

INVERTER MULTI  
AIR CONDITIONER

# SERVICE MANUAL



Outdoor unit	Indoor unit
AOU18RLXFZ	ASU7RLF
	ASU9RLF
	ASU12RLF
	AUU9RLF
	AUU12RLF
	UTG-CCGF
	ARU9RLF
	ARU12RLF

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# SPECIFICATIONS

## OUTDOOR UNIT

### ELECTRICAL SPECIFICATIONS

TYPE	Three room multi inverter	
MODEL NAME	AOU18RLXFZ	
COOLING CAPACITY	18,000 BTU (5.28 kW)	
HEATING CAPACITY	22,000 BTU (6.42 kW)	
POWER SUPPLY	208 V / 230 V	
FREQUENCY	60 Hz	
RUNNING CURRENT	Cooling	6.3 A
	Heating	8.2 A
INPUT WATT	Cooling	1.44 kW
	Heating	1.87 kW
EER	Cooling	12.5 BTU/W (3.67 kW/kW)
	Heating	3.44 kW/kW
AIR CIRCULATION HIGH	Cooling	1,795 cfm (3,050 m <sup>3</sup> /hr)
	Heating	1,619 cfm (2,750 m <sup>3</sup> /hr)

### FAN MOTOR

DISCRIMINATION	MFE-60TVT
COOLING	730 r.p.m.
HEATING	660 r.p.m.

### NOISE LEVEL

COOLING	49 dB
HEATING	49 dB

### COMPRESSOR AND REFRIGERANT

COMPRESSOR TYPE	Hermetic type, Inverter, 4 poles, 3-phase, DC motor, Twin Rotary	
DISCRIMINATION	DA150A1F-20NA	
WEIGHT (with oil)	22 lb 13/16 oz (10.0 kg)	
PRECHARGED REFRIGERANT	4 lb 13-5/8 oz (2,200 g)	
REFRIGERANT TYPE	R410A	
FULL CHARGE	Total pipe length 98 ft (30 m)	4 lb 13-5/8 oz (2,200 g)
	131 ft (40 m)	5 lb 4-21/32 oz (2,400 g)
	164 ft (50 m)	5 lb 11-5/8 oz (2,600 g)
ADDITIONAL CHARGE	9/32 oz/ft (20 g/m)	
MAXIMUM PIPE LENGTH (total)	164 ft (50 m)	
MINIMUM PIPE LENGTH (total)	49 ft (15 m)	
MAXIMUM PIPE LENGTH (each unit)	82 ft (25 m)	
MINIMUM PIPE LENGTH (each unit)	16 ft (5 m)	
MAX ELEVATION (between indoor units)	33 ft (10 m)	
MAX ELEVATION (between indoor and outdoor)	49 ft (15 m)	

### MEASUREMENT

DIMENSIONS	H x W x D	27-9/16 x 35-7/16 x 13 inch (700 x 900 x 330 mm)
WEIGHT	Net / Shipping	119 lb 1 oz / 134 lb 8 oz (54 kg / 61 kg)

**INDOOR UNIT  
COMPACT WALL MOUNTED**

**ELECTRICAL DATA**

MODEL NAME	ASU7RLF	ASU9RLF	ARU12RLF
CAPACITY	2.0 kW class	2.5 kW class	3.5 kW class
POWER CONSUMPTION	15 W	17 W	22 W
RUNNING CURRENT	0.13 A	0.15 A	0.19 A

**FAN MOTOR**

DISCRIMINATION		MFD-12TYAN			
FAN SPEED	Cooling	High	1,050 r.p.m.	1,100 r.p.m.	1,200 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	710 r.p.m.	710 r.p.m.	710 r.p.m.
	Heating	High	1,050 r.p.m.	1,100 r.p.m.	1,200 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	720 r.p.m.	720 r.p.m.	720 r.p.m.
AIR FLOW	Cooling	High	330 cfm (560 m <sup>3</sup> /h)	353 cfm (600 m <sup>3</sup> /h)	388 cfm (660 m <sup>3</sup> /h)
		Medium	294 cfm (500 m <sup>3</sup> /h)	306 cfm (520 m <sup>3</sup> /h)	330 cfm (560 m <sup>3</sup> /h)
		Low	253 cfm (430 m <sup>3</sup> /h)	253 cfm (430 m <sup>3</sup> /h)	265 cfm (450 m <sup>3</sup> /h)
		Quiet	200 cfm (340 m <sup>3</sup> /h)	200 cfm (340 m <sup>3</sup> /h)	200 cfm (340 m <sup>3</sup> /h)
	Heating	High	330 cfm (560 m <sup>3</sup> /h)	353 cfm (600 m <sup>3</sup> /h)	388 cfm (660 m <sup>3</sup> /h)
		Medium	294 cfm (500 m <sup>3</sup> /h)	306 cfm (520 m <sup>3</sup> /h)	330 cfm (560 m <sup>3</sup> /h)
		Low	253 cfm (430 m <sup>3</sup> /h)	253 cfm (430 m <sup>3</sup> /h)	277 cfm (470 m <sup>3</sup> /h)
		Quiet	206 cfm (350 m <sup>3</sup> /h)	206 cfm (350 m <sup>3</sup> /h)	206 cfm (350 m <sup>3</sup> /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	25 dB(A)	25 dB(A)	25 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	25 dB(A)	25 dB(A)	25 dB(A)

**MEASUREMENTS**

DIMENSIONS	H x W x D	11-1/16 x 31-1/16 x 8 inch (280 x 790 x 203 mm)
WEIGHT	Net / Shipping	18 lb. / 23 lb. (8.0 kg / 10.5 kg)

INDOOR UNIT  
COMPACT CASSETTE

ELECTRICAL DATA

MODEL NAME	AUU9RLF	AUU12RLF
CAPACITY	2.5 kW class	3.5 kW class
POWER CONSUMPTION	18 W	23 W
RUNNING CURRENT	0.15 A	0.19 A

FAN MOTOR

DISCRIMINATION			MFF-24VVL	
FAN SPEED	Cooling	High	590 r.p.m.	660 r.p.m.
		Medium	540 r.p.m.	580 r.p.m.
		Low	490 r.p.m.	520 r.p.m.
		Quiet	440 r.p.m.	460 r.p.m.
	Heating	High	590 r.p.m.	650 r.p.m.
		Medium	540 r.p.m.	580 r.p.m.
		Low	490 r.p.m.	520 r.p.m.
		Quiet	440 r.p.m.	460 r.p.m.
AIR FLOW	Cooling	High	318 cfm (540 m <sup>3</sup> /h)	359 cfm (610 m <sup>3</sup> /h)
		Medium	288 cfm (490 m <sup>3</sup> /h)	312 cfm (530 m <sup>3</sup> /h)
		Low	259 cfm (440 m <sup>3</sup> /h)	277 cfm (470 m <sup>3</sup> /h)
		Quiet	230 cfm (390 m <sup>3</sup> /h)	241 cfm (410 m <sup>3</sup> /h)
	Heating	High	318 cfm (540 m <sup>3</sup> /h)	359 cfm (610 m <sup>3</sup> /h)
		Medium	288 cfm (490 m <sup>3</sup> /h)	312 cfm (530 m <sup>3</sup> /h)
		Low	259 cfm (440 m <sup>3</sup> /h)	277 cfm (470 m <sup>3</sup> /h)
		Quiet	230 cfm (390 m <sup>3</sup> /h)	241 cfm (410 m <sup>3</sup> /h)
NOISE LEVEL	Cooling	High	33 dB(A)	37 dB(A)
		Medium	31 dB(A)	33 dB(A)
		Low	29 dB(A)	31 dB(A)
		Quiet	27 dB(A)	28 dB(A)
	Heating	High	34 dB(A)	37 dB(A)
		Medium	32 dB(A)	33 dB(A)
		Low	29 dB(A)	31 dB(A)
		Quiet	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 lb. / 40 lb. (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 lb. / 10 lb. (2.6 kg / 4.5 kg)

INDOOR UNIT  
SLIM DUCT

ELECTRICAL DATA

MODEL NAME	ARU9RLF	ARU12RLF
CAPACITY	2.5 kW class	3.5 kW class
POWER CONSUMPTION	49 W	58 W
RUNNING CURRENT	0.30 A	0.35 A

FAN MOTOR

DISCRIMINATION		MFG-14WV		
FAN SPEED	Cooling	High	1,260 r.p.m.	1,340 r.p.m.
		Medium	1,160 r.p.m.	1,240 r.p.m.
		Low	1,060 r.p.m.	1,140 r.p.m.
		Quiet	960 r.p.m.	1,030 r.p.m.
	Heating	High	1,260 r.p.m.	1,340 r.p.m.
		Medium	1,160 r.p.m.	1,240 r.p.m.
		Low	1,060 r.p.m.	1,140 r.p.m.
		Quiet	960 r.p.m.	1,030 r.p.m.
AIR FLOW	Cooling	High	353 cfm (600 m <sup>3</sup> /h)	383 cfm (650 m <sup>3</sup> /h)
		Medium	324 cfm (550 m <sup>3</sup> /h)	353 cfm (600 m <sup>3</sup> /h)
		Low	294 cfm (500 m <sup>3</sup> /h)	324 cfm (550 m <sup>3</sup> /h)
		Quiet	265 cfm (450 m <sup>3</sup> /h)	283 cfm (480 m <sup>3</sup> /h)
	Heating	High	353 cfm (600 m <sup>3</sup> /h)	383 cfm (650 m <sup>3</sup> /h)
		Medium	324 cfm (550 m <sup>3</sup> /h)	353 cfm (600 m <sup>3</sup> /h)
		Low	294 cfm (500 m <sup>3</sup> /h)	324 cfm (550 m <sup>3</sup> /h)
		Quiet	265 cfm (450 m <sup>3</sup> /h)	283 cfm (480 m <sup>3</sup> /h)
NOISE LEVEL	Cooling	High	28 dB(A)	29 dB(A)
		Medium	27 dB(A)	28 dB(A)
		Low	26 dB(A)	27 dB(A)
		Quiet	25 dB(A)	26 dB(A)
	Heating	High	28 dB(A)	29 dB(A)
		Medium	26 dB(A)	28 dB(A)
		Low	25 dB(A)	27 dB(A)
		Quiet	24 dB(A)	24 dB(A)

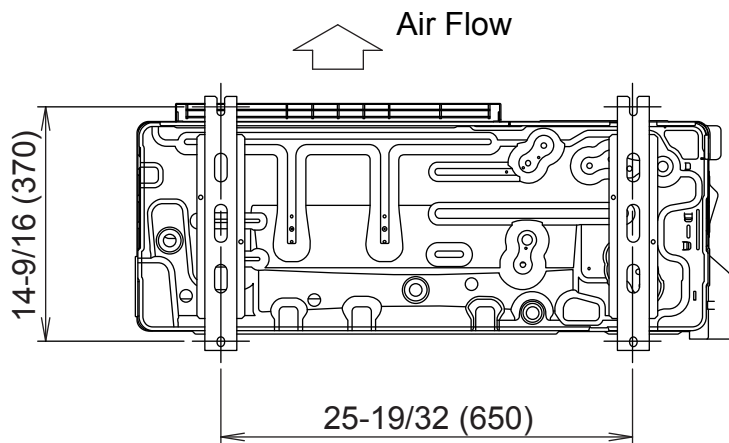
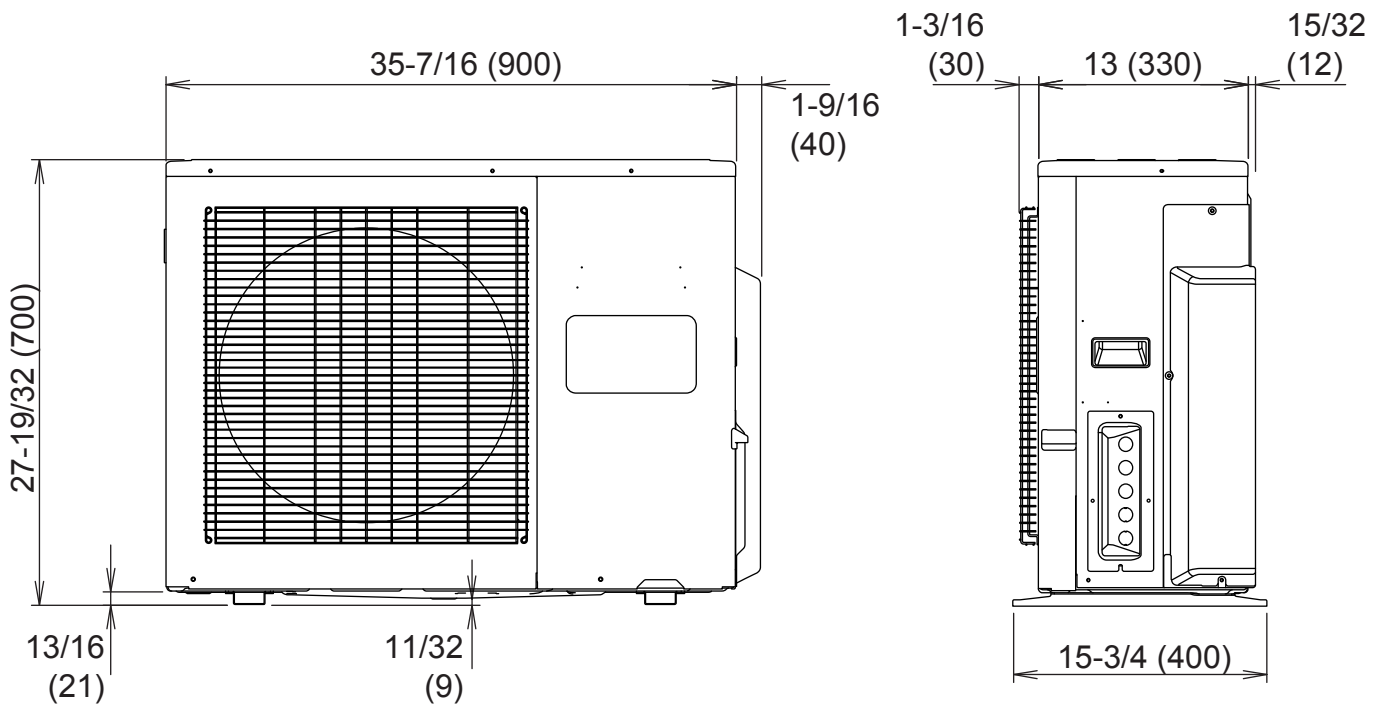
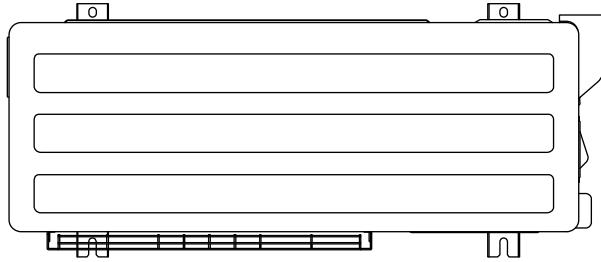
MEASUREMENTS

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	41 lb. / 55 lb. (19 kg / 25 kg)

# DIMENSIONS

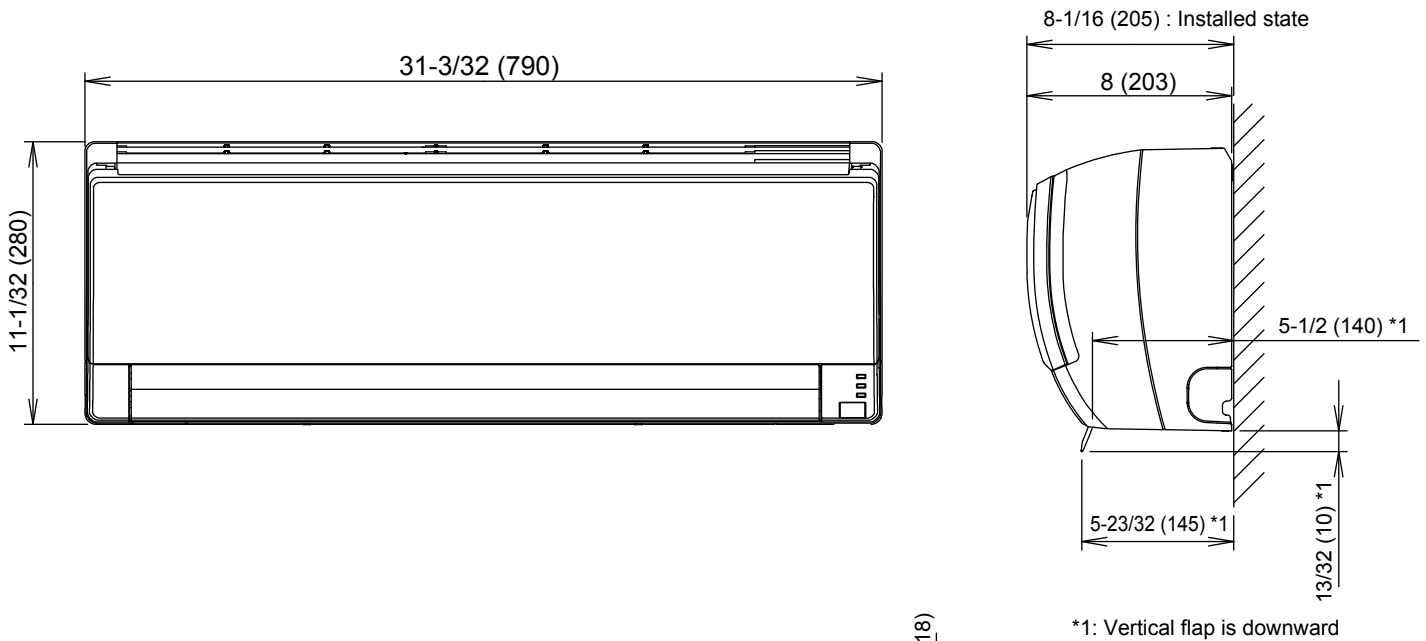
## OUTDOOR UNIT

Unit : inch (mm)

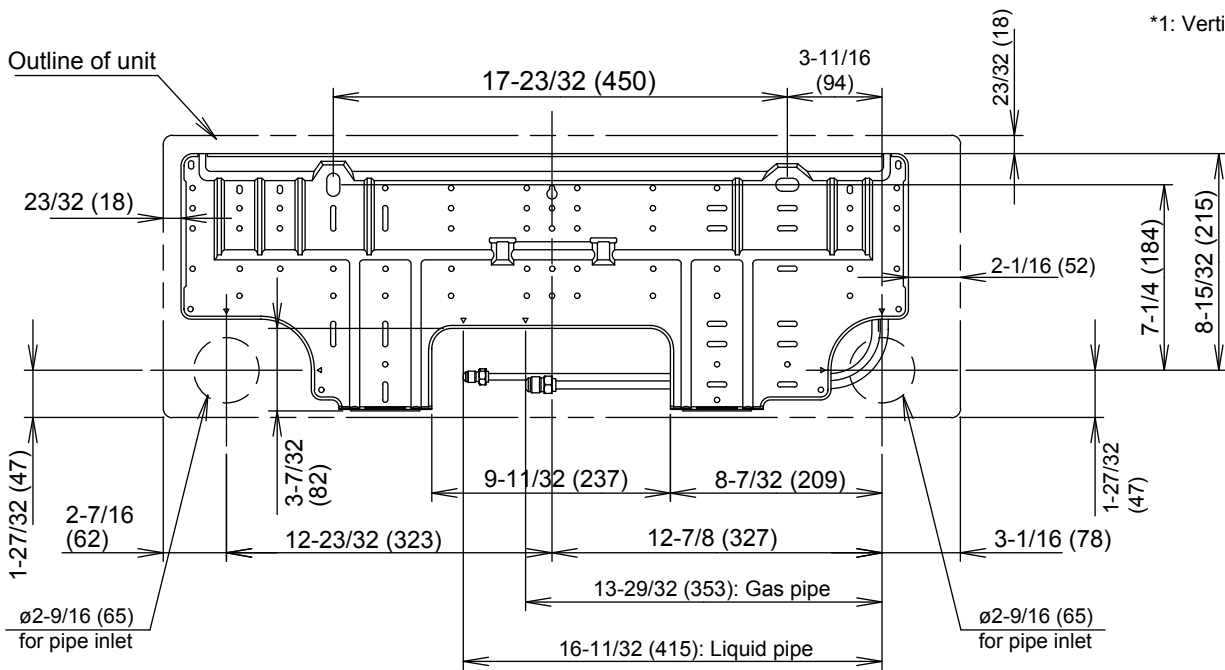


INDOOR UNIT  
 COMPACT WALL MOUNTED  
 ASU7RLF  
 ASU9RLF  
 ASU12RLF

Unit : inch (mm)

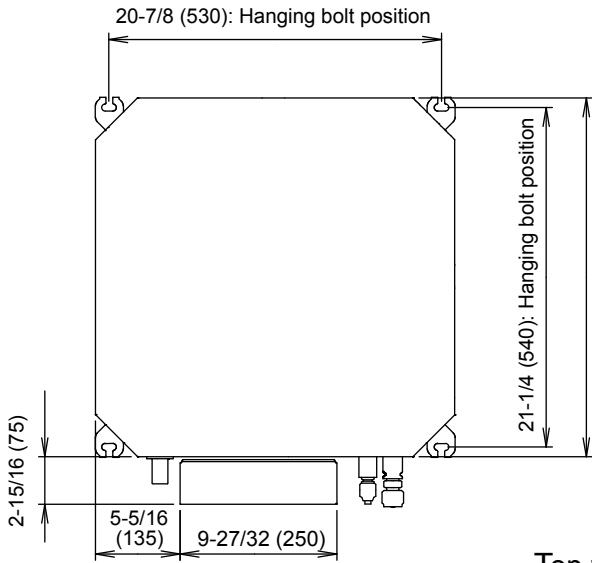


\*1: Vertical flap is downward

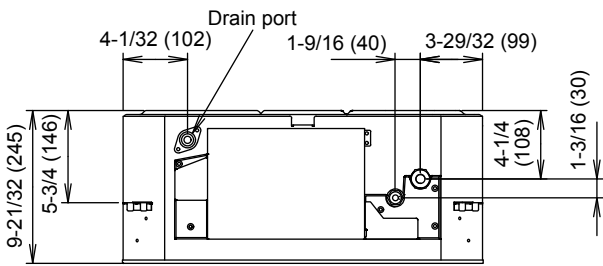
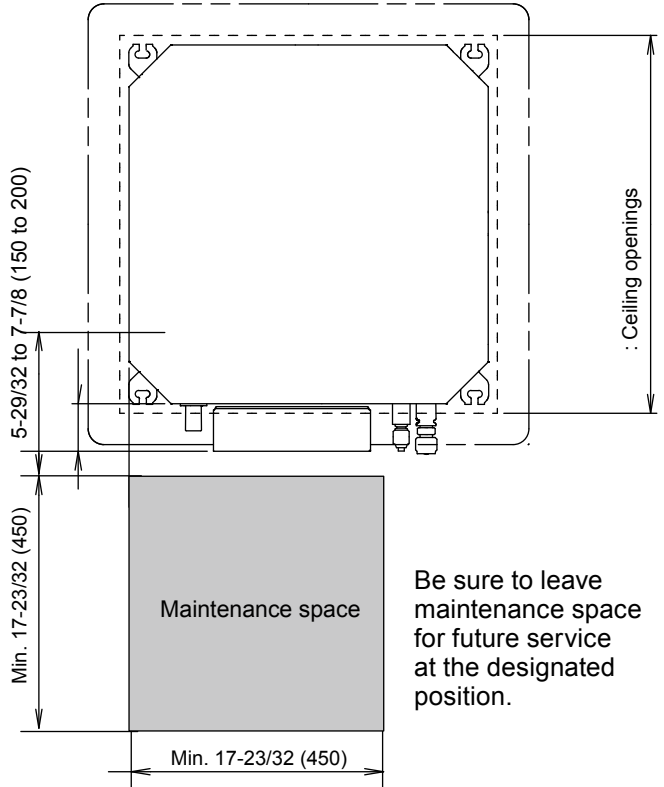


