

SERVICE MANUAL



** VERSION T	
Model	Serial Number Range
ARU9RLF	KYA000001-KYA001602
ARU12RLF	LNA000001-LNA001771
ARU18RLF	LPA000001-LPA001076
ARU24RLF	LQA000001-LQA000634

** VERSION R	
Model	Serial Number Range
ARU9RLF	KYA002001~
ARU12RLF	LNA002001~
ARU18RLF	LPA002001~
ARU24RLF	LQA002001~

Outdoor unit
AOU48RLXFZ

Branch box
UTP-PU03A
UTP-PU03B

Separation tube
UTP-SX248A

Indoor unit
ASU7RLF
ASU9RLF
ASU12RLF
ASU18RLF
ASU24RLF
AUU9RLF
AUU12RLF
AUU18RLF
UTG-CCGF
ARU9RLF**
ARU12RLF**
ARU18RLF**
ARU24RLF**

CONTENTS

SPECIFICATIONS	1
DIMENSIONS	7
REFRIGERANT SYSTEM DIAGRAM ...	15
CIRCUIT DIAGRAM	17
OUTDOOR PCB CIRCUIT DIAGRAM ...	23
BRANCH BOX PCB CIRCUIT DIAGRAM ...	29
INDOOR PCB CIRCUIT DIAGRAM	33
ERROR DETECTION	47
PARTS (OUTDOOR UNIT)	51
PARTS (BRANCH BOX)	55
PARTS (INDOOR UNIT)	58
ACCESSORIES	80

Models with ** have different version

SPECIFICATIONS

OUTDOOR UNIT

ELECTRICAL DATA

TYPE			Hybrid flex inverter system
MODEL NAME			AOU48RLXFZ
POWER SUPPLY			208 V / 230 V
FREQUENCY			60 Hz
CAPACITY	Cooling	Rated	48,000 Btu/h (14.1 kW)
		Max	51,100 Btu/h
	Heating	Rated	54,000 Btu/h (15.8 kW)
		Max	57,000 Btu/h
INPUT POWER	Cooling	Rated	5.27 kW
		Max.	5.98 kW
	Heating	Rated	4.83 kW
		Max.	5.98 kW
CURRENT	Cooling	Rated	23.4 A
		Max.	26.5 A
	Heating	Rated	21.4 A
		Max.	26.5 A

FAN MOTOR

DISCRIMINATION		MFE-45WVN
SPEED	Cooling	890 r.p.m.
	Heating	910 r.p.m.
AIR FLOW	Cooling (Rated)	2,737 cfm (4,650 m3/h)
	Heating (Rated)	2,825 cfm (4,800 m3/h)
NOISE LEVEL	Cooling (Rated)	56 dB(A)
	Heating (Rated)	58 dB(A)

COMPRESSOR AND REFRIGERANT

TYPE	Hermetic type, Inverter, 4 poles, 3-phase, DC motor, Twin Rotary
DISCRIMINATION	808 688 80(B)
WEIGHT	57.3 lbs (26.0 kg)
PRECHARGED REFRIGERANT	7.6 lbs (3,450 g)
REFRIGERANT TYPE	R410A

MEASUREMENT

DIMENSIONS	H x W x D	36 x 38-1/4 x 14-5/8 inch (914 x 970 x 370 mm)
WEIGHT	Net / Shipping	216 lbs / 234 lbs (98 kg / 106 kg)

BRANCH BOX

ELECTRICAL DATA

MODEL NAME	UTP-PU03A (Primary) UTP-PU03B (Secondary)
MAX. COMBINATION	62,000 Btu/h
MIN. COMBINATION	7,000 Btu/h
POWER CONSUMPTION	10 W
RUNNING CURRENT	0.05 A

MEASUREMENT

DIMENSIONS	H x W x D	7-5/8 x 17 x 14-5/8 inch (195 x 433 x 370 mm)
WEIGHT	Net / Shipping	20 lbs / 29 lbs (9 kg / 13 kg)

INDOOR UNIT
COMPACT WALL MOUNTED

ELECTRICAL DATA

MODEL NAME		ASU7RLF	ASU9RLF	ARU12RLF
CAPACITY	Cooling (Rated)	7,000 Btu/h (2.04 kW)	9,000 Btu/h (2.64 kW)	12,000 Btu/h (3.51 kW)
	Heating (Rated)	8,100 Btu/h (2.37 kW)	10,200 Btu/h (3.00 kW)	13,500 Btu/h (3.96 kW)
POWER CONSUMPTION		15 W	17 W	22 W
RUNNING CURRENT		0.13 A	0.15 A	0.19 A
MOISTURE REMOVAL		1.7 Pints/h (0.8 L/h)	2.7 Pints/h (1.3 L/h)	3.8 Pints/h (1.8 L/h)

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 ³ /h)	353 cfm (600 m ³ /h)	388 cfm (660 m ³ /h)
		Medium	294 cfm (500 m ³ /h)	306 cfm (520 m ³ /h)	330 cfm (560 m ³ /h)
		Low	253 cfm (430 m ³ /h)	253 cfm (430 m ³ /h)	265 cfm (450 m ³ /h)
		Quiet	200 cfm (340 m ³ /h)	200 cfm (340 m ³ /h)	200 cfm (340 m ³ /h)
	Heating	High	330 cfm (560 m ³ /h)	353 cfm (600 m ³ /h)	388 cfm (660 m ³ /h)
		Medium	294 cfm (500 m ³ /h)	306 cfm (520 m ³ /h)	330 cfm (560 m ³ /h)
		Low	253 cfm (430 m ³ /h)	253 cfm (430 m ³ /h)	277 cfm (470 m ³ /h)
		Quiet	206 cfm (350 m ³ /h)	206 cfm (350 m ³ /h)	206 cfm (350 m ³ /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
WALL MOUNTED

ELECTRICAL DATA

MODEL NAME		ASU18RLF	ASU24RLF
CAPACITY	Cooling (Rated)	18,000 Btu/h (5.28 kW)	24,000 Btu/h (7.02 kW)
	Heating (Rated)	20,000 Btu/h (5.85 kW)	27,000 Btu/h (7.92 kW)
POWER CONSUMPTION		41 W	69 W
RUNNING CURRENT		0.32 A	0.53 A
MOISTURE REMOVAL		5.3 Pints/h (2.5 L/h)	5.9 Pints/h (2.8 L/h)

FAN MOTOR

DISCRIMINATION			MFD-50RON	
FAN SPEED	Cooling	High	1,250 r.p.m.	1,480 r.p.m.
		Medium	1,020 r.p.m.	1,220 r.p.m.
		Low	900 r.p.m.	1,020 r.p.m.
		Quiet	770 r.p.m.	900 r.p.m.
	Heating	High	1,250 r.p.m.	1,430 r.p.m.
		Medium	1,020 r.p.m.	1,220 r.p.m.
		Low	900 r.p.m.	1,020 r.p.m.
		Quiet	790 r.p.m.	900 r.p.m.
AIR FLOW	Cooling	High	542 cfm (920 m³/h)	659 cfm (1,120 m³/h)
		Medium	436 cfm (740 m³/h)	530 cfm (900 m³/h)
		Low	365 cfm (620 m³/h)	436 cfm (740 m³/h)
		Quiet	324 cfm (550 m³/h)	365 cfm (620 m³/h)
	Heating	High	542 cfm (920 m³/h)	647 cfm (1100 m³/h)
		Medium	436 cfm (740 m³/h)	530 cfm (900 m³/h)
		Low	365 cfm (620 m³/h)	436 cfm (740 m³/h)
		Quiet	324 cfm (550 m³/h)	365 cfm (620 m³/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 lb. / 40 lb. (14 kg / 18 kg)

INDOOR UNIT COMPACT CASSETTE

ELECTRICAL DATA

MODEL NAME		AUU9RLF	AUU12RLF	AUU18RLF
CAPACITY	Cooling (Rated)	9,000 Btu/h (2.64 kW)	12,000 Btu/h (3.51 kW)	18,000 Btu/h (5.28 kW)
	Heating (Rated)	10,200 Btu/h (3.00 kW)	13,500 Btu/h (3.96 kW)	20,000 Btu/h (5.85 kW)
POWER CONSUMPTION		18 W	23 W	39 W
RUNNING CURRENT		0.15 A	0.19 A	0.30 A
MOISTURE REMOVAL		2.5 Pints/h (1.2 L/h)	3.2 Pints/h (1.5 L/h)	4.2 Pints/h (2.0 L/h)

FAN MOTOR

DISCRIMINATION			MFF-24VVL		
FAN SPEED	Cooling	High	590 r.p.m.	660 r.p.m.	790 r.p.m.
		Medium	540 r.p.m.	580 r.p.m.	660 r.p.m.
		Low	490 r.p.m.	520 r.p.m.	570 r.p.m.
		Quiet	440 r.p.m.	460 r.p.m.	460 r.p.m.
	Heating	High	590 r.p.m.	650 r.p.m.	840 r.p.m.
		Medium	540 r.p.m.	580 r.p.m.	750 r.p.m.
		Low	490 r.p.m.	520 r.p.m.	650 r.p.m.
		Quiet	440 r.p.m.	460 r.p.m.	500 r.p.m.
AIR FLOW	Cooling	High	318 cfm (540 m³/h)	359 cfm (610 m³/h)	441 cfm (750 m³/h)
		Medium	288 cfm (490 m³/h)	312 cfm (530 m³/h)	359 cfm (610 m³/h)
		Low	259 cfm (440 m³/h)	277 cfm (470 m³/h)	306 cfm (520 m³/h)
		Quiet	230 cfm (390 m³/h)	241 cfm (410 m³/h)	241 cfm (410 m³/h)
	Heating	High	318 cfm (540 m³/h)	359 cfm (610 m³/h)	471 cfm (800 m³/h)
		Medium	288 cfm (490 m³/h)	312 cfm (530 m³/h)	418 cfm (710 m³/h)
		Low	259 cfm (440 m³/h)	277 cfm (470 m³/h)	353 cfm (600 m³/h)
		Quiet	230 cfm (390 m³/h)	241 cfm (410 m³/h)	265 cfm (450 m³/h)
NOISE LEVEL	Cooling	High	33 dB(A)	37 dB(A)	42 dB(A)
		Medium	31 dB(A)	33 dB(A)	37 dB(A)
		Low	29 dB(A)	31 dB(A)	33 dB(A)
		Quiet	27 dB(A)	28 dB(A)	29 dB(A)
	Heating	High	34 dB(A)	37 dB(A)	44 dB(A)
		Medium	32 dB(A)	33 dB(A)	40 dB(A)
		Low	29 dB(A)	31 dB(A)	37 dB(A)
		Quiet	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 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	Cooling (Rated)	9,000 Btu/h (2.64 kW)	12,000 Btu/h (3.51 kW)
	Heating (Rated)	10,200 Btu/h (3.00 kW)	13,500 Btu/h (3.96 kW)
POWER CONSUMPTION		49 W	58 W
RUNNING CURRENT		0.30 A	0.35 A
MOISTURE REMOVAL		2.7 Pints/h (1.3 L/h)	3.8 Pints/h (1.8 L/h)

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 ³ /h)	383 cfm (650 m ³ /h)
		Medium	324 cfm (550 m ³ /h)	353 cfm (600 m ³ /h)
		Low	294 cfm (500 m ³ /h)	324 cfm (550 m ³ /h)
		Quiet	265 cfm (450 m ³ /h)	283 cfm (480 m ³ /h)
	Heating	High	353 cfm (600 m ³ /h)	383 cfm (650 m ³ /h)
		Medium	324 cfm (550 m ³ /h)	353 cfm (600 m ³ /h)
		Low	294 cfm (500 m ³ /h)	324 cfm (550 m ³ /h)
		Quiet	265 cfm (450 m ³ /h)	283 cfm (480 m ³ /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)

INDOOR UNIT
SLIM DUCT

ELECTRICAL DATA

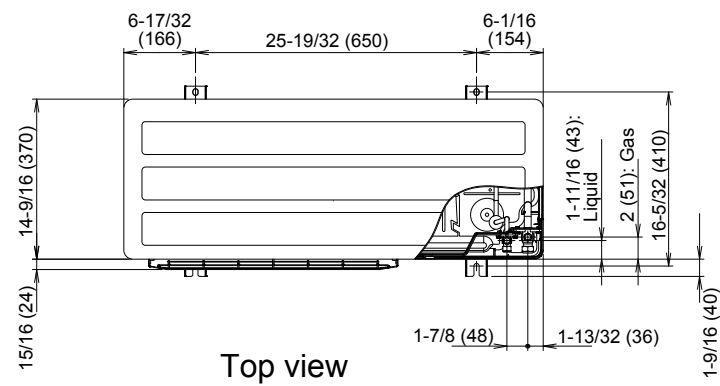
MODEL NAME		ARU18RLF	ARU24RLF
CAPACITY	Cooling (Rated)	18,000 Btu/h (5.28 kW)	24,000 Btu/h (7.02 kW)
	Heating (Rated)	20,000 Btu/h (5.85 kW)	27,000 Btu/h (7.92 kW)
POWER CONSUMPTION		73 W	111 W
RUNNING CURRENT		0.44 A	0.66 A
MOISTURE REMOVAL		4.6 Pints/h (2.2 L/h)	5.3 Pints/h (2.5 L/h)

FAN MOTOR

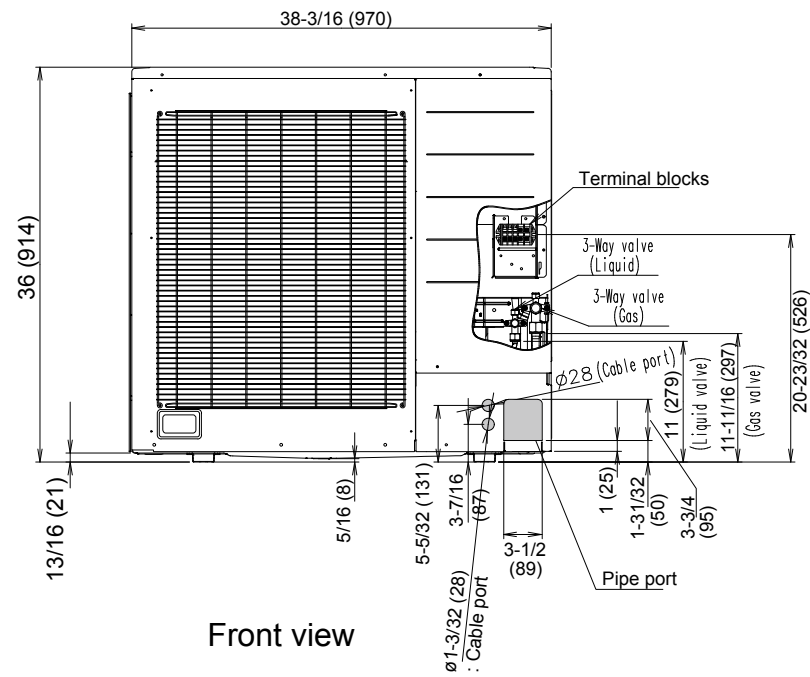
DISCRIMINATION			MFG-24WV	
FAN SPEED	Cooling	High	1,380 r.p.m.	1,460 r.p.m.
		Medium	1,300 r.p.m.	1,360 r.p.m.
		Low	1,220 r.p.m.	1,260 r.p.m.
		Quiet	1,140 r.p.m.	1,180 r.p.m.
	Heating	High	1,380 r.p.m.	1,460 r.p.m.
		Medium	1,300 r.p.m.	1,360 r.p.m.
		Low	1,220 r.p.m.	1,260 r.p.m.
		Quiet	1,140 r.p.m.	1,180 r.p.m.
AIR FLOW	Cooling	High	554 cfm (940 m ³ /h)	783 cfm (1330 m ³ /h)
		Medium	518 cfm (880 m ³ /h)	730 cfm (1240 m ³ /h)
		Low	483 cfm (820 m ³ /h)	648 cfm (1100 m ³ /h)
		Quiet	442 cfm (750 m ³ /h)	607 cfm (1030 m ³ /h)
	Heating	High	554 cfm (940 m ³ /h)	783 cfm (1330 m ³ /h)
		Medium	518 cfm (880 m ³ /h)	730 cfm (1240 m ³ /h)
		Low	483 cfm (820 m ³ /h)	648 cfm (1100 m ³ /h)
		Quiet	442 cfm (750 m ³ /h)	607 cfm (1030 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

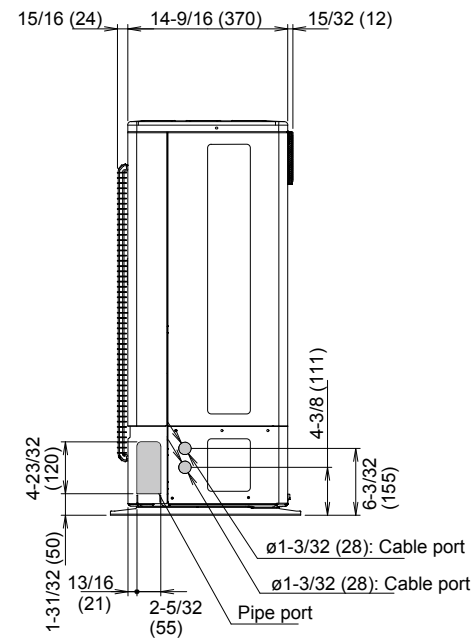
DIMENSIONS	H x W x D	7-25/32 x 35-7/16 x 24-13/32 inch (198 x 900 x 620 mm)	7-25/32 x 43-5/16 x 24-13/32 inch (198 x 1,100 x 620 mm)
WEIGHT	Net / Shipping	50 lb. / 63 lb. (23 kg / 29 kg)	59 lb. / 72 lb. (27 kg / 33 kg)



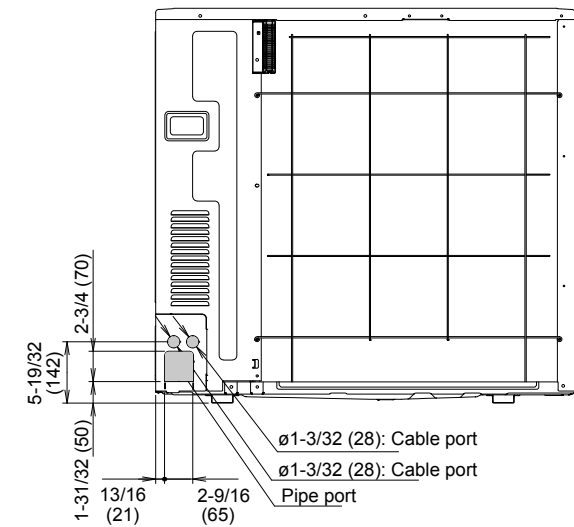
Top view



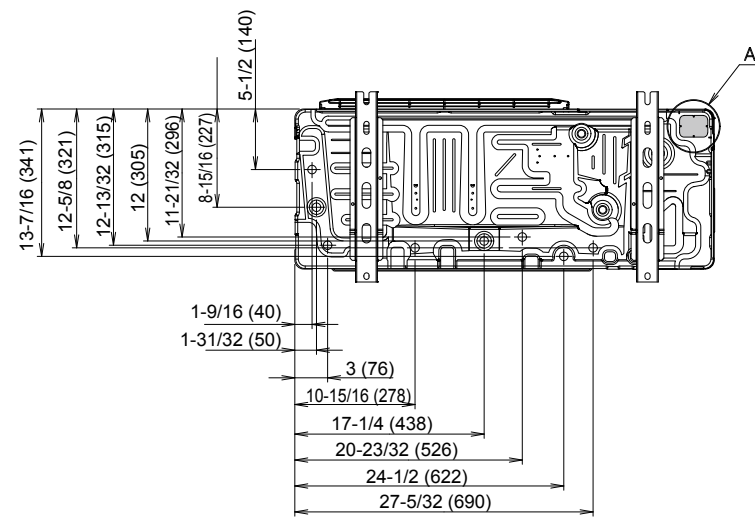
Front view



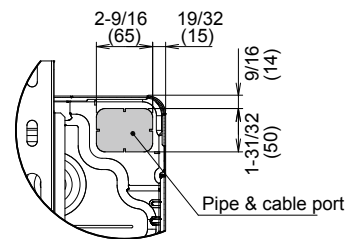
Side view



Rear view



Bottom view



Detail A

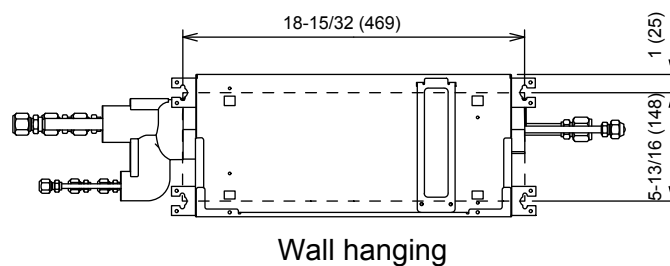
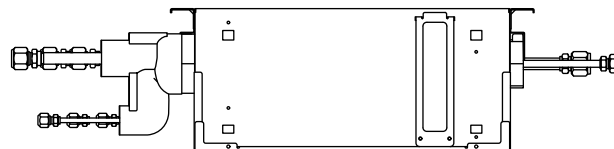
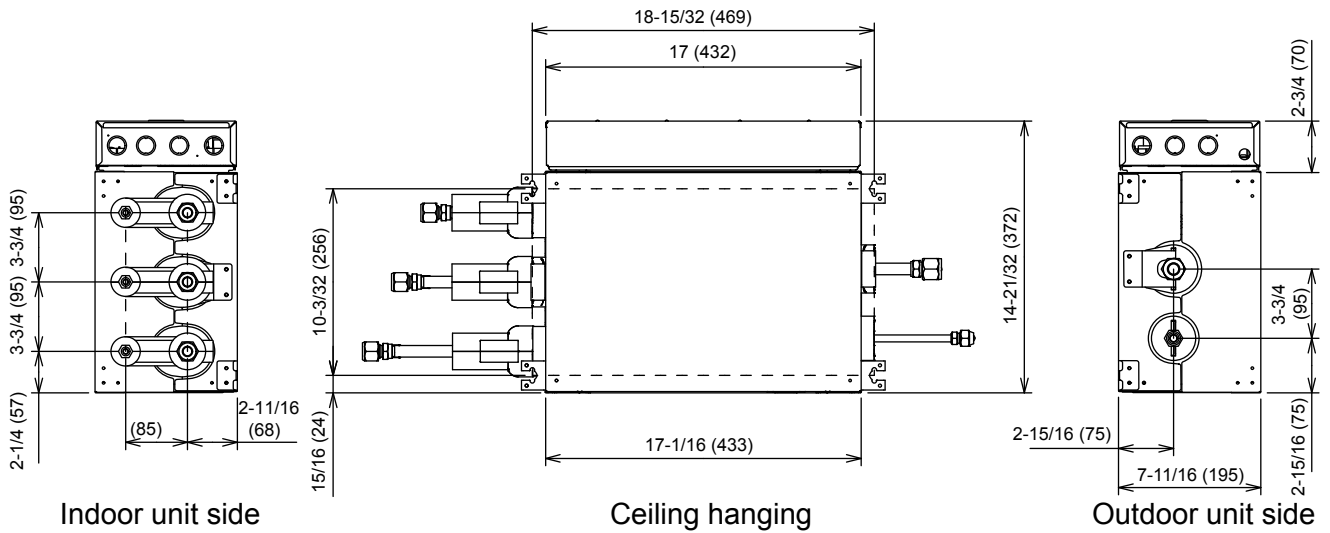
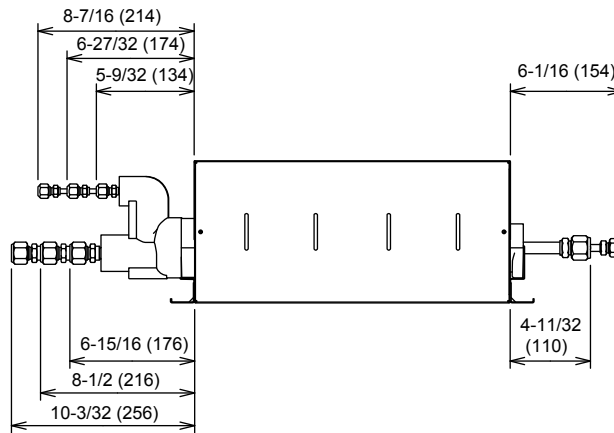
DIMENSIONS

OUTDOOR UNIT

AOU48RLXFZ

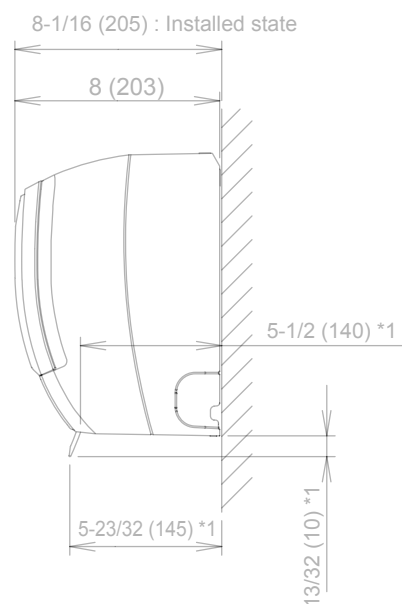
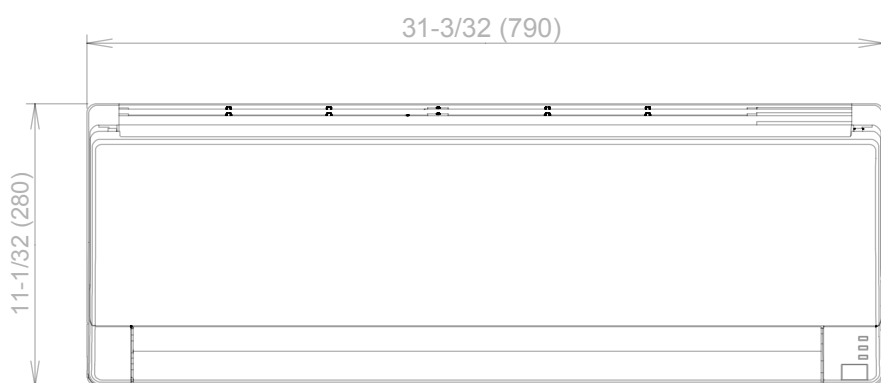
Unit : inch (mm)

BRANCH BOX
 UTP-PU03A
 UTP-PU03B
 Unit : inch (mm)

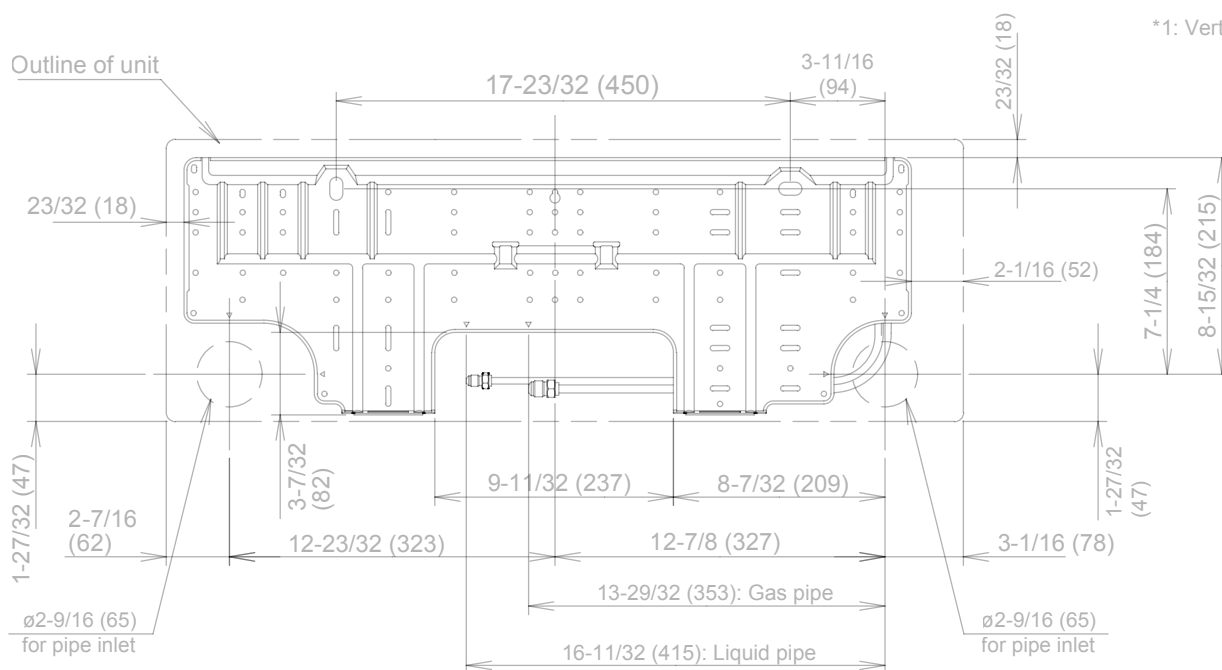


Wall hanging

INDOOR UNIT
 COMPACT WALL MOUNTED
 ASU7RLF
 ASU9RLF
 ASU12RLF
 Unit : inch (mm)

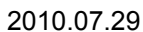


*1: Vertical flap is downward



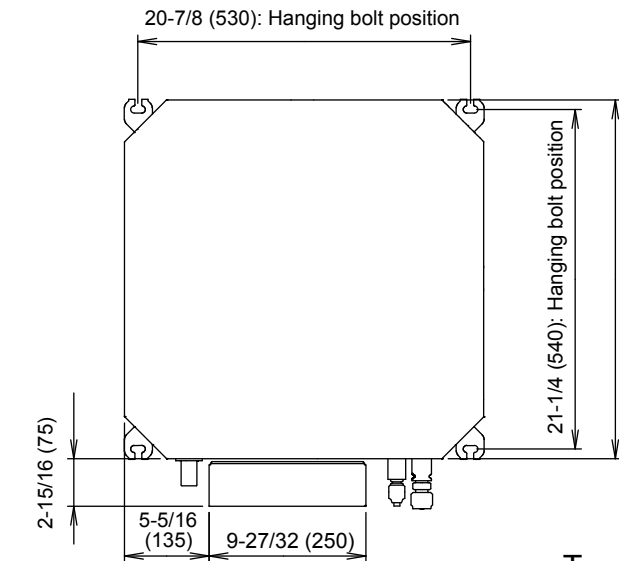
Unit : inch (mm)

Unit : inch (mm)

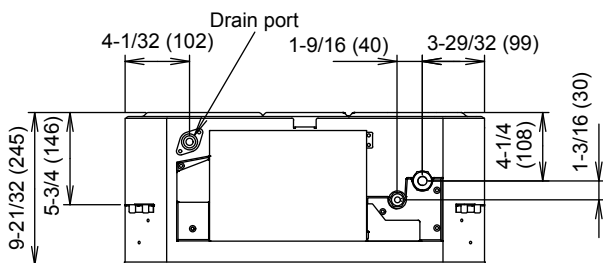
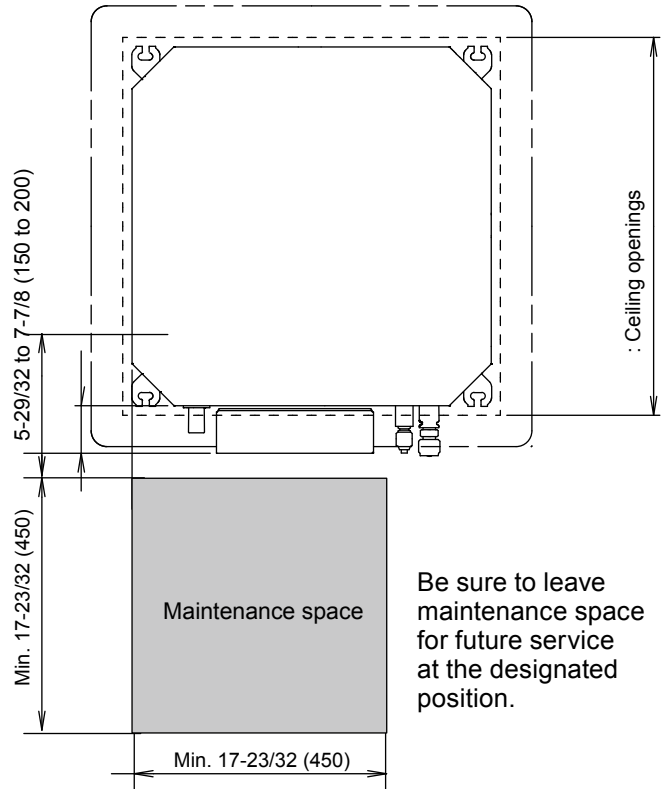


