

INVERTER
TWO ROOM MULTI
AIR CONDITIONER

SERVICE MANUAL



CONTENTS

SPECIFICATIONS	1
DIMENSIONS	4
REFRIGERANT SYSTEM DIAGRAM	9
CIRCUIT DIAGRAM	11
OUTDOOR PCB CIRCUIT DIAGRAM ...	14
INDOOR PCB CIRCUIT DIAGRAM	15
ERROR DETECTION	19
PARTS (OUTDOOR UNIT)	21
PARTS (INDOOR UNIT)	25
ACCESSORIES	41

Outdoor unit
AOU18RLXFZH

Indoor unit
ASU7RLF1
ASU9RLF1
ASU12RLF1
AGU9RLF
AGU12RLF
AUU7RLF
AUU9RLF
AUU12RLF
UTG-CCGF
ARU7RLF
ARU9RLF
ARU12RLF

SPECIFICATIONS

OUTDOOR UNIT

ELECTRICAL SPECIFICATIONS

TYPE	Two room multi inverter
MODEL NAME	AOU18RLXFZH
POWER SUPPLY	208 / 230 Volts 60 Hz
COOLING CAPACITY	18,000 Btu
HEATING CAPACITY	22,000 Btu

COMBINATION WITH 2 UNITS OF ASU9RLF1

INPUT WATTS	Cooling	1,330 Watts
	Heating	1,700 Watts
EER	Cooling	13.50 Btu/W
COP	Heating	3.79 W/W
SEER	Cooling	21.5
HSPF	Heating	10.3
RUNNING CURRENT	Cooling	5.8 Amperes
	Heating	7.5 Amperes

COMBINATION WITH 2 UNITS OF ARU9RLF

INPUT WATTS	Cooling	1,450 Watts
	Heating	1,790 Watts
EER	Cooling	12.40 Btu/W
COP	Heating	3.60 W/W
SEER	Cooling	19.0
HSPF	Heating	9.0
RUNNING CURRENT	Cooling	6.4 Amperes
	Heating	7.9 Amperes

FAN MOTOR

DISCRIMINATION	MFE-45VVT
COOLING	660 r.p.m.
HEATING	660 r.p.m.

NOISE LEVEL

COOLING	48 dB
HEATING	50 dB

COMPRESSOR AND REFRIGERANT

COMPRESSOR TYPE		Hermetic type, Inverter, 4 poles, 3-phase, Brushless DC motor, Two cylinder rotary	
DISCRIMINATION		N-SF17ND1A	
WEIGHT (with oil)		23 lbs 6 oz	10.6 kg
PRECHARGED REFRIGERANT		4 lbs 3 oz	1,900 g
REFRIGERANT TYPE		R410A	
FULL CHARGE	Sum of pipe length	98 ft (30 m)	4 lbs 3 oz 1,900 g
		131 ft (40 m)	4 lbs 10 oz 2,100 g
		164 ft (50 m)	5 lbs 1 oz 2,300 g
ADDITIONAL CHARGE		9/32 oz/ft	20 g/m

MEASUREMENT

DIMENSIONS	H x W x D	32-11/16 x 35-7/16 x 13 inch 830 x 900 x 330 mm
WEIGHT	Net / Shipping	134 lbs 8 oz / 149 lbs 15 oz 61 kg / 68 kg

INDOOR UNIT
COMPACT WALL MOUNTED

ELECTRICAL DATA

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

FAN MOTOR

DISCRIMINATION			MFD-12CYAN					
FAN REVOLUTION	Cooling	High	1,050 r.p.m.		1,090 r.p.m.		1,190 r.p.m.	
		Medium	950 r.p.m.		980 r.p.m.		1,050 r.p.m.	
		Low	850 r.p.m.		850 r.p.m.		880 r.p.m.	
		Quiet	680 r.p.m.		680 r.p.m.		680 r.p.m.	
	Heating	High	1,050 r.p.m.		1,090 r.p.m.		1,190 r.p.m.	
		Medium	950 r.p.m.		980 r.p.m.		1,050 r.p.m.	
		Low	850 r.p.m.		850 r.p.m.		910 r.p.m.	
		Quiet	710 r.p.m.		710 r.p.m.		710 r.p.m.	
AIR FLOW	Cooling	High	330 cfm	560 m³/h	353 cfm	600 m³/h	388 cfm	660 m³/h
		Medium	294 cfm	500 m³/h	306 cfm	520 m³/h	330 cfm	560 m³/h
		Low	253 cfm	430 m³/h	253 cfm	430 m³/h	265 cfm	450 m³/h
		Quiet	182 cfm	310 m³/h	182 cfm	310 m³/h	182 cfm	310 m³/h
	Heating	High	330 cfm	560 m³/h	353 cfm	600 m³/h	388 cfm	660 m³/h
		Medium	294 cfm	500 m³/h	306 cfm	520 m³/h	330 cfm	560 m³/h
		Low	253 cfm	430 m³/h	253 cfm	430 m³/h	277 cfm	470 m³/h
		Quiet	194 cfm	330 m³/h	194 cfm	330 m³/h	194 cfm	330 m³/h
NOISE LEVEL	Cooling	High	36 dB(A)		37 dB(A)		40 dB(A)	
		Medium	32 dB(A)		33 dB(A)		36 dB(A)	
		Low	29 dB(A)		29 dB(A)		30 dB(A)	
		Quiet	21 dB(A)		21 dB(A)		21 dB(A)	
	Heating	High	36 dB(A)		37 dB(A)		40 dB(A)	
		Medium	32 dB(A)		33 dB(A)		36 dB(A)	
		Low	29 dB(A)		29 dB(A)		31 dB(A)	
		Quiet	22 dB(A)		22 dB(A)		22 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
FLOOR

ELECTRICAL DATA

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

FAN MOTOR

DISCRIMINATION			MFD-14TXAN (upper) / MFD-14SXAN (lower)			
FAN REVOLUTION (upper fan / lower fan)	Cooling	High	1,120 / 950 r.p.m.		1,240 / 1,050 r.p.m.	
		Medium	960 / 820 r.p.m.		1,050 / 890 r.p.m.	
		Low	820 / 700 r.p.m.		860 / 730 r.p.m.	
		Quiet	660 / 560 r.p.m.		660 / 560 r.p.m.	
	Heating	High	1,120 / 950 r.p.m.		1,240 / 1,050 r.p.m.	
		Medium	1,000 / 850 r.p.m.		1,080 / 920 r.p.m.	
		Low	860 / 730 r.p.m.		910 / 770 r.p.m.	
		Quiet	660 / 560 r.p.m.		660 / 560 r.p.m.	
AIR CIRCULATION HIGH (2 fan running)	Cooling	High	312 cfm	530 m3/h	353 cfm	600 m3/h
		Medium	259 cfm	440 m3/h	288 cfm	490 m3/h
		Low	212 cfm	360 m3/h	223 cfm	380 m3/h
		Quiet	159 cfm	270 m3/h	159 cfm	270 m3/h
	Heating	High	312 cfm	530 m3/h	353 cfm	600 m3/h
		Medium	270 cfm	460 m3/h	300 cfm	510 m3/h
		Low	223 cfm	380 m3/h	241 cfm	410 m3/h
		Quiet	159 cfm	270 m3/h	159 cfm	270 m3/h
NOISE LEVEL	Cooling	High	39 dB(A)		42 dB(A)	
		Medium	34 dB(A)		36 dB(A)	
		Low	28 dB(A)		30 dB(A)	
		Quiet	22 dB(A)		22 dB(A)	
	Heating	High	39 dB(A)		42 dB(A)	
		Medium	35 dB(A)		38 dB(A)	
		Low	30 dB(A)		32 dB(A)	
		Quiet	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

INDOOR UNIT
COMPACT CASSETTE

ELECTRICAL DATA

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

FAN MOTOR

DISCRIMINATION			MFF-24VVL					
FAN REVOLUTION	Cooling	High	590 r.p.m.	590 r.p.m.	660 r.p.m.			
		Medium	540 r.p.m.	540 r.p.m.	580 r.p.m.			
		Low	490 r.p.m.	490 r.p.m.	520 r.p.m.			
		Quiet	440 r.p.m.	440 r.p.m.	460 r.p.m.			
	Heating	High	590 r.p.m.	590 r.p.m.	650 r.p.m.			
		Medium	540 r.p.m.	540 r.p.m.	580 r.p.m.			
		Low	490 r.p.m.	490 r.p.m.	520 r.p.m.			
		Quiet	440 r.p.m.	440 r.p.m.	460 r.p.m.			
AIR FLOW	Cooling	High	318 cfm 540 m³/h	318 cfm 540 m³/h	359 cfm 610 m³/h			
		Medium	288 cfm 490 m³/h	288 cfm 490 m³/h	312 cfm 530 m³/h			
		Low	259 cfm 440 m³/h	259 cfm 440 m³/h	277 cfm 470 m³/h			
		Quiet	230 cfm 390 m³/h	230 cfm 390 m³/h	241 cfm 410 m³/h			
	Heating	High	318 cfm 540 m³/h	318 cfm 540 m³/h	359 cfm 610 m³/h			
		Medium	288 cfm 490 m³/h	288 cfm 490 m³/h	312 cfm 530 m³/h			
		Low	259 cfm 440 m³/h	259 cfm 440 m³/h	277 cfm 470 m³/h			
		Quiet	230 cfm 390 m³/h	230 cfm 390 m³/h	241 cfm 410 m³/h			
NOISE LEVEL	Cooling	High	33 dB(A)	33 dB(A)	37 dB(A)			
		Medium	31 dB(A)	31 dB(A)	33 dB(A)			
		Low	29 dB(A)	29 dB(A)	31 dB(A)			
		Quiet	27 dB(A)	27 dB(A)	28 dB(A)			
	Heating	High	34 dB(A)	34 dB(A)	37 dB(A)			
		Medium	32 dB(A)	32 dB(A)	33 dB(A)			
		Low	29 dB(A)	29 dB(A)	31 dB(A)			
		Quiet	27 dB(A)	27 dB(A)	28 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
SLIM DUCT

ELECTRICAL DATA

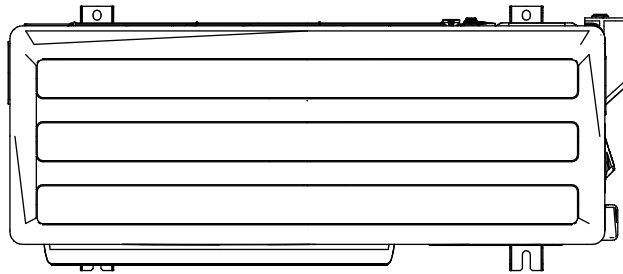
MODEL NAME	ARU7RLF	ARU9RLF	ARU12RLF
CAPACITY	9,000 Btu/h class	9,000 Btu/h class	12,000 Btu/h class

FAN MOTOR

DISCRIMINATION			MFG-09WVL					
FAN REVOLUTION	Cooling	High	1,260 r.p.m.	1,260 r.p.m.	1,340 r.p.m.			
		Medium	1,160 r.p.m.	1,160 r.p.m.	1,240 r.p.m.			
		Low	1,060 r.p.m.	1,060 r.p.m.	1,140 r.p.m.			
		Quiet	960 r.p.m.	960 r.p.m.	1,030 r.p.m.			
	Heating	High	1,260 r.p.m.	1,260 r.p.m.	1,340 r.p.m.			
		Medium	1,160 r.p.m.	1,160 r.p.m.	1,240 r.p.m.			
		Low	1,060 r.p.m.	1,060 r.p.m.	1,140 r.p.m.			
		Quiet	960 r.p.m.	960 r.p.m.	1,030 r.p.m.			
AIR FLOW	Cooling	High	324 cfm 550 m³/h	353 cfm 600 m³/h	383 cfm 650 m³/h			
		Medium	288 cfm 490 m³/h	324 cfm 550 m³/h	353 cfm 600 m³/h			
		Low	277 cfm 470 m³/h	294 cfm 500 m³/h	324 cfm 550 m³/h			
		Quiet	259 cfm 440 m³/h	265 cfm 450 m³/h	283 cfm 480 m³/h			
	Heating	High	324 cfm 550 m³/h	353 cfm 600 m³/h	383 cfm 650 m³/h			
		Medium	288 cfm 490 m³/h	324 cfm 550 m³/h	353 cfm 600 m³/h			
		Low	277 cfm 470 m³/h	294 cfm 500 m³/h	324 cfm 550 m³/h			
		Quiet	259 cfm 440 m³/h	265 cfm 450 m³/h	283 cfm 480 m³/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)			

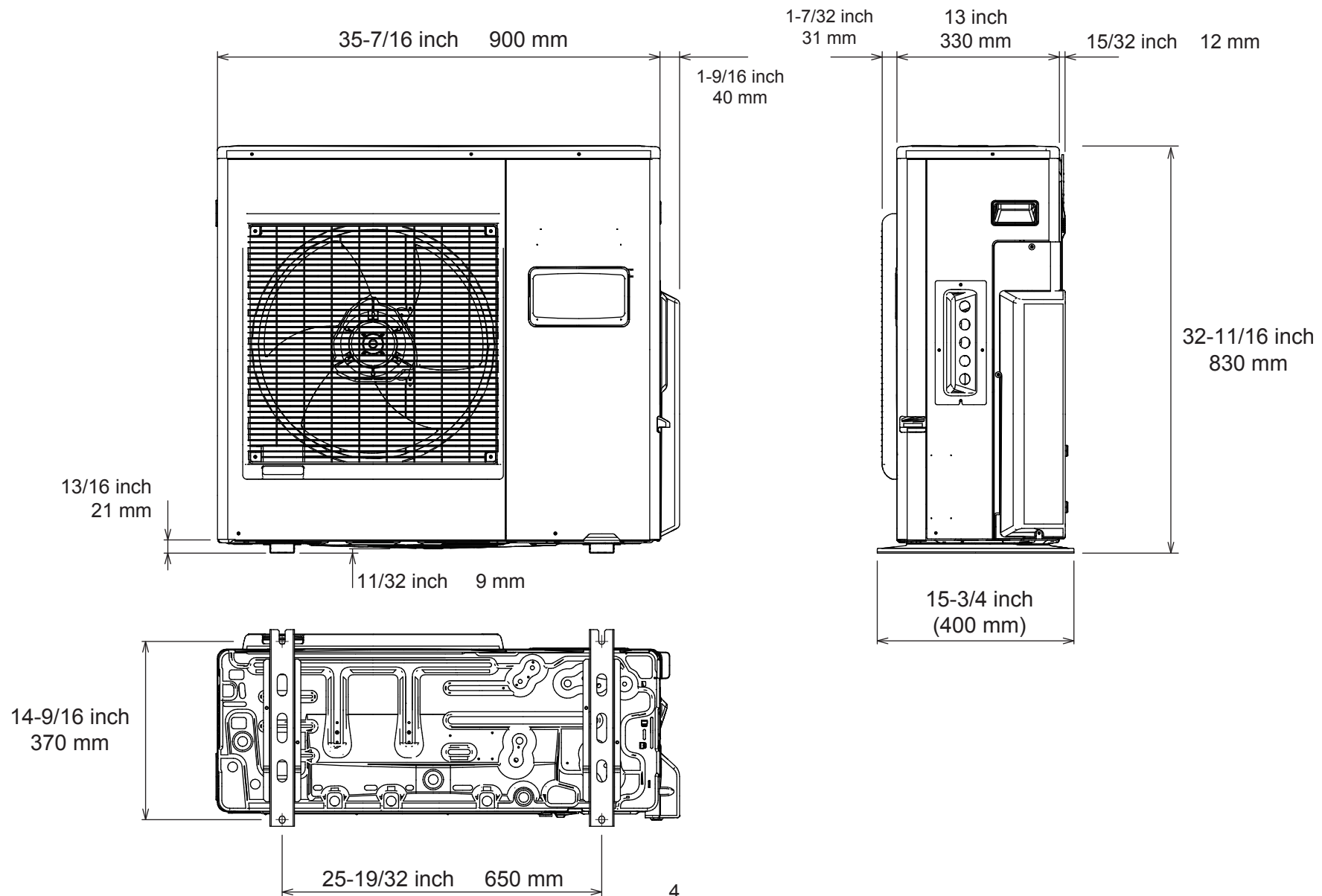
MEASUREMENTS

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

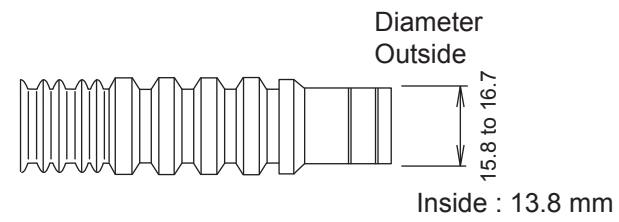
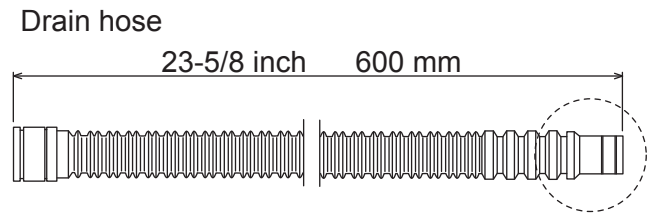
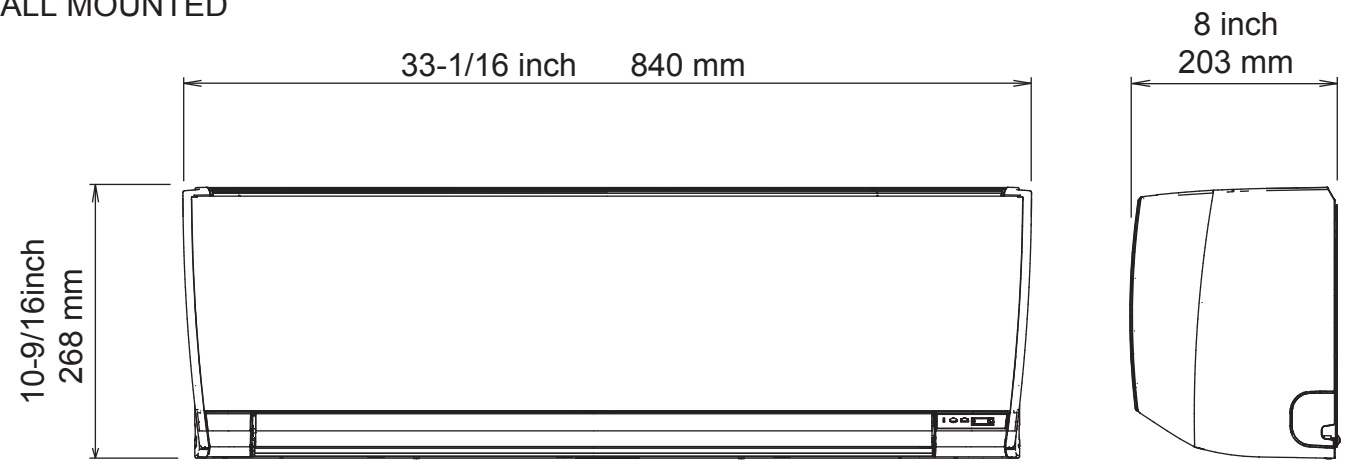


DIMENSIONS

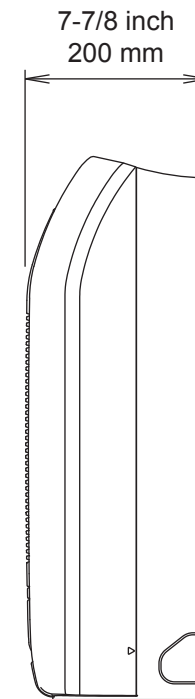
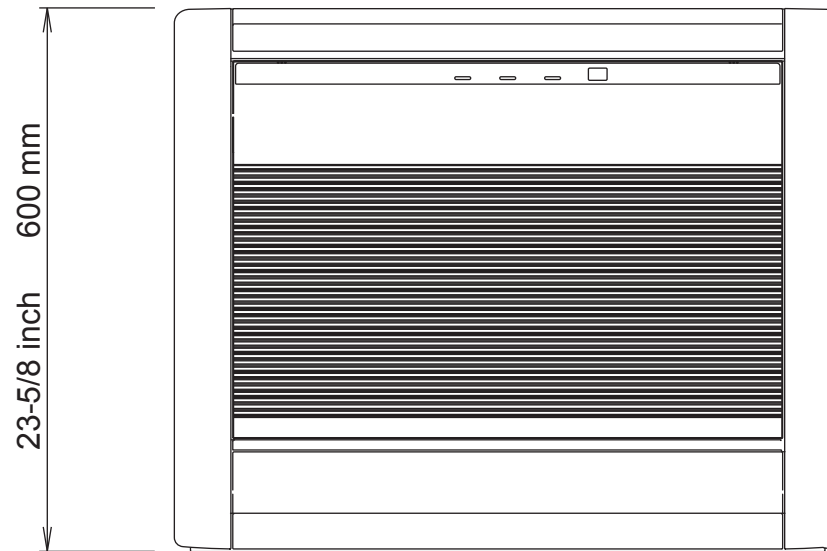
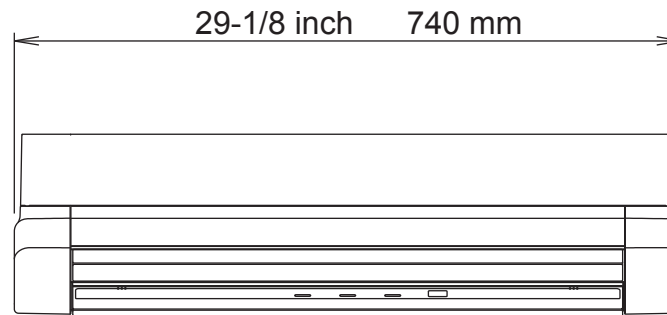
OUTDOOR UNIT
AOU18RLXFZH