INDOOR UNIT  
 COMPACT CASSETTE  
 AUU9RLF  
 AUU12RLF  
 Unit : inch (mm)

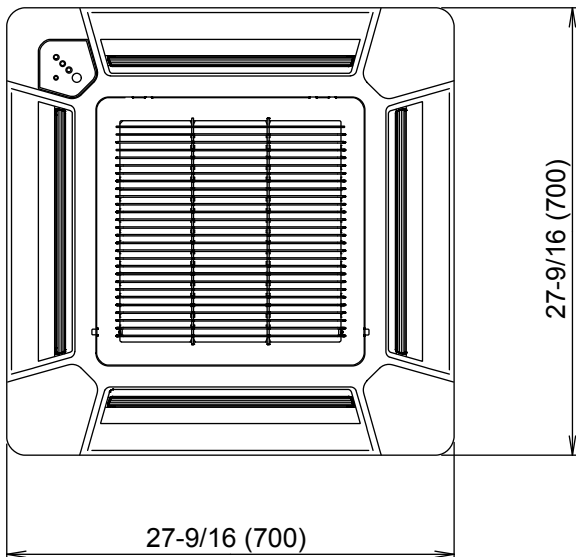
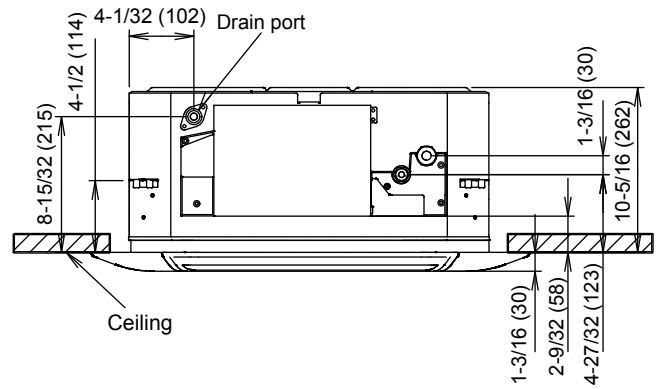
• Decoration panel mounting state



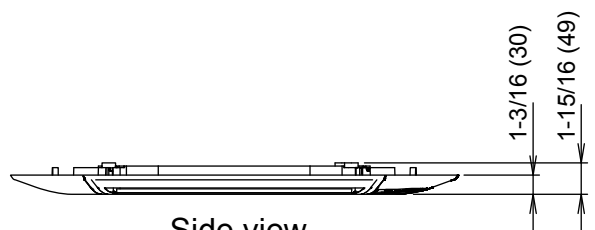
Top view



Side view



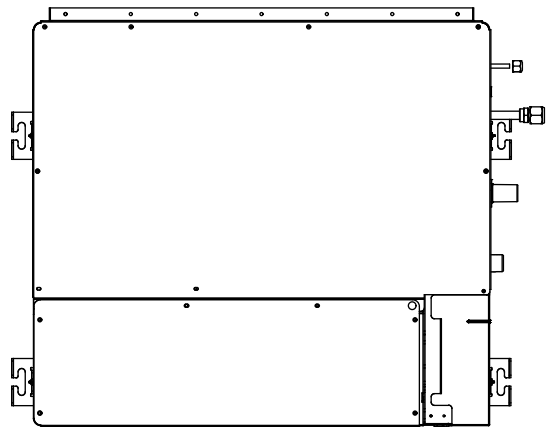
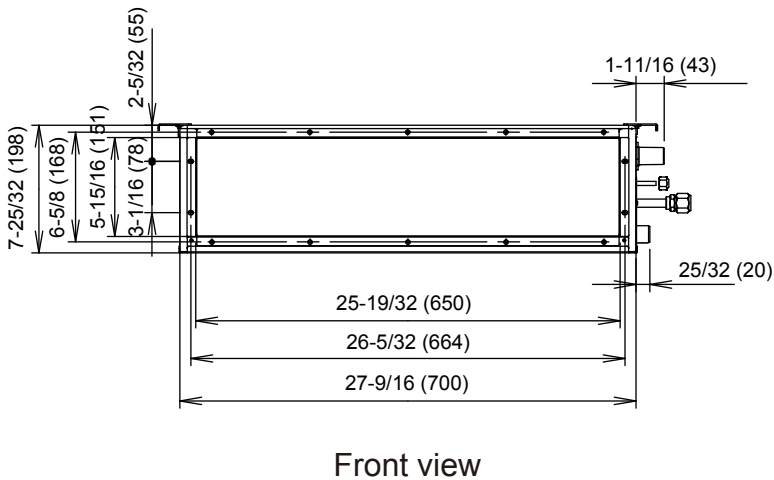
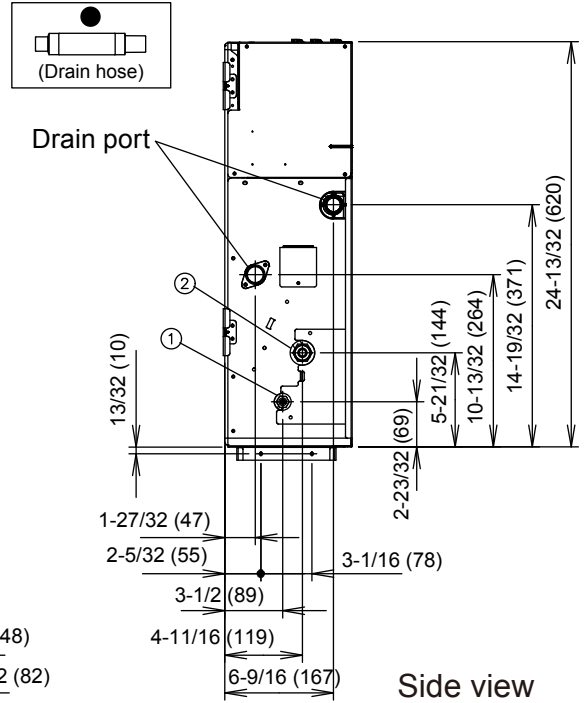
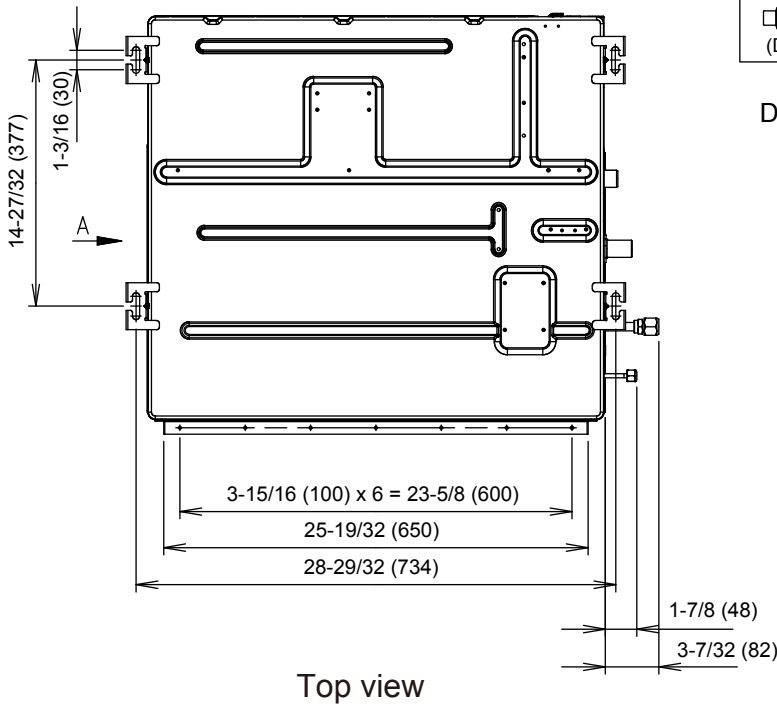
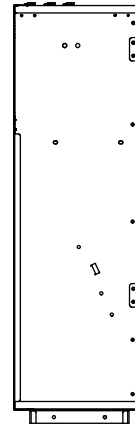
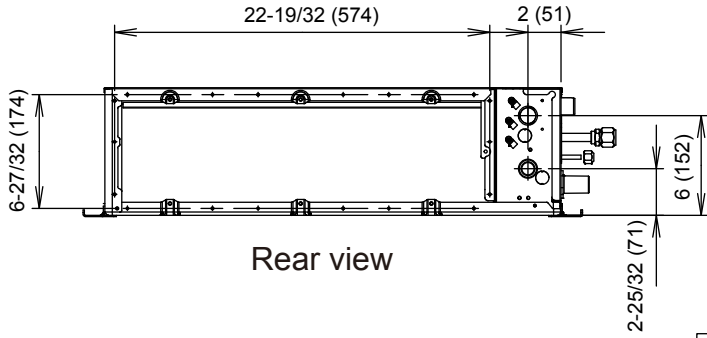
Bottom view



Side view

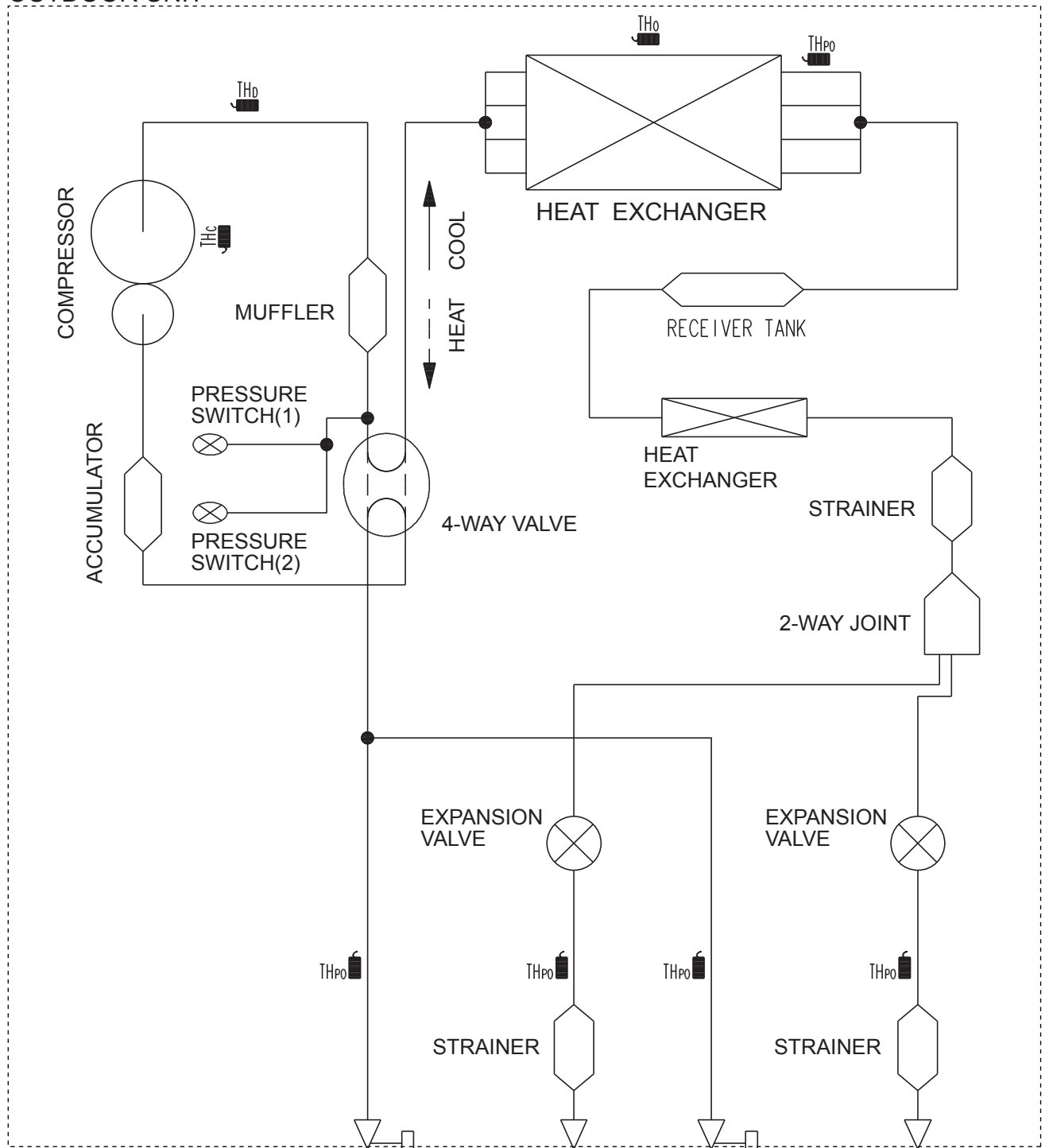


INDOOR UNIT  
 SLIM DUCT  
 ARU9RLF  
 ARU12RLF  
 Unit : inch (mm)









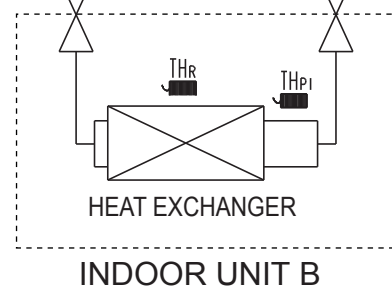
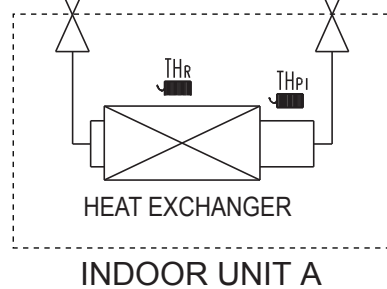
# REFRIGERANT SYSTEM DIAGRAM

OUTDOOR UNIT



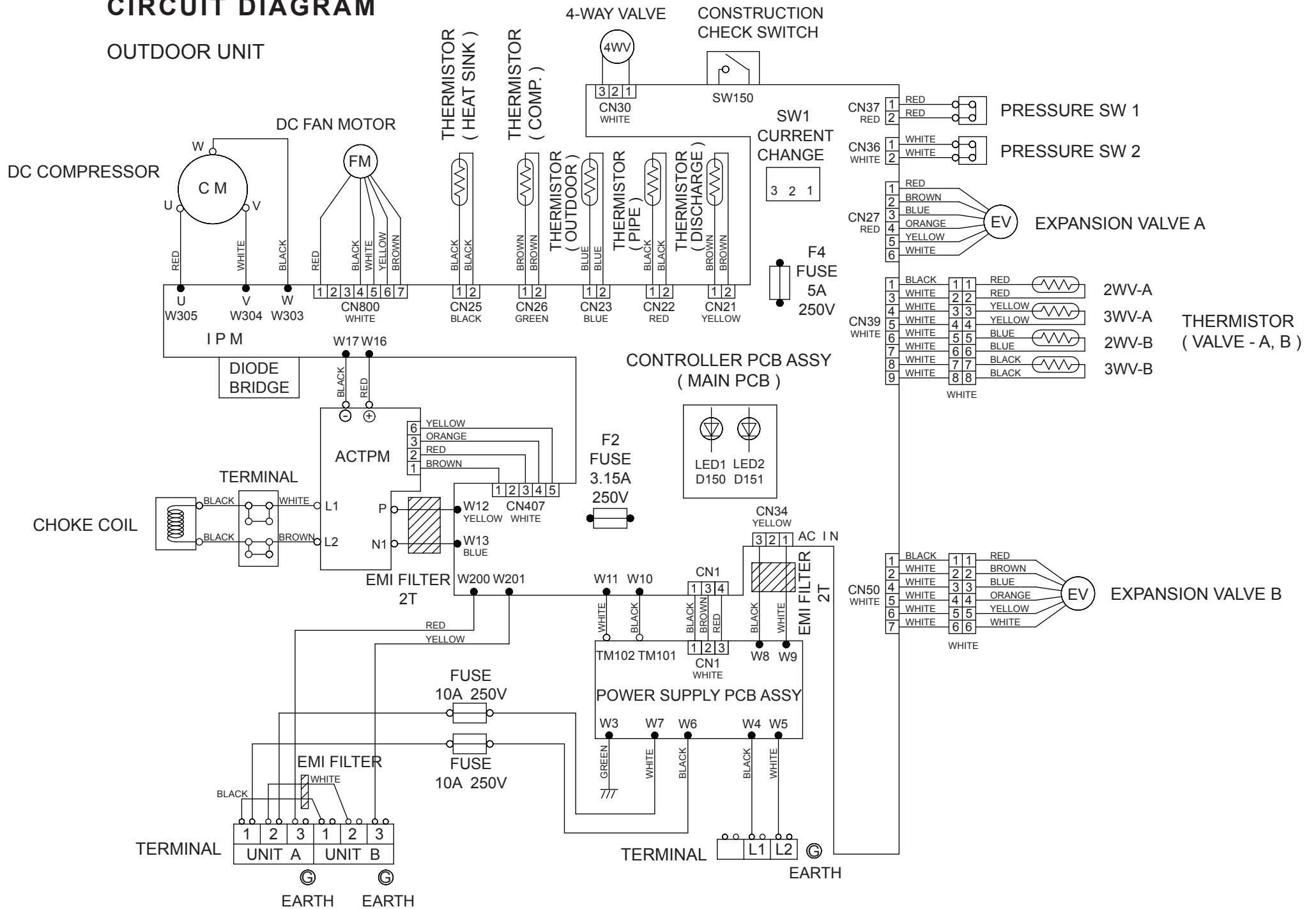
## THERMISTOR

- TH<sub>o</sub>  : DISCHARGE PIPE
- TH<sub>o</sub>  : OUTDOOR
- TH<sub>po</sub>  : PIPE
- TH<sub>c</sub>  : COMPRESSOR
- TH<sub>r</sub>  : ROOM
- TH<sub>pi</sub>  : PIPE

