOOR UNIT
SLIM DUCT
ARU7RLF
ARU9RLF
ARU12RLF
ARU18RLF
ARU24RLF



**INDOOR UNIT
FLOOR TYPE
AGU9RLF
AGU12RLF
AGU15RLF**



**INDOOR UNIT
COMPACT CASSETTE
AUU7RLF
AUU9RLF
AUU12RLF
AUU18RLF**



PCB CIRCUIT DIAGRAM

OUTDOOR UNIT
AOU36RLXFZH

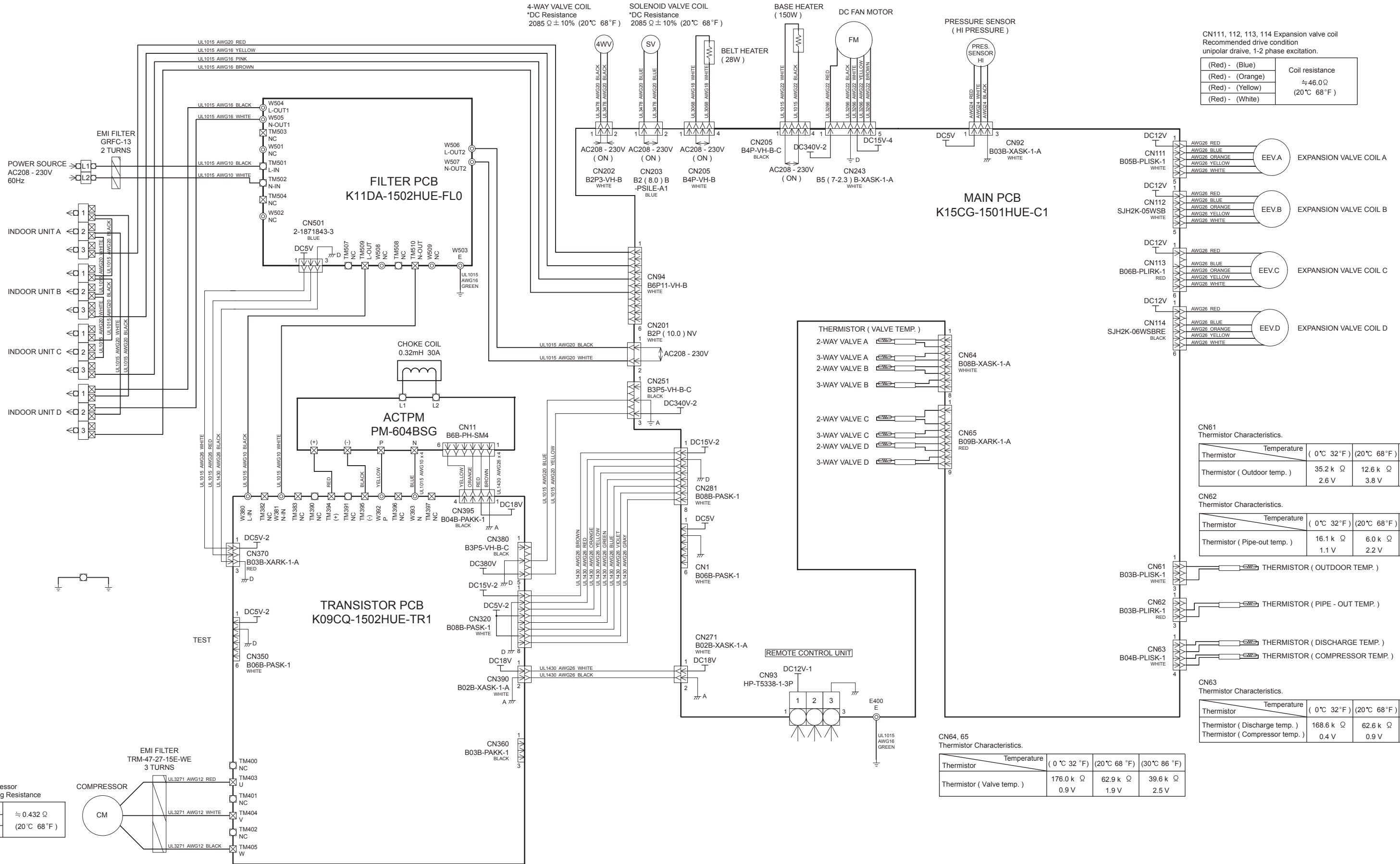
INVERTER ASSEMBLY EZ-0150SHUE

CN243 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	PG	Revolution pulse output	Brown

4-WAY VALVE COIL
*DC Resistance
2085 Ω ± 10% (20°C 68°F)

SOLENOID VALVE COIL
*DC Resistance
2085 Ω ± 10% (20°C 68°F)



CN111, 112, 113, 114 Expansion valve coil
Recommended drive condition
unipolar drive, 1-2 phase excitation.

Lead wire color	Coil resistance
(Red) - (Blue)	≈ 46.0 Ω (20°C 68°F)
(Red) - (Orange)	
(Red) - (Yellow)	
(Red) - (White)	

CN61 Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Outdoor temp.)		35.2 k Ω	12.6 k Ω	8.0 k Ω
		2.6 V	3.8 V	4.1 V

CN62 Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Pipe-out temp.)		16.1 k Ω	6.0 k Ω	3.8 k Ω
		1.1 V	2.2 V	2.8 V

CN63 Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Discharge temp.)		168.6 k Ω	62.6 k Ω	40.0 k Ω
Thermistor (Compressor temp.)		0.4 V	0.9 V	1.2 V

CN64, 65 Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Valve temp.)		176.0 k Ω	62.9 k Ω	39.6 k Ω
		0.9 V	1.9 V	2.5 V

Compressor Winding Resistance

U-V	≈ 0.432 Ω (20°C 68°F)
V-W	
U-W	

OUTDOOR UNIT AOU45RLXFZ

INVERTER ASSEMBLY EZ-0150RHE

4-WAY VALVE COIL
*DC Resistance
2085 Ω ± 10% (20°C 68°F)

SOLENOID VALVE COIL
*DC Resistance
2085 Ω ± 10% (20°C 68°F)

CN243 DC Fan motor

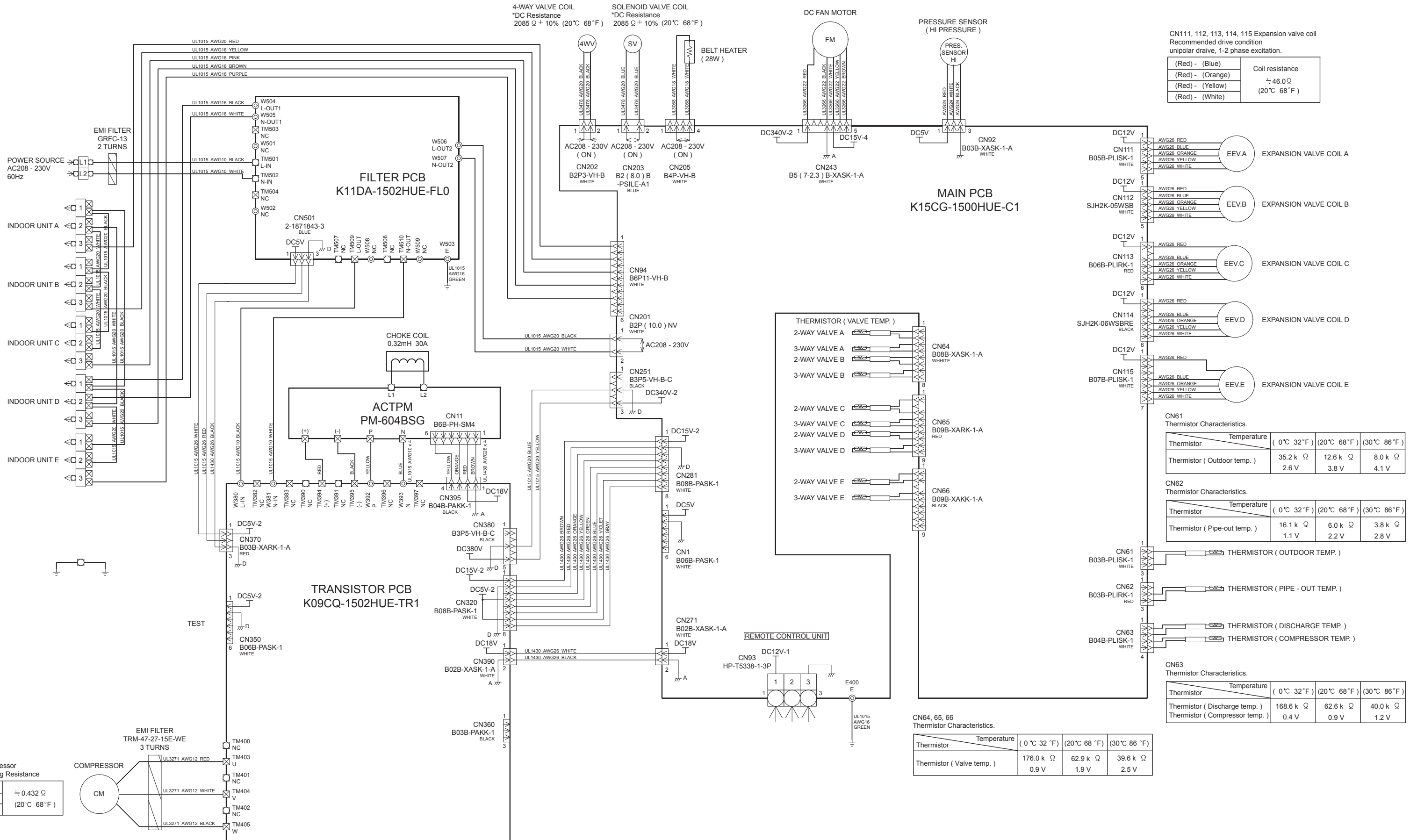
Pin No.	Terminal code	Function of terminal	Lead wire color
1	Vm	Motor power voltage input	Red
2	---	---	---
3	---	---	---
4	GND	GND	Black
5	Vcc	Control power voltage input	White
6	Vsp	Speed control voltage input	Yellow
7	PG	Revolution pulse output	Brown

DC FAN MOTOR

PRESSURE SENSOR
(HI PRESSURE)

CN111, 112, 113, 114, 115 Expansion valve coil
Recommended drive condition
unipolar drive, 1-2 phase excitation.

(Red) - (Blue)	Coil resistance ≈ 46.0 Ω (20°C 68°F)
(Red) - (Orange)	
(Red) - (Yellow)	
(Red) - (White)	



Compressor Winding Resistance

U-V	≈ 0.432 Ω
V-W	(20°C 68°F)
U-W	

CN61 Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Outdoor temp.)		35.2 k Ω	12.6 k Ω	8.0 k Ω
		2.6 V	3.8 V	4.1 V

CN62 Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Pipe-out temp.)		16.1 k Ω	6.0 k Ω	3.8 k Ω
		1.1 V	2.2 V	2.8 V

CN63 Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Discharge temp.)		168.6 k Ω	62.6 k Ω	40.0 k Ω
Thermistor (Compressor temp.)		0.4 V	0.9 V	1.2 V

CN64, 65, 66 Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Valve temp.)		176.0 k Ω	62.9 k Ω	39.6 k Ω
		0.9 V	1.9 V	2.5 V

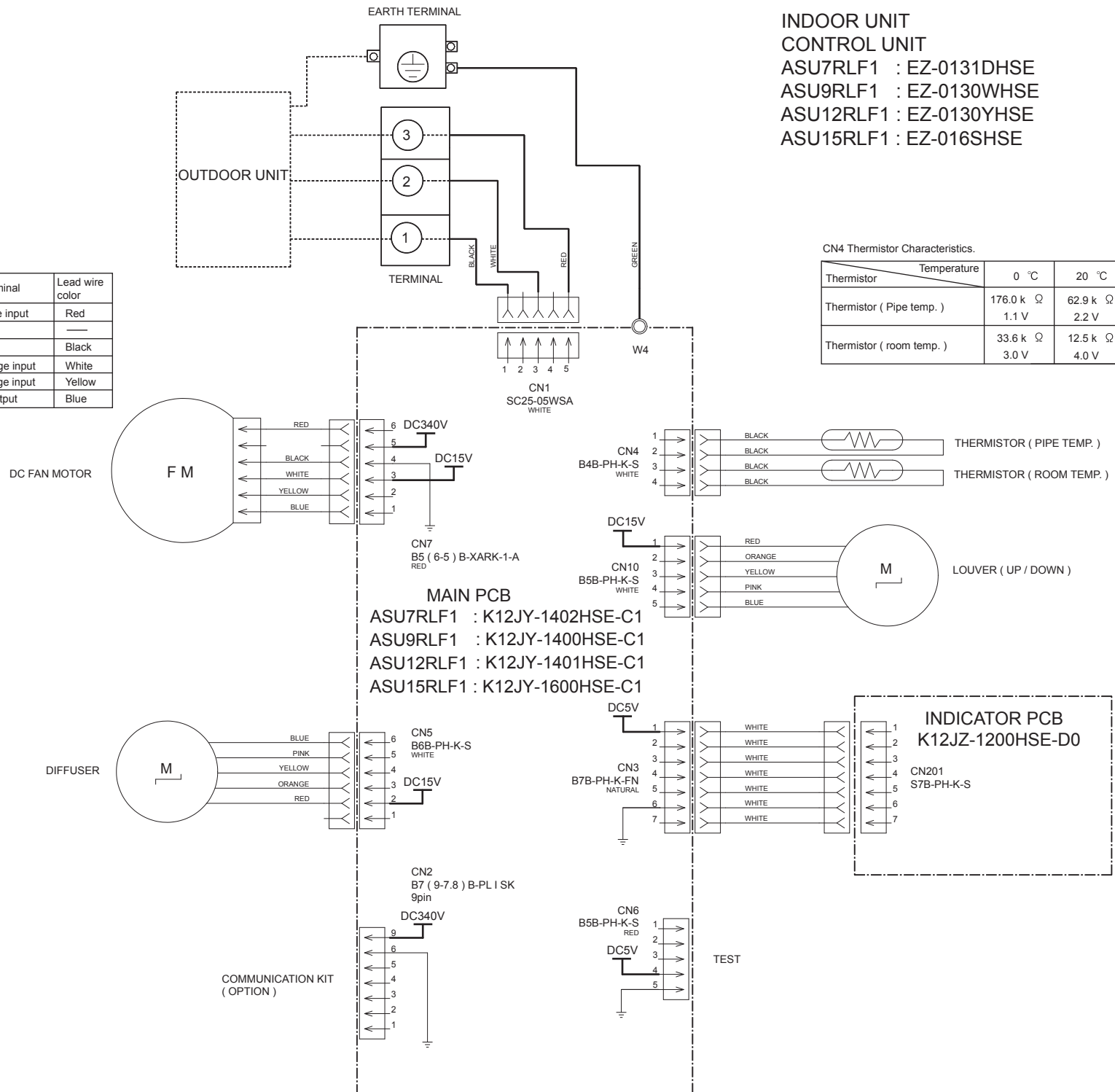
INDOOR UNIT
CONTROL UNIT
ASU7RLF1 : EZ-0131DHSE
ASU9RLF1 : EZ-0130WHSE
ASU12RLF1 : EZ-0130YHSE
ASU15RLF1 : EZ-016SHSE

CN7 DC Fan motor

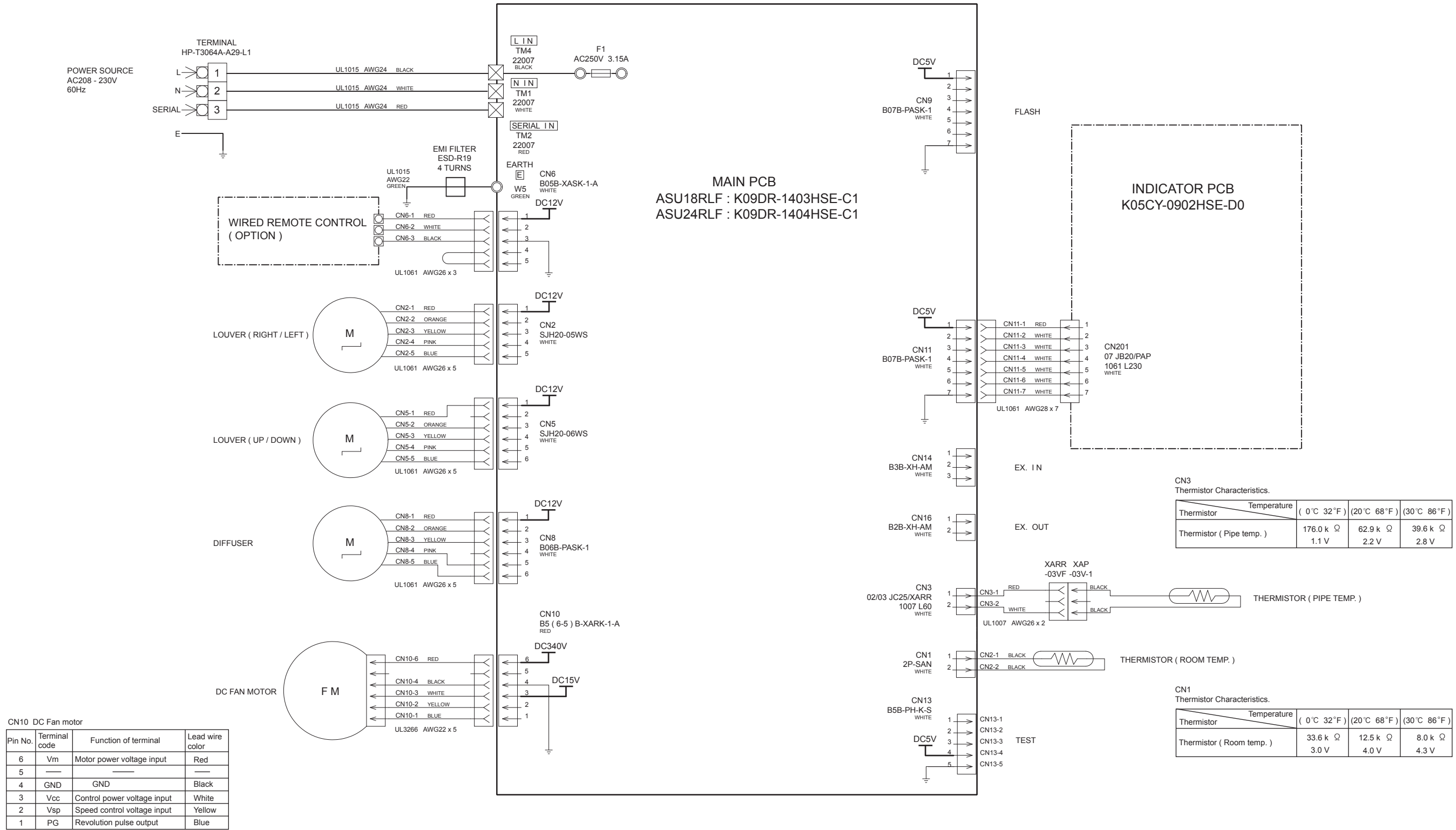
Pin No.	Terminal code	Function of terminal	Lead wire color
6	Vm	Motor power voltage input	Red
5	—	—	—
4	GND	GND	Black
3	Vcc	Control power voltage input	White
2	Vsp	Speed control voltage input	Yellow
1	PG	Revolution pulse output	Blue

CN4 Thermistor Characteristics.

Thermistor	Temperature		
	0 °C	20 °C	30 °C
Thermistor (Pipe temp.)	176.0 k Ω 1.1 V	62.9 k Ω 2.2 V	39.6 k Ω 2.8 V
Thermistor (room temp.)	33.6 k Ω 3.0 V	12.5 k Ω 4.0 V	8.0 k Ω 4.3 V



CONTROL UNIT
 ASU18RLF : EZ-0090DHSE
 ASU24RLF : EZ-0104HSE



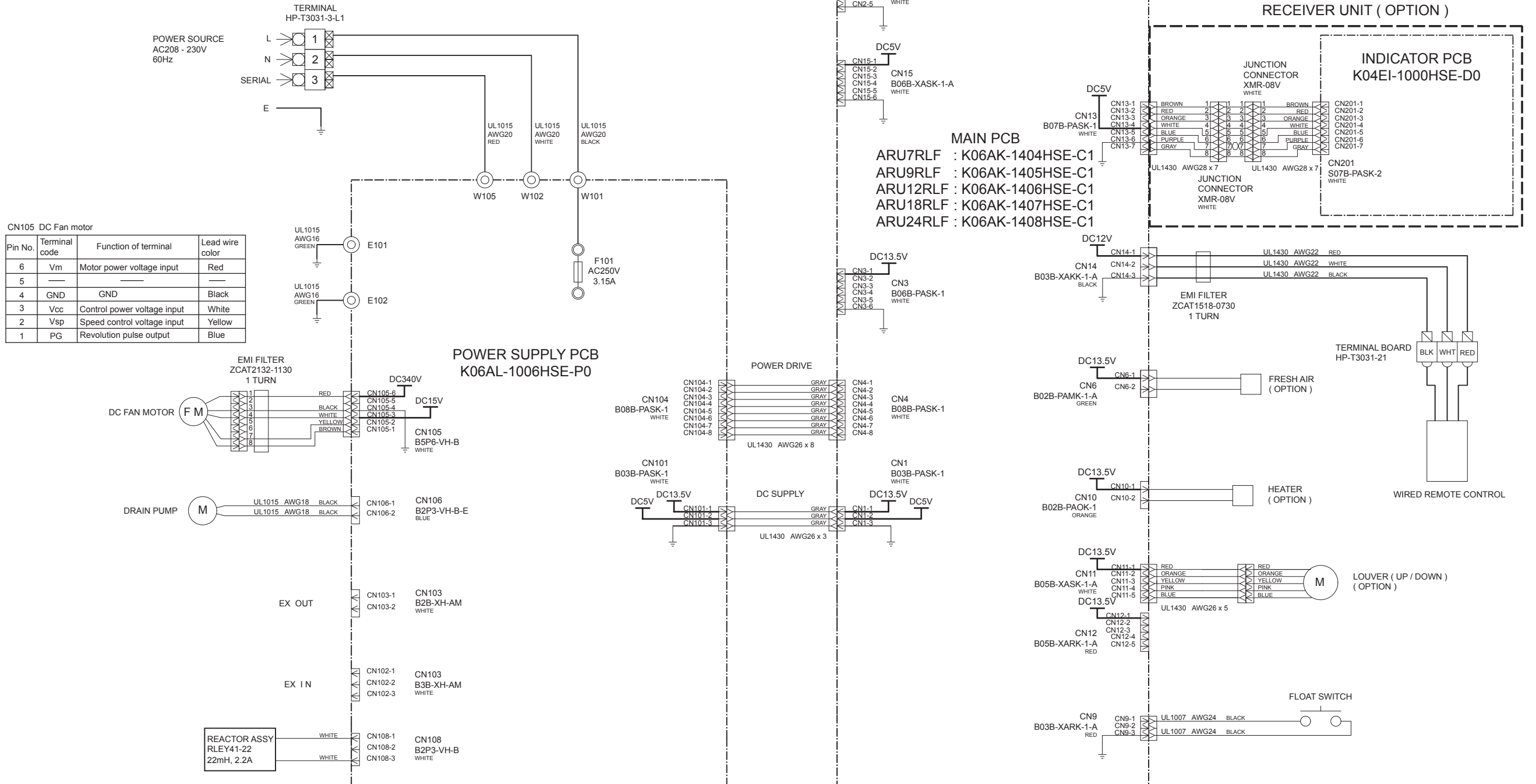
CONTROL UNIT
 ARU7RLF : EZ-0131BHSE
 ARU9RLF : EZ-01123HSE
 ARU12RLF : EZ-01124HSE
 ARU18RLF : EZ-01125HSE
 ARU24RLF : EZ-01126HSE

CN8
 Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Room temp.)		33.6 k Ω 3.0 V	12.5 k Ω 4.0 V	8.0 k Ω 4.3 V

CN5
 Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Pipe temp.)		168.6 k Ω 1.1 V	62.5 k Ω 2.2 V	40.0 k Ω 2.8 V



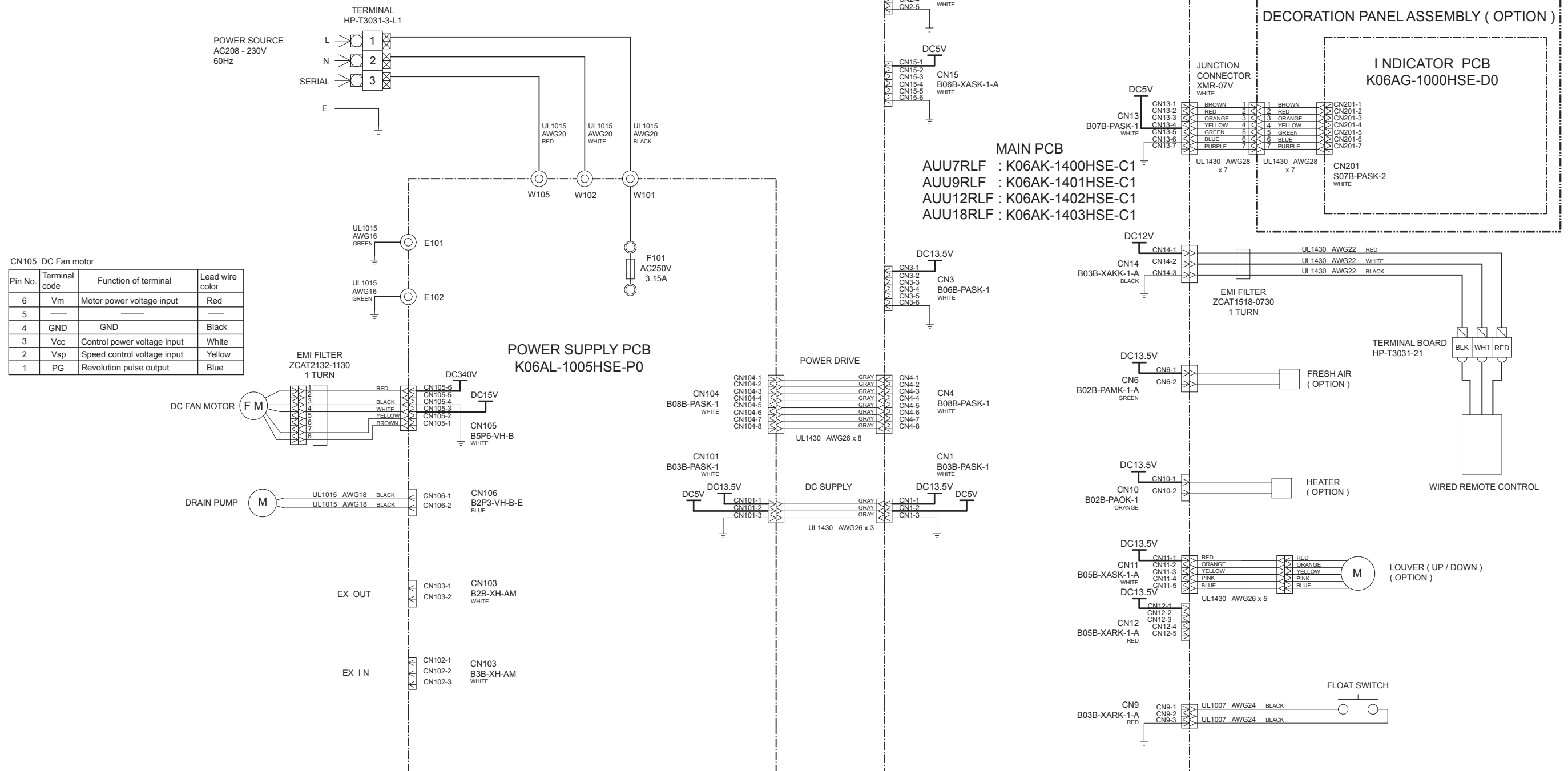
CN8
Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Room temp.)		33.6 k Ω	12.5 k Ω	8.0 k Ω
		3.0 V	4.0 V	4.3 V

CN5
Thermistor Characteristics.