INDOOR UNIT
COMPACT CASSETTE
AUU9RLF
AUU12RLF
AUU18RLF
Unit : inch (mm)

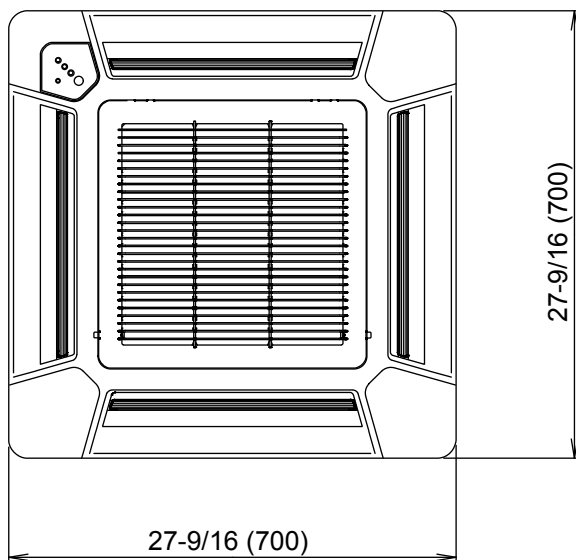
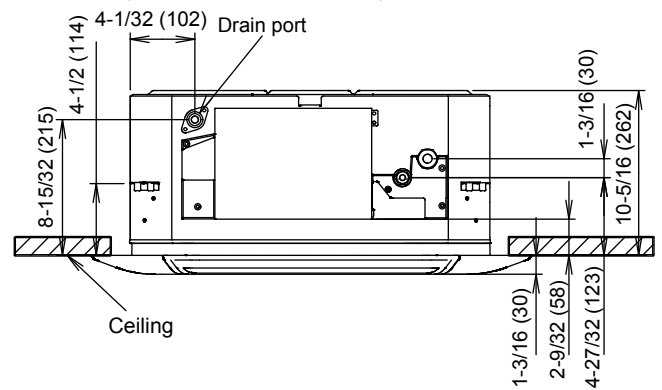
• Decoration panel mounting state



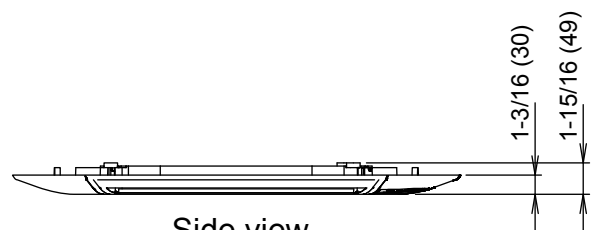
Top view



Side view

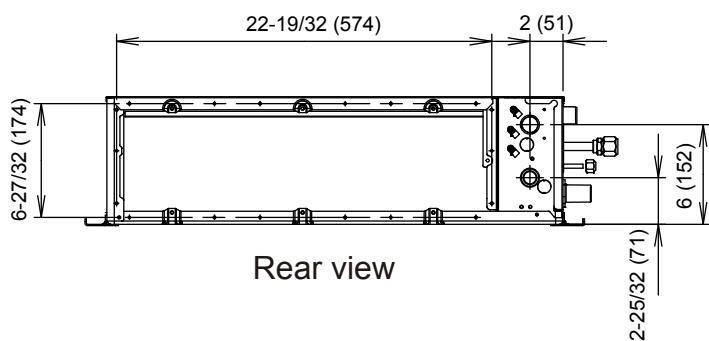


Bottom view

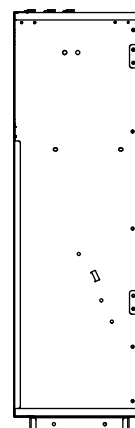


Side view

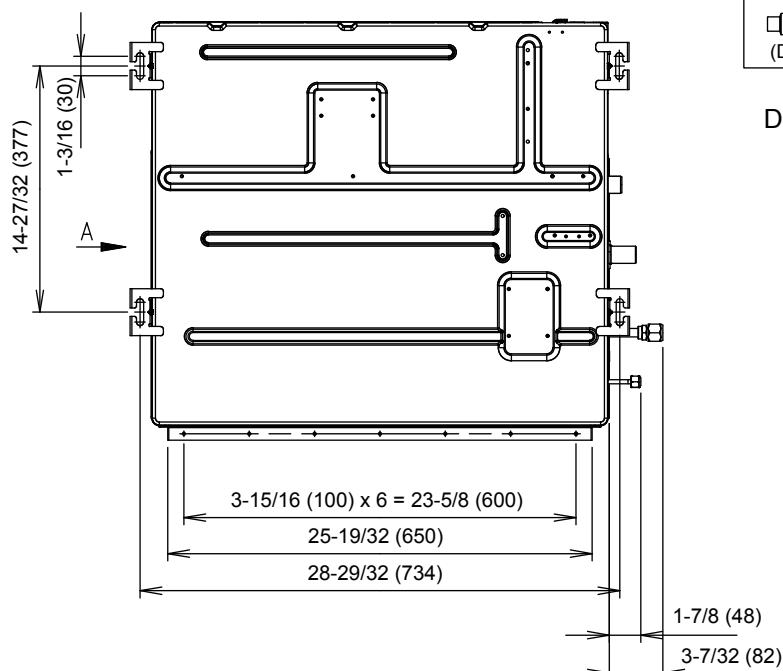
INDOOR UNIT
SLIM DUCT
ARU9RLF
ARU12RLF
(Serial number : T)
Unit : inch (mm)



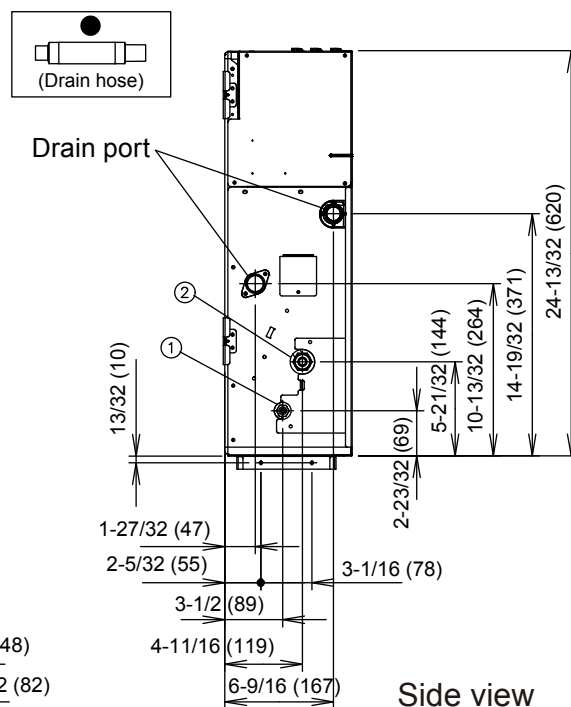
Rear view



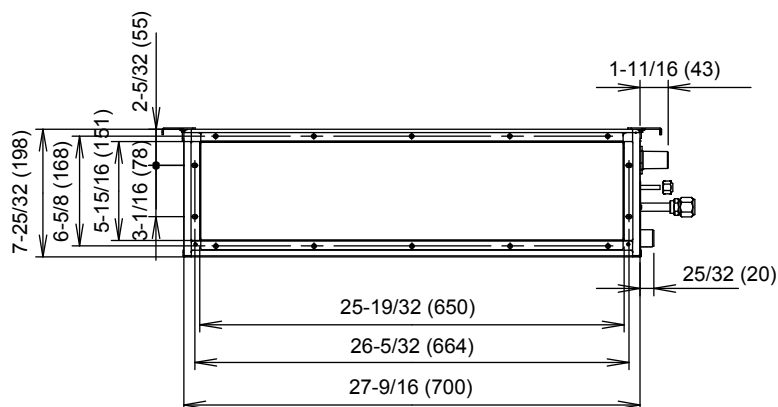
View A



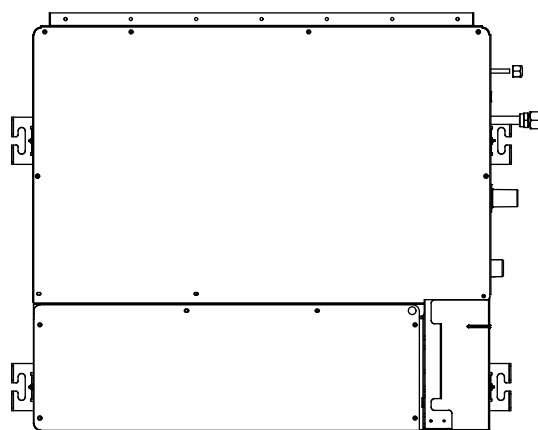
Top view



Side view

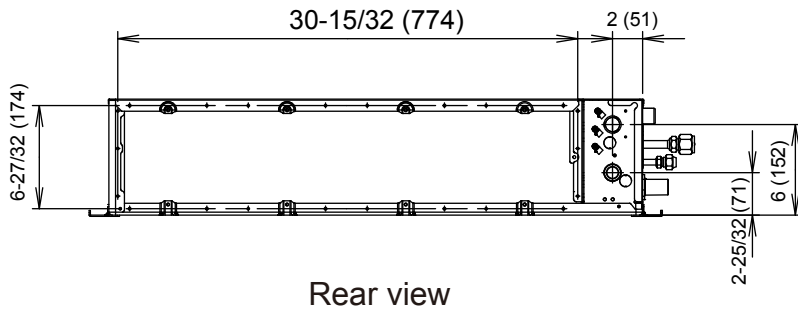


Front view

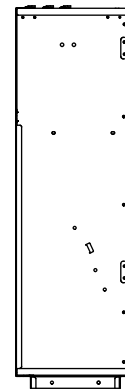


Bottom view

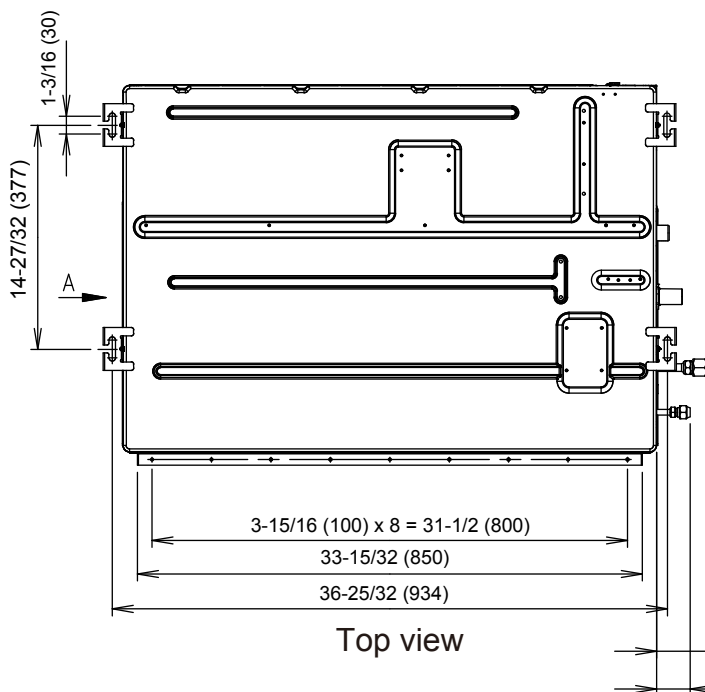
INDOOR UNIT
SLIM DUCT
ARU18RLF
(Serial number : T)
Unit : inch (mm)



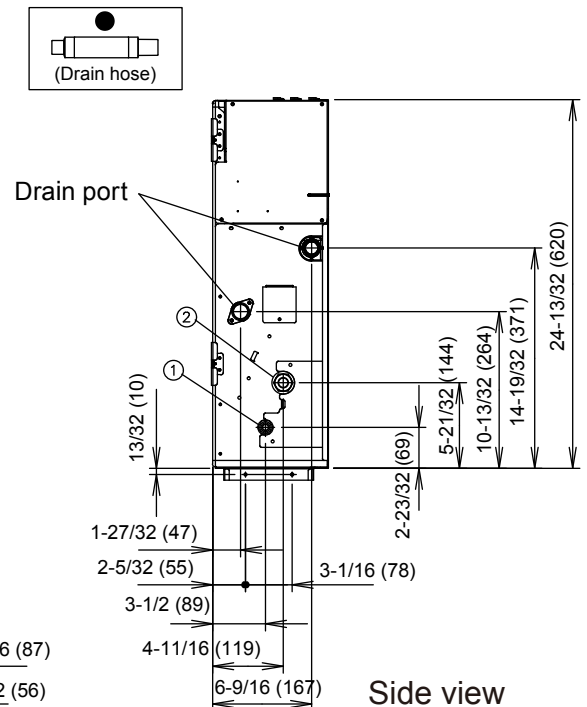
Rear view



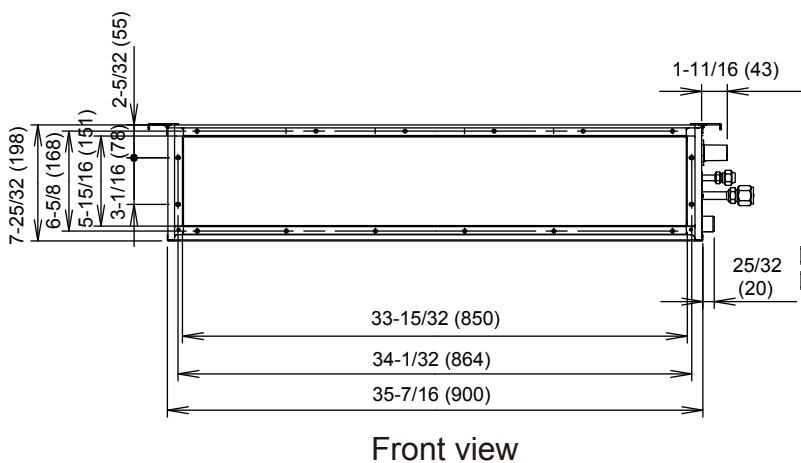
View A



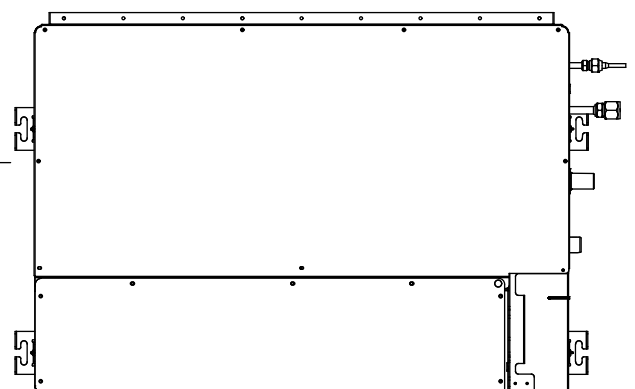
Top view



Side view

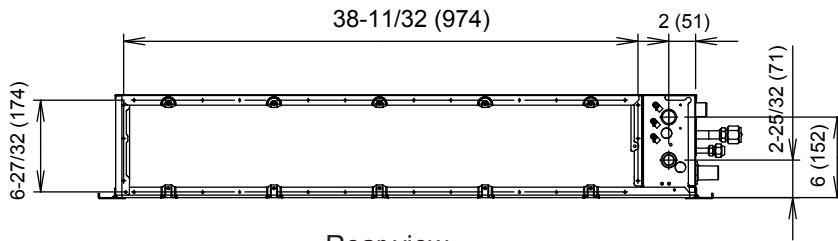


Front view

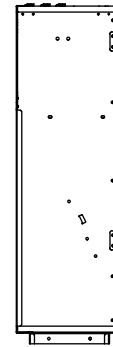


Bottom view

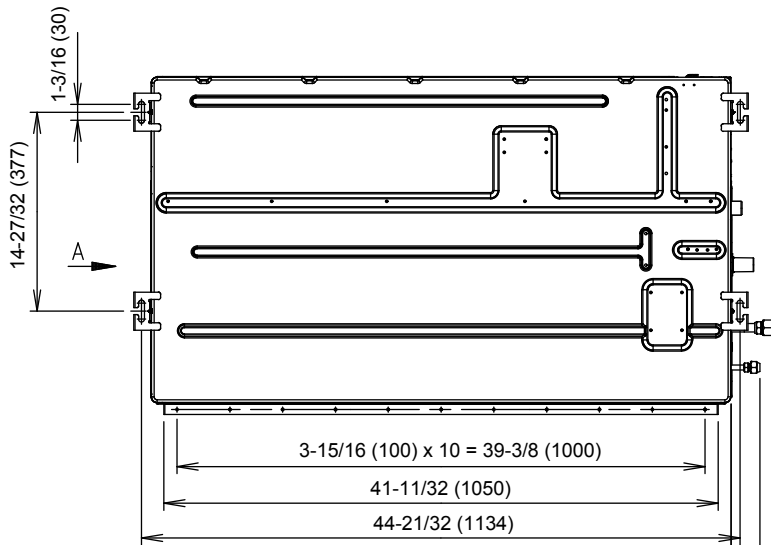
INDOOR UNIT
SLIM DUCT
ARU24RLF
(Serial number : T)
Unit : inch (mm)



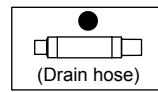
Rear view



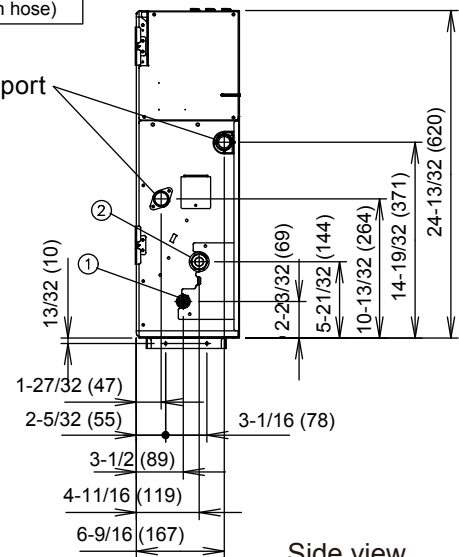
View A



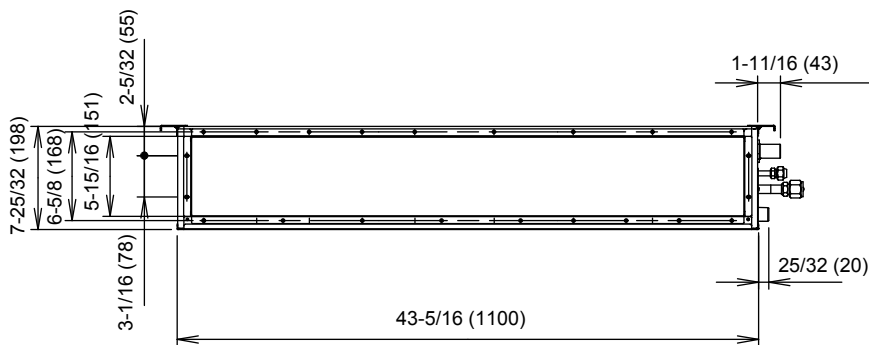
Top view



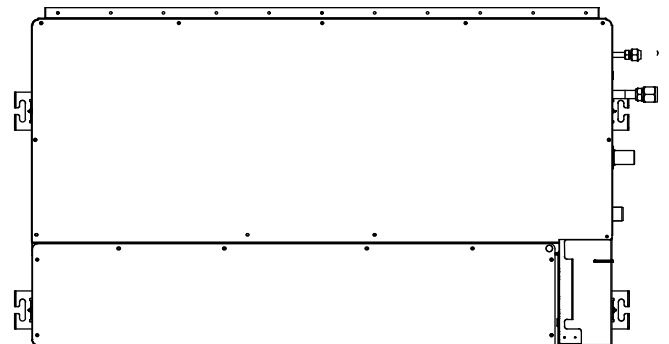
Drain port



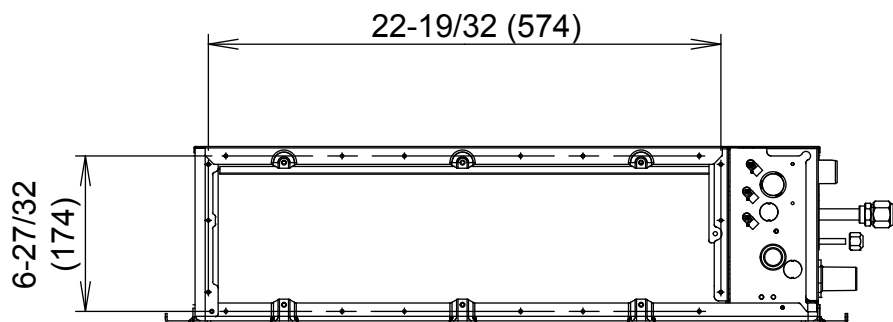
Side view



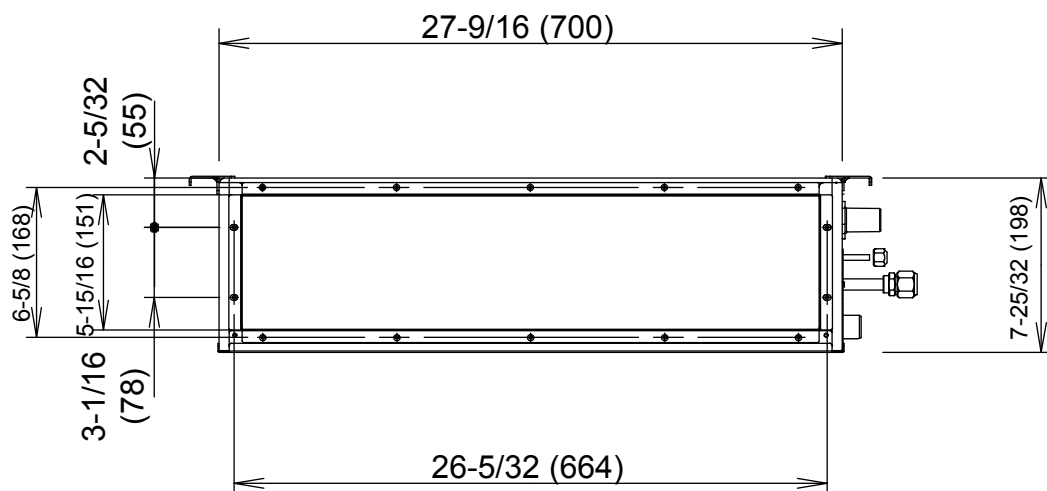
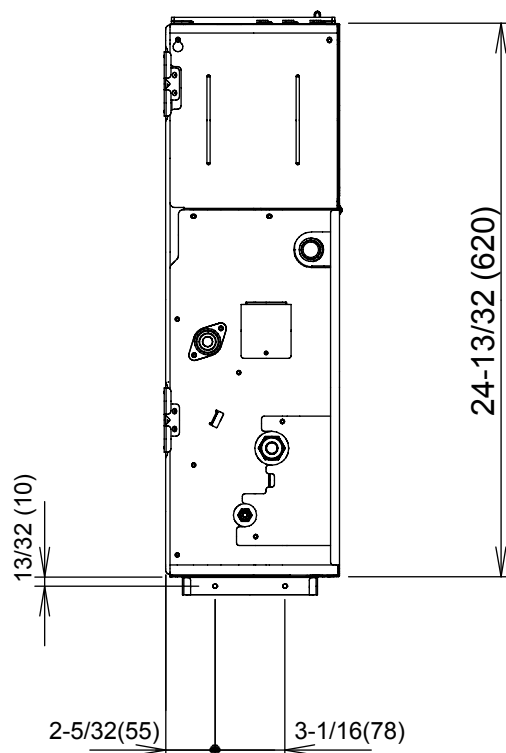
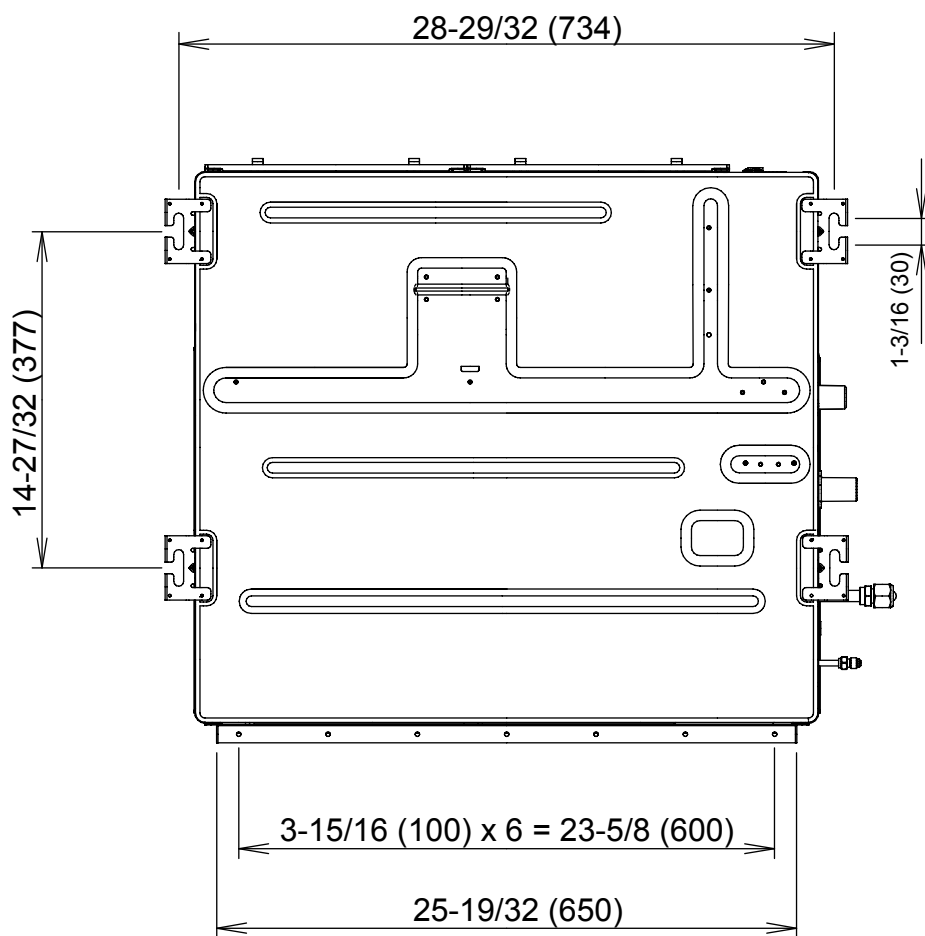
Front view

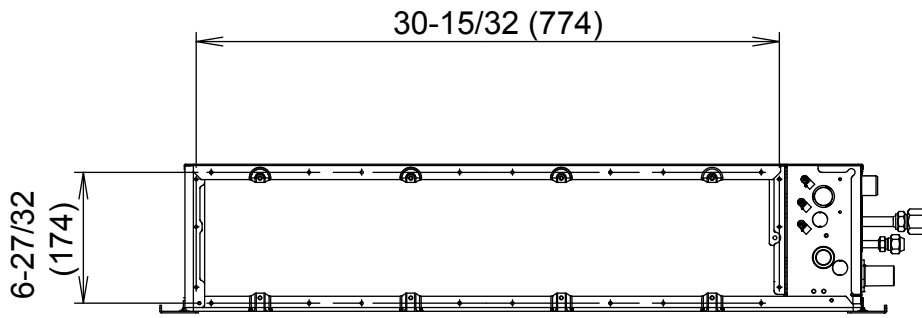


Bottom view

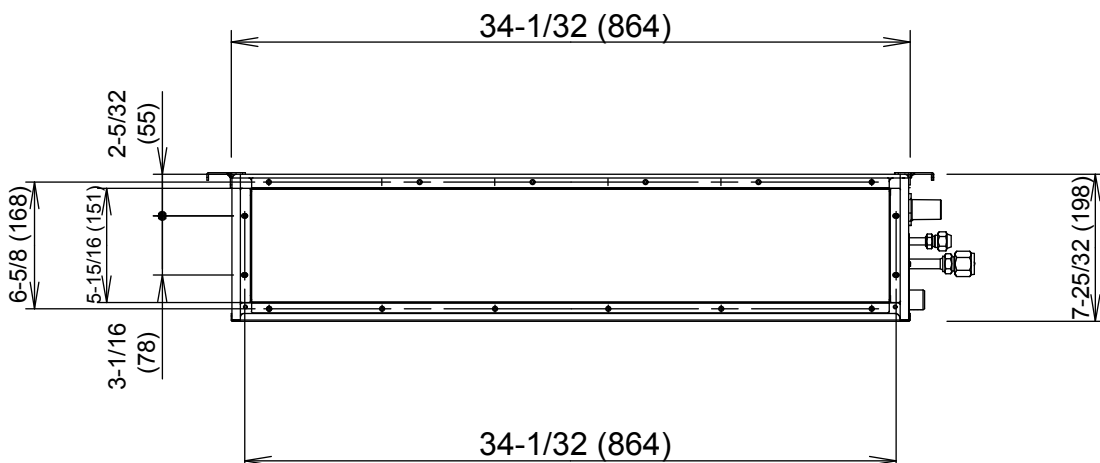
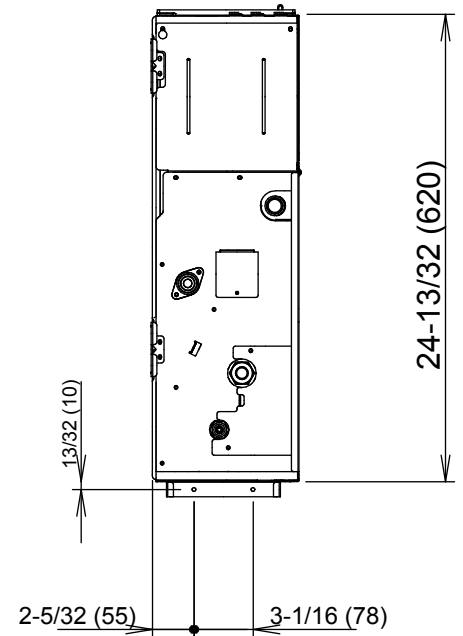
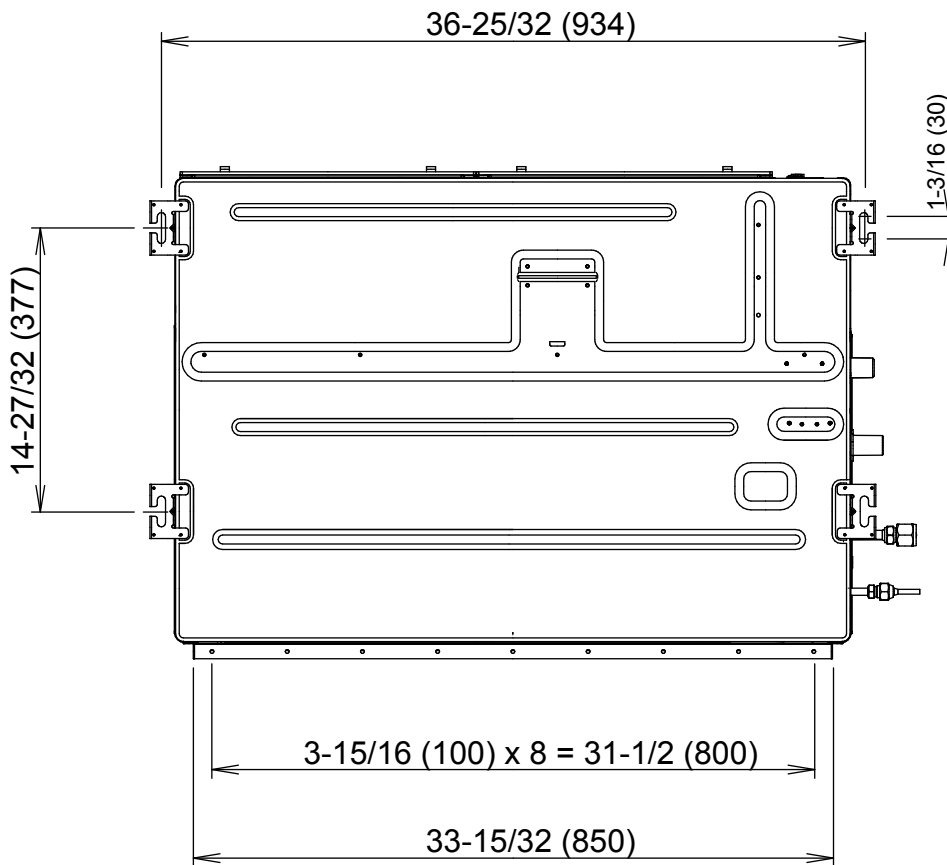