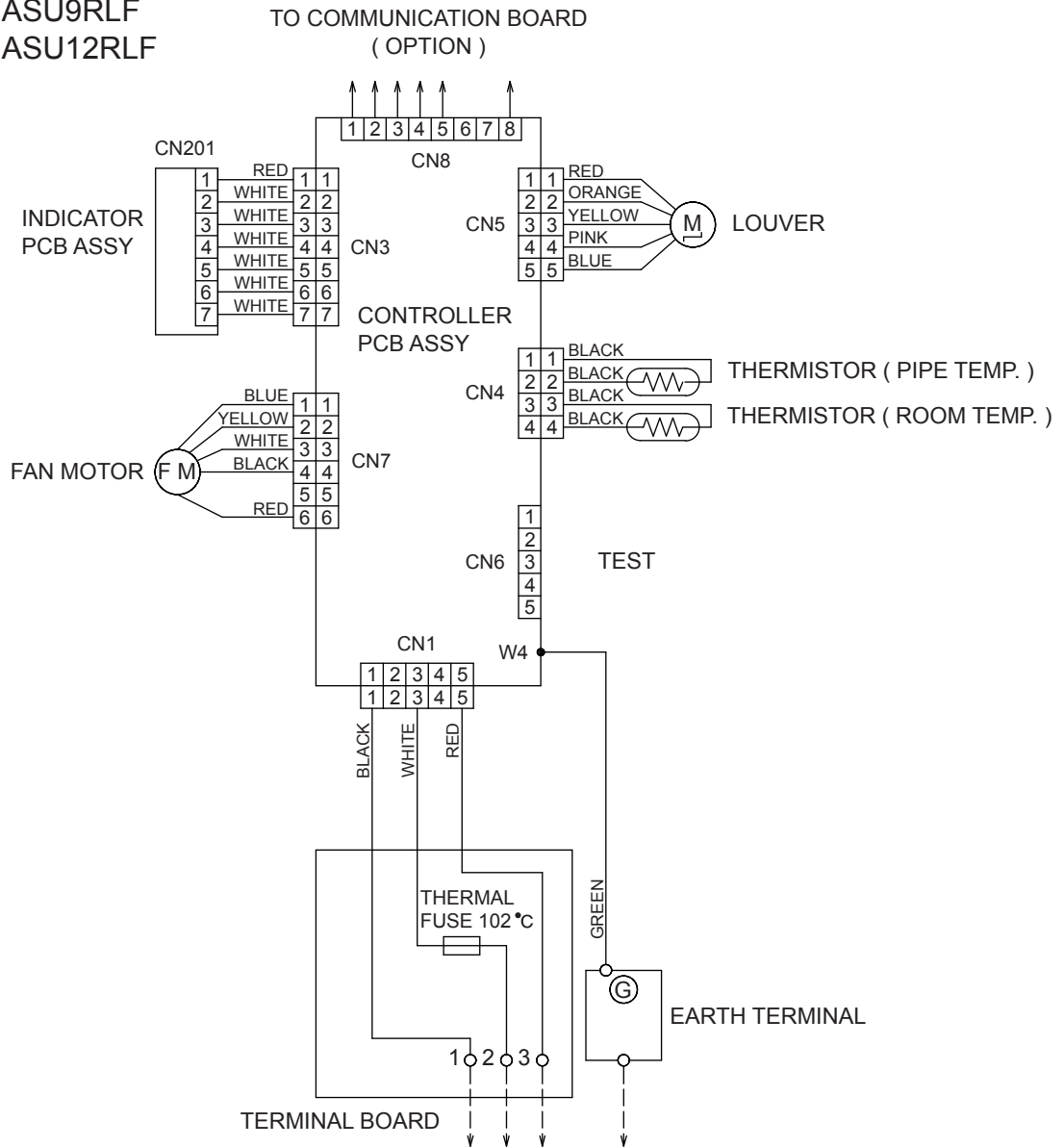


# CIRCUIT DIAGRAM

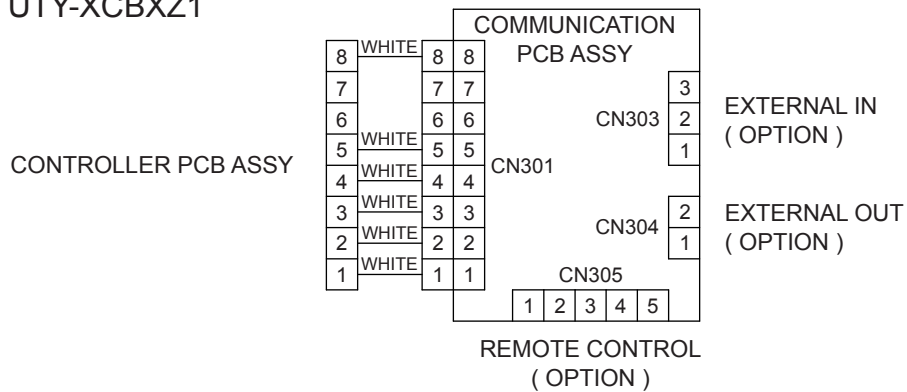
## OUTDOOR UNIT



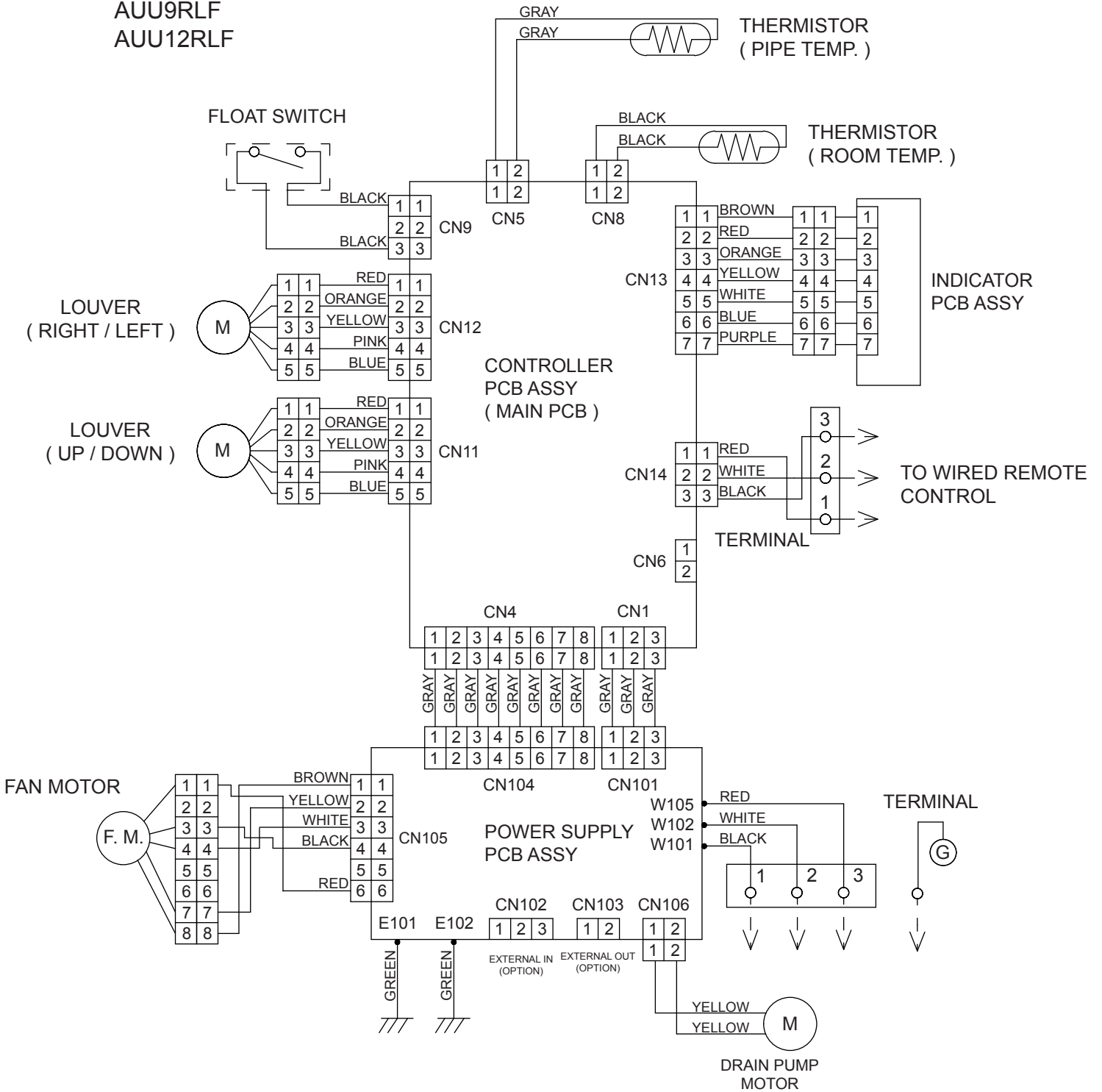
INDOOR UNIT  
 COMPACT WALL MOUNTED  
 ASU7RLF  
 ASU9RLF  
 ASU12RLF



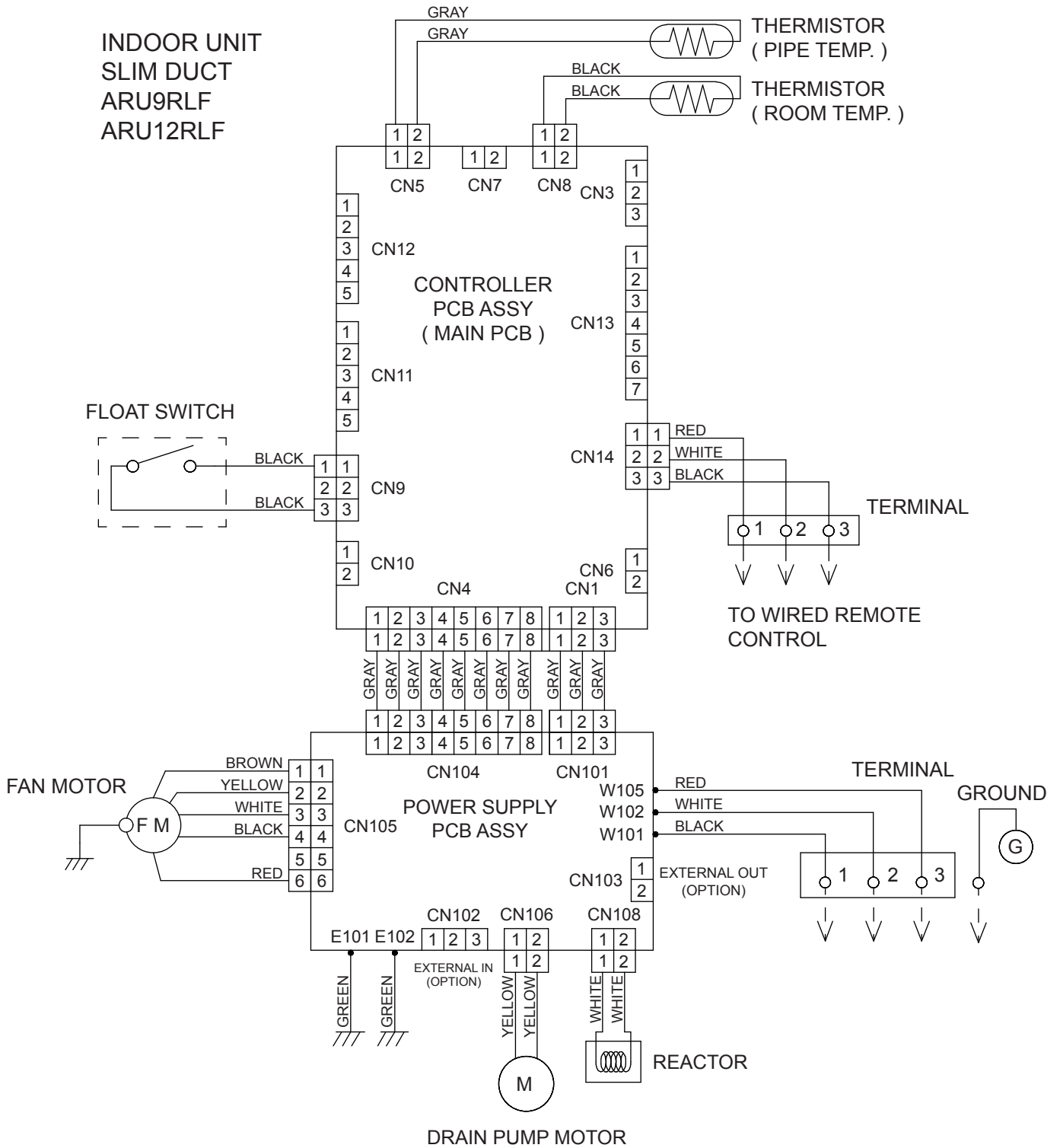
COMMUNICATION KIT  
 UTY-XCBXZ1



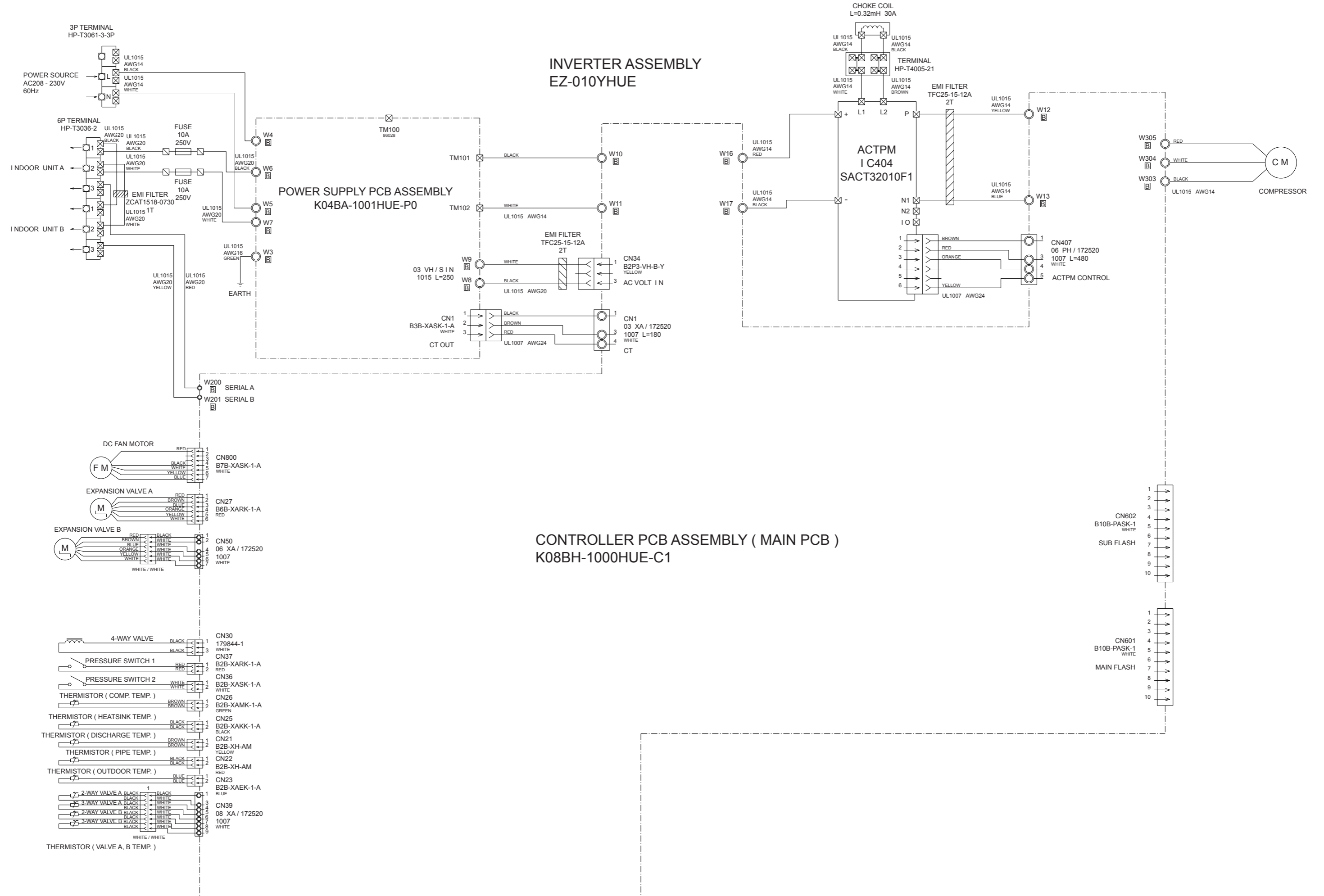
INDOOR UNIT  
 COMPACT CASSETTE  
 AUU9RLF  
 AUU12RLF



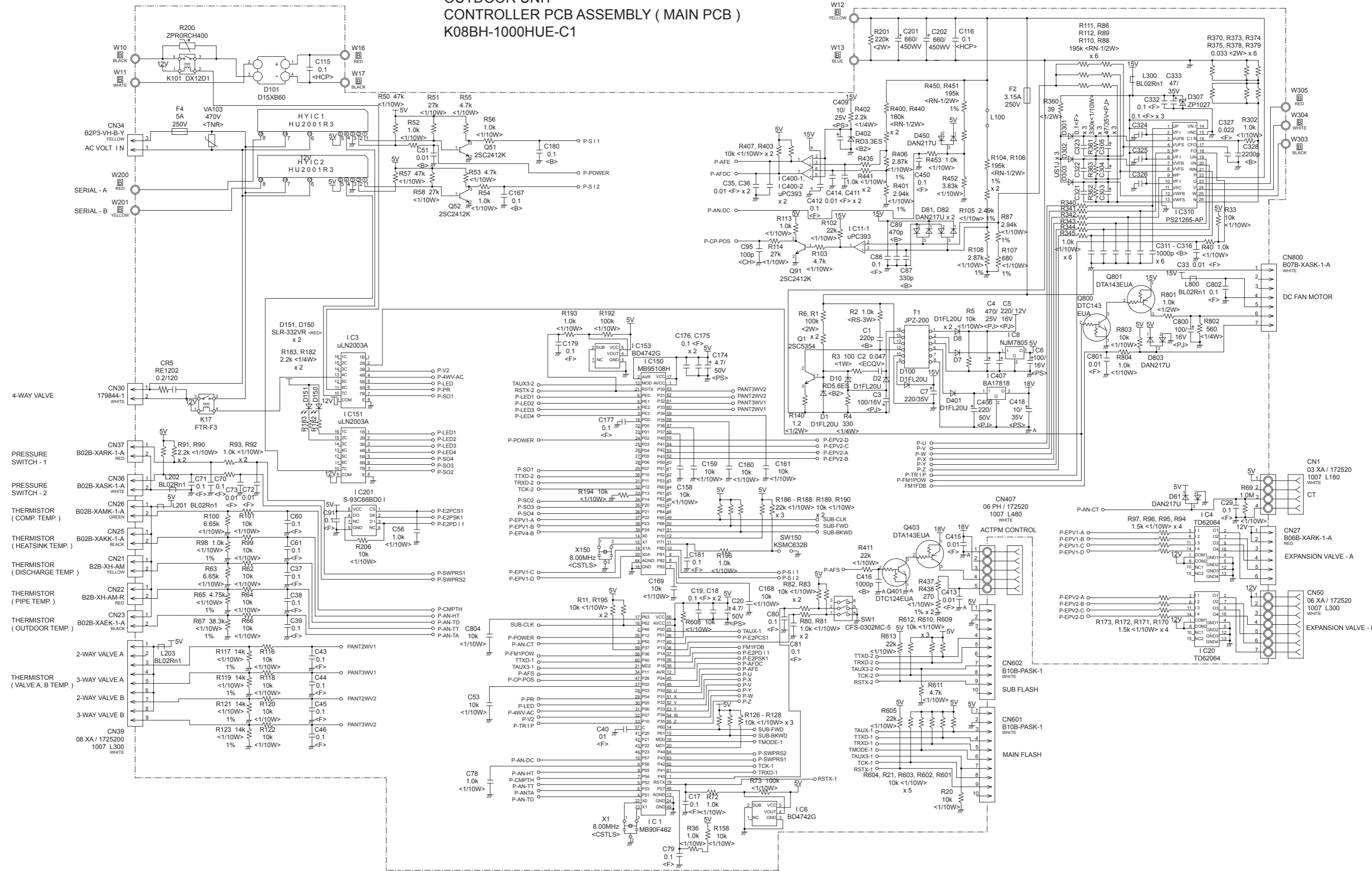
INDOOR UNIT  
SLIM DUCT  
ARU9RLF  
ARU12RLF