Thermistor	Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Pipe temp.)		168.6 k Ω	62.5 k Ω	40.0 k Ω
		1.1 V	2.2 V	2.8 V

CONTROL UNIT
 AUU7RLF : EZ-0131CHSE
 AUU9RLF : EZ-0100HSE
 AUU12RLF : EZ-0105HSE
 AUU18RLF : EZ-0106HSE



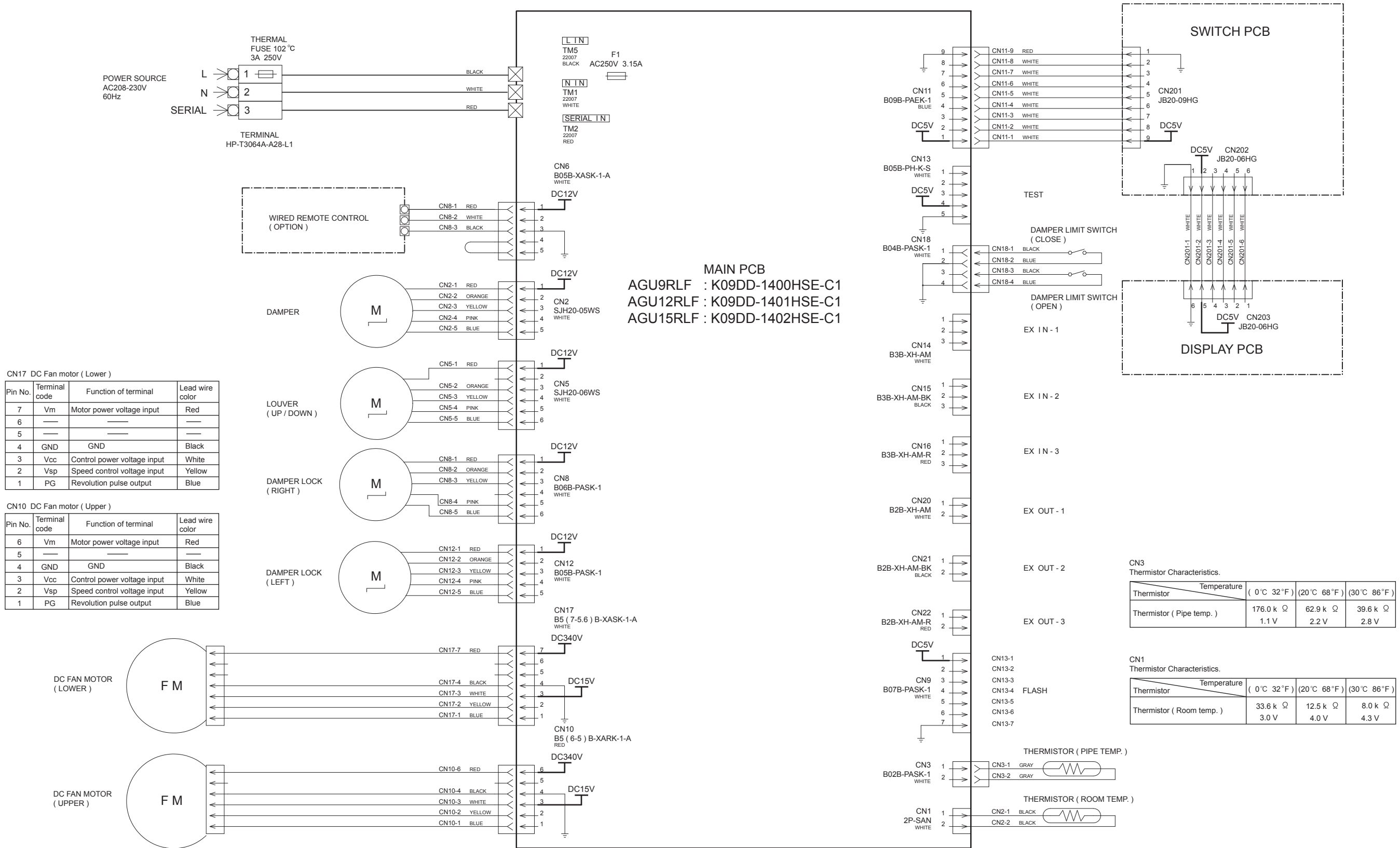
CN105 DC Fan motor

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

CONTROL UNIT

AGU9RLF : EZ-01302HSE
 AGU12RLF : EZ-01303HSE
 AGU15RLF : EZ-01304HSE

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



CN17 DC Fan motor (Lower)

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

CN10 DC Fan motor (Upper)

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

CN3 Thermistor Characteristics.

Thermistor	Temperature (0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Pipe temp.)	176.0 k Ω	62.9 k Ω	39.6 k Ω
	1.1 V	2.2 V	2.8 V

CN1 Thermistor Characteristics.

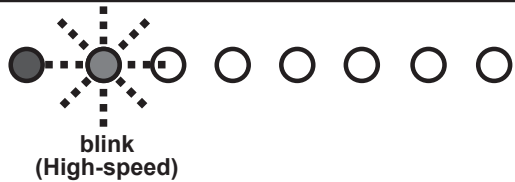
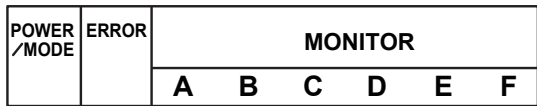
Thermistor	Temperature (0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Room temp.)	33.6 k Ω	12.5 k Ω	8.0 k Ω
	3.0 V	4.0 V	4.3 V

ERROR DETECTION

OUTDOOR UNIT
 AOU36RLXFZH
 AOU45RLXFZ

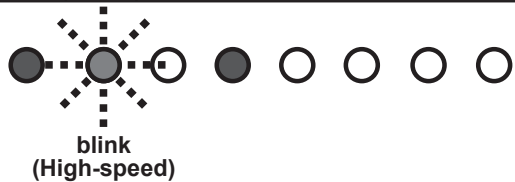
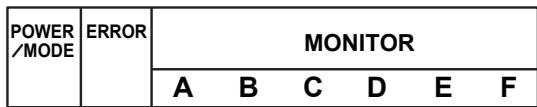
If an error occurs, the LED will light up to display the error location and the error code.

In the event of an error, the error LED flashes quickly.



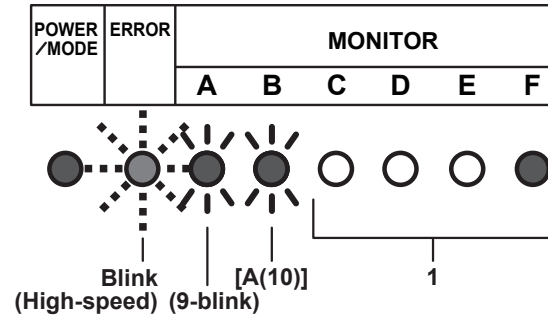
LEDs A to F of MONITOR light up and display the error location. In the case of an overall error, LEDs A to F of MONITOR do not light up.

Example) Coil error in indoor unit B



While the error is occurring, please briefly press SW1. The error code is displayed.

Example) Coil error (Error cord = 9A.1)



Display mode

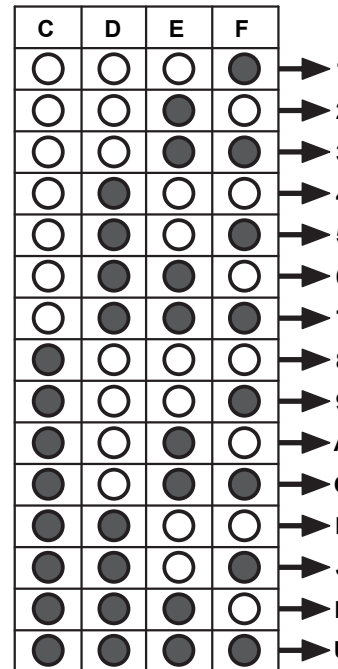
LED on: ●

LED off: ○

Blink: 
 (0.5s Light on / 0.5s Light off)

Number of blinking: ()

- For MONITOR (A and B)
- A: 10-Blink
 - C: 11-Blink
 - F: 12-Blink
 - J: 13-Blink
 - P: 14-Blink
 - U: 15-Blink



Error code	Error type
11.3	Serial communication error
11.4	Serial communication error during operation
16.5	Communication error between controller and outdoor unit
22.1	Indoor unit capacity error
5U.1	Indoor unit error
62.1	PCB model information error
62.3	EEPROM access error
62.8	EEPROM data corruption error
63.1	Inverter error
65.3	IPM error (Trip terminal L error)
71.1	Discharge temp. sensor error
72.1	Compressor temp. sensor error
73.2	Heat ex. middle temp. sensor error
73.3	Heat ex. liquid temp. sensor error
74.1	Outdoor temp. sensor error
75.1	Suction gas temp. sensor error
76.1	Valve sensor error
76.2	
77.1	Heat sink temp. sensor error
84.1	Current sensor 1 error (stoppage permanently)
86.1	Discharge pressure sensor error
94.1	Trip detection
95.1	Compressor motor control error (stoppage permanently)
97.3	Fan motor 1 error (Duty error)
98.3	Fan motor 2 error (Duty error)
99.1	4-way valve error
9A.1	Coil 1 (expansion valve 1) error
A1.1	Discharge temperature 1 error (stoppage permanently)
A3.1	Compressor 1 temperature error

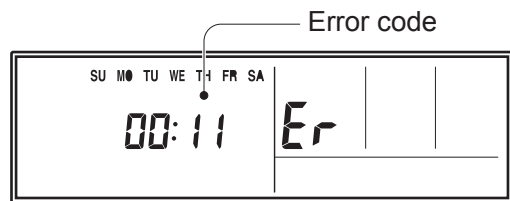
INDOOR UNIT and WIRED REMOTE CONTROL

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

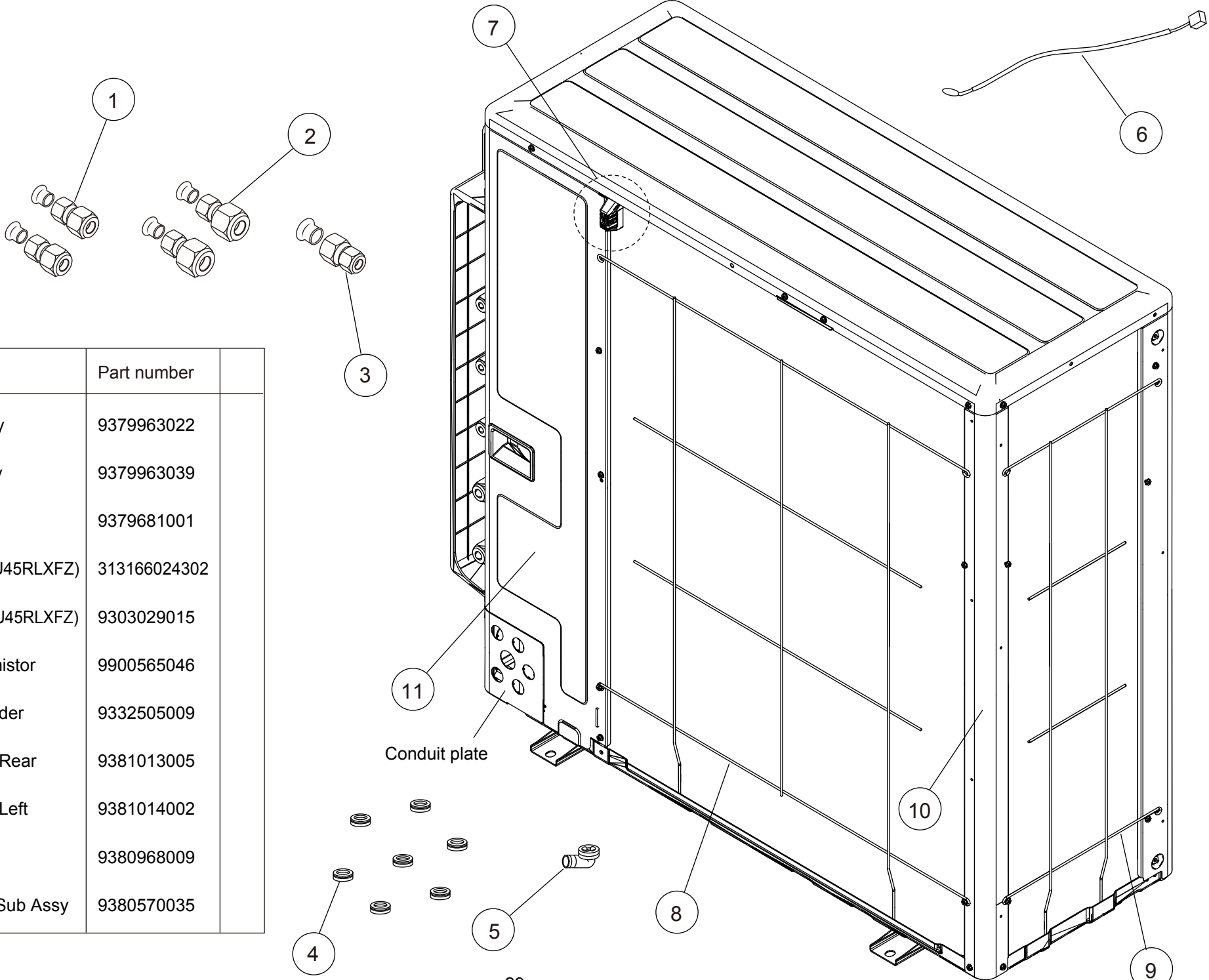
() : Number of flashing

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)	◇	5U	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]

PARTS

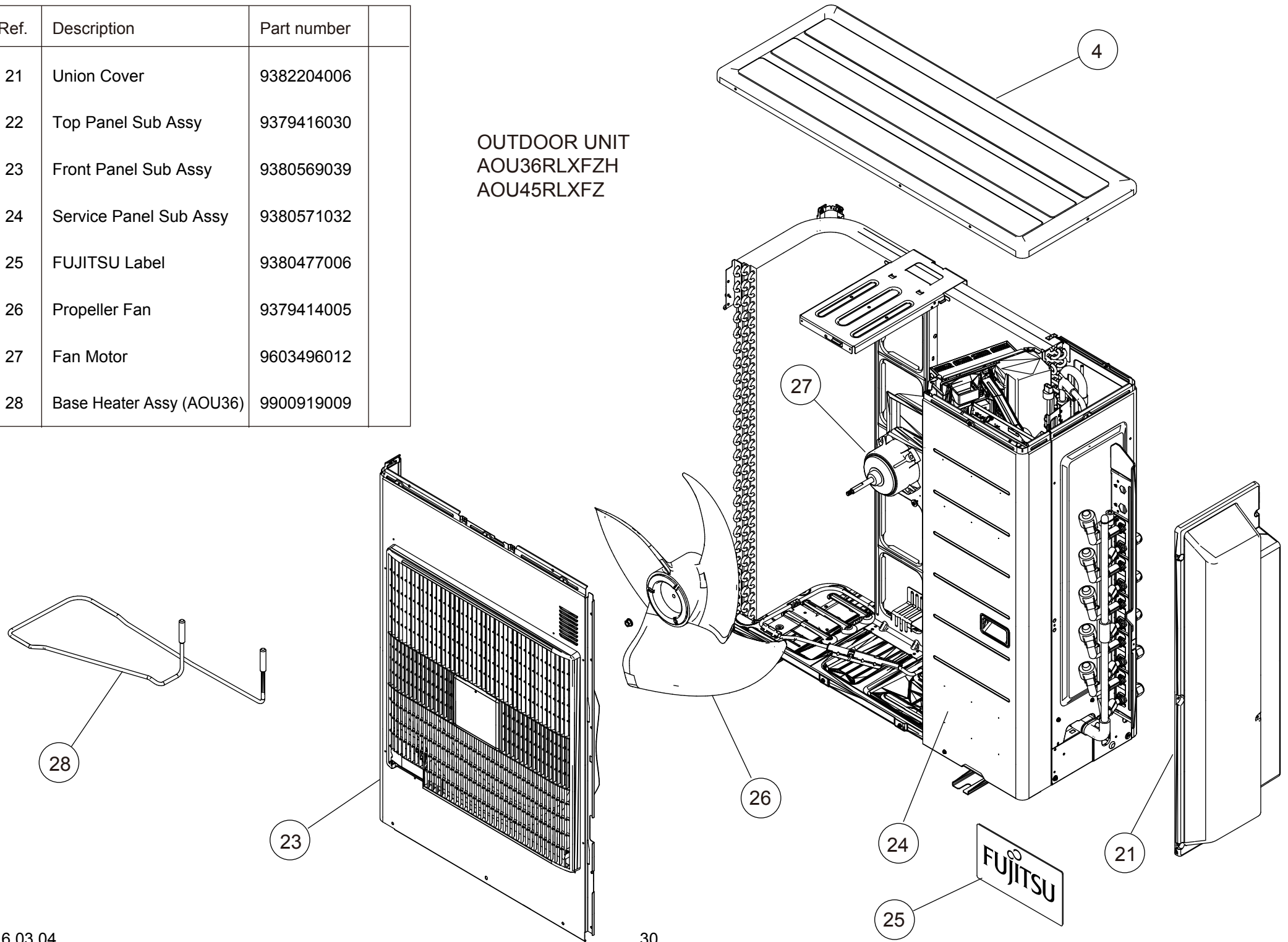
OUTDOOR UNIT
 AOU36RLXFZH
 AOU45RLXFZ



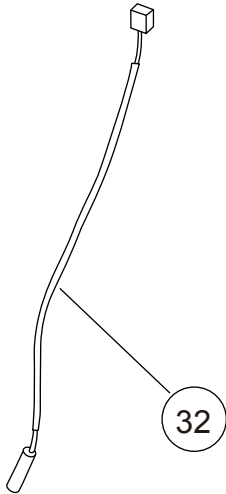
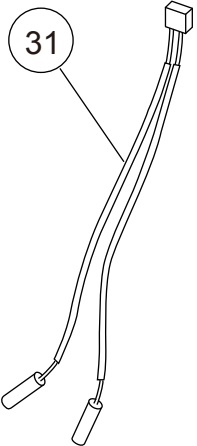
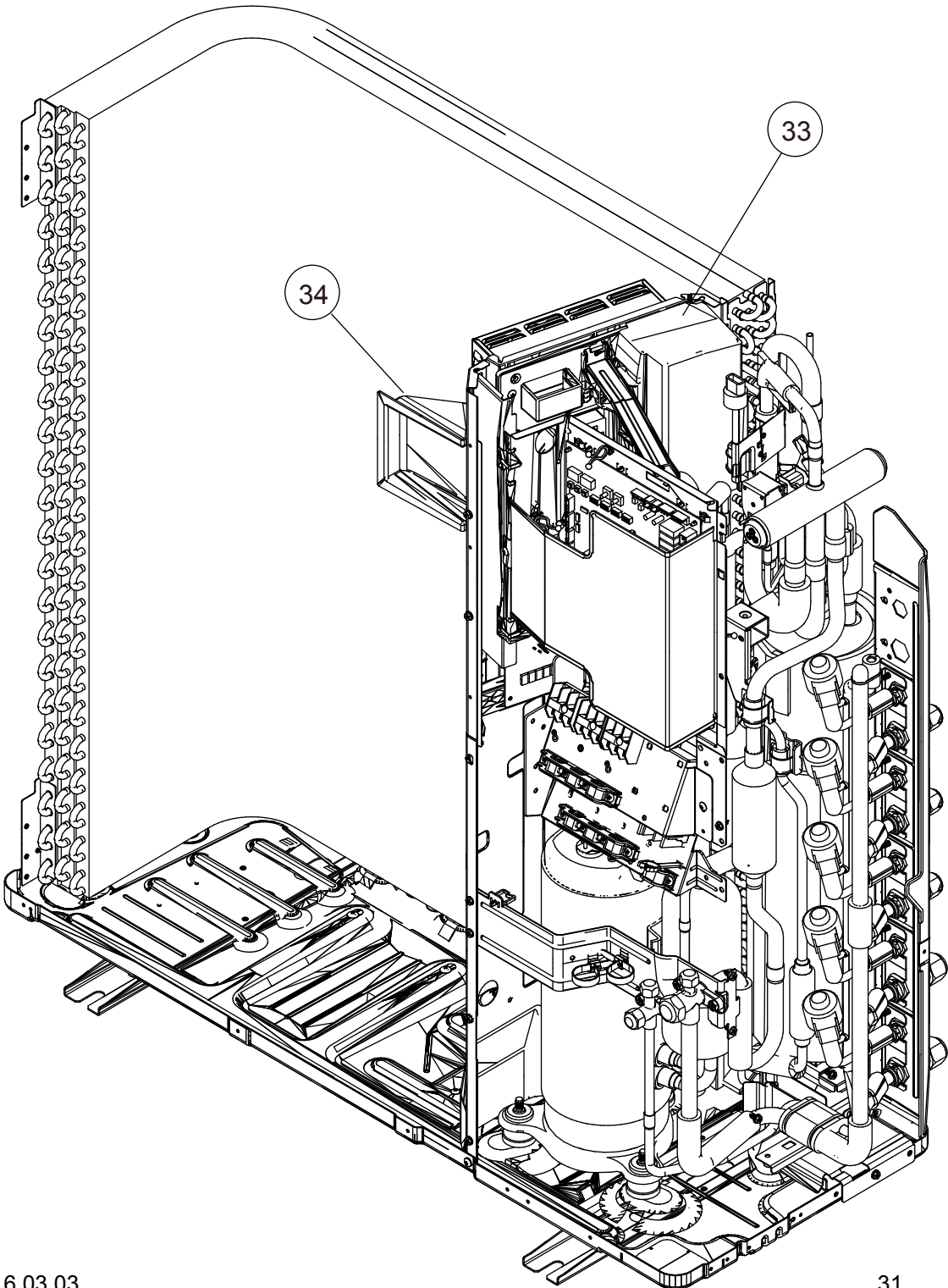
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1	Adapter K Assy	9379963022
2	Adapter L Assy	9379963039
3	Adapter H	9379681001
4	Drain Cap (AOU45RLXFZ)	313166024302
5	Drain Assy (AOU45RLXFZ)	9303029015
6	Outdoor Thermistor	9900565046
7	Thermistor Holder	9332505009
8	Protective Net Rear	9381013005
9	Protective Net Left	9381014002
10	Cabinet Left	9380968009
11	Cabinet Right Sub Assy	9380570035

Ref.	Description	Part number
21	Union Cover	9382204006
22	Top Panel Sub Assy	9379416030
23	Front Panel Sub Assy	9380569039
24	Service Panel Sub Assy	9380571032
25	FUJITSU Label	9380477006
26	Propeller Fan	9379414005
27	Fan Motor	9603496012
28	Base Heater Assy (AOU36)	9900919009

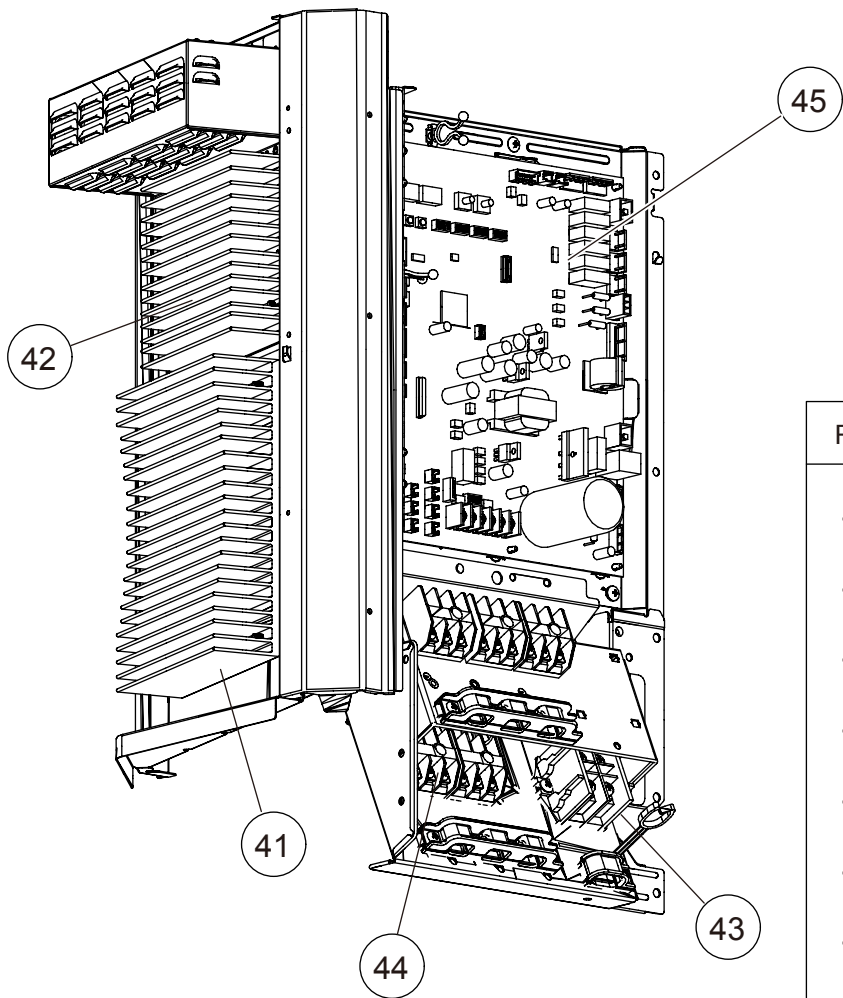
OUTDOOR UNIT
AOU36RLXFZH
AOU45RLXFZ



OUTDOOR UNIT
 AOU36RLXFZH
 AOU45RLXFZ

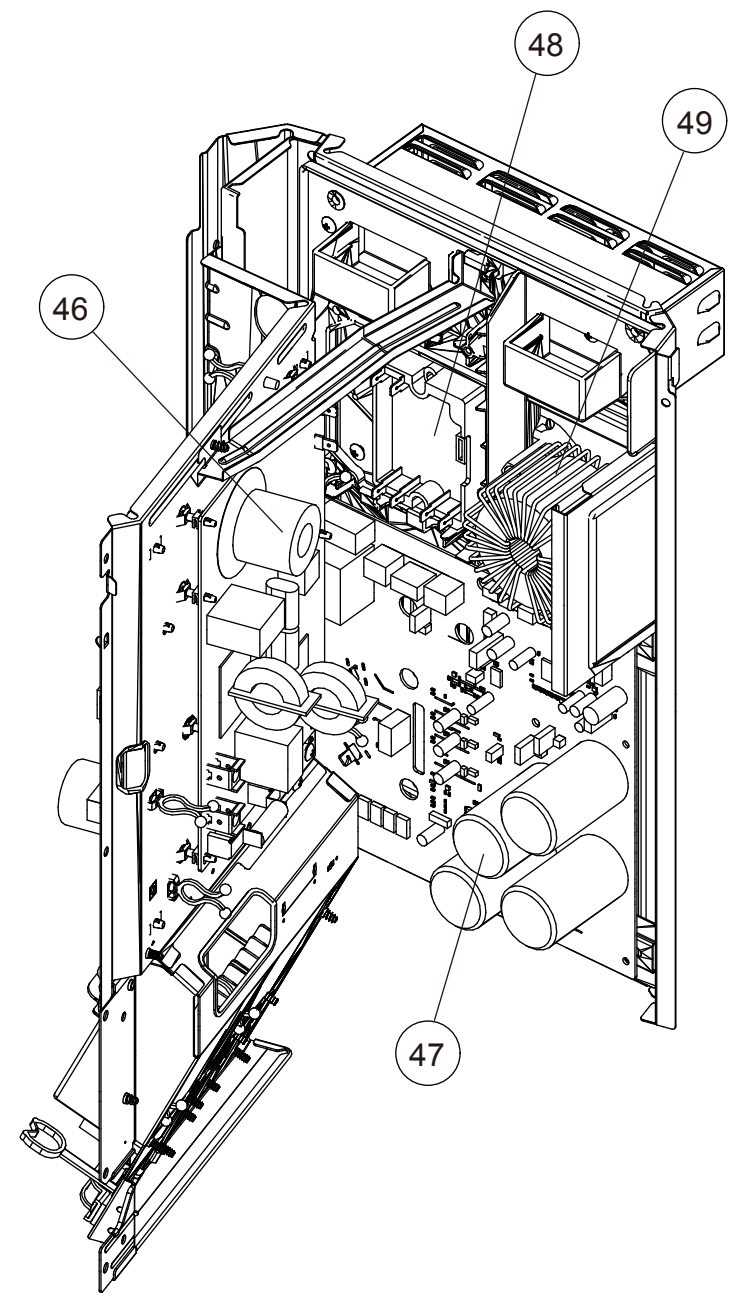


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31	Thermistor Assy	9900922016
32	Heat Ex. Thermistor	9900923013
33	Duct A	9380961000
34	Duct D	9380959007