INDOOR UNIT
SLIM DUCT
ARU9RLF
ARU12RLF
(Serial number : R)
Unit : inch (mm)

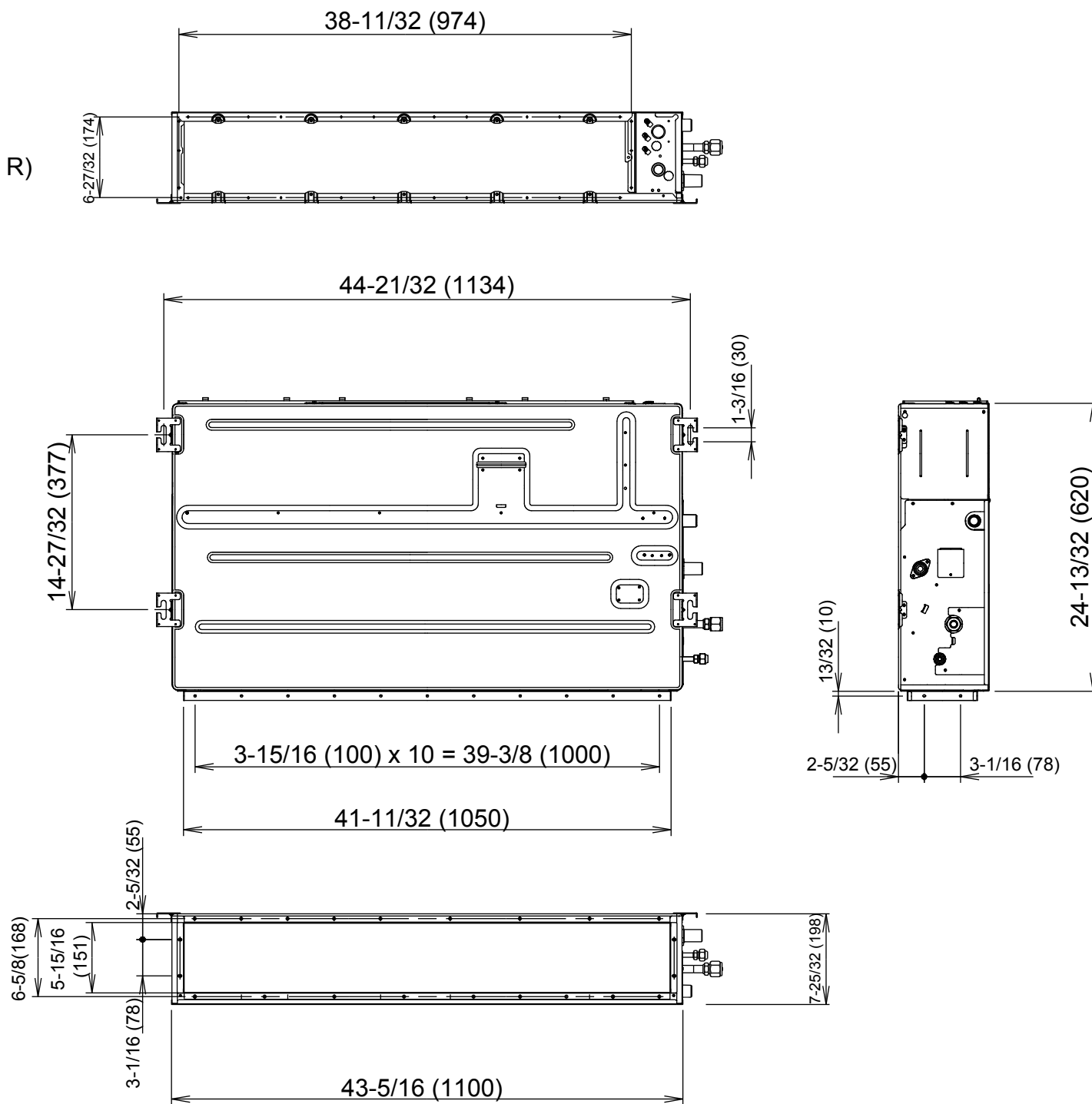




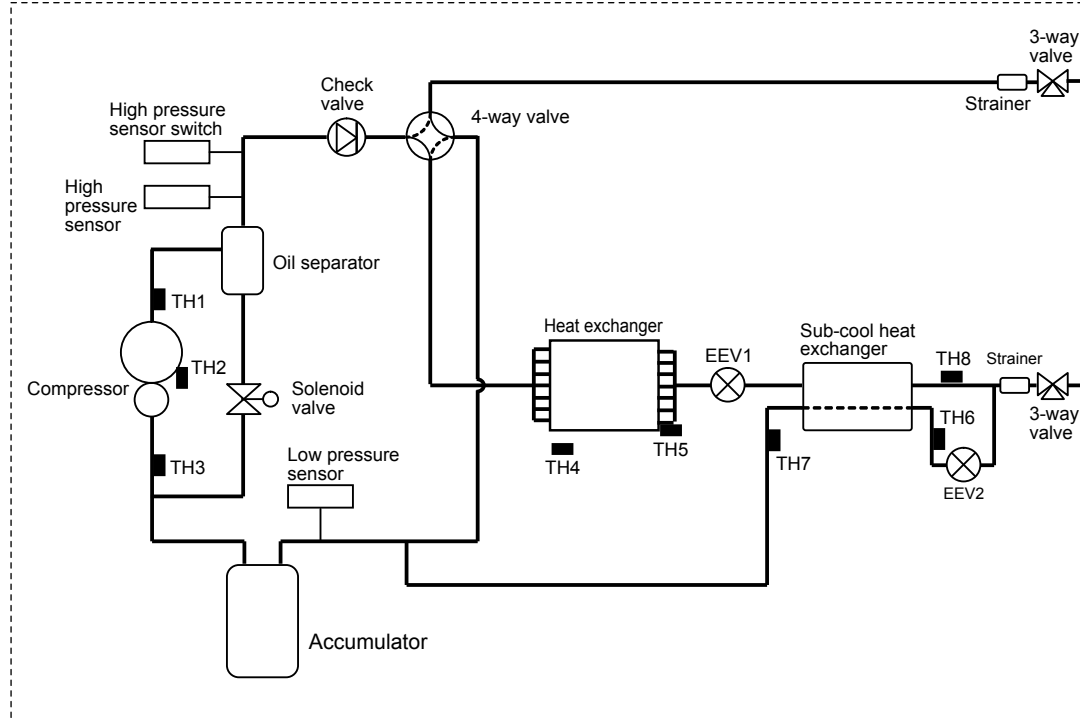
INDOOR UNIT
SLIM DUCT
ARU18RLF
(Serial number : R)
Unit : inch (mm)



INDOOR UNIT
SLIM DUCT
ARU24RLF
(Serial number : R)
Unit : mm



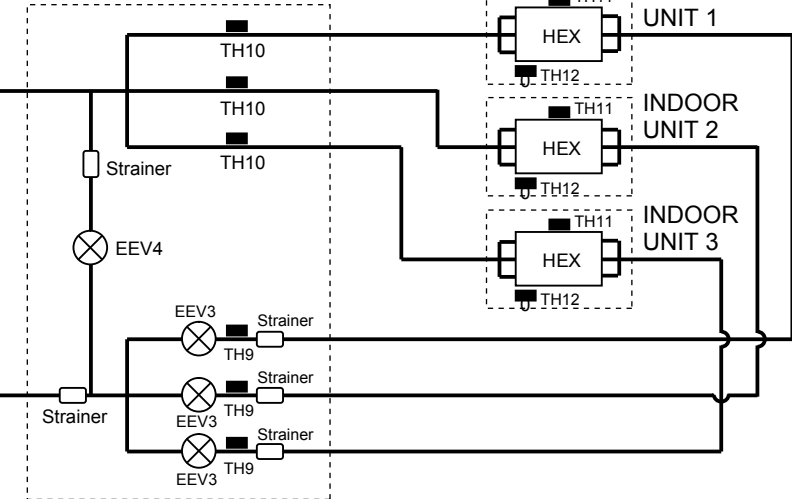
OUTDOOR UNIT



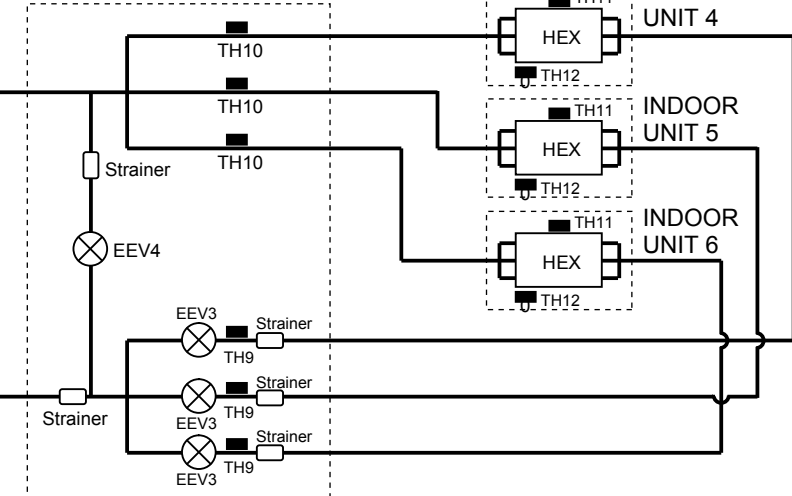
OUTDOOR UNIT

EEV	Electric expansion valve
TH 1	Discharge temperature thermistor
TH 2	Compressor temperature thermistor
TH 3	Suction temperature themistor
TH 4	Outdoor temperature themistor
TH 5	Heat exchanger (outlet) thermistor
TH 6	Sub-cool heat exchanger (inlet) thermistor
TH 7	Sub-cool heat exchanger (outlet) thermistor
TH 8	Liquid temperature thermistor

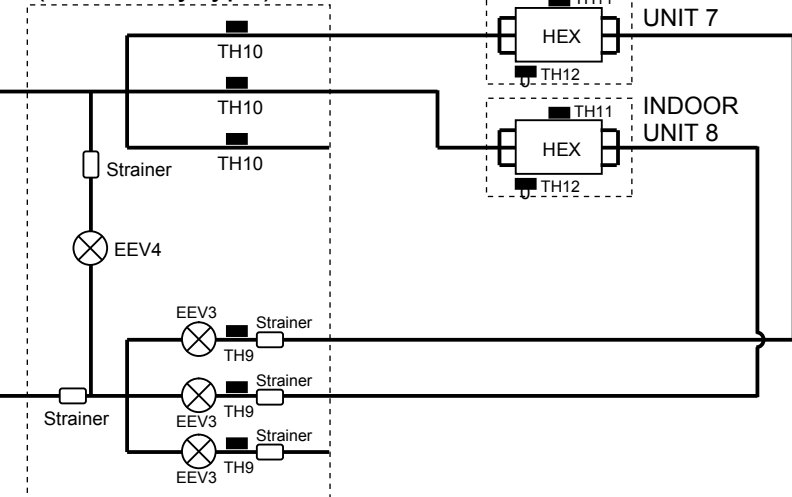
BRANCH BOX 1 (primary type)



BRANCH BOX 2 (secondary type)



BRANCH BOX 3 (secondary type)



BRANCH BOX

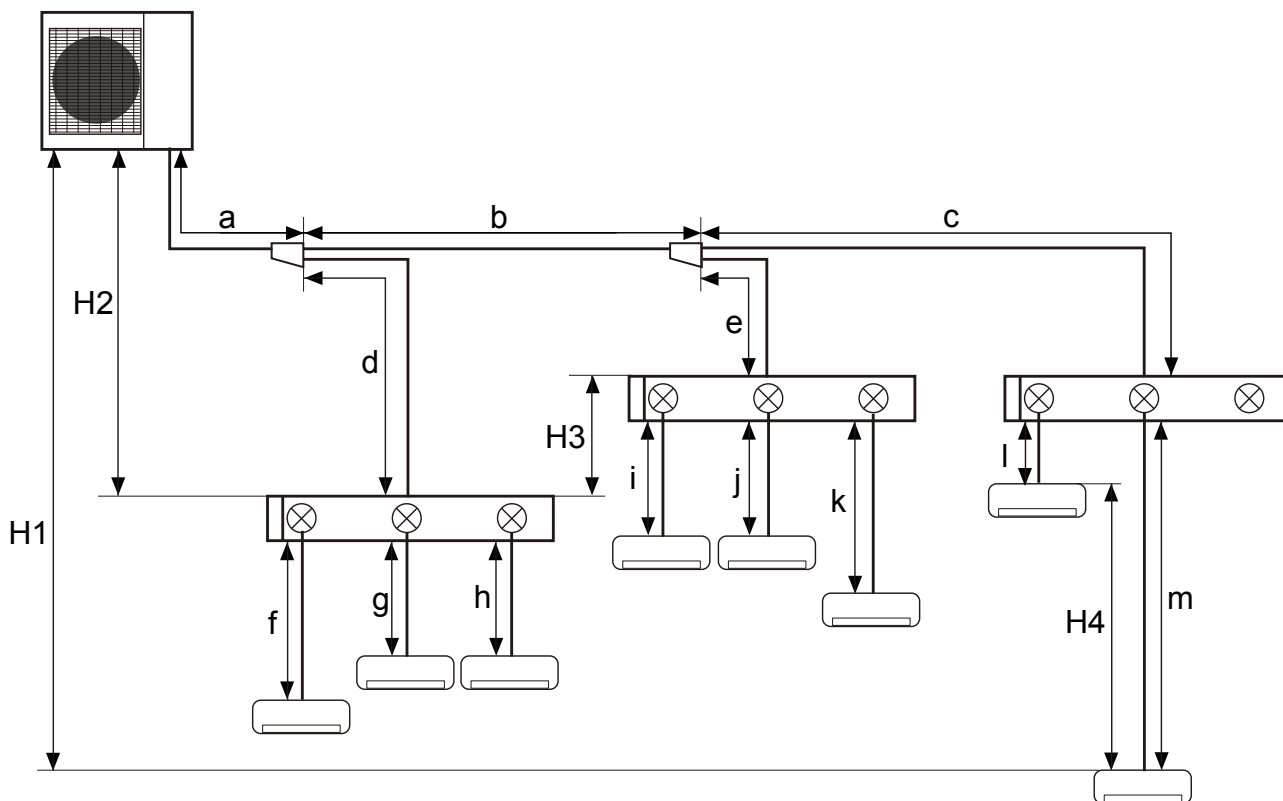
EEV	Electric expansion valve
TH 9	Branch box liquid temperature thermistor
TH 10	Branch box gas temperature thermistor

INDOOR UNIT

HEX	Heat exchanger
TH 11	Heat exchanger (middle) thermistor
TH 12	Room temperature thermistor

REFRIGERANT SYSTEM DIAGRAM

PIPING LIMITATION



Pipe length

Total pipe length		Less than 377 ft (115 m)	Total
Between outdoor unit and the farthest indoor unit		Less than 230 ft (70 m)	a + b + c + m
Between outdoor unit and branch boxes		Less than 180 ft (55 m)	a + b + c + d + e
Between branch box and indoor unit	Total	Less than 197 ft (60 m)	f + g + h + i + j + k + l + m
	Each unit	10 to 49 ft (3 to 15 m)	f, g, h, i, j, k, l, m
Between outdoor unit and the first separation tube		More than 16 ft (5 m)	a
Between outdoor unit and branch box (When there is no separation tube)		More than 16 ft (5 m)	a + d

Height difference

Between outdoor unit and indoor unit	Less than 98 fr (30 m)	H1
Between outdoor unit and branch box	Less than 98 ft (30 m)	H2
Between branch boxes	Less than 49 ft (15 m)	H3
Between indoor units	Less than 49 ft (15 m)	H4

ADDITIONAL CHARGE

Liquid pipe diameter	Additional charge
Ø 1/4 in. (6.35 mm)	0.014 lbs/ft (21 g/m)
Ø 3/8 in. (9.52 mm)	0.039 lbs/ft (58 g/m)

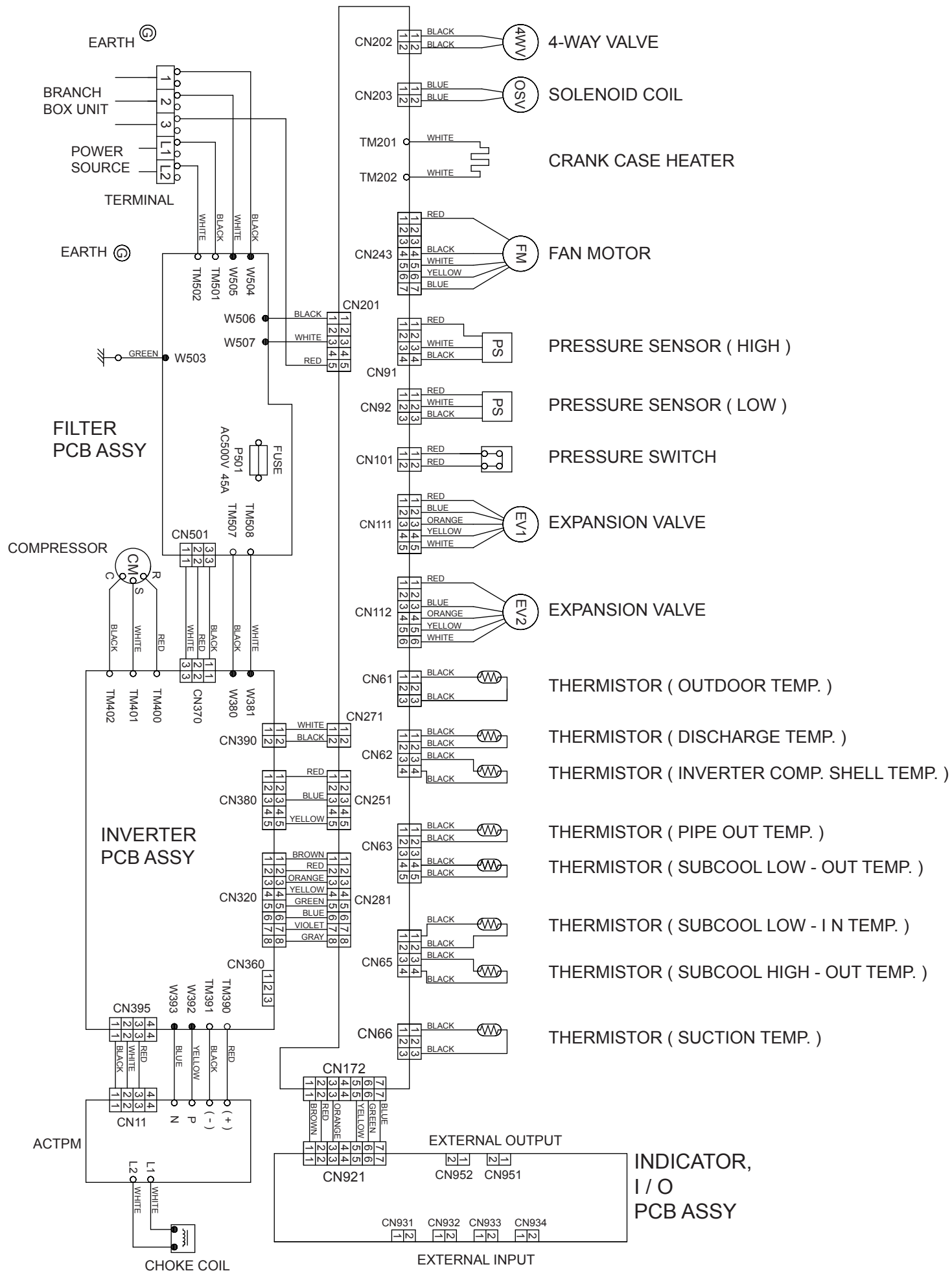
Additional refrigerant depends on the liquid pipe diameter.

PIPE DIAMETER

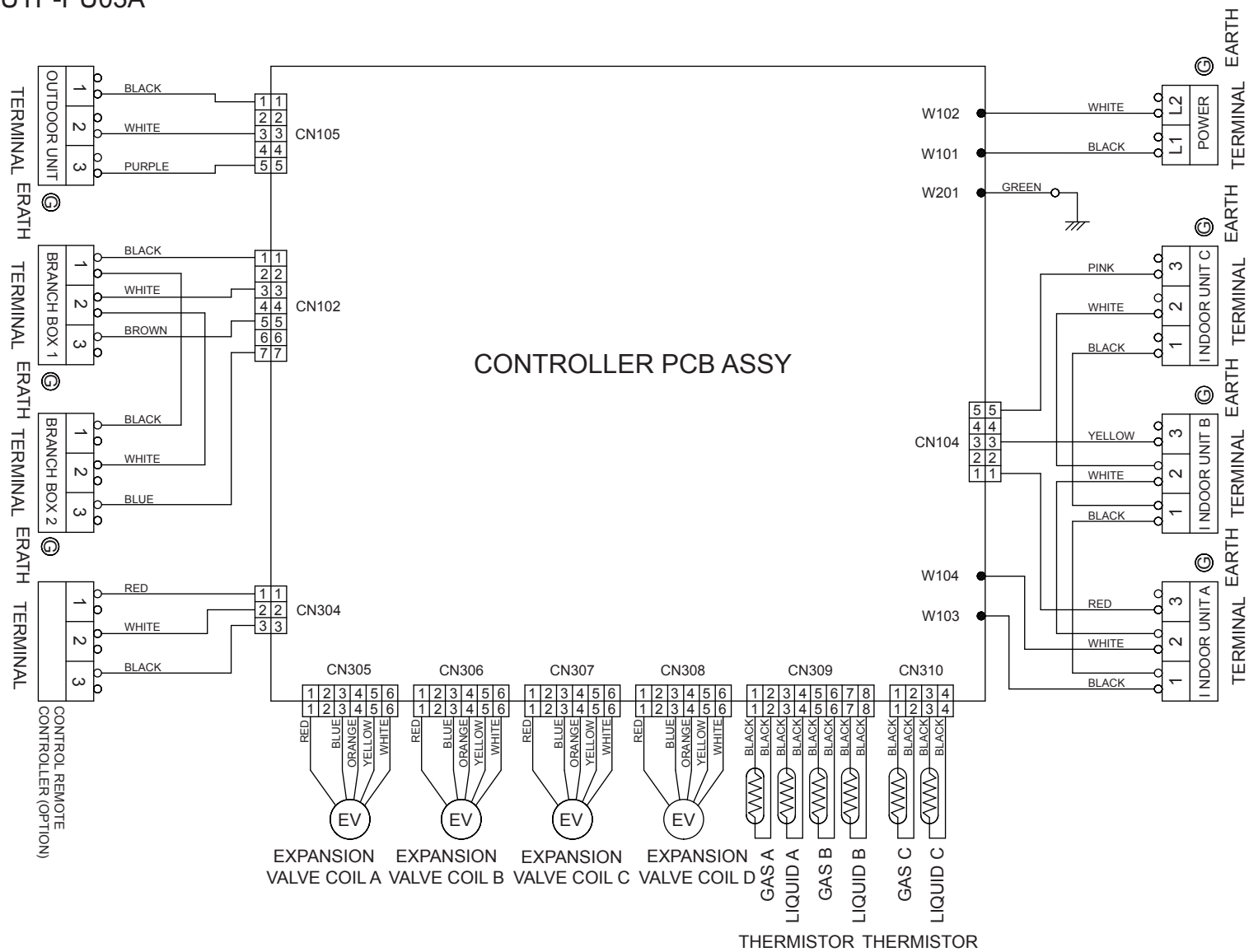
	AOU48RLXFZ	Branch box, main (x1)	Branch box, branch (x3)	ASU7, 9, 12RLF AUU9, 12RLF ARU9, 12RLF	ASU18RLF AUU18RLF ARU18RLF	ASU24RLF ARU24RLF
Liquid pipe	3/8 in. (9.52 mm)		1/4 in. (6.35 mm)			
Gas pipe	5/8 in. (15.88 mm)		1/2 in. (12.7 mm)	3/8 in. (9.52 mm)	1/2 in. (12.7 mm)	5/8 in. (15.88 mm)

OUTDOOR UNIT
AOU48RLXZF

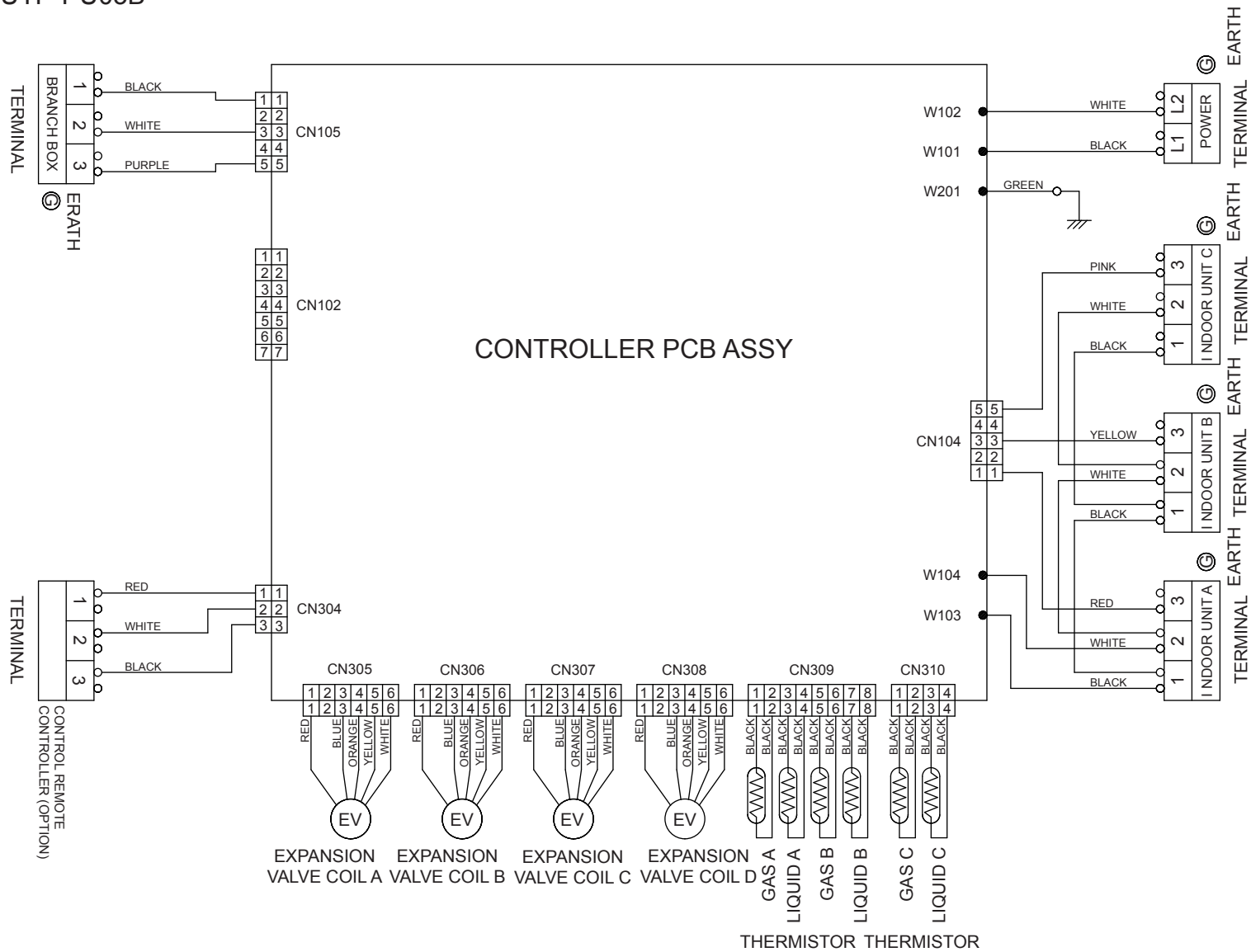
CONTROLLER PCB
ASSY (MAIN PCB)