# OUTDOOR PCB CIRCUIT DIAGRAM

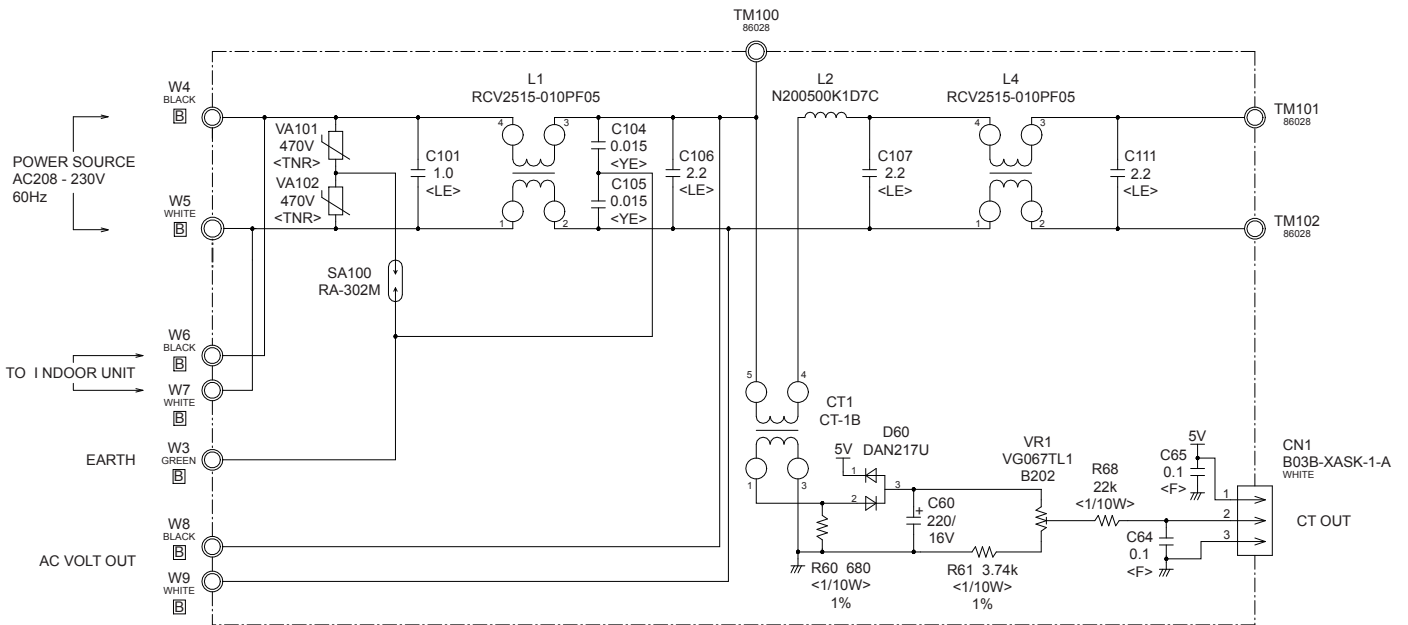


# OUTDOOR UNIT CONTROLLER PCB ASSEMBLY ( MAIN PCB ) K08BH-1000HUE-C1



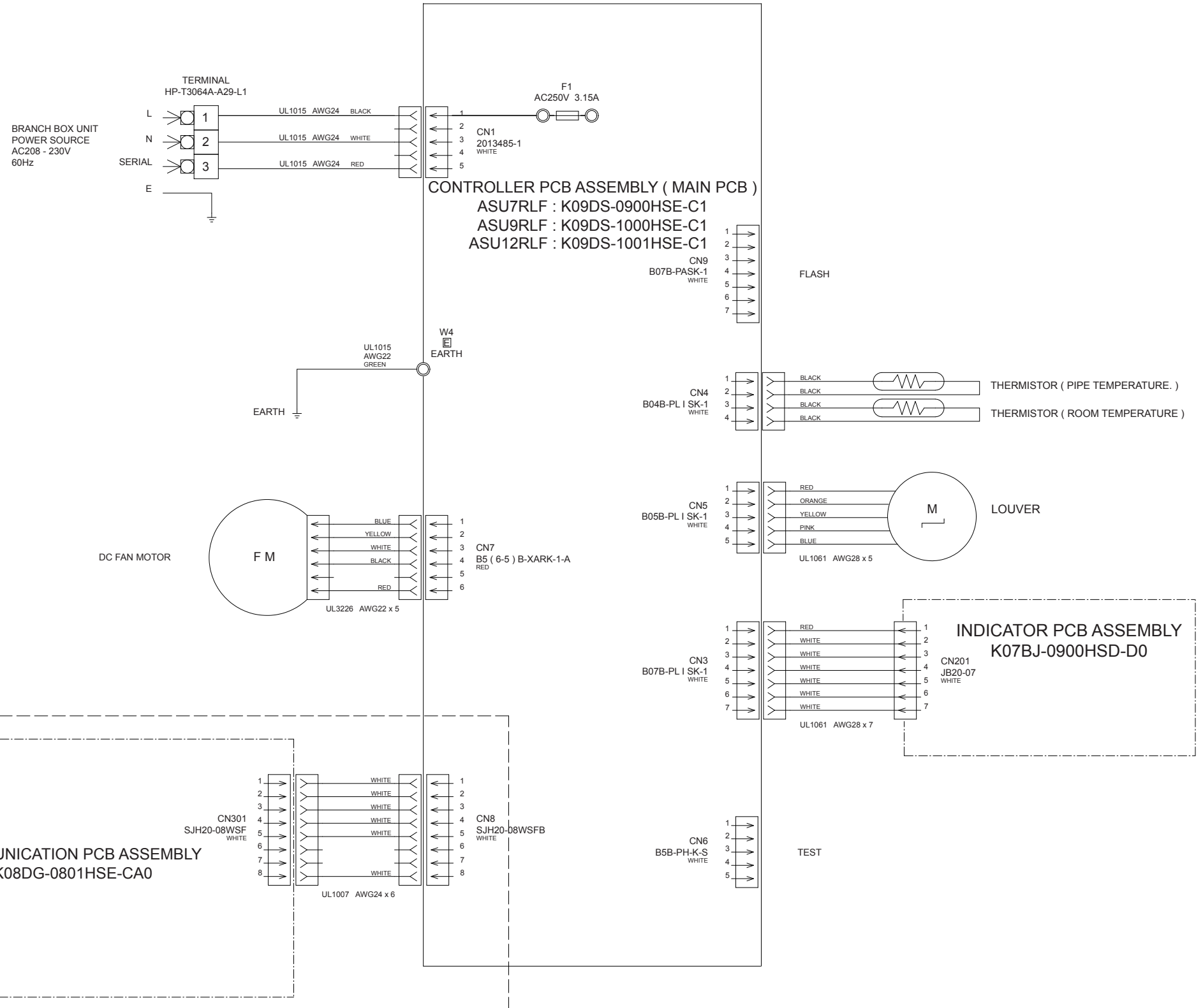


# OUTDOOR UNIT POWER SUPPLY PCB ASSEMBLY K04BA-1001HUE-P0

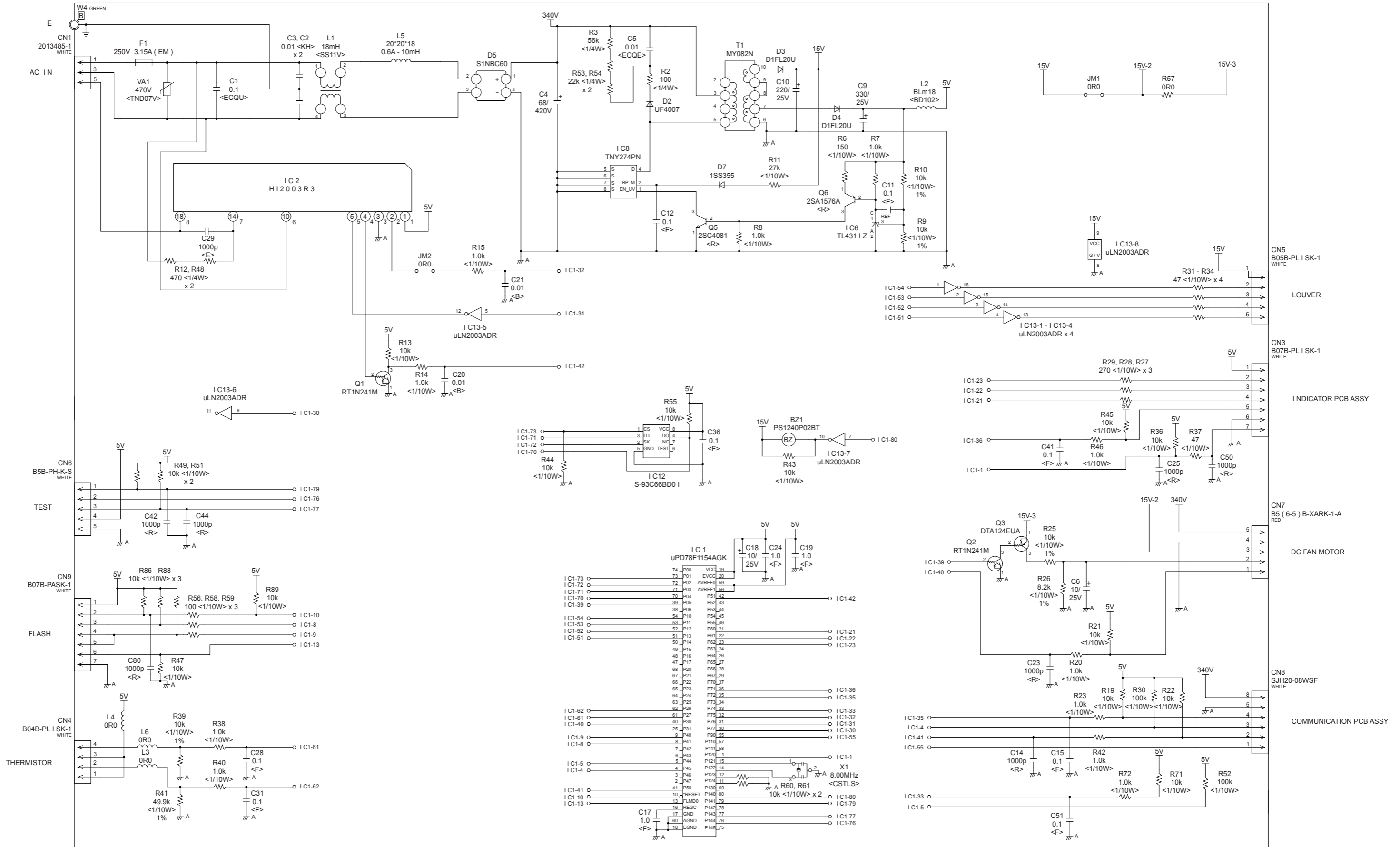


# INDOOR PCB CIRCUIT DIAGRAM

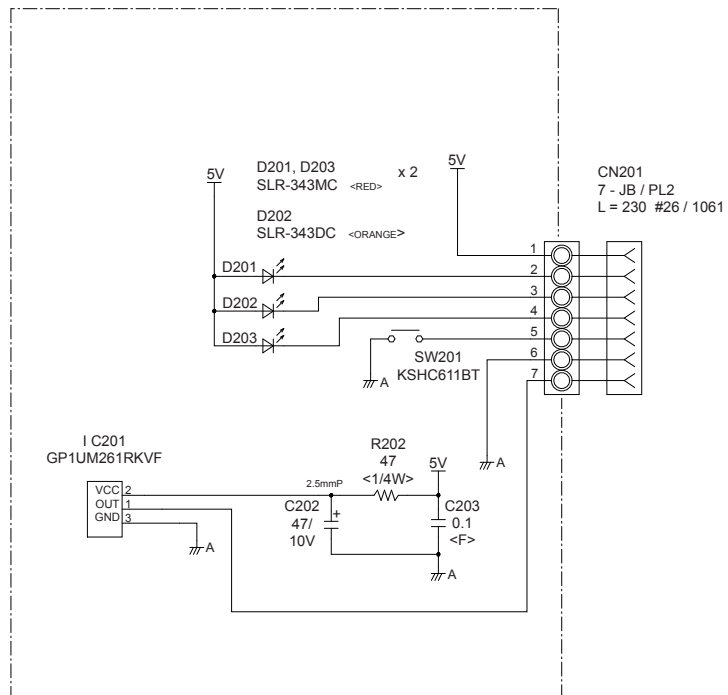
COMPACT WALL MOUNTED  
CONTROL UNIT  
ASU7RLF : EZ-0090CHSE  
ASU9RLF : EZ-0102HSE  
ASU12RLF : EZ-0103HSE



INDOOR UNIT  
 COMPACT WALL MOUNTED  
 CONTROLLER PCB ASSEMBLY ( MAIN PCB )  
 ASU7RLF : K09DS-0900HSE-C1  
 ASU9RLF : K09DS-1000HSE-C1  
 ASU12RLF : K09DS-1001HSE-C1

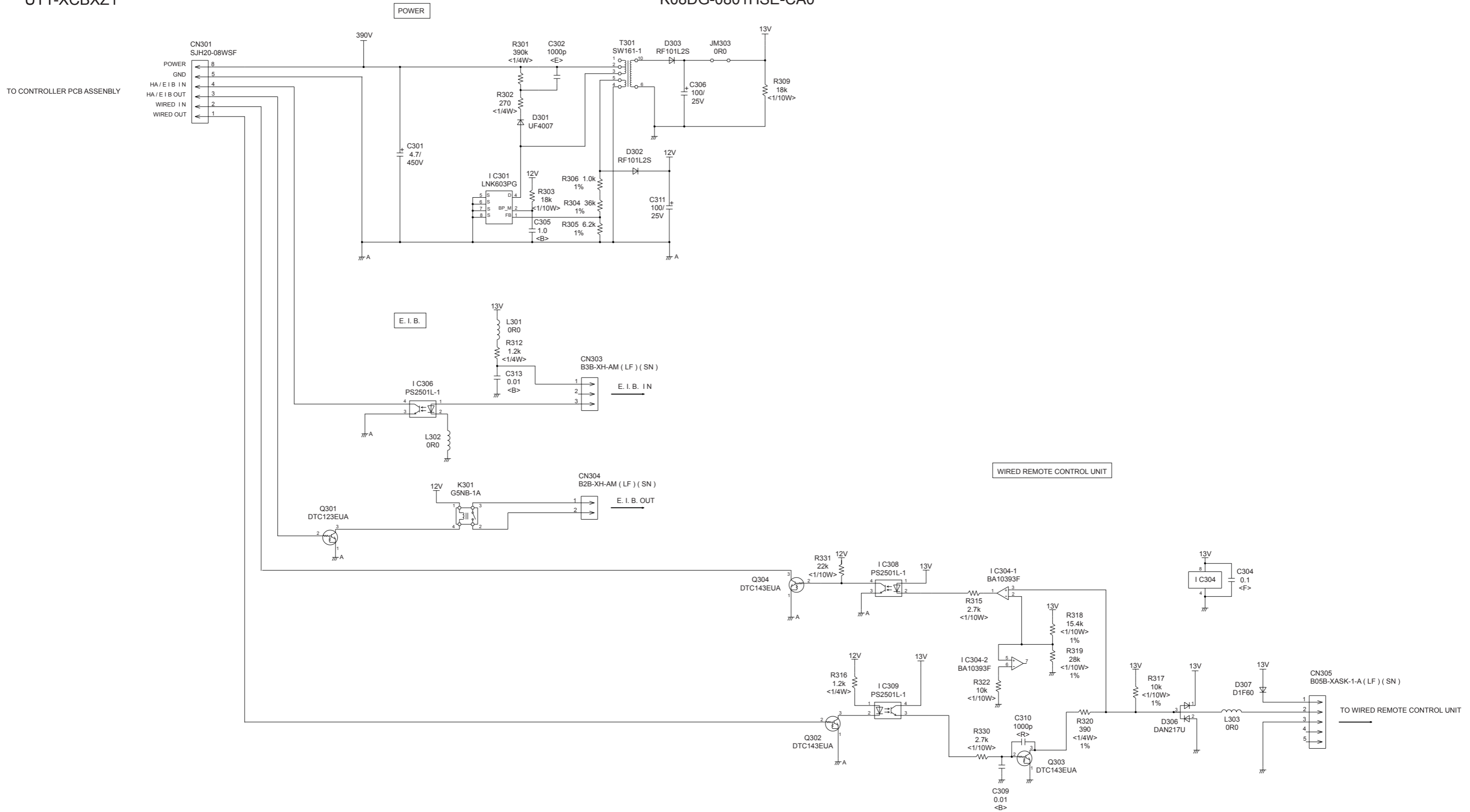


INDOOR UNIT  
 COMPACT WALL MOUNTED  
 ASU7RLF  
 ASU9RLF  
 ASU12RLF  
 INDICATOR PCB ASSEMBLY  
 K07BJ-0900HSD-D0



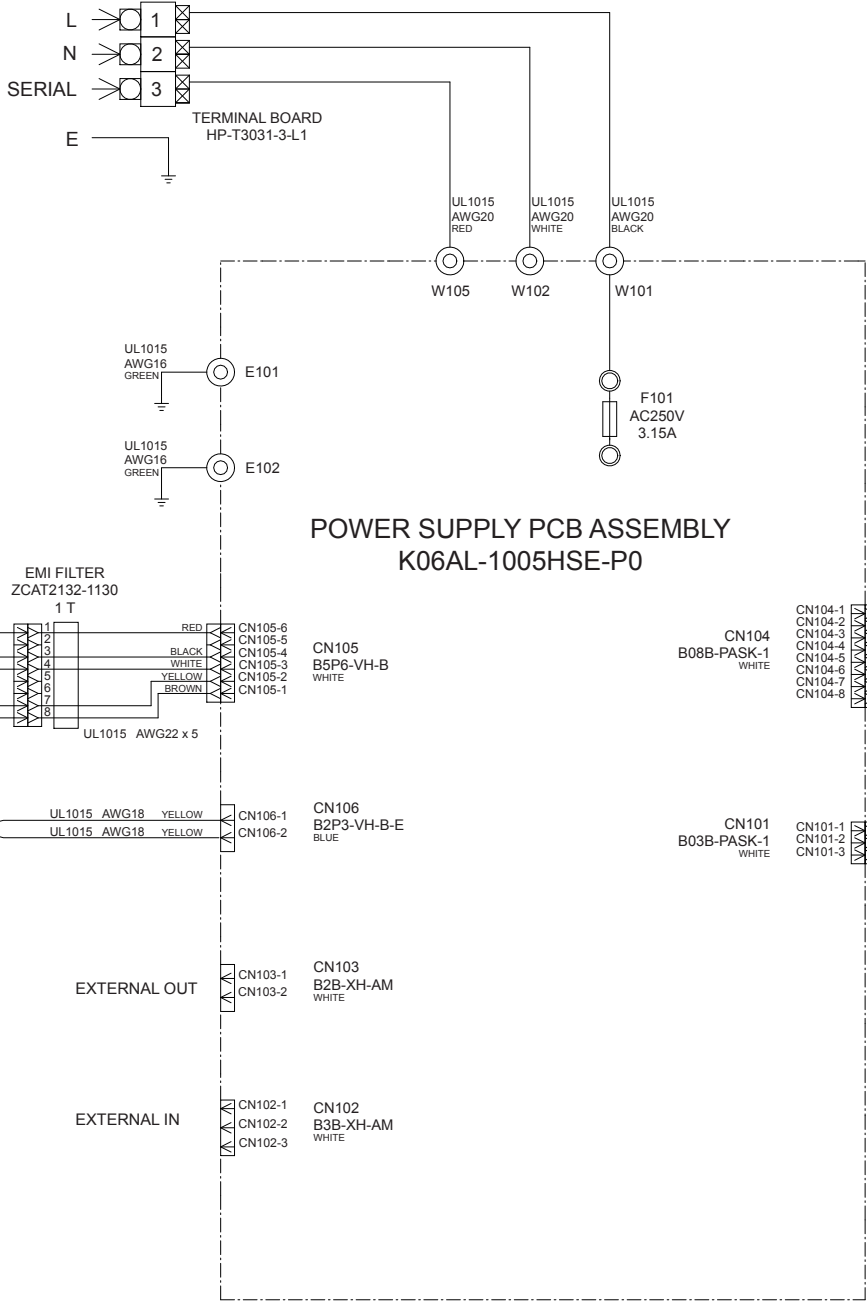
COMMUNICATION KIT  
UTY-XCBXZ1

COMMUNICATION PCB ASSEMBLY  
K08DG-0801HSE-CA0



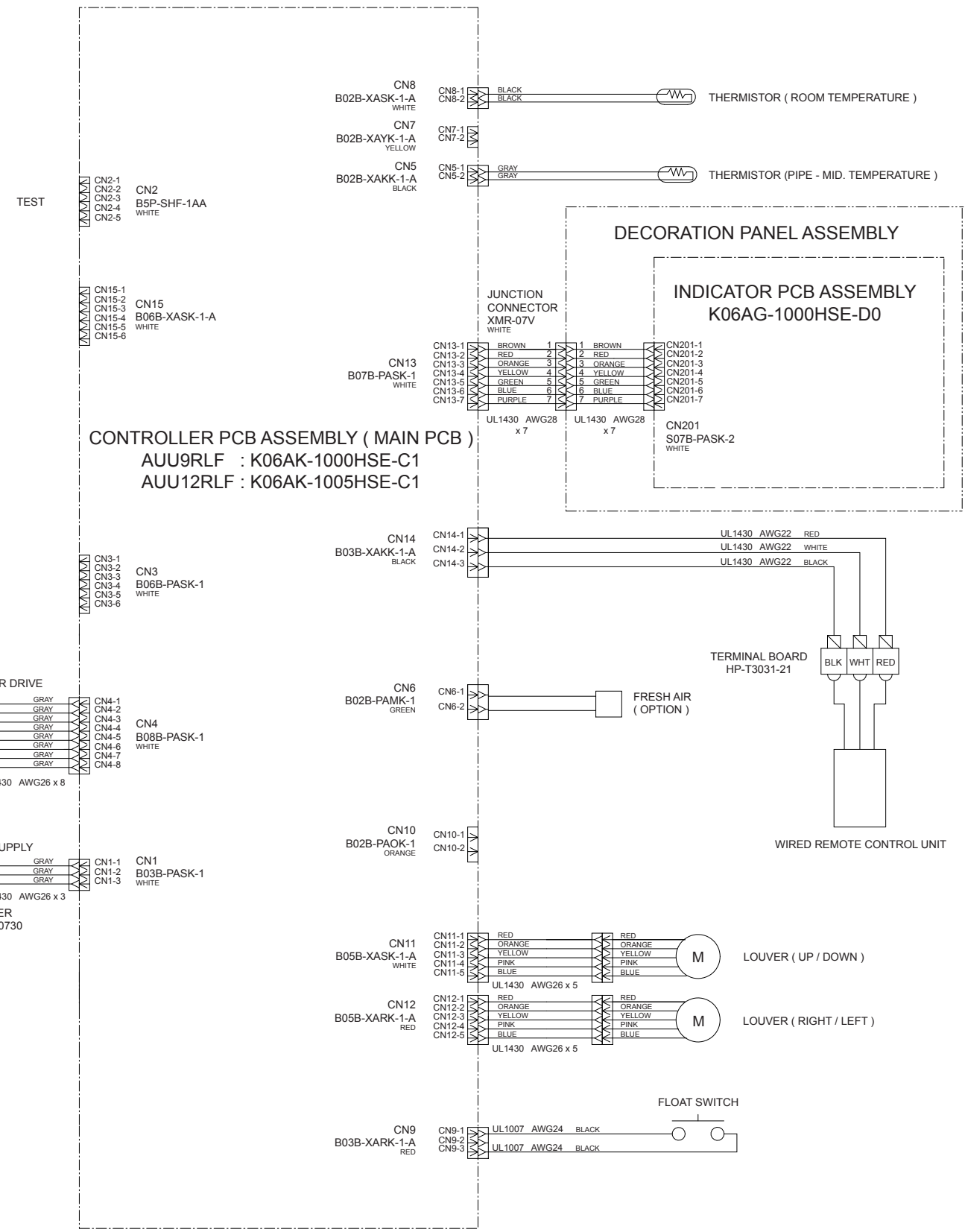
INDOOR UNIT  
 COMPACT CASSETTE  
 CONTROL UNIT  
 AUU9RLF : EZ-0100HSE  
 AUU12RLF : EZ-0105HSE

BRANCH BOX UNIT  
 POWER SOURCE  
 AC208 - 230V  
 60Hz



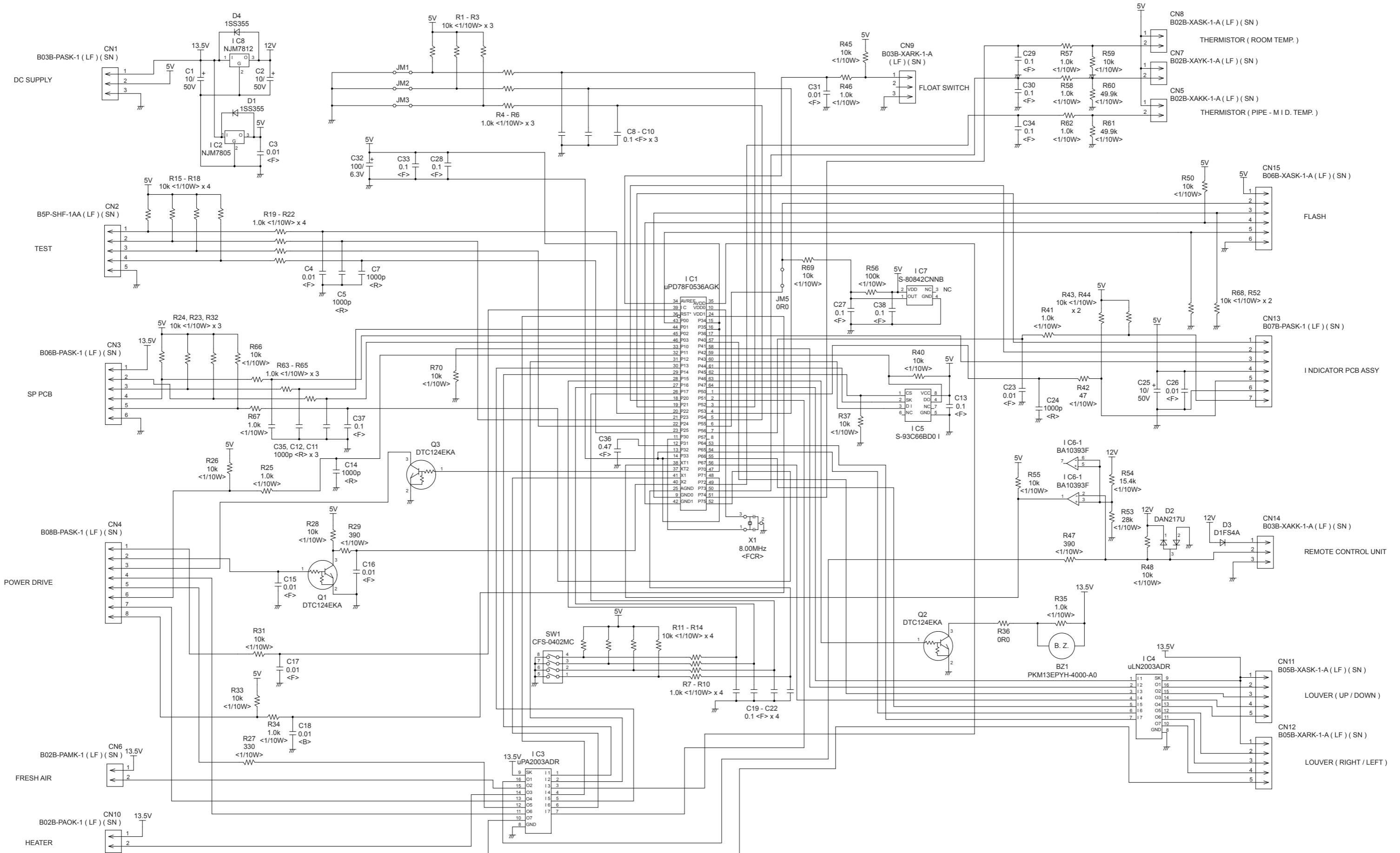
POWER SUPPLY PCB ASSEMBLY  
 K06AL-1005HSE-P0

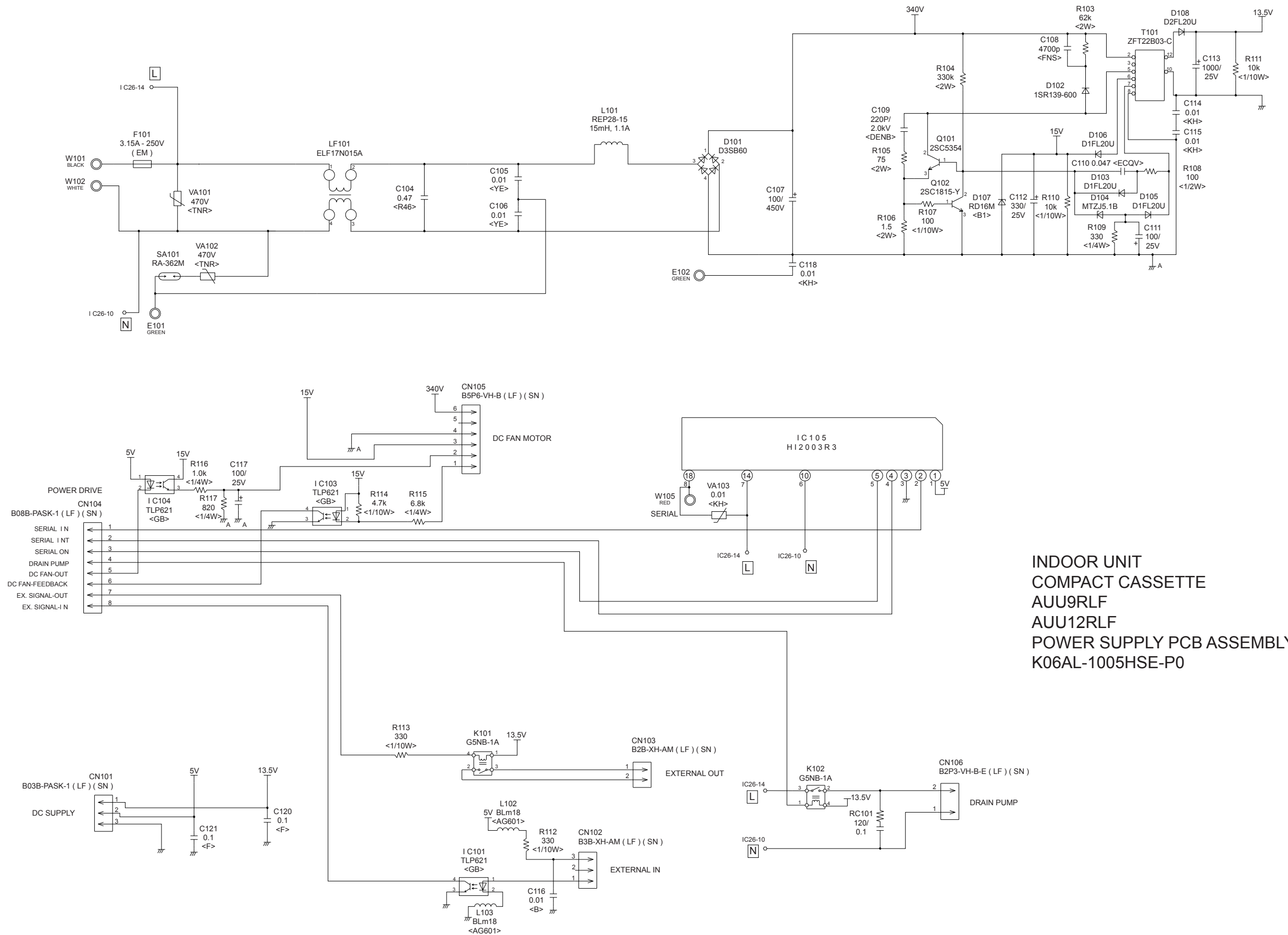
CONTROLLER PCB ASSEMBLY ( MAIN PCB )  
 AUU9RLF : K06AK-1000HSE-C1  
 AUU12RLF : K06AK-1005HSE-C1