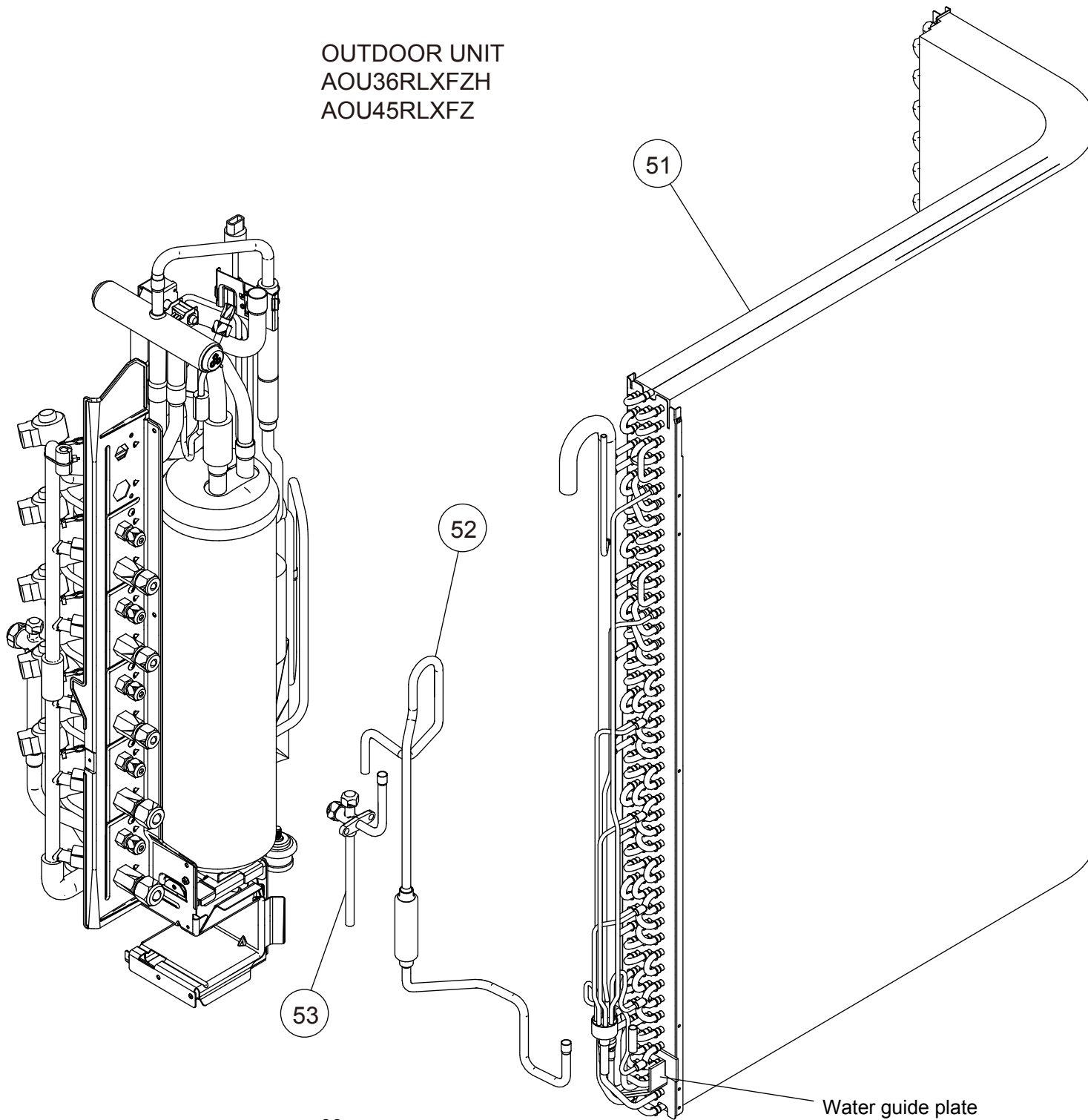
OUTDOOR UNIT
 AOU36RLXFZH
 AOU45RLXFZ
 Inverter assy

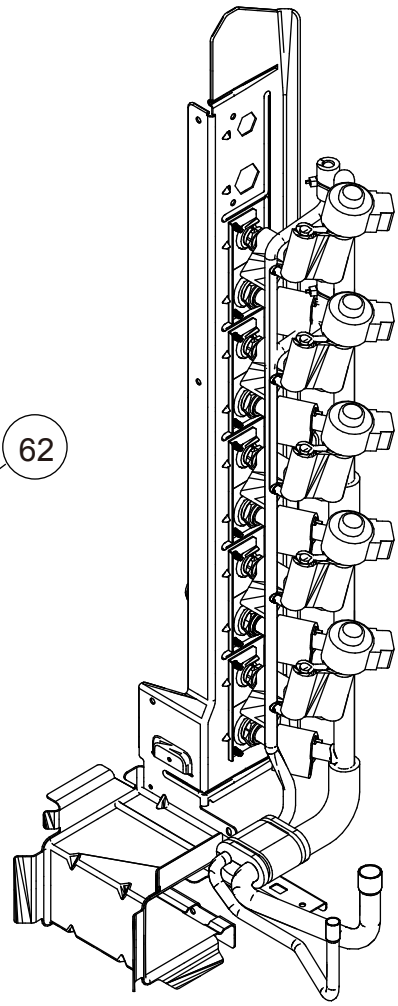
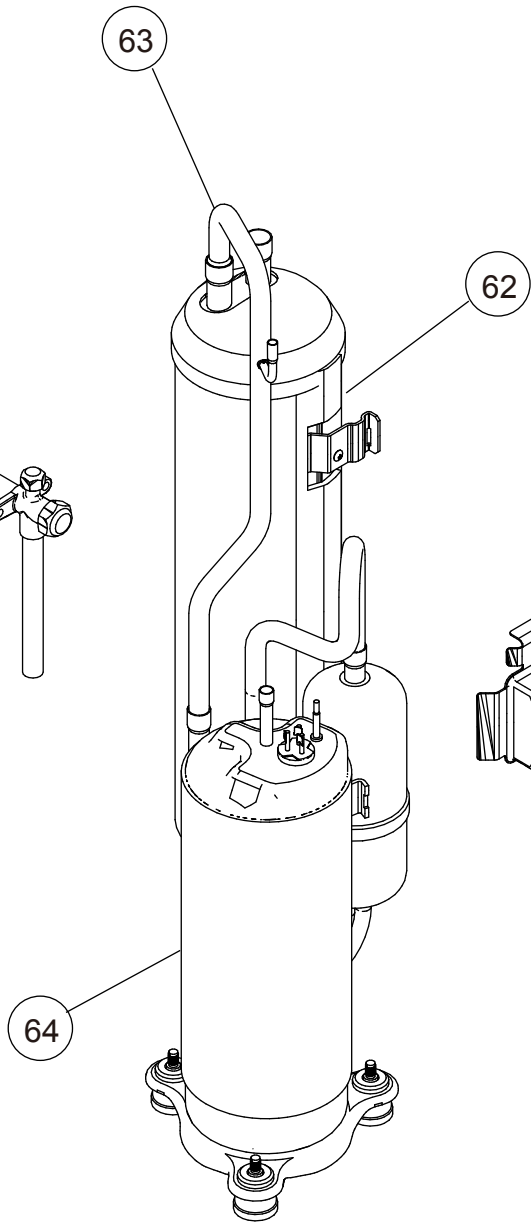
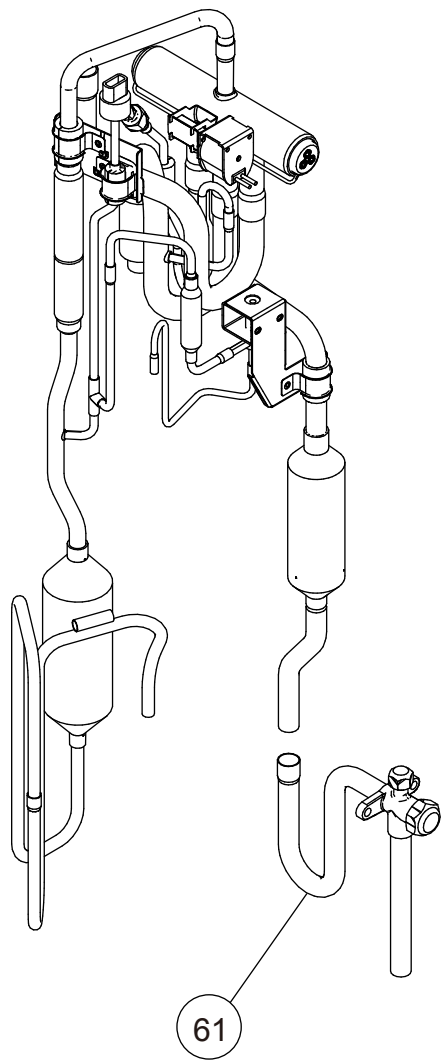
Ref.	Description	Parts number
41	Heat Sink A	9380483007
42	Heat Sink C	9380980018
43	Terminal 2P Power	9900428105
44	Terminal 3P Inner	9306489045
45	Main PCB (AOU36)	9710455018
45	Main PCB (AOU45)	9710455001
46	Filter PCB	9709911044
47	Transistor PCB	9709901083
48	ACTPM	9708920009
49	Choke Coil	9900624019



Ref.	Description	Part number
51	Condenser Sub Assy	9374420360
52	Condensing Pipe Assy	9371378107
53	3-way Valve Assy	9381055012

OUTDOOR UNIT
 AOU36RLXFZH
 AOU45RLXFZ

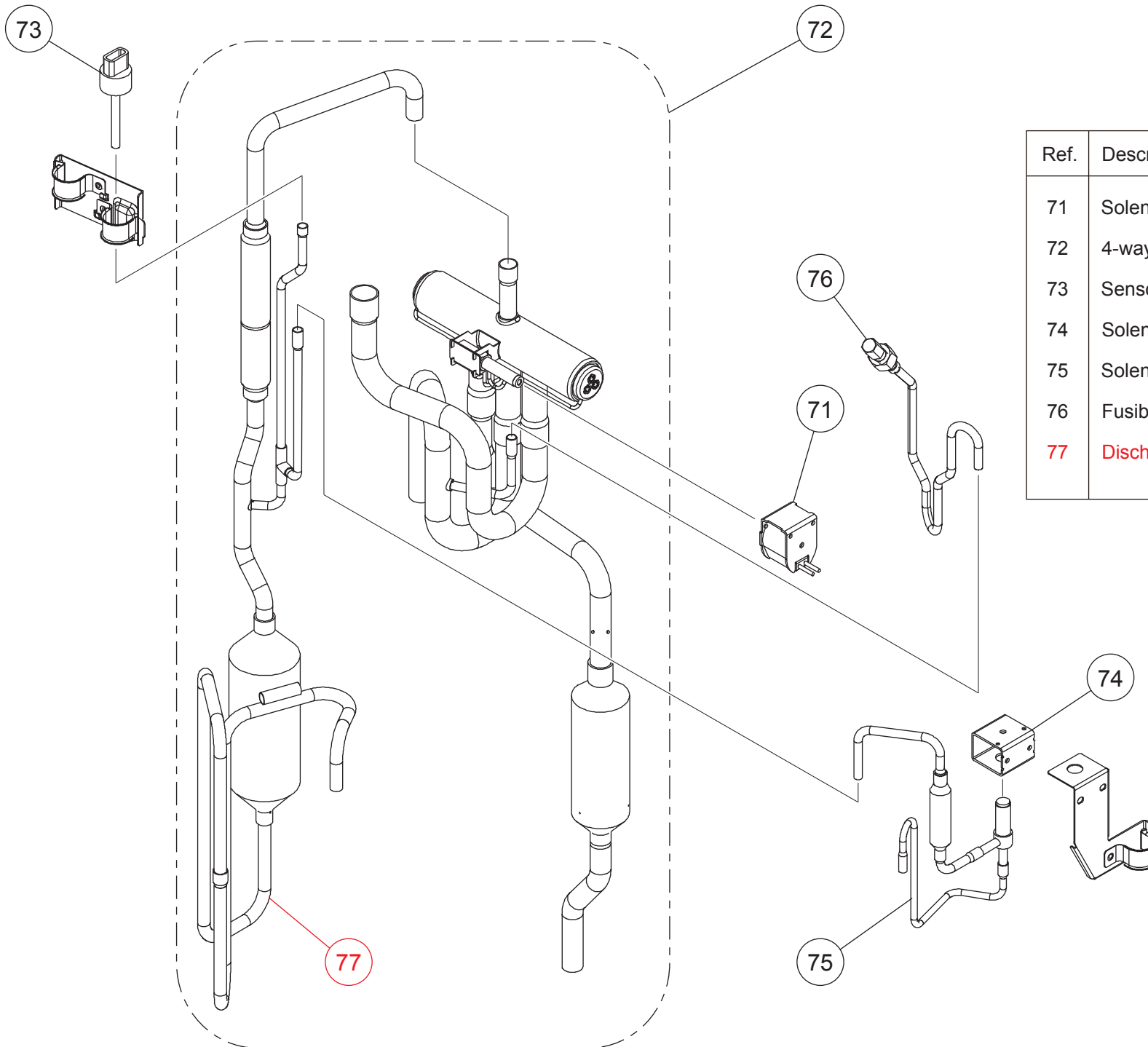




OUTDOOR UNIT
 AOU36RLXFZH
 AOU45RLXFZ

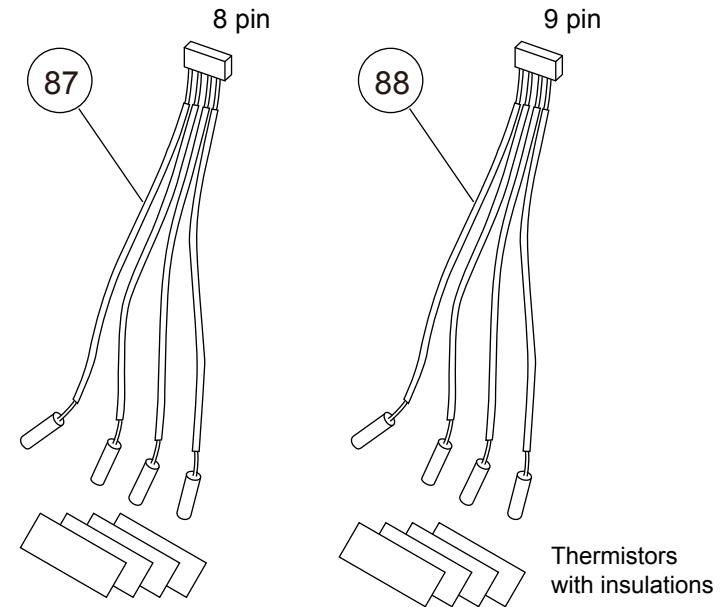
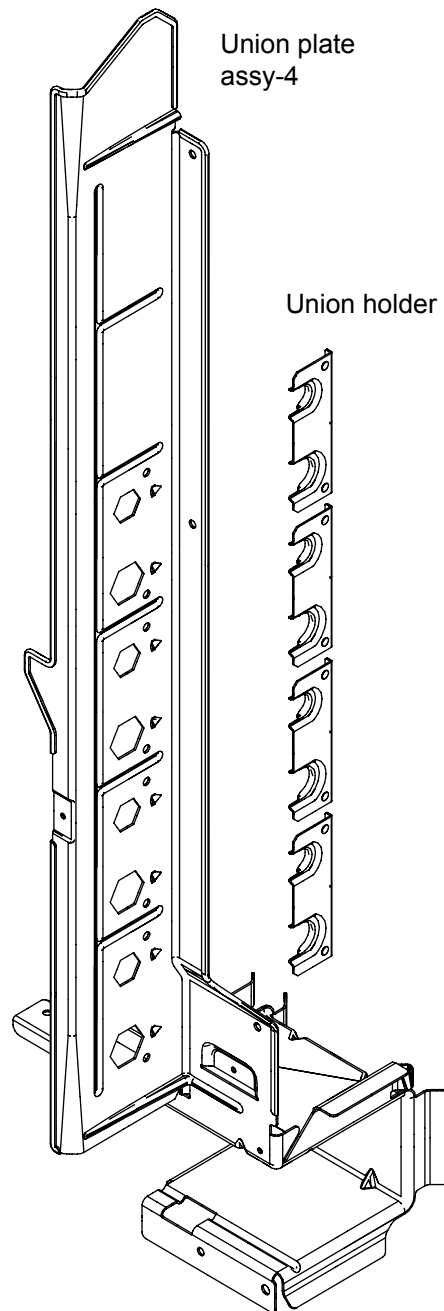
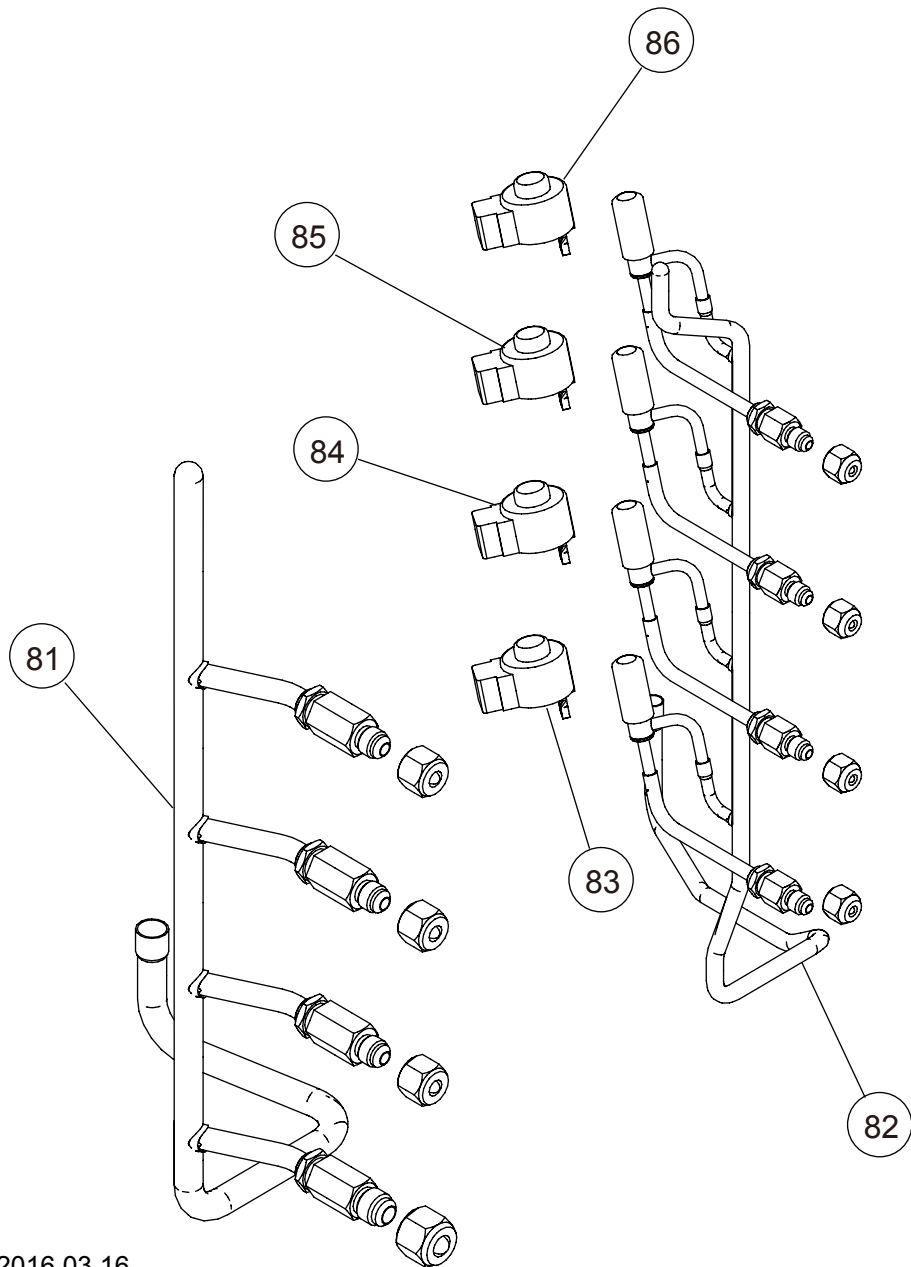
Ref.	Description	Part number
61	3-way Valve Assy	9315414052
62	Accumulator Sub Assy	9372700075
63	Suction Pipe Assy	9372514191
64	Compressor	9810275004
-	Belt Heater	9900802035

OUTDOOR UNIT
 AOU36RLXFZH
 AOU45RLXFZ



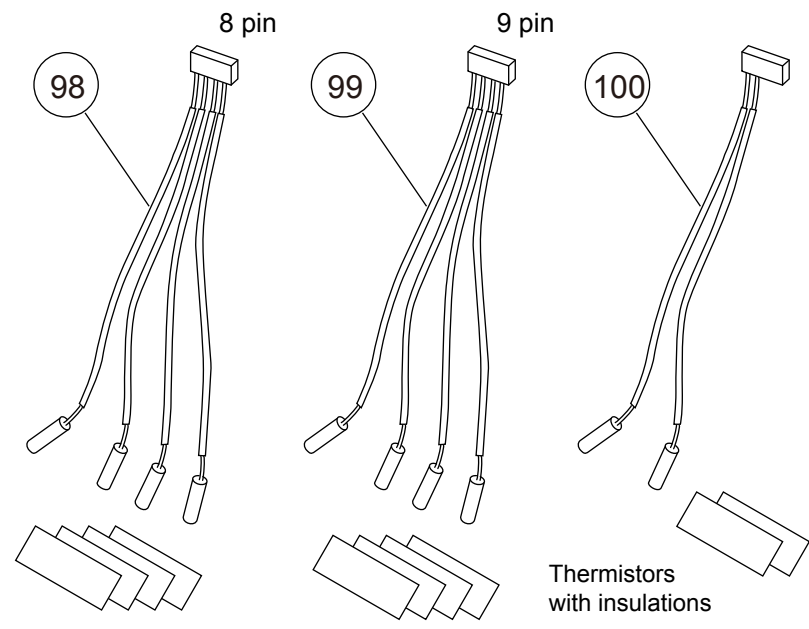
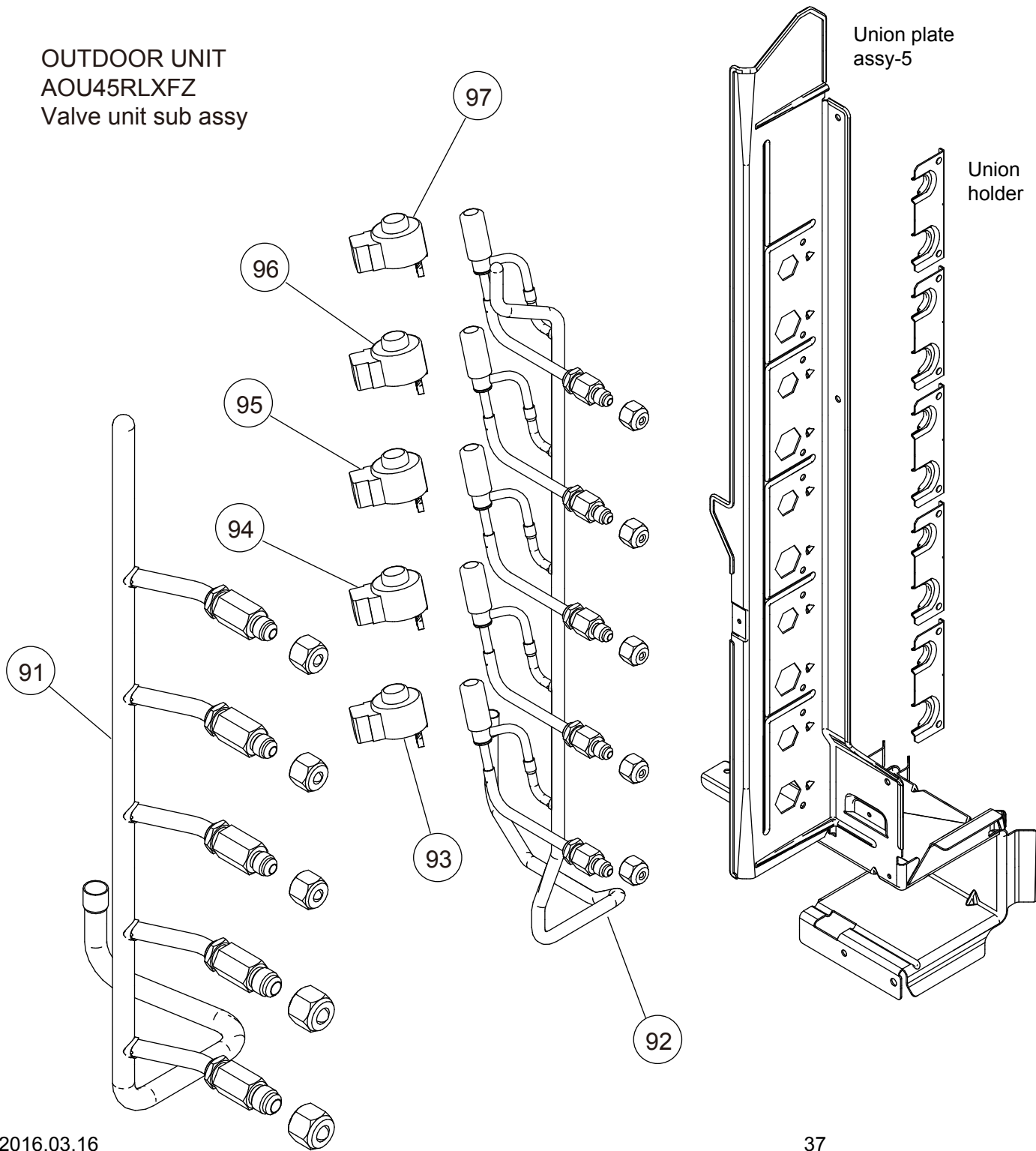
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71	Solenoid	9970110146
72	4-way Valve Assy	9374425532
73	Sensor	9970158018
74	Solenoid	9970165016
75	Solenoid Valve Assy	9380016038
76	Fusible Plug Pipe Assy	9382230005
77	Discharge Pipe Total Assy	9371581330

OUTDOOR UNIT
AOU36RLXFZH
Valve unit sub assy



Ref.	Description	Part number
81	Valve Gas Pipe Assy-4	9382236007
82	Valve Liquid Pipe Assy-4	9382235000
83	Expansion Valve Coil A	9970186004
84	Expansion Valve Coil B	9970187001
85	Expansion Valve Coil C	9970186011
86	Expansion Valve Coil D	9970187018
87	Thermistor BA Sub Assy	9382354008
88	Thermistor DC Sub Assy	9382355005

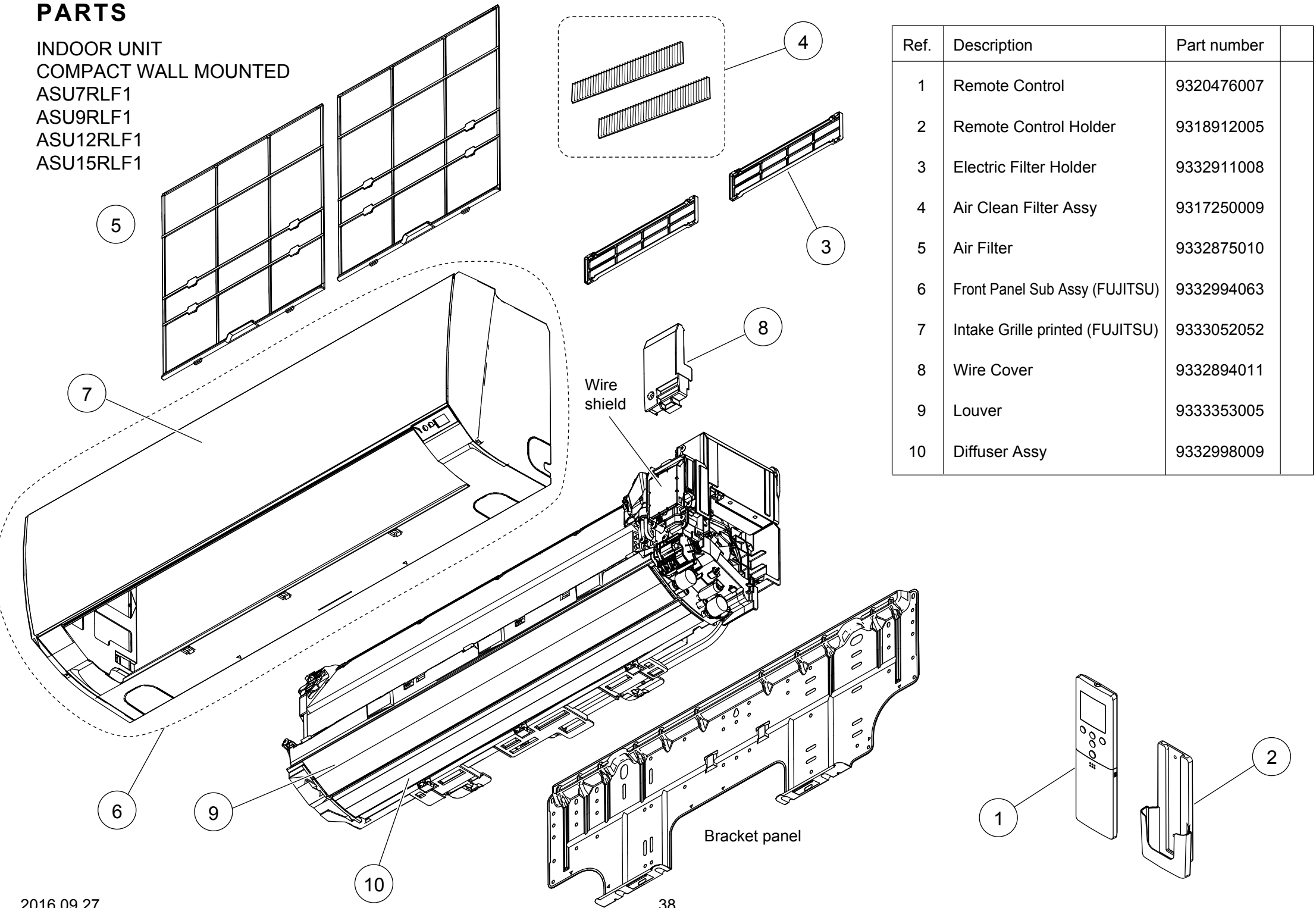
OUTDOOR UNIT
 AOU45RLXFZ
 Valve unit sub assy