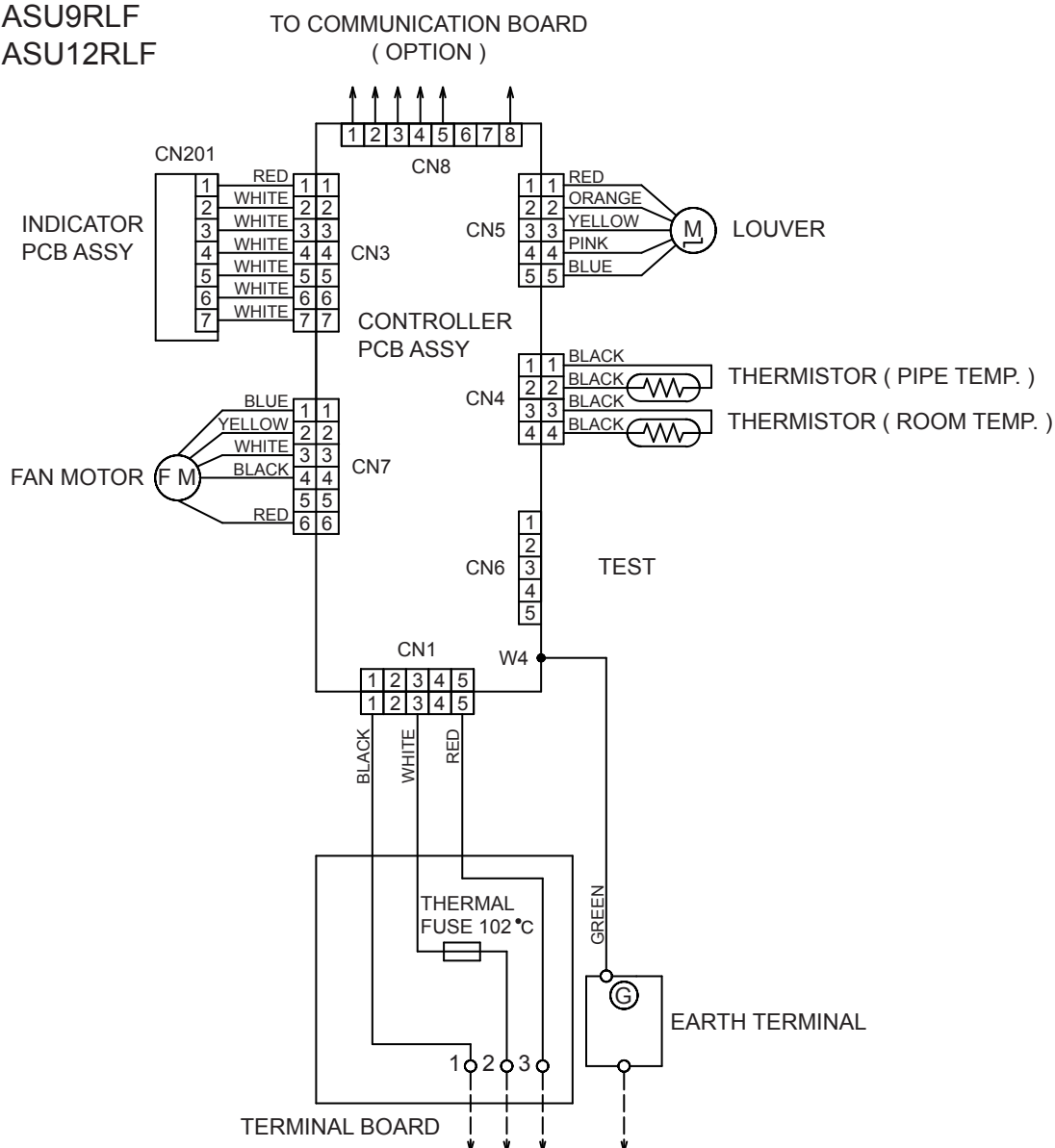
BRANCH BOX
UTP-PU03A



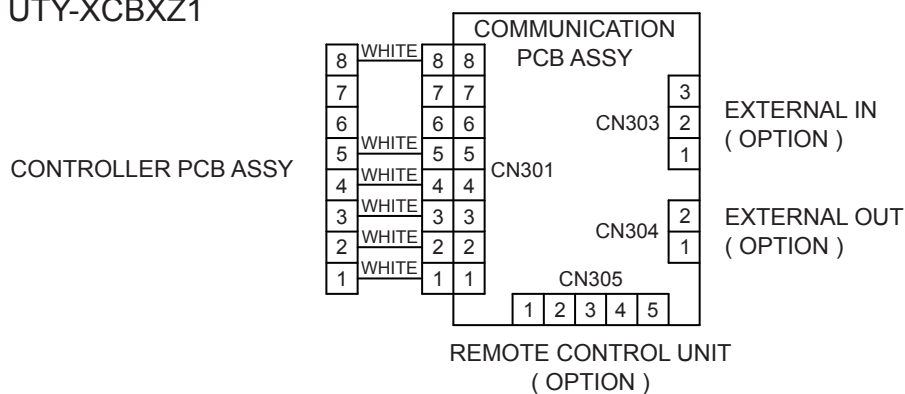
UTP-PU03B



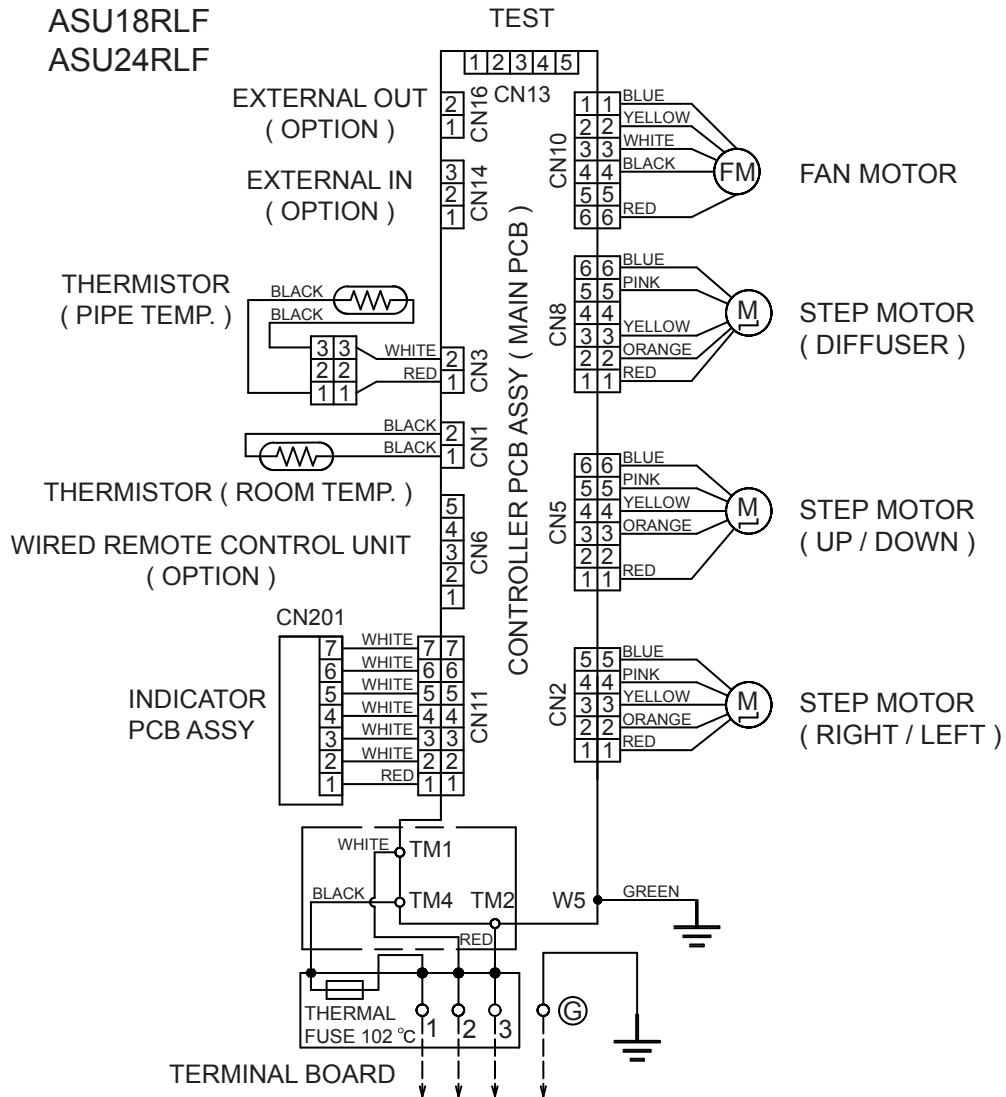
INDOOR UNIT
 COMPACT WALL MOUNTED
 ASU7RLF
 ASU9RLF
 ASU12RLF



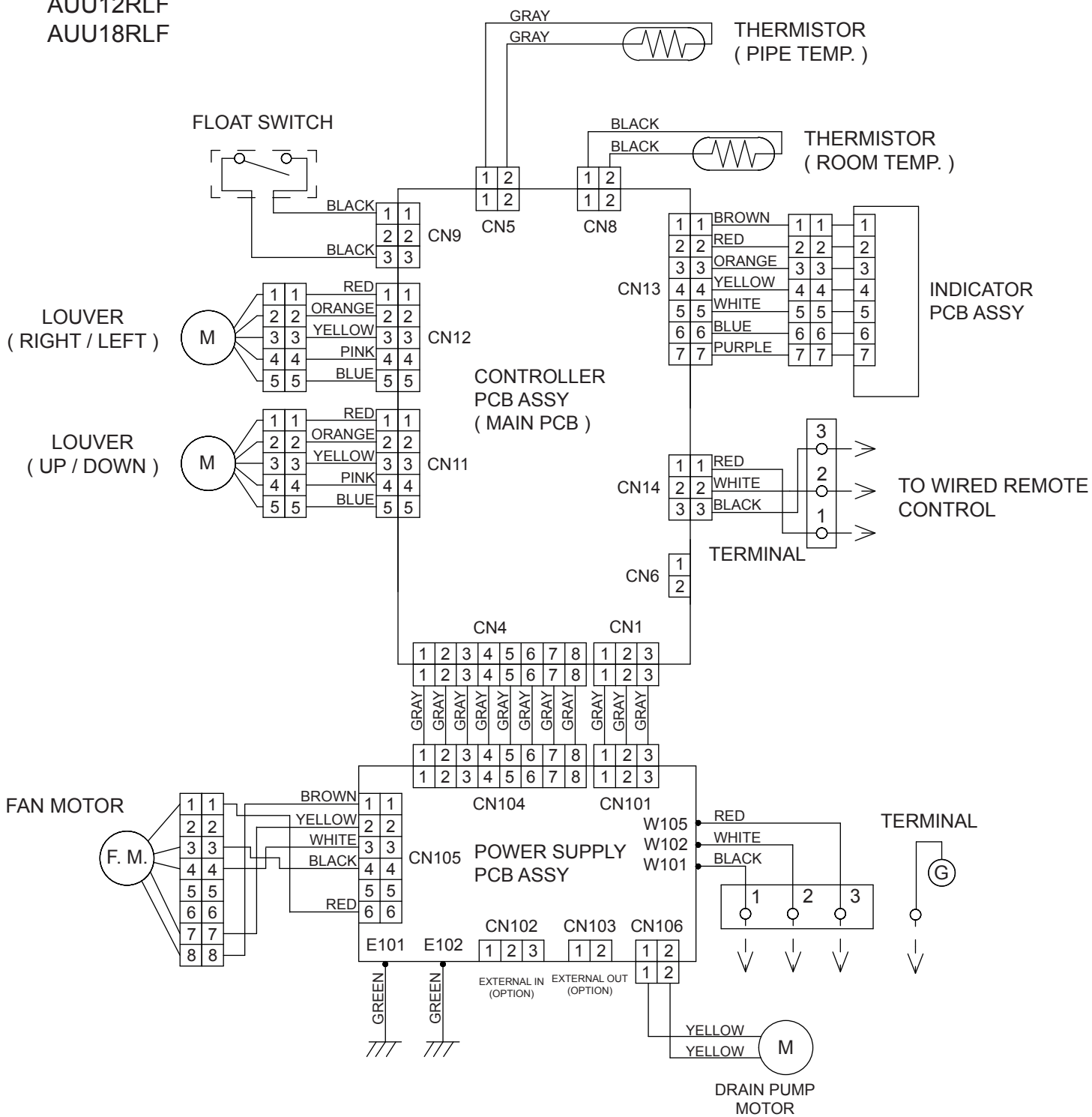
COMMUNICATION KIT
 UTY-XCBXZ1

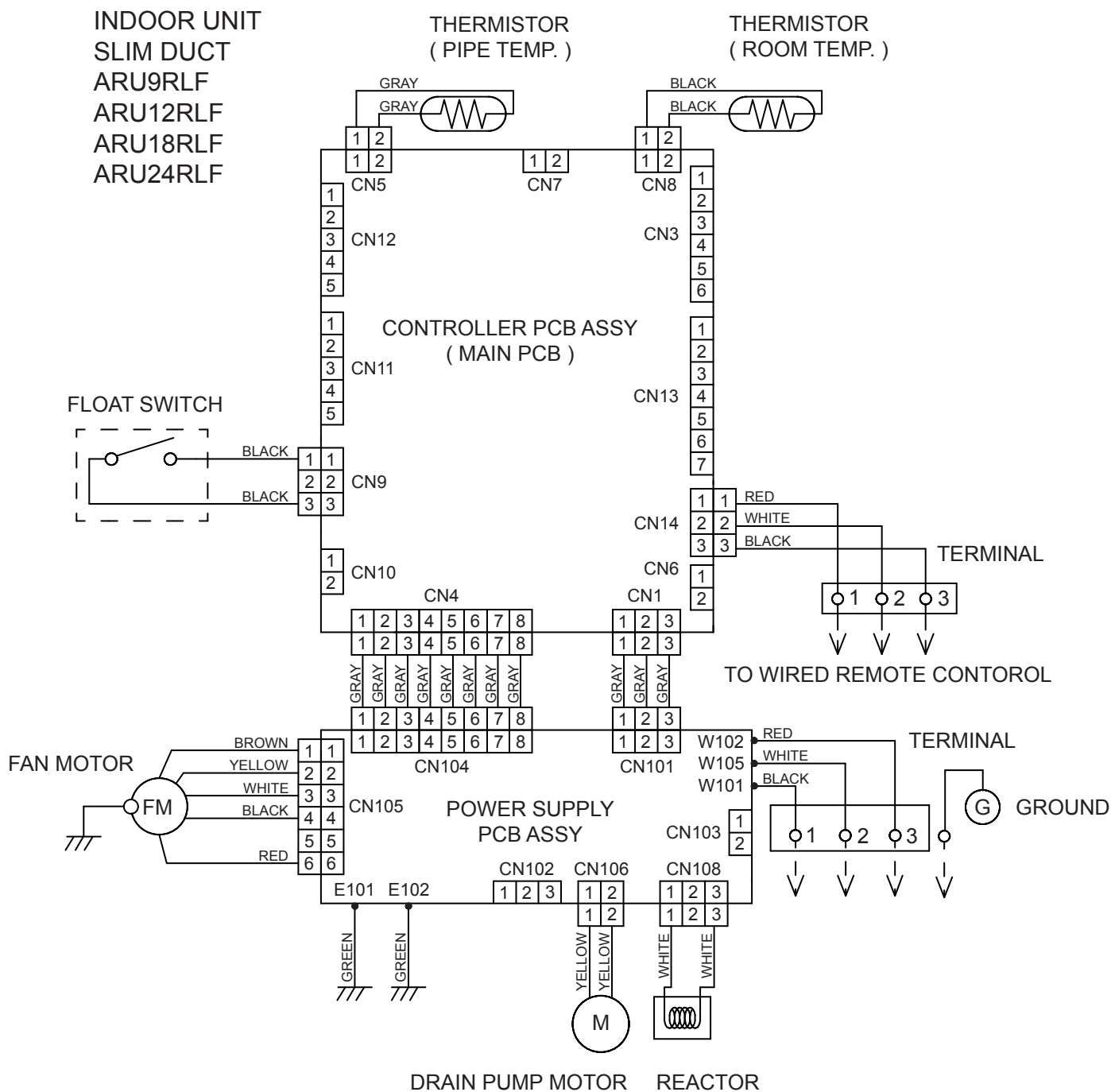


INDOOR UNIT
WALL MOUNTED
ASU18RLF
ASU24RLF



INDOOR UNIT
COMPACT CASSETTE
AUU9RLF
AUU12RLF
AUU18RLF

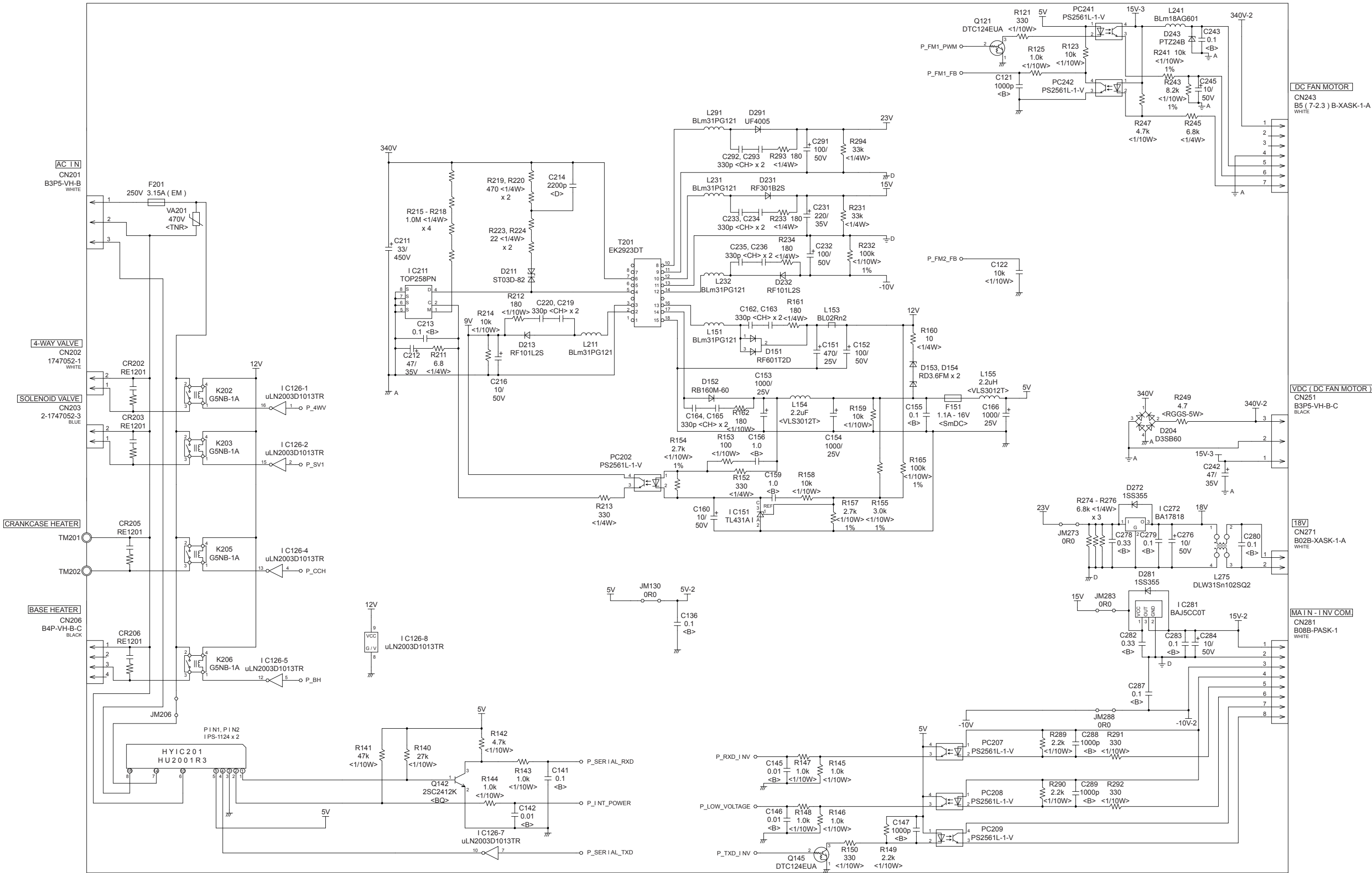




INVERTER ASSEMBLY
EZ-009DHUE

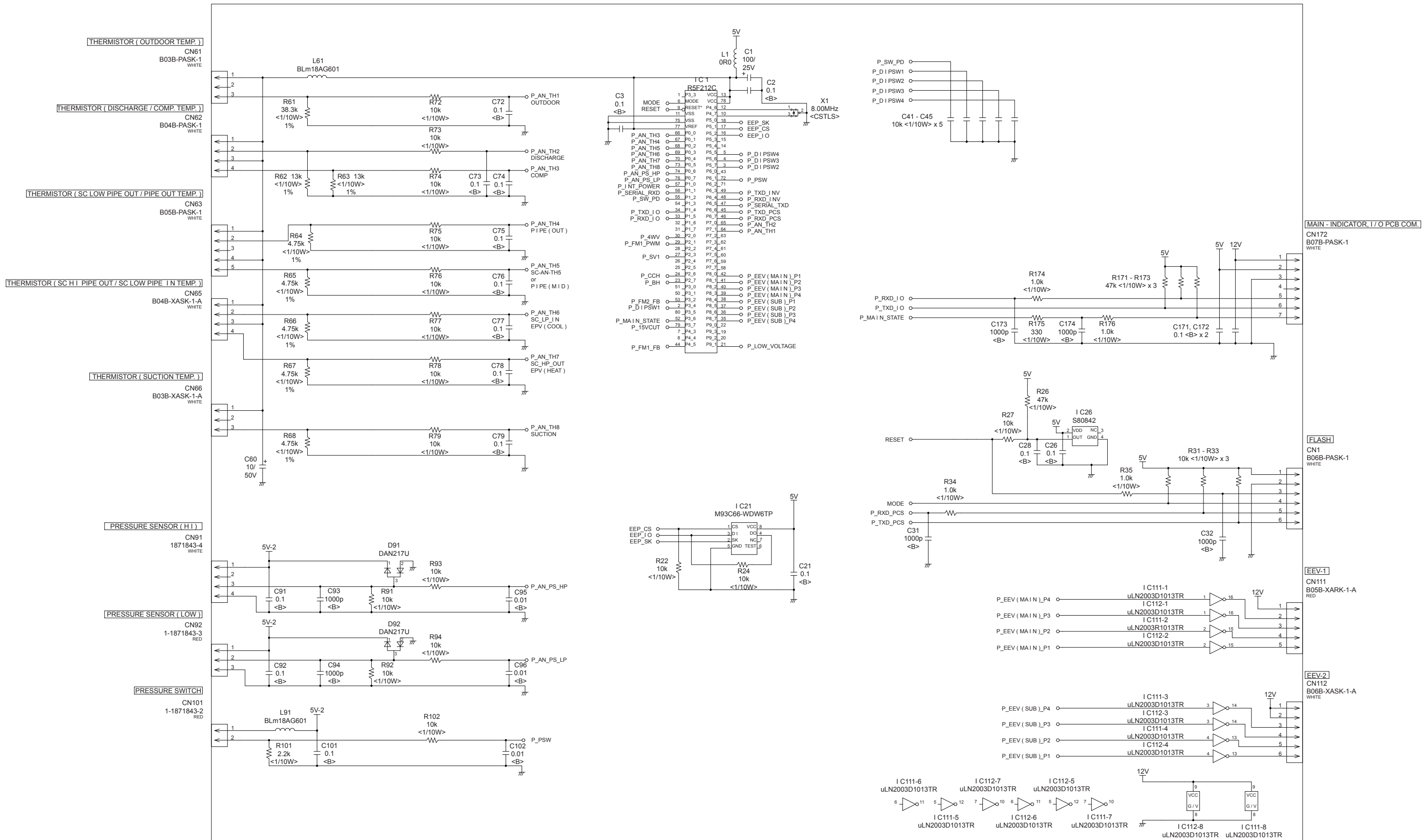


OUTDOOR UNIT
CONTROLLER PCB ASSEMBLY (MAIN PCB) : PRIMARY
K09CM-0900HUE-C1

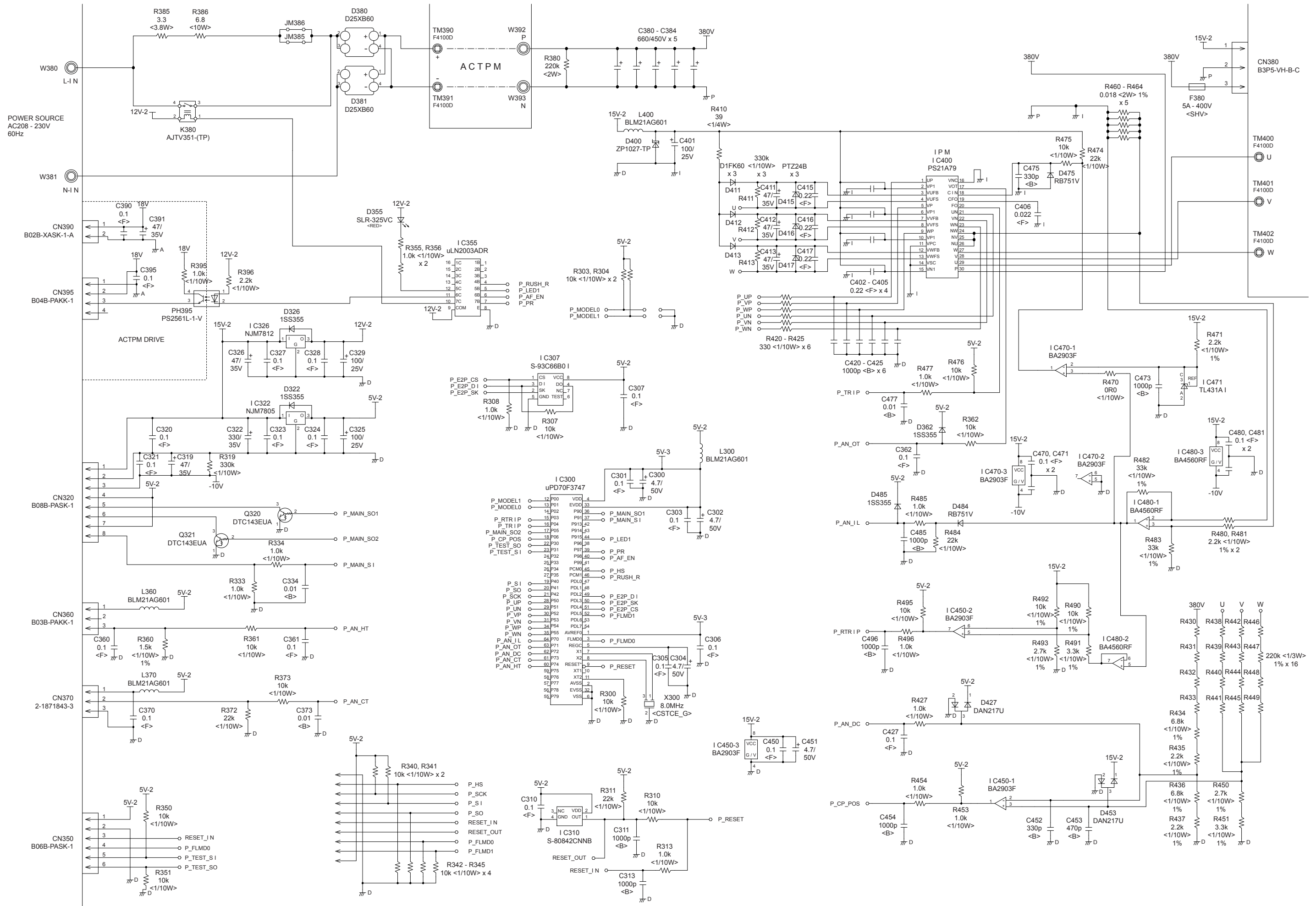


OUTDOOR UNIT

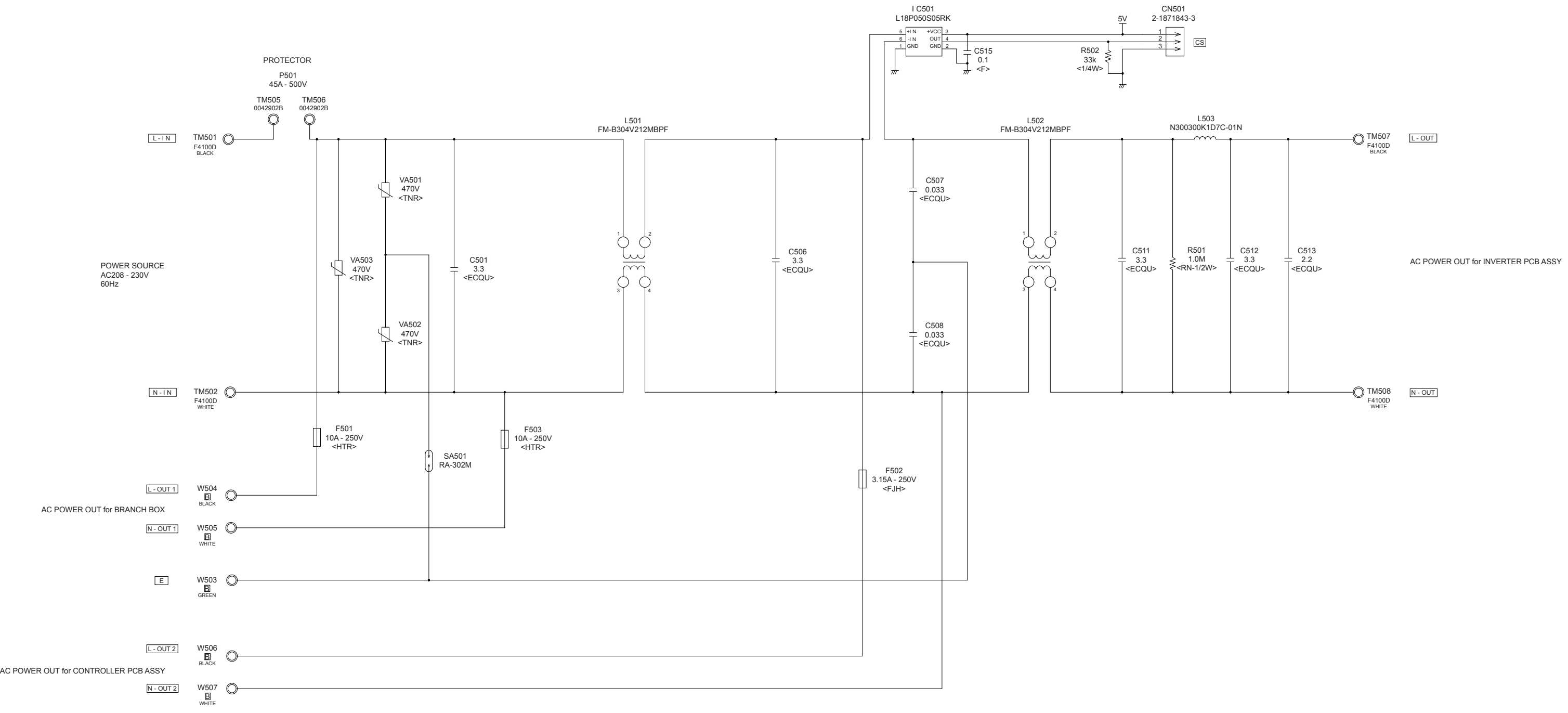
CONTROLLER PCB ASSEMBLY (MAIN PCB) : SECONDARY
K09CM-0900HUE-C1



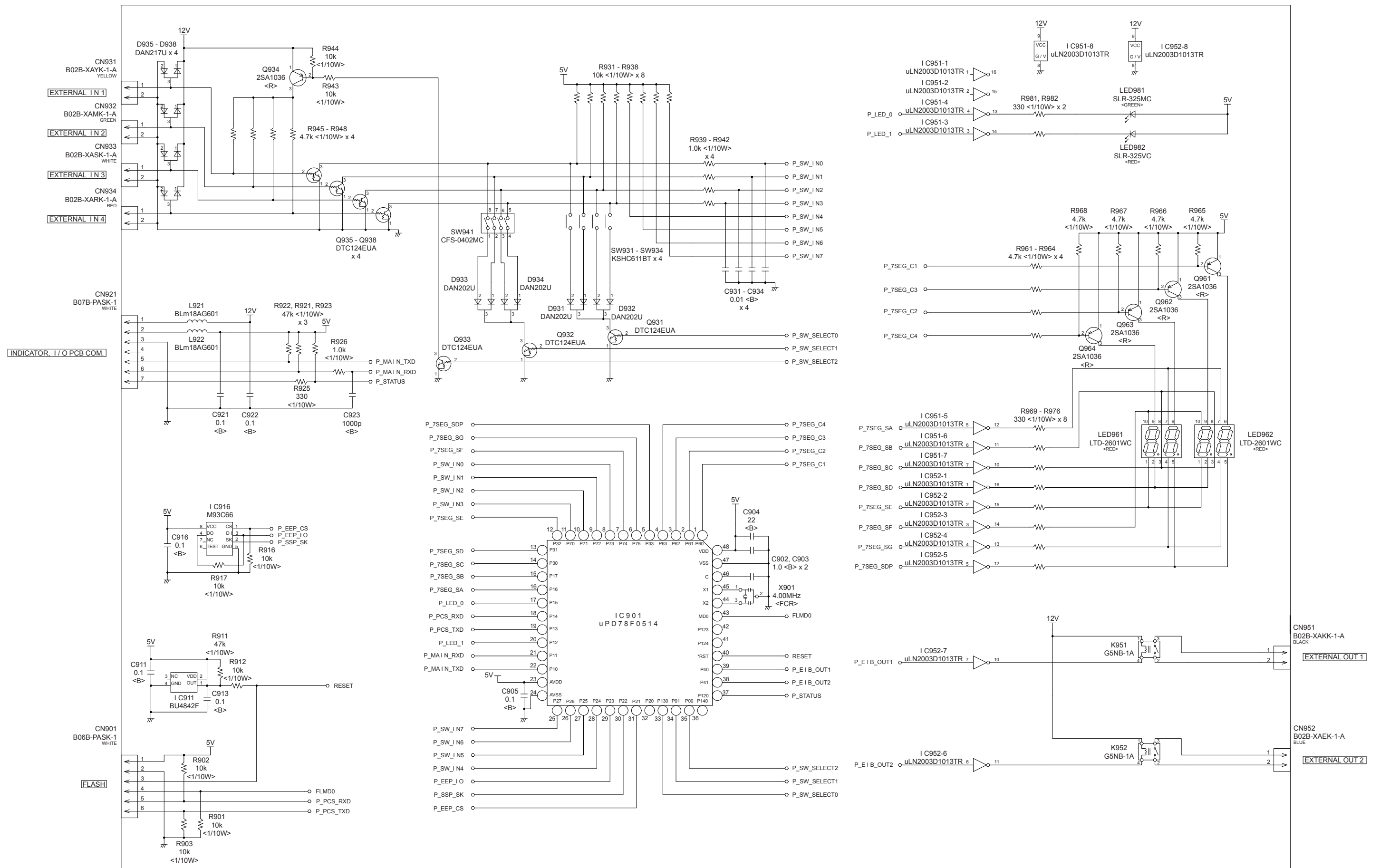
OUTDOOR UNIT
INVERTER PCB ASSEMBLY
K09CQ-0900HUE-TR1



OUTDOOR UNIT
FILTER PCB ASSEMBLY
K09CR-0900HUE-FL0

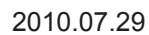


OUTDOOR UNIT
INDICATOR, I / O PCB ASSEMBLY
K09BI-0900HUE-C1