DECORATION PANEL ASSEMBLY  
 INDICATOR PCB ASSEMBLY  
 K06AG-1000HSE-D0

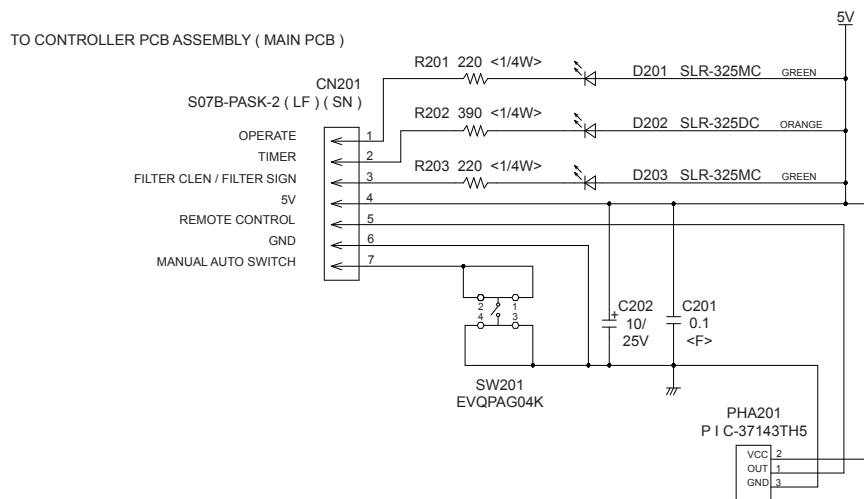
INDOOR UNIT  
 CONTROLLER PCB ASSEMBLY ( MAIN PCB )  
 AUU9RLF : K06AK-1000HSE-C1  
 AUU12RLF : K06AK-1005HSE-C1  
 ARU9RLF : K06AK-1001HSE-C1  
 ARU12RLF : K06AK-1002HSE-C1



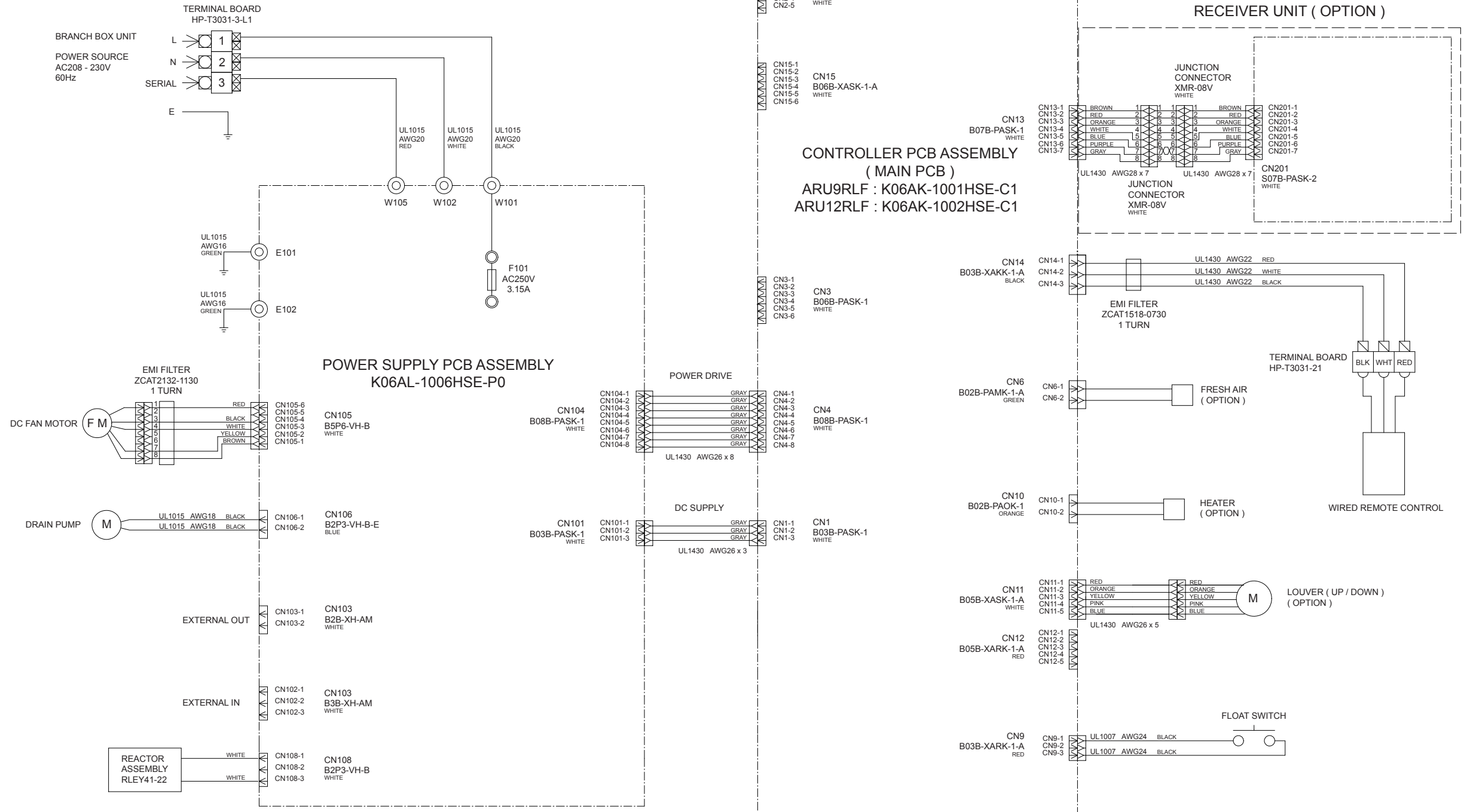


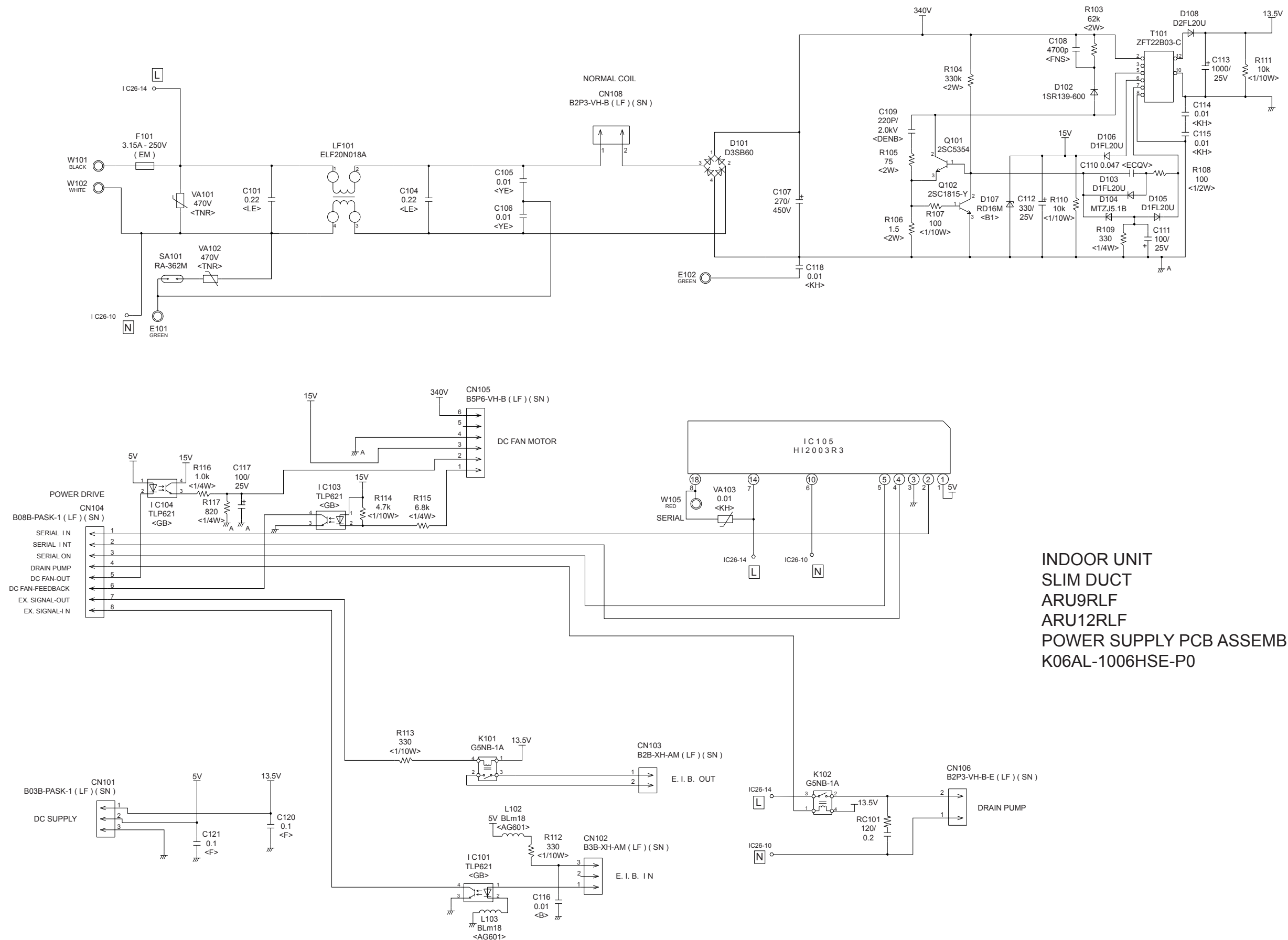


INDOOR UNIT  
 COMPACT CASSETTE  
 AUU9RLF  
 AUU12RLF  
 INDICATOR PCB ASSEMBLY ( OPTION )  
 K06AG-1000HSE-D0



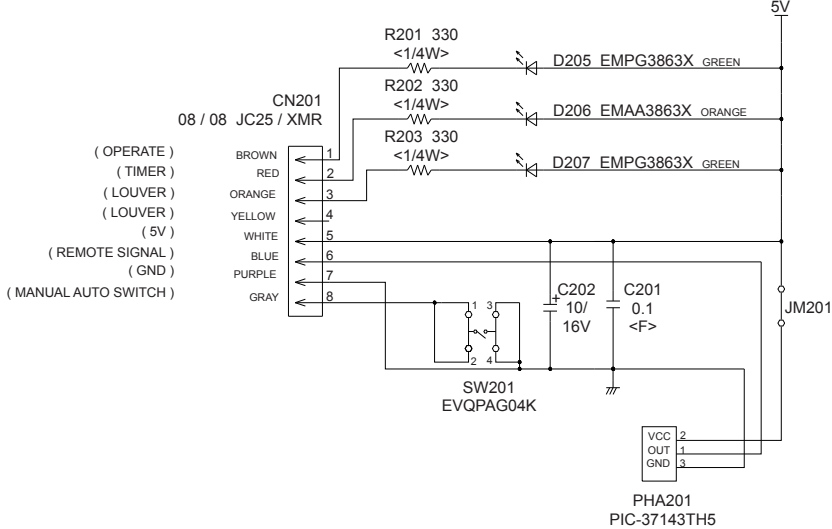
INDOOR UNIT  
SLIM DUCT  
CONTROL UNIT  
ARU9RLF : EZ-0101HSE  
ARU12RLF : EZ-0107HSE

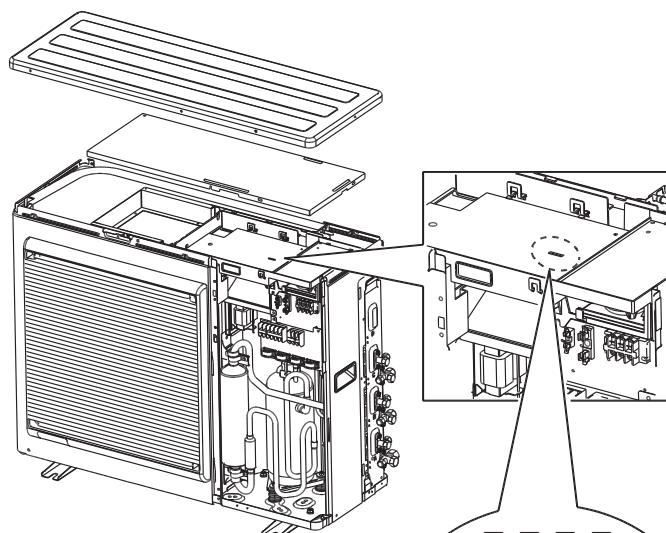




INDOOR UNIT  
 SLIM DUCT  
 ARU9RLF  
 ARU12RLF  
 POWER SUPPLY PCB ASSEMBLY  
 K06AL-1006HSE-P0

INDOOR UNIT  
 SLIM DUCT  
 ARU9RLF  
 ARU12RLF  
 INDICATOR PCB ASSEMBLY ( OPTION )  
 K04EI-1000HSE-D0

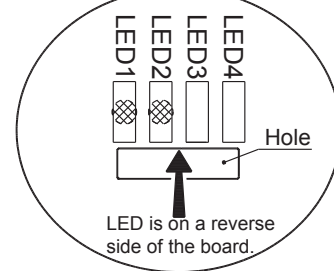




## ERROR DETECTION

### OUTDOOR UNIT

Error contents	LED 1	LED 2
Serial communication error (OU to IU A)	● 1 time	—
Serial communication error (OU to IU B)	—	● 1 time
Discharge temp. sensor error	● 2 times	—
Outdoor unit heat ex. middle temp. sensor error	● 3 times	—
Outdoor temp. sensor error	● 4 times	—
2-way valve temp. sensor error (for 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	—



● : Flashing

— : Off

- : 0.5s on / 0.5s off
- ◇ : 0.1s on / 0.1s off
- ( ) : Number of flashing

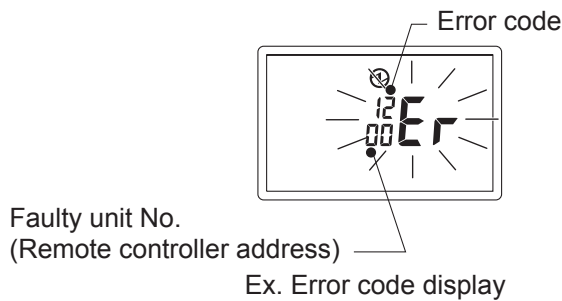
## INDOOR UNIT and WIRED REMOTE CONTROL

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.

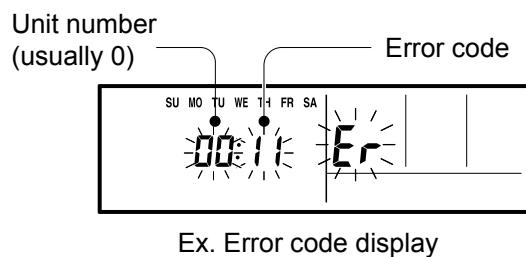
### SIMPLE REMOTE CONTROL

If an error occurs, the following display will be shown. ("Er" will appear in the set room temperature display.) If "Er" is displayed, immediately contact authorized service personnel.



### WIRED REMOTE CONTROL

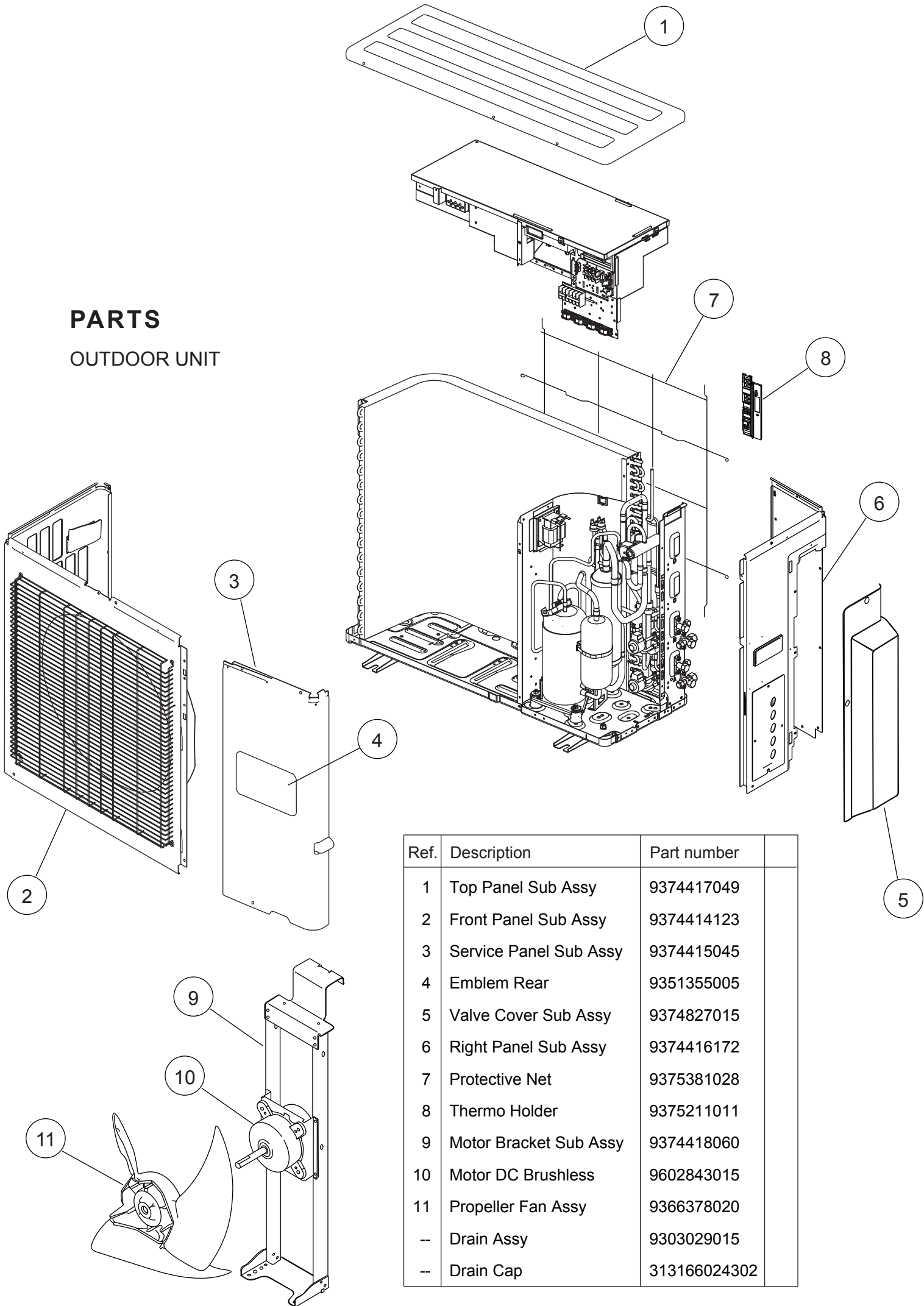
If an error occurs, the following display will be shown. ("Er" will appear in the set room temperature display.) If "Er" is displayed, immediately contact authorized service personnel.