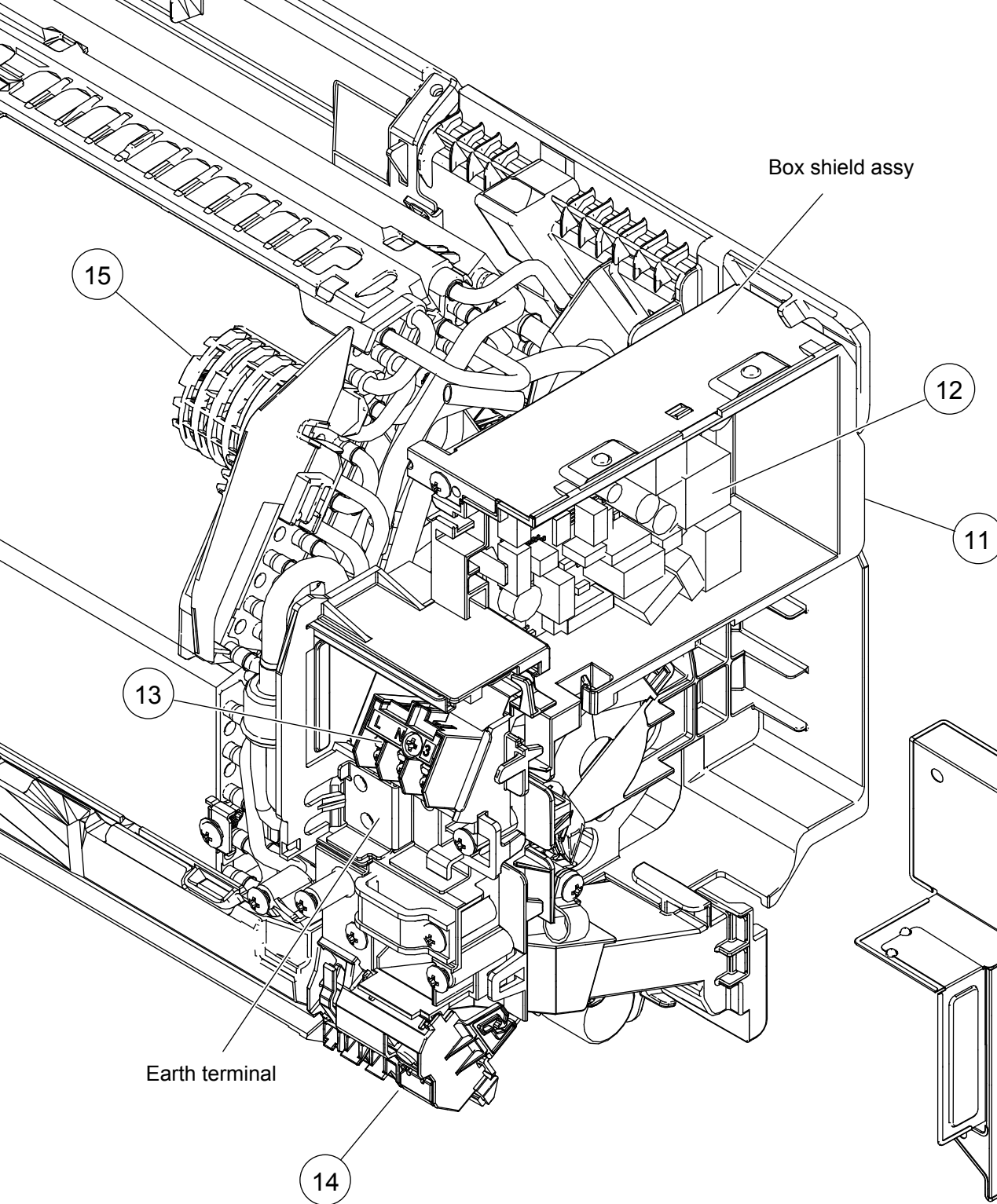
Ref.	Description	Part number
91	Valve Gas Pipe Assy-5	9382236014
92	Valve Liquid Pipe Assy-5	9382235017
93	Expansion Valve Coil A	9970186004
94	Expansion Valve Coil B	9970187001
95	Expansion Valve Coil C	9970186011
96	Expansion Valve Coil D	9970187018
97	Expansion Valve Coil E	9970186028
98	Thermistor BA Sub Assy	9382354008
99	Thermistor DC Sub Assy	9382355005
100	Thermistor E Sub Assy	9382356002

PARTS

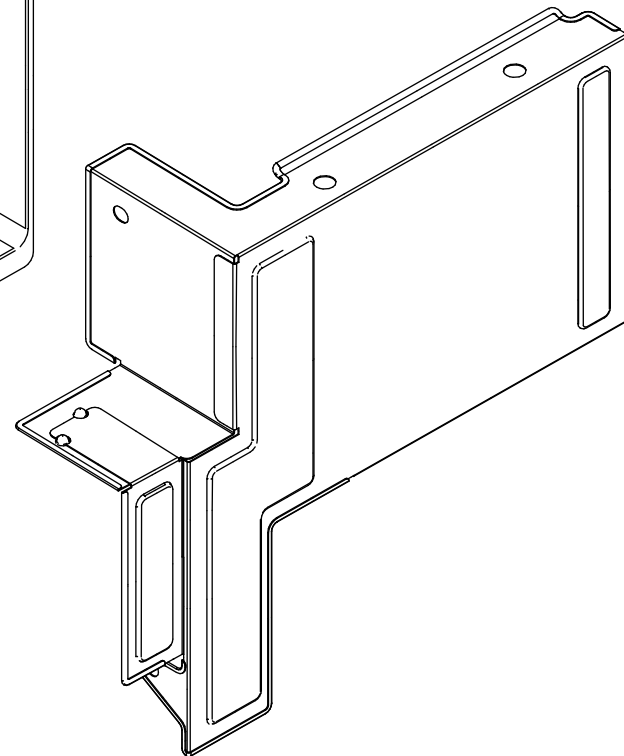
INDOOR UNIT
 COMPACT WALL MOUNTED
 ASU7RLF1
 ASU9RLF1
 ASU12RLF1
 ASU15RLF1



Ref.	Description	Part number
1	Remote Control	9320476007
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 (FUJITSU)	9332994063
7	Intake Grille printed (FUJITSU)	9333052052
8	Wire Cover	9332894011
9	Louver	9333353005
10	Diffuser Assy	9332998009



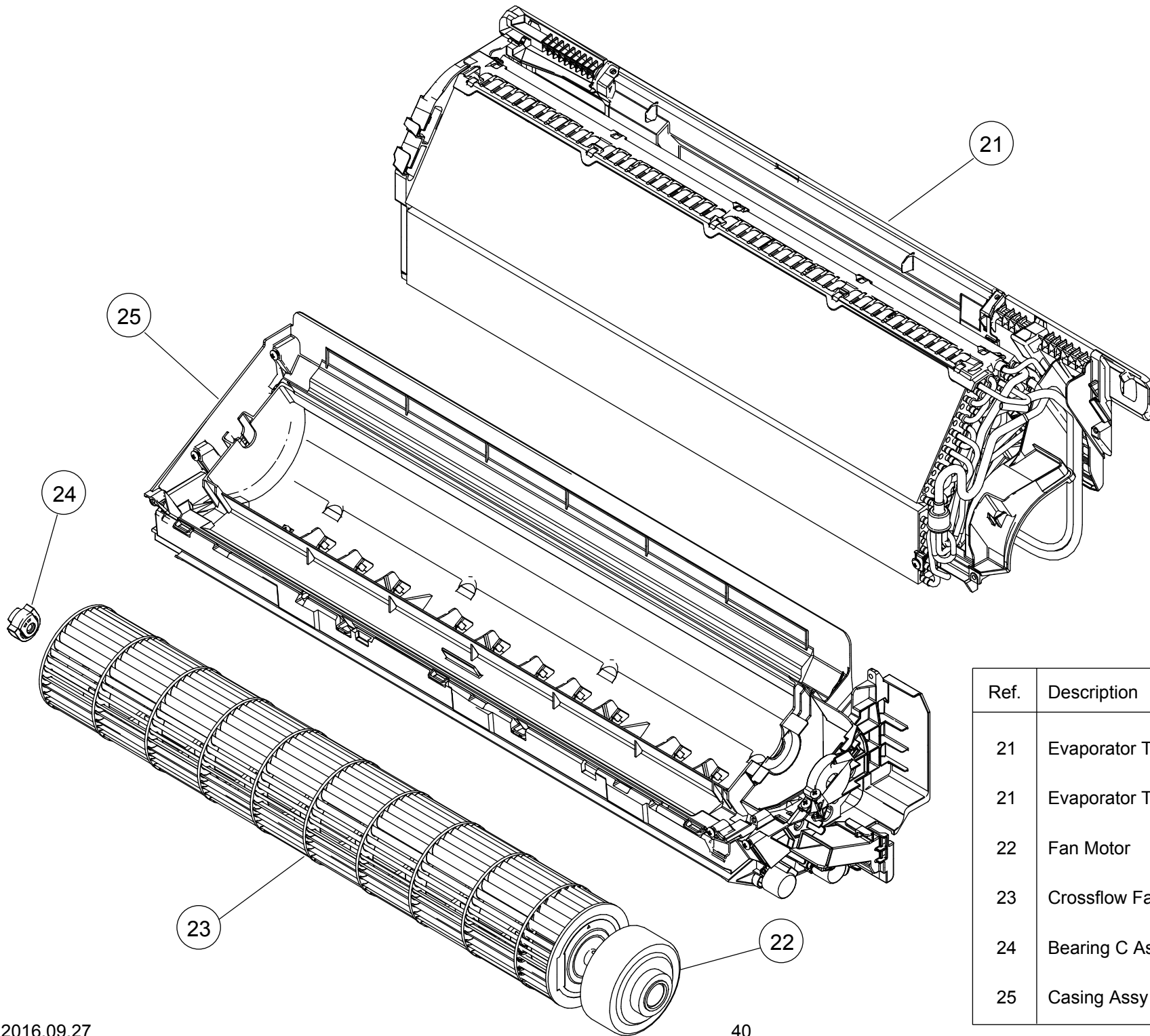
Ref.	Description	Part number
11	Control Box	9332892024
12	Main PCB (ASU7RLF1)	9709427354
12	Main PCB (ASU9RLF1)	9709427330
12	Main PCB (ASU12RLF1)	9709427347
12	Main PCB (ASU15RLF1)	9709427446
13	Terminal	9900720001
14	Display Assy	9709430019
15	Room Thermistor Holder	9332868005
--	Thermistor Assy	9900714024



Cover shield

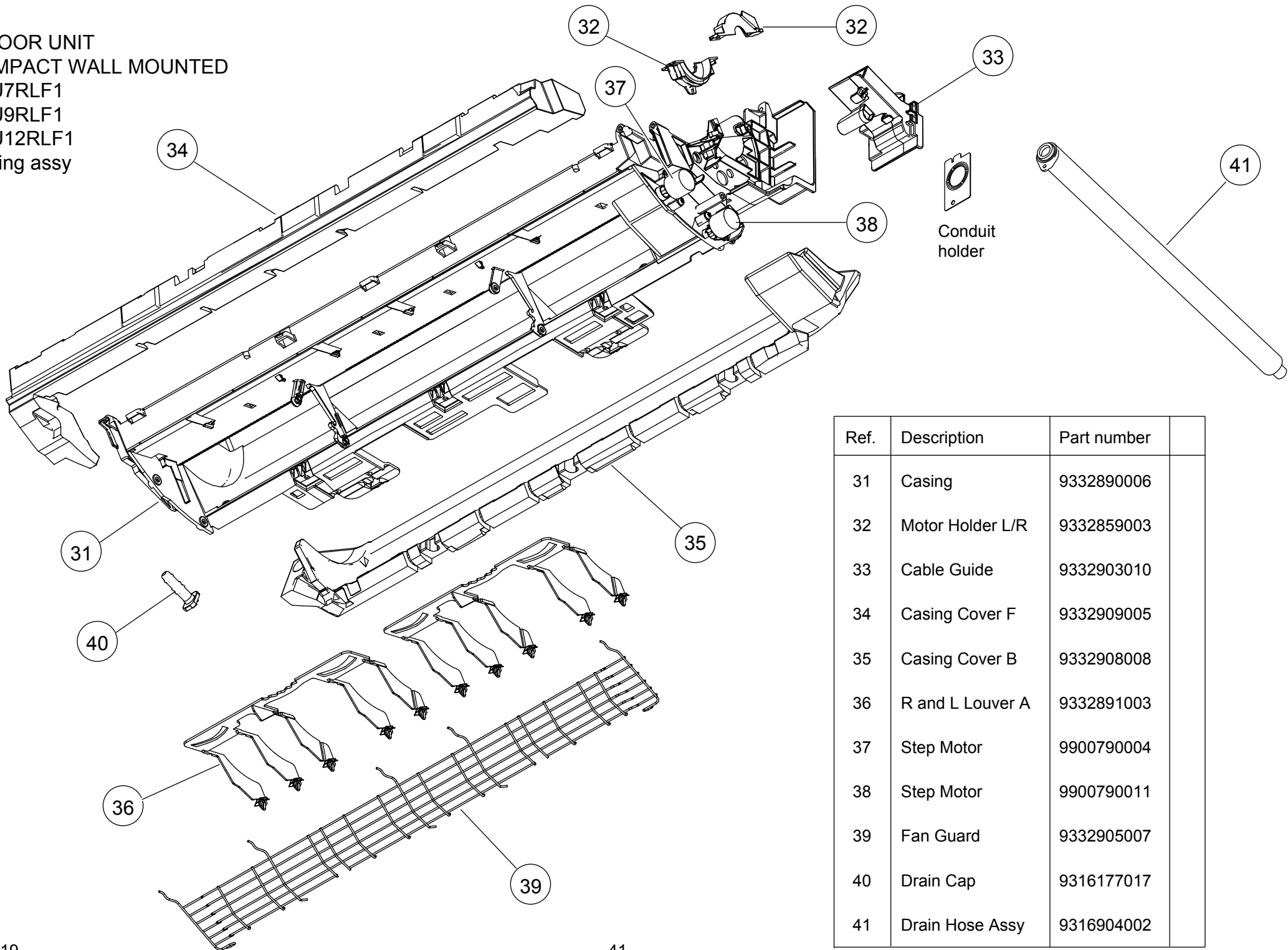
INDOOR UNIT
 COMPACT WALL MOUNTED
 ASU7RLF1
 ASU9RLF1
 ASU12RLF1
 ASU15RLF1
 Control box

INDOOR UNIT
 COMPACT WALL MOUNTED
 ASU7RLF1
 ASU9RLF1
 ASU12RLF1
 ASU15RLF1
 Evaporator
 Fan



Ref.	Description	Part number
21	Evaporator Total Assy (7, 9, 12)	9332989090
21	Evaporator Total Assy (15RLF1)	9332989113
22	Fan Motor	9603269012
23	Crossflow Fan Assy	9316830004
24	Bearing C Assy	9306628017
25	Casing Assy	9333009056

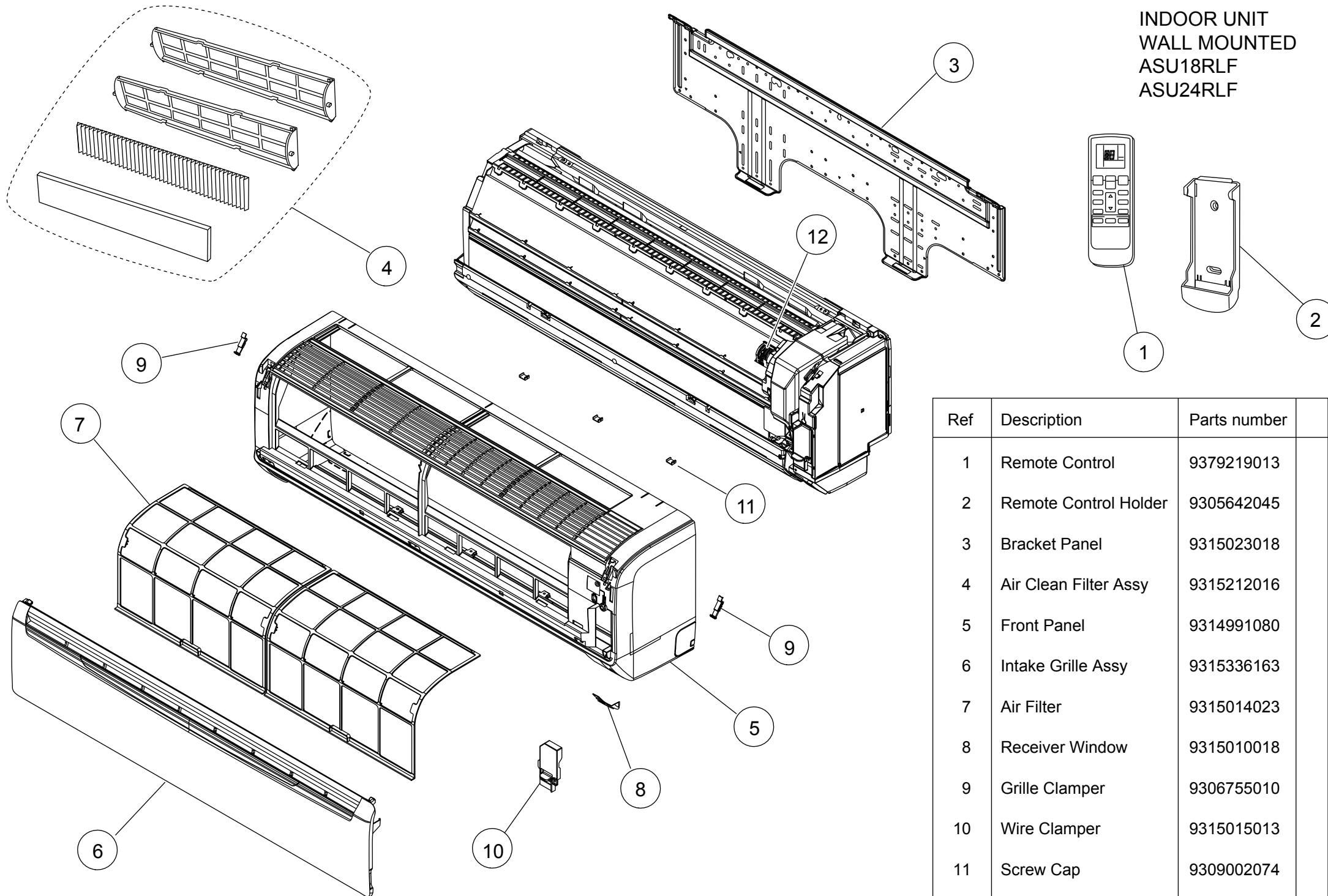
INDOOR UNIT
 COMPACT WALL MOUNTED
 ASU7RLF1
 ASU9RLF1
 ASU12RLF1
 Casing assy



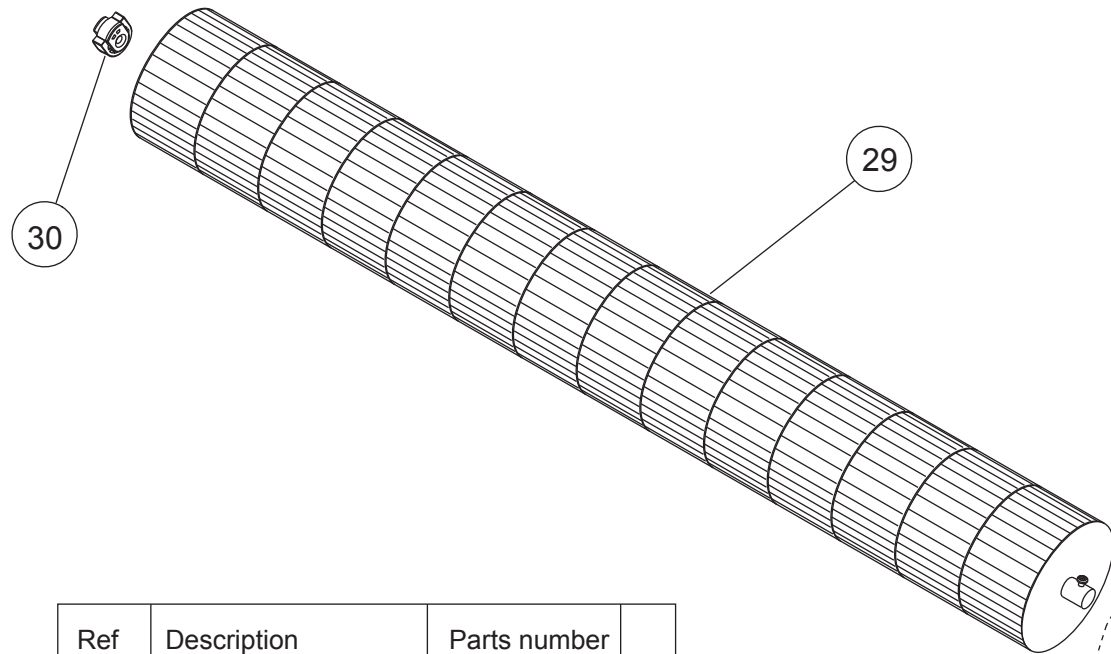
Ref.	Description	Part number
31	Casing	9332890006
32	Motor Holder L/R	9332859003
33	Cable Guide	9332903010
34	Casing Cover F	9332909005
35	Casing Cover B	9332908008
36	R and L Louver A	9332891003
37	Step Motor	9900790004
38	Step Motor	9900790011
39	Fan Guard	9332905007
40	Drain Cap	9316177017
41	Drain Hose Assy	9316904002

Conduit holder

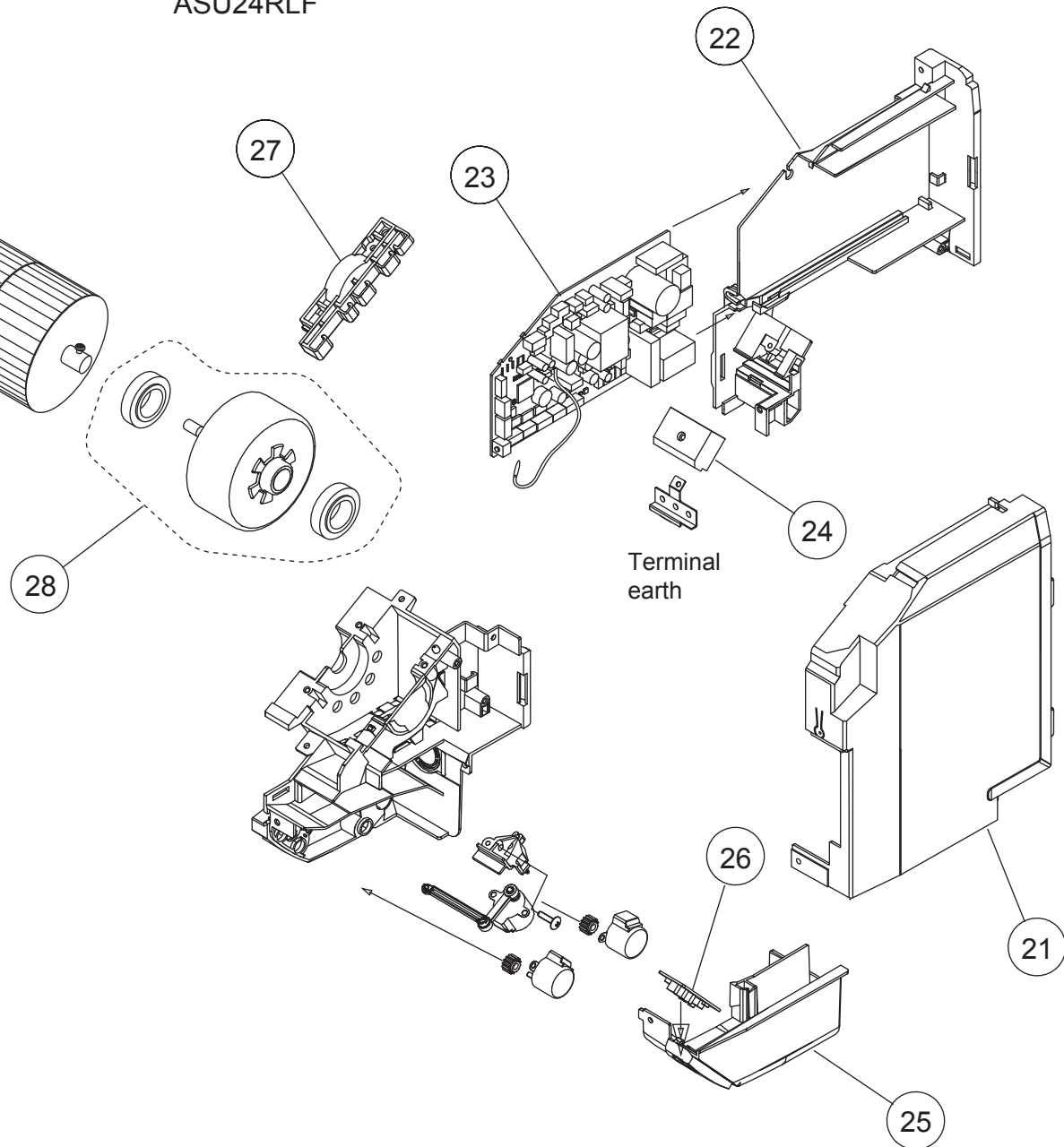
INDOOR UNIT
WALL MOUNTED
ASU18RLF
ASU24RLF



Ref	Description	Parts number
1	Remote Control	9379219013
2	Remote Control Holder	9305642045
3	Bracket Panel	9315023018
4	Air Clean Filter Assy	9315212016
5	Front Panel	9314991080
6	Intake Grille Assy	9315336163
7	Air Filter	9315014023
8	Receiver Window	9315010018
9	Grille Clamper	9306755010
10	Wire Clamper	9315015013
11	Screw Cap	9309002074
12	Room Thermistor Holder	9315252012



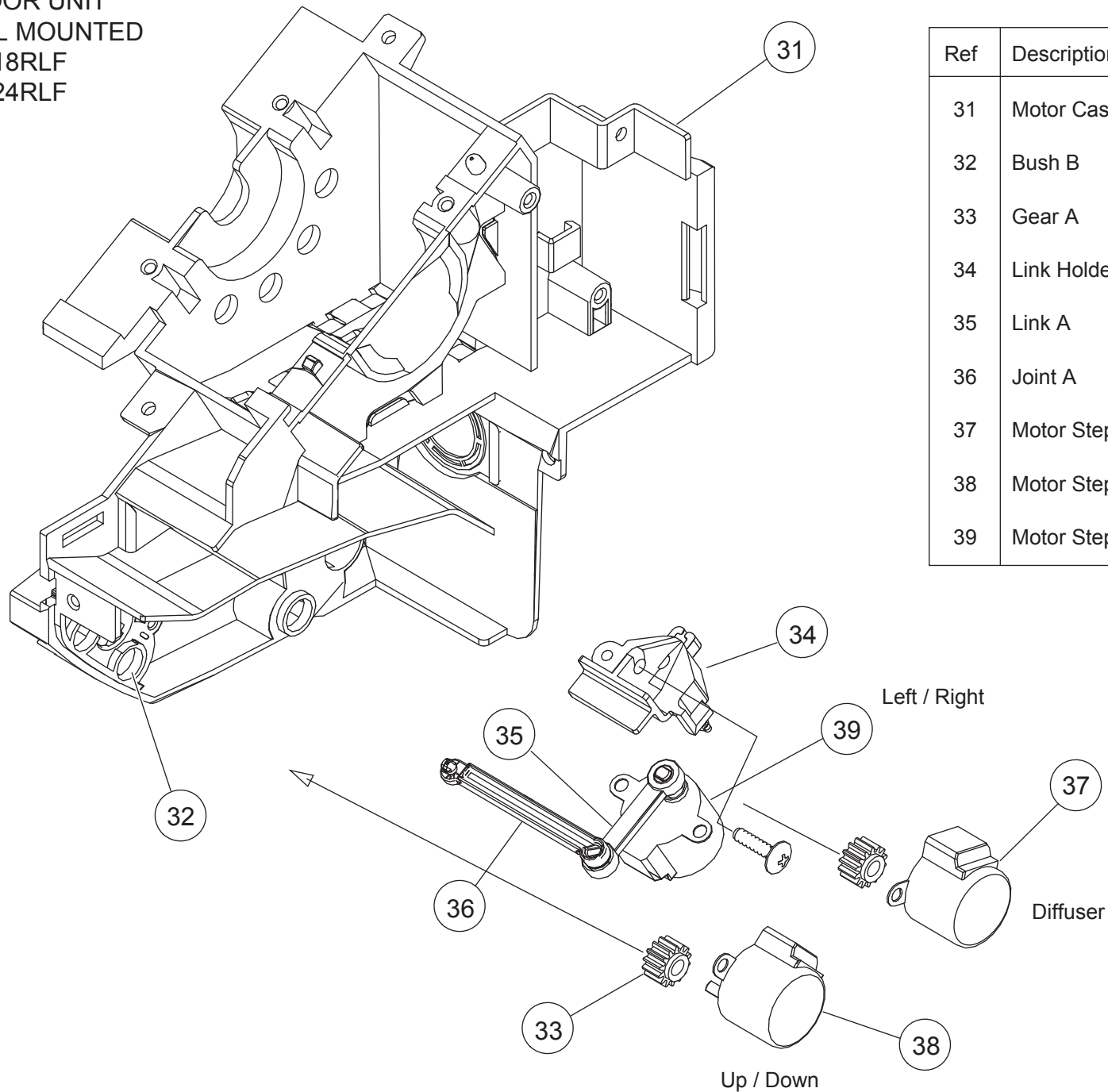
INDOOR UNIT
WALL MOUNTED
ASU18RLF
ASU24RLF



Ref	Description	Parts number
21	Control Box Cover	9314997020
22	Control Box	9314996023
23	Main PCB (ASU18R)	9708540368
23	Main PCB (ASU24R)	9708540375
24	Terminal	9900447014
25	Display Case	9314999024
26	Indicator PCB	9707210057
27	Motor Clamper	9315012012
28	Fan Motor Assy	9602784004
29	Crossflow Fan Assy	9315024015
30	Bearing C Assy	9306628017