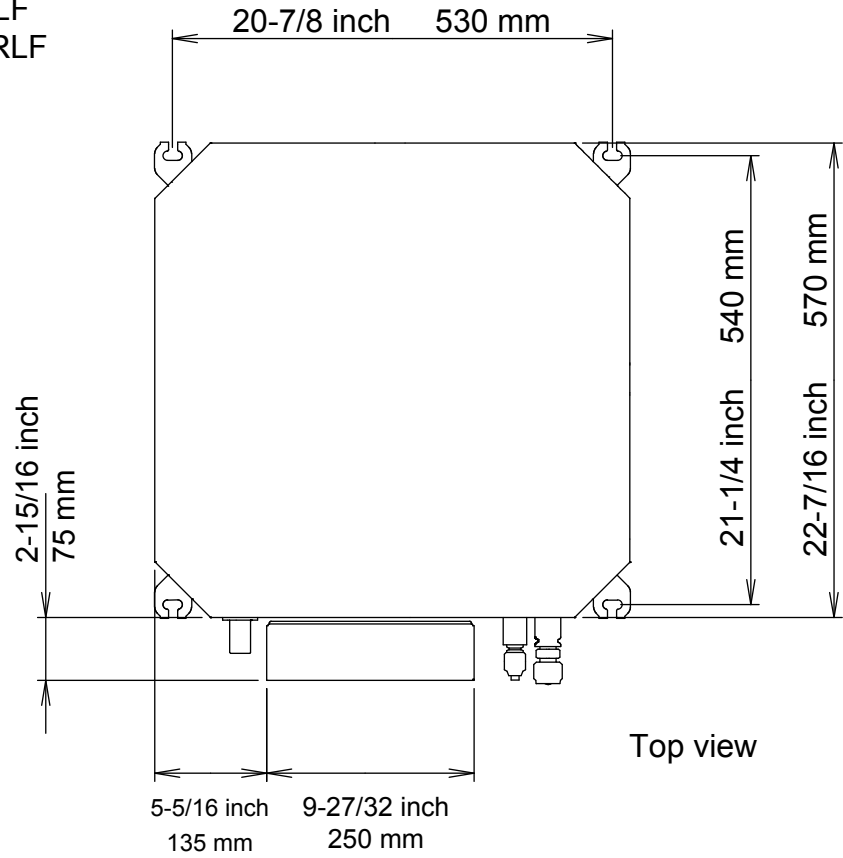
INDOOR UNIT
COMPACT WALL MOUNTED
ASU7RLF1
ASU9RLF1
ASU12RLF1



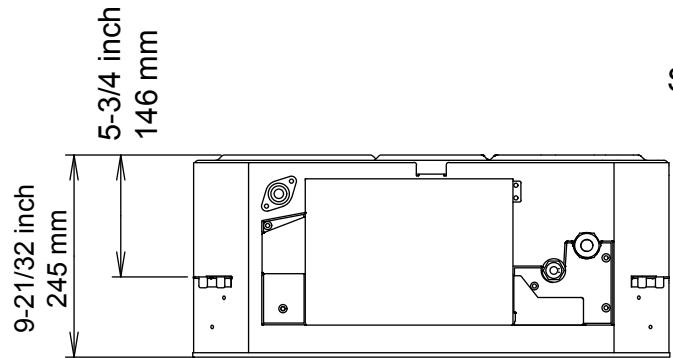
INDOOR UNIT
FLOOR
AGU9RLF
AGU12RLF
AGU15RLF



INDOOR UNIT
COMPACT CASSETTE
AUU7RLF
AUU9RLF
AUU12RLF

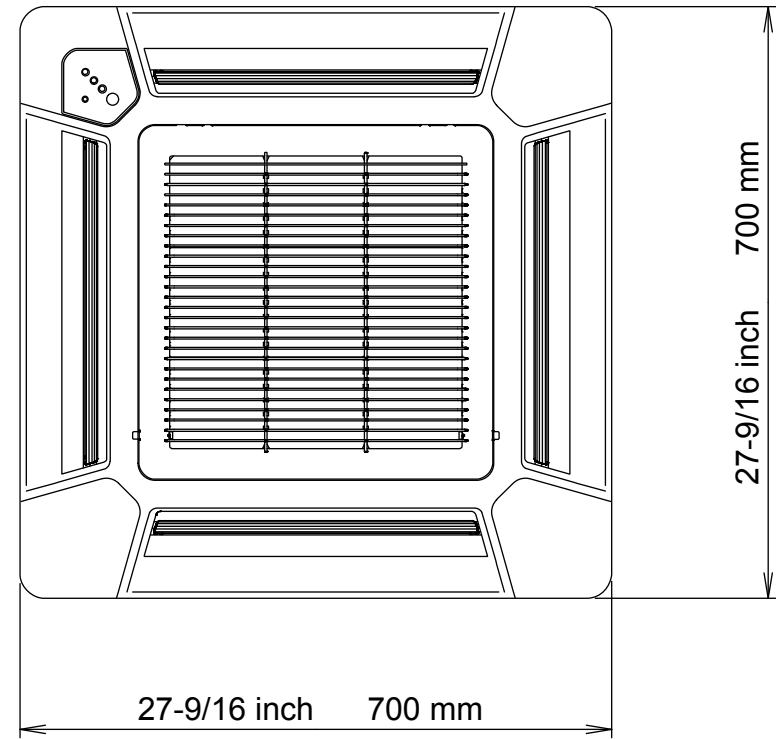


Top view

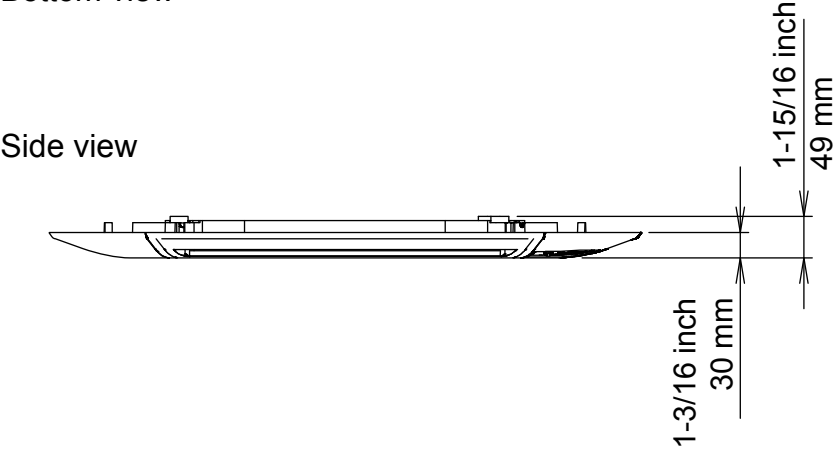


Side view

DECORATION PANEL
UTG-CCGF

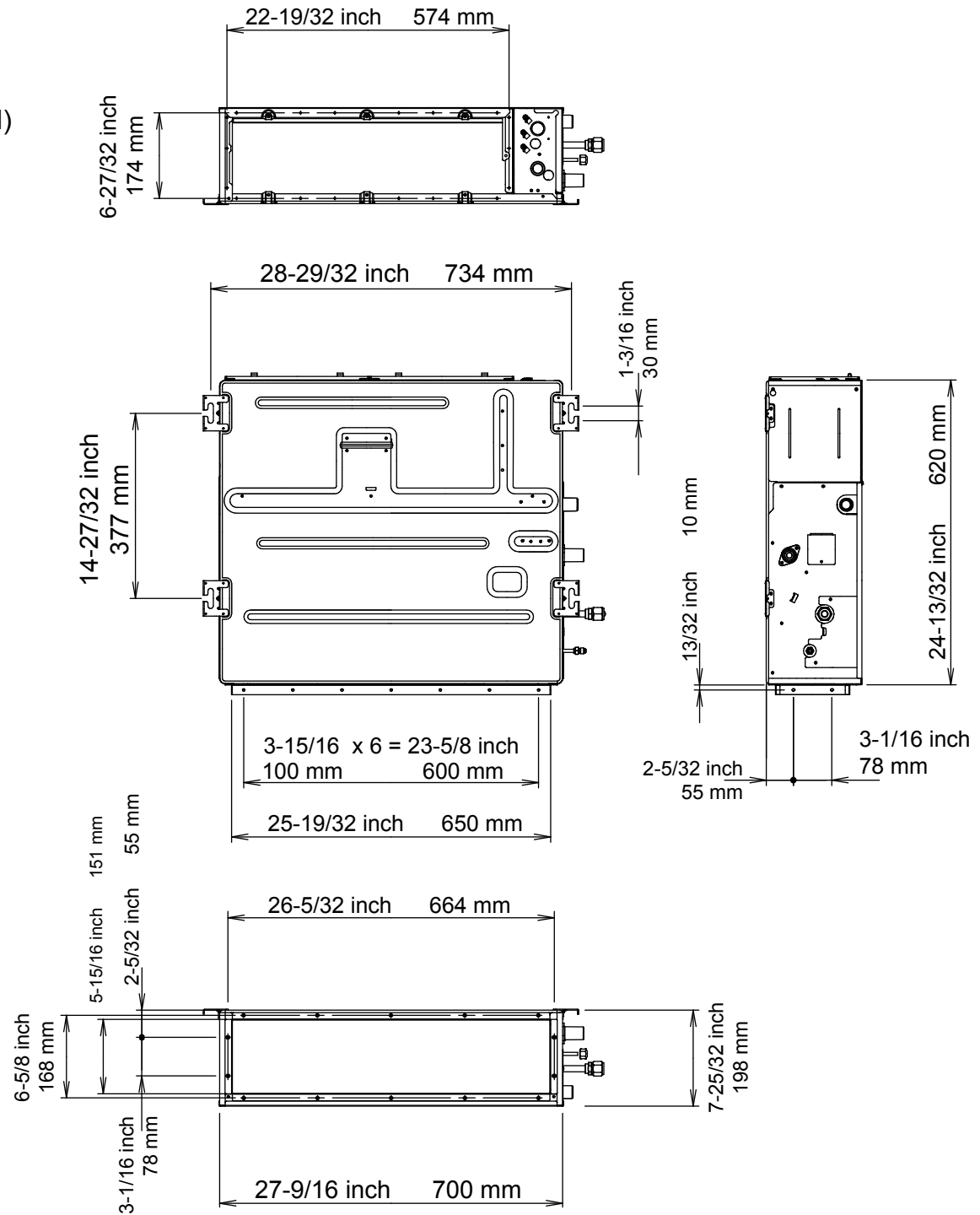


Bottom view

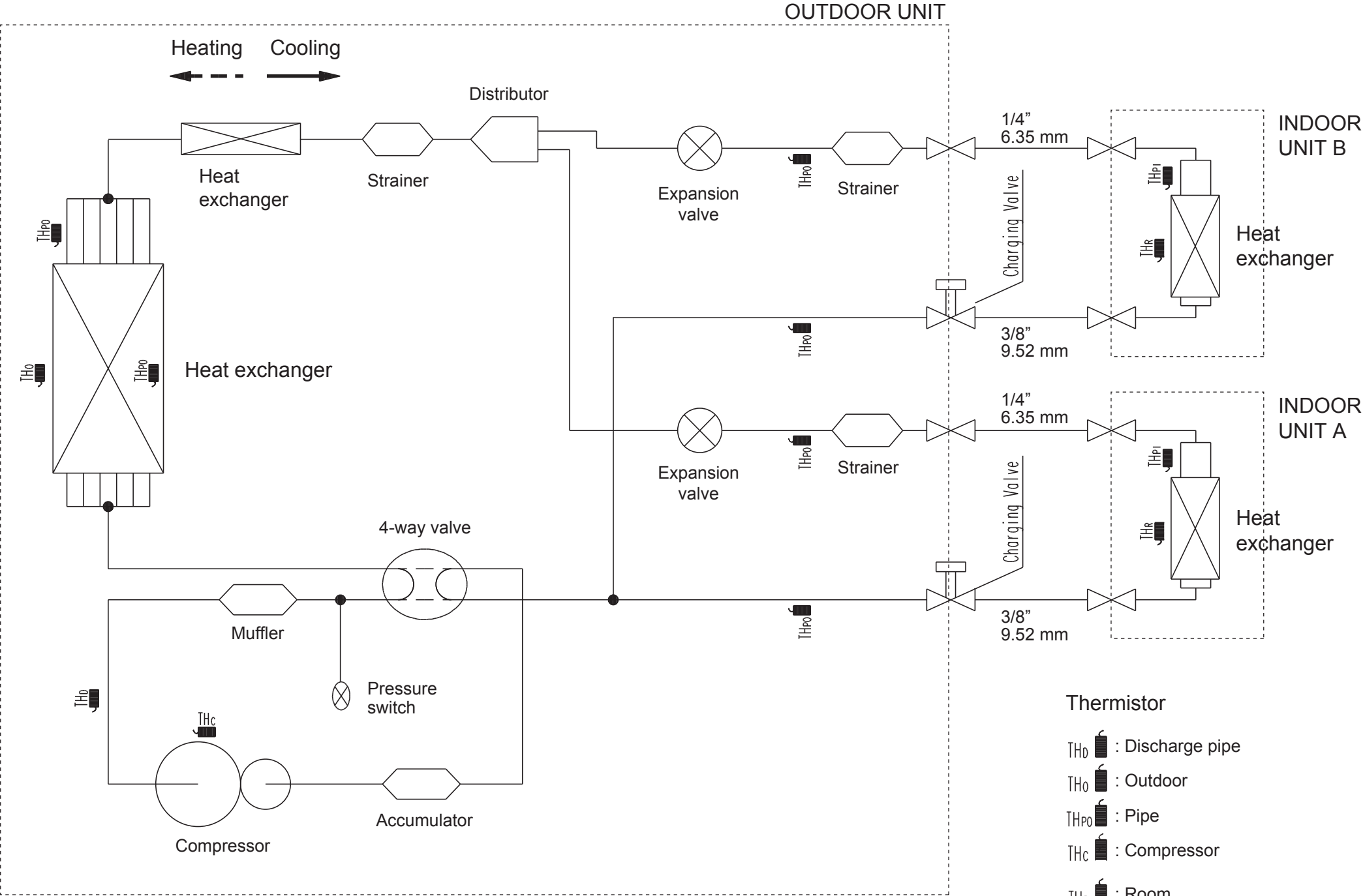


Side view

INDOOR UNIT
 SLIM DUCT (Shanghai model)
 ARU7RLF
 ARU9RLF
 ARU12RLF
 (Serial number : R)



REFRIGERANT SYSTEM DIAGRAM



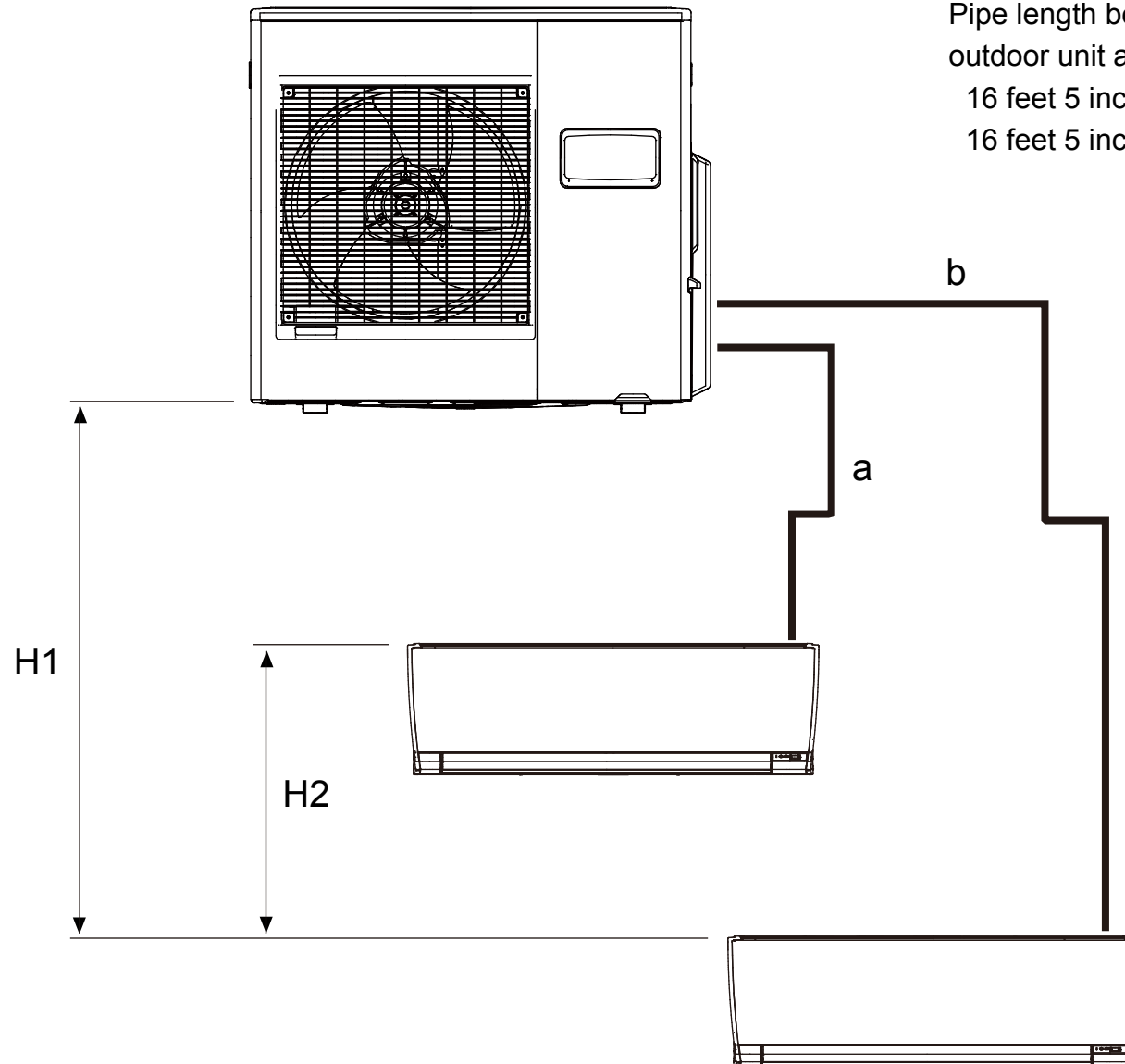
LIMITATION OF PIPING LENGTH AND PIPING HEIGHT DIFFERENCE

Sum of pipe length
 $49 \text{ feet} < a + b < 164 \text{ feet}$

Pipe length between
outdoor unit and indoor unit
 $16 \text{ feet } 5 \text{ inches} < a < 82 \text{ feet}$
 $16 \text{ feet } 5 \text{ inches} < b < 82 \text{ feet}$

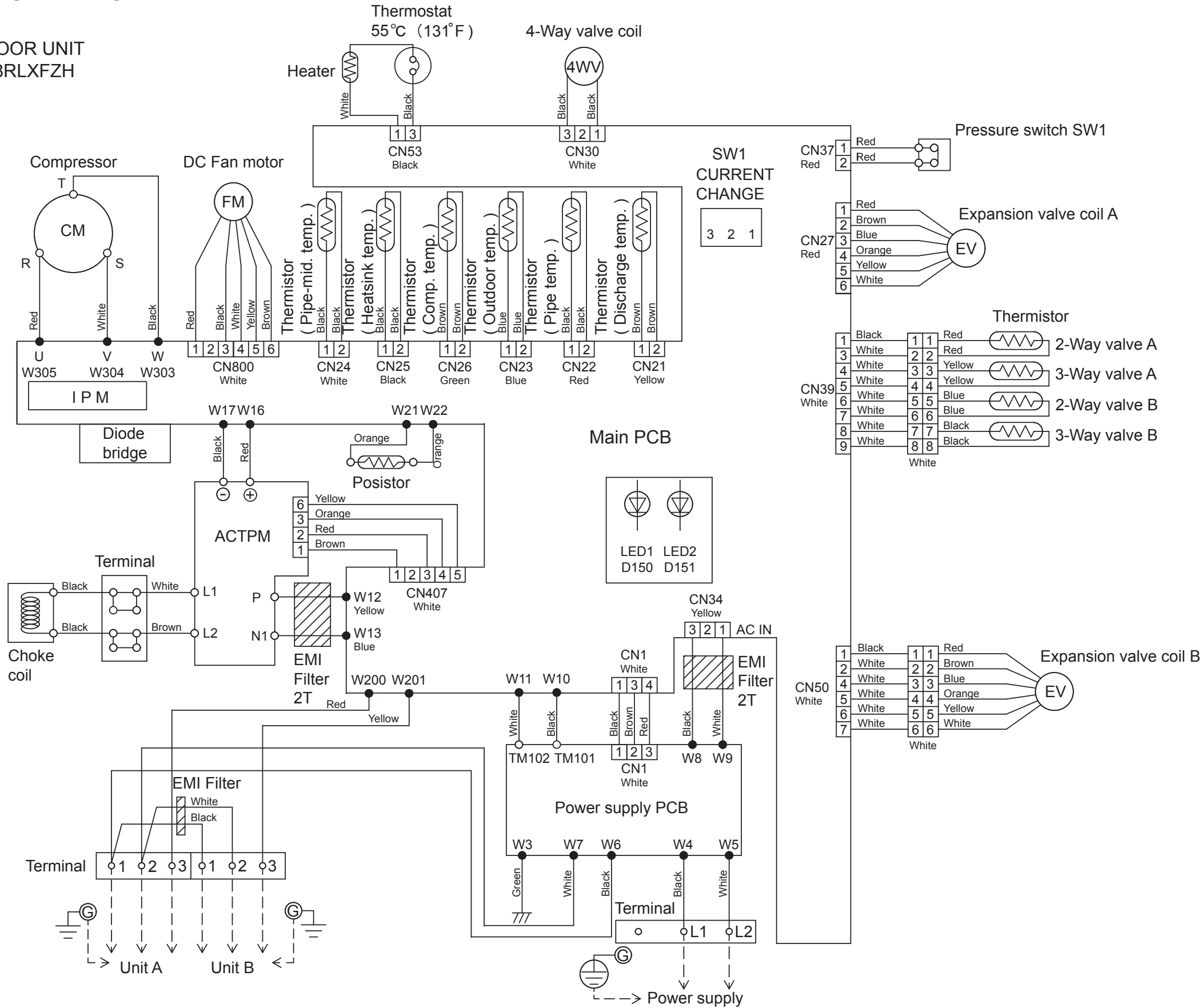
Height difference between
outdoor unit and indoor unit
 $H1 < 49 \text{ feet}$