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
●(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]

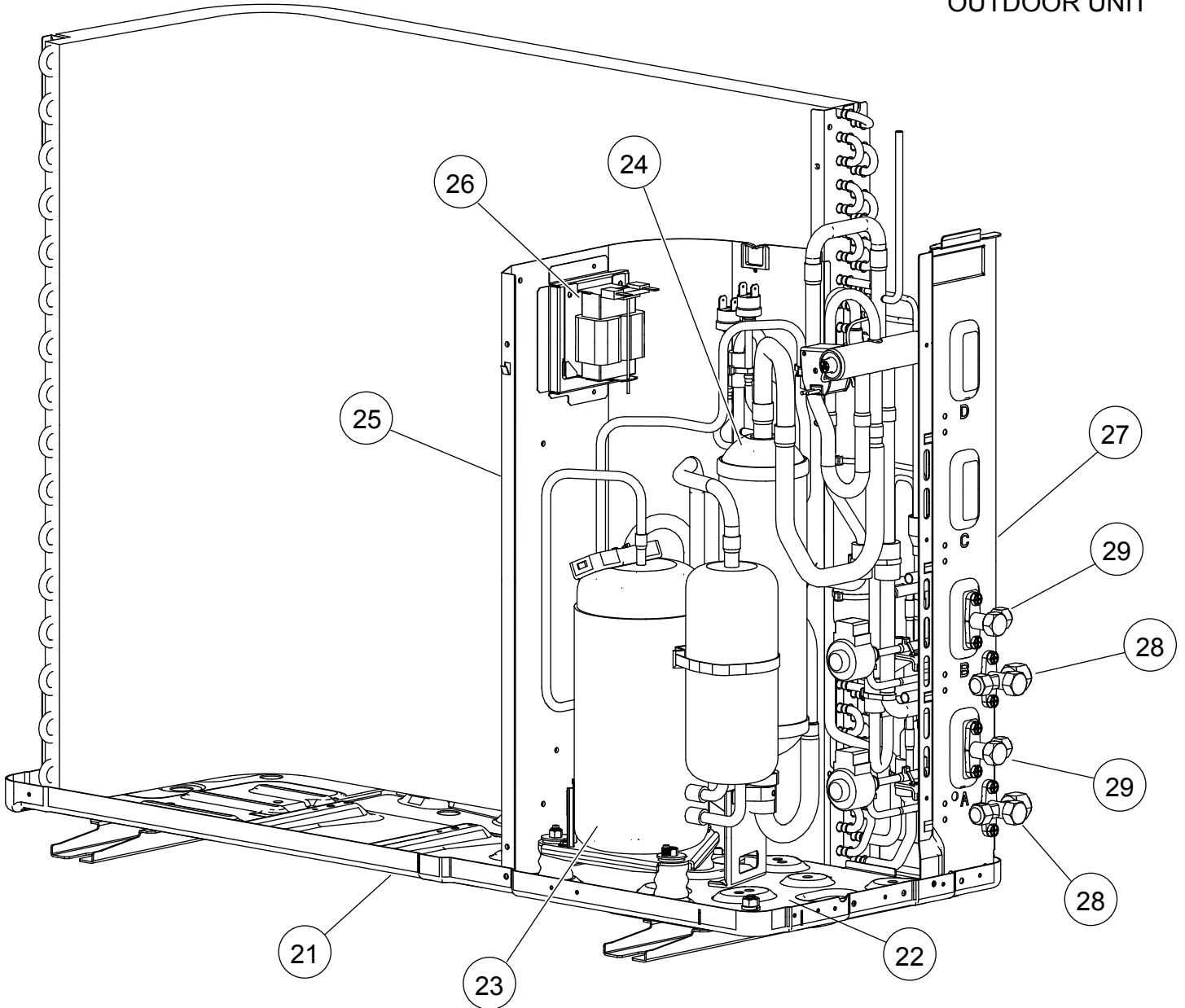
# PARTS

## OUTDOOR UNIT

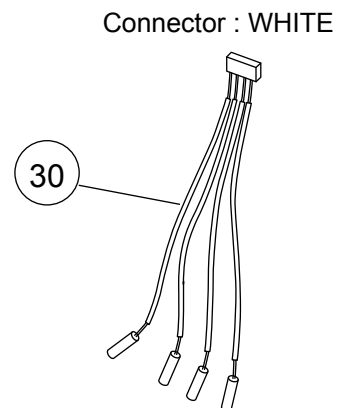


Ref.	Description	Part number
1	Top Panel Sub Assy	9374417049
2	Front Panel Sub Assy	9374414123
3	Service Panel Sub Assy	9374415045
4	Emblem Rear	9351355005
5	Valve Cover Sub Assy	9374827015
6	Right Panel Sub Assy	9374416172
7	Protective Net	9375381028
8	Thermo Holder	9375211011
9	Motor Bracket Sub Assy	9374418060
10	Motor DC Brushless	9602843015
11	Propeller Fan Assy	9366378020
--	Drain Assy	9303029015
--	Drain Cap	313166024302

# OUTDOOR UNIT

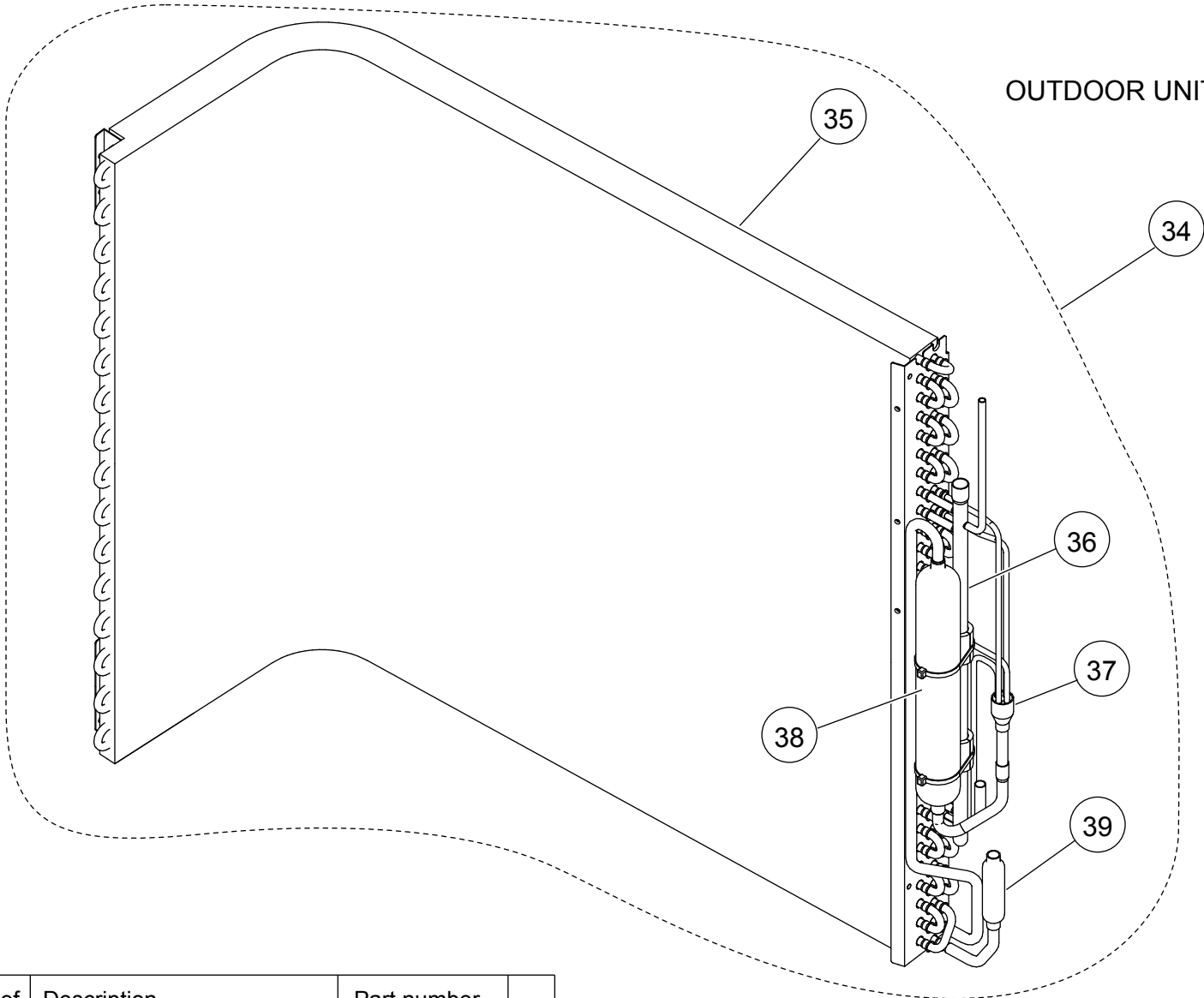


Ref.	Description	Part number
21	Base Assy	9374166305
22	Compressor Plate Assy	9375221058
23	Compressor Sub Assy	9374423187
24	Accumulator	9375250027
25	Separate Wall Sub Assy	9374413164
26	Choke Coil	9900366018
27	Valve Plate Assy	9374628124
28	3-way Valve Assy	9375103019
29	2-way Valve Assy	9375102012
30	Pipe Thermistor (White)	9900543020

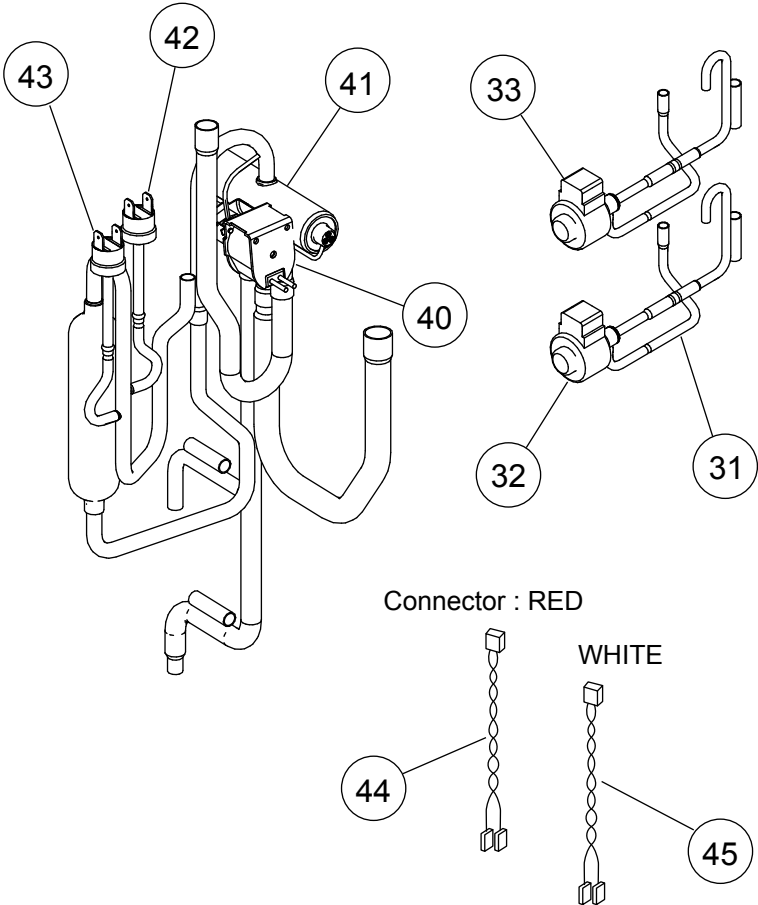


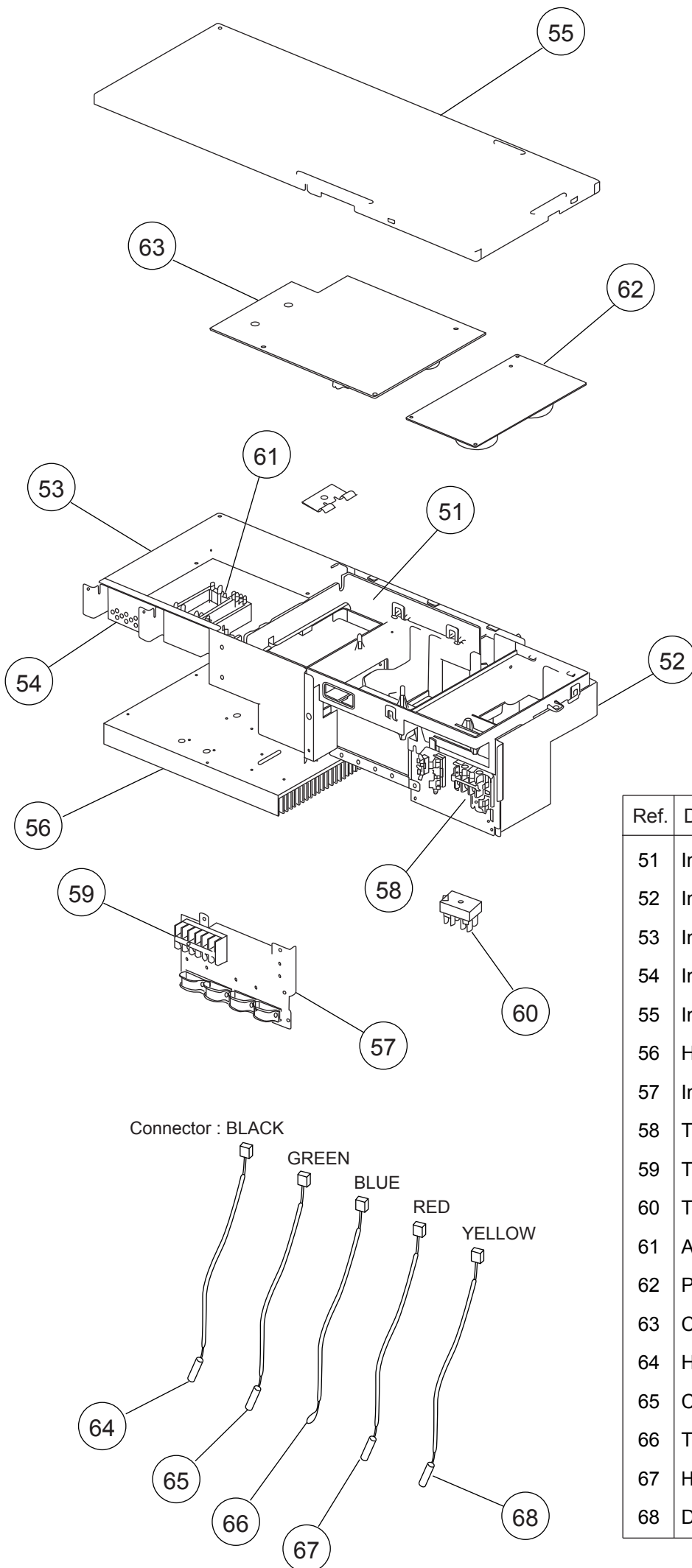


OUTDOOR UNIT



Ref.	Description	Part number
31	Expansion Valve Assy	9370947151
32	Expansion Valve Coil (A=Red)	9970101069
33	Expansion Valve Coil (B=White)	9970101038
34	Condenser Sub Assy	9374420223
35	Condenser Assy	9374433179
36	Inlet Pipe (Cond) A Assy	9373461104
37	Outlet Pipe (Cond) A Assy	9374266111
38	Receiver Tank Assy	9374575039
39	Strainer Assy	9372524015
40	Solenoid	9900165079
41	4-way Valve Sub Assy	9374425136
42	Pressure Switch A	9900186012
43	Pressure Switch B	9900341015
44	Pressure Switch Wire (Red)	9377823014
45	Pressure Switch Wire (White)	9377823021



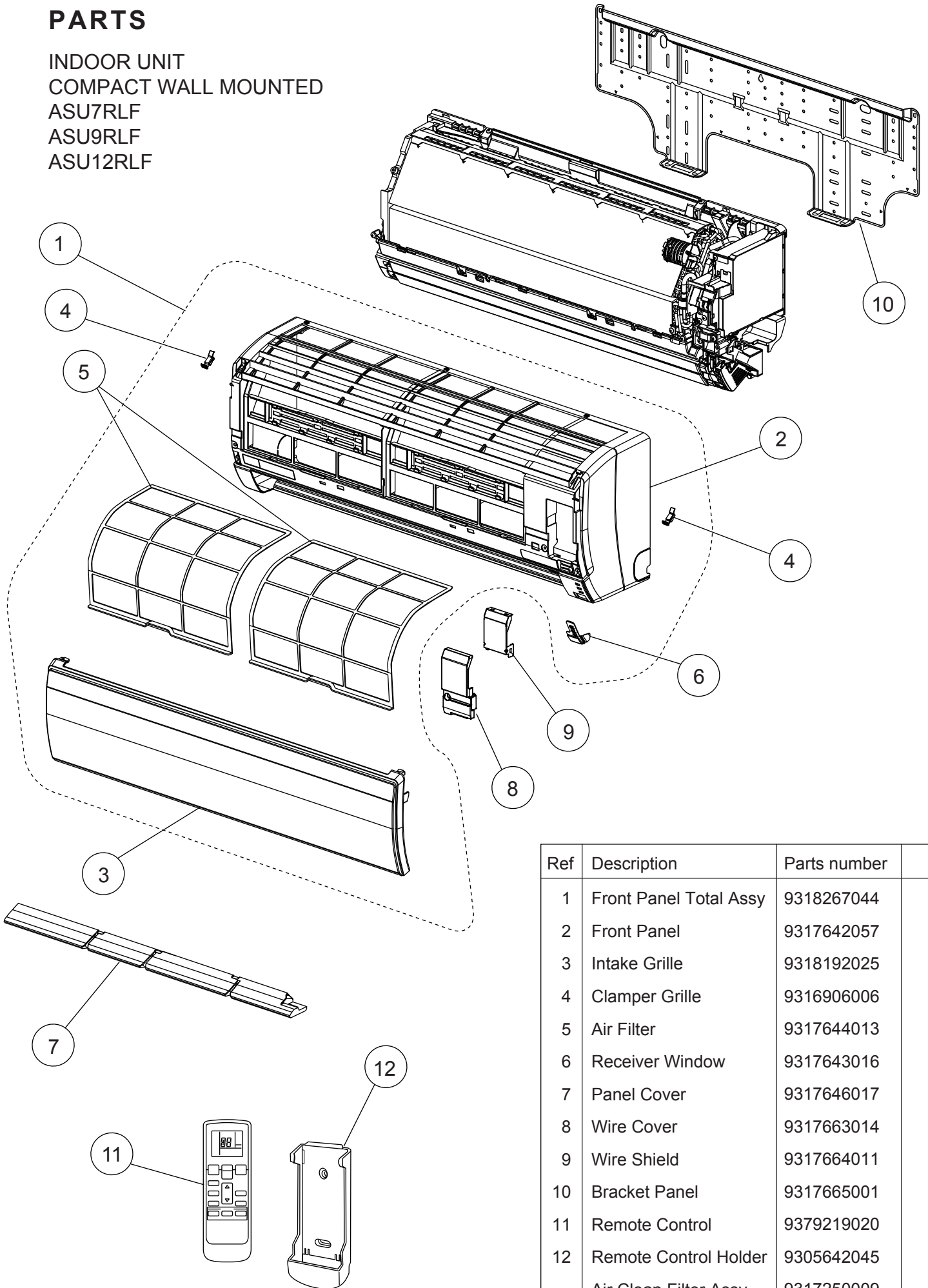


## OUTDOOR UNIT

Ref.	Description	Part number
51	Inverter Box A	9374603015
52	Inverter Box B Assy	9374625048
53	Inverter Box C	9375140014
54	Inverter Box Duct	9374609017
55	Inverter Box Cover	9375139018
56	Heat Sink A	9375138011
57	Inverter Box D	9374606047
58	Terminal (3P)	9900203016
59	Terminal (6P)	9900016036
60	Terminal (3P)	9900433017
61	ACTPM	9703457012
62	Power Supply PCB Assy	9705647183
63	Controller PCB Assy	9708013336
64	Heat Sink Thermistor	9900311018
65	Compressor Thermistor	9900156053
66	Thermistor (Outdoor)	9900477011
67	Heat Exchanger Thermistor	9900540005
68	Discharge Thermistor	9900621018

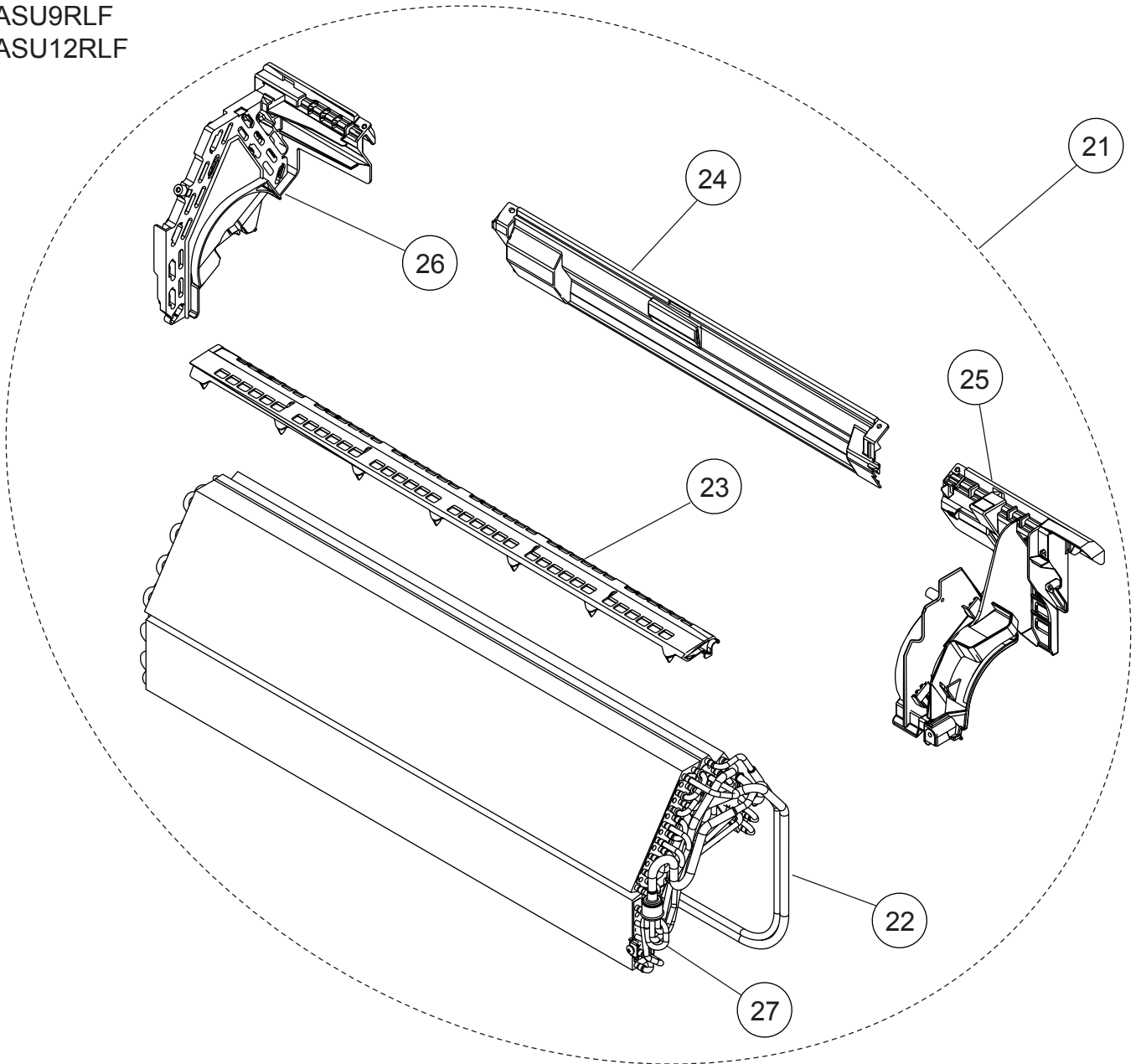
# PARTS

INDOOR UNIT  
 COMPACT WALL MOUNTED  
 ASU7RLF  
 ASU9RLF  
 ASU12RLF

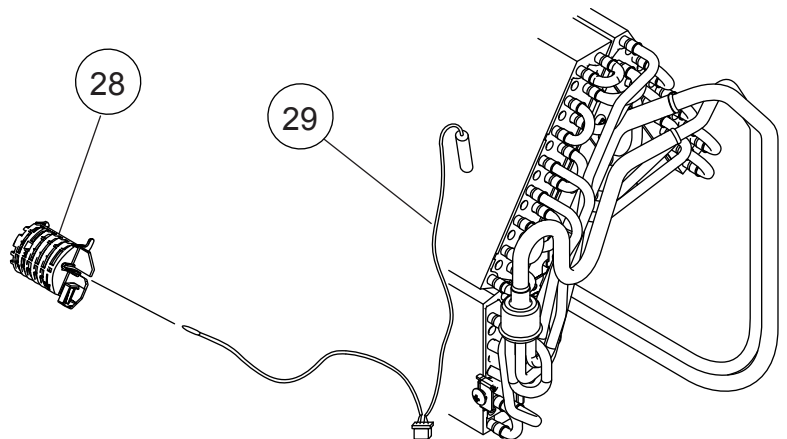


Ref	Description	Parts number
1	Front Panel Total Assy	9318267044
2	Front Panel	9317642057
3	Intake Grille	9318192025
4	Clamper Grille	9316906006
5	Air Filter	9317644013
6	Receiver Window	9317643016
7	Panel Cover	9317646017
8	Wire Cover	9317663014
9	Wire Shield	9317664011
10	Bracket Panel	9317665001
11	Remote Control	9379219020
12	Remote Control Holder	9305642045
--	Air Clean Filter Assy	9317250009