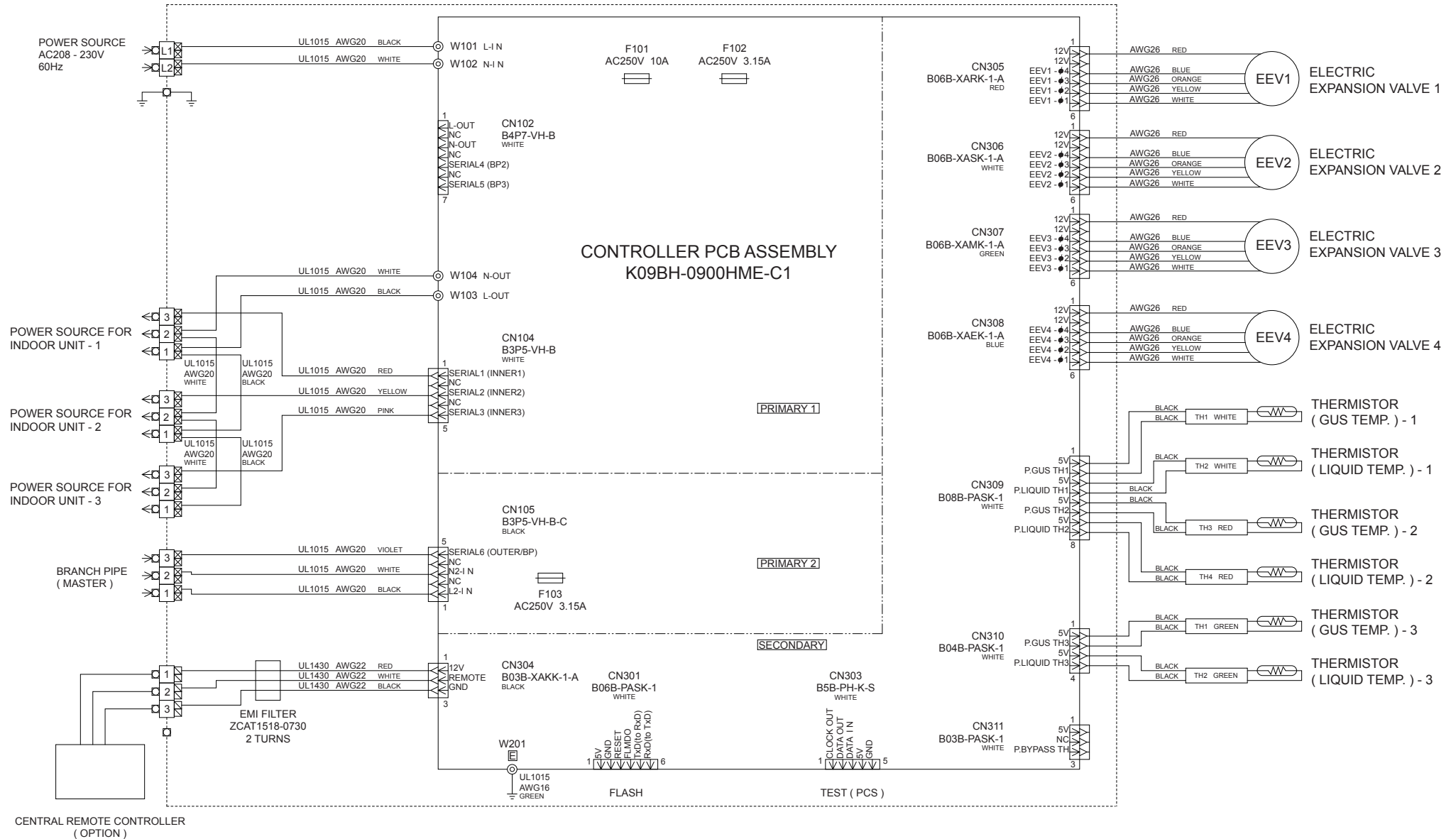
UTP-PU03A

CONTROLLER PCB ASSEMBLY
K09BH-0900HME-C1

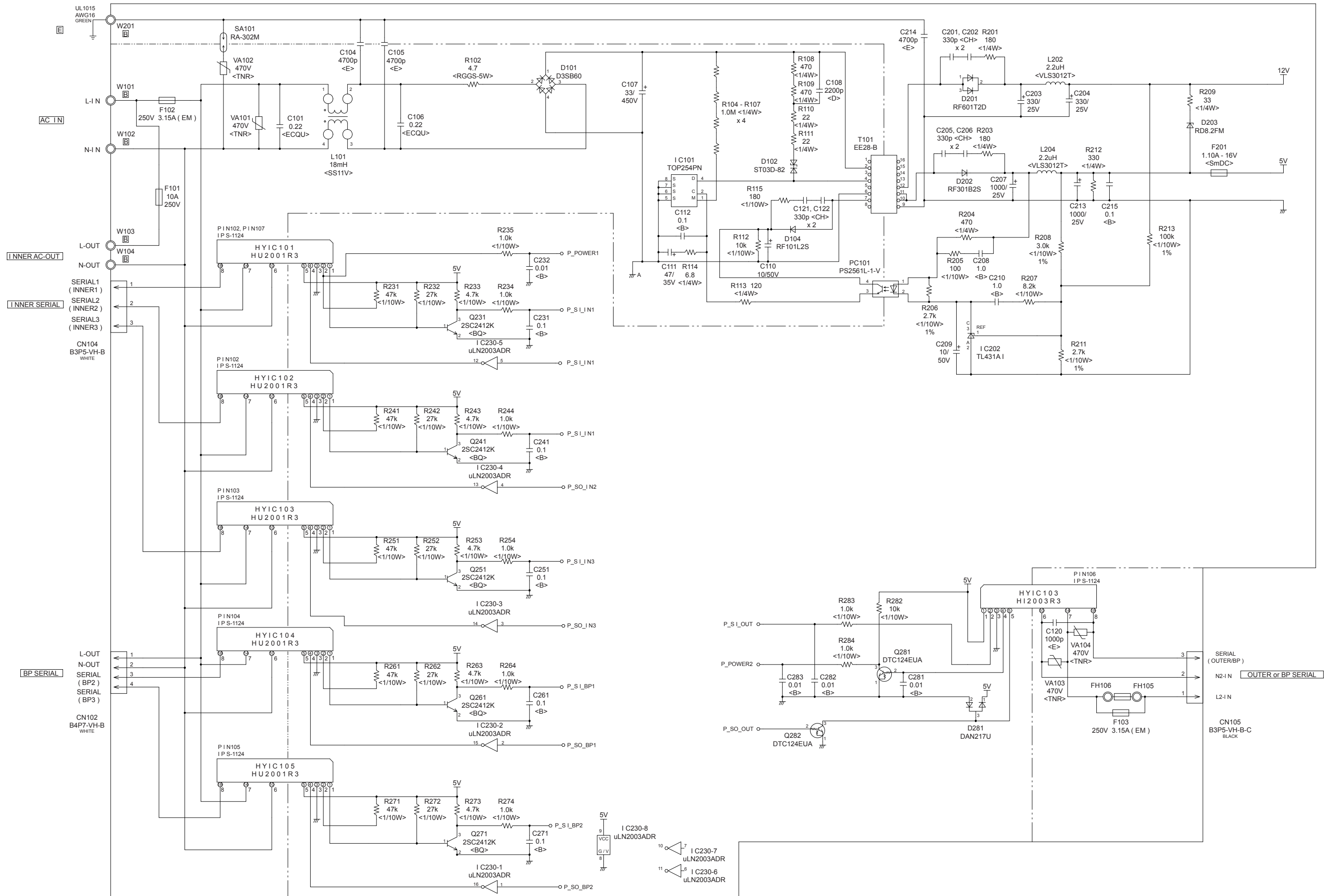


BRANCH BOX UTP-PU03B

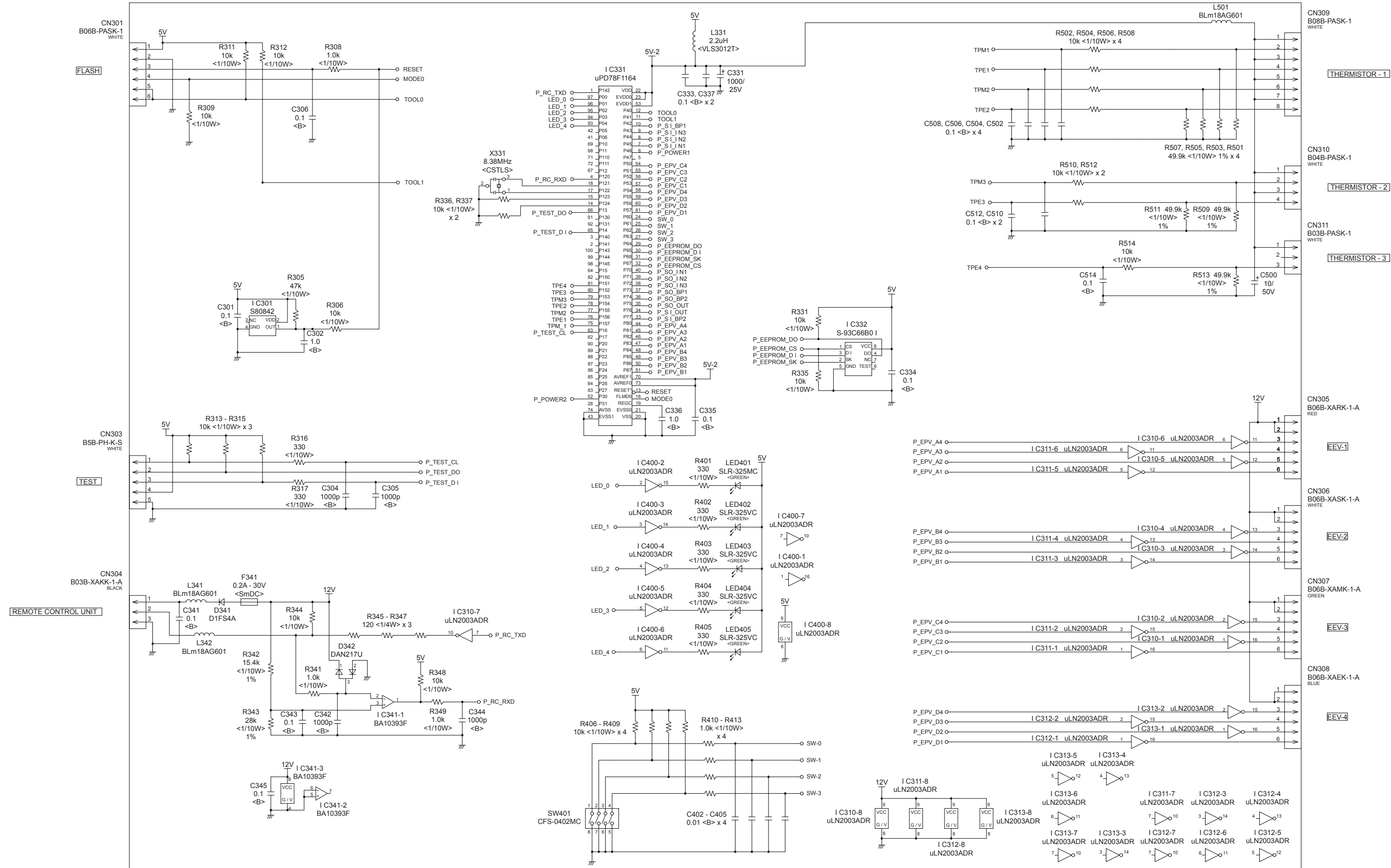
CONTROL UNIT EZ-0100HME



BRANCH BOX
CONTROLLER PCB ASSEMBLY - 1
K09BH-0900HME-C1

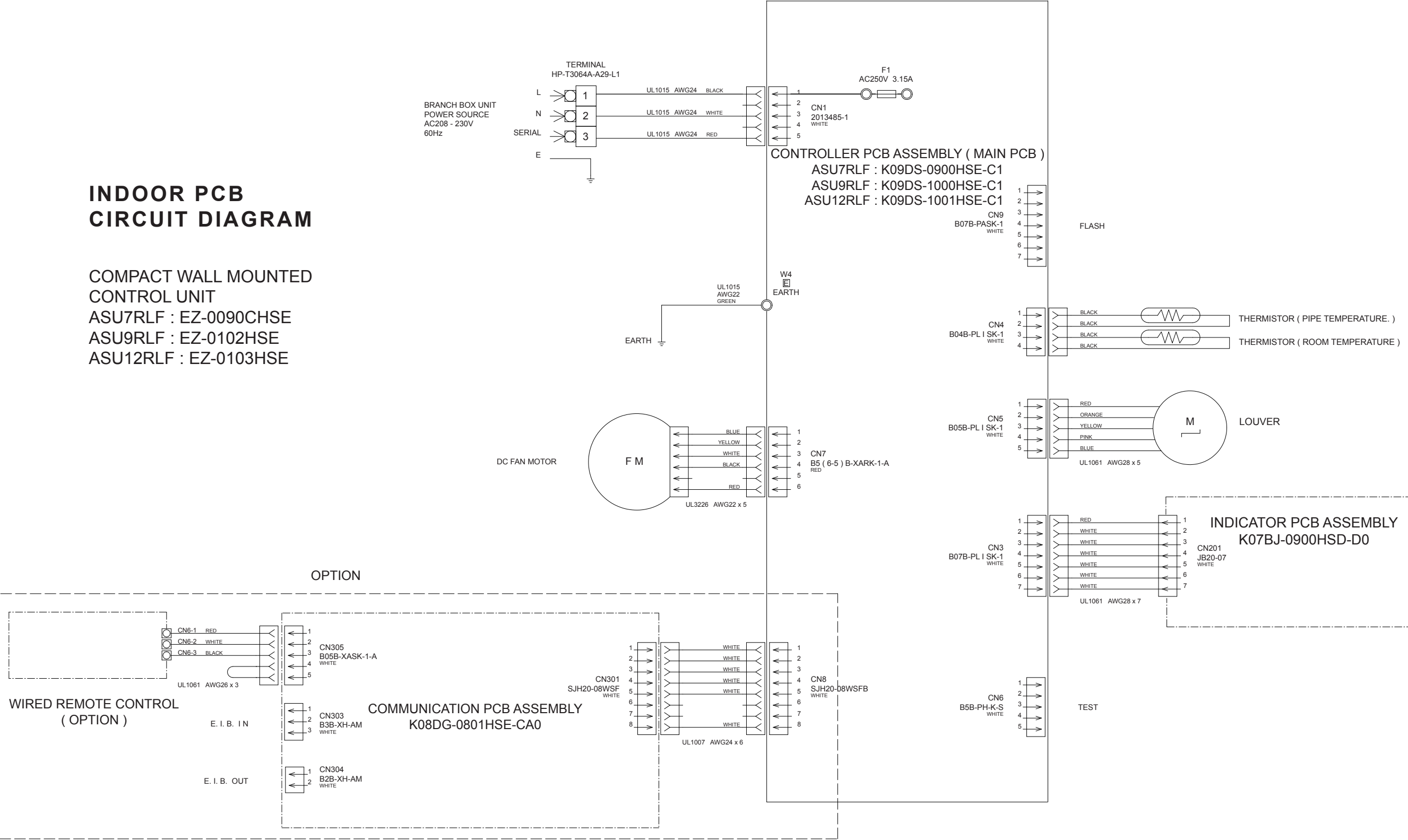


BRANCH BOX
CONTROLLER PCB ASSEMBLY - 2
K09BH-0900HME-C1

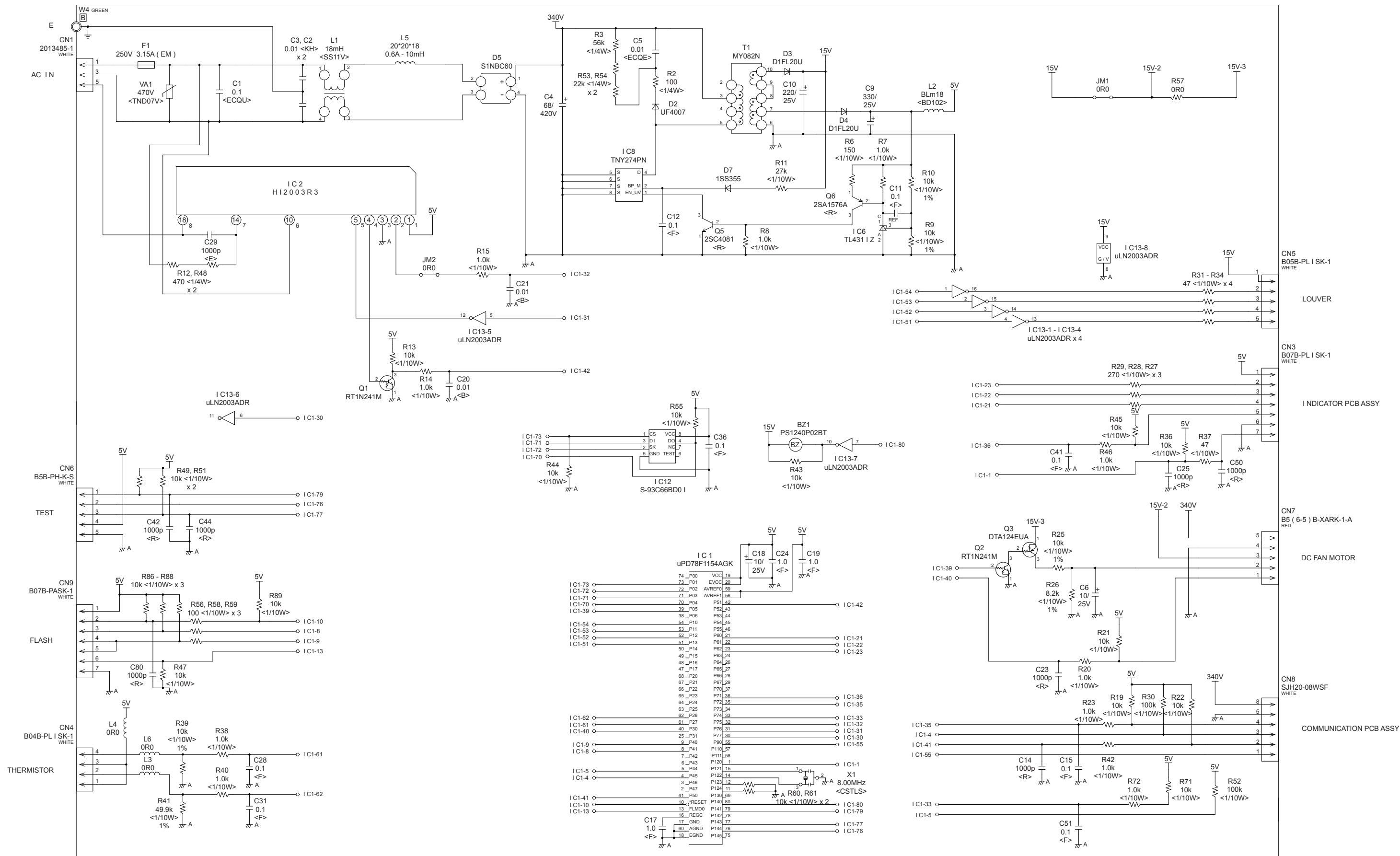


INDOOR PCB
CIRCUIT DIAGRAM

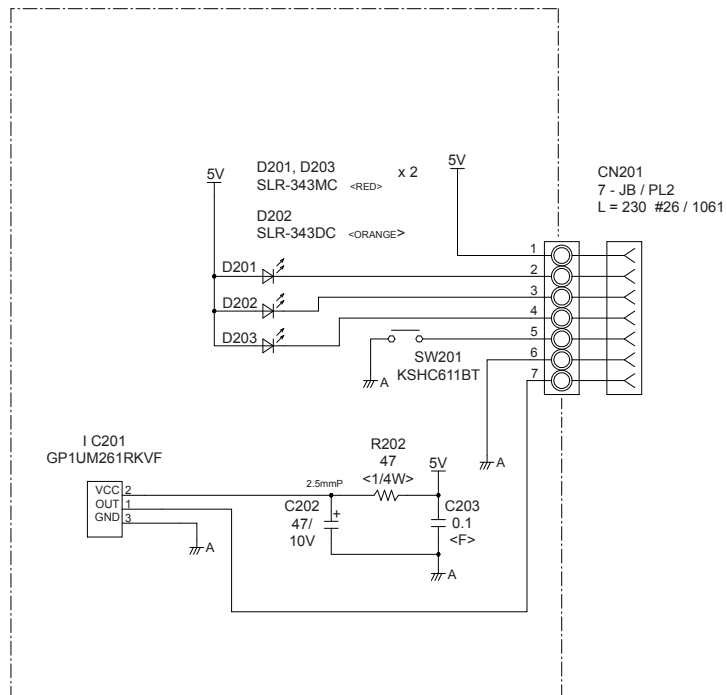
COMPACT WALL MOUNTED
CONTROL UNIT
ASU7RLF : EZ-0090CHSE
ASU9RLF : EZ-0102HSE
ASU12RLF : EZ-0103HSE



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

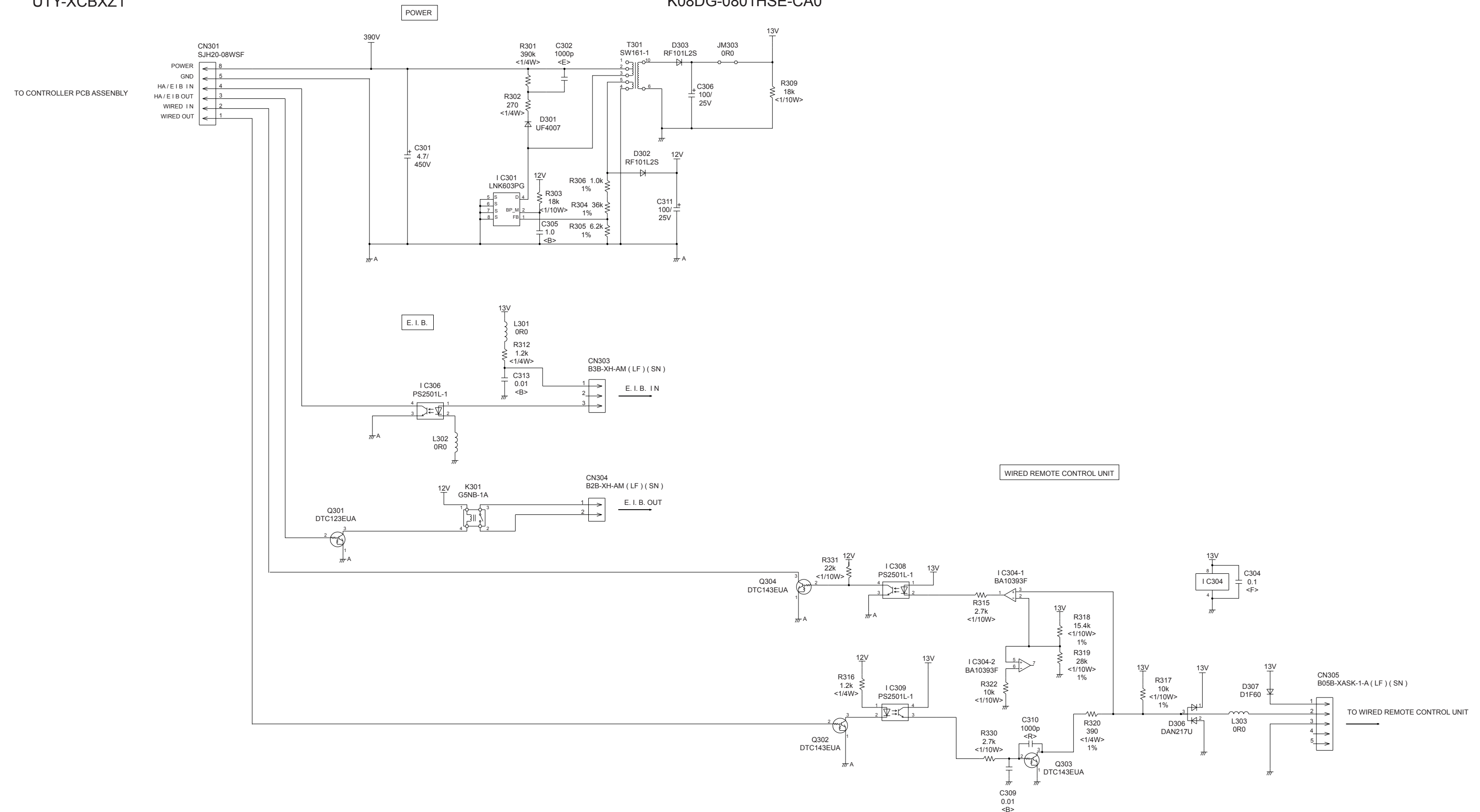


INDOOR UNIT
 COMPACT WALL MOUNTED
 ASU7RLF
 ASU9RLF
 ASU12RLF
 INDICATOR PCB ASSEMBLY
 K07BJ-0900HSD-D0

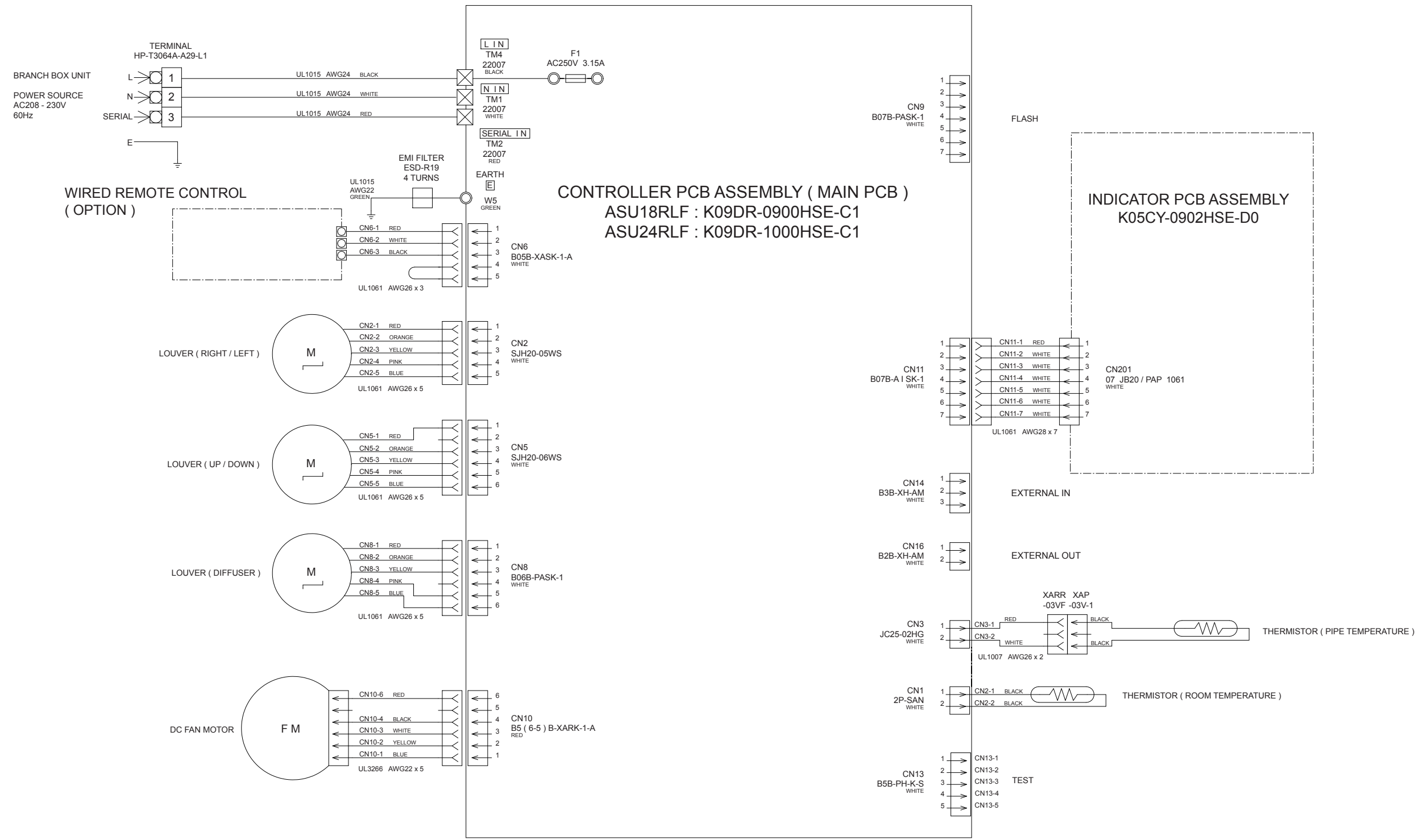


COMMUNICATION KIT
UTY-XCBXZ1

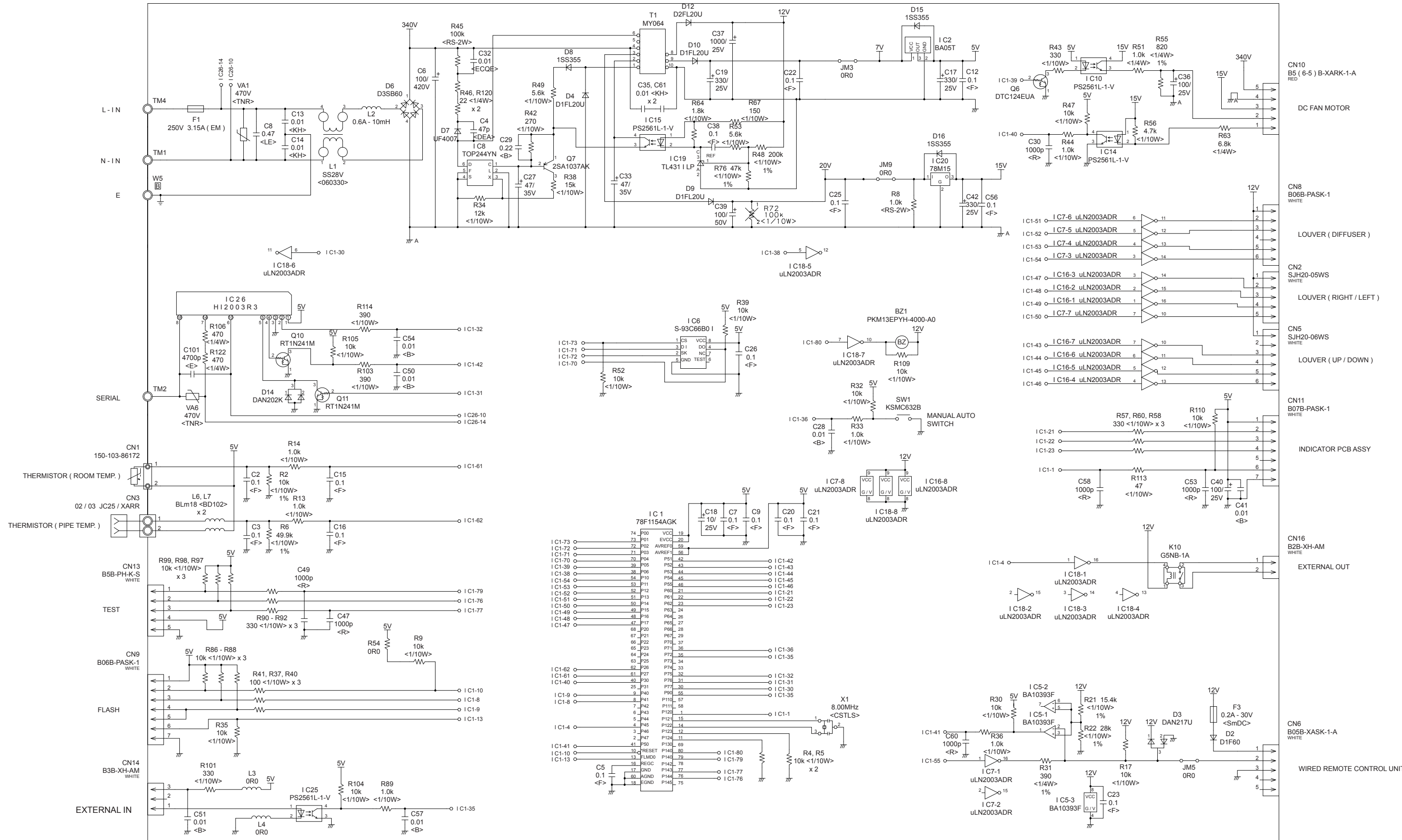
COMMUNICATION PCB ASSEMBLY
K08DG-0801HSE-CA0



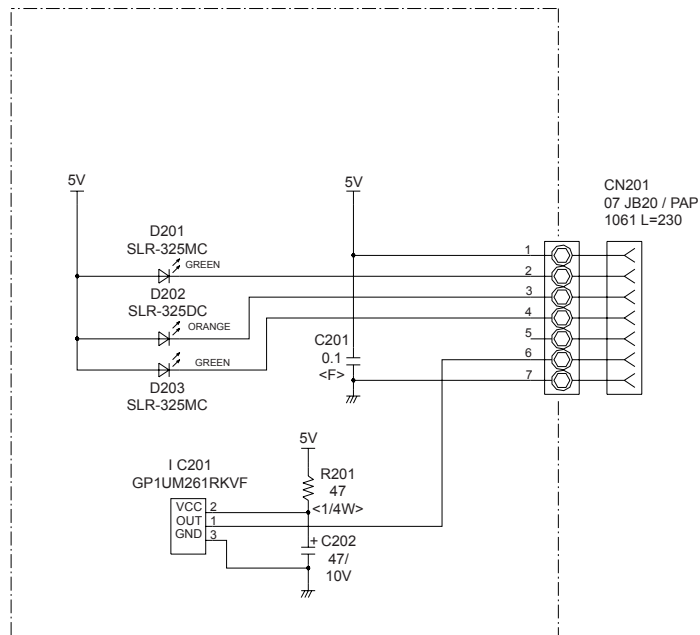
INDOOR UNIT
WALL MOUNTED
CONTROL UNIT
ASU18RLF : EZ-0090DHSE
ASU24RLF : EZ-0104HSE