Height difference
between indoor units
 $H2 < 32 \text{ feet } 10 \text{ inches}$

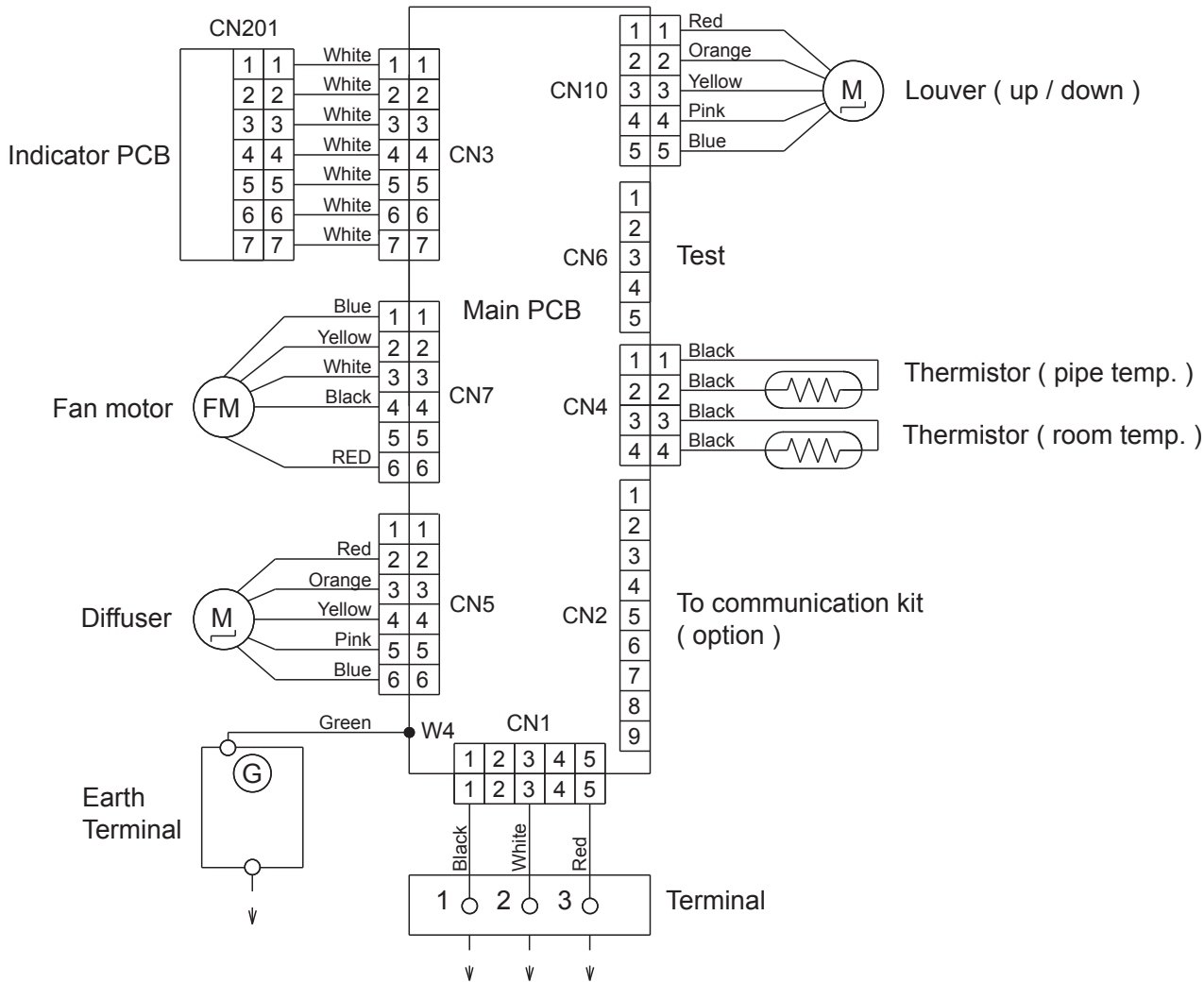


CIRCUIT DIAGRAM

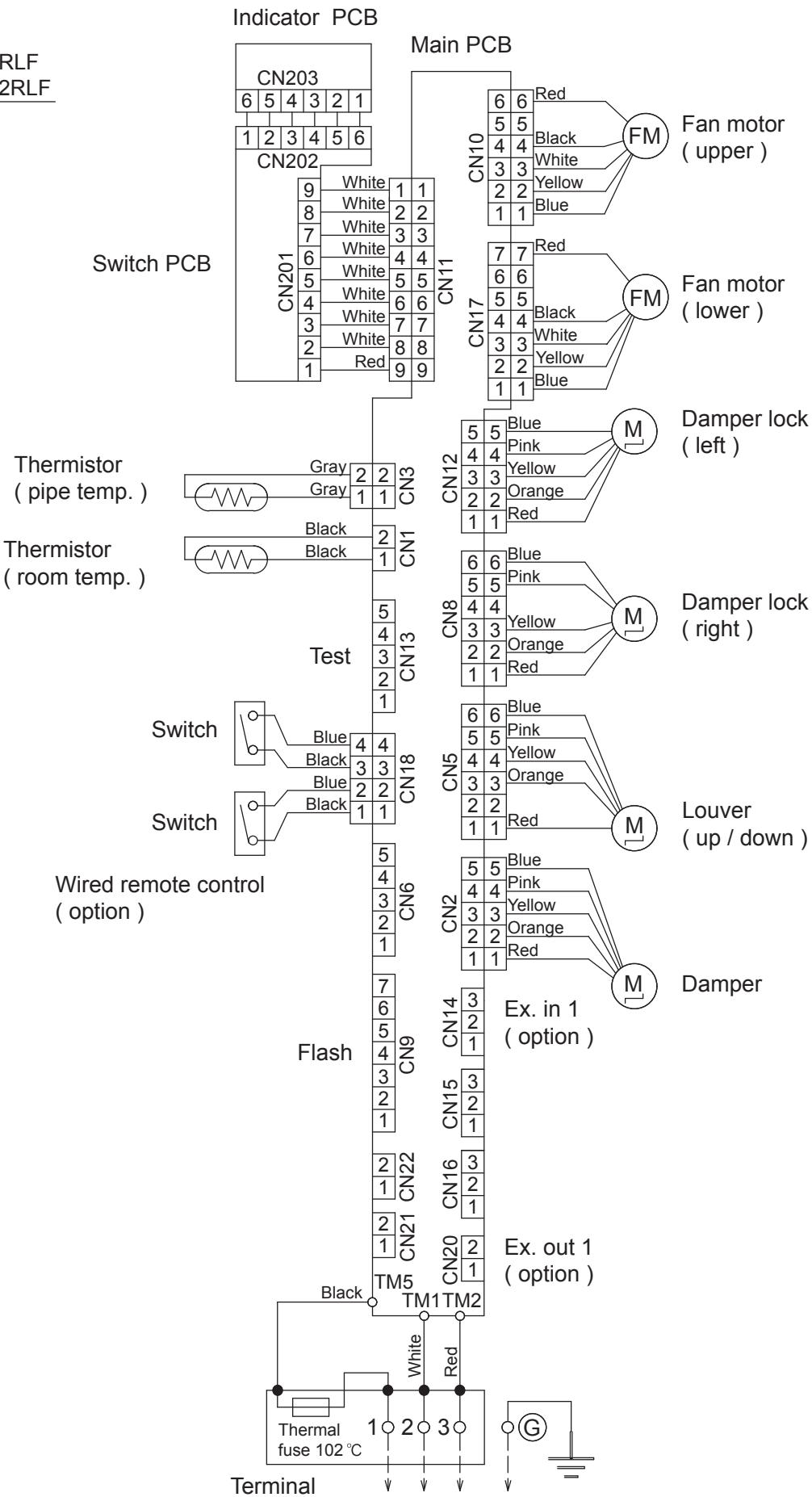
OUTDOOR UNIT
AOU18RLXFZH



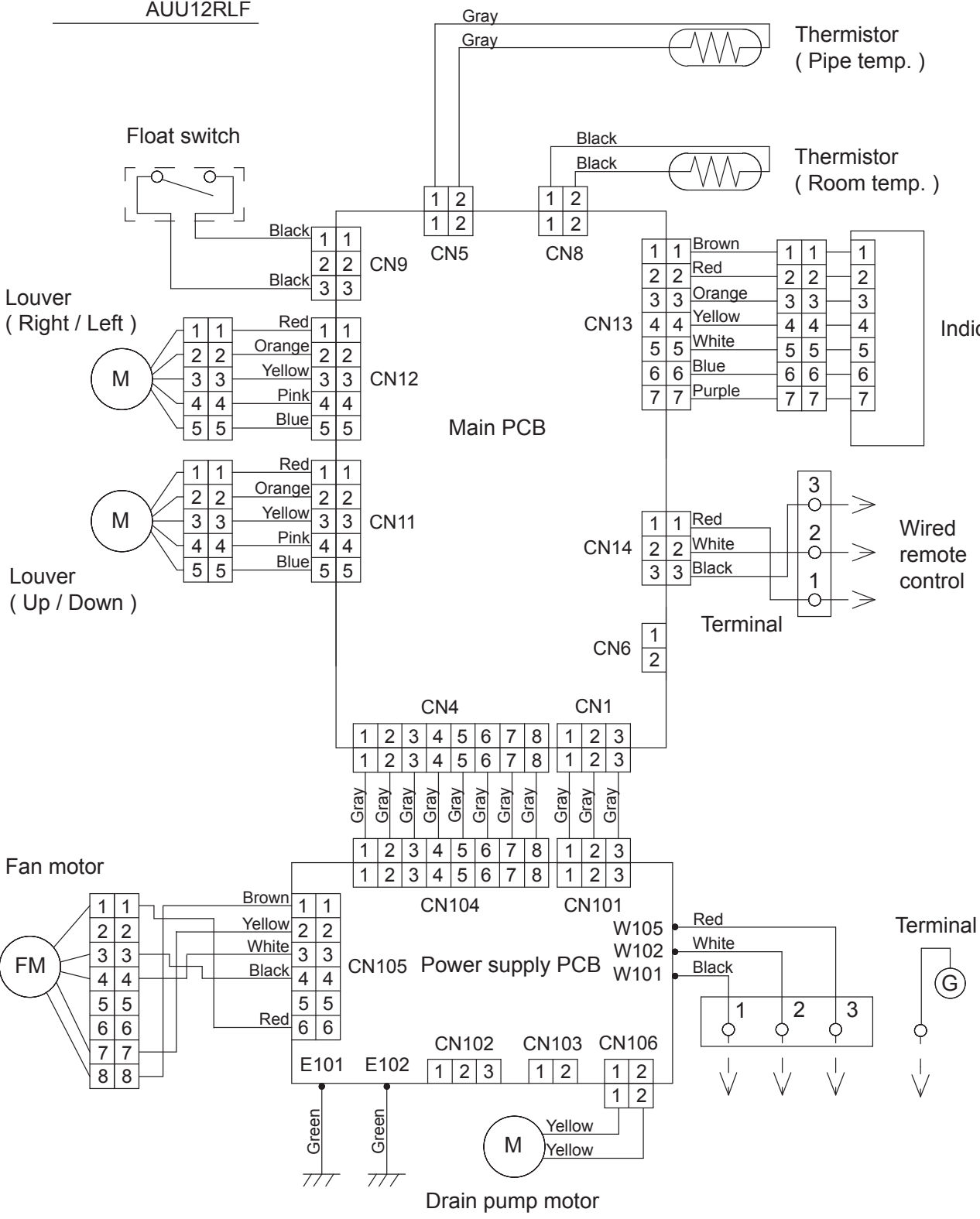
Models : ASU7RLF1
ASU9RLF1
ASU12RLF1



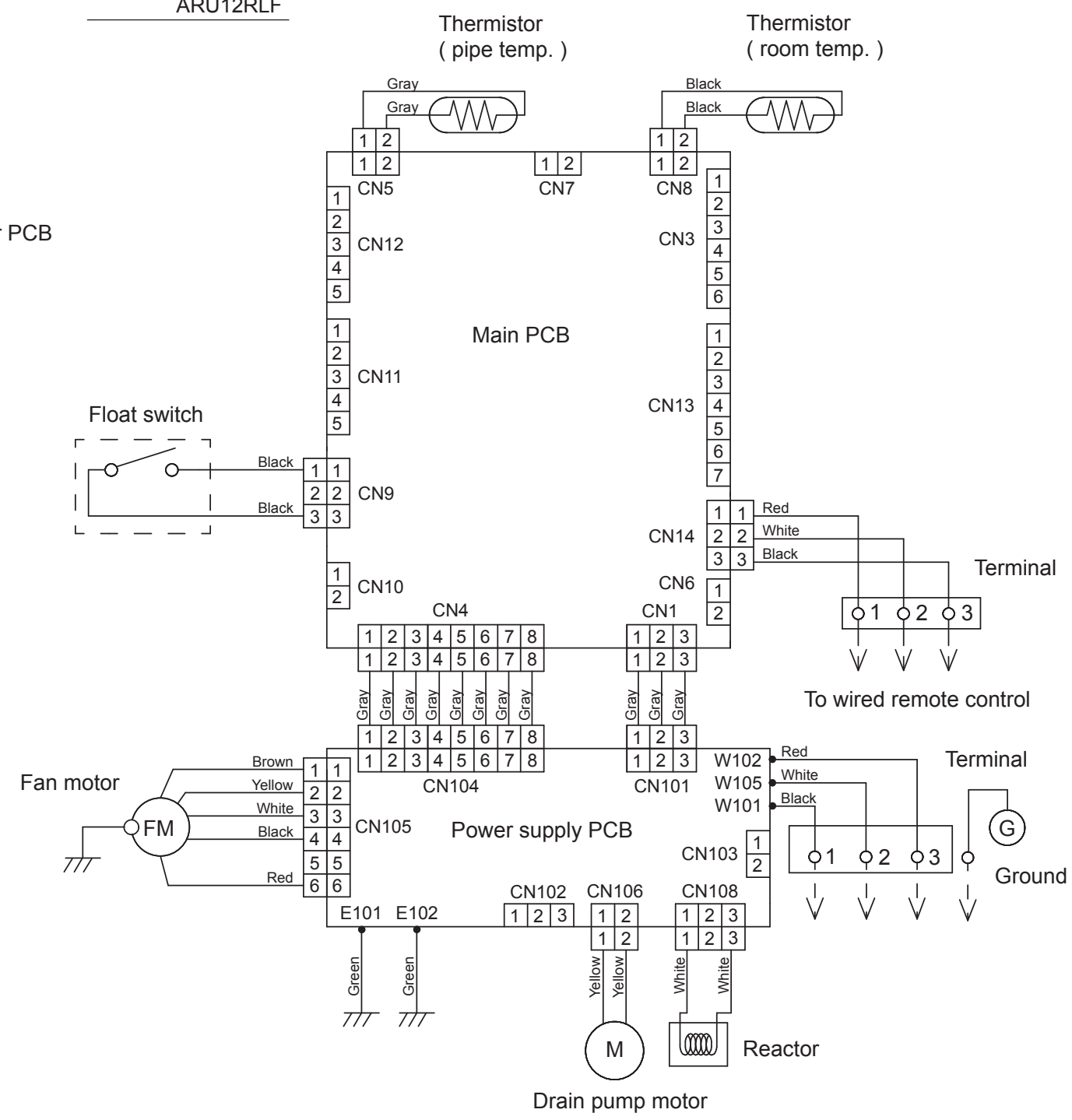
Models : AGU9RLF
AGU12RLF



Models : AUU7RLF
AUU9RLF
AUU12RLF

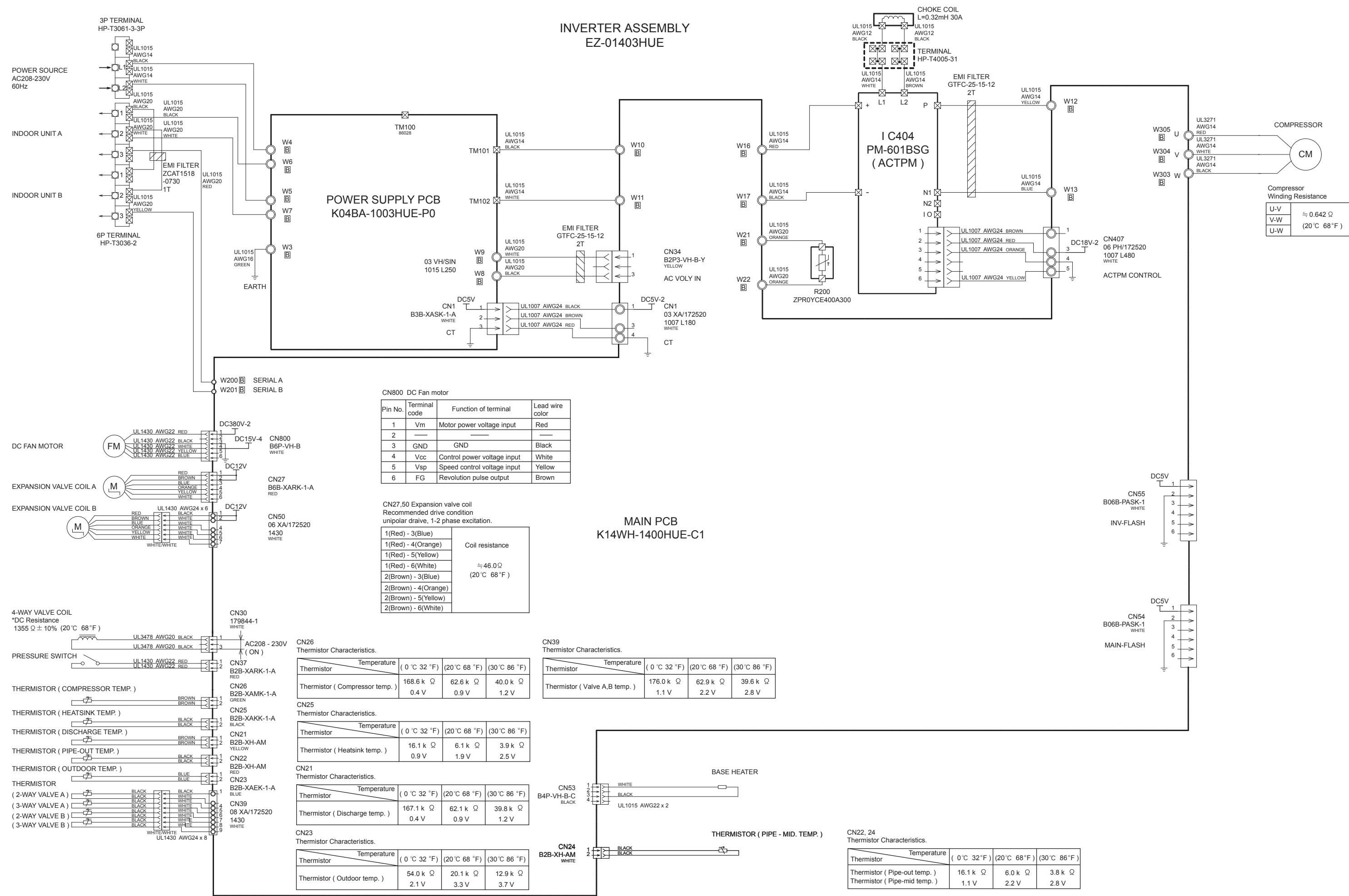


Models : ARU7RLF
ARU9RLF
ARU12RLF



OUTDOOR PCB CIRCUIT DIAGRAM

AOU18RLXFZH



INDOOR PCB CIRCUIT DIAGRAM

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

DC FAN MOTOR

F M

DIFFUSER

M

COMMUNICATION KIT
(OPTION)

OUTDOOR UNIT

EARTH TERMINAL

TERMINAL

MAIN PCB

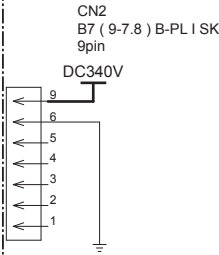
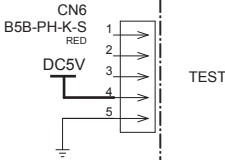
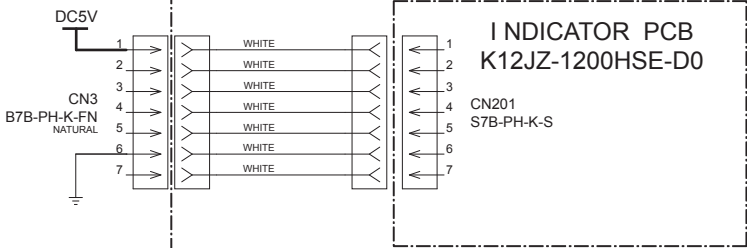
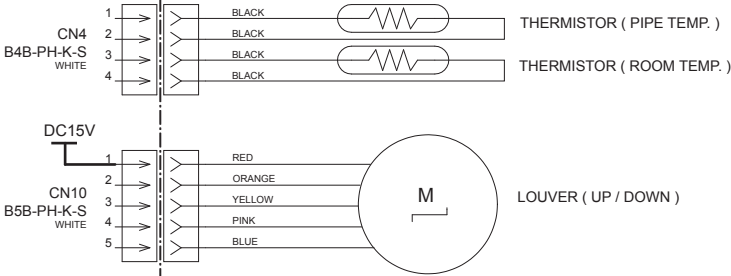
ASU7RLF1 : K12JY-1402HSE-C1
ASU9RLF1 : K12JY-1400HSE-C1
ASU12RLF1 : K12JY-1401HSE-C1

CONTROL UNIT

ASU7RLF1 : EZ-0131DHSE
ASU9RLF1 : EZ-0130WHSE
ASU12RLF1 : EZ-0130YHSE

CN4 Thermistor Characteristics.