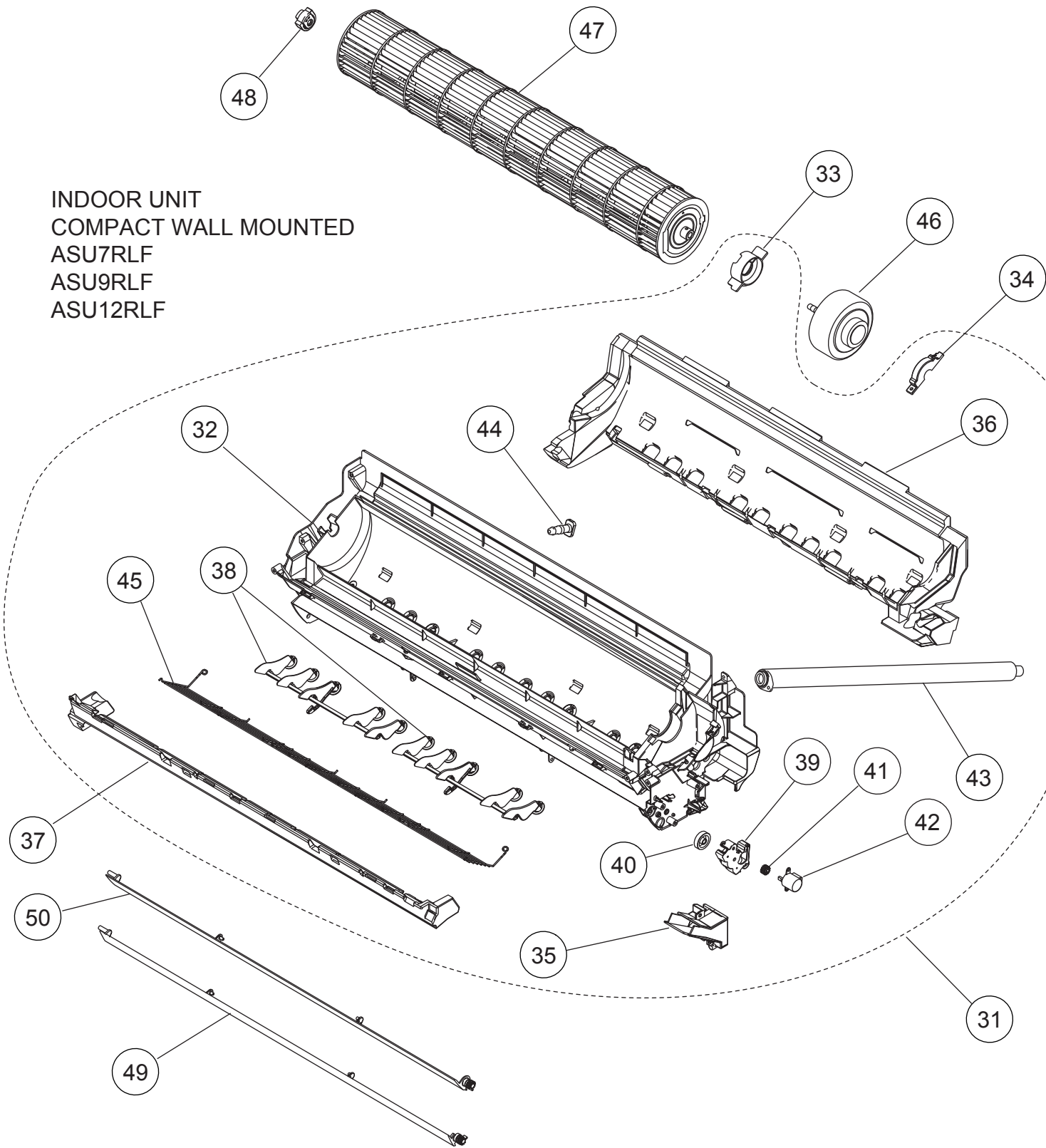
INDOOR UNIT  
 COMPACT WALL MOUNTED  
 ASU7RLF  
 ASU9RLF  
 ASU12RLF



Ref	Description	Parts number
21	Evaporator Total Assy	9317820011
22	Joint Pipe Assy	9317838009
23	Filter Guide	9317652001
24	Rear Bracket	9317651004
25	Evaporator Holder R	9317650007
26	Evaporator Holder L	9317649001
27	Distributor Assy	9318579000
28	Holder (Room Thermistor)	9316895003
29	Thermistor Assy	9900563004

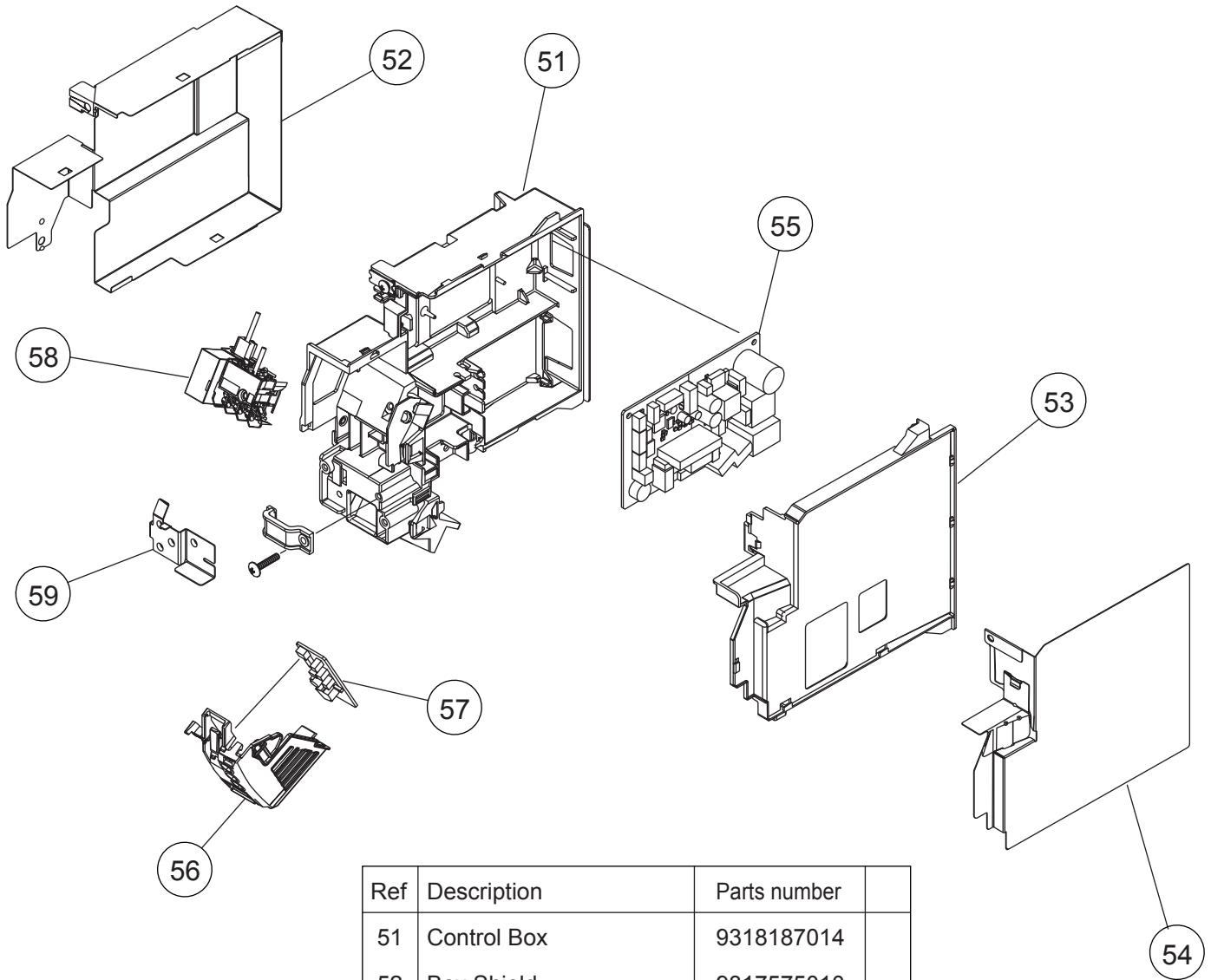


INDOOR UNIT  
 COMPACT WALL MOUNTED  
 ASU7RLF  
 ASU9RLF  
 ASU12RLF



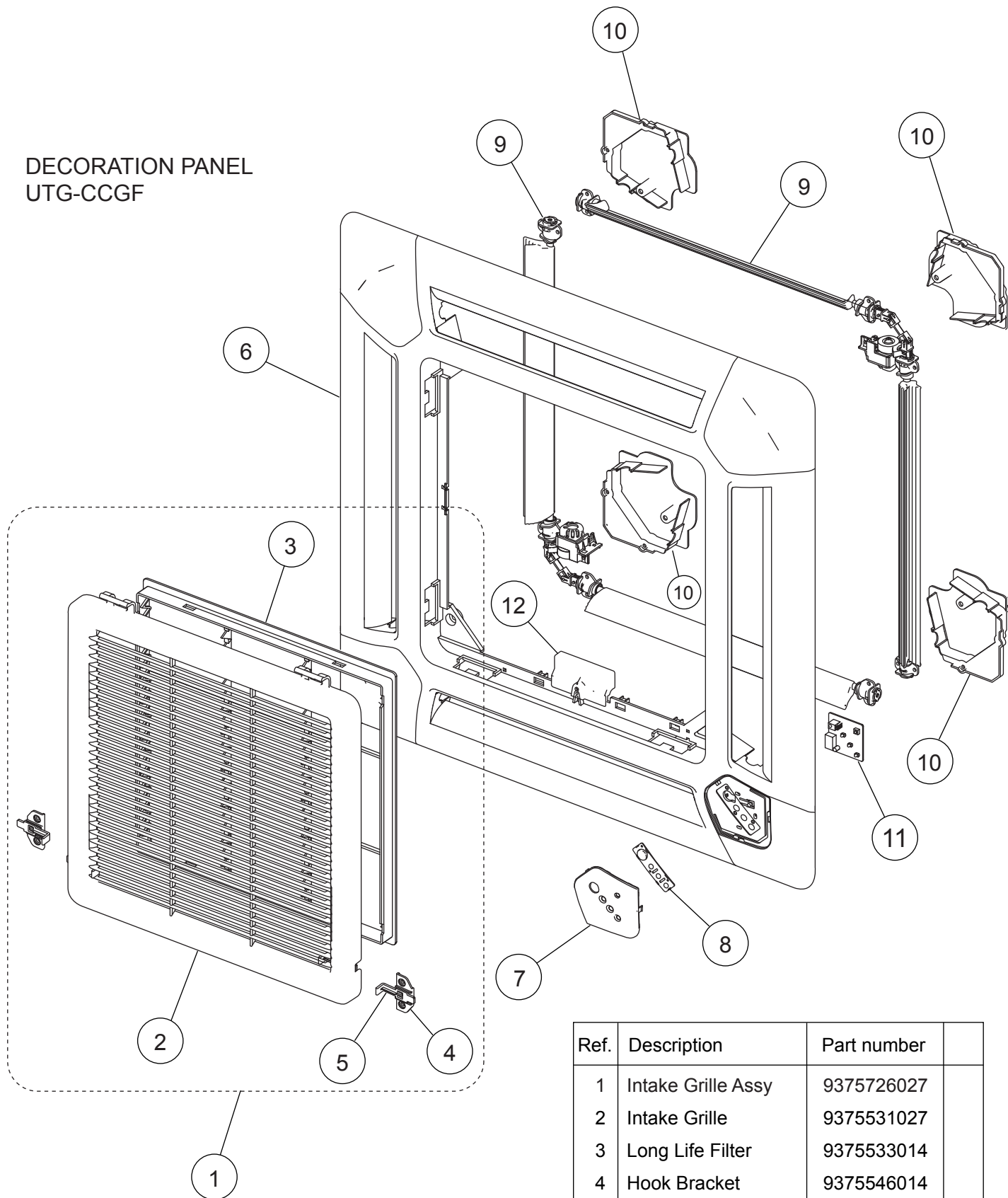
Ref	Description	Parts number	Ref	Description	Parts number
31	Casing Assy	9318264043	41	Gear A	9309994003
32	Casing	9317647014	42	Motor Step	9900384128
33	Motor Cover	9316568006	43	Drain Hose Assy	9316904002
34	Motor Cover	9316601000	44	Drain Cap	9316177017
35	Cable Guide	9317680011	45	Fan Guard	9332277005
36	Casing Cover B	9317653015	46	Fan Motor	9602704019
37	Casing Cover F	9317654005	47	Crossflow Fan Assy	9316830004
38	R AND L Louver B	9316961012	48	Bearing C Assy	9306628017
39	Louver Gear Holder	9317669016	49	Louver U	9317656016
40	Louver Gear	9317648004	50	Louver Z	9317657006

INDOOR UNIT  
 COMPACT WALL MOUNTED  
 ASU7RLF  
 ASU9RLF  
 ASU12RLF



Ref	Description	Parts number
51	Control Box	9318187014
52	Box Shield	9317575010
53	Control Cover	9317659024
54	Cover Shield	9317923002
55	Controller PCB Assy (7)	9708536019
55	Controller PCB Assy (9)	9708536026
55	Controller PCB Assy (12)	9708536033
56	Display Case	9317662000
57	Display PCB Assy	9707649024
58	Terminal	9900529017
59	Earth Terminal	9316586017

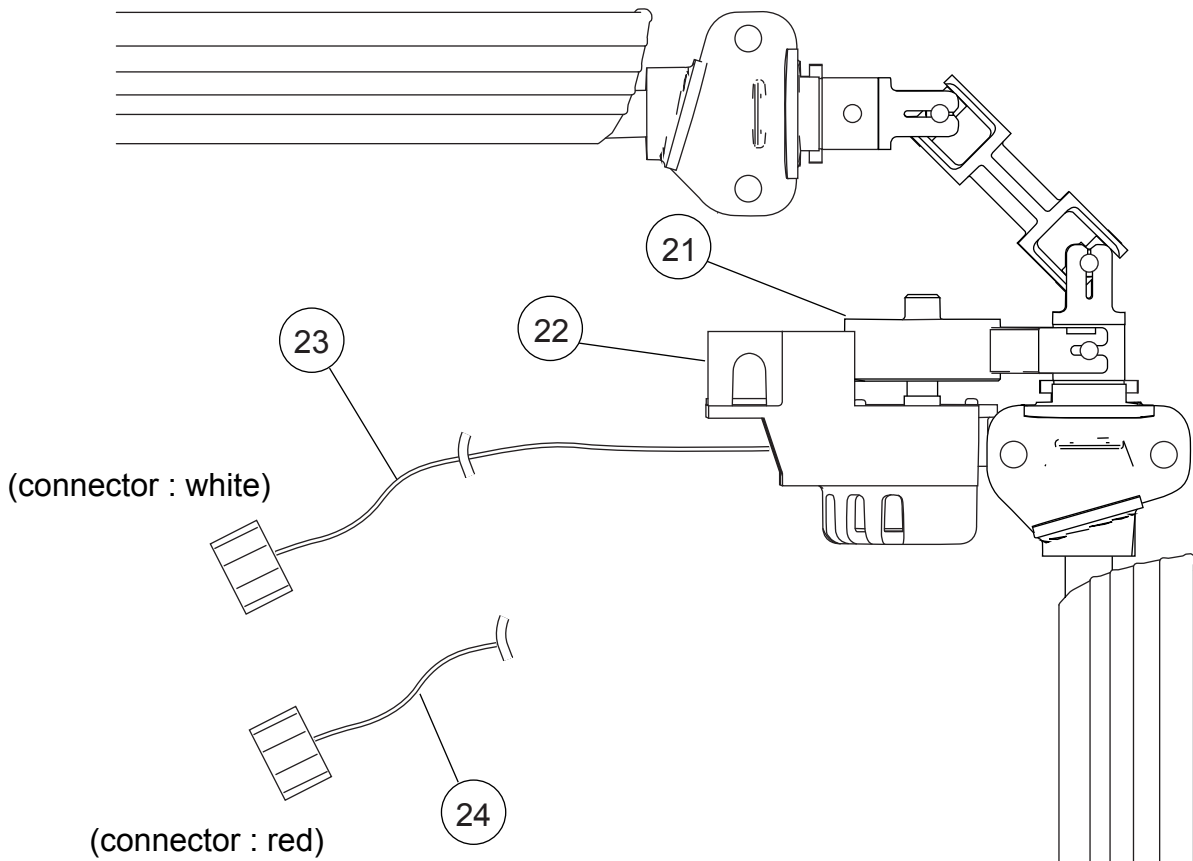
DECORATION PANEL  
UTG-CCGF



Ref.	Description	Part number
1	Intake Grille Assy	9375726027
2	Intake Grille	9375531027
3	Long Life Filter	9375533014
4	Hook Bracket	9375546014
5	Grille Hook	9375532024
6	Decoration Panel without Insulations	9375525033
7	Display Panel	9375529123
8	Receiver Window	9375547011
9	Flap Total Assy	9377760029
10	Panel Cover without Insulations	9375530013
11	Indicator PCB Assy	9707371031
12	Connector Cover	9375549015

DECORATION PANEL  
 UTG-CCGF

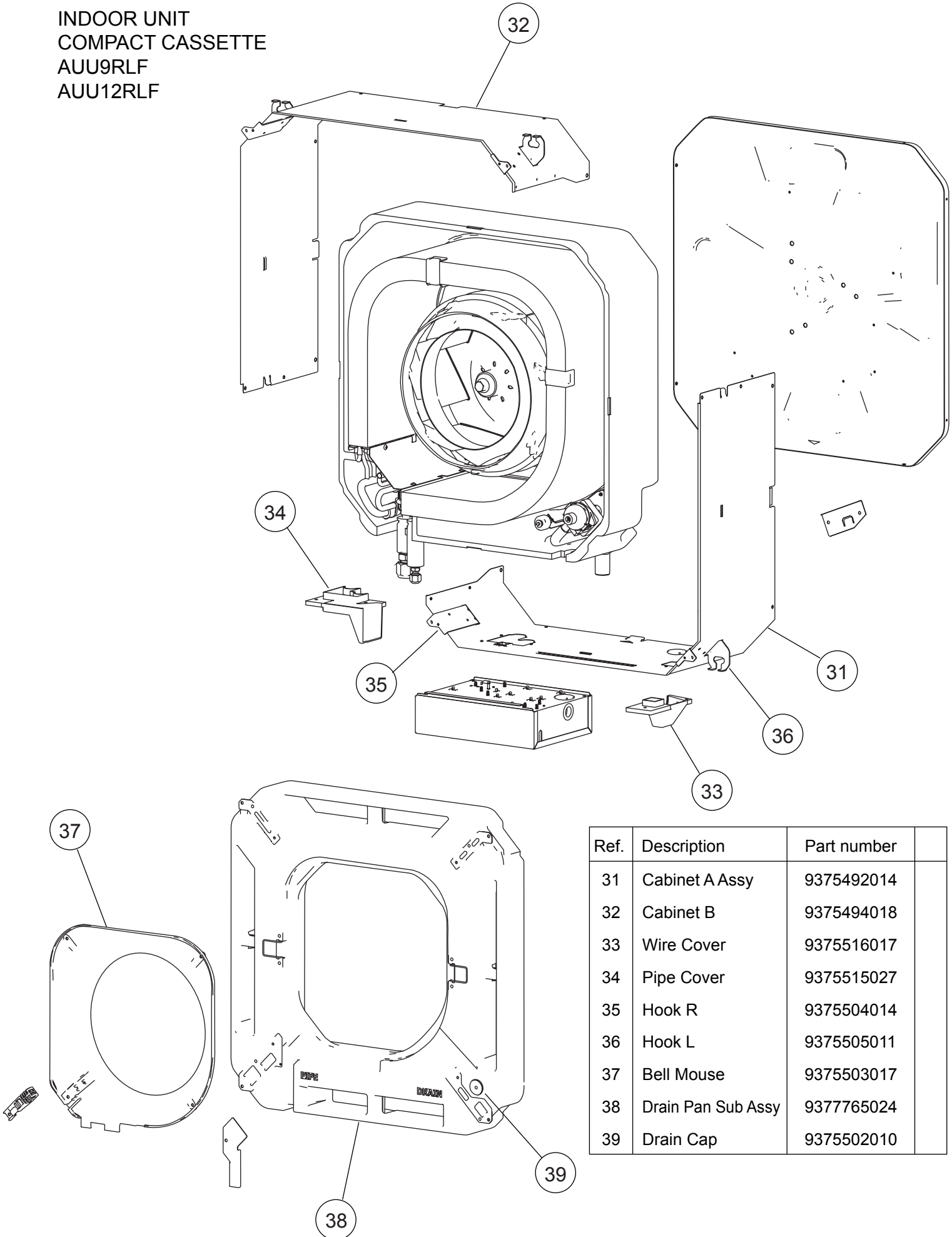
Flap total assy  
 Motor holder assy



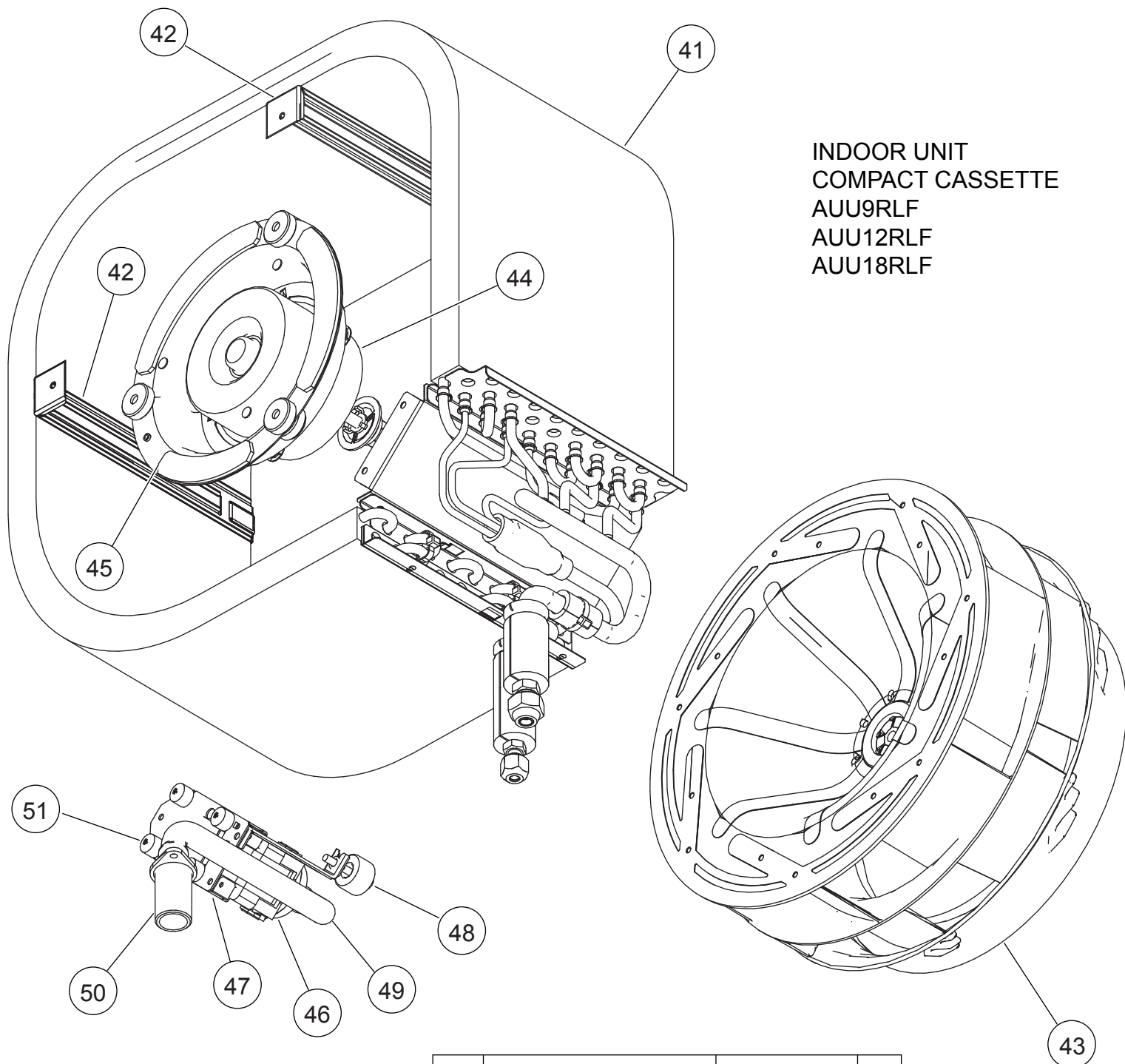
Ref.	Description	Part number	
21	Gear A	9375536015	
22	Motor Holder	9375535018	
23	Step Motor (white connector)	9900139070	
24	Step Motor (red connector)	9900139087	