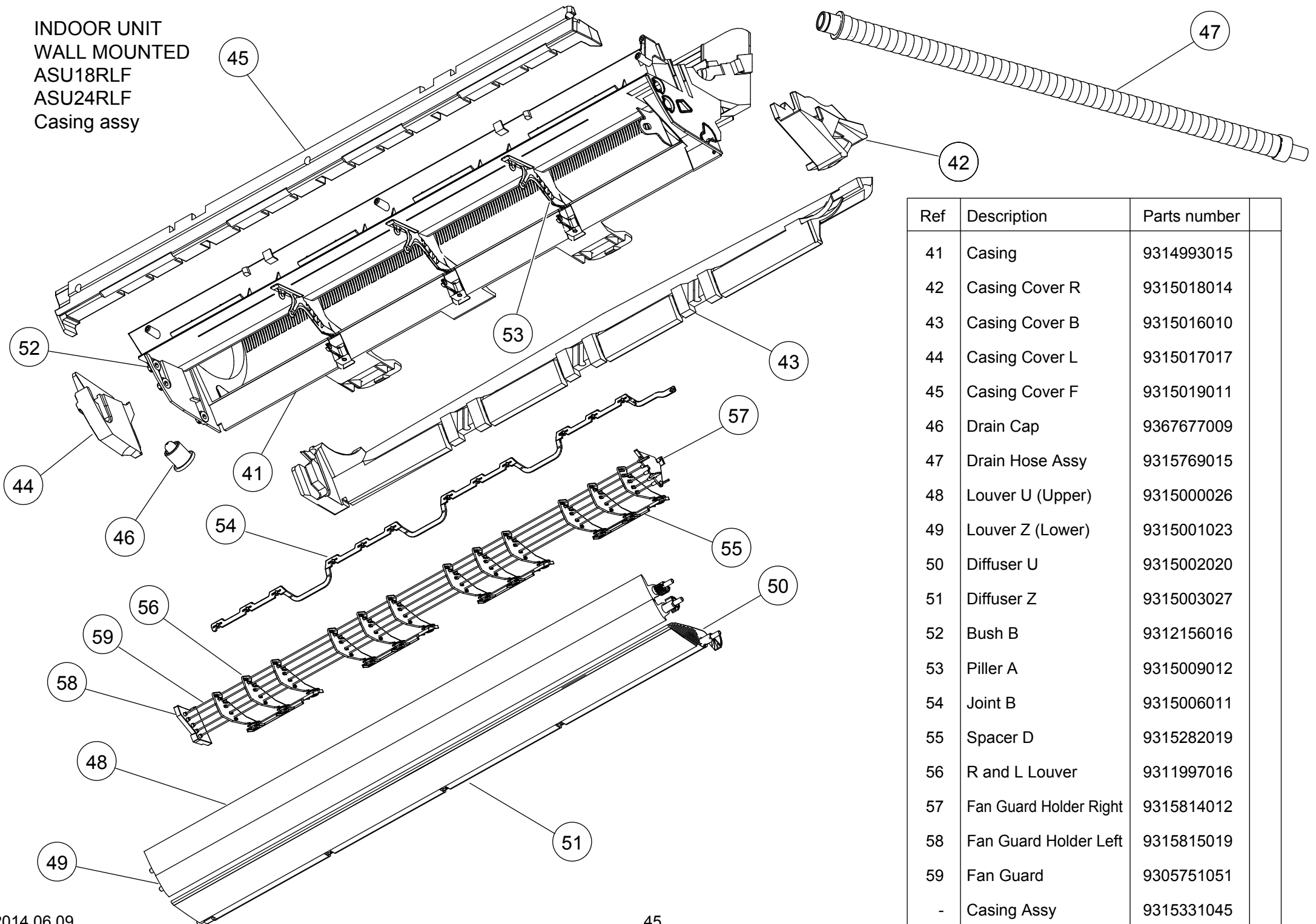
Terminal
earth

INDOOR UNIT
WALL MOUNTED
ASU18RLF
ASU24RLF



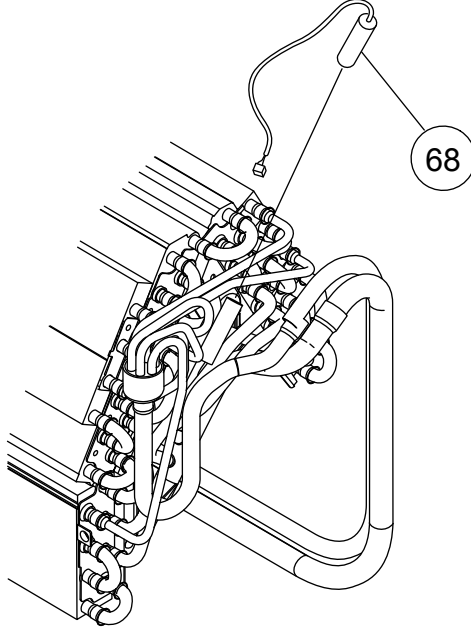
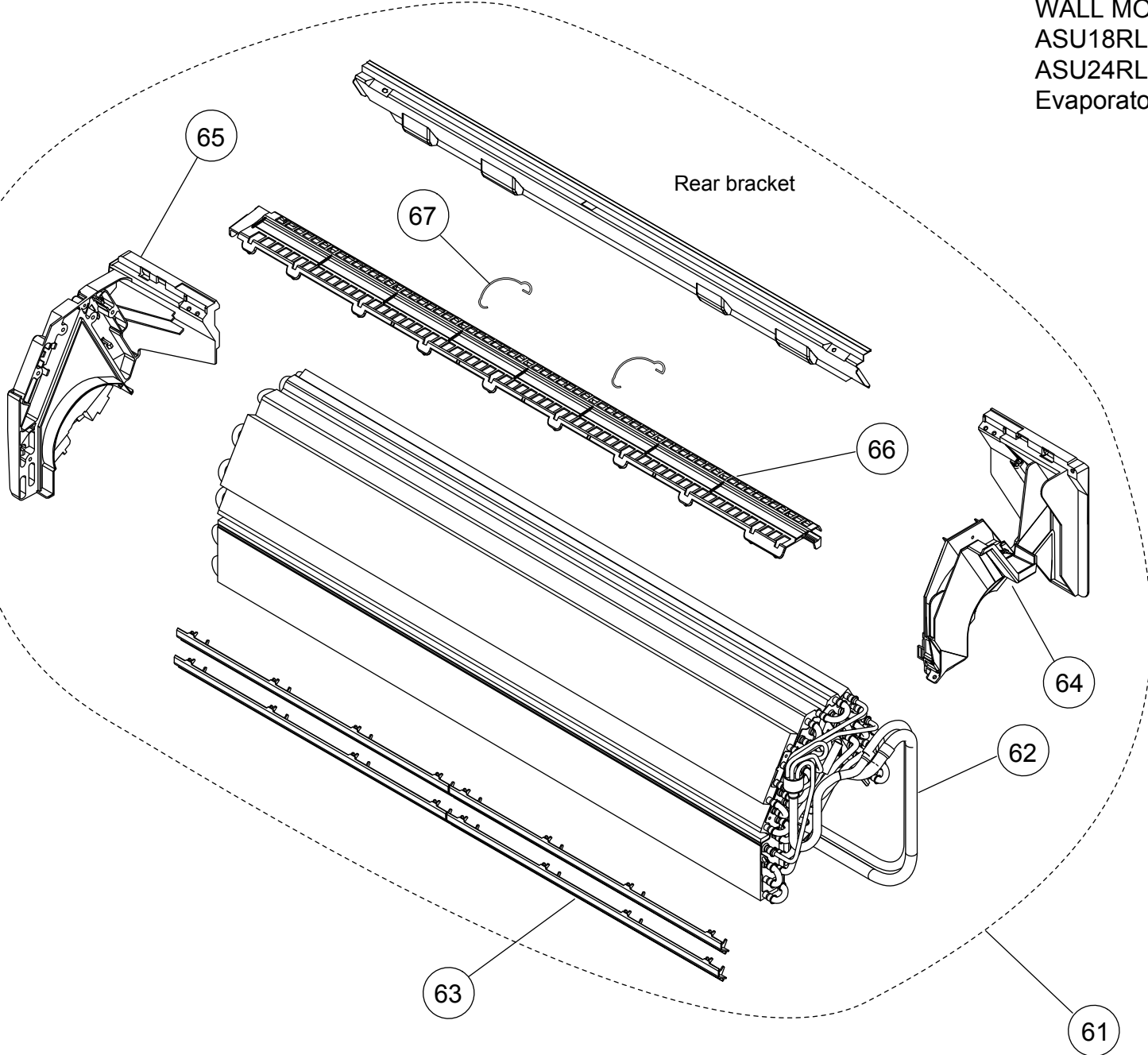
Ref	Description	Parts number
31	Motor Case	9314998027
32	Bush B	9312156016
33	Gear A	9309994003
34	Link Holder	9315007018
35	Link A	9315008015
36	Joint A	9315005014
37	Motor Step (Red)	9900384029
38	Motor Step (Green)	9900384036
39	Motor Step (Blue)	9900139063

INDOOR UNIT
WALL MOUNTED
ASU18RLF
ASU24RLF
Casing assy



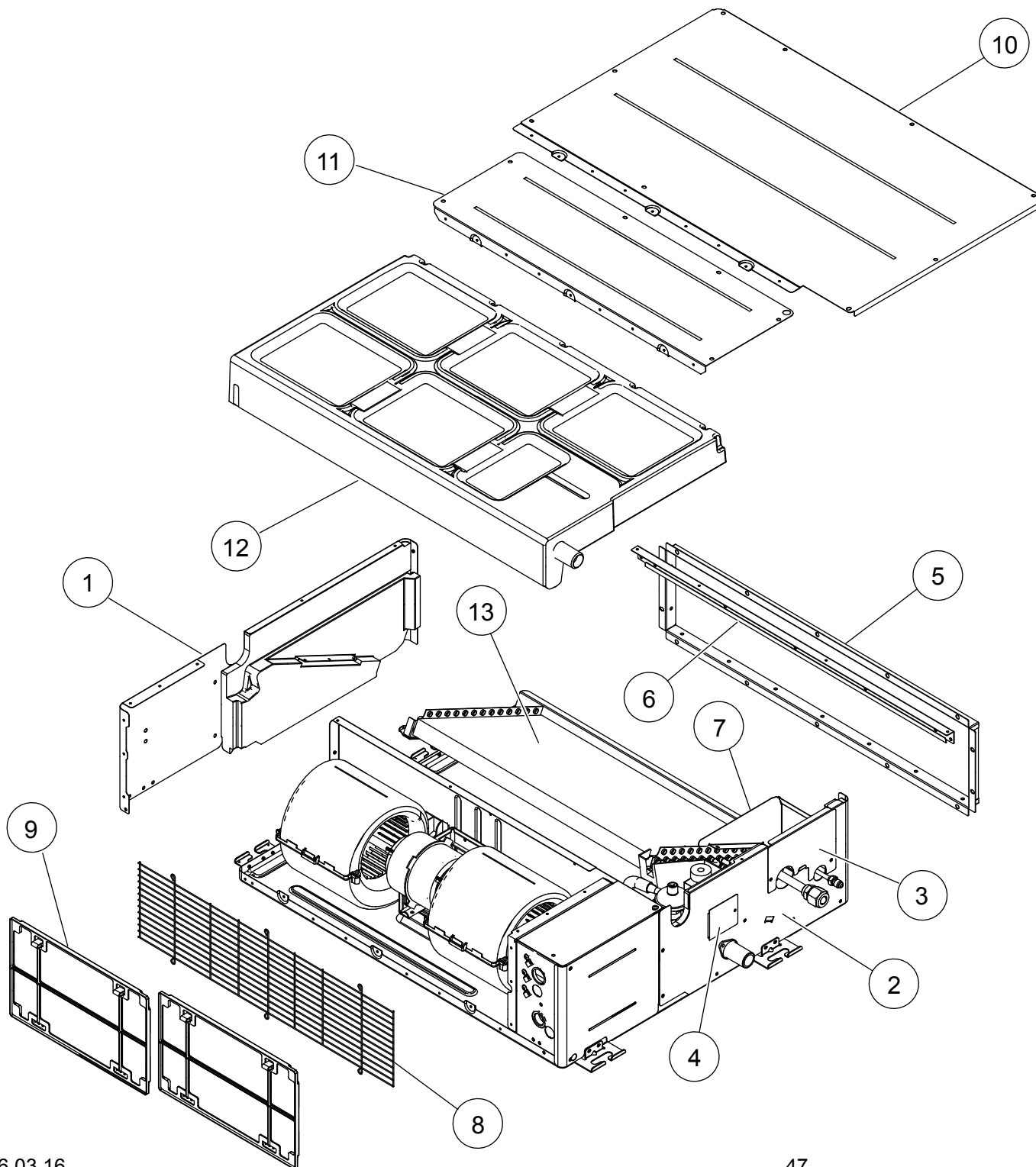
Ref	Description	Parts number
41	Casing	9314993015
42	Casing Cover R	9315018014
43	Casing Cover B	9315016010
44	Casing Cover L	9315017017
45	Casing Cover F	9315019011
46	Drain Cap	9367677009
47	Drain Hose Assy	9315769015
48	Louver U (Upper)	9315000026
49	Louver Z (Lower)	9315001023
50	Diffuser U	9315002020
51	Diffuser Z	9315003027
52	Bush B	9312156016
53	Pillar A	9315009012
54	Joint B	9315006011
55	Spacer D	9315282019
56	R and L Louver	9311997016
57	Fan Guard Holder Right	9315814012
58	Fan Guard Holder Left	9315815019
59	Fan Guard	9305751051
-	Casing Assy	9315331045

INDOOR UNIT
WALL MOUNTED
ASU18RLF
ASU24RLF
Evaporator

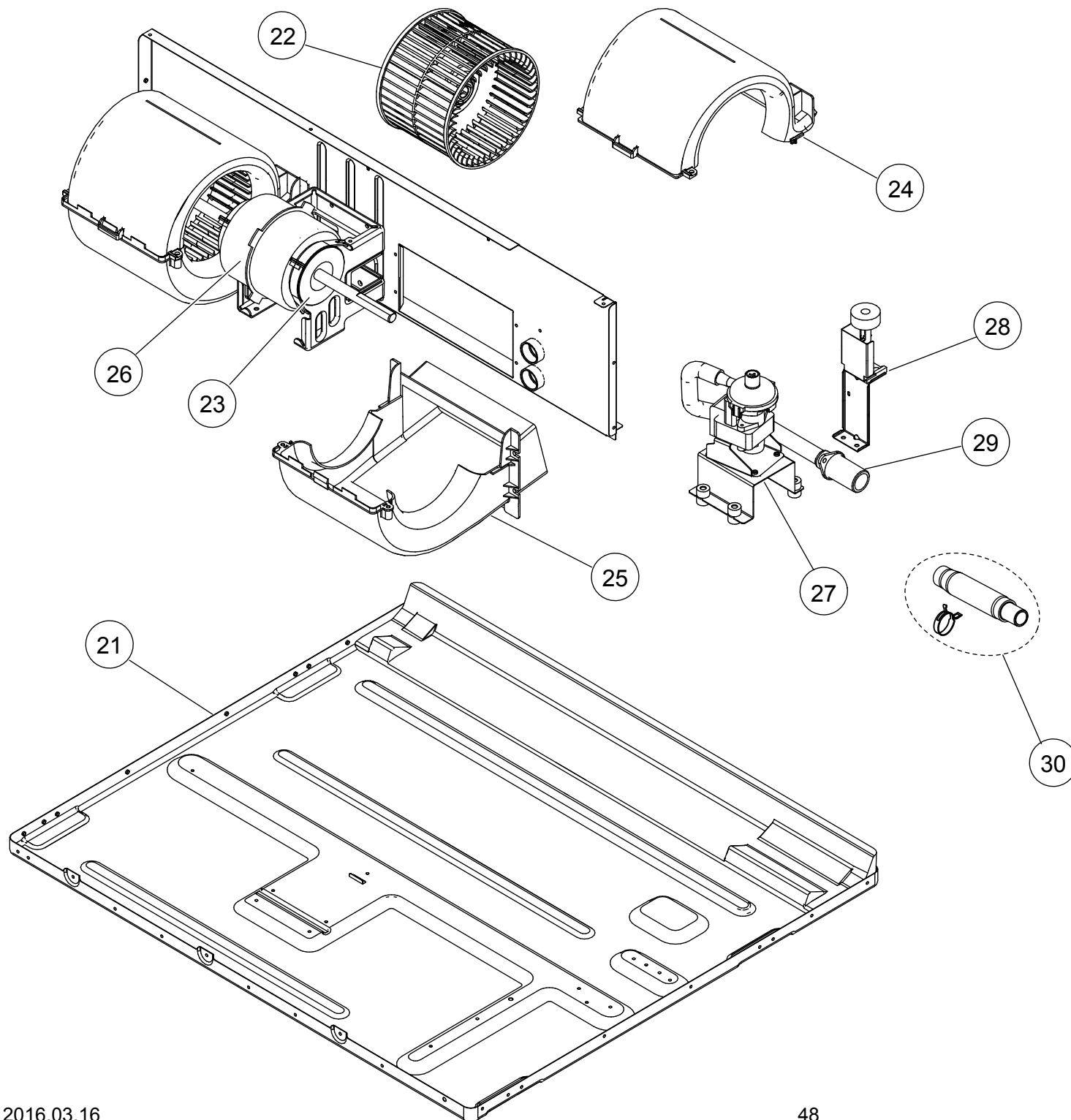


Ref	Description	Parts number
61	Evaporator Total Assy (18)	9315338181
61	Evaporator Total Assy (24)	9315338174
62	Connection Pipe Assy (18)	9315355041
62	Connection Pipe Assy (24)	9315355058
63	Water Seal	9315251015
64	Evaporator Holder R	9314994012
65	Evaporator Holder L	9314995019
66	Filter Guide	9315013019
67	Filter Guard	9315411013
68	Pipe Thermistor	9900551018

INDOOR UNIT
SLIM DUCT
ARU7RLF
ARU9RLF
ARU12RLF



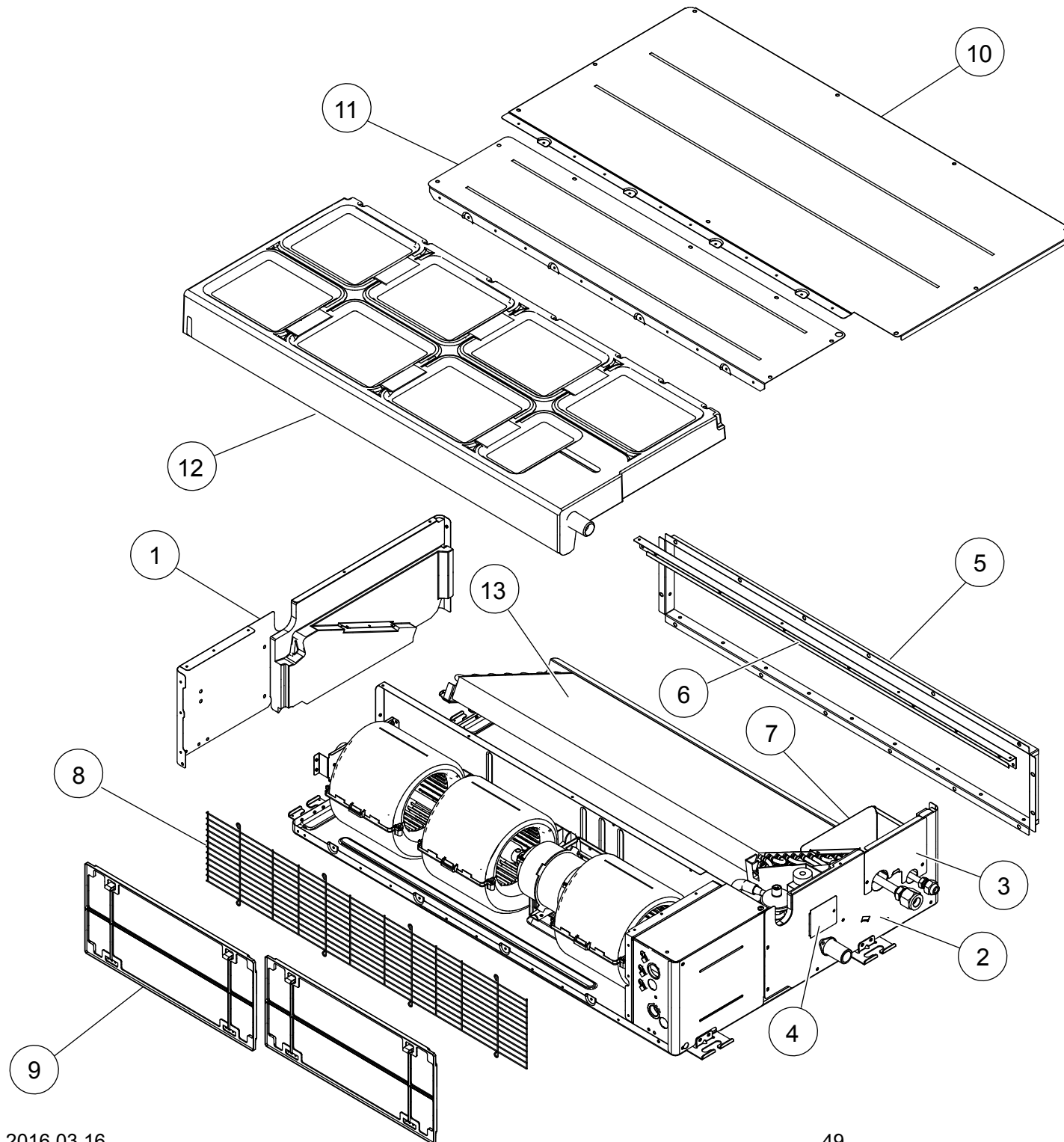
Ref	Description	Parts number
1	Side Panel R Sub Assy	9379906012
2	Side Panel L Sub Assy	9379907019
3	Pipe Panel Sub Assy	9379900003
4	Panel (Window) Sub Assy	9379915007
5	Outlet Frame Assy	9380042006
6	Front Panel (2 Fan)	9380594000
7	Valve Cover Sub Assy	9379576017
8	Fan Guard (2 Fan)	9380589006
9	Air Filter	9379574006
10	Main Panel (2 Fan)	9380602019
11	Cabinet Panel (2 Fan)	9380597001
12	Drain Pan Sub Assy	9379901161
13	Evaporater Total Assy (7)	9380682080
13	Evaporater Total Assy (9, 12)	9380682042



INDOOR UNIT
SLIM DUCT
ARU7RLF
ARU9RLF
ARU12RLF

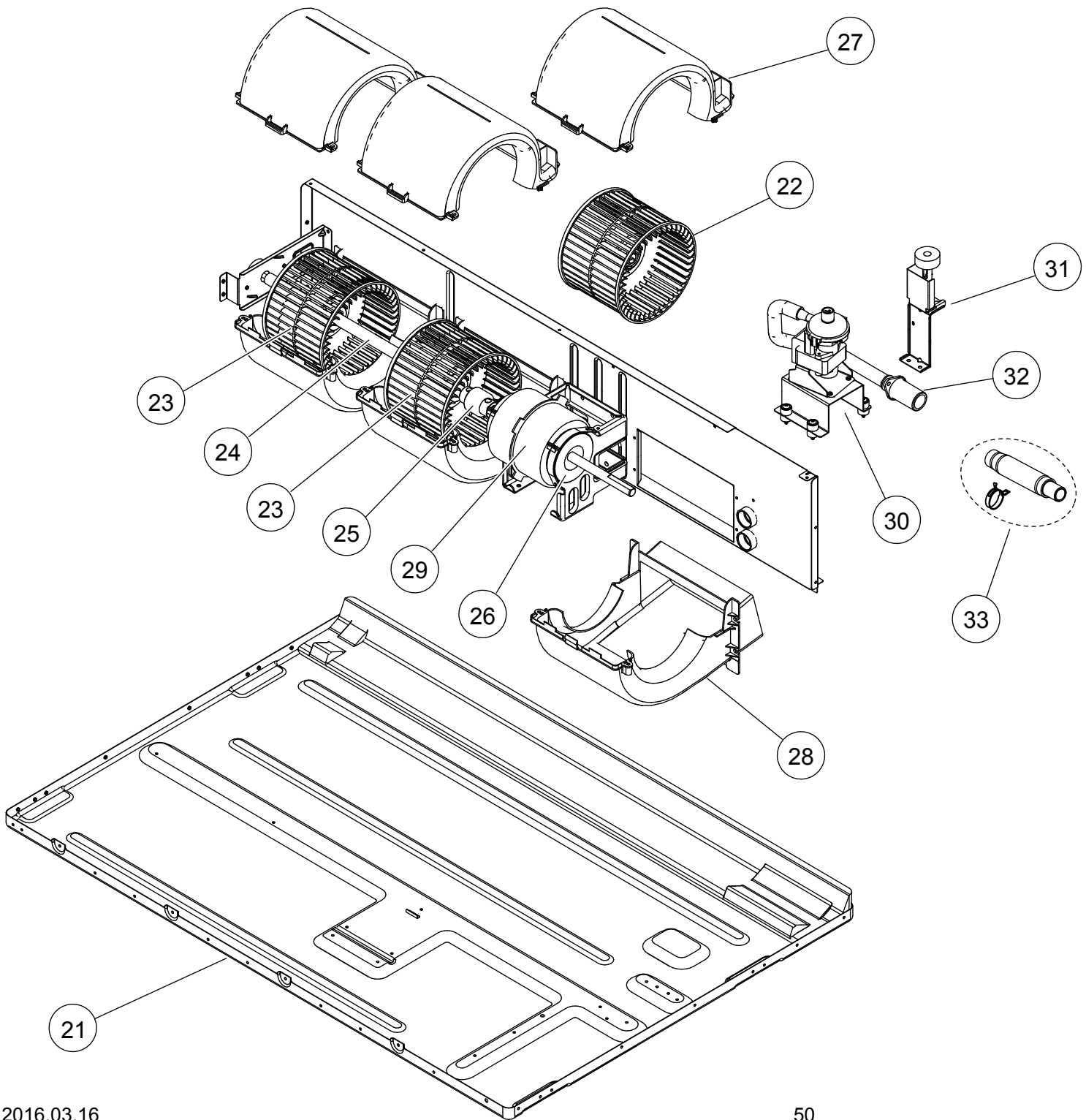
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21	Top Panel Sub Assy	9379908030
22	Sirroco Fan Assy	9379570015
23	Rubber (Vibration Proof)	9379644006
24	Casing B	9379572019
25	Casing U	9379571012
26	Fan Motor Assy (ARU7)	9603139018
26	Fan Motor Assy (9, 12)	9603283018
27	Drain Pump Sub Assy	9379914055
28	Float Switch Sub Assy	9378593022
29	Drain Hose Assy	9379913003
30	Hose Sub Assy	9378450141