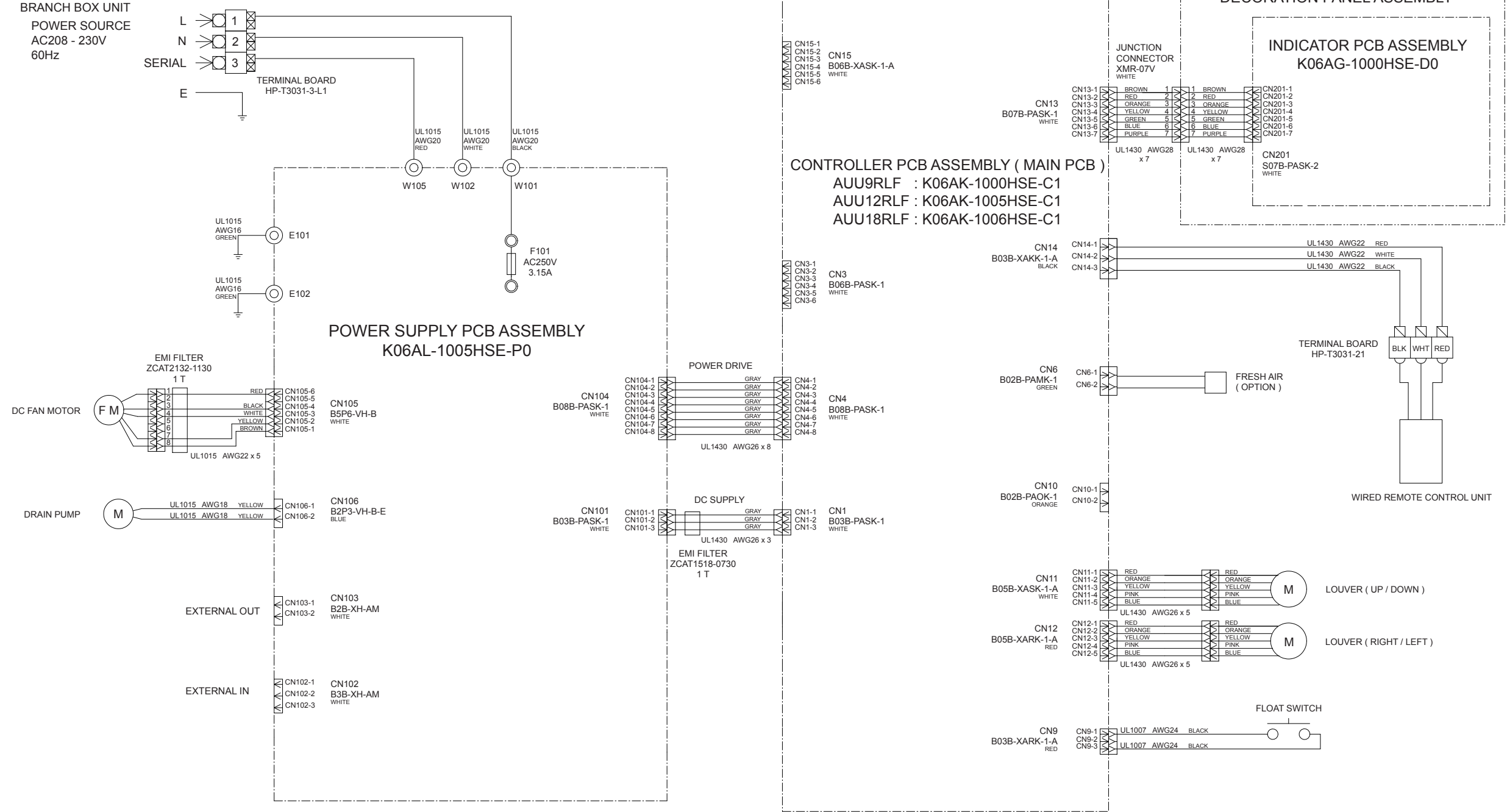
INDOOR UNIT
WALL MOUNTED
CONTROLLER PCB ASSEMBLY (MAIN PCB)
ASU18RLF : K09DR-0900HSE-C1
ASU24RLF : K09DR-1000HSE-C1



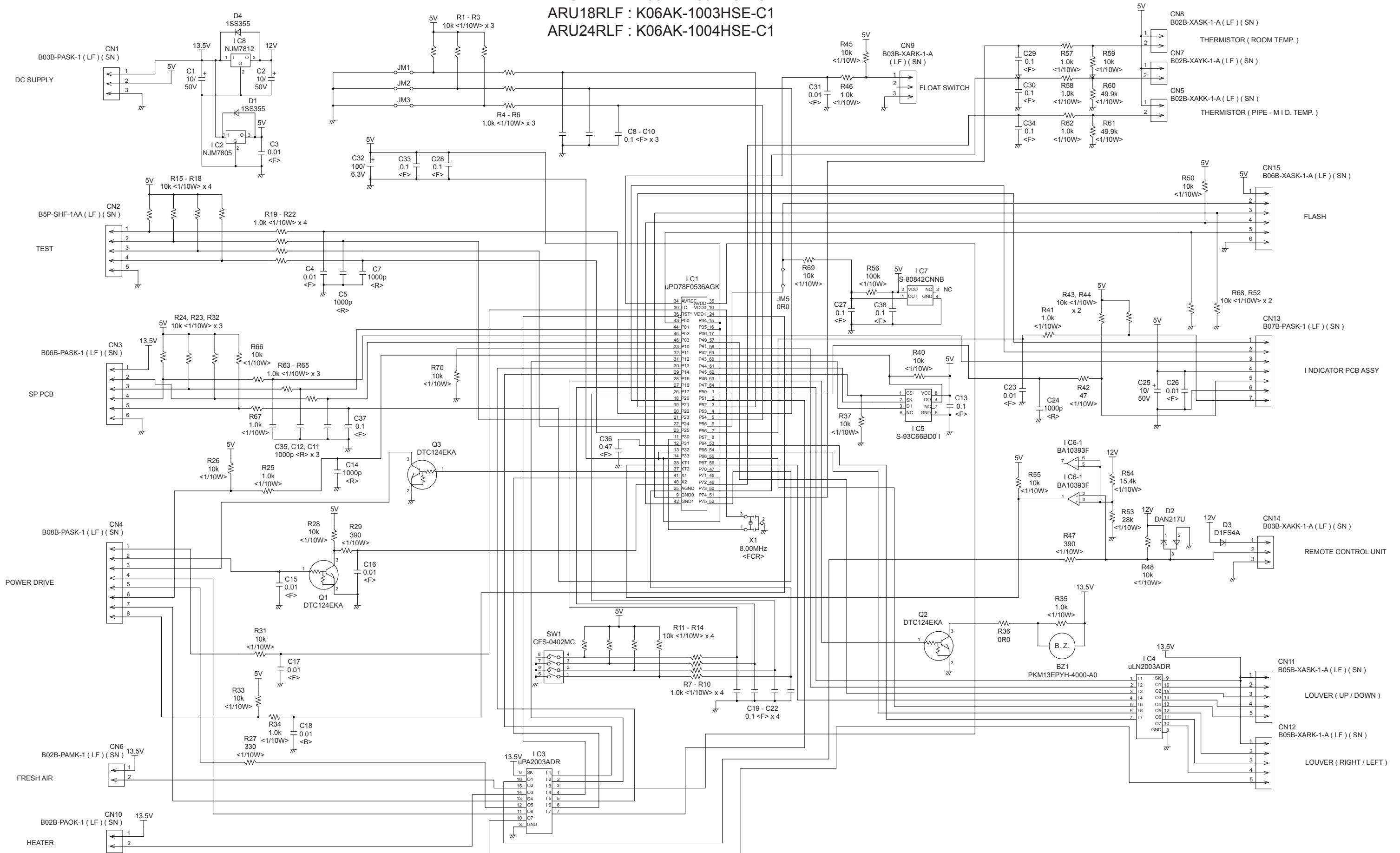
INDOOR UNIT
WALL MOUNTED
ASU18RLF
ASU24RLF
INDICATOR PCB ASSEMBLY
K05CY-0902HSE-D0

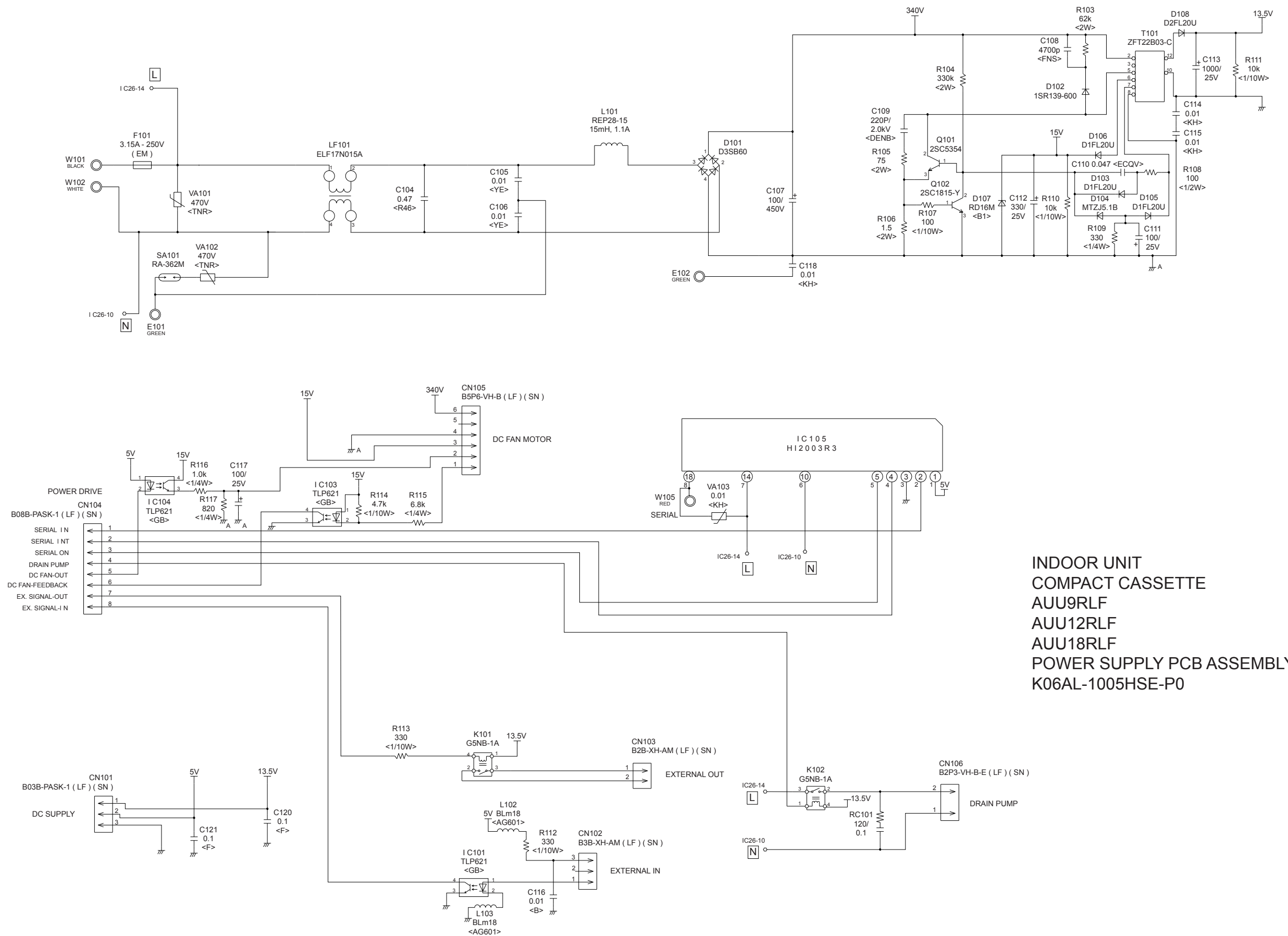


INDOOR UNIT
COMPACT CASSETTE
CONTROL UNIT
AUU9RLF : EZ-0100HSE
AUU12RLF : EZ-0105HSE
AUU18RLF : EZ-0106HSE



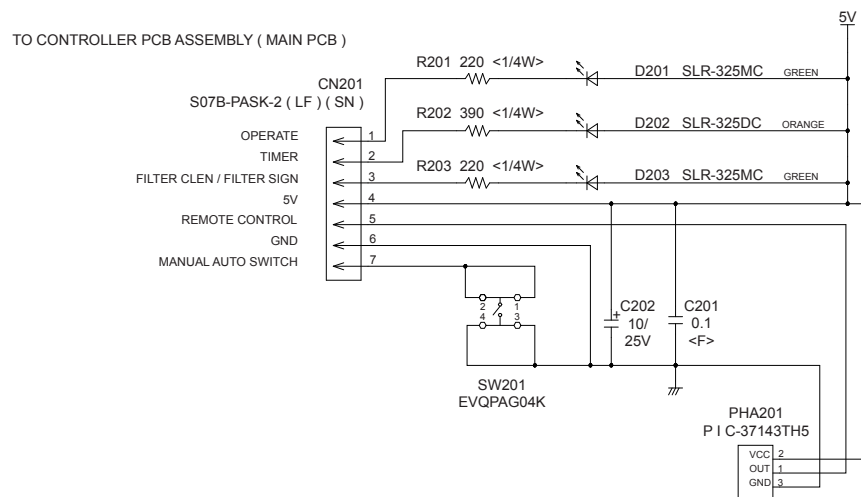
INDOOR UNIT
 CONTROLLER PCB ASSEMBLY (MAIN PCB)
 AUU9RLF : K06AK-1000HSE-C1
 AUU12RLF : K06AK-1005HSE-C1
 AUU18RLF : K06AK-1006HSE-C1
 ARU9RLF : K06AK-1001HSE-C1
 ARU12RLF : K06AK-1002HSE-C1
 ARU18RLF : K06AK-1003HSE-C1
 ARU24RLF : K06AK-1004HSE-C1



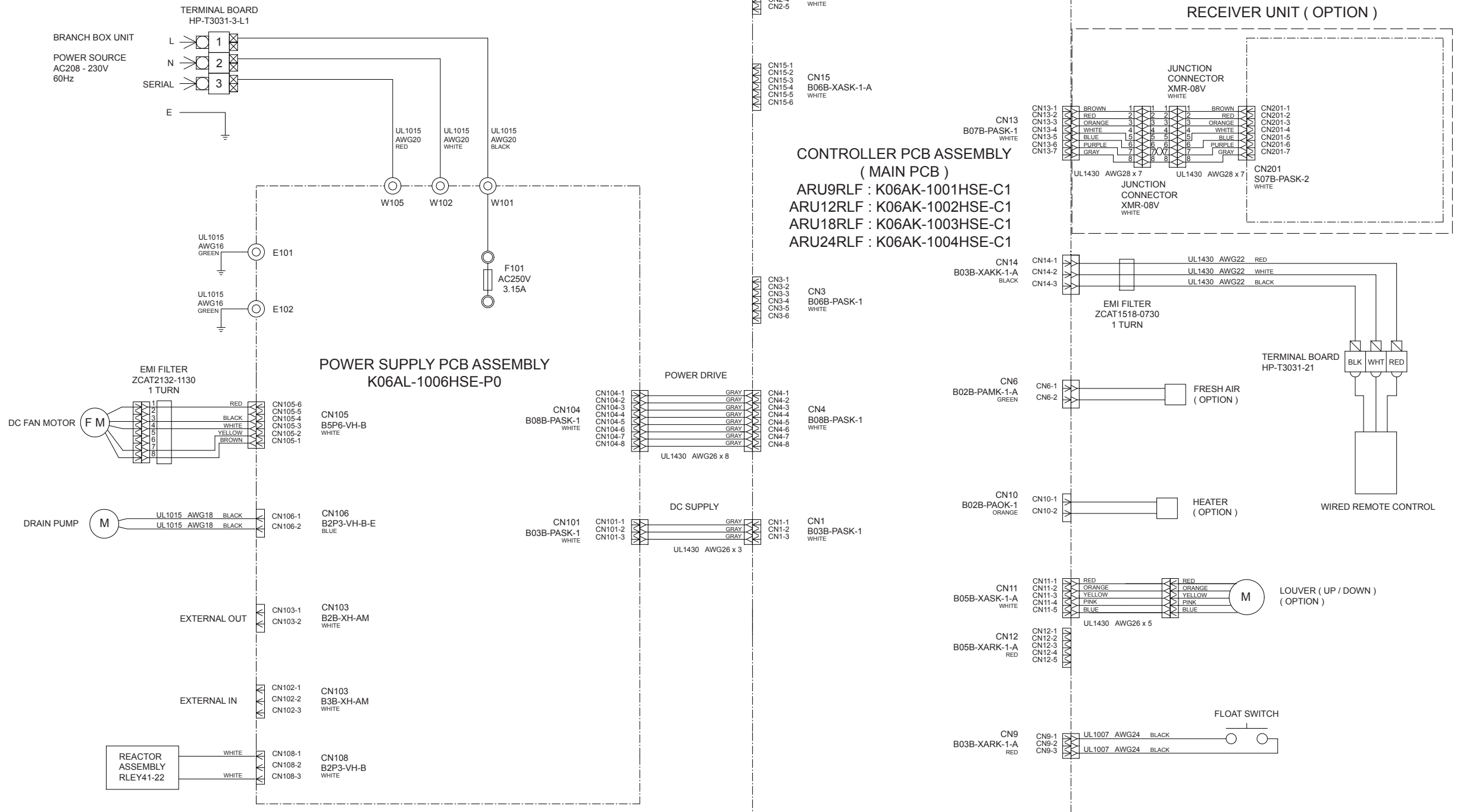


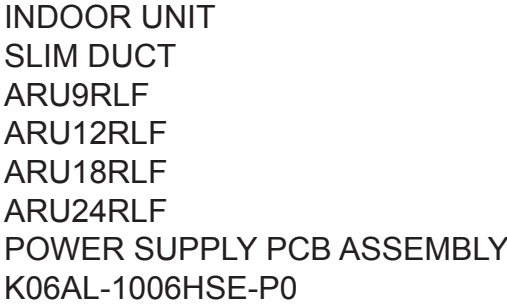
INDOOR UNIT
 COMPACT CASSETTE
 AUU9RLF
 AUU12RLF
 AUU18RLF
 POWER SUPPLY PCB ASSEMBLY
 K06AL-1005HSE-P0

INDOOR UNIT
 COMPACT CASSETTE
 AUU9RLF
 AUU12RLF
 AUU18RLF
 INDICATOR PCB ASSEMBLY (OPTION)
 K06AG-1000HSE-D0

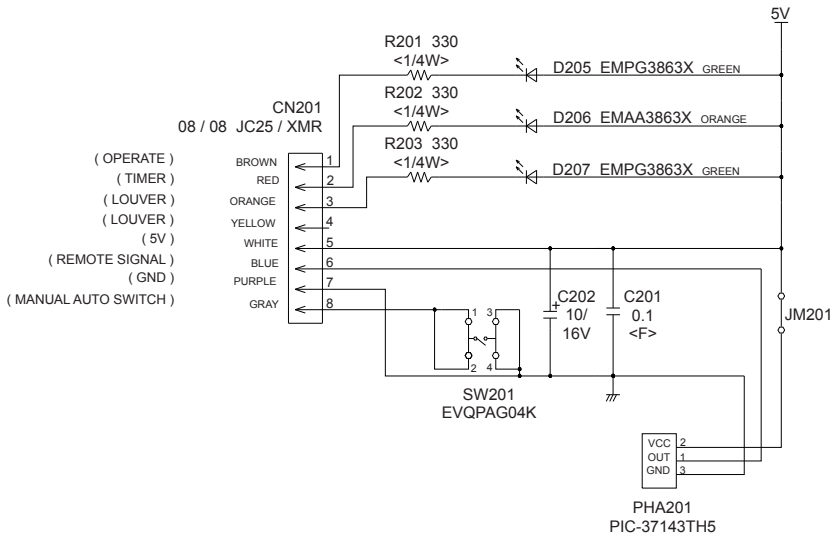


INDOOR UNIT
SLIM DUCT
CONTROL UNIT
ARU9RLF : EZ-0101HSE
ARU12RLF : EZ-0107HSE
ARU18RLF : EZ-0108HSE
ARU24RLF : EZ-0109HSE





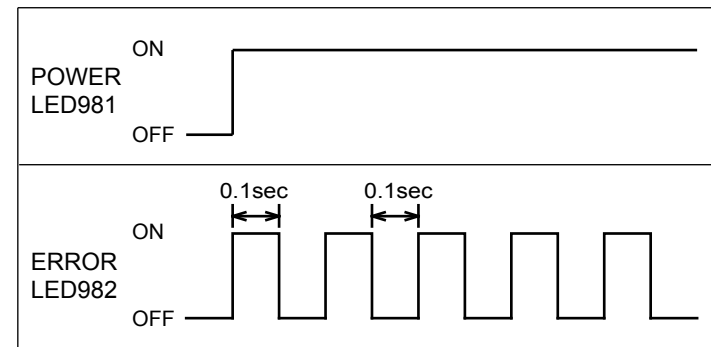
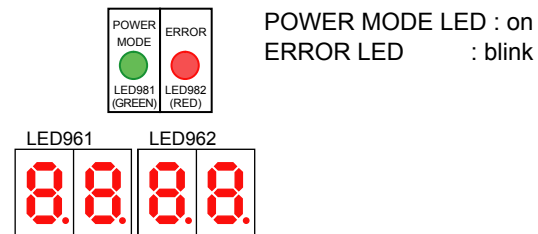
K04EI-1000HSE-D0



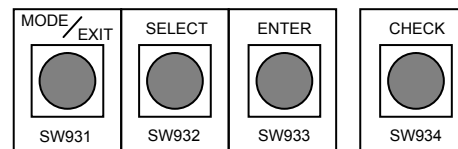
ERROR DETECTION

OUTDOOR UNIT

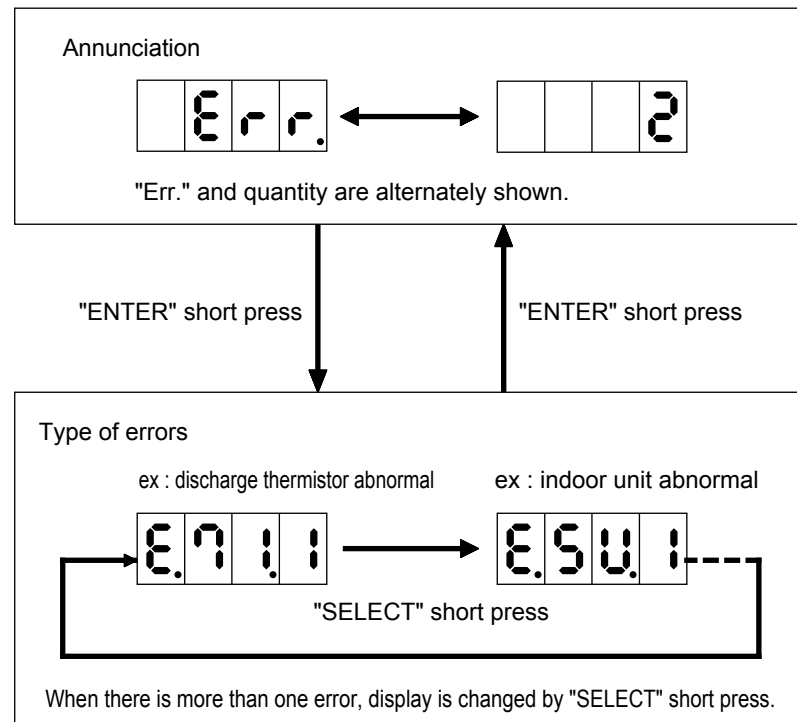
LED display



Operation button



ERROR transition



Short press : less than 3 seconds
Long press : more than 3 seconds

If some error newly occurs or is resolved during transition, it is reflected after going back to "Annunciation".

Error Code	Error Contents
E. 1 1. 3	Serial communication error
E. 1 1. 4	Serial communication error
E. 1 5. 6	Check run unfinished
E. 2 1. 2	Number of wires and pipes error
E. 2 2. 1	Indoor unit capacity error
E. 2 4. 2	Number of indoor units error
E. 2 4. 3	Number of branch boxes error
E. 5 U. 1	Indoor unit error
E. 6 2. 1	Outdoor unit model information error
E. 6 3. 1	Inverter error
E. 6 4. 1	A.F. voltage error
E. 7 1. 1	Discharge thermistor error
E. 7 2. 1	Compressor thermistor error
E. 7 3. 3	Heat ex. liquid outlet thermistor error
E. 7 4. 1	Outdoor thermistor error
E. 7 5. 1	Suction gas thermistor error
E. 7 7. 1	Heat sink thermistor error
E. 8 2. 1	Sub cool heat ex. gas inlet thermistor error
E. 8 2. 2	Sub cool heat ex. gas outlet thermistor error
E. 8 3. 1	Liquid pipe thermistor error
E. 8 4. 1	Current sensor error
E. 8 6. 1	Discharge pressure sensor error
E. 8 6. 3	Suction pressure sensor error
E. 8 6. 4	High pressure switch error
E. 9 4. 1	Over current error
E. 9 5. 1	Compressor control error
E. 9 7. 3	Outdoor unit fan motor error
E. 9 9. 1	4-way valve error
E. A 1. 1	Discharge temperature error
E. A 3. 1	Compressor temperature error
E. A 5. 1	Low pressure error
E. J 2. U	Branch boxes error

BRANCH BOX

When an error occurs, an error description displays in the LED (No.401 - 405).

●	Lit
◎ (n)	Flashing (number of flashing)
○	Unlit

Green	Red				Comment
LED401	LED402	LED403	LED404	LED405	
●	●	●	●	●	Connected combination error
●	●	●	●	○	Power frequency error
●	●	●	○	●	
Branch box identifying display	◎(1)	○	○	○	EEPROM access error
	◎(2)	○	○	○	Model information error
	◎(3)	○	○	○	Serial communication error between Outdoor Unit and branch box
					Serial communication error between branch boxes
	◎(4)	○	○	○	Serial communication error between branch boxes
	◎(5)	●	○	○	Serial communication error between Indoor Unit A and branch box
		○	●	○	Serial communication error between Indoor Unit B and branch box
		○	○	●	Serial communication error between Indoor Unit C and branch box
	◎(6)	●	○	○	Indoor Unit A, liquid pipe thermistor error (CN309)
		○	●	○	Indoor Unit B, liquid pipe thermistor error (CN309)
		○	○	●	Indoor Unit C, liquid pipe thermistor error (CN310)
	◎(7)	●	○	○	Indoor Unit A, gas pipe thermistor error (CN309)
		○	●	○	Indoor Unit B, gas pipe thermistor error (CN309)
		○	○	●	Indoor Unit C, gas pipe thermistor error (CN310)
	◎(8)	●	○	○	Indoor Unit A, EEV control error (CN305)
		○	●	○	Indoor Unit B, EEV control error (CN306)
		○	○	●	Indoor Unit C, EEV control error (CN307)
	◎(9)	○	○	○	Remote control communication error

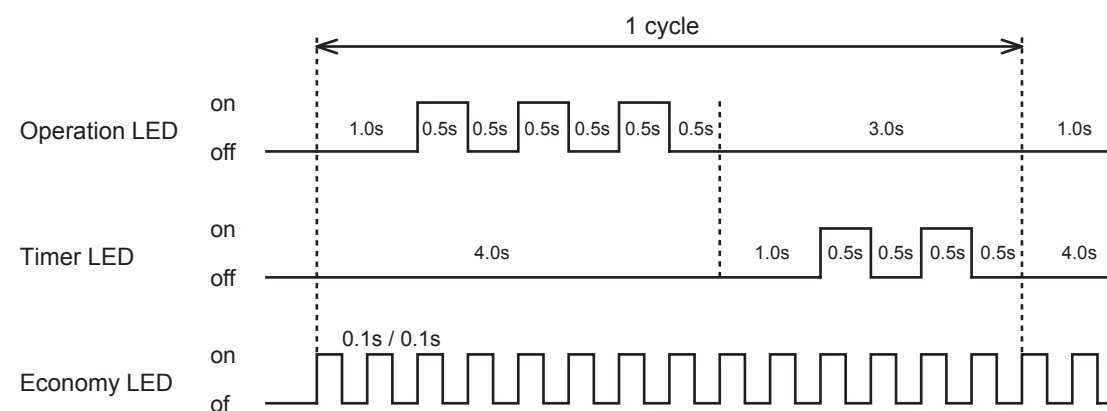
INDOOR UNIT

Error Contents	Operation LED	Timer LED	Economy LED
Serial Communication Error	1 times flash	1 times flash	Continuous flash
Wired Remote Controller Communication Error	1 times flash	2 times flash	Continuous flash
Check Run Unfinished	1 times flash	5 times flash	Continuous flash
Number of Wires and Pipes Error	2 times flash	1 times flash	Continuous flash
Indoor Unit Capacity Error	2 times flash	2 times flash	Continuous flash
Connected Combination Error	2 times flash	3 times flash	Continuous flash
Number of Indoor Units Error Number of Branch boxes Error	2 times flash	4 times flash	Continuous flash
Indoor Unit Model Information Error EEPROM Access Abnormal	3 times flash	2 times flash	Continuous flash
Manual Auto Switch Error	3 times flash	5 times flash	Continuous flash
Indoor Room Thermistor Error	4 times flash	1 times flash	Continuous flash
Indoor Heat Ex. Thermistor Error	4 times flash	2 times flash	Continuous flash
Indoor Unit Fan Motor Error	5 times flash	1 times flash	Continuous flash
Drainage Error	5 times flash	3 times flash	Continuous flash
Outdoor Unit Model Information Error	6 times flash	2 times flash	Continuous flash
Inverter Error	6 times flash	3 times flash	Continuous flash
A. F. Voltage Error	6 times flash	4 times flash	Continuous flash
I.P.M. Error	6 times flash	5 times flash	Continuous flash
Display P.C.B. Communication Error	6 times flash	10 times flash	Continuous flash
Discharge Thermistor Error	7 times flash	1 times flash	Continuous flash
Compressor Thermistor Error	7 times flash	2 times flash	Continuous flash
Heat Ex. Liquid Outlet Thermistor Error	7 times flash	3 times flash	Continuous flash
Outdoor Thermistor Error	7 times flash	4 times flash	Continuous flash
Suction Gas Thermistor Error	7 times flash	5 times flash	Continuous flash
Heat Sink Thermistor Error	7 times flash	7 times flash	Continuous flash

Error Contents	Operation LED	Timer LED	Economy LED
Sub-Cool Heat Ex.Gas Inlet Thermistor Error Sub-Cool Heat Ex.Gas Outlet Thermistor Error	8 times flash	2 times flash	Continuous flash
Liquid Pipe Thermistor Error	8 times flash	3 times flash	Continuous flash
Current Sensor Error	8 times flash	4 times flash	Continuous flash
Discharge Pressure Sensor Error Suction Pressure Sensor Error High Pressure Switch Error	8 times flash	6 times flash	Continuous flash
Over Current Error	9 times flash	4 times flash	Continuous flash
Compressor Control Error	9 times flash	5 times flash	Continuous flash
Outdoor Unit Fan Motor Error	9 times flash	7 times flash	Continuous flash
4 Way Valve Error	9 times flash	9 times flash	Continuous flash
Discharge Temp. Error	10 times flash	1 times flash	Continuous flash
Compressor Temp. Error	10 times flash	3 times flash	Continuous flash
Low Pressure Error	10 times flash	5 times flash	Continuous flash
Branch Boxes Error	13 times flash	2 times flash	Continuous flash

Flashing pattern example

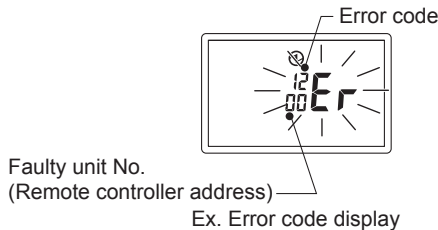
Indoor unit main PCB error
(Operation LED : 3 times, Timer LED : 2 times)



REMOTE CONTROL

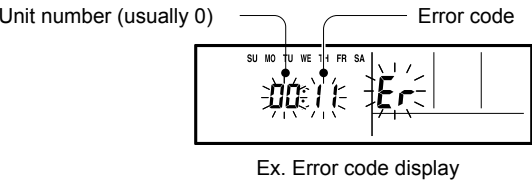
SIMPLE REMOTE CONTROLLER

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.