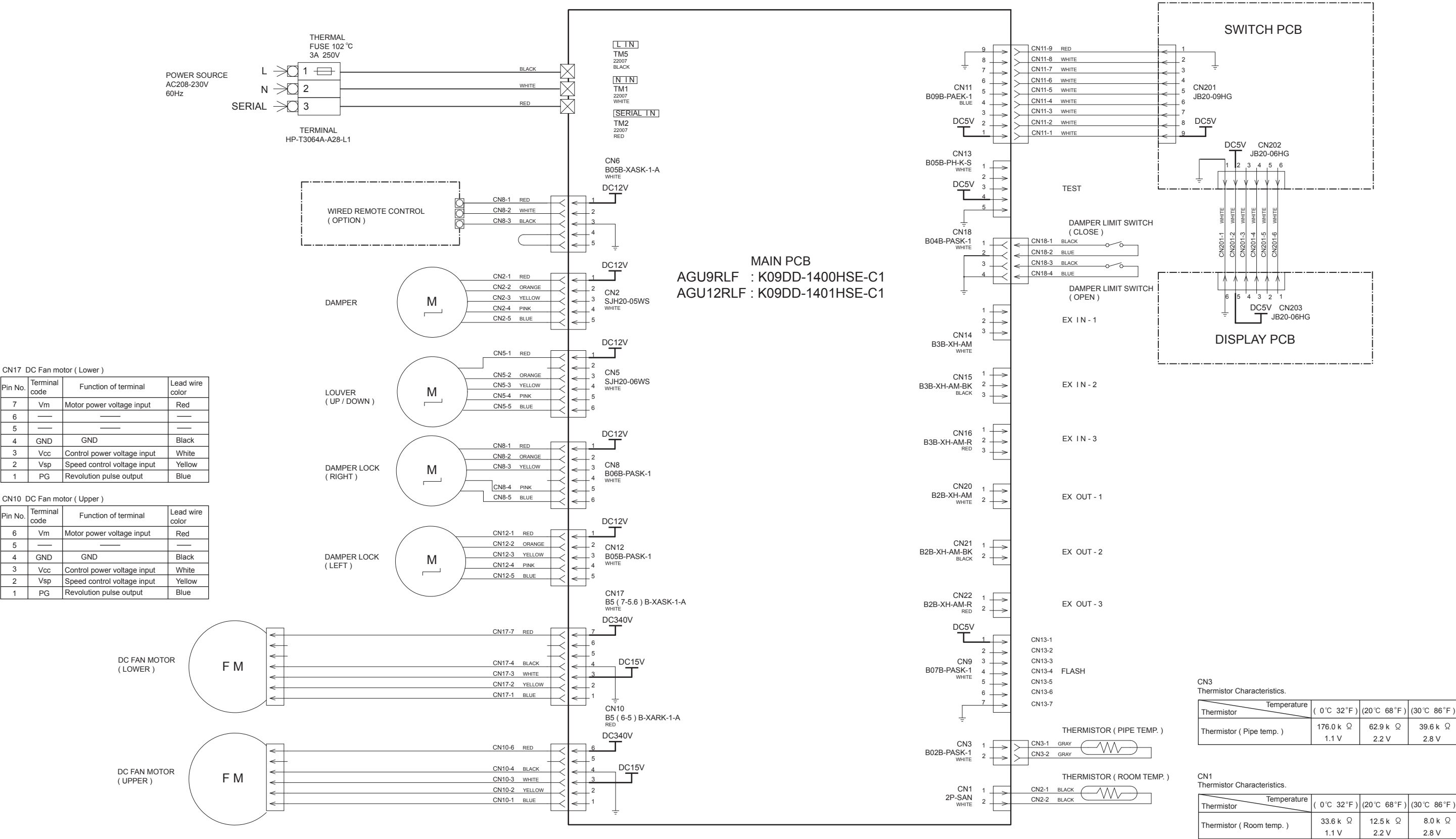
Thermistor	Temperature		
	(0℃ 32°F)	(20℃ 68°F)	(30℃ 86°F)
Thermistor (Pipe temp.)	176.0 k Ω 1.1 V	62.9 k Ω 2.2 V	39.6 k Ω 2.8 V
Thermistor (room temp.)	33.6 k Ω 1.1 V	12.5 k Ω 2.2 V	8.0 k Ω 2.8 V



CONTROL UNIT

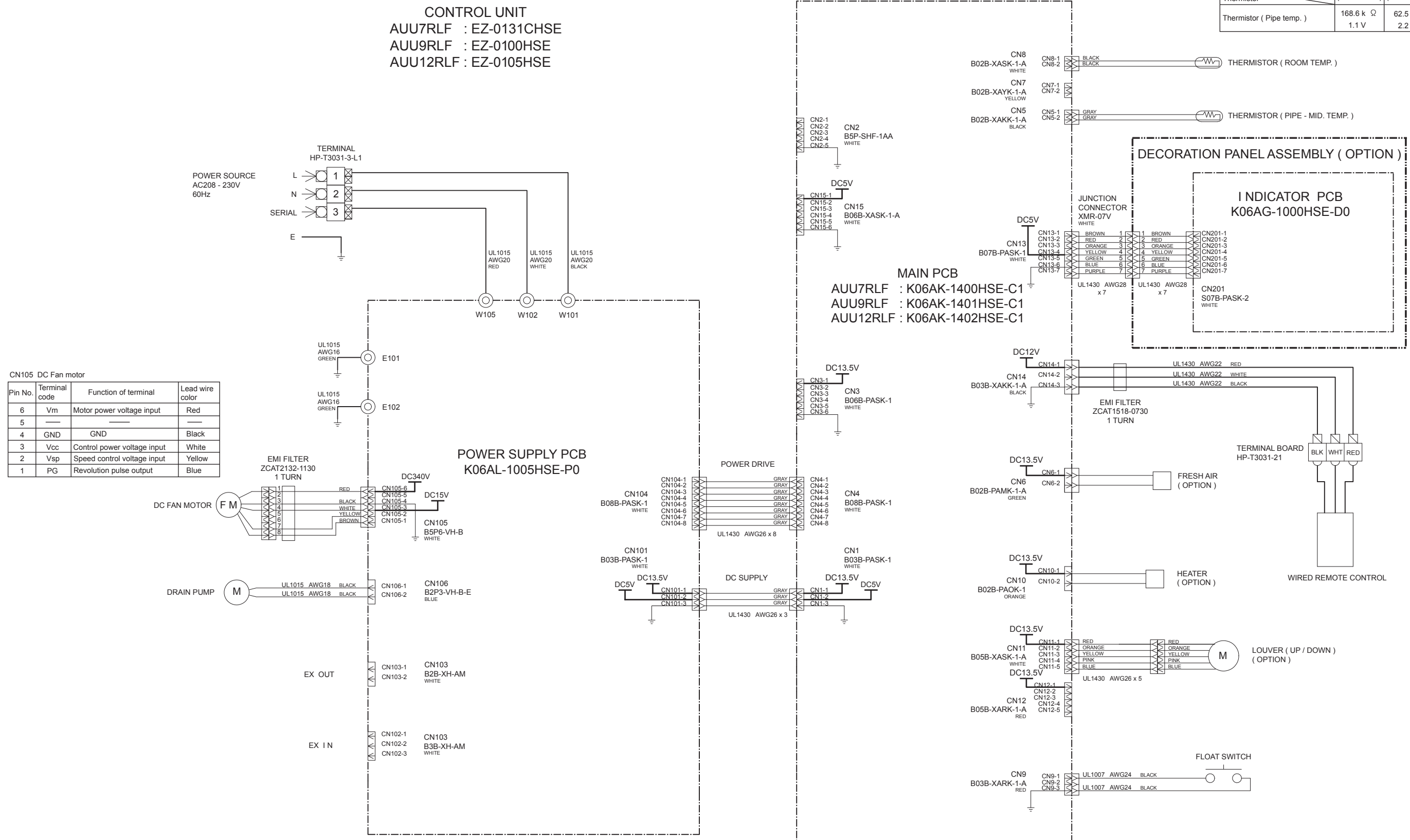
AGU9RLF : EZ-01302HSE
AGU12RLF : EZ-01303HSE

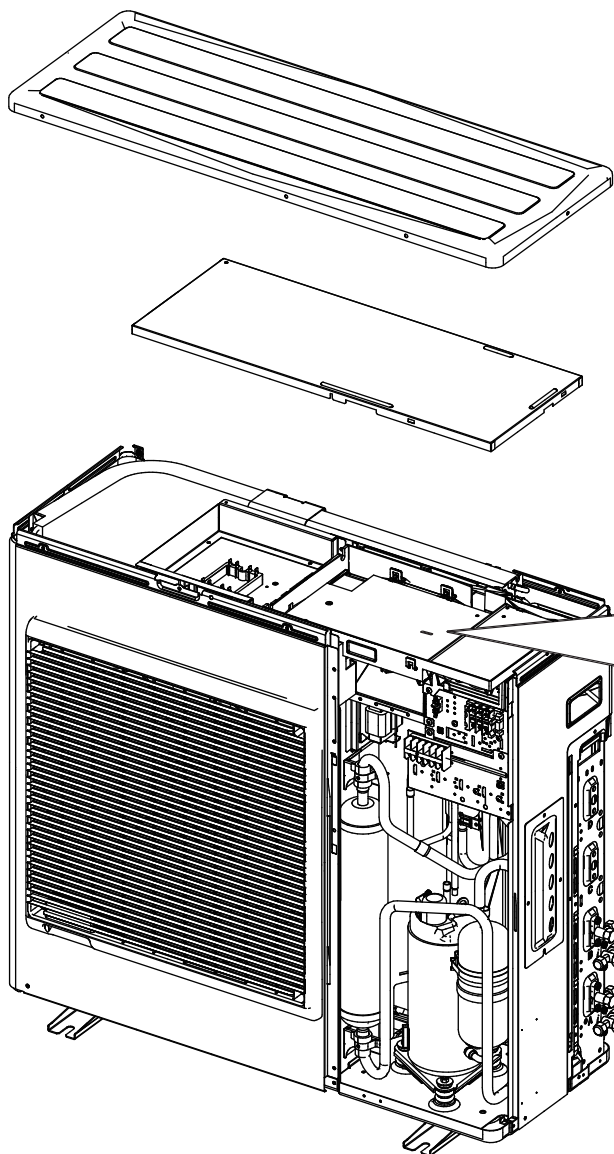
I NDICATOR PCB (SWITCH + DISPLAY)
K06DD-0801HSE-F0



CN8 Thermistor Characteristics.			
Thermistor \ Temperature	(0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Room temp.)	33.6 k Ω 1.1 V	12.5 k Ω 2.2 V	8.0 k Ω 2.8 V

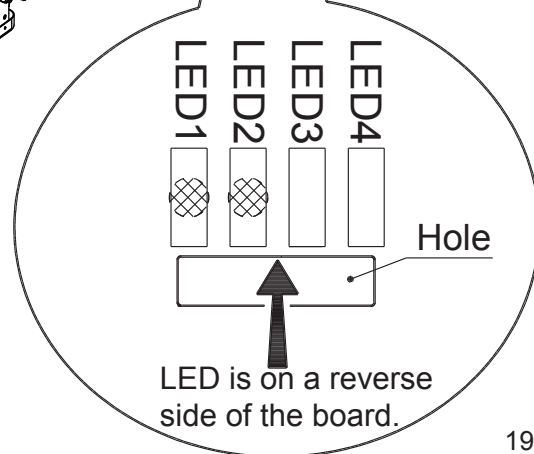
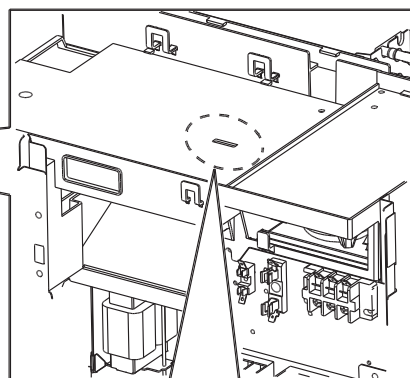
Thermistor	Temperature (0°C 32°F)	(20°C 68°F)	(30°C 86°F)
Thermistor (Pipe temp.)	168.6 k Ω 1.1 V	62.5 k Ω 2.2 V	40.0 k Ω 2.8 V





ERROR DETECTION

OUTDOOR UNIT AOU18RLXFZH



● : Flashing

— : Off

Error contents	LED 1	LED 2
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 IU A)	● 5 times	—
2-way valve temp. sensor error (for IU B)	—	● 5 times
3-way valve temp. sensor error (for IU A)	● 6 times	—
3-way valve temp. sensor error (for IU B)	—	● 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	—

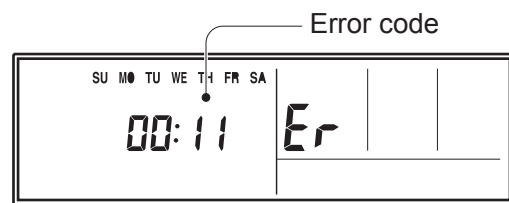
INDOOR UNIT and WIRED REMOTE CONTROL

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

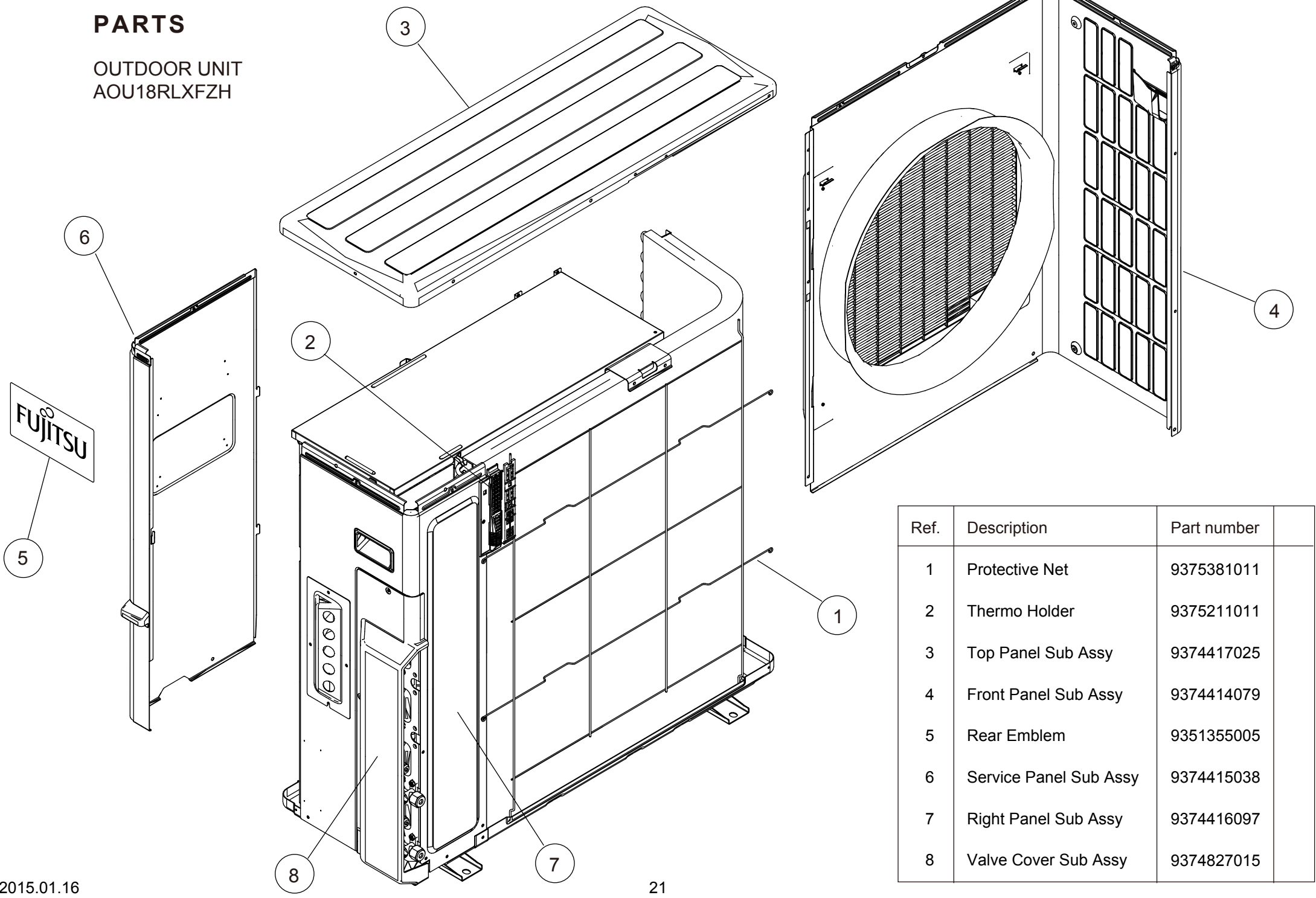
() : Number of flashing

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	Primary unit, secondary unit setup 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

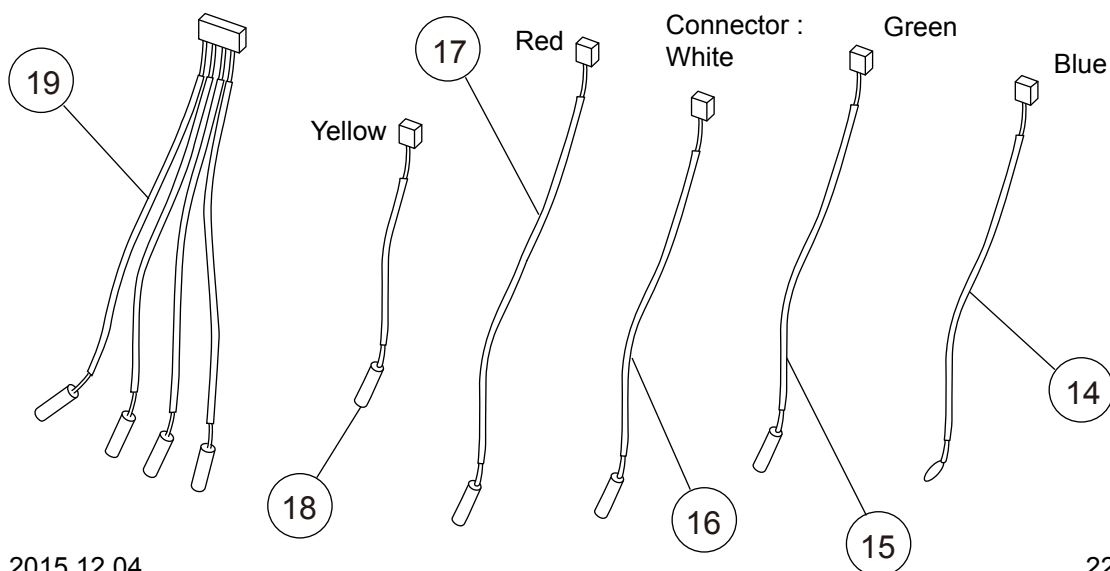
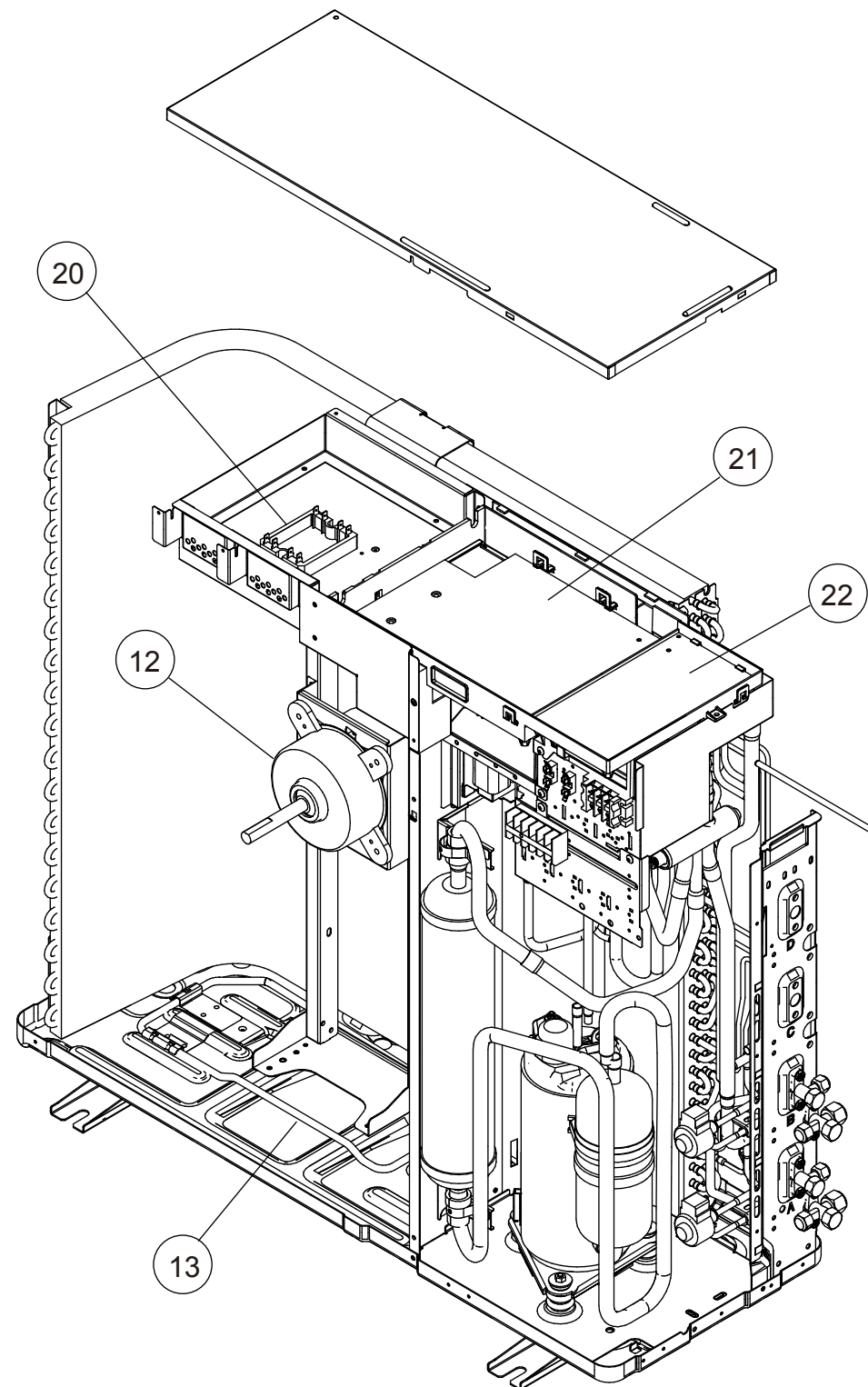
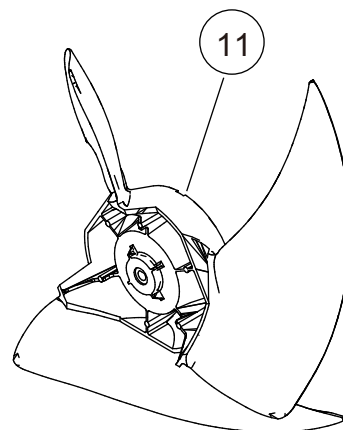
OUTDOOR UNIT
AOU18RLXFZH