INDOOR UNIT
SLIM DUCT
ARU18RLF



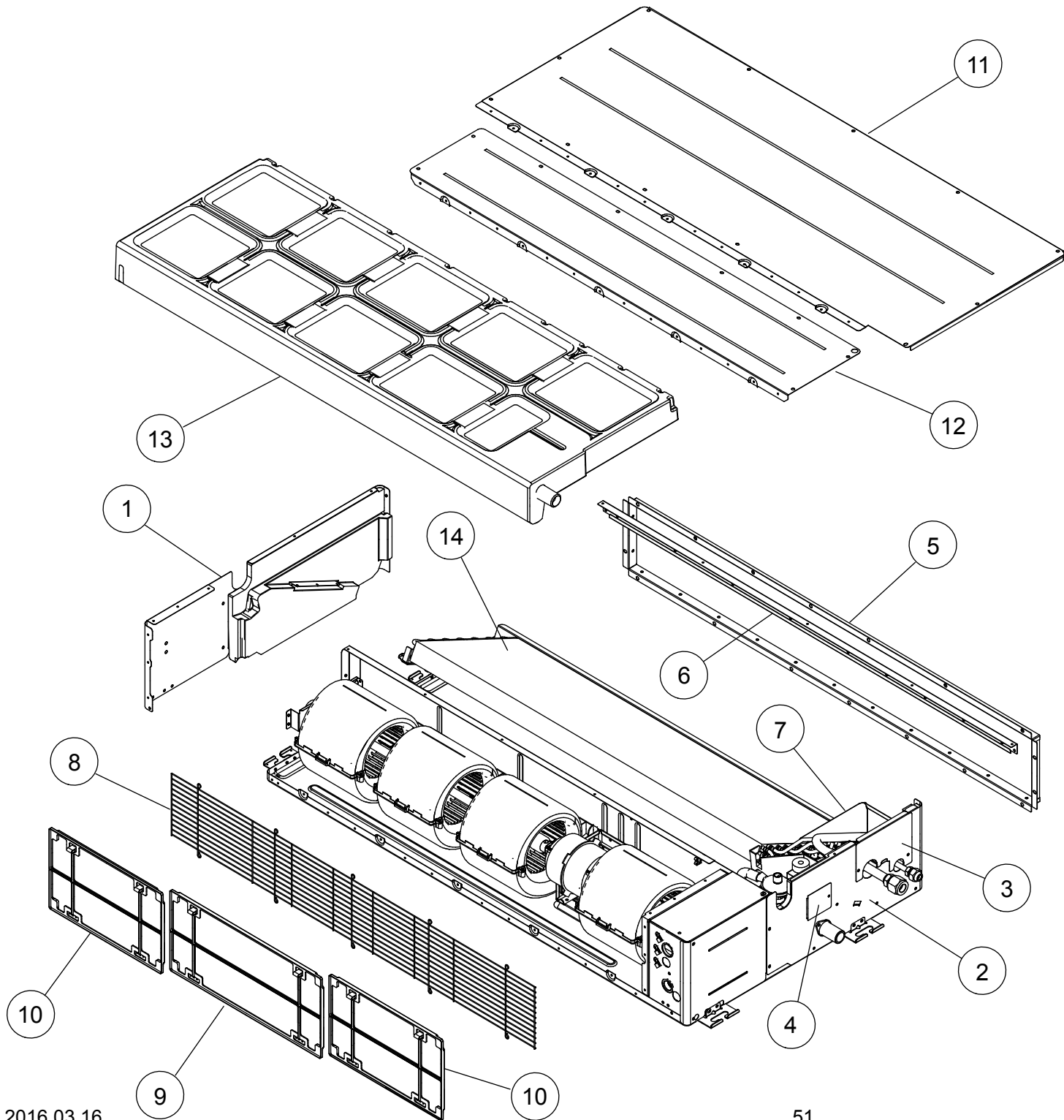
Ref	Description	Parts number
1	Side Panel R Sub Assy	9379906012
2	Side Panel L Sub Assy	9379907019
3	Pipe Panel Sub Assy	9379900003
4	Panel (Window) Sub Assy	9379915007
5	Outlet Frame Assy	9380042013
6	Front Panel (3 Fan)	9380595007
7	Valve Cover Sub Assy	9379576017
8	Fan Guard (3 Fan)	9380590002
9	Air Filter	9379575003
10	Main Panel (3 Fan)	9380603016
11	Cabinet Panel (3 Fan)	9380598008
12	Drain Pan Sub Assy	9379914055
13	Evaporator Total Assy	9380682066

INDOOR UNIT
SLIM DUCT
ARU18RLF



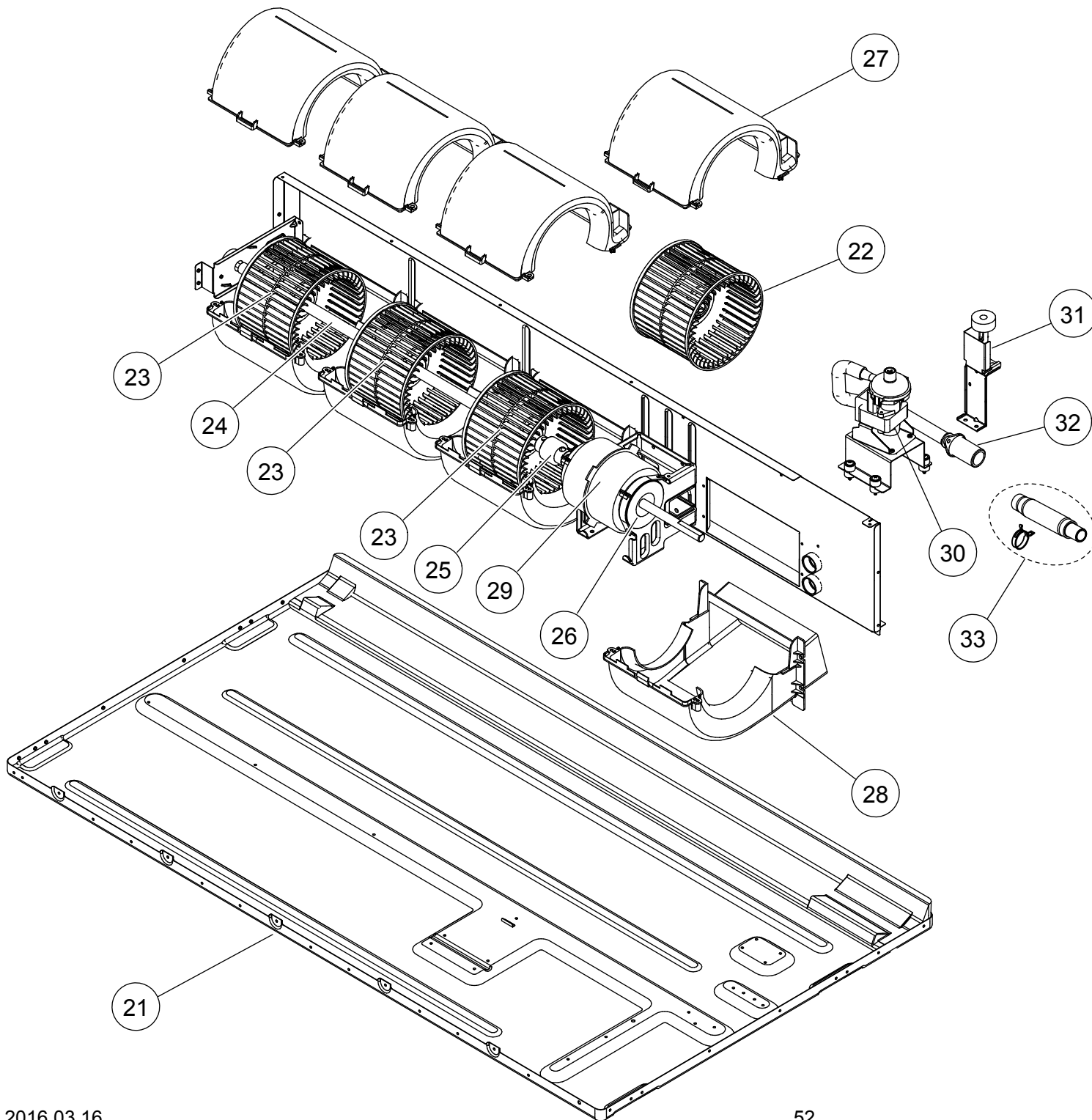
Ref	Description	Parts number
21	Top Panel Sub Assy	9379908047
22	Sirroco Fan Assy	9379570022
23	Sirroco Fan Assy	9379570039
24	Shaft	9381053001
25	Joint Assy	9378038011
26	Rubber (Vibration Proof)	9379644006
27	Casing B	9379572019
28	Casing U	9379571012
29	Fan Motor Assy	9603284015
30	Drain Pump Sub Assy	9379914055
31	Float Switch Sub Assy	9378593022
32	Drain Hose Assy	9379913003
33	Hose Sub Assy	9378450141

INDOOR UNIT
SLIM DUCT
ARU24RLF



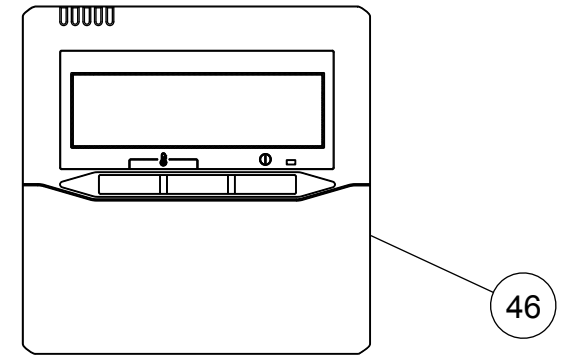
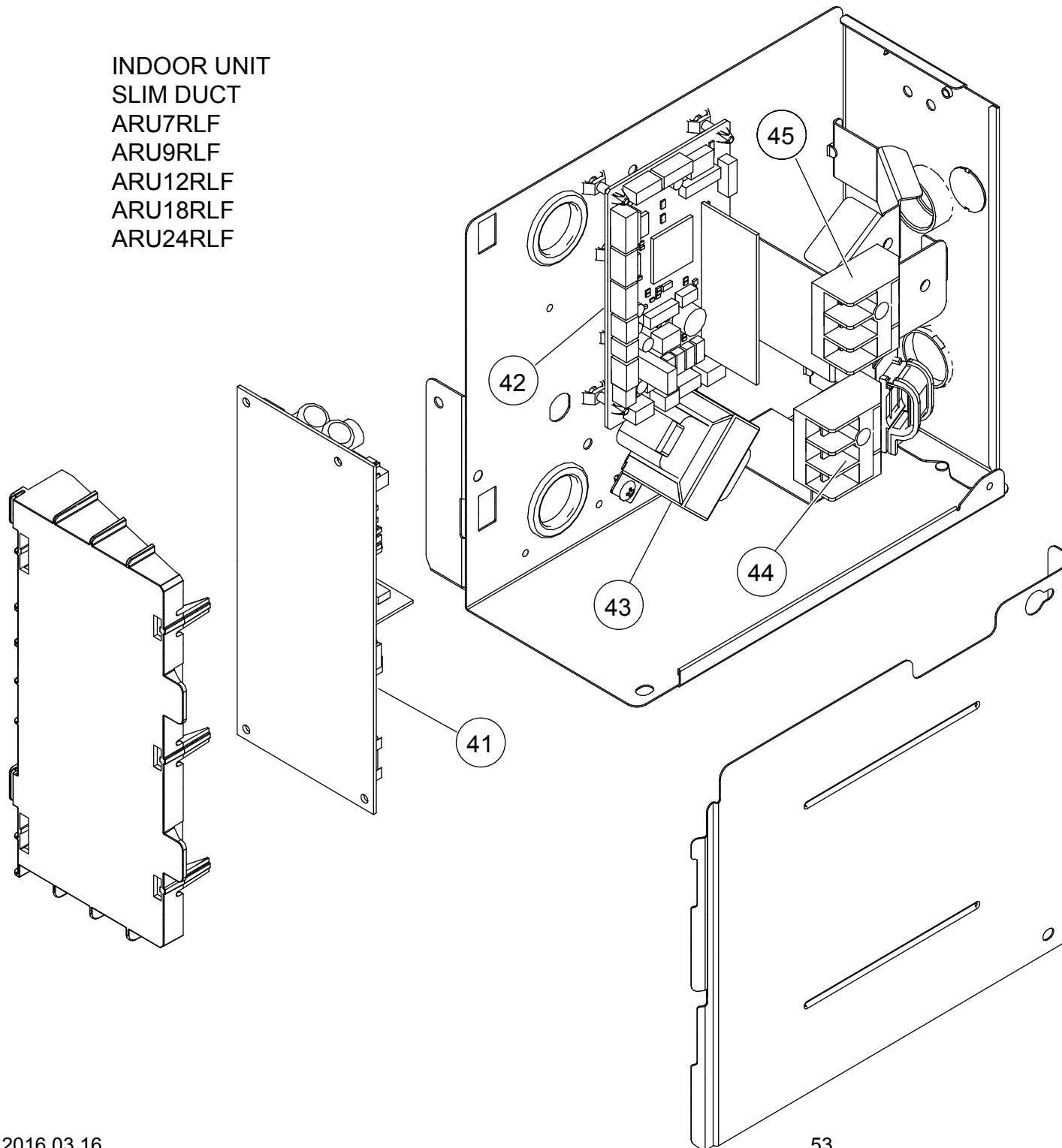
Ref	Description	Parts number
1	Side Panel R Sub Assy	9379906012
2	Side Panel L Sub Assy	9379907019
3	Pipe Panel Sub Assy	9379900003
4	Panel (Window) Sub Assy	9379915007
5	Outlet Frame Assy	9380042020
6	Front Panel (4 Fan)	9380596004
7	Valve Cover Sub Assy	9379576017
8	Fan Guard (4 Fan)	9380591009
9	Air Filter	9379575003
10	Air Filter	9379574006
11	Main Panel (4 Fan)	9380604013
12	Cabinet Panel (4 Fan)	9380599005
13	Drain Pan Sub Assy	9379901185
14	Evaporator Total Assy	9380682073

INDOOR UNIT
SLIM DUCT
ARU24RLF



Ref.	Description	Parts number
21	Top Panel Sub Assy	9379908054
22	Sirroco Fan Assy	9379570022
23	Sirroco Fan Assy	9379570039
24	Shaft Assy	9381052011
25	Joint Assy	9378038011
26	Rubber (Vibration Proof)	9379644006
27	Casing B	9379572019
28	Casing U	9379571012
29	Fan Motor Assy	9603284015
30	Pump Assy	9900472054
31	Float Switch Sub Assy	9378593022
32	Drain Hose Assy	9379913003
33	Hose Sub Assy	9378450141

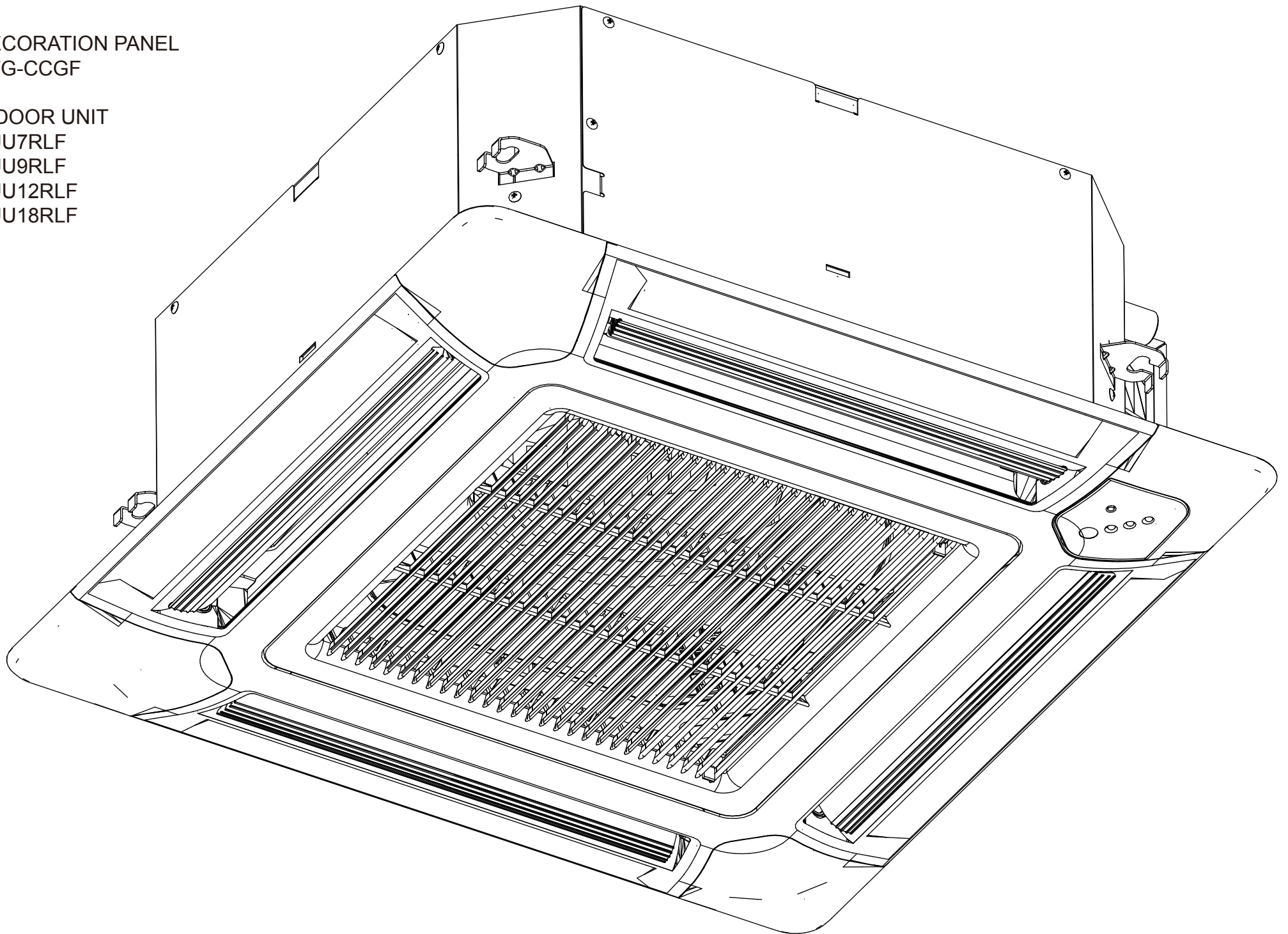
INDOOR UNIT
 SLIM DUCT
 ARU7RLF
 ARU9RLF
 ARU12RLF
 ARU18RLF
 ARU24RLF

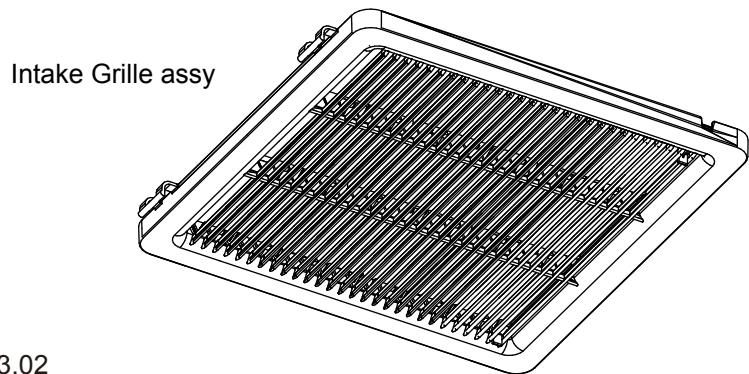
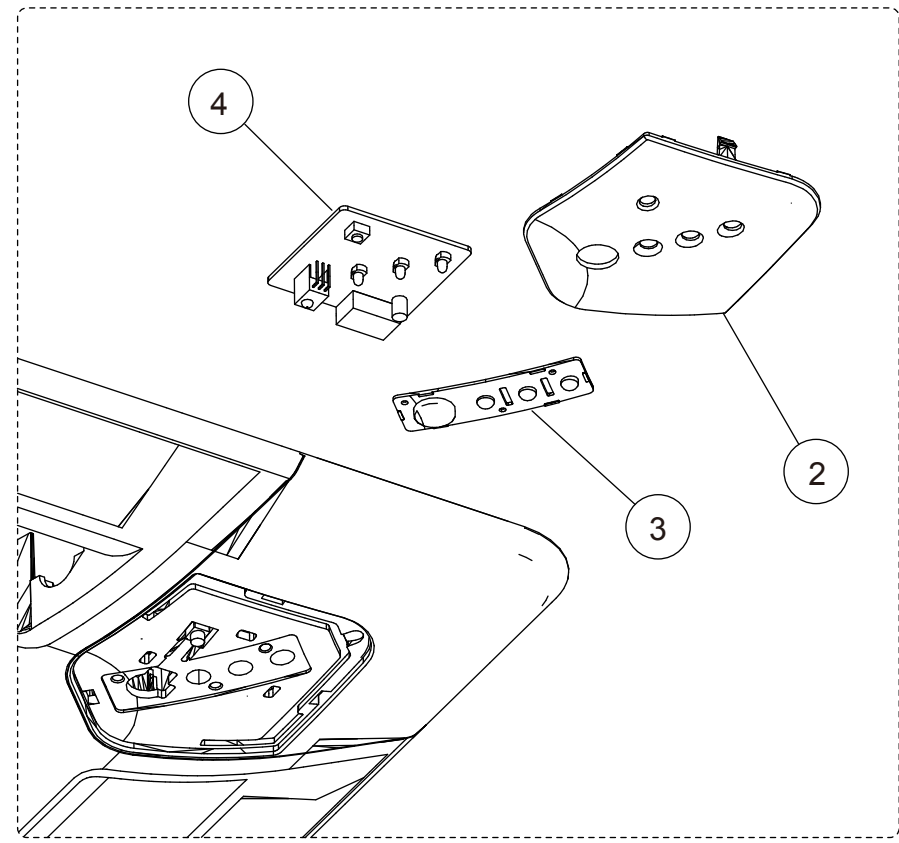
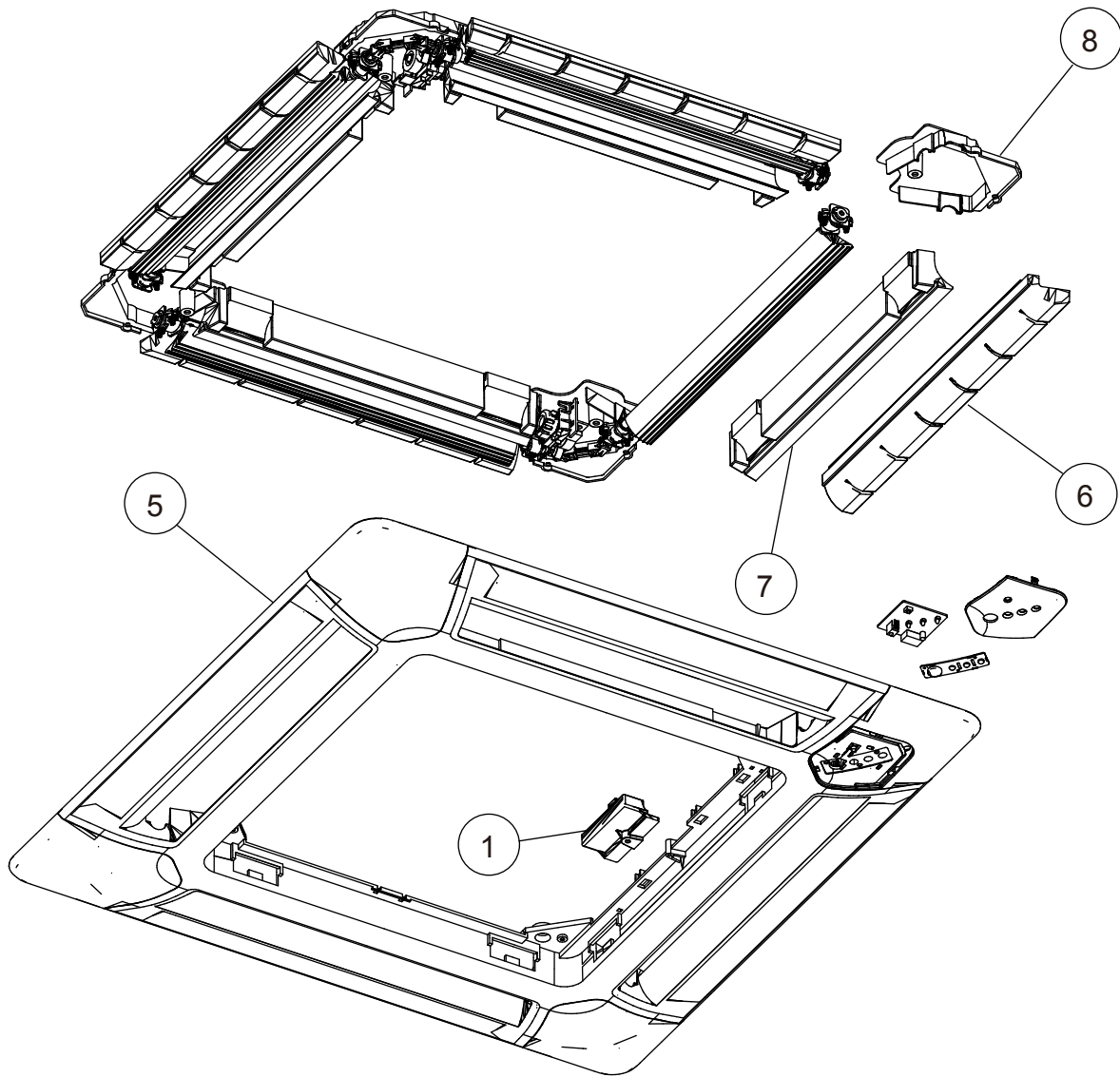


Ref	Description	Parts number
41	Power Supply PCB	9707398243
42	Main PCB (ARU7RLF)	9709928059
42	Main PCB (ARU9RLF)	9709928066
42	Main PCB (ARU12RLF)	9709928073
42	Main PCB (ARU18RLF)	9709928080
42	Main PCB (ARU24RLF)	9709928097
43	Reactor Assy	9707457018
44	Terminal 3P	9306489045
45	Terminal 3P (Wired Remote)	9703345012
46	Wired Remote Control	9318593006
--	Room Thermistor	9900653019
--	Pipe Thermistor	9900881016

DECORATION PANEL
UTG-CCGF

INDOOR UNIT
AUU7RLF
AUU9RLF
AUU12RLF
AUU18RLF

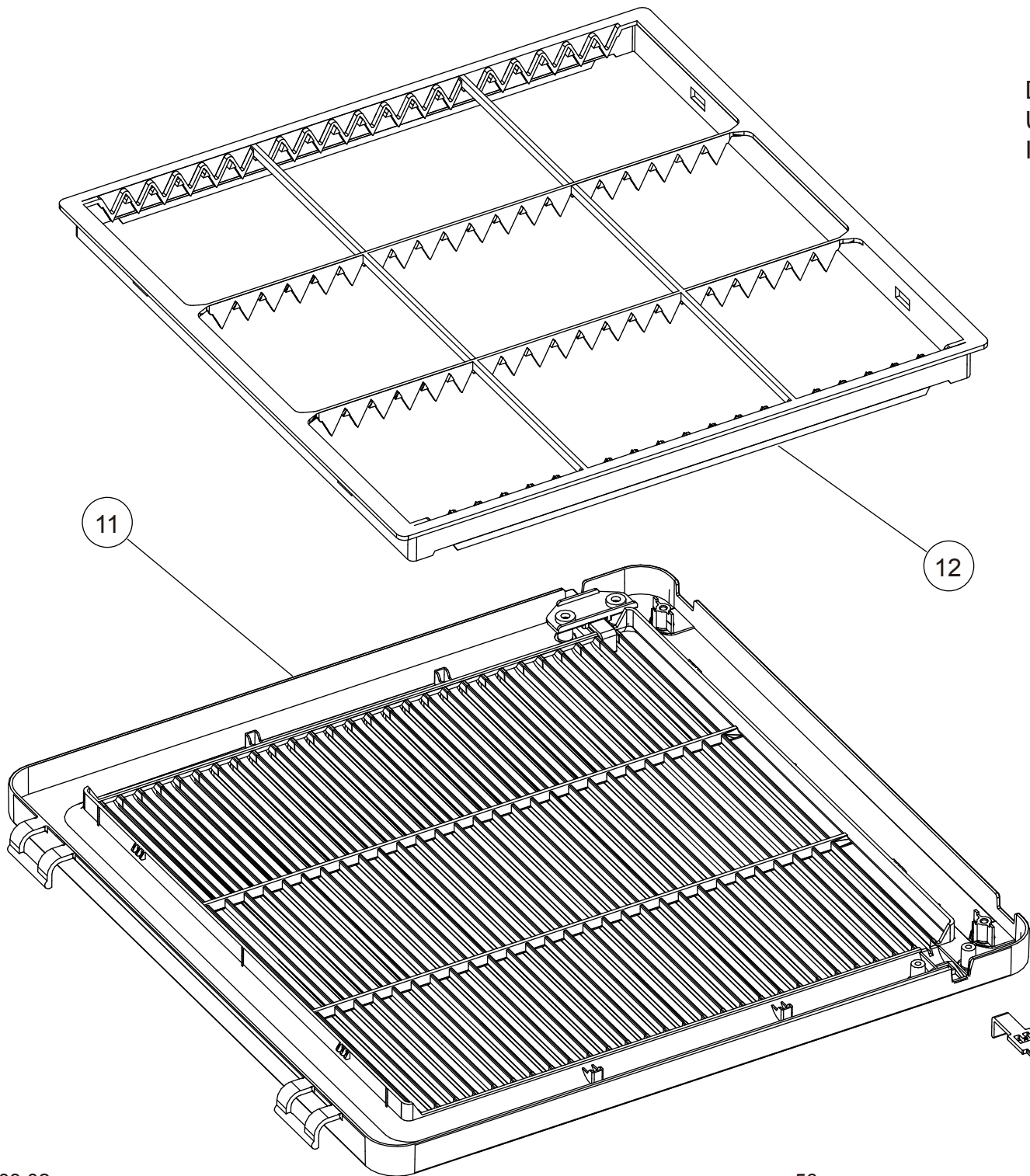




DECORATION PANEL
UTG-CCGF

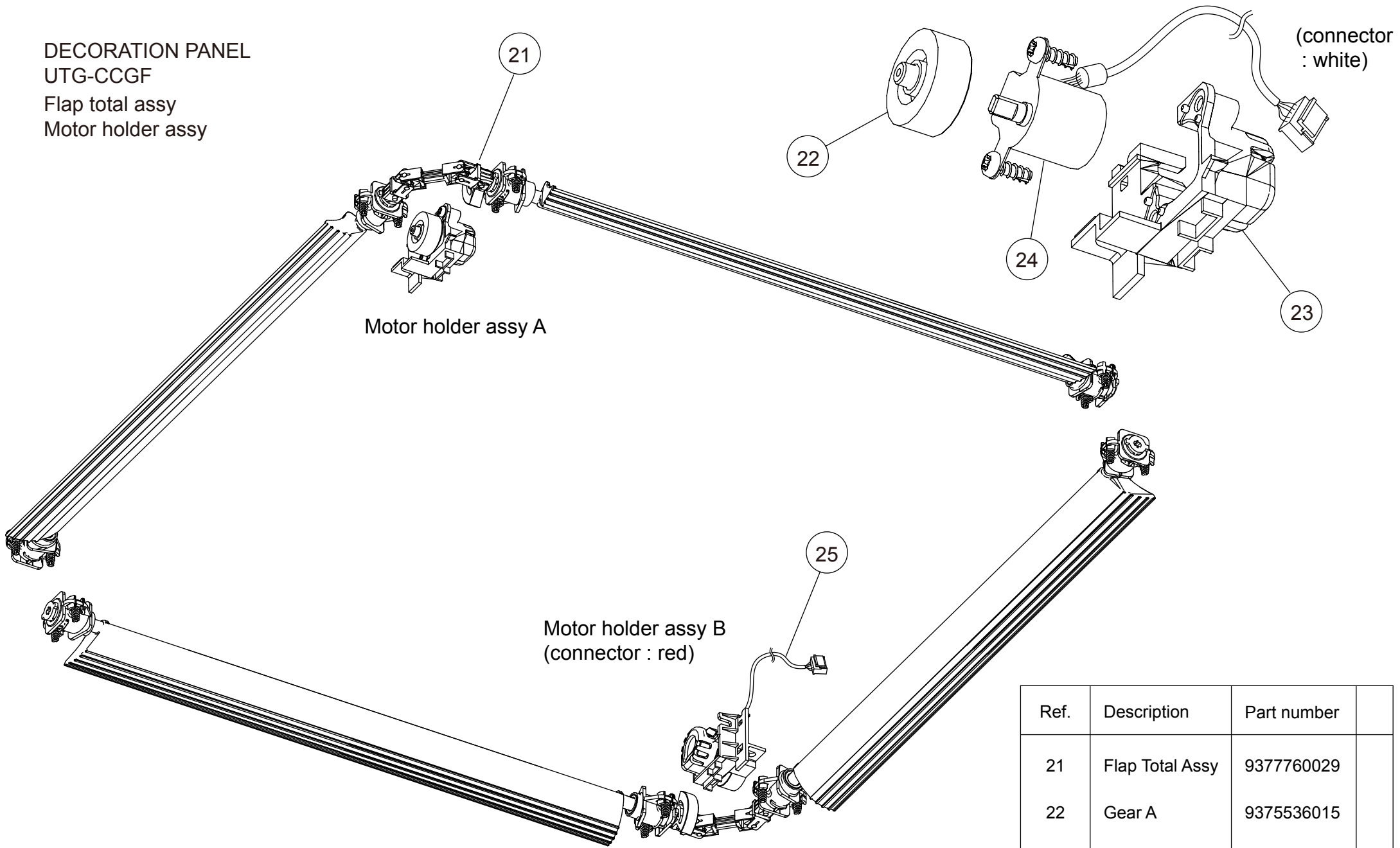
Ref.	Description	Part number
1	Connector Cover	9375549015
2	Display Panel	9375529123
3	Receiver Window	9375547011
4	Indicator PCB	9707371031
5	Decoration Panel	9375525033
6	Panel Insulation A	9375526016
7	Panel Insulation B	9375527013
8	Panel Cover	9375530013