INDOOR UNIT  
 COMPACT CASSETTE  
 AUU9RLF  
 AUU12RLF

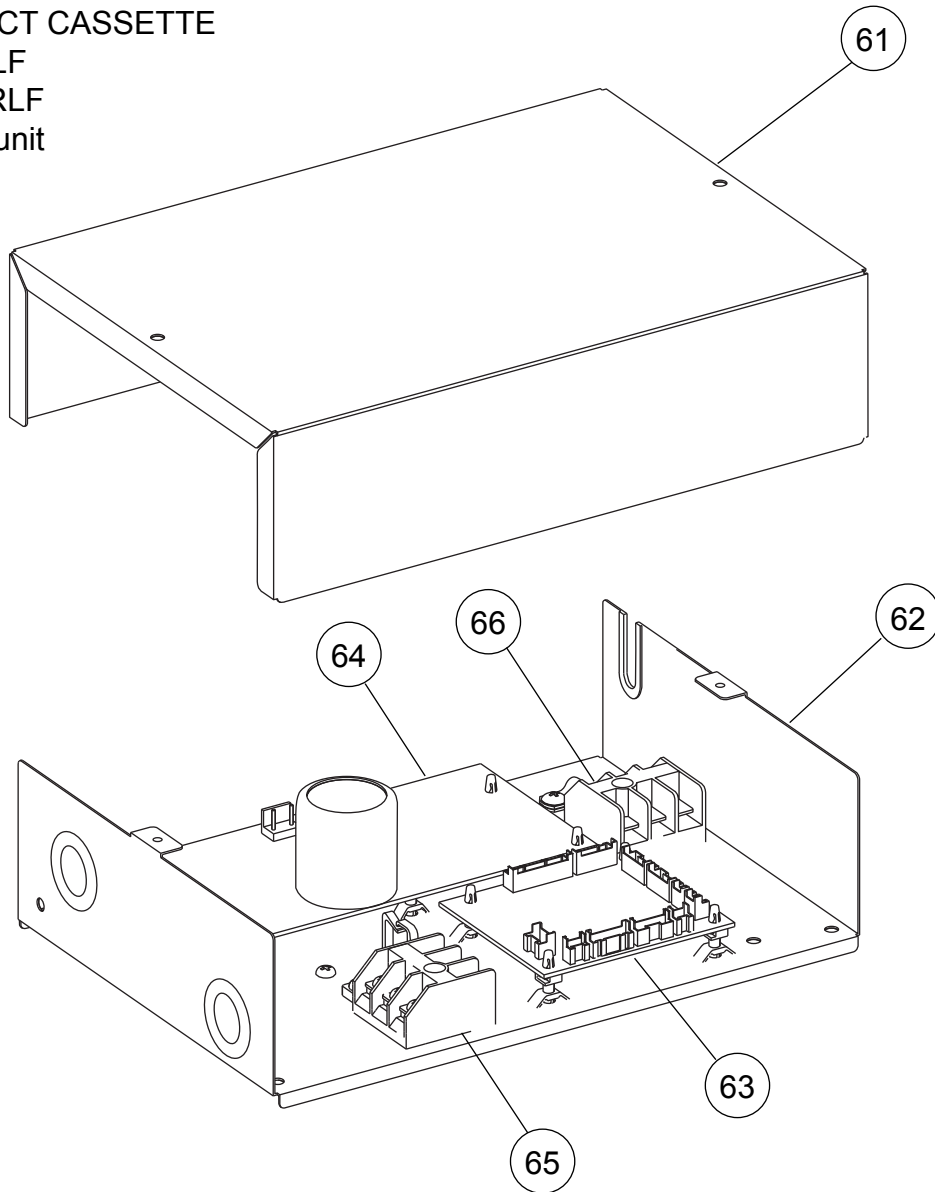


Ref.	Description	Part number
31	Cabinet A Assy	9375492014
32	Cabinet B	9375494018
33	Wire Cover	9375516017
34	Pipe Cover	9375515027
35	Hook R	9375504014
36	Hook L	9375505011
37	Bell Mouse	9375503017
38	Drain Pan Sub Assy	9377765024
39	Drain Cap	9375502010

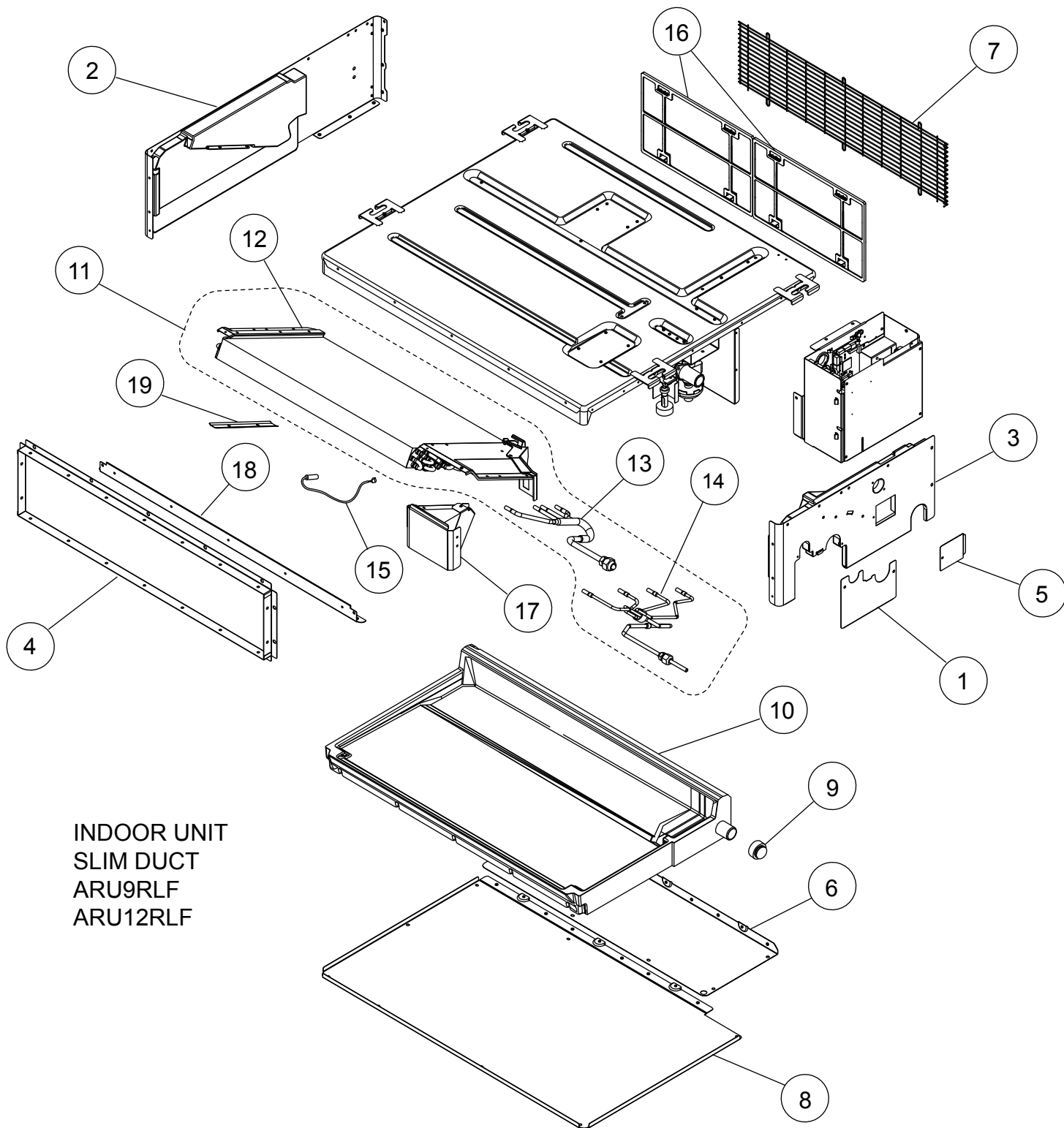


Ref.	Description	Part number
41	Evaporator Total Assy	9377914033
42	Evaporator Holder	9375508012
43	2 Stage Turbo Fan Assy	9375480011
44	Fan Motor	9602870004
45	Fan Motor Holder	9375552015
46	Pump Assy	9900472030
47	Drain Pump Holder B	9375518011
48	Float Switch	9900361037
49	Drain Hose	9375519018
50	Drain Port	9375520014
51	Rubber (Pump)	9378426016

INDOOR UNIT  
 COMPACT CASSETTE  
 AUU9RLF  
 AUU12RLF  
 Control unit



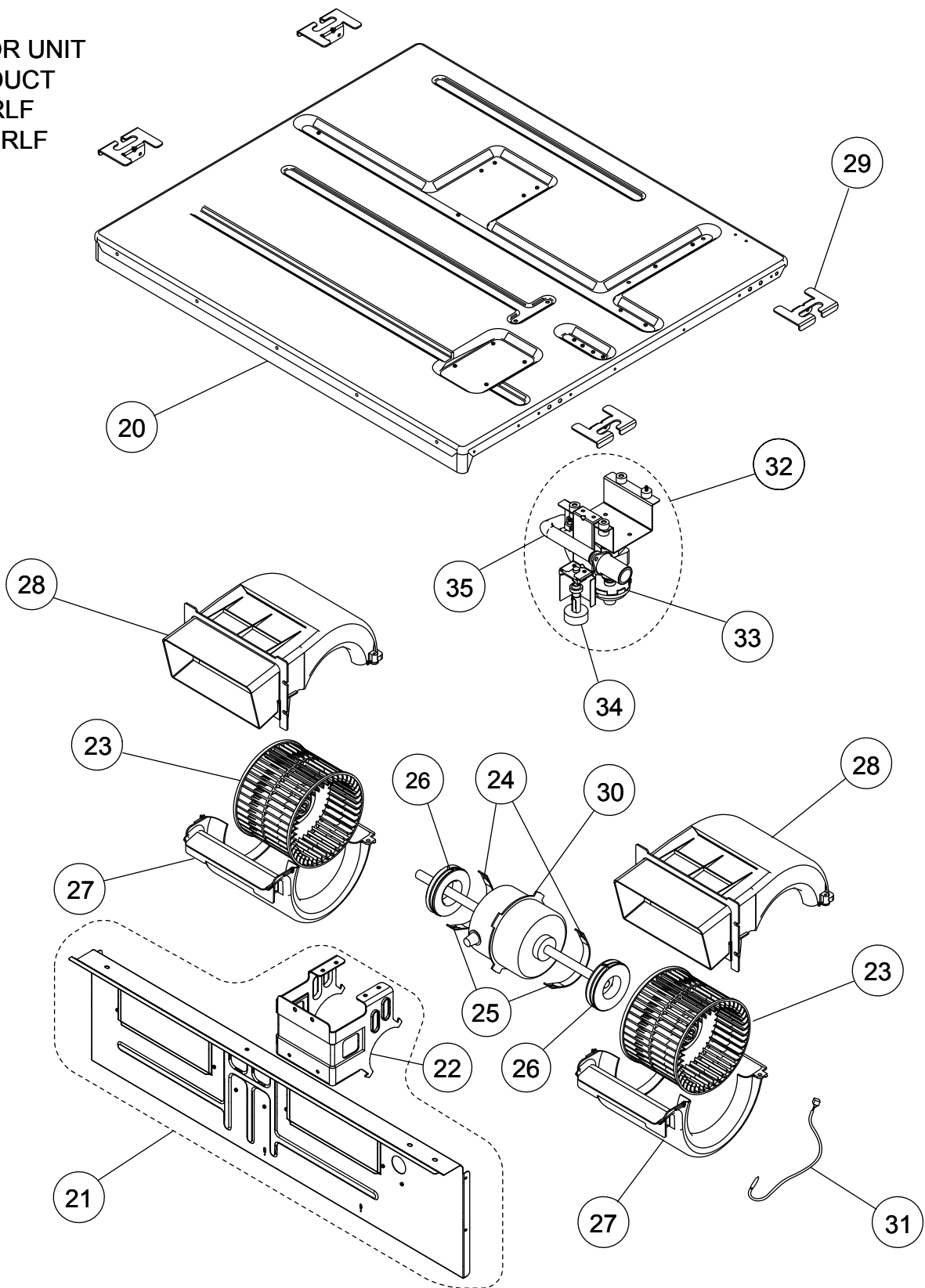
Ref.	Description	Part number	
61	Control Box Cover	9375512019	
62	Control Box A Assy	9379250016	
63	Controller PCB Assy (9)	9707393668	
63	Controller PCB Assy (12)	9707393712	
64	Power Supply PCB Assy	9707398236	
65	Terminal	9306489045	
66	Terminal	9703345012	
--	Pipe Thermistor	9703297014	
--	Room Thermistor	9900502003	
--	Remote Control	9318593006	



INDOOR UNIT  
SLIM DUCT  
ARU9RLF  
ARU12RLF

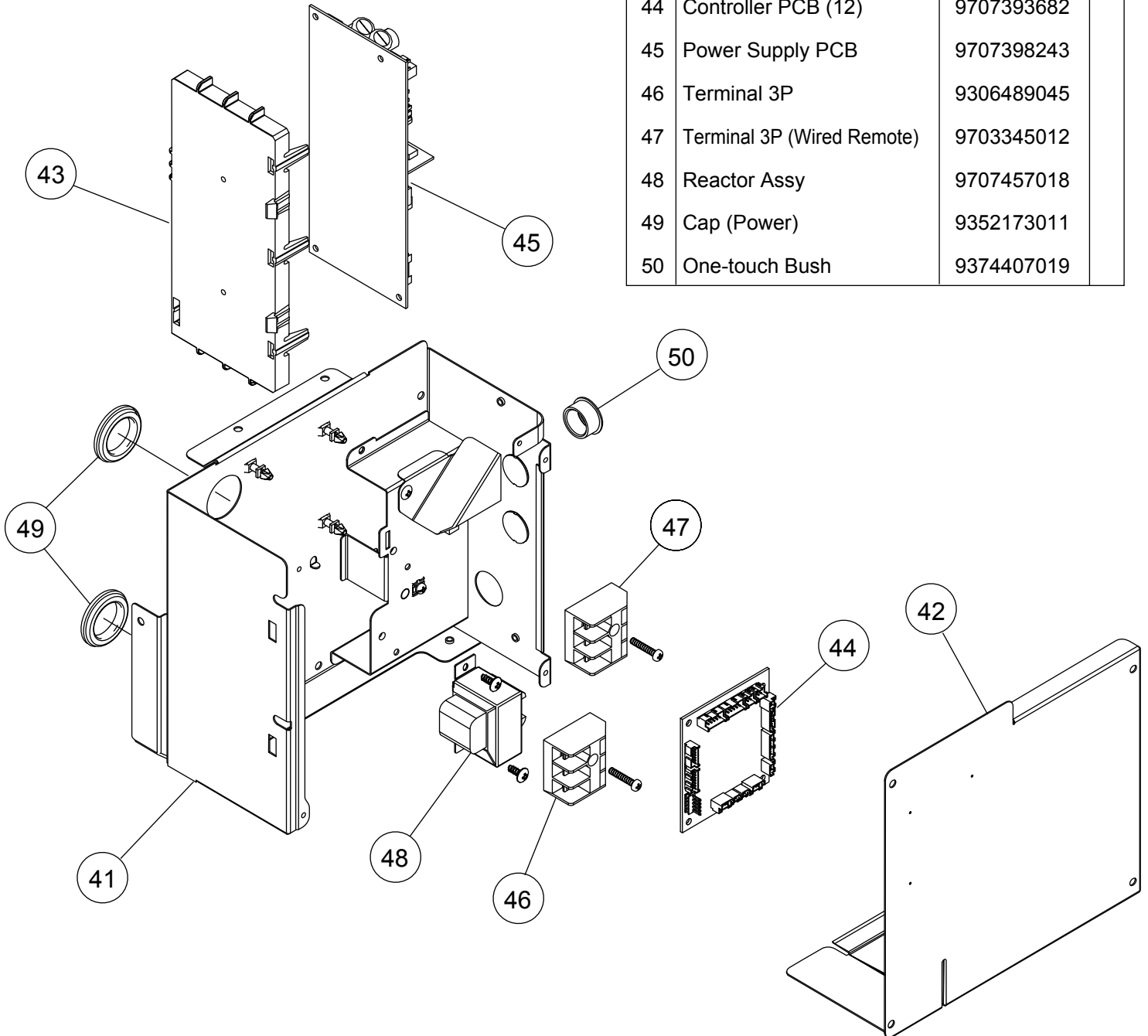
Ref	Description	Parts number	Ref	Description	Parts number
1	Pipe Panel Sub Assy	9379900003	11	Evaporator Total Assy	9364499581
2	Side Panel R Sub Assy	9379906005	12	Evaporator Assy	9372972076
3	Side Panel L Sub Assy	9379907002	13	Coupling Pipe Assy	9373038764
4	Outlet Frame Sub Assy	9379909006	14	Distributor Assy	9373034384
5	Panel (Window) Sub Assy	9379915007	15	Thermistor (Pipe)	9900498085
6	Cabinet Panel (2 Fan)	9379596008	16	Air Filter	9379574006
7	Fan Guard (2 Fan)	9379637008	17	Valve Cover Sub Assy	9379576000
8	Main Panel Sub Assy	9379902007	18	Front Panel (2 Fan)	9379593007
9	Cap (Drain)	9358746004	19	Cover Pipe Sub Assy	9380033004
10	Drain Pan Sub Assy	9379901000			

INDOOR UNIT  
SLIM DUCT  
ARU9RLF  
ARU12RLF



Ref	Description	Parts number	Ref	Description	Parts number
20	Top Panel Sub Assy	9379908009	28	Casing U	9379571005
21	Separator Sub Assy	9379898003	29	Hook Metal	9379889001
22	Motor Mount	9379612005	30	Fan Motor Assy	9602967018
23	Sirroco Fan Assy	9379570015	31	Thermistor (Room)	9703299247
24	Motor Band Assy	9379613002	32	Drain Pump Sub Assy	9379914000
25	Motor Band	9379614009	33	Pump Assy	9900472047
26	Rubber (Vibration Proof)	9379644006	34	Float Switch	9900465032
27	Casing B	9379572002	35	Drain Hose Assy	9379913003

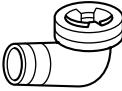

INDOOR UNIT  
SLIM DUCT  
ARU9RLF  
ARU12RLF



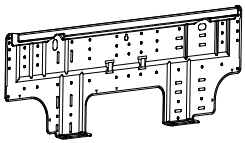
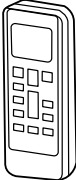
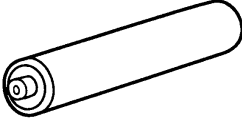


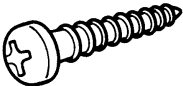

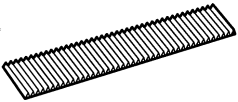
Ref	Description	Parts number
41	Control Box Assy	9380041016
42	Control Cover Sub Assy	9379806022
43	PCB Holder	9379402019
44	Controller PCB (9)	9707393675
44	Controller PCB (12)	9707393682
45	Power Supply PCB	9707398243
46	Terminal 3P	9306489045
47	Terminal 3P (Wired Remote)	9703345012
48	Reactor Assy	9707457018
49	Cap (Power)	9352173011
50	One-touch Bush	9374407019

## ACCESSORIES

### OUTDOOR UNIT





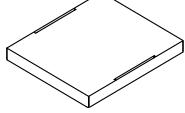
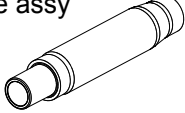


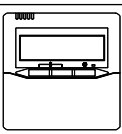
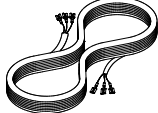
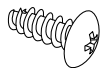
Name and Shape	Q'ty	Use
Drain pipe 	1	For drain piping work
Drain cap 	5	

INDOOR UNIT  
 COMPACT WALL MOUNTED  
 ASU7RLF, ASU9RLF, ASU12RLF

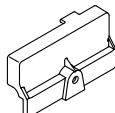



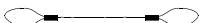


Name and Shape	Q'ty
Wall hook bracket 	1
Remote control 	1
Battery 	2
Remote control holder 	1
Cloth tape 	1
Tapping screw (big) 	8
Tapping screw (small) 	2
Air cleaning filter 	2



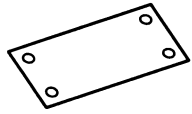


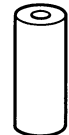

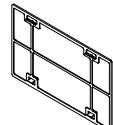
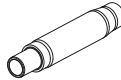





**INDOOR UNIT  
COMPACT CASSETTE  
AUU9RLF, AUU12RLF**

Name and Shape	Q'ty	Application
Coupler heat insulation (Small) 	1	For indoor side pipe joint (Liquid pipe)
Coupler heat insulation (Large) 	1	For indoor side pipe joint (Gas pipe)
Special nut A (Large flange) 	4	For installing indoor unit
Special nut B (Small flange) 	4	For installing indoor unit
Template (Carton top) 	1	For ceiling openings cutting Also used as packing
Drain hose assy 	1	For installing drain pipe 19 mm (3/4 in.) [O.D. 27 mm (1-1/16 in.)]
Hose band assy 	1	For installing drain pipe (3/4 in.)
Drain hose insulation 	1	For installing drain hose
Wired remote control 	1	
Remote control cable 	1	For connecting the remote control
Tapping screw (M4 × 16 mm) 	2	For installing the wired remote control

**DECORATION PANEL  
UTG-CCGF**

Name and Shape	Q'ty	Application
Connector cover 	1	For covering connector
Tapping Screw (M5 × 12 mm) 	4	For mounting decoration panel
Tapping Screw (M4 × 12 mm) 	1	For mounting connector cover
L angle 	2	For mounting the Hook Wire to the Decoration panel
Hook wire 	2	For suspending the Decoration panel
Screw [pitch small] (M4 × 10 mm) 	2	For mounting the Hook Wire (for metals)
Screw [pitch large] (M4 × 10 mm) 	4	For mounting the L angle and Hook wire (for resins)

INDOOR UNIT  
SLIM DUCT  
ARU9RLF  
ARU12RLF

Name and Shape	Q'ty	Application
Installation template 	1	For positioning the indoor unit
Washer 	8	For installing indoor unit
Coupler heat insulation (Large) 	1	For indoor side pipe joint (Large pipe)
Coupler heat insulation (Small) 	1	For indoor side pipe joint (Small pipe)
Binder 	Medium 3	For power supply and remote control cable binding.
	Large 4	For fixing the coupler heat insulation.
Filter (Small) 	2	(ARU9RLF ARU12RLF)
Drain hose 	1	For installing drain pipe 3/4 in. (O.D. 1-1/16 in.)
Hose band 	1	For installing drain hose
Drain hose insulation B 	1	Insulates the drain hose
Wired remote control 	1	
Remote control cable 	1	For connecting the remote control
Tapping screw (M4 × 16 mm) 	2	For installing the remote control

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