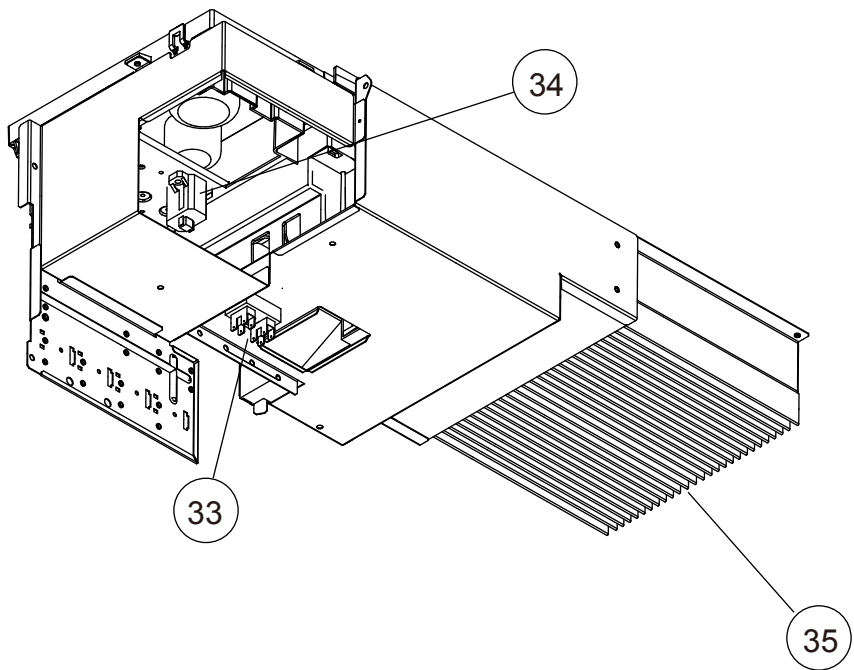


Ref.	Description	Part number
1	Protective Net	9375381011
2	Thermo Holder	9375211011
3	Top Panel Sub Assy	9374417025
4	Front Panel Sub Assy	9374414079
5	Rear Emblem	9351355005
6	Service Panel Sub Assy	9374415038
7	Right Panel Sub Assy	9374416097
8	Valve Cover Sub Assy	9374827015

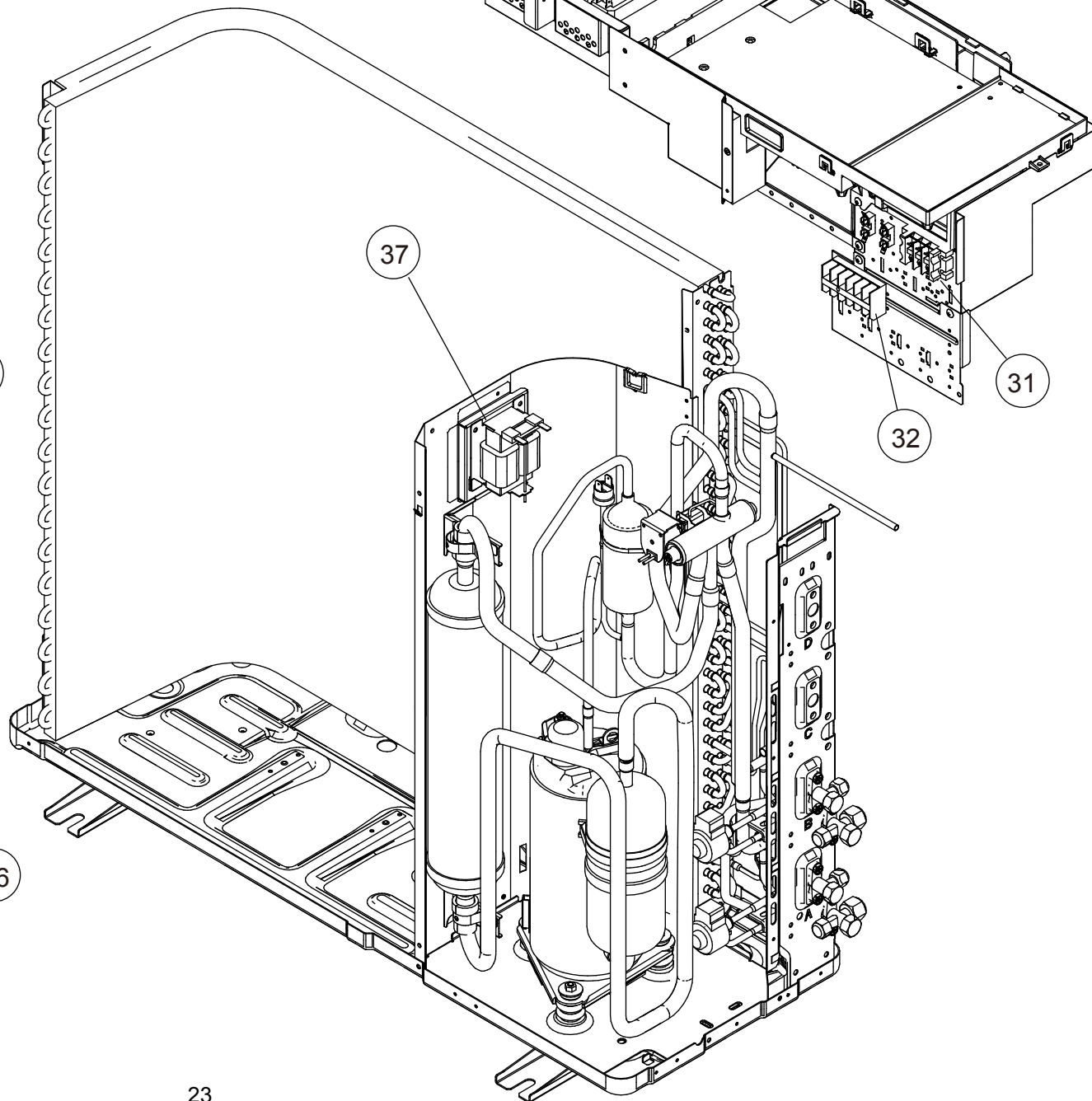
Ref.	Description	Part number
11	Propeller fan	9366378020
12	Fan Motor	9602843039
13	Heater Unit Assy	9900888008
14	Outdoor Thermistor	9900477035
15	Compressor Thermistor	9900156084
16	Heat Ex. Thermistor (Middle)	9900878009
17	Heat Ex. Thermistor (Outlet)	9900492014
18	Discharge Thermistor	9900621018
19	Pipe Thermistor	9900543020
20	ACTPM	9707592016
21	Main PCB (Service unit)	9709680797
22	Power Supply PCB	9709893098

OUTDOOR UNIT AOU18RLXFZH



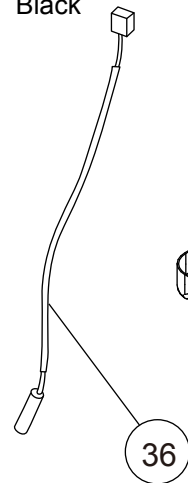


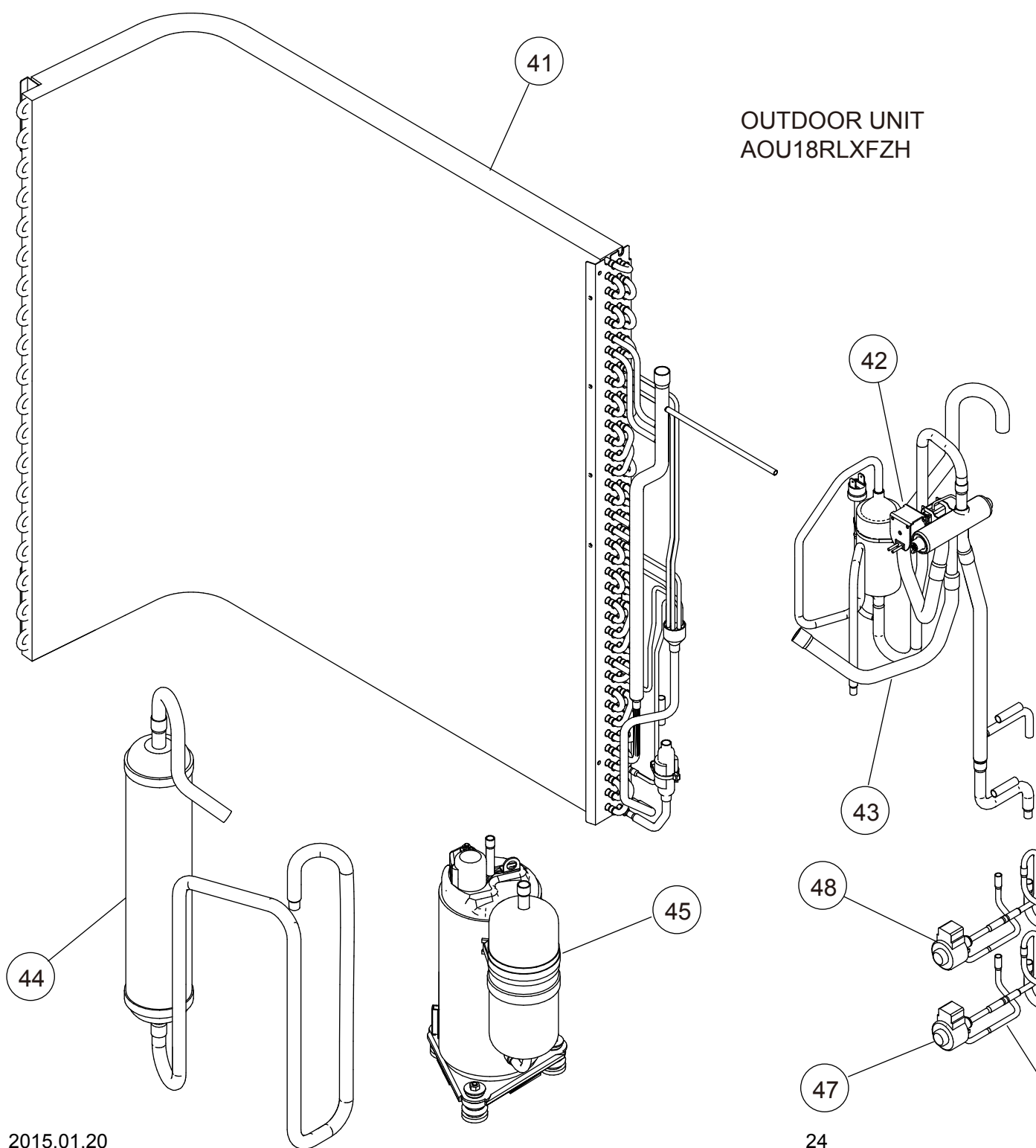
OUTDOOR UNIT AOU18RLXFZH



Ref.	Description	Part number
31	Terminal 3P	9900203016
32	Terminal 6P	9900016036
33	Terminal	9900433017
34	Thermistor	9704265012
35	Heat Sink B	9374607020
36	Heat Sink Thermistor	9900311018
37	Choke Coil	9900366018

Connector :
Black

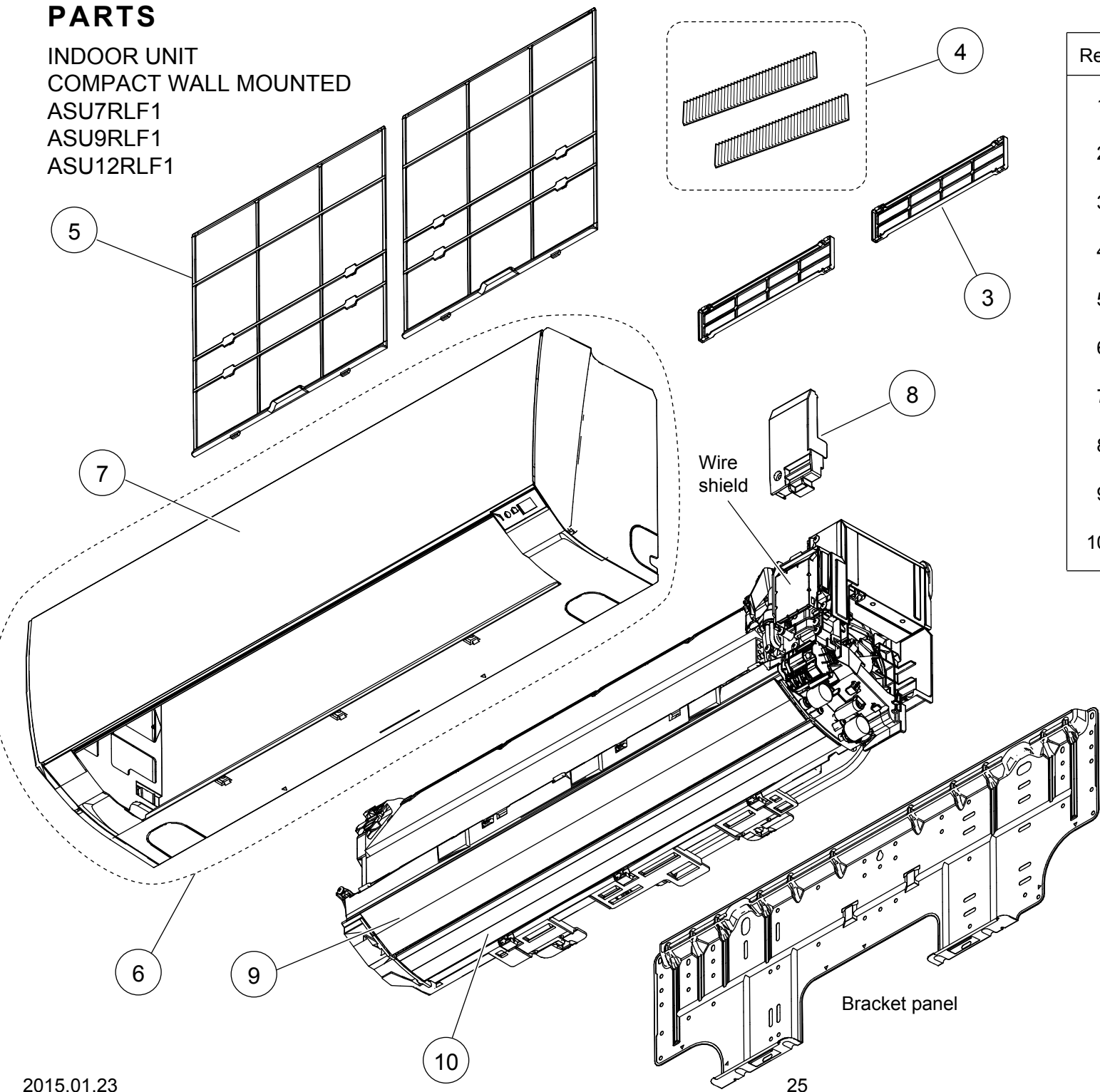




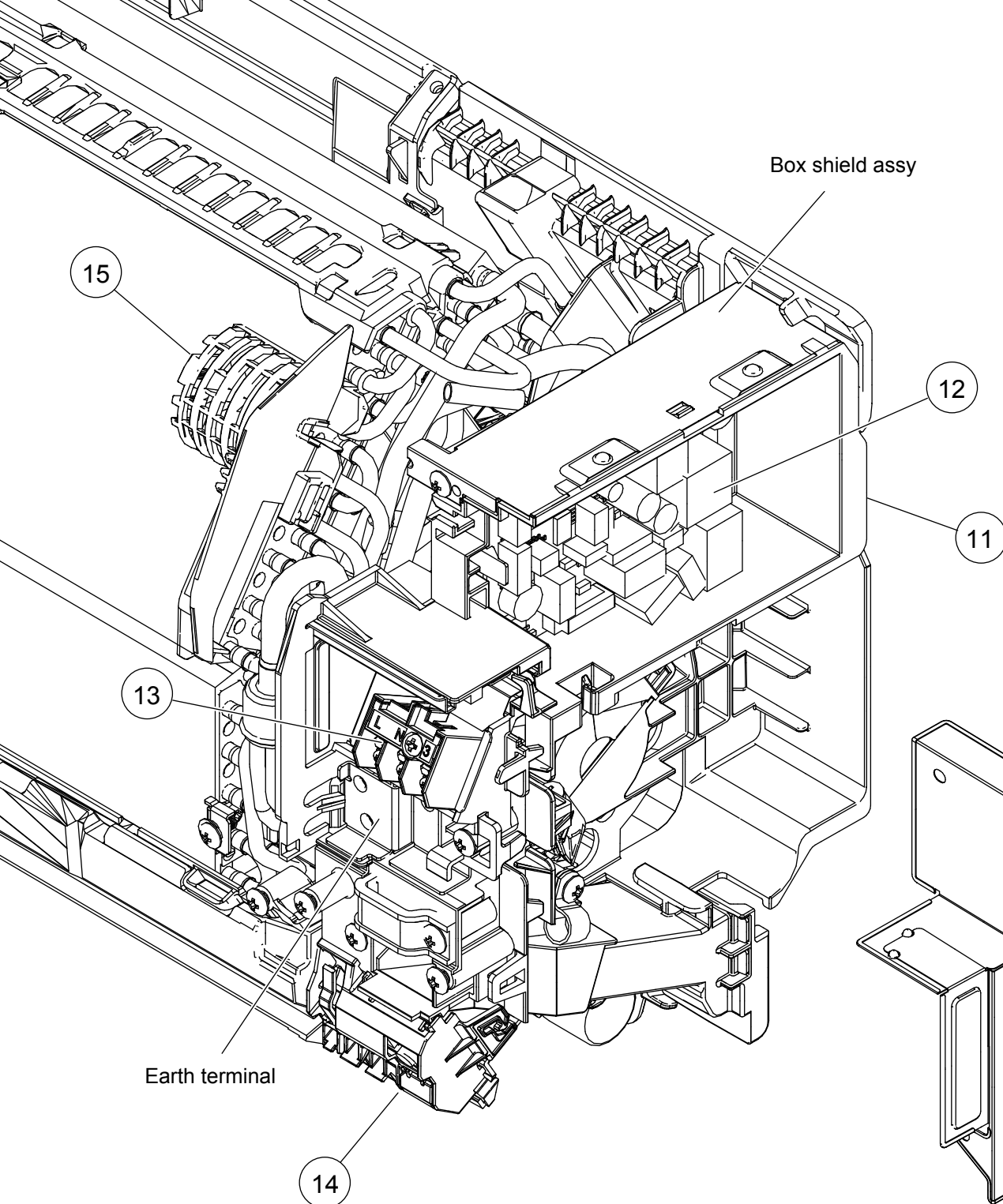
Ref.	Description	Part number	
41	Condenser A Sub Assy	9374420452	
42	Solenoid	9900165055	
43	4-way Valve Assy	9374425457	
44	Accumulator Sub Assy	9374426218	
45	Compressor	9810244000	
46	Condensing Pipe C Assy	9375241049	
47	Expansion Valve Coil (A=Red)	9970101069	
48	Expansion Valve Coil (B=White)	9970101038	
49	Expansion Valve Assy	9370947151	
50	3-way Valve Assy	9377958013	
51	2-way Valve Assy	9375614027	