DECORATION PANEL
 UTG-CCGF
 Intake grille assy



Ref.	Description	Part number	
11	Intake Grille	9375531027	
12	Long Life Filter	9375533014	
13	Hook Bracket	9375546014	
14	Grille Hook	9375532024	

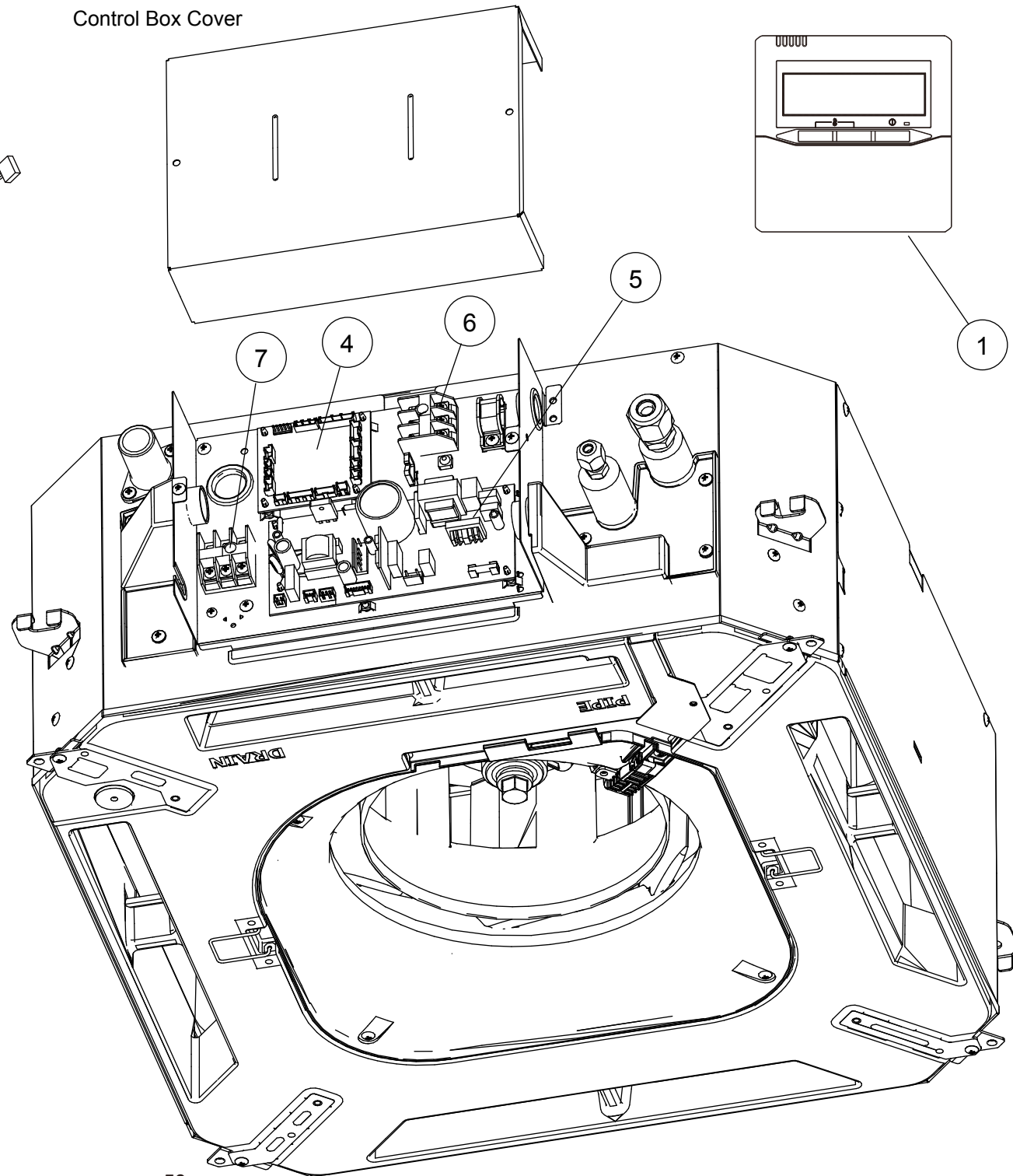
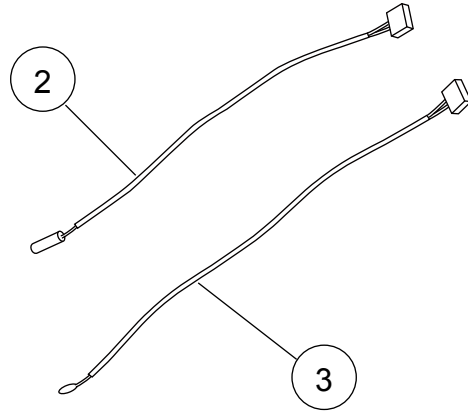
DECORATION PANEL
 UTG-CCGF
 Flap total assy
 Motor holder assy



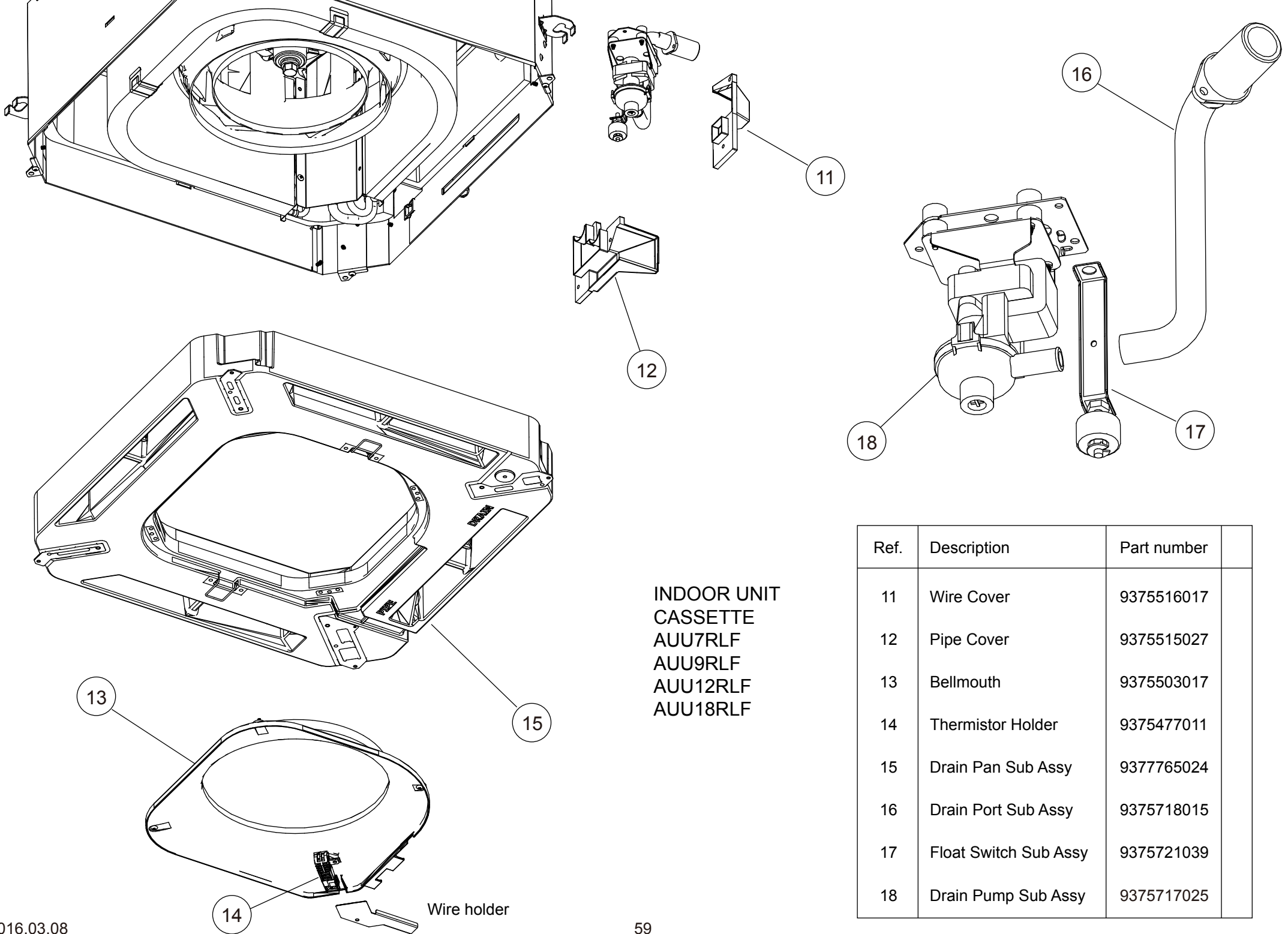
Ref.	Description	Part number
21	Flap Total Assy	9377760029
22	Gear A	9375536015
23	Motor Holder	9375535018
24	Step Motor	9900139070
25	Step Motor	9900139087

INDOOR UNIT
CASSETTE
AUU7RLF
AUU9RLF
AUU12RLF
AUU18RLF

Control Box Cover

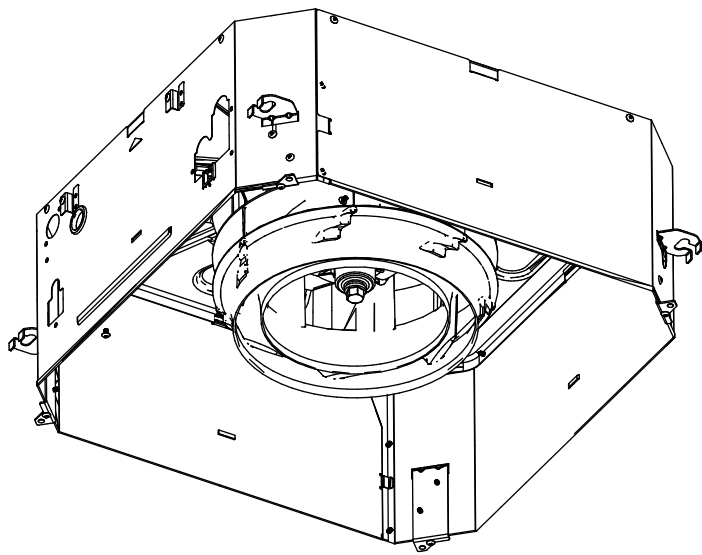


Ref.	Description	Part number
1	Remote Control	9318593006
2	Pipe Thermistor	9900814007
3	Room Thermistor	9900826000
4	Main PCB (AUU7RLF)	9709928011
4	Main PCB (AUU9RLF)	9709928028
4	Main PCB (AUU12RLF)	9709928035
4	Main PCB (AUU18RLF)	9709928042
5	Power Supply PCB	9707398236
6	Terminal	9306489045
7	Terminal	9703345012

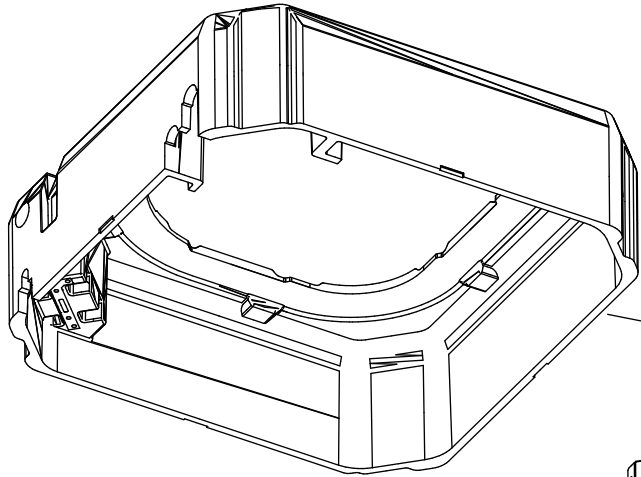


INDOOR UNIT
CASSETTE
AUU7RLF
AUU9RLF
AUU12RLF
AUU18RLF

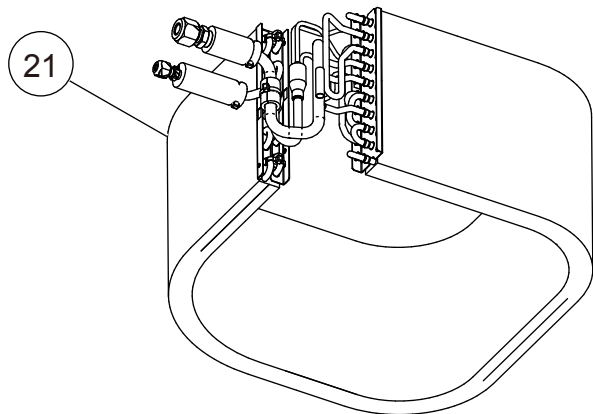
Ref.	Description	Part number
11	Wire Cover	9375516017
12	Pipe Cover	9375515027
13	Bellmouth	9375503017
14	Thermistor Holder	9375477011
15	Drain Pan Sub Assy	9377765024
16	Drain Port Sub Assy	9375718015
17	Float Switch Sub Assy	9375721039
18	Drain Pump Sub Assy	9375717025



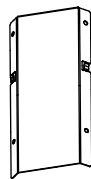
INDOOR UNIT
CASSETTE
AUU7RLF
AUU9LF
AUU12RLF
AUU18RLF



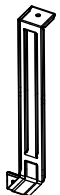
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21



Separate wall

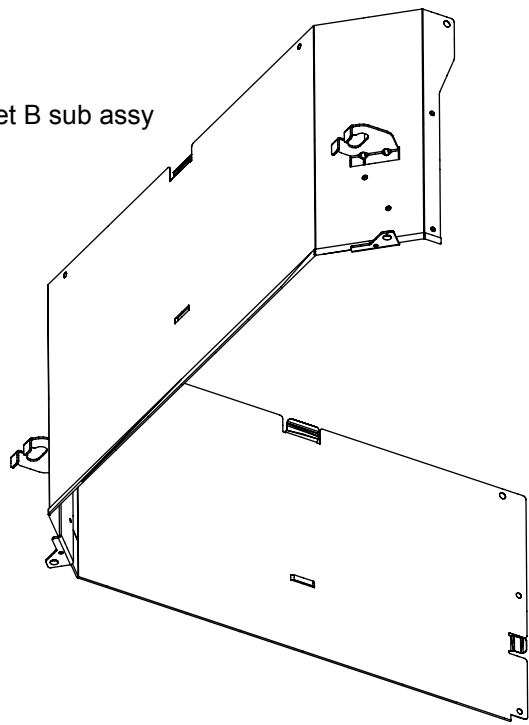


Evaporator holder 2 row

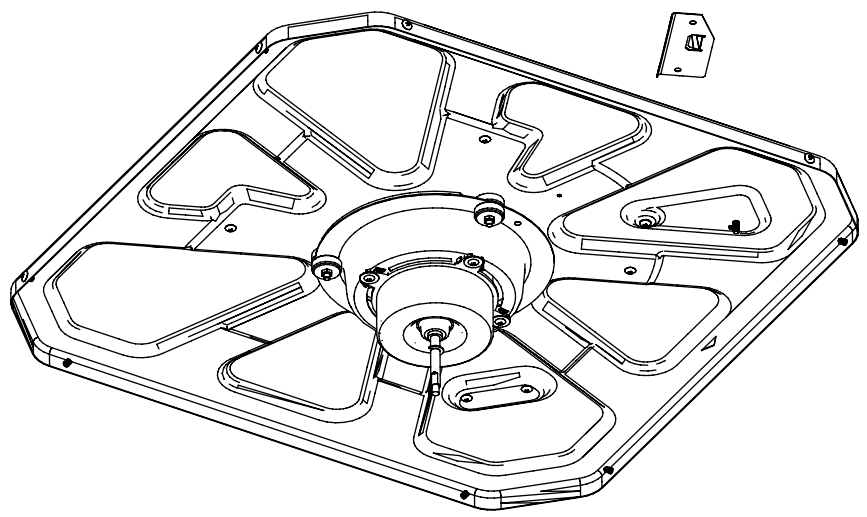
Ref.	Description	Part number
21	Evaporator Total Assy (AUU7)	9377914040
21	Evaporator Total Assy (9, 12)	9377914033
21	Evaporator Total Assy (AUU18)	9377914026
22	Insulation Box Sub Assy	9377764065

INDOOR UNIT
CASSETTE
AUU7RLF
AUU9RLF
AUU12RLF
AUU18RLF

Cabinet B sub assy

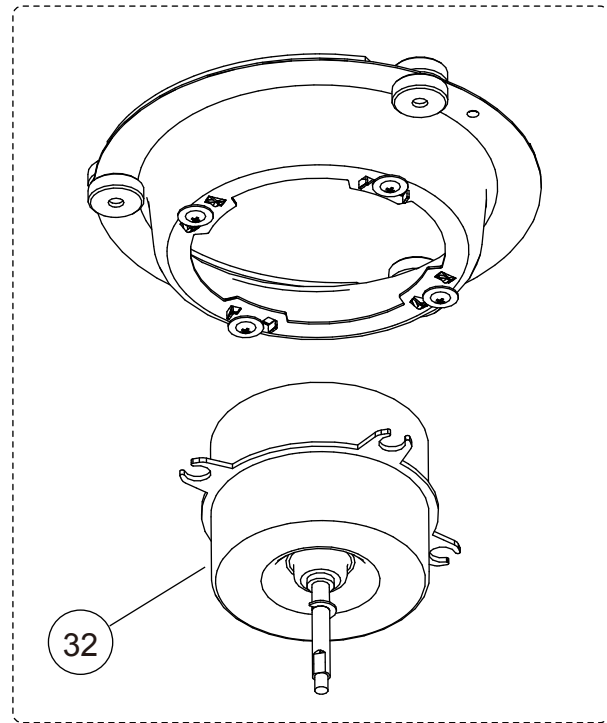
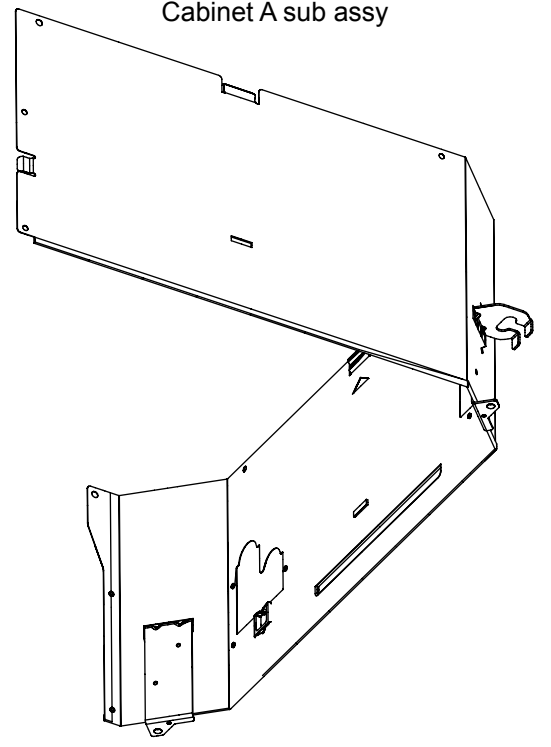


Top plate assy



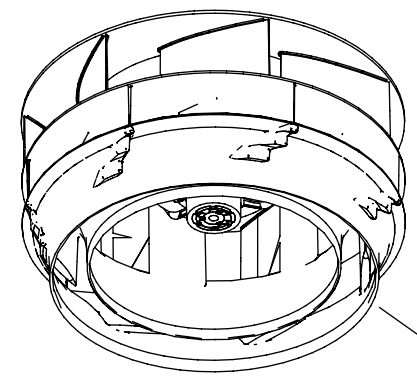
Motor wire holder

Cabinet A sub assy



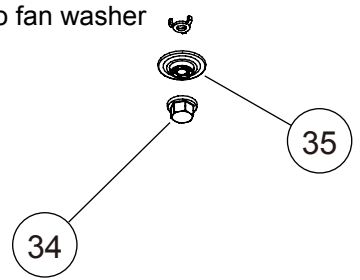
31

32



33

Turbo fan washer

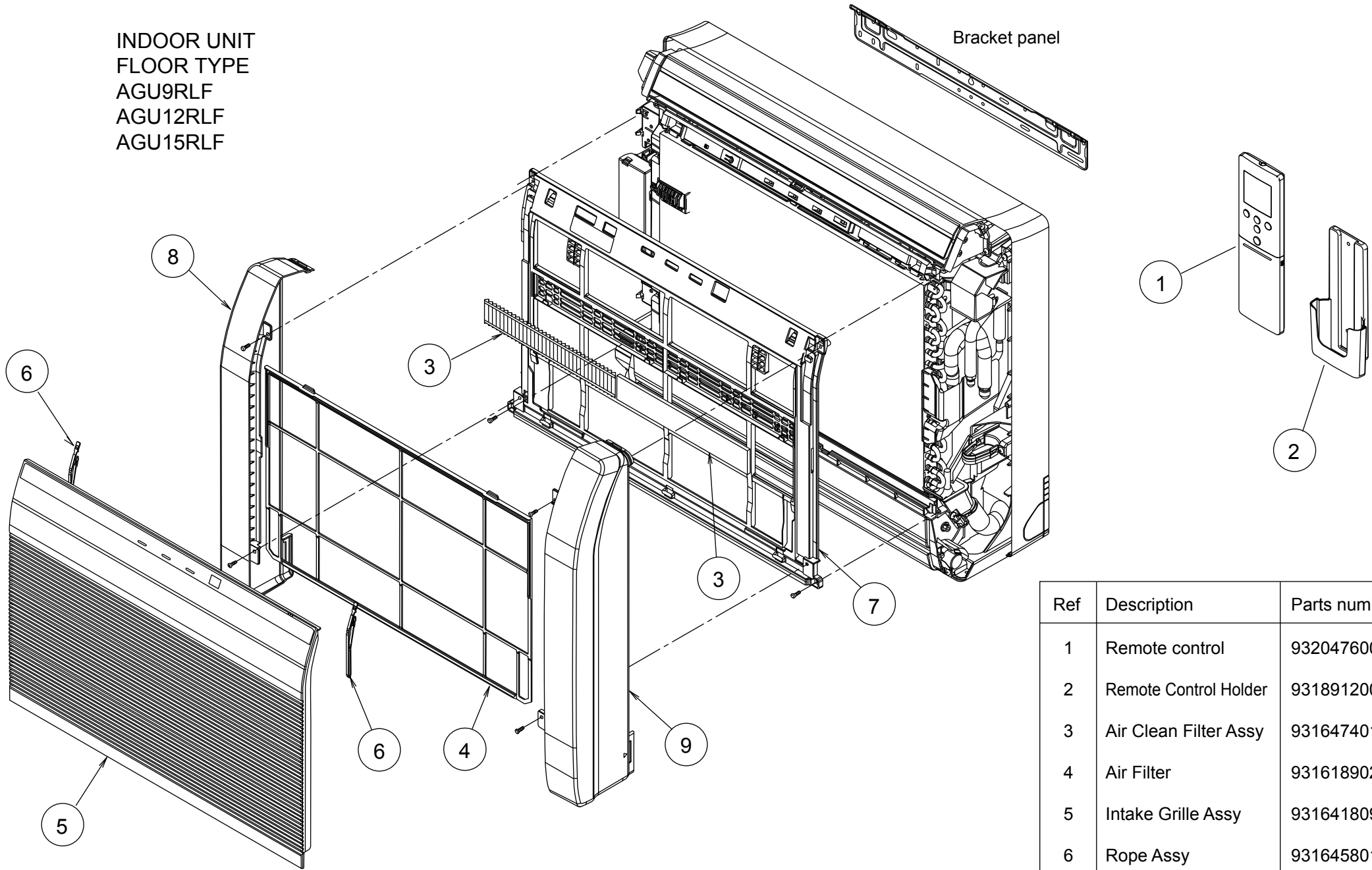


34

35

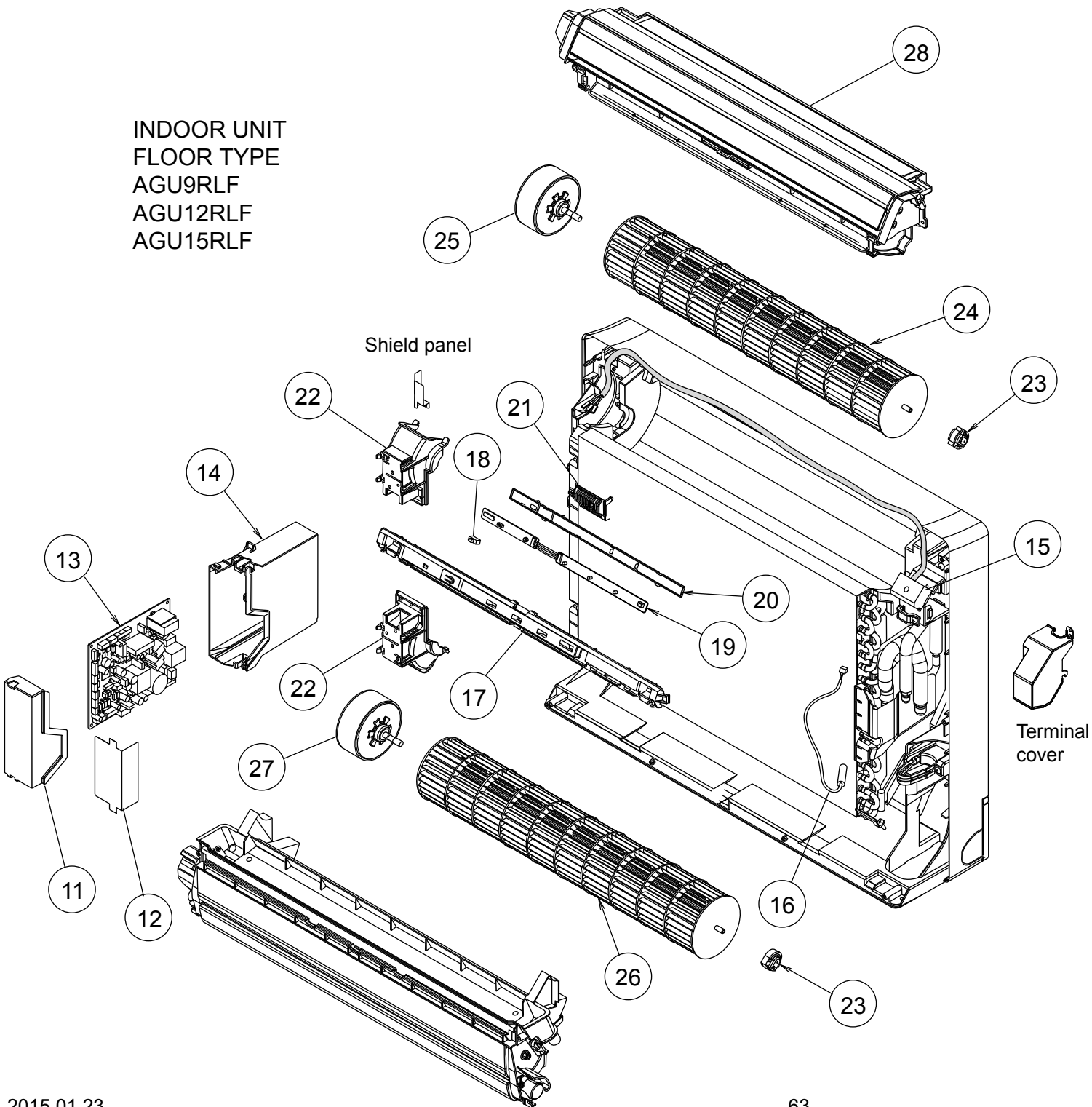
Ref.	Description	Part number
31	Fan Motor Sub Assy	9375719029
32	Fan Motor	9602870004
33	2 Stage Turbo Fan Assy	9375480011
34	Shaft Cap	9377807014
35	Washer Cover	9377811011