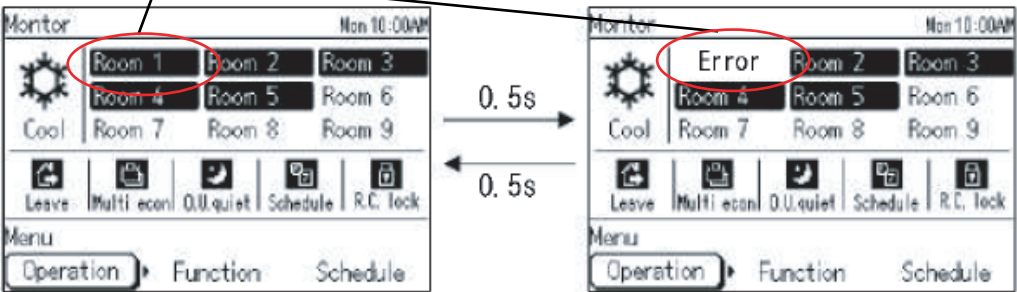
WIRED REMOTE CONTROLLER

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.



CENTRAL REMOTE CONTROLLER

To show which indoor unit is the error displayed.
indoor unit's name and "ERROR" are alternately shown.
(0.5s indoor unit's name / 0.5s "ERROR")

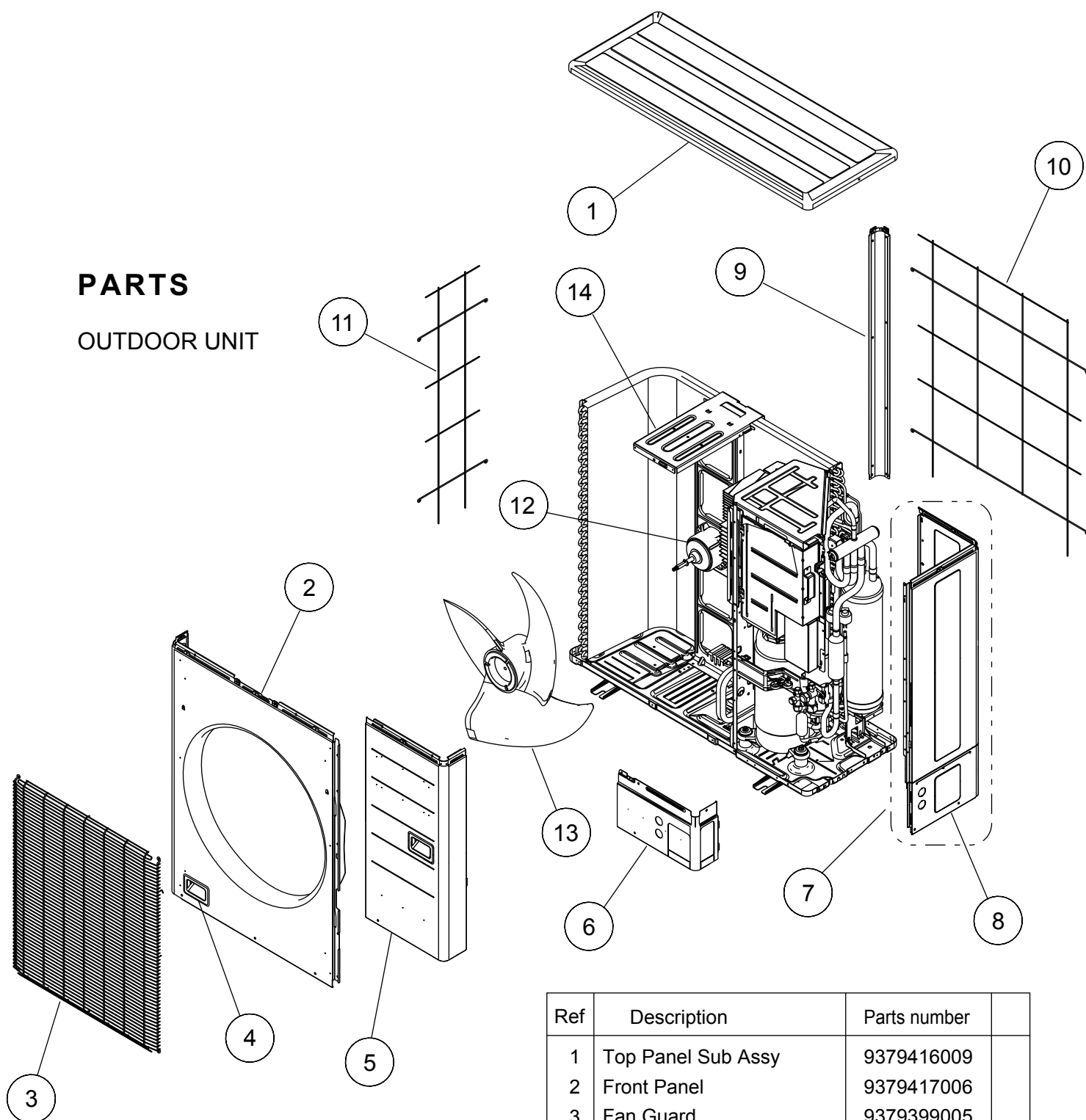


Error Code	Error Contents
1 1	Serial Communication Error
1 2	Wired Remote Controller Communication Error
1 5	Chech Run Unfinished
2 1	Number of Wires and Pipes Error
2 2	Indoor Unit Capacity Error
2 3	Connected Combination Error
2 4	Number of Indoor Units Error Number of Branch boxes Error
3 2	Indoor Unit Model Information Error EEPROM Access Abnormal
3 5	Manual Auto Switch Error
4 1	Indoor Room Thermistor Error
4 2	Indoor Heat Ex. Thermistor Error
5 1	Indoor Unit Fan Motor Error
5 3	Drainage Error
6 2	Outdoor Unit Model Information Error
6 3	Inverter Error
6 4	A. F. Voltage Error
6 5	I.P.M. Error
6 A	Display P.C.B. Communication Error
7 1	Discharge Thermistor Error
7 2	Compressor Thermistor Error
7 3	Heat Ex. Liquid Outlet Thermistor Error
7 4	Outdoor Thermistor Error
7 5	Suction Gas Thermistor Error
7 7	Heat Sink Thermistor Error

Error Code	Error Contents
8 2	Sub-Cool Heat Ex.Gas Inlet Thermistor Error Sub-Cool Heat Ex.Gas Outlet Thermistor Error
8 3	Liquid Pipe Thermistor Error
8 4	Current Sensor Error
8 6	Discharge Pressure Sensor Error Suction Pressure Sensor Error High Pressure Switch Error
9 4	Over Current Error
9 5	Compressor Control Error
9 7	Outdoor Unit Fan Motor Error
9 9	4 Way Valve Error
A 1	Discharge Temp. Error
A 3	Compressor Temp. Error
A 5	Low Pressure Error
J 2	Branch Boxes Error

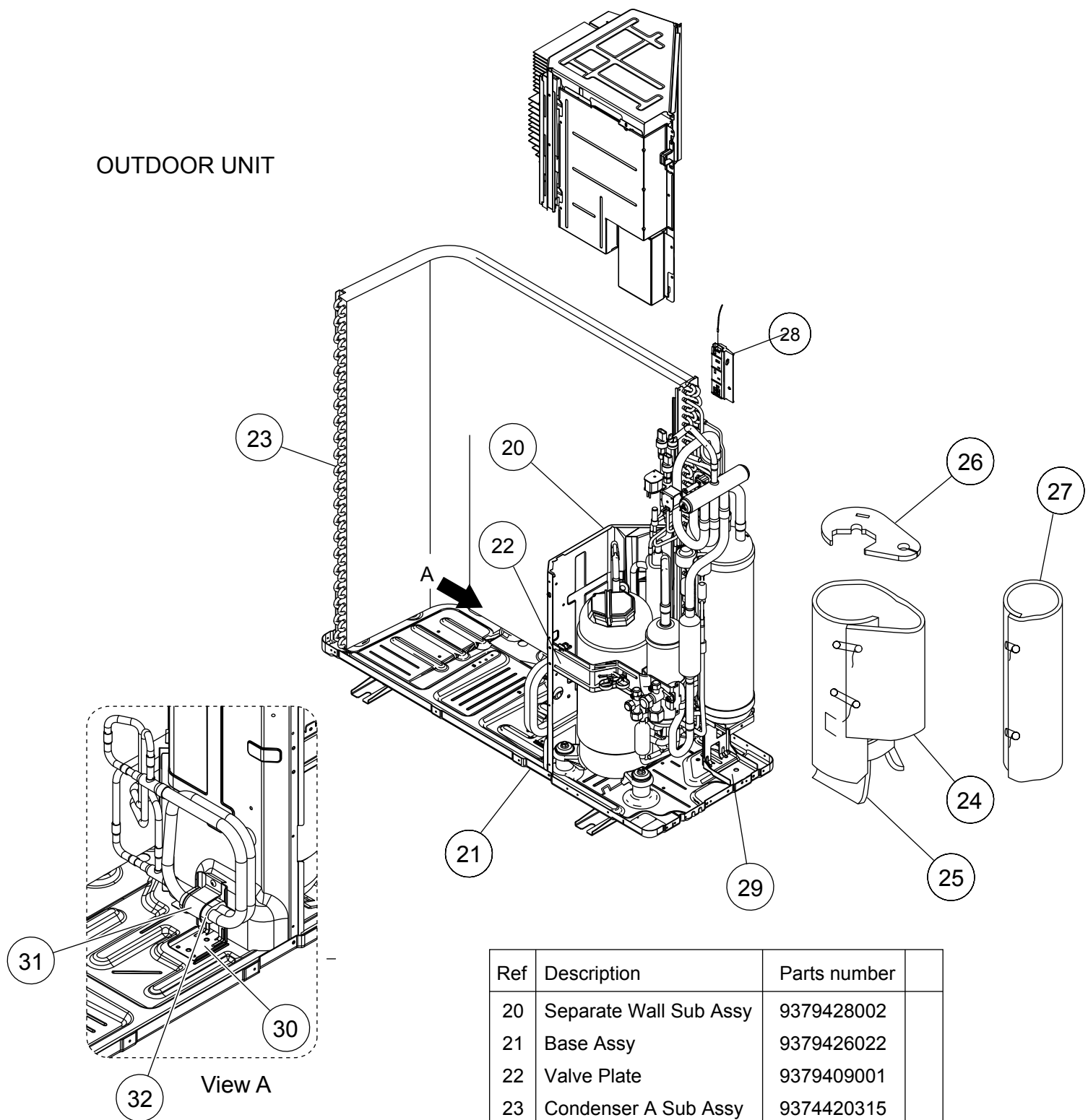
PARTS

OUTDOOR UNIT



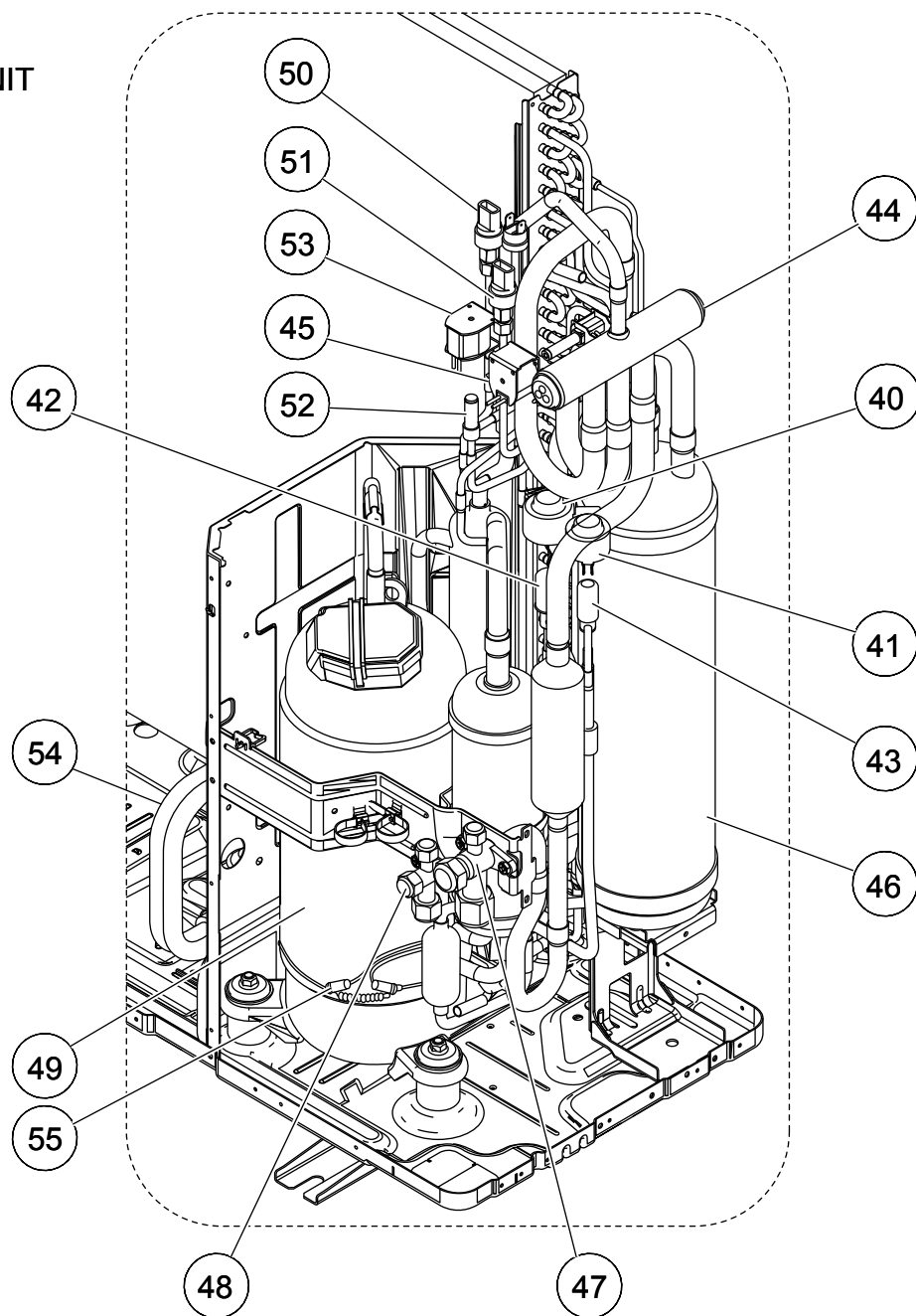
Ref	Description	Parts number	
1	Top Panel Sub Assy	9379416009	
2	Front Panel	9379417006	
3	Fan Guard	9379399005	
4	Grip	9379854009	
5	Service Panel Sub Assy	9379424004	
6	Pipe Cover Front	9378861015	
7	Right Panel Sub Assy	9379420006	
8	Pipe Cover Rear	9379422000	
9	Left Panel	9379431002	
10	Protective Net (Rear)	9379404006	
11	Protective Net (Left)	9379396004	
12	Motor DC Brushless	9603013011	
13	Propeller Fan	9379414005	
14	Motor Bracket Sub Assy	9379429009	
--	Emblem Rear (HALCYON)	9380113003	
--	Emblem Rear (FUJITSU)	9380114000	

OUTDOOR UNIT



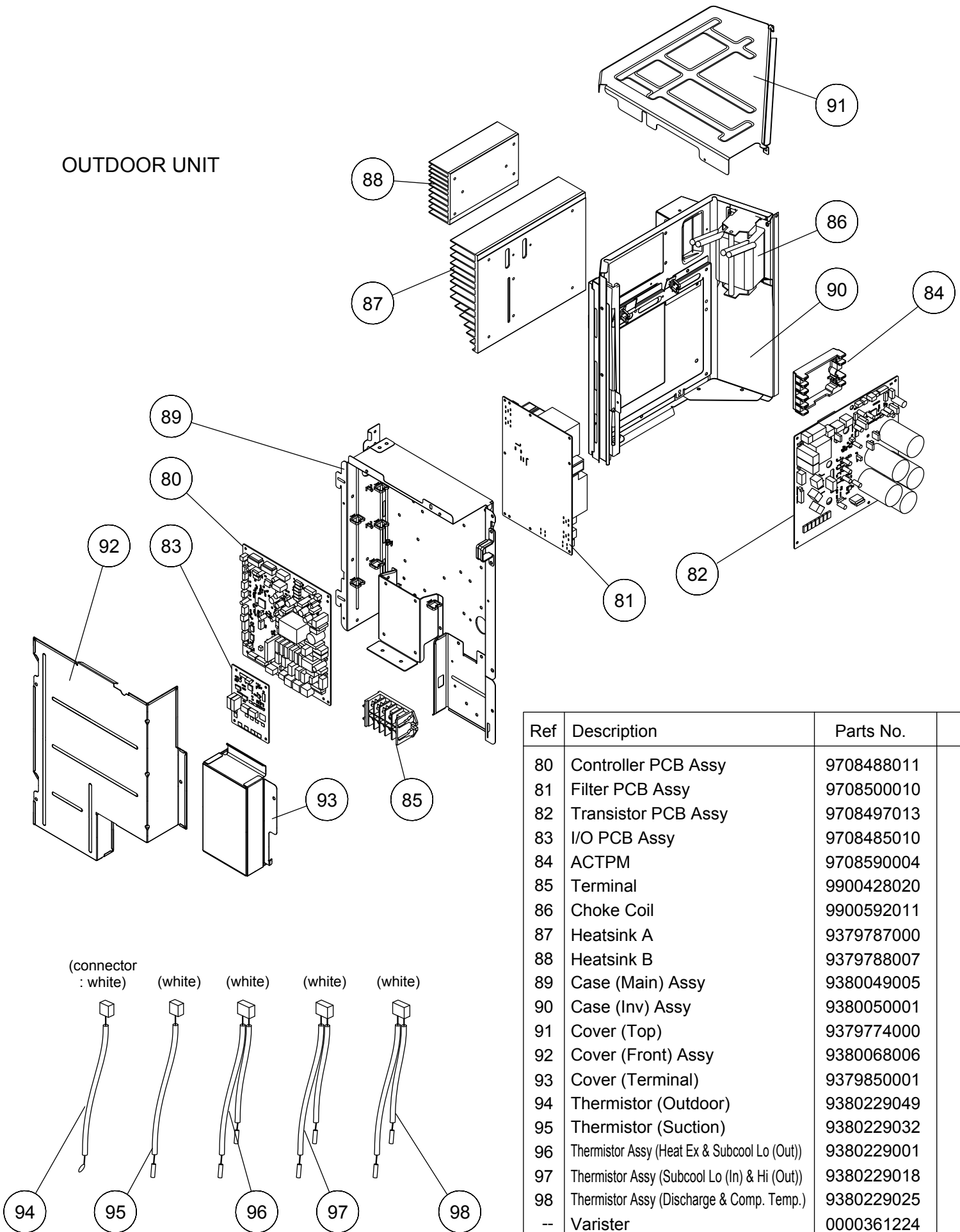
Ref	Description	Parts number	
20	Separate Wall Sub Assy	9379428002	
21	Base Assy	9379426022	
22	Valve Plate	9379409001	
23	Condenser A Sub Assy	9374420315	
24	Compressor Cover A	9378611054	
25	Compressor Cover B	9379974004	
26	Compressor Cover Top	9379975001	
27	Accumulator Cover	9379977005	
28	Thermo Holder	9374177011	
29	Holder (Accumulator)	9379762007	
30	Holder (Sub Cool) A	9379674003	
31	Holder (Sub Cool) B	9379675000	
32	Rubber (Sub Cool)	9379676007	

OUTDOOR UNIT



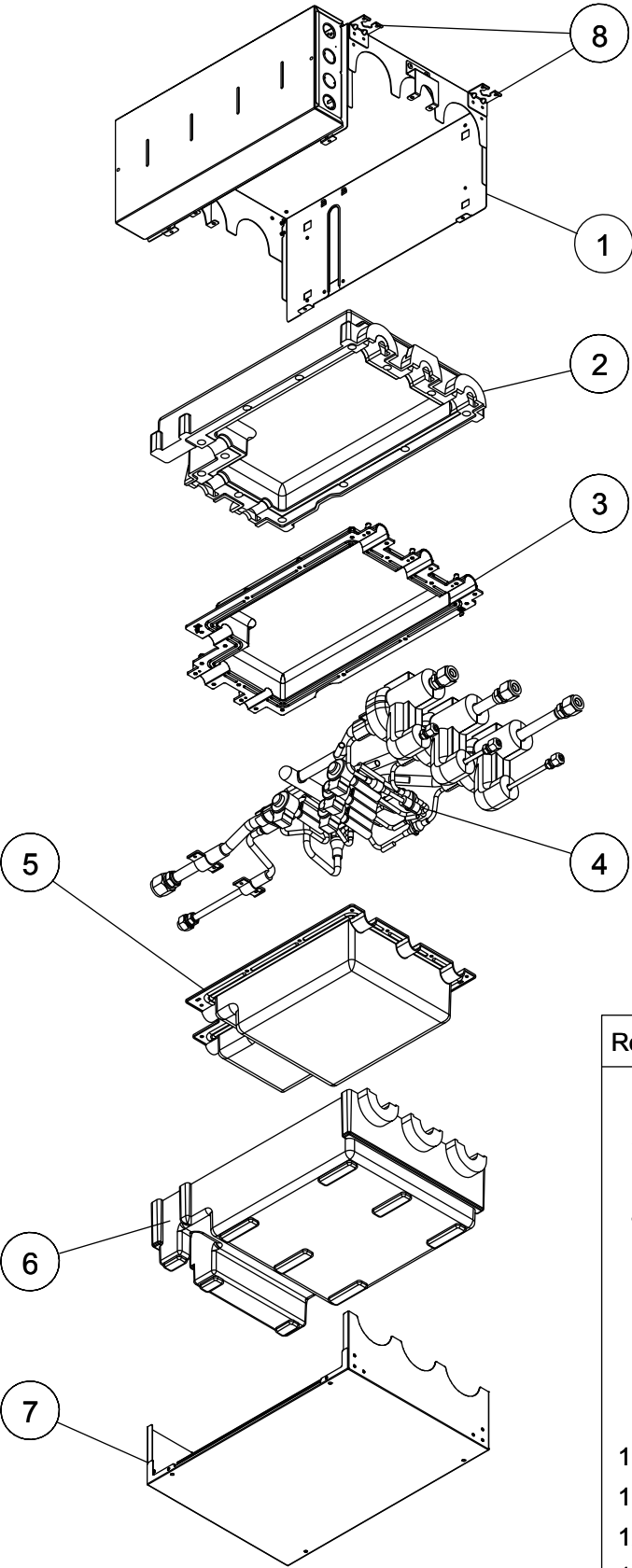
Ref	Description	Parts number	
40	Coil (Expansion Valve)	9380229070	
41	Coil (Expansion Valve)	9380229087	
42	Expansion Valve A Assy	9380060079	
43	Expansion Valve B Assy	9380060086	
44	4-way Valve Assy	9374425211	
45	Solenoid (4-way Valve)	9380229100	
46	Accumulator Sub Assy	9372700044	
47	3-way Valve A Assy	9380024019	
48	3-way Valve B Assy	9380025016	
49	Compressor Assy	9374423248	
50	Sensor (HP)	9380229056	
51	Sensor (LP)	9380229063	
52	Solenoid Valve Assy	9380016014	
53	Solenoid (Solenoid Valve)	9380229094	
54	Sub Cool HEx Sub Assy	9379051026	
55	Heater (Crank Case)	9380229117	

OUTDOOR UNIT

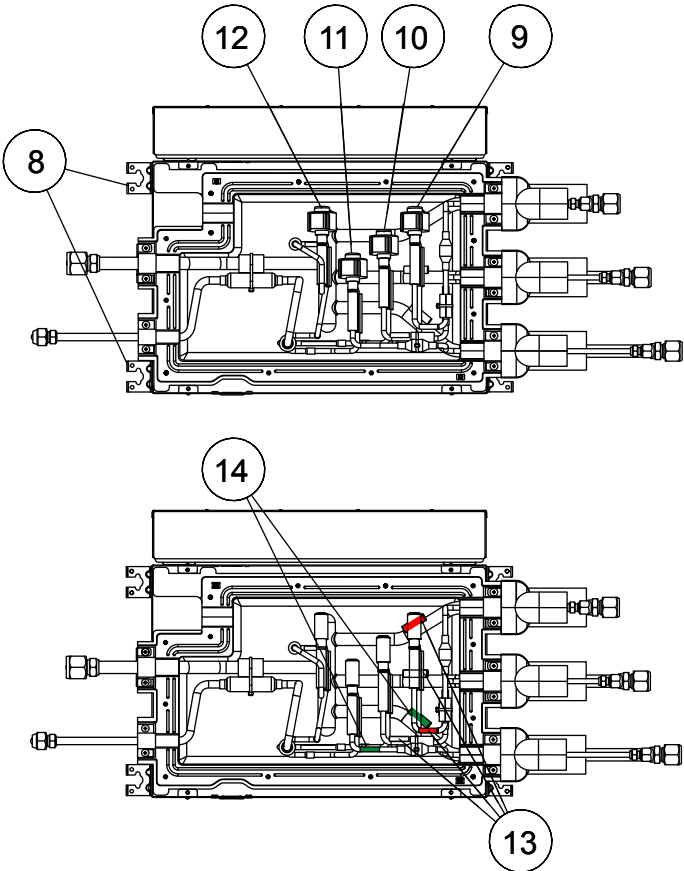


Ref	Description	Parts No.	
80	Controller PCB Assy	9708488011	
81	Filter PCB Assy	9708500010	
82	Transistor PCB Assy	9708497013	
83	I/O PCB Assy	9708485010	
84	ACTPM	9708590004	
85	Terminal	9900428020	
86	Choke Coil	9900592011	
87	Heatsink A	9379787000	
88	Heatsink B	9379788007	
89	Case (Main) Assy	9380049005	
90	Case (Inv) Assy	9380050001	
91	Cover (Top)	9379774000	
92	Cover (Front) Assy	9380068006	
93	Cover (Terminal)	9379850001	
94	Thermistor (Outdoor)	9380229049	
95	Thermistor (Suction)	9380229032	
96	Thermistor Assy (Heat Ex & Subcool Lo (Out))	9380229001	
97	Thermistor Assy (Subcool Lo (In) & Hi (Out))	9380229018	
98	Thermistor Assy (Discharge & Comp. Temp.)	9380229025	
--	Varister	0000361224	
--	Fuse	0600470012	
--	Arrester	0600280154	

BRANCH BOX
 UTP-PU03A
 UTP-PU03B

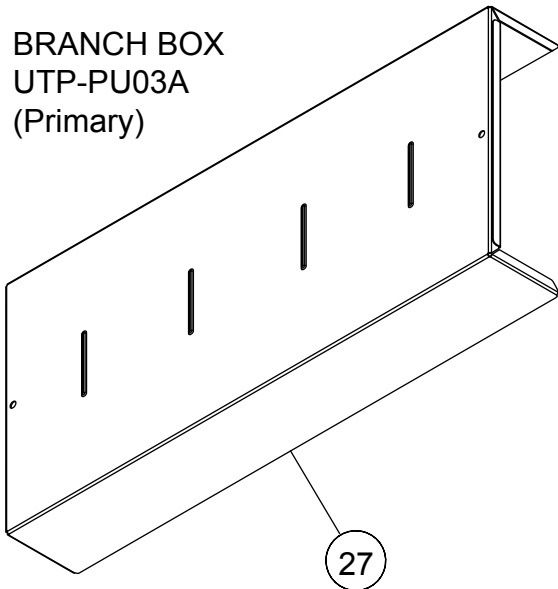


Bottom view

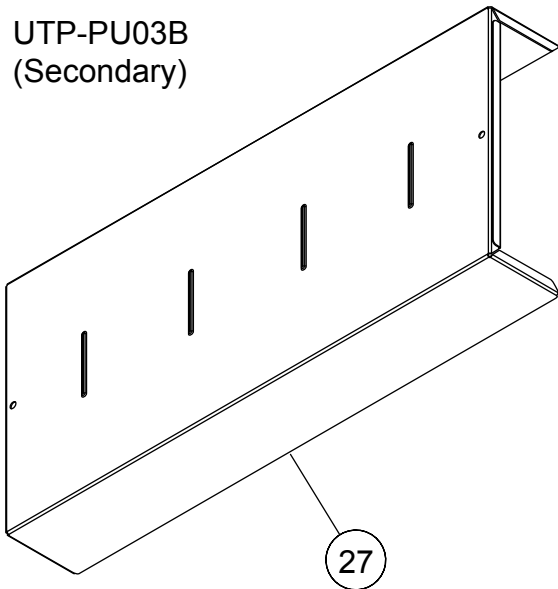


Ref	Description	Parts number	
1	Top Panel	9379775007	
2	Insulation Box (Top) Sub Assy	9380102007	
3	Case (Top) Sub Assy	9380108009	
4	Pipe Unit	9380055020	
5	Case (Bottom)	9379789004	
6	Insulation Box (Bottom) Sub Assy	9380103004	
7	Bottom Panel	9379776004	
8	Hook Metal	9379778008	
9	Coil (Expansion Valve) Assy A (Red)	9380170013	
10	Coil (Expansion Valve) Assy B (White)	9380170020	
11	Coil (Expansion Valve) Assy C (Green)	9380170037	
12	Coil (Expansion Valve) Assy D (Blue)	9380170044	
13	Thermistor Assy A (Red & White)	9380170051	
14	Thermistor Assy B (Green)	9380170068	

BRANCH BOX
UTP-PU03A
(Primary)



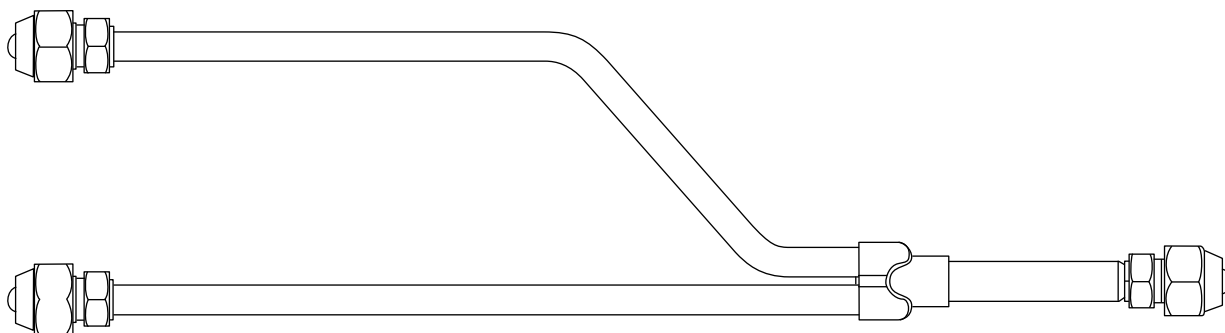
UTP-PU03B
(Secondary)