PARTS

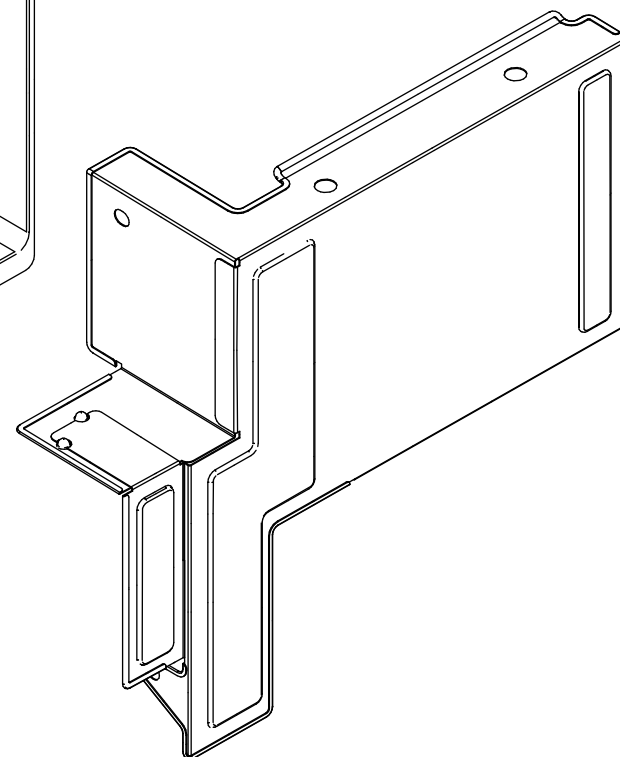
INDOOR UNIT
COMPACT WALL MOUNTED
ASU7RLF1
ASU9RLF1
ASU12RLF1



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

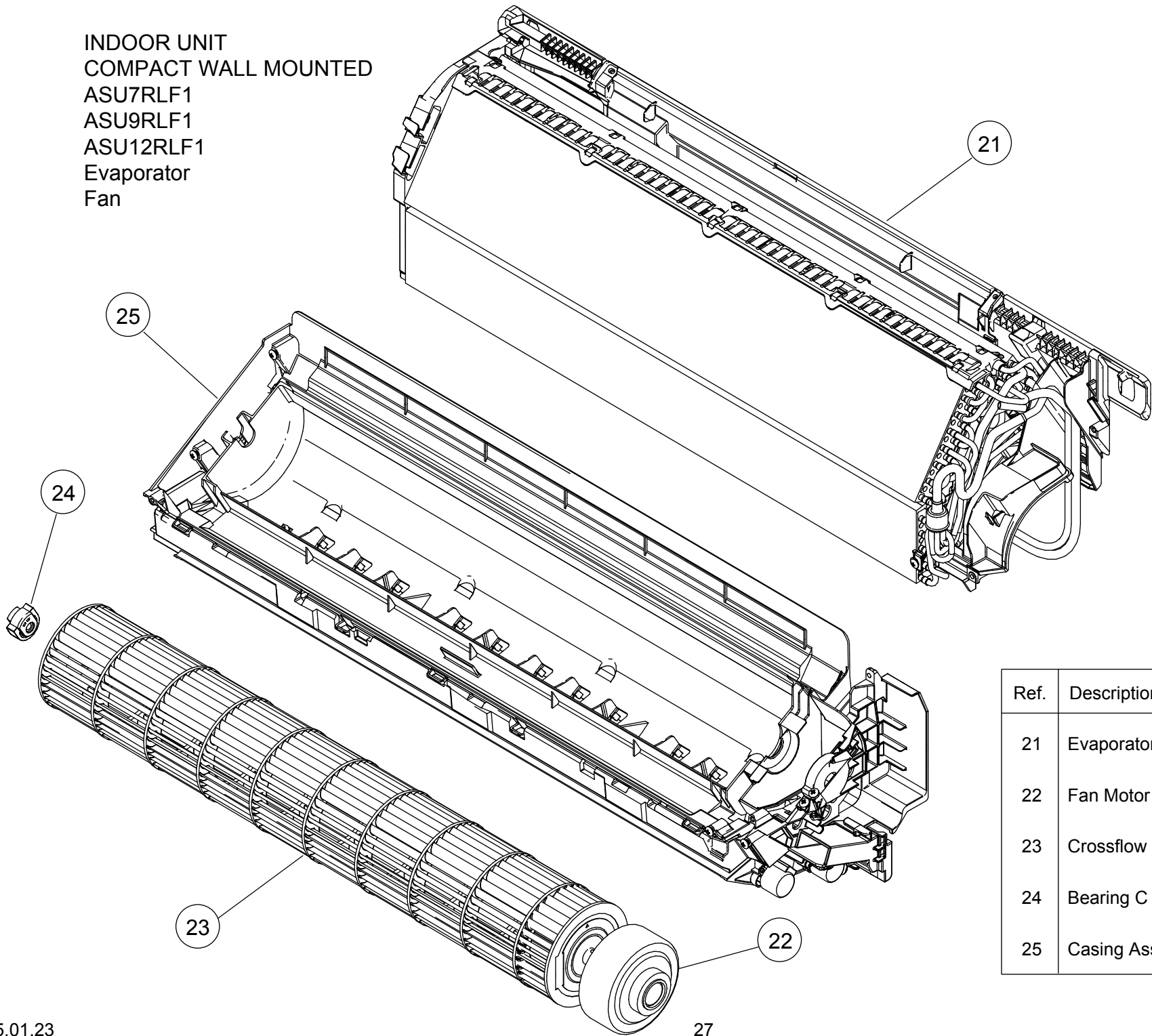


Ref.	Description	Part number	
11	Control Box	9332892024	
12	Main PCB (ASU7RLF1)	9709427354	
12	Main PCB (ASU9RLF1)	9709427330	
12	Main PCB (ASU12RLF1)	9709427347	
13	Terminal	9900720001	
14	Display Assy	9709430019	
15	Room Thermistor Holder	9332868005	
--	Thermistor Assy	9900714024	



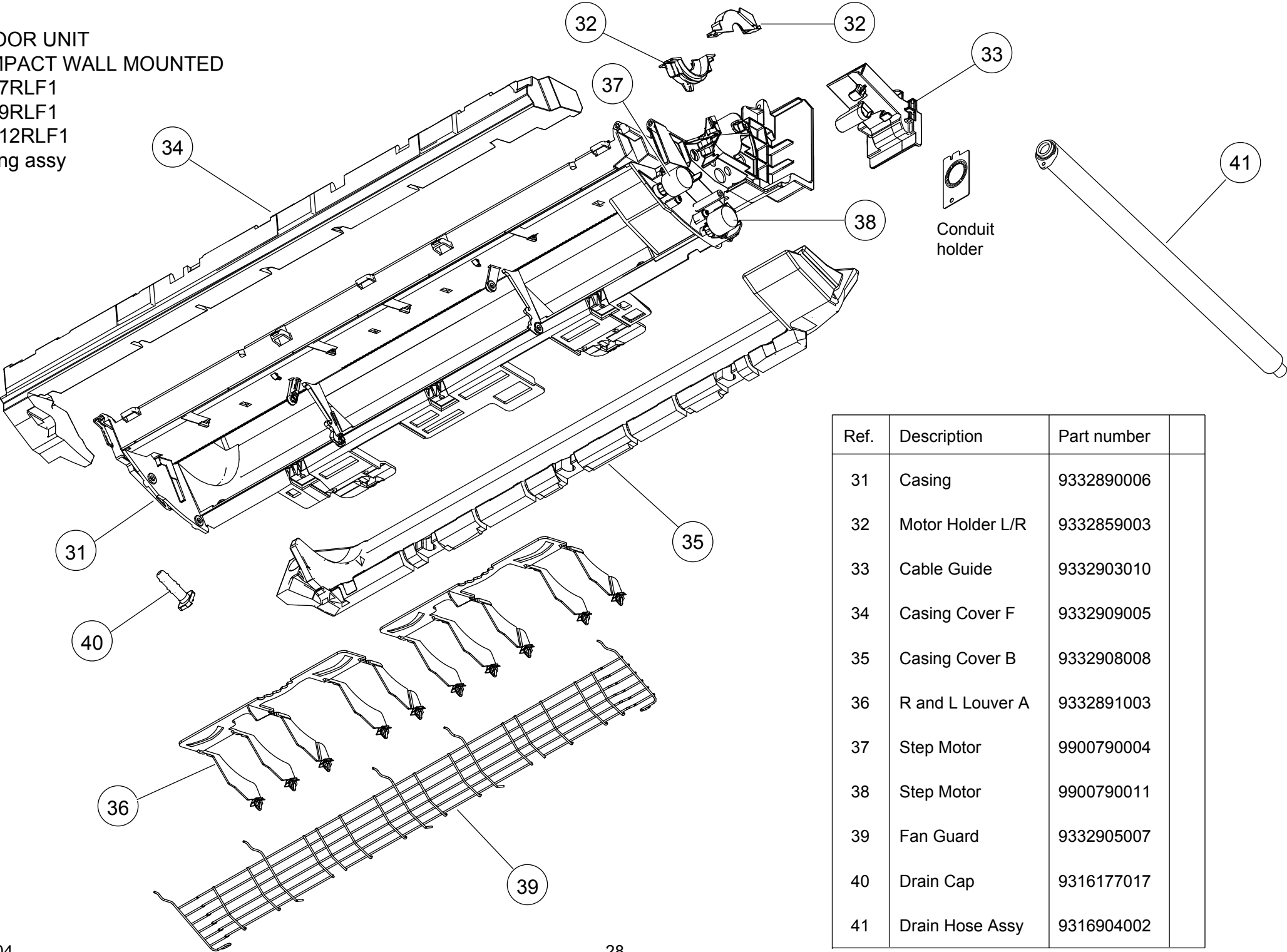
INDOOR UNIT
COMPACT WALL MOUNTED
ASU7RLF1
ASU9RLF1
ASU12RLF1
Control box

INDOOR UNIT
COMPACT WALL MOUNTED
ASU7RLF1
ASU9RLF1
ASU12RLF1
Evaporator
Fan



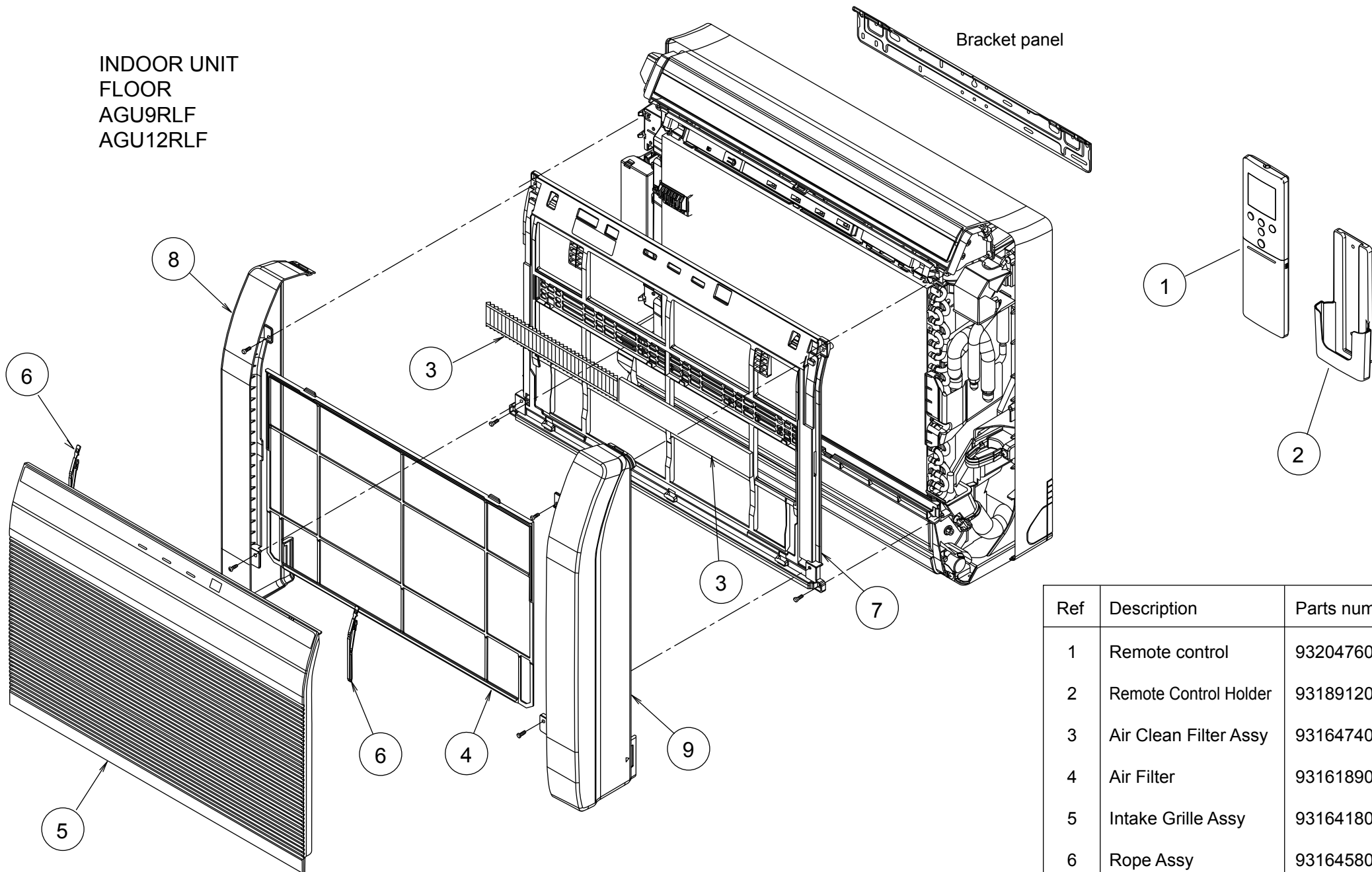
Ref.	Description	Part number	
21	Evaporator Total Assy	9332989090	
22	Fan Motor	9603269012	
23	Crossflow Fan Assy	9316830004	
24	Bearing C Assy	9306628017	
25	Casing Assy	9333009056	

INDOOR UNIT
COMPACT WALL MOUNTED
ASU7RLF1
ASU9RLF1
ASU12RLF1
Casing assy



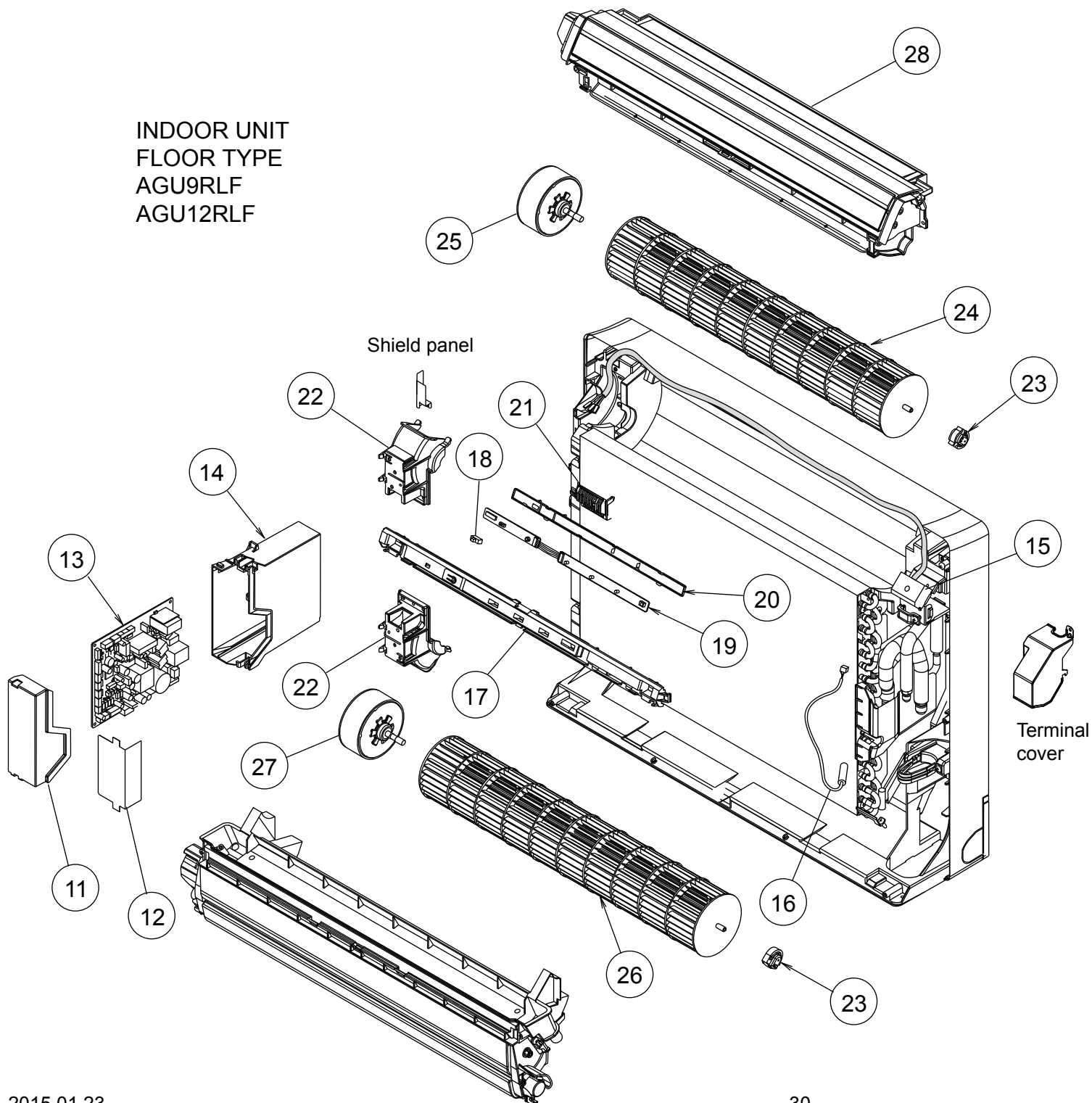
Ref.	Description	Part number	
31	Casing	9332890006	
32	Motor Holder L/R	9332859003	
33	Cable Guide	9332903010	
34	Casing Cover F	9332909005	
35	Casing Cover B	9332908008	
36	R and L Louver A	9332891003	
37	Step Motor	9900790004	
38	Step Motor	9900790011	
39	Fan Guard	9332905007	
40	Drain Cap	9316177017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

INDOOR UNIT
FLOOR
AGU9RLF
AGU12RLF



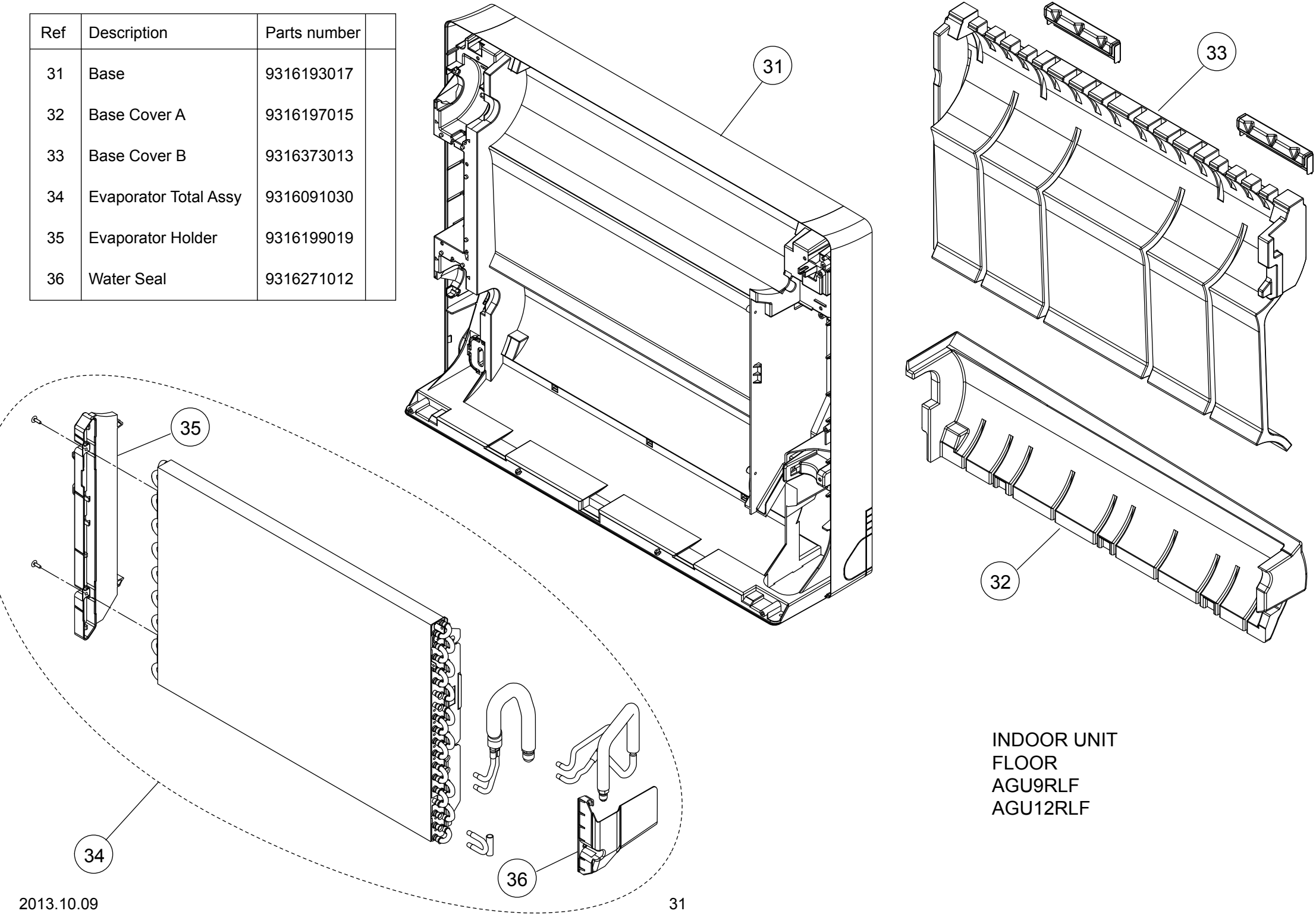
Ref	Description	Parts number	
1	Remote control	9320476007	
2	Remote Control Holder	9318912005	
3	Air Clean Filter Assy	9316474017	
4	Air Filter	9316189027	
5	Intake Grille Assy	9316418097	
6	Rope Assy	9316458017	
7	Front Panel	9316185012	
8	Front Panel L	9316187016	
9	Front Panel R	9316186019	