INDOOR UNIT
 FLOOR TYPE
 AGU9RLF
 AGU12RLF
 AGU15RLF



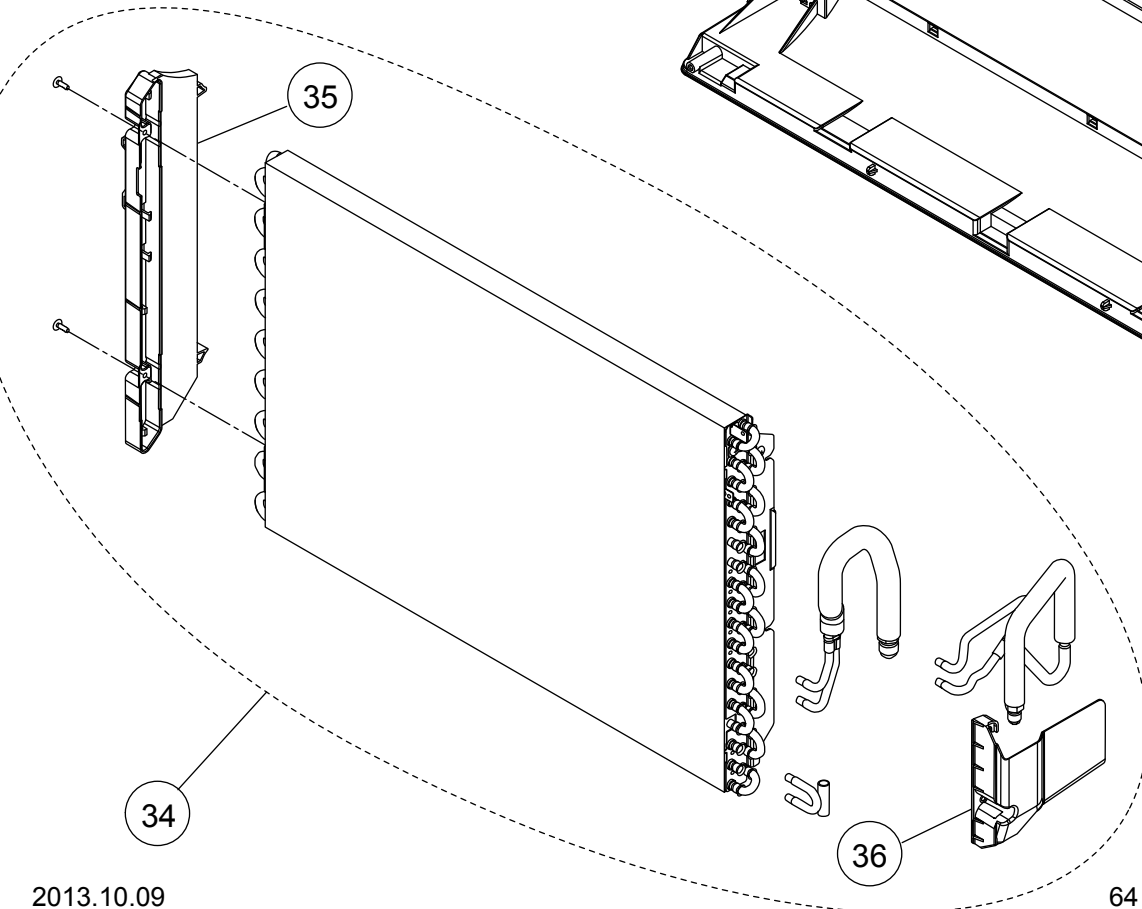
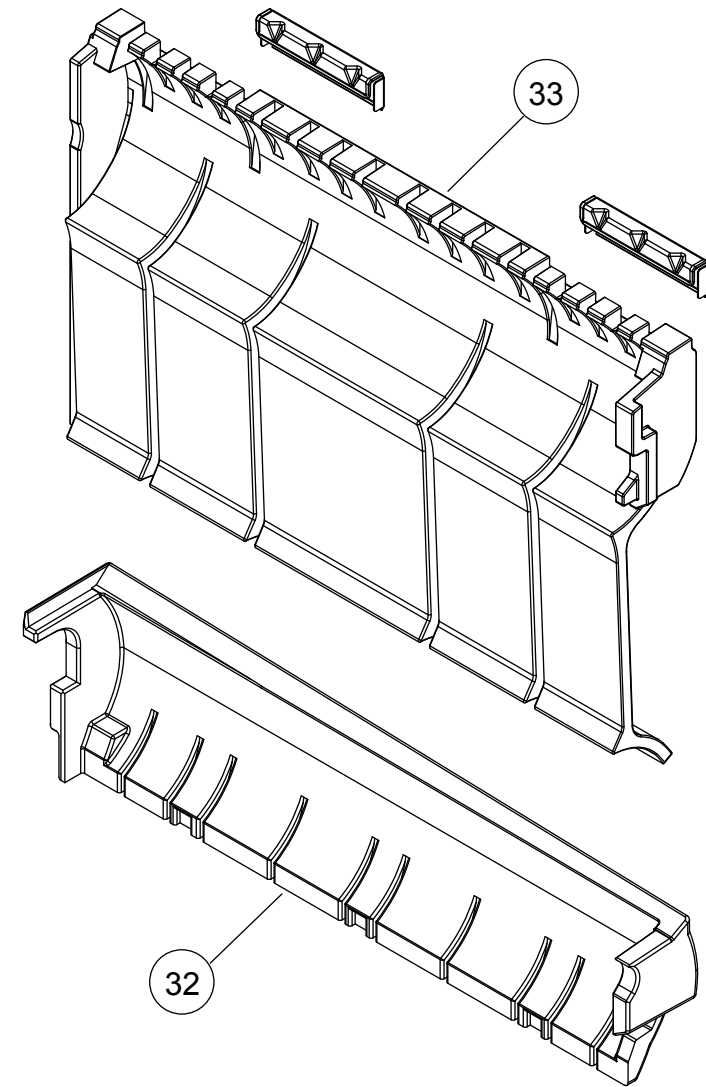
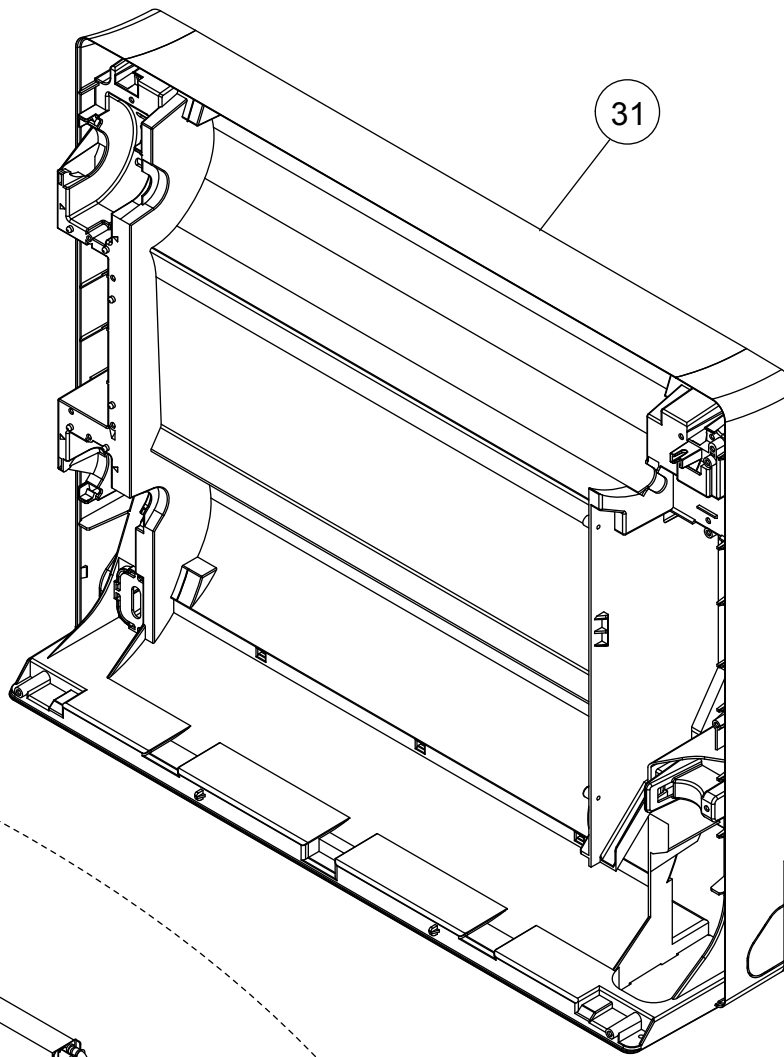
Ref	Description	Parts number
1	Remote control	9320476007
2	Remote Control Holder	9318912005
3	Air Clean Filter Assy	9316474017
4	Air Filter	9316189027
5	Intake Grille Assy	9316418097
6	Rope Assy	9316458017
7	Front Panel	9316185012
8	Front Panel L	9316187016
9	Front Panel R	9316186019

INDOOR UNIT
FLOOR TYPE
AGU9RLF
AGU12RLF
AGU15RLF



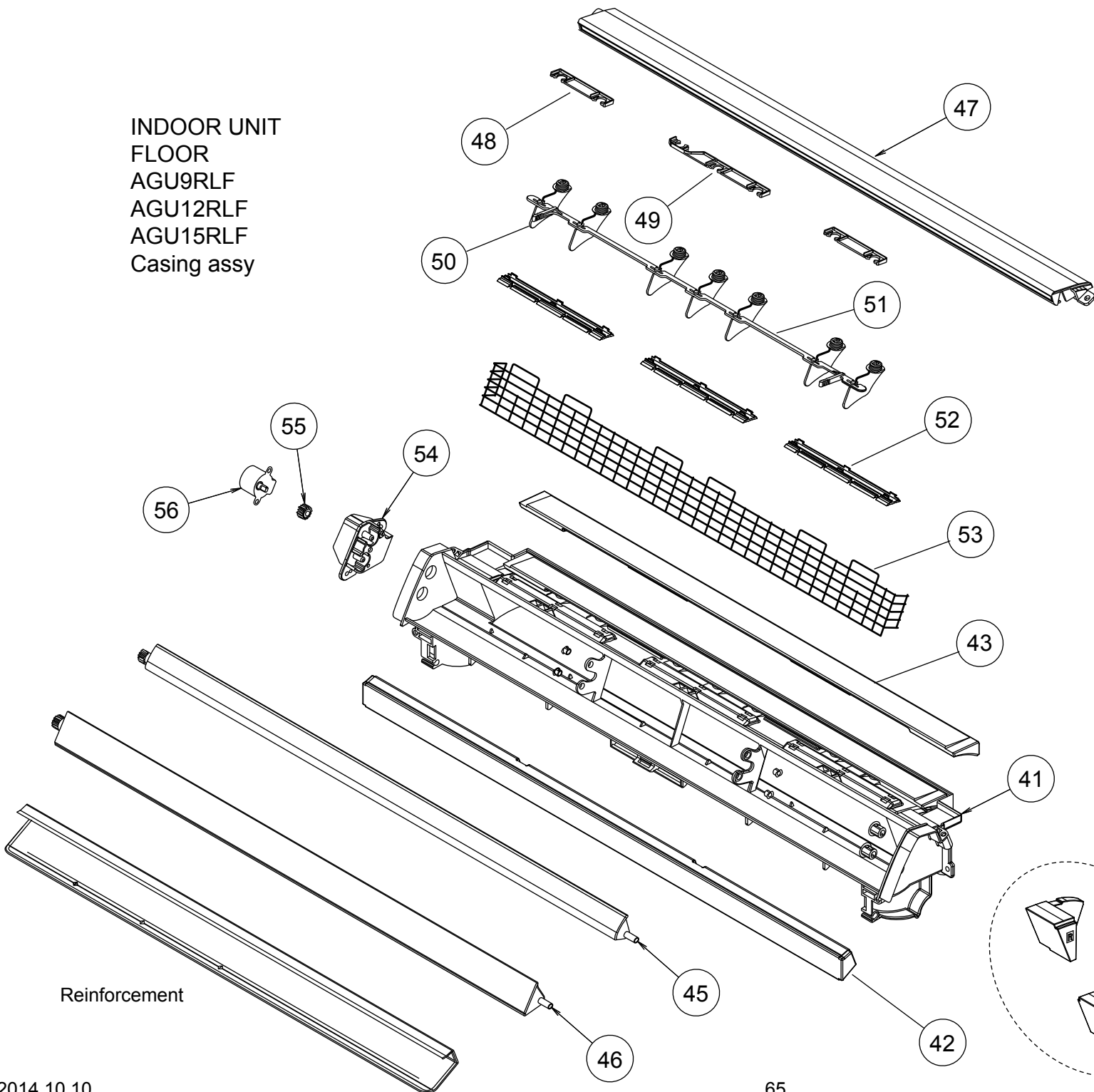
Ref	Description	Parts number
11	Control Cover	9316201026
12	Control Inner Cover	9316487017
13	Main PCB (AGU9RLF)	9708532165
13	Main PCB (AGU12RLF)	9708532172
13	Main PCB (AGU15RLF)	9708532189
14	Control Box	9316200029
15	Terminal	9900385026
16	Pipe Thermistor	9900425012
17	Display Case	9316194014
18	Slide Switch Cover	9316267015
19	Display PCB	9707571042
20	Display Cover	9316191013
21	Thermistor Holder	9316192010
22	Motor Holder	9316195011
23	Bearing C Assy	9306628017
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

Ref	Description	Parts number
31	Base	9316193017
32	Base Cover A	9316197015
33	Base Cover B	9316373013
34	Evaporator Total Assy (9, 12)	9316091030
34	Evaporator Total Assy (15)	9316091047
35	Evaporator Holder	9316199019
36	Water Seal	9316271012

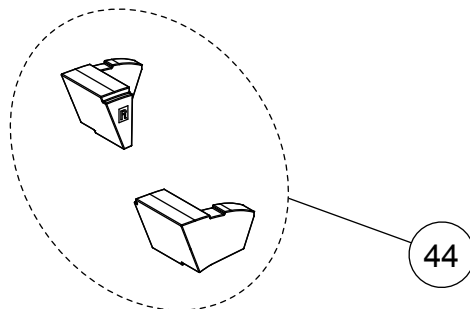


INDOOR UNIT
 FLOOR
 AGU9RLF
 AGU12RLF
 AGU15RLF

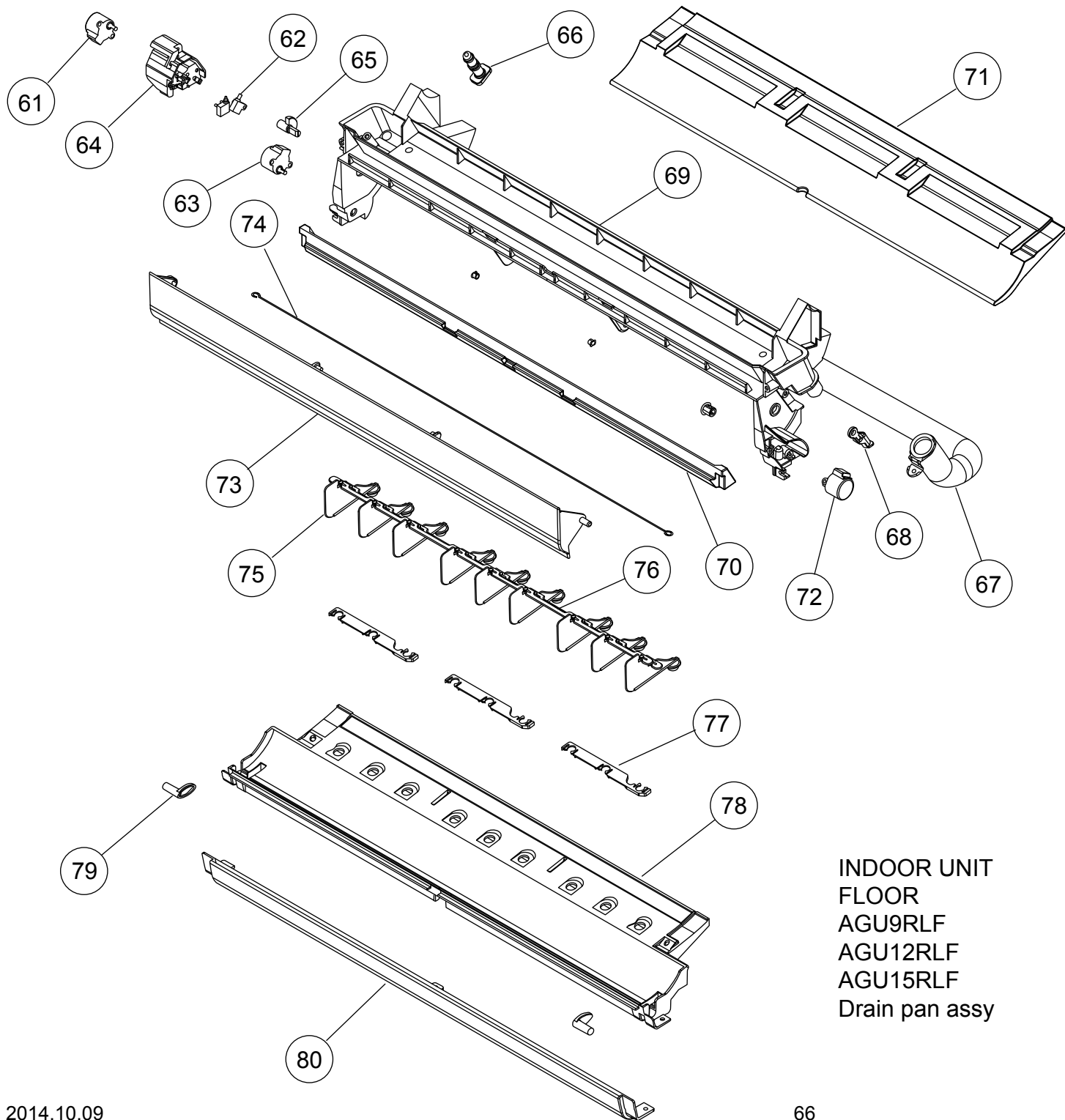
INDOOR UNIT
FLOOR
AGU9RLF
AGU12RLF
AGU15RLF
Casing assy



Ref	Description	Parts number
41	Casing	9316204010
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



Reinforcement

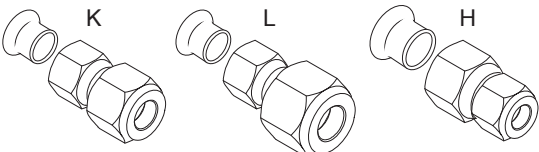
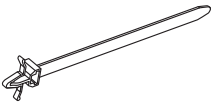



INDOOR UNIT
 FLOOR
 AGU9RLF
 AGU12RLF
 AGU15RLF
 Drain pan assy


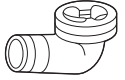
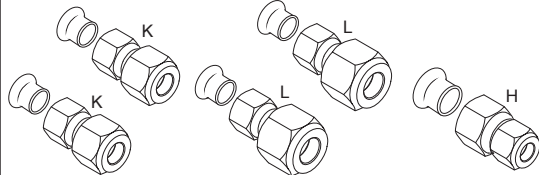
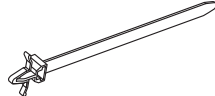

Ref	Description	Parts number
61	Motor Step (Damper)	9900384050
62	Micro Switch (Limit Switch)	9900424015
63	Motor Step (Damper Lock Left)	9900384067
64	Limit Switch Cover	9316217010
65	Key Top	9316218017
66	Drain Cap	9316177017
67	Drain Hose Assy	9314147029
68	Drain Holder	9316384019
69	Drain Pan U	9316214019
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

ACCESSORIES

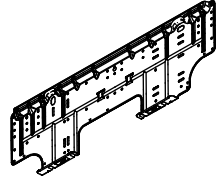
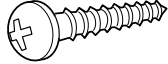
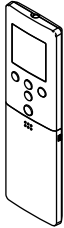
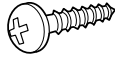

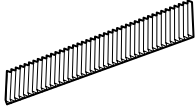
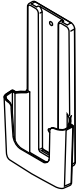
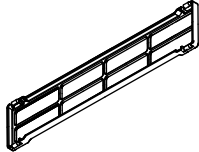
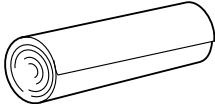
OUTDOOR UNIT AOU36RLXFZH

Name and shape	Q'ty	Application
Adapter [in. (mm)] K: [1/2 (12.70) → 3/8 (9.52)] × 1 L: [1/2 (12.70) → 5/8 (15.88)] × 1 H: [3/8 (9.52) → 1/2 (12.70)] × 1 	1 set	Adapter is necessary in the connection of the indoor unit. For more information, refer to the installation manual included with the indoor unit.
Cable tie with clip 	Large: 2	For binding wire with connector (For conduit plate)
	Small: 2	For binding wire with connector
Cable tie 	1	For binding wire with connector

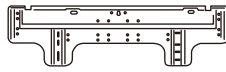

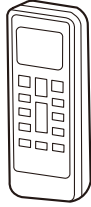
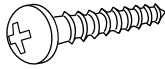


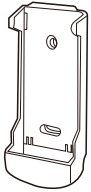
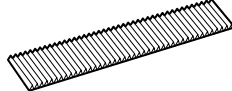
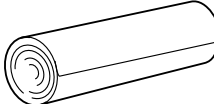
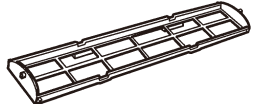
OUTDOOR UNIT AOU45RLXFZ

Name and shape	Q'ty	Application
Drain cap 	7	For outdoor unit drain piping work
Drain pipe 	1	
Adapter [in. (mm)] K: [1/2 (12.70) → 3/8 (9.52)] × 2 L: [1/2 (12.70) → 5/8 (15.88)] × 2 H: [3/8 (9.52) → 1/2 (12.70)] × 1 	1 set	Adapter is necessary in the connection of the indoor unit. For more information, refer to the installation manual included with the indoor unit.
Cable tie with clip 	Large: 2	For binding wire with connector (For conduit plate)
	Small: 2	For binding wire with connector
Cable tie 	1	For binding wire with connector

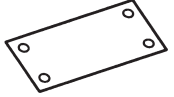
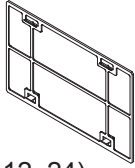

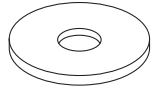
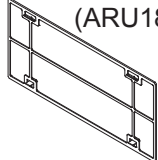

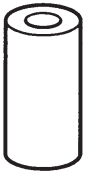
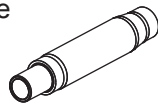





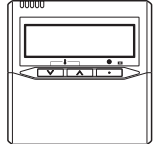
INDOOR UNIT
 COMPACT WALL MOUNTED
 ASU7RLF1, ASU9RLF1, ASU12RLF1, ASU15RLF1

Parts	Q'ty	Parts	Q'ty
Bracket Panel 	1	Tapping screw (M4 x 25 mm) 	5
Remote control 	1	Tapping screw (M3 x 12 mm) 	2
Battery 	2	Air cleaning filter 	2
Remote control holder 	1	Filter holder 	2
Cloth tape 	1		


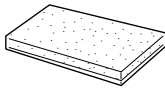

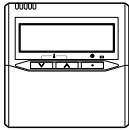




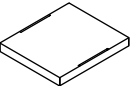
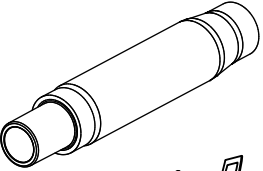

INDOOR UNIT
 WALL MOUNTED
 ASU18RLF, ASU24RLF

Parts	Q'ty	Parts	Q'ty
Wall hook bracket 	1	Drain hose insulation 	1
Remote control 	1	Tapping screw (big) 	8
Battery 	2	Tapping screw (small) 	2
Remote control holder 	1	Air cleaning filter 	2
Cloth tape 	1	Air cleaning filter frame 	2

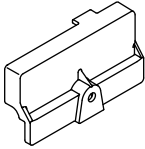
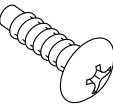
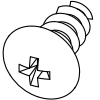
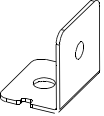

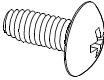
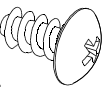
INDOOR UNIT
 SLIM DUCT
 ARU7RLF, ARU9RLF, ARU12RLF ARU18RLF, ARU24RLF

Parts	Q'ty	Parts	Q'ty	Parts	Q'ty
Installation template  For positioning an indoor unit	1	Filter (Small)  (ARU7, 9L,12, 24)	2	Remote control cable 	1
Washer  For installing indoor unit	8	Filter (Big)  (ARU18RLF) (ARU24RLF)	2 1	Screw (M4 x 16 mm)  For installing a remote control	2
Coupler heat insulation (large) For indoor side pipe joint (large pipe) 	1	Drain hose  For installing drain pipe VP25 (O.D.32, I.D.26)	1		
Coupler heat insulation (small) For indoor side pipe joint (small pipe) 	1	Hose band  For installing drain hose	1		
Binder (small)  For power supply and transmission and remote control cable binding.	3	Drain hose insulation B  Insulates the drain hose	1		
Binder (large)  For fixing the coupler heat insulation.	4	Remote control 	1		

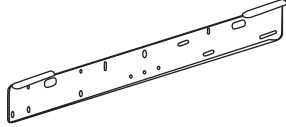

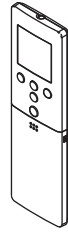


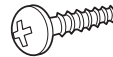
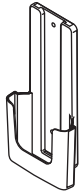

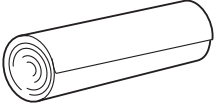
**INDOOR UNIT
COMPACT CASSETTE
AUU7RLF, AUU9RLF, AUU12RLF, AUU18RLF**

Parts	Q'ty	Parts	Q'ty
Coupler heat insulation (Large)  For indoor side pipe joint (Gas pipe)	1	Drain hose insulation  For installing drain pipe	1
Coupler heat insulation (Small)  For indoor side pipe joint (Liquid pipe)	1	Remote control  	1
Special nut A (Large flange)  For installing indoor unit	4	Remote control cable  For connecting a remote control	1
Special nut B (Small flange)  For installing indoor unit	4	Tapping screw (M4 x 16 mm)  For installing a wired remote control	2
Template (carton top)  For ceiling openings cutting Also used as packing	1		
Drain hose  	1		
Hose band 	1		

**DECORATION PANEL
UTG-CCGF**

Parts	Q'ty	Parts	Q'ty
Connector cover  For covering connector	1		
Tapping screw (M5 x 12 mm)  For mounting decoration panel	4		
Tapping Screw (M4 x 12 mm)  For mounting connector cover	1		
L angle  For mounting a hook wire to a decoration panel	2		
Hook wire  For suspending a decoration panel	2		
Screw [pitch small] (M4 x 10 mm)  For mounting a hook wire (for metals)	2		
Screw [pitch large] (M4 x 10 mm)  For mounting an L angle and hook wire (for resins)	4		

INDOOR UNIT
 FLOOR
 AGU9RLF, AGU12RLF, AGU15RLF

Parts	Q'ty	Parts	Q'ty
Wall hook bracket 	1	Cable tie 	1
Remote control 	1	Tapping screw (M4 x 25 mm) 	9
Battery 	2	Tapping screw (M3 x 12 mm) 	2
Remote control holder 	1	Air cleaning filter 	2
Cloth tape 	1		

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