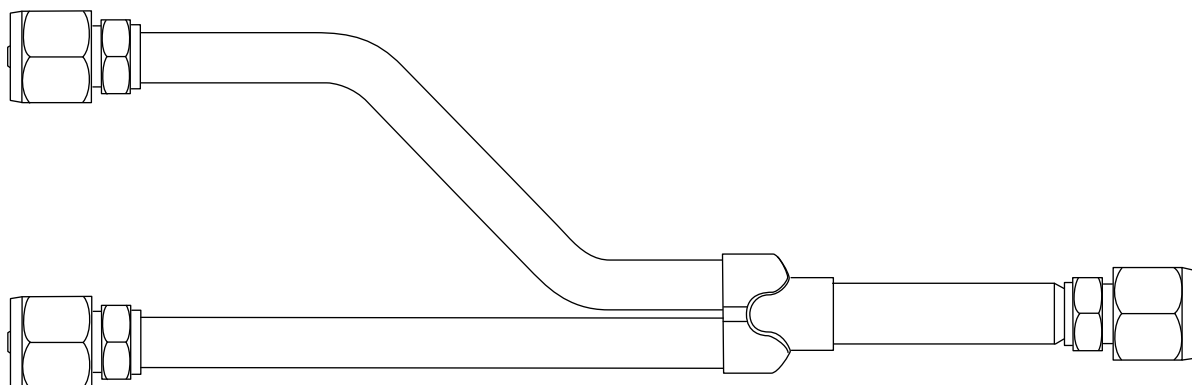
Ref	Description	Parts number	
		UTP-PU03A	UTP-PU03B
20	Controller PCB Assy	9708482019	9708482019
21	Terminal (Power)	9306489199	9306489199
22	Terminal (Inner)	9306489182	9306489182
23	Terminal (Ooter)	9306489182	---
24	Terminal (Branch Box)	9306489182	9306489182
25	Terminal (Remote Control)	9900567002	9900567002
26	Control Box Assy	9380053019	9380053019
27	Control Box Cover	9379781008	9379781008

SEPARATION TUBE
UTP-SX248A

Branch Pipe A Sub Assy : 9371627069

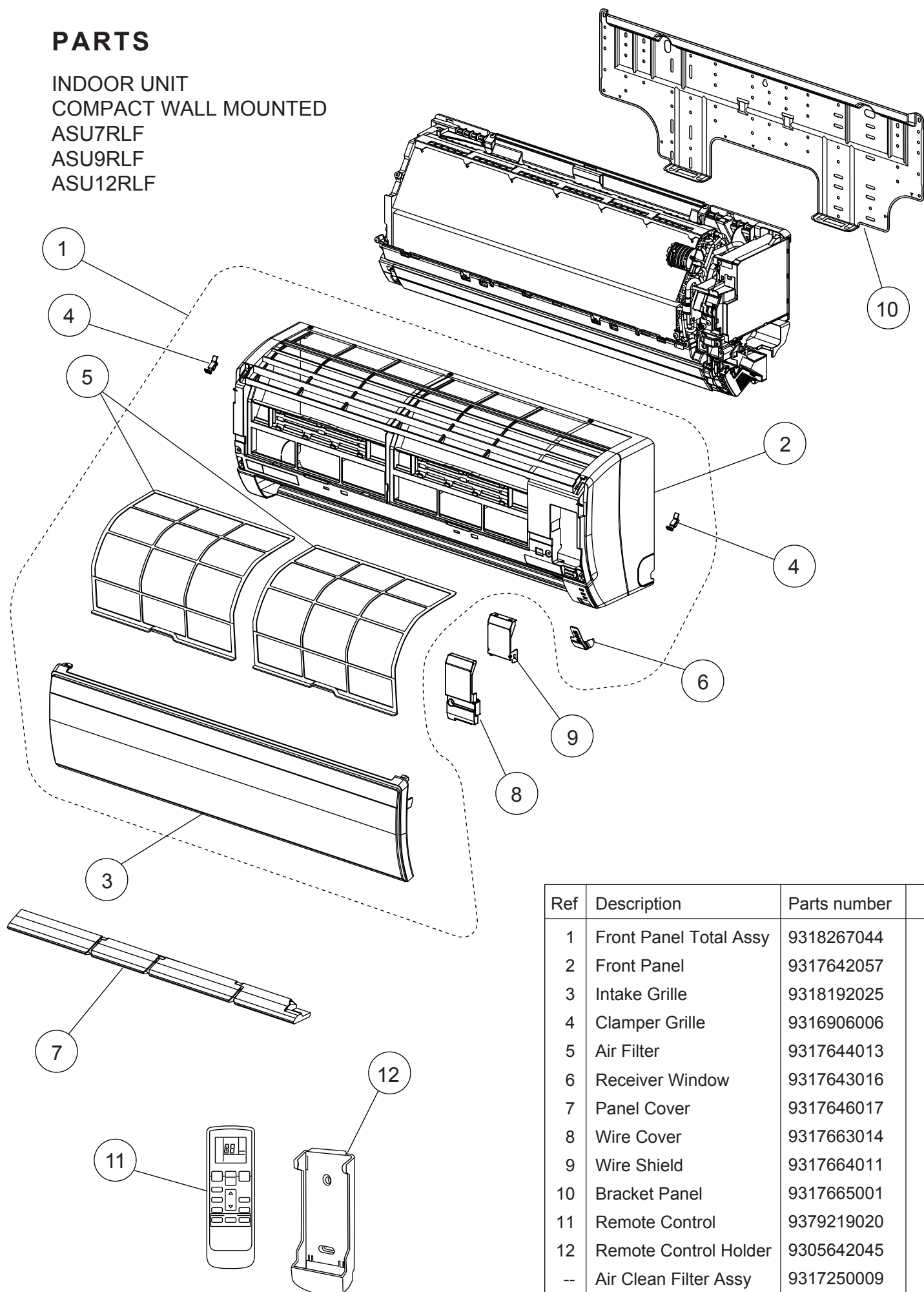


Branch Pipe B Sub Assy : 9373161288



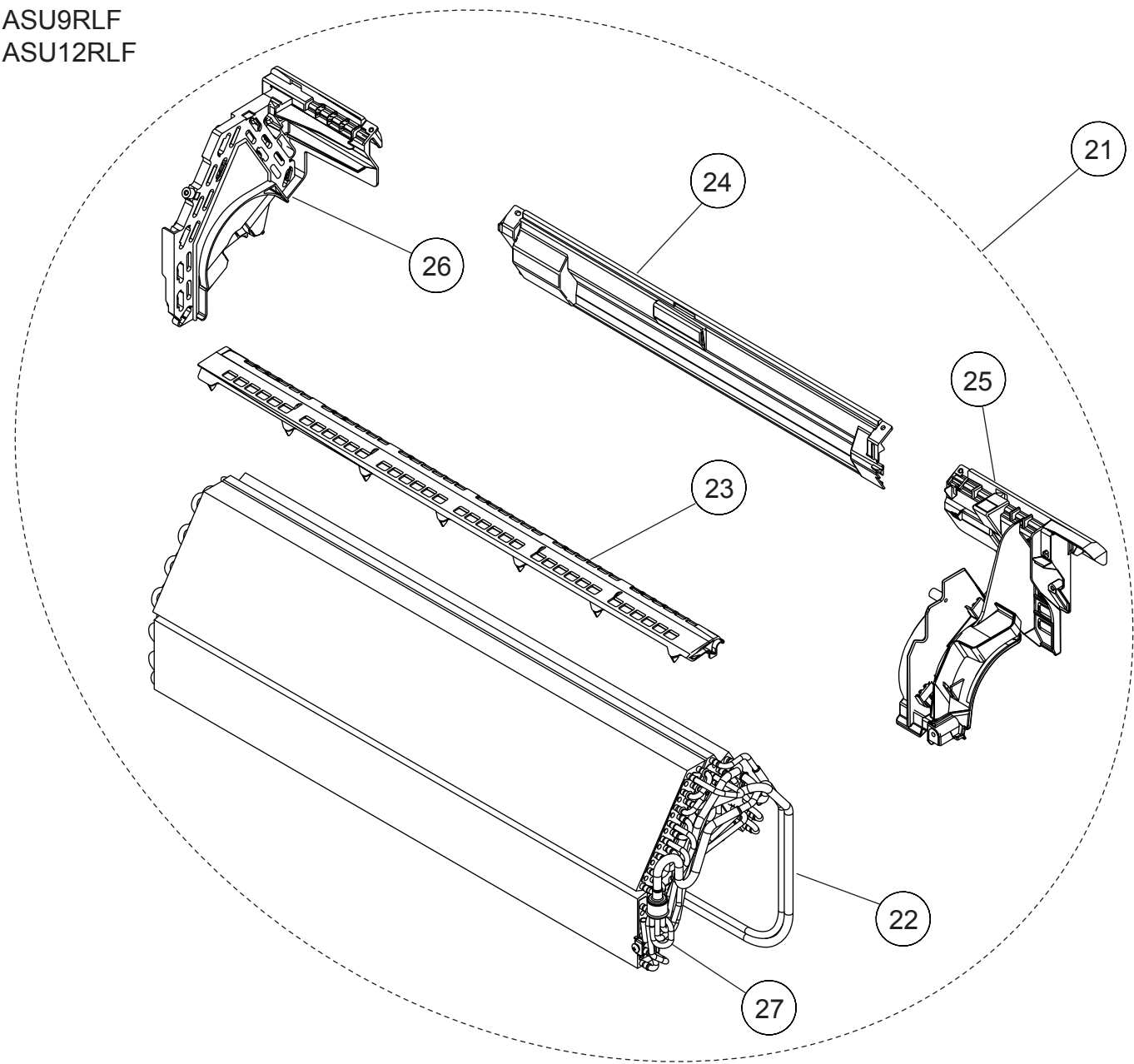
PARTS

INDOOR UNIT
COMPACT WALL MOUNTED
ASU7RLF
ASU9RLF
ASU12RLF

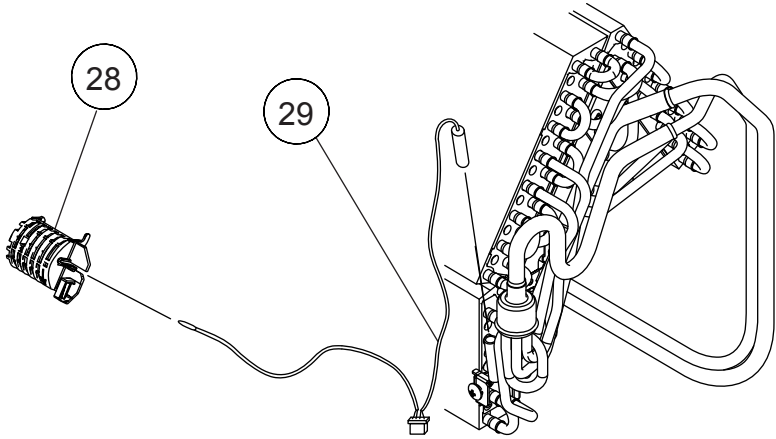


Ref	Description	Parts number
1	Front Panel Total Assy	9318267044
2	Front Panel	9317642057
3	Intake Grille	9318192025
4	Clamper Grille	9316906006
5	Air Filter	9317644013
6	Receiver Window	9317643016
7	Panel Cover	9317646017
8	Wire Cover	9317663014
9	Wire Shield	9317664011
10	Bracket Panel	9317665001
11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

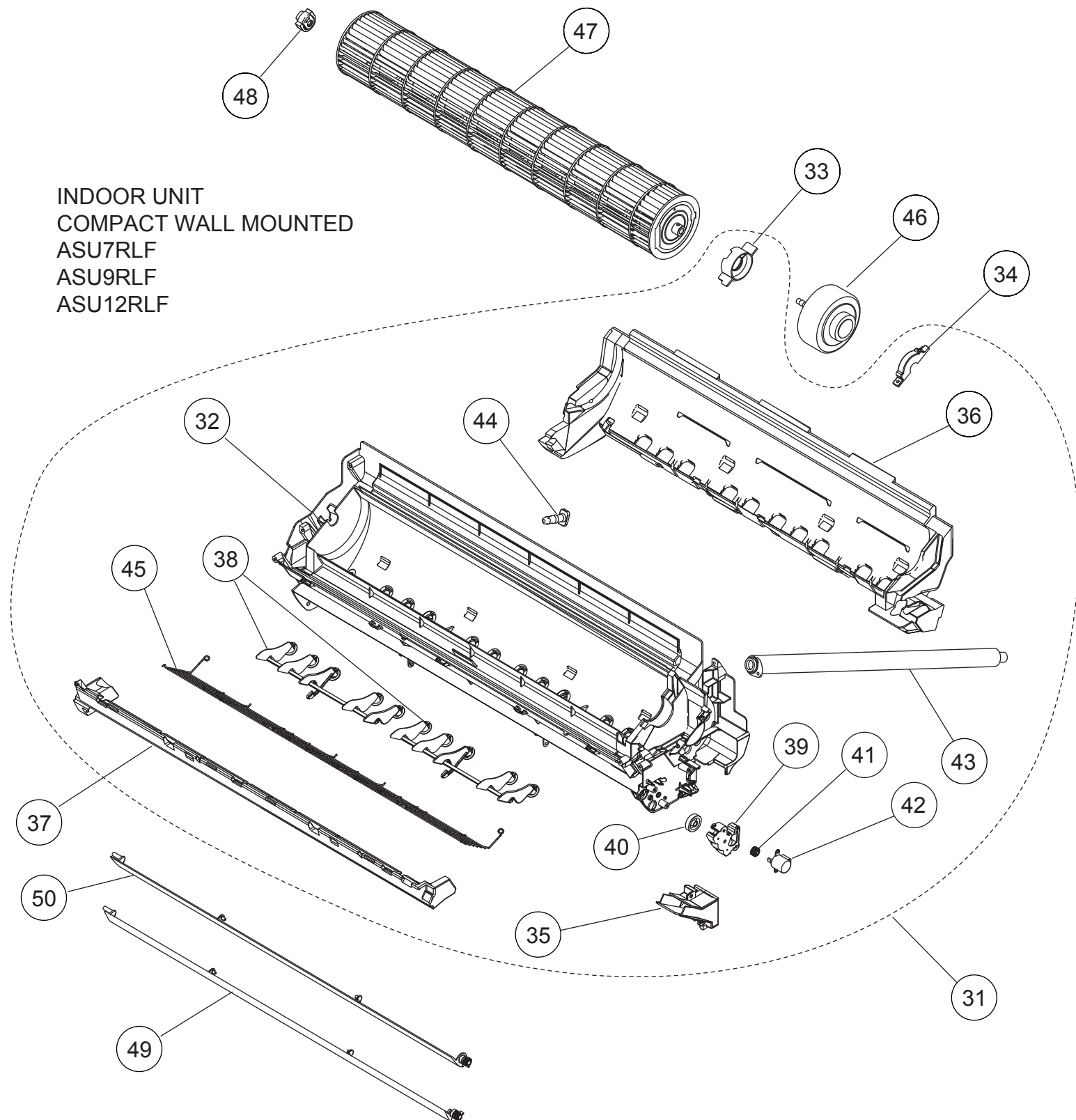
INDOOR UNIT
 COMPACT WALL MOUNTED
 ASU7RLF
 ASU9RLF
 ASU12RLF



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	

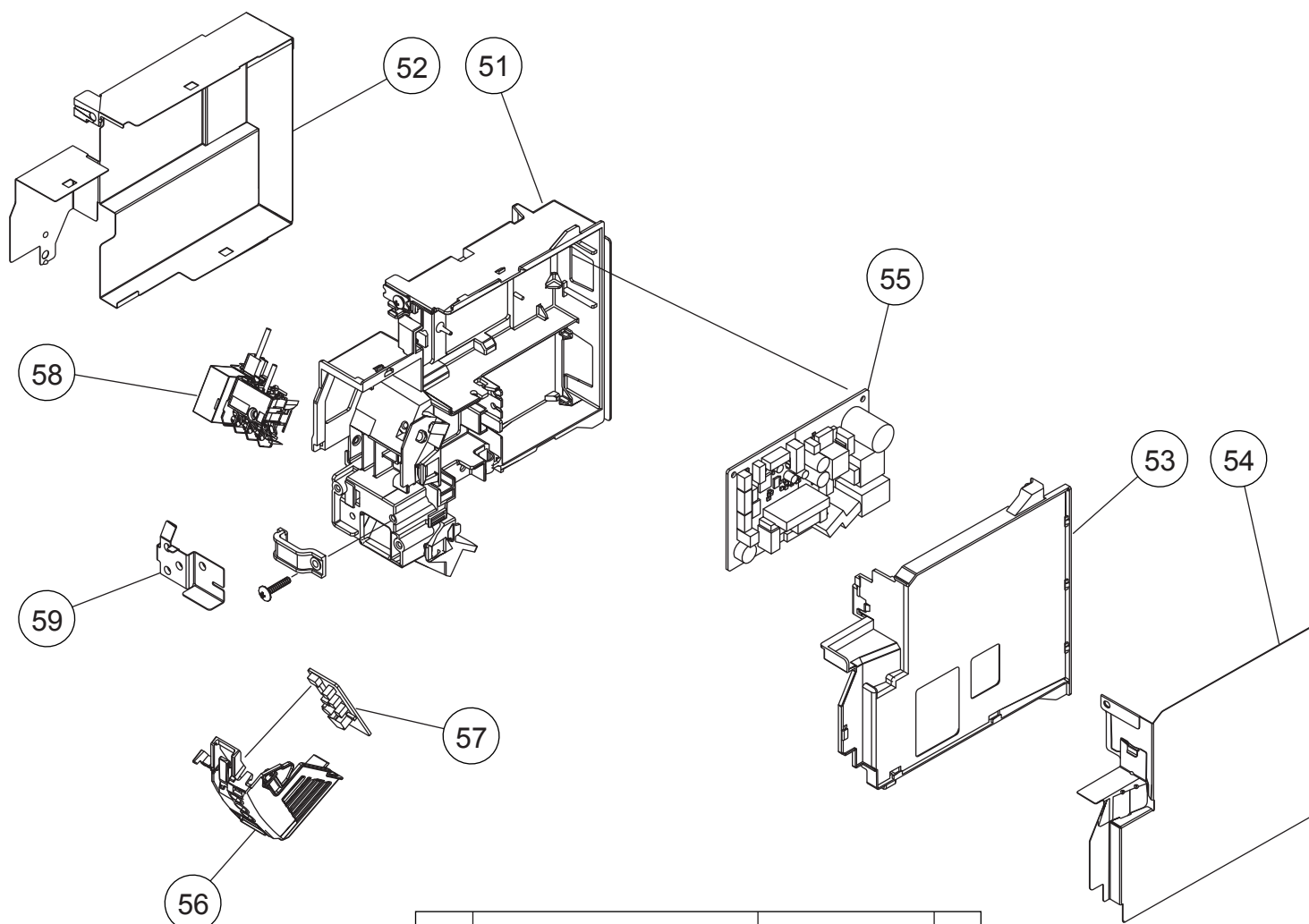


INDOOR UNIT
COMPACT WALL MOUNTED
ASU7RLF
ASU9RLF
ASU12RLF



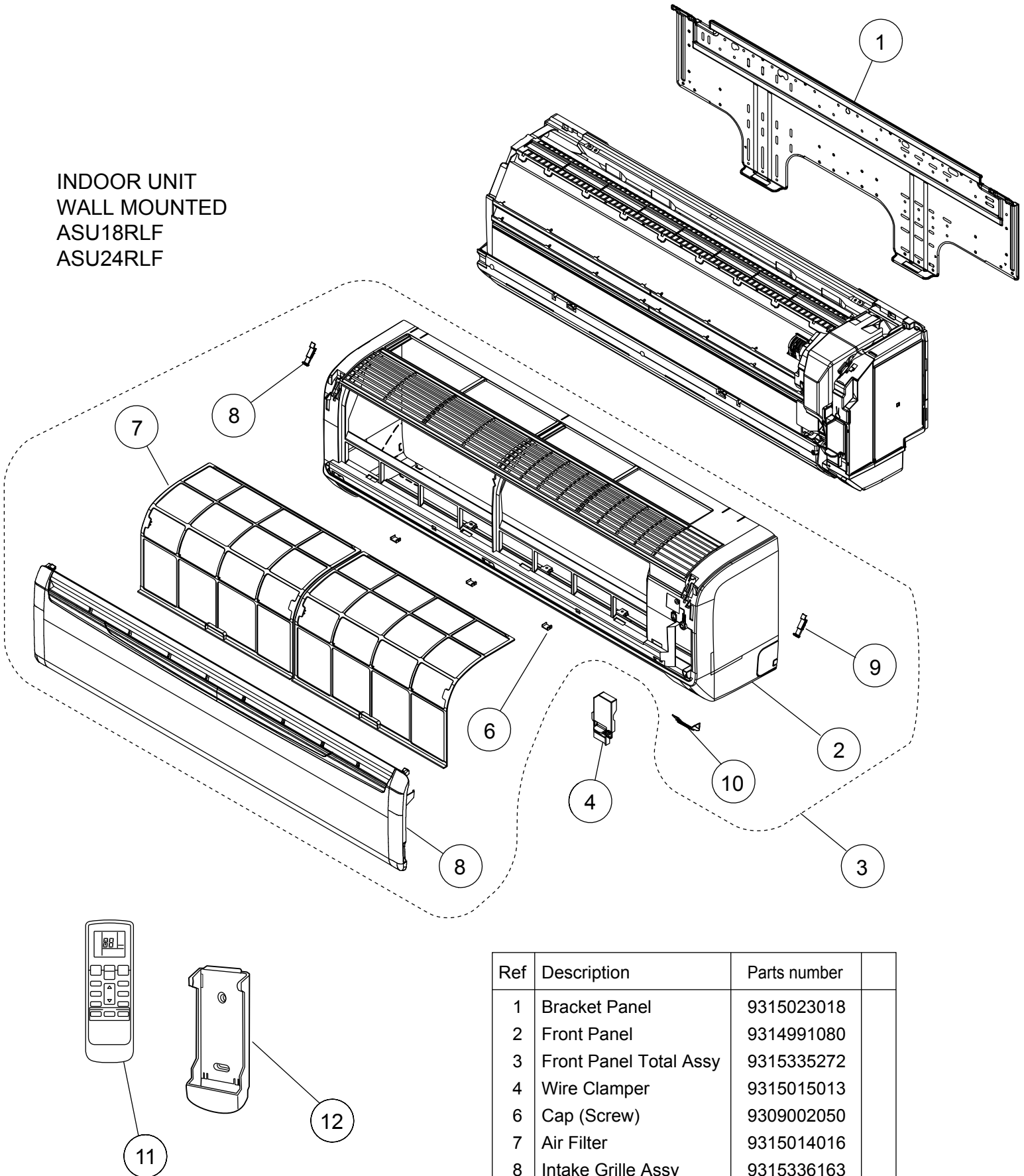
Ref	Description	Parts number	Ref	Description	Parts number
31	Casing Assy	9318264043	41	Gear A	9309994003
32	Casing	9317647014	42	Motor Step	9900384128
33	Motor Cover	9316568006	43	Drain Hose Assy	9316904002
34	Motor Cover	9316601000	44	Drain Cap	9316177017
35	Cable Guide	9317680011	45	Fan Guard	9332277005
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



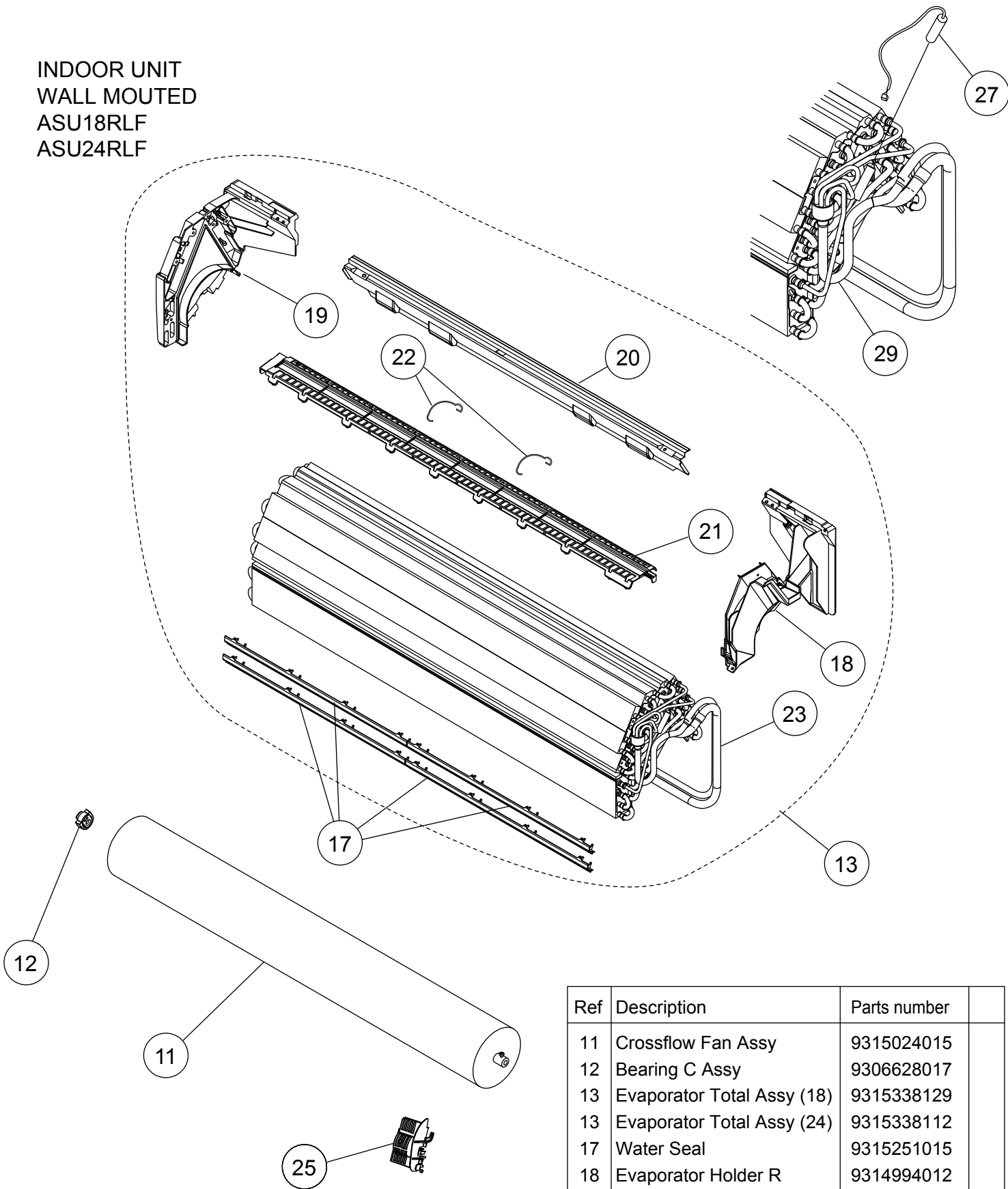
Ref	Description	Parts number	
51	Control Box	9318187014	
52	Box Shield	9317575010	
53	Control Cover	9317659024	
54	Cover Shield	9317923002	
55	Controller PCB Assy (7)	9708536019	
55	Controller PCB Assy (9)	9708536026	
55	Controller PCB Assy (12)	9708536033	
56	Display Case	9317662000	
57	Display PCB Assy	9707649024	
58	Terminal	9900529017	
59	Earth Terminal	9316586017	
--	Fuse 250V 3.15A	0600422011	

INDOOR UNIT
WALL MOUNTED
ASU18RLF
ASU24RLF



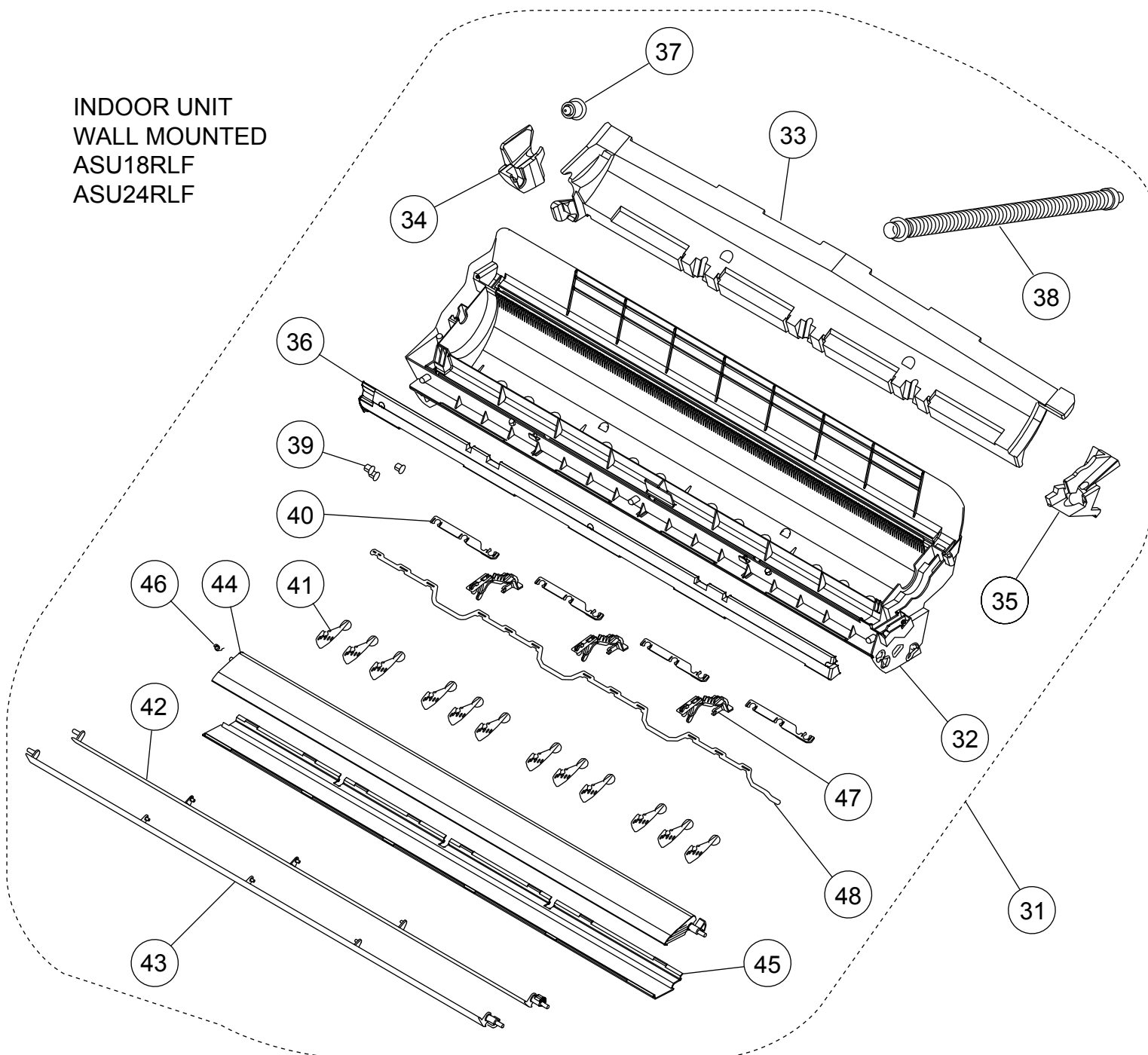
Ref	Description	Parts number	
1	Bracket Panel	9315023018	
2	Front Panel	9314991080	
3	Front Panel Total Assy	9315335272	
4	Wire Clamper	9315015013	
6	Cap (Screw)	9309002050	
7	Air Filter	9315014016	
8	Intake Grille Assy	9315336163	
9	Clamper Grille	9306755010	
10	Receiver Window	9315010018	
11	Remote Control	9379219013	
12	Remote Control Holder	9305642045	
--	Air Clean Filter Assy	9315212016	

INDOOR UNIT
WALL MOUTED
ASU18RLF
ASU24RLF