INDOOR UNIT
FLOOR TYPE
AGU9RLF
AGU12RLF

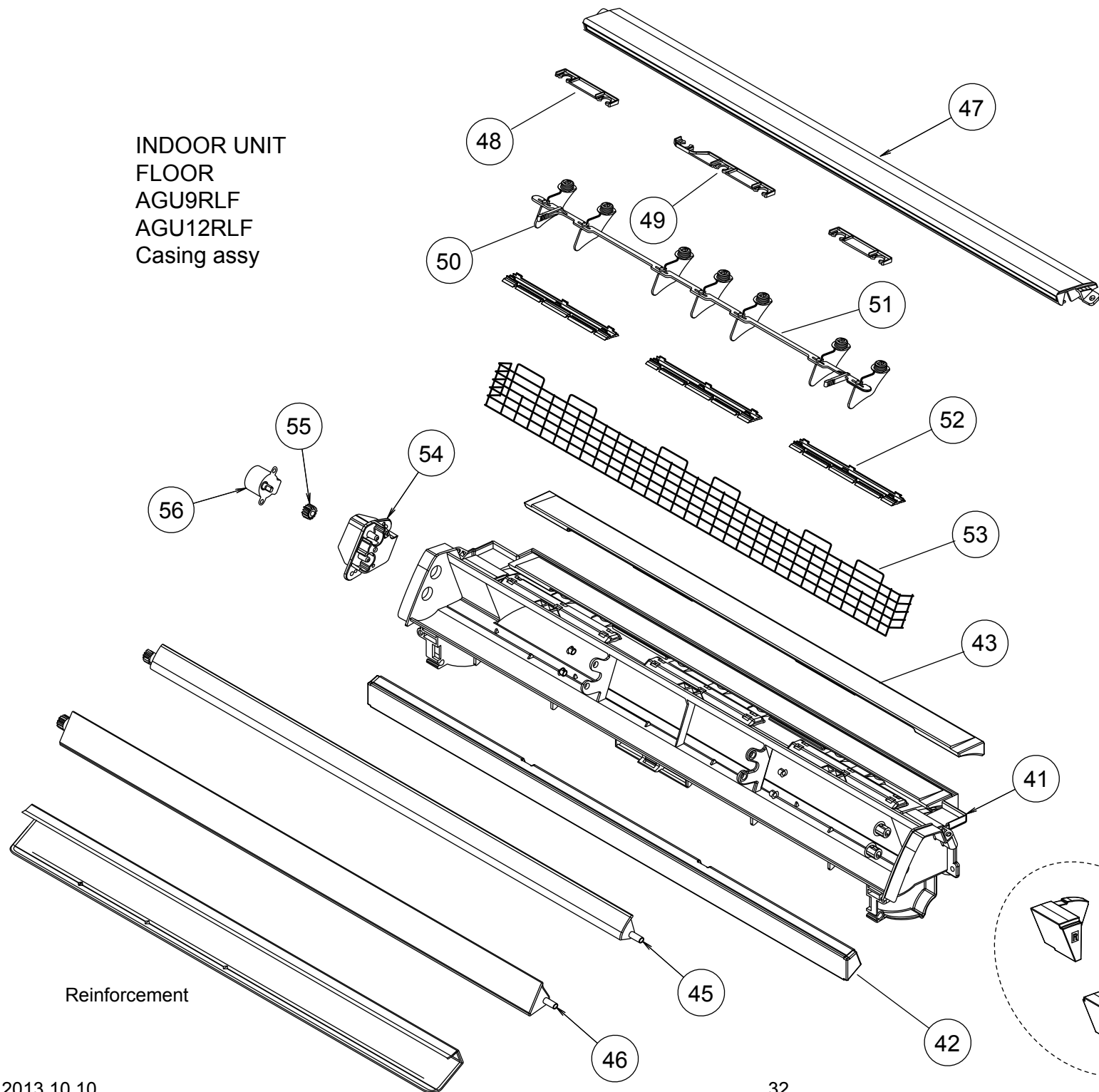


Ref	Description	Parts number	
11	Control Cover	9316201026	
12	Control Inner Cover	9316487017	
13	Main PCB (AGU9RLF)	9708532165	
13	Main PCB (AGU12RLF)	9708532172	
14	Control Box	9316200029	
15	Terminal	9900385026	
16	Pipe Thermistor	9900425012	
17	Display Case	9316194014	
18	Slide Switch Cover	9316267015	
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	9316091030	
35	Evaporator Holder	9316199019	
36	Water Seal	9316271012	

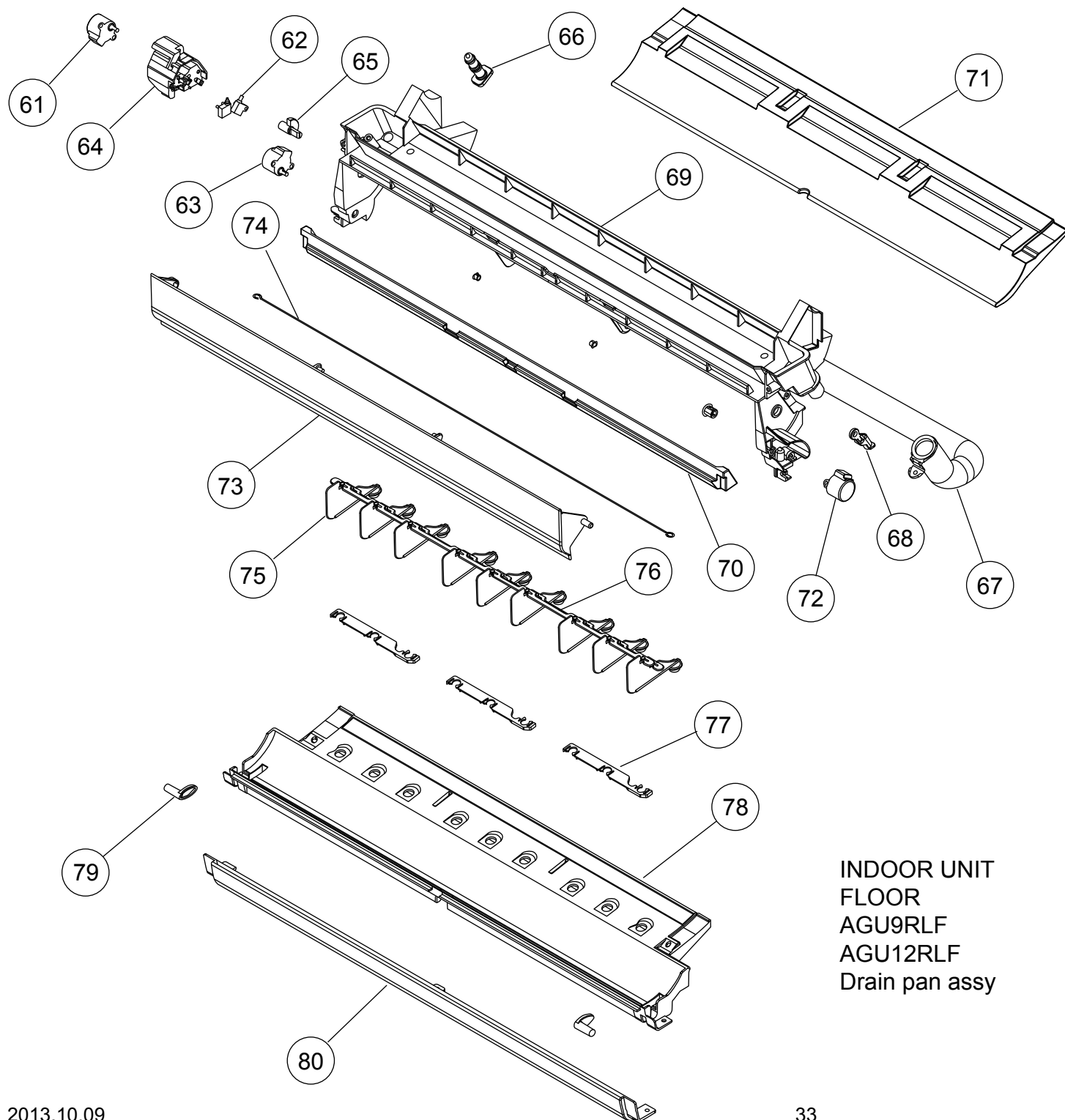


INDOOR UNIT
FLOOR
AGU9RLF
AGU12RLF
Casing assy



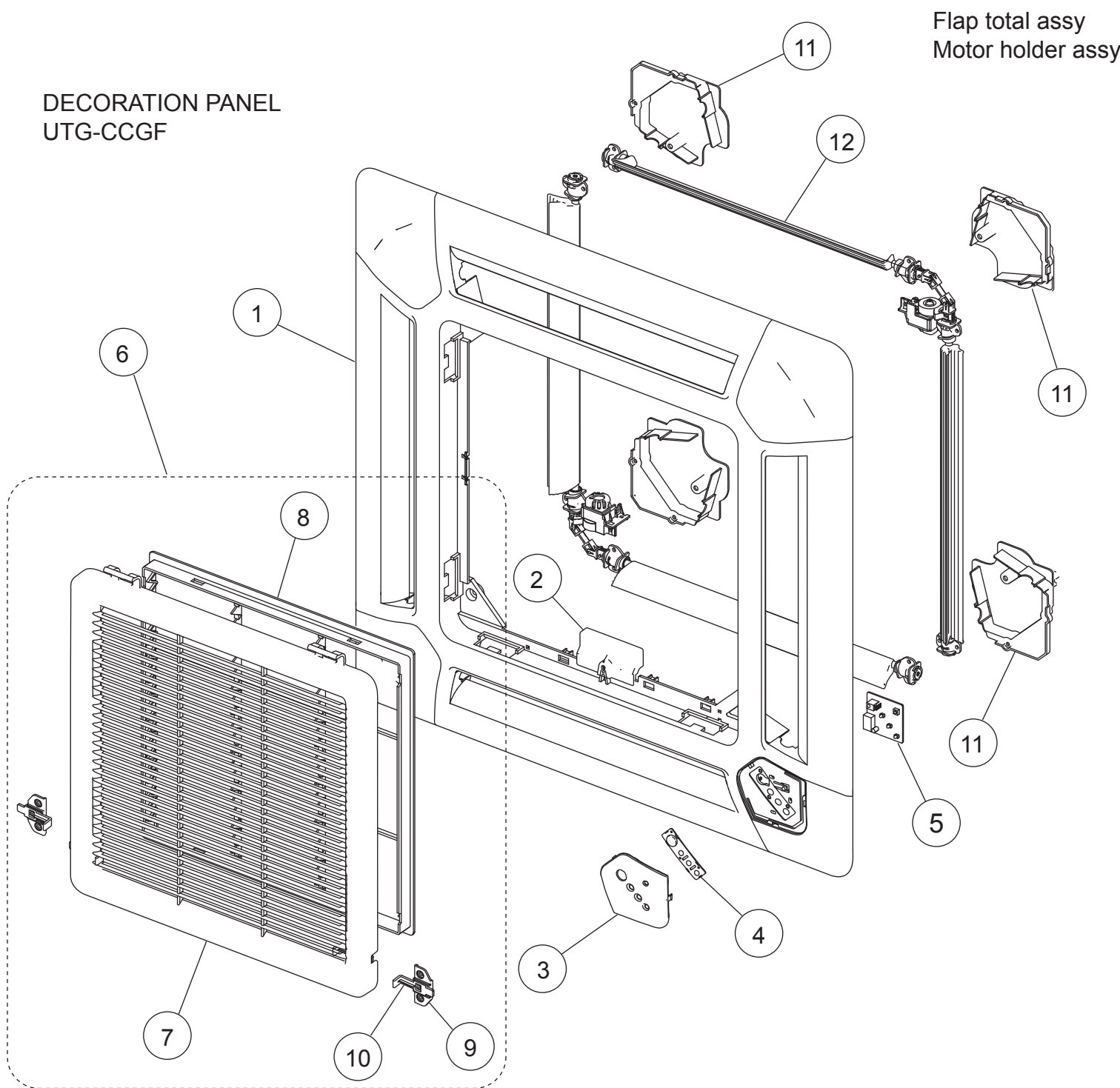
Ref	Description	Parts number	
41	Casing	9316204010	
42	Casing Cover F	9316308015	
43	Casing Cover B	9316273016	
44	Casing Cover LR	9316310018	
45	Louver U (upper)	9316205017	
46	Louver Z (lower)	9316206014	
47	Top Cover	9316207011	
48	Spacer C	9315281012	
49	Spacer D	9315282019	
50	R and L Louver U	9316208018	
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

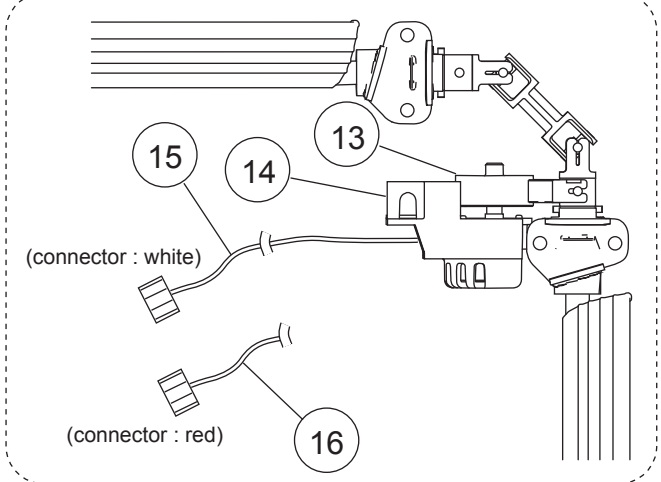


Ref	Description	Parts number	
61	Motor Step (Damper)	9900384050	
62	Micro Switch (Limit Switch)	9900424015	
63	Motor Step (Damper Lock Left)	9900384067	
64	Limit Switch Cover	9316217010	
65	Key Top	9316218017	
66	Drain Cap	9316177017	
67	Drain Hose Assy	9314147029	
68	Drain Holder	9316384019	
69	Drain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

DECORATION PANEL
UTG-CCGF

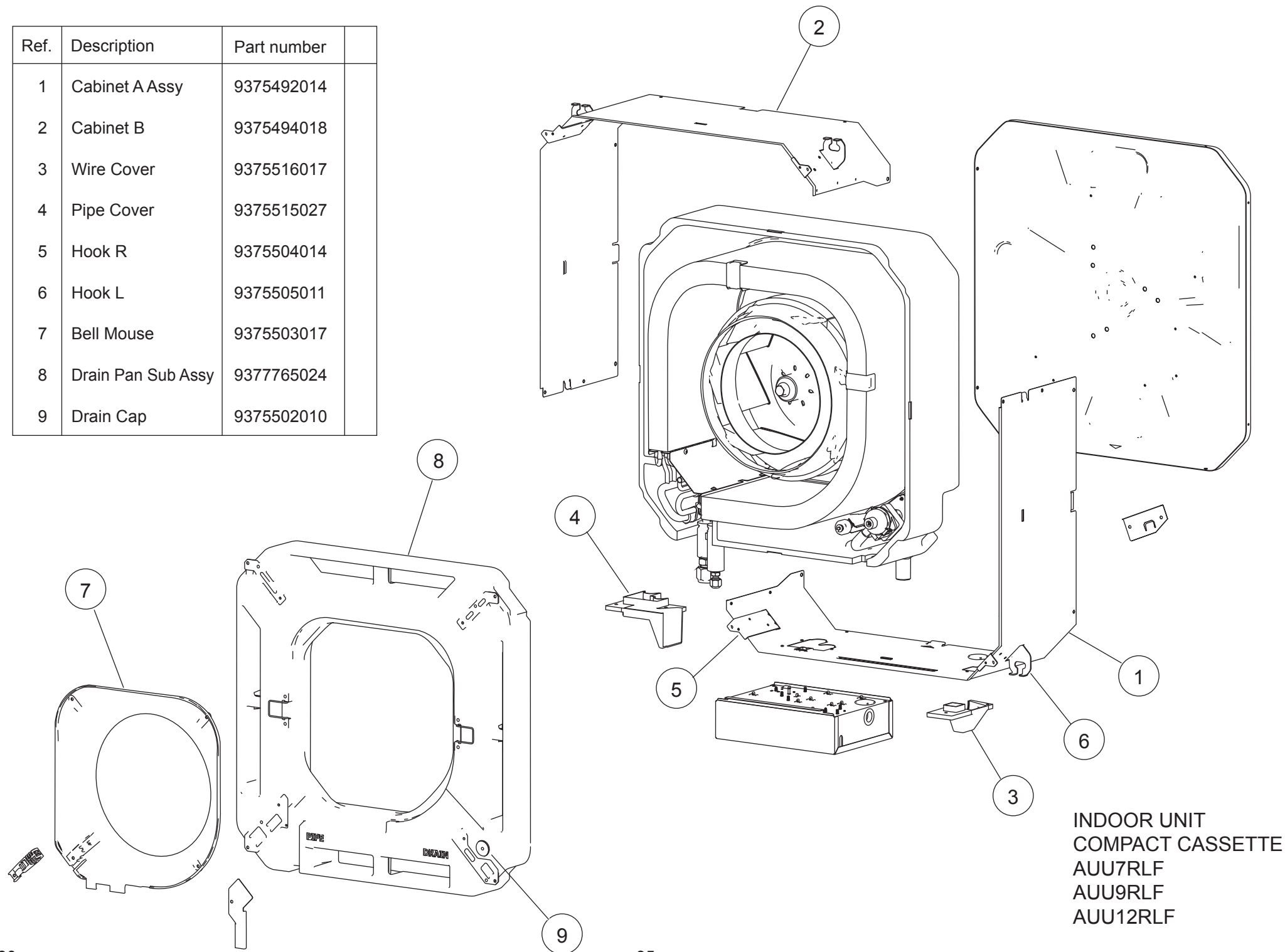


Flap total assy
Motor holder assy



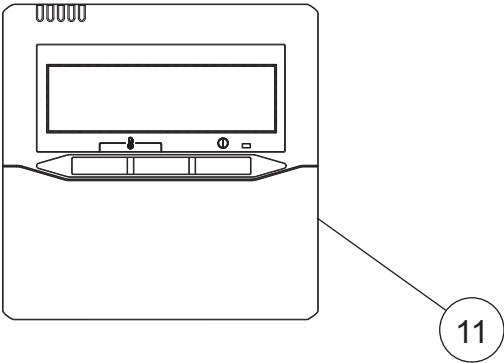
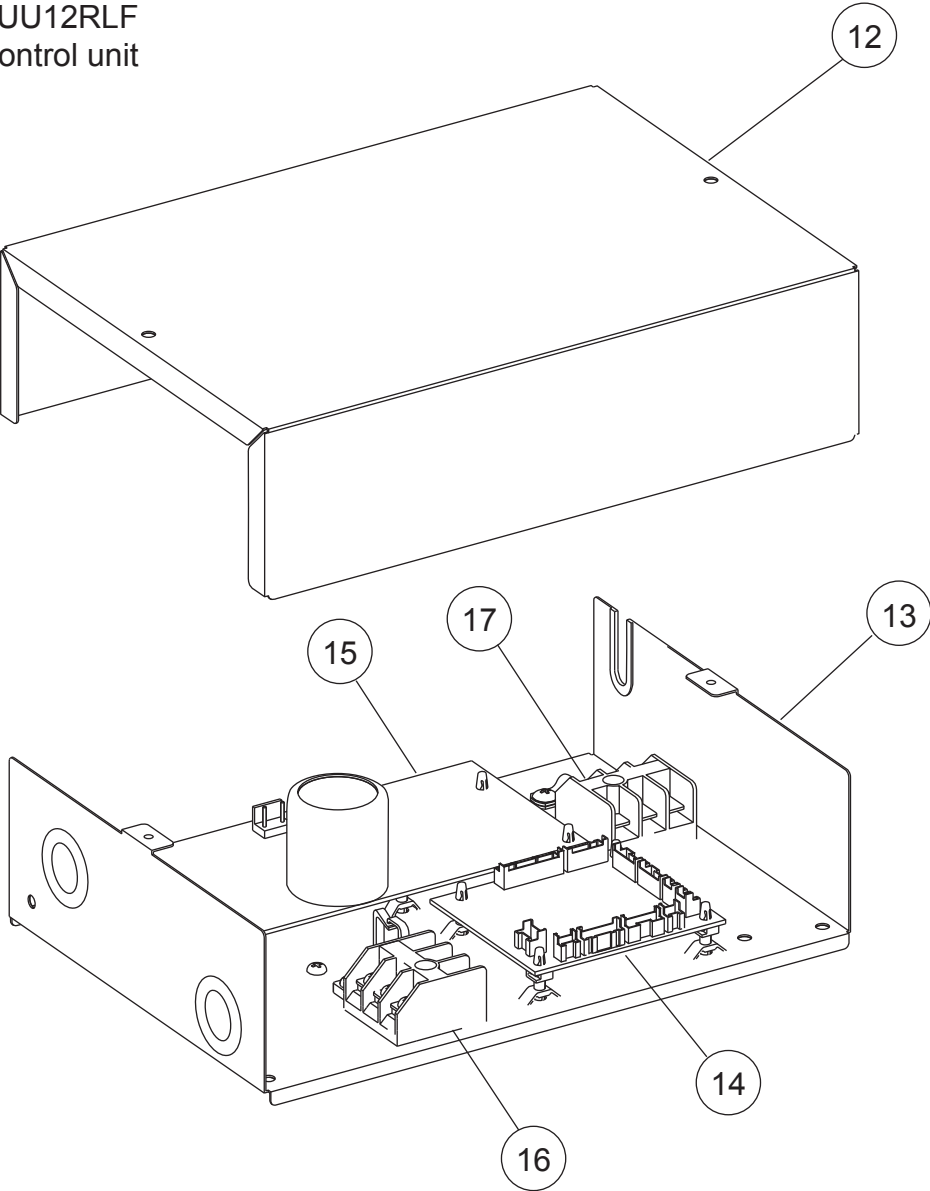
Ref.	Description	Part number	
1	Decoration Panel without Insulations	9375525033	
2	Connector Cover	9375549015	
3	Display Panel	9375529123	
4	Receiver Window	9375547011	
5	Indicator PCB	9707371031	
6	Intake Grille Assy	9375726027	
7	Intake Grille	9375531027	
8	Long Life Filter	9375533014	
9	Hook Bracket	9375546014	
10	Grille Hook	9375532024	
11	Panel Cover without Insulations	9375530013	
12	Flap Total Assy	9377760029	
13	Gear A	9375536015	
14	Motor Holder	9375535018	
15	Step Motor (white connector)	9900139070	
16	Step Motor (red connector)	9900139087	

Ref.	Description	Part number	
1	Cabinet A Assy	9375492014	
2	Cabinet B	9375494018	
3	Wire Cover	9375516017	
4	Pipe Cover	9375515027	
5	Hook R	9375504014	
6	Hook L	9375505011	
7	Bell Mouse	9375503017	
8	Drain Pan Sub Assy	9377765024	
9	Drain Cap	9375502010	

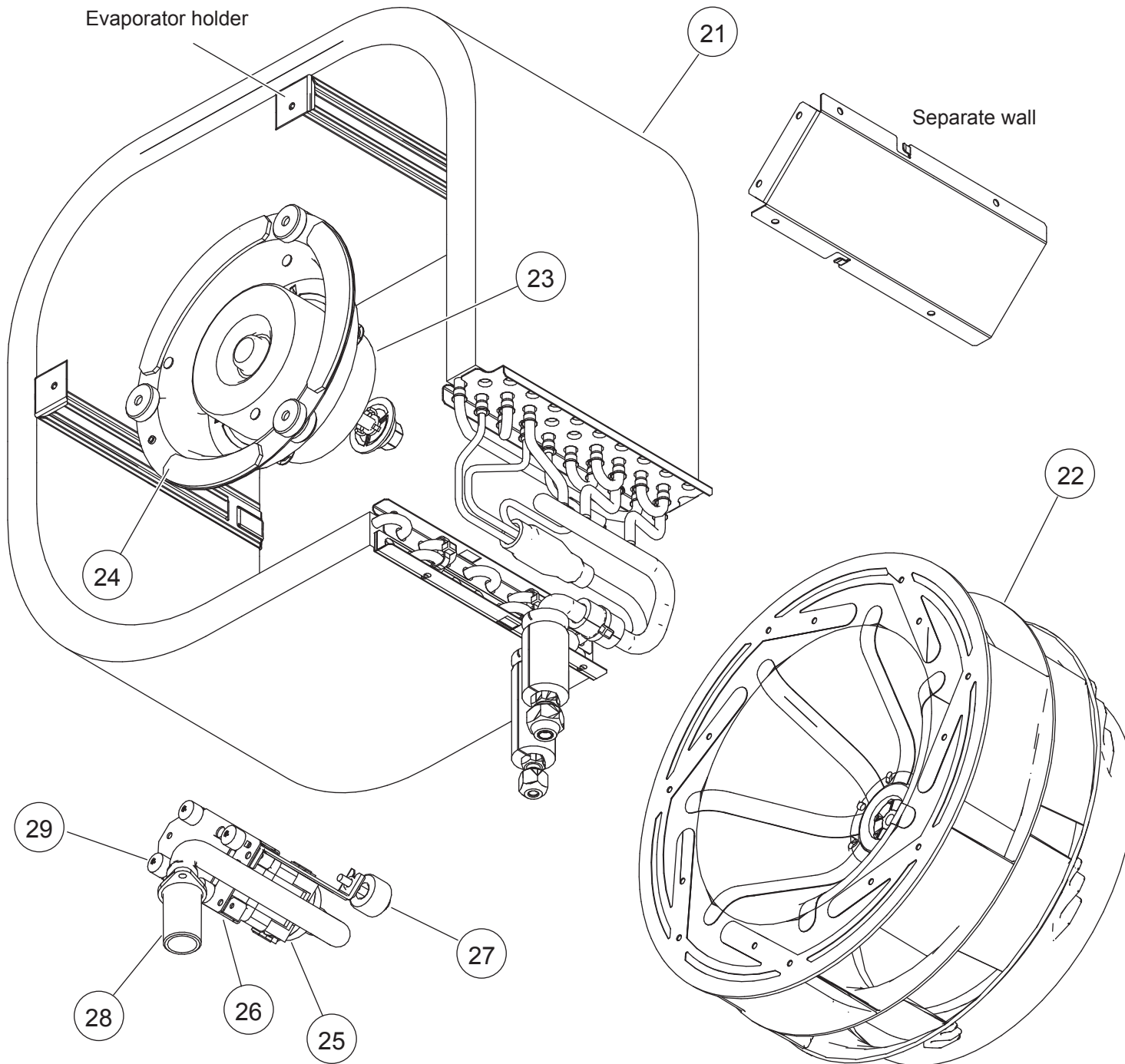


INDOOR UNIT
COMPACT CASSETTE
AUU7RLF
AUU9RLF
AUU12RLF

INDOOR UNIT
COMPACT CASSETTE
AUU7RLF
AUU9RLF
AUU12RLF
Control unit

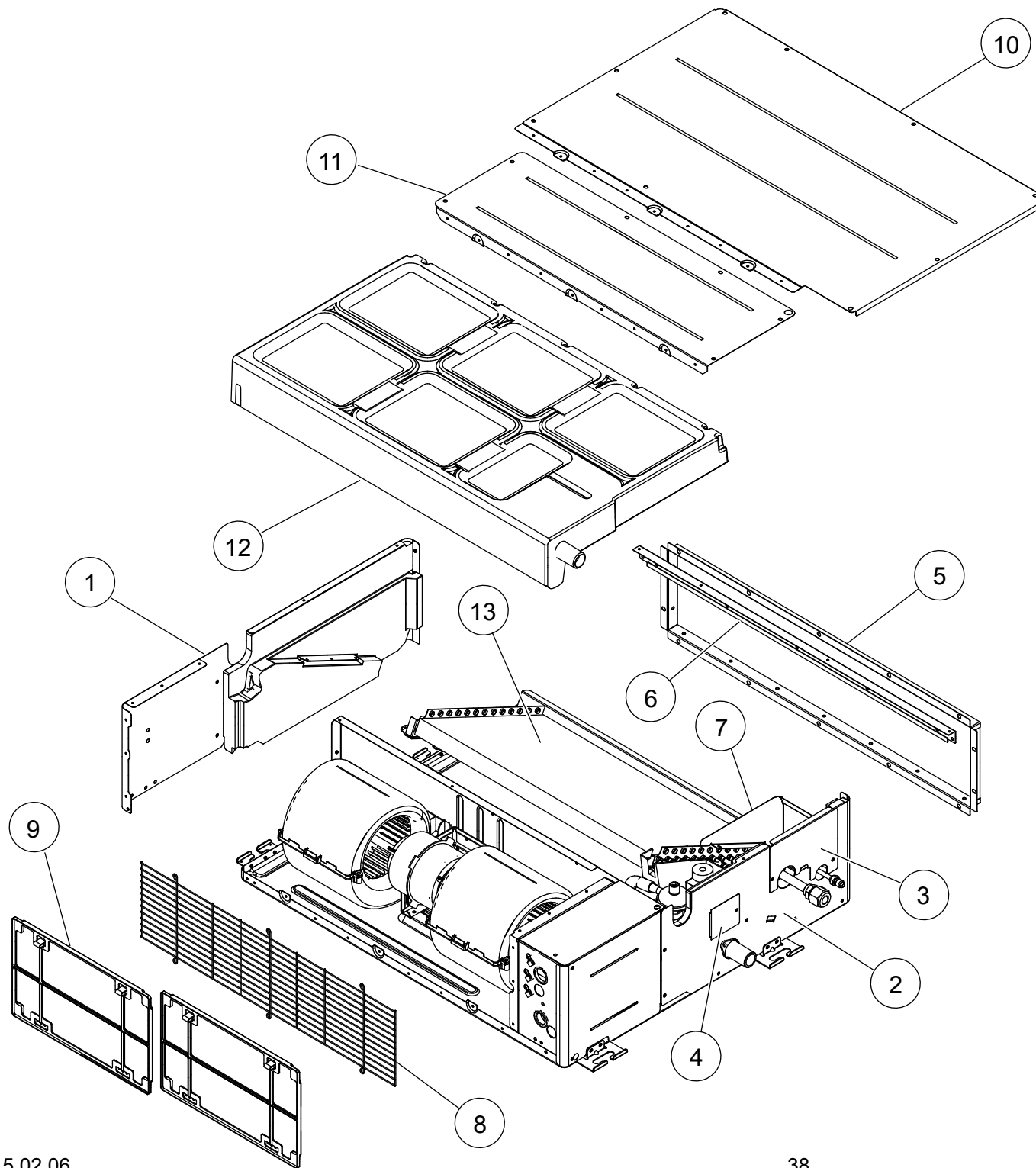


Ref.	Description	Part number	
11	Remote Control	9318593006	
12	Control Box Cover	9375512019	
13	Control Box A Assy	9379250016	
14	Main PCB (AUU7)	9709928011	
14	Main PCB (AUU9)	9709928028	
14	Main PCB (AUU12)	9709928035	
15	Power Supply PCB	9707398236	
16	Terminal	9306489045	
17	Terminal	9703345012	
--	Pipe Thermistor	9900814007	
--	Room Thermistor	9900826000	



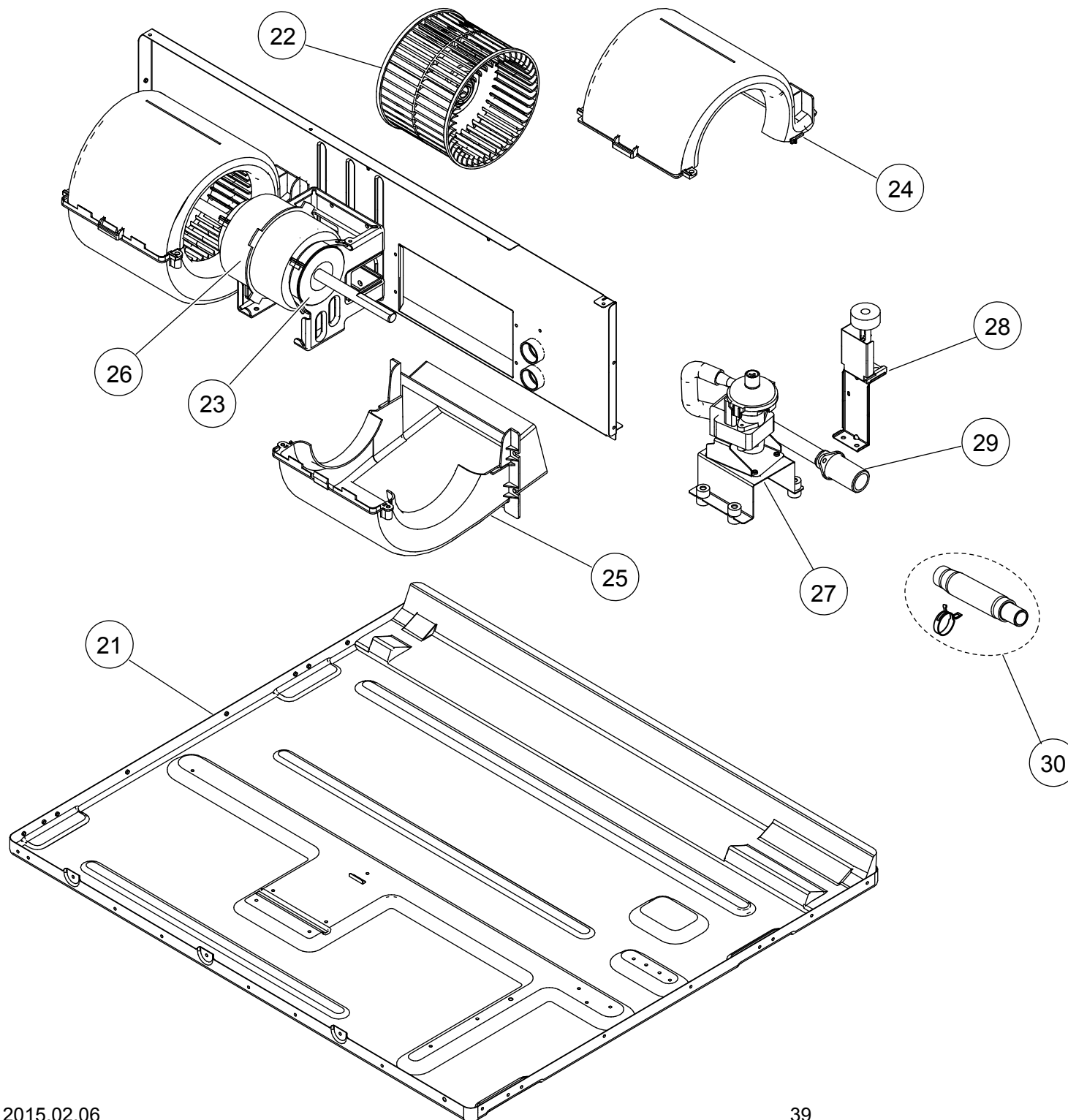
INDOOR UNIT
COMPACT CASSETTE
AUU7RLF
AUU9RLF
AUU12RLF

Ref.	Description	Part number	
21	Evaporator Total Assy (7)	9377914040	
21	Evaporator Total Assy (9, 12)	9377914033	
22	2 Stage Turbo Fan Assy	9375480011	
23	Fan Motor	9602870004	
24	Fan Motor Holder	9375552015	
25	Pump Assy	9900472030	
26	Drain Pump Holder B	9375518011	
27	Float Switch	9900361037	
28	Drain Port Sub Assy	9375718015	
29	Rubber (Pump)	9378426016	



INDOOR UNIT
SLIM DUCT
ARU7RLF
ARU9RLF
ARU12RLF
(Serial number : R)
Refer to the service
bulletin RAC-0059

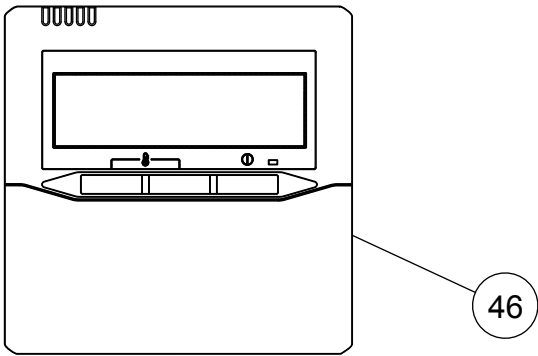
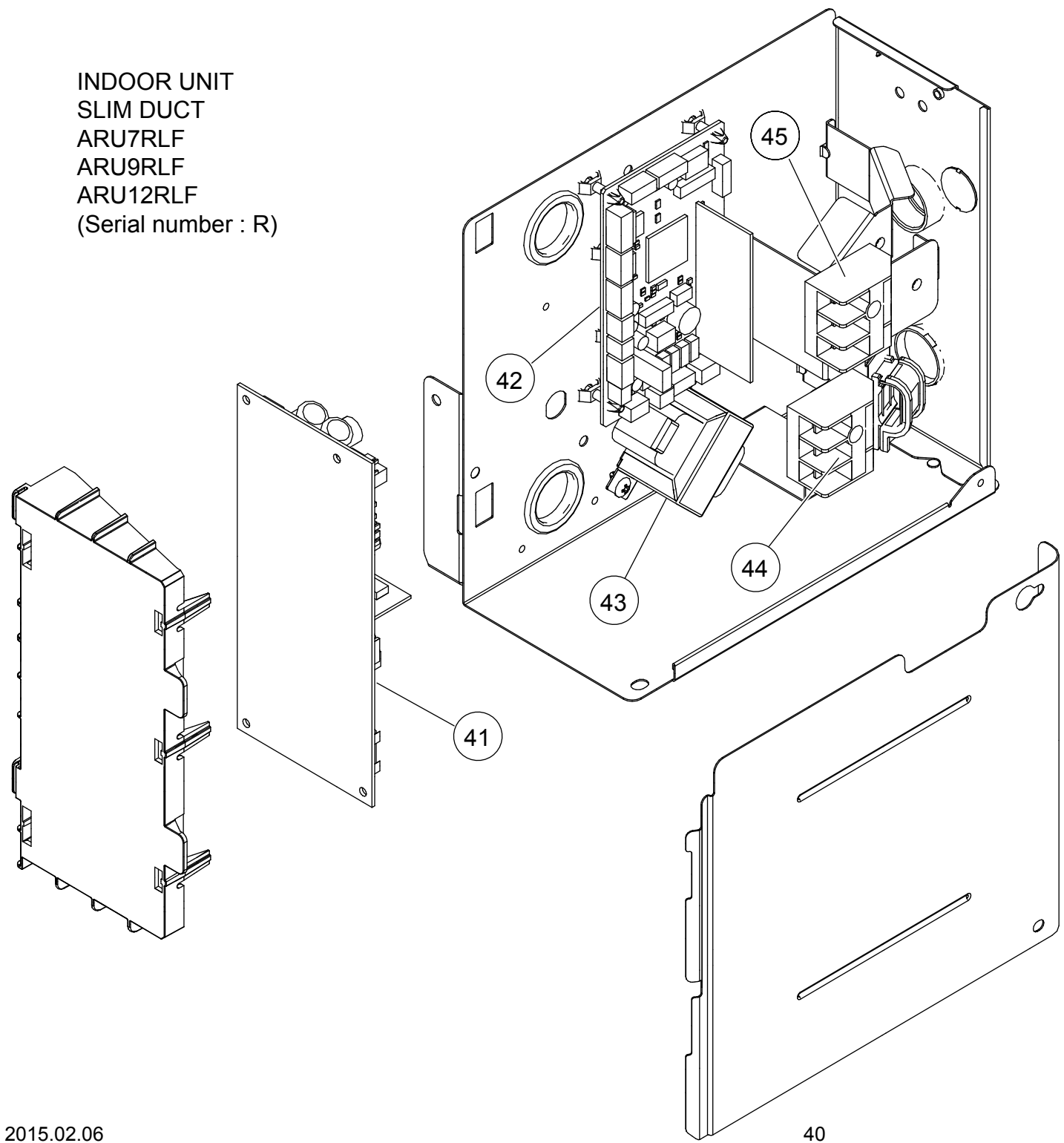
Ref	Description	Parts number	
1	Side Panel R Sub Assy	9379906012	
2	Side Panel L Sub Assy	9379907019	
3	Pipe Panel Sub Assy	9379900003	
4	Panel (Window) Sub Assy	9379915007	
5	Outlet Frame Assy	9380042006	
6	Front Panel (2 Fan)	9380594000	
7	Valve Cover Sub Assy	9379576017	
8	Fan Guard (2 Fan)	9380589006	
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
(Serial number : R)

Ref	Description	Parts number	
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	

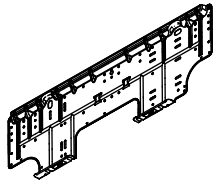
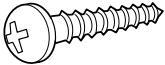
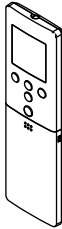


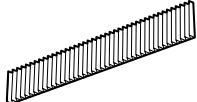
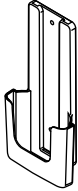
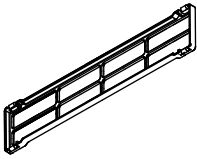
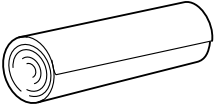
INDOOR UNIT
SLIM DUCT
ARU7RLF
ARU9RLF
ARU12RLF
(Serial number : R)



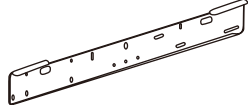
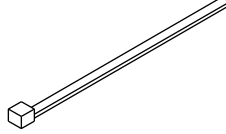
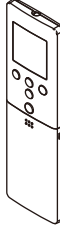
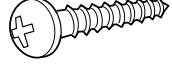

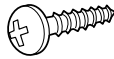

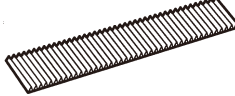
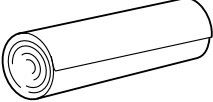
Ref	Description	Parts number	
41	Power Supply PCB	9707398243	
42	Main PCB (ARU7RLF)	9709928059	
42	Main PCB (ARU9RLF)	9709928066	
42	Main PCB (ARU12RLF)	9709928073	
43	Reactor Assy	9707457018	
44	Terminal 3P	9306489045	
45	Terminal 3P (Wired Remote)	9703345012	
46	Wired Remote Control	9318593006	
--	Room Thermistor	9900653019	
--	Pipe Thermistor	9900498016	

ACCESSORIES





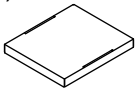
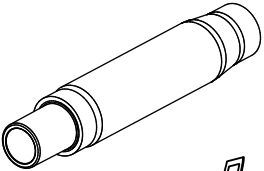

INDOOR UNIT COMPACT WALL MOUNTED ASU7RLF1, ASU9RLF1, ASU12RLF1

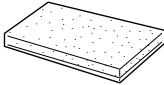
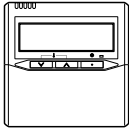


Parts	Q'ty	Parts	Q'ty
Bracket Panel 	1	Tapping screw (M4 x 25 mm) 	5
Remote control 	1	Tapping screw (M3 x 12 mm) 	2
Battery 	2	Air cleaning filter 	2
Remote control holder 	1	Filter holder 	2
Cloth tape 	1		

INDOOR UNIT FLOOR AGU9RLF, AGU12RLF

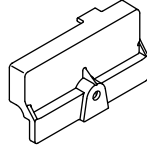
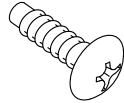
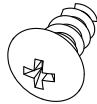
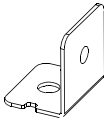
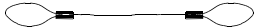
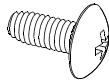
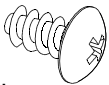
Parts	Q'ty	Parts	Q'ty
Wall hook bracket 	1	Cable tie 	1
Remote control 	1	Tapping screw (M4 x 25 mm) 	9
Battery 	2	Tapping screw (M3 x 12 mm) 	2
Remote control holder 	1	Air cleaning filter 	2
Cloth tape 	1		

INDOOR UNIT
COMPACT CASSETTE
AUU7RLF, AUU9RLF, AUU12RLF

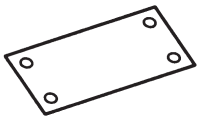

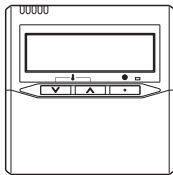
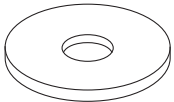
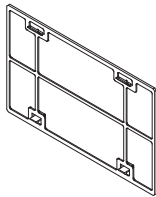
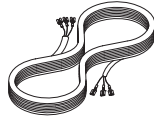

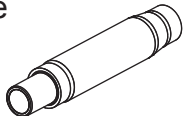

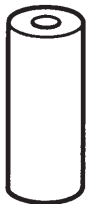


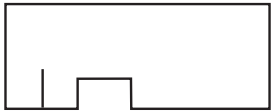
Parts	Q'ty
Coupler heat insulation (Large)  For indoor side pipe joint (Gas pipe)	1
Coupler heat insulation (Small)  For indoor side pipe joint (Liquid pipe)	1
Special nut A (Large flange)  For installing indoor unit	4
Special nut B (Small flange)  For installing indoor unit	4
Template (carton top)  For ceiling openings cutting Also used as packing	1
Drain hose  Hose band 	1

Parts	Q'ty
Drain hose insulation  For installing drain pipe	1
Remote control  For connecting a remote control	1
Remote control cable  For connecting a remote control	1
Tapping screw (M4 x 16 mm)  For installing a wired remote control	2

DECORATION PANEL
UTG-CCGF

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
SLIM DUCT
ARU7RLF, ARU9RLF, ARU12RLF

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

1501G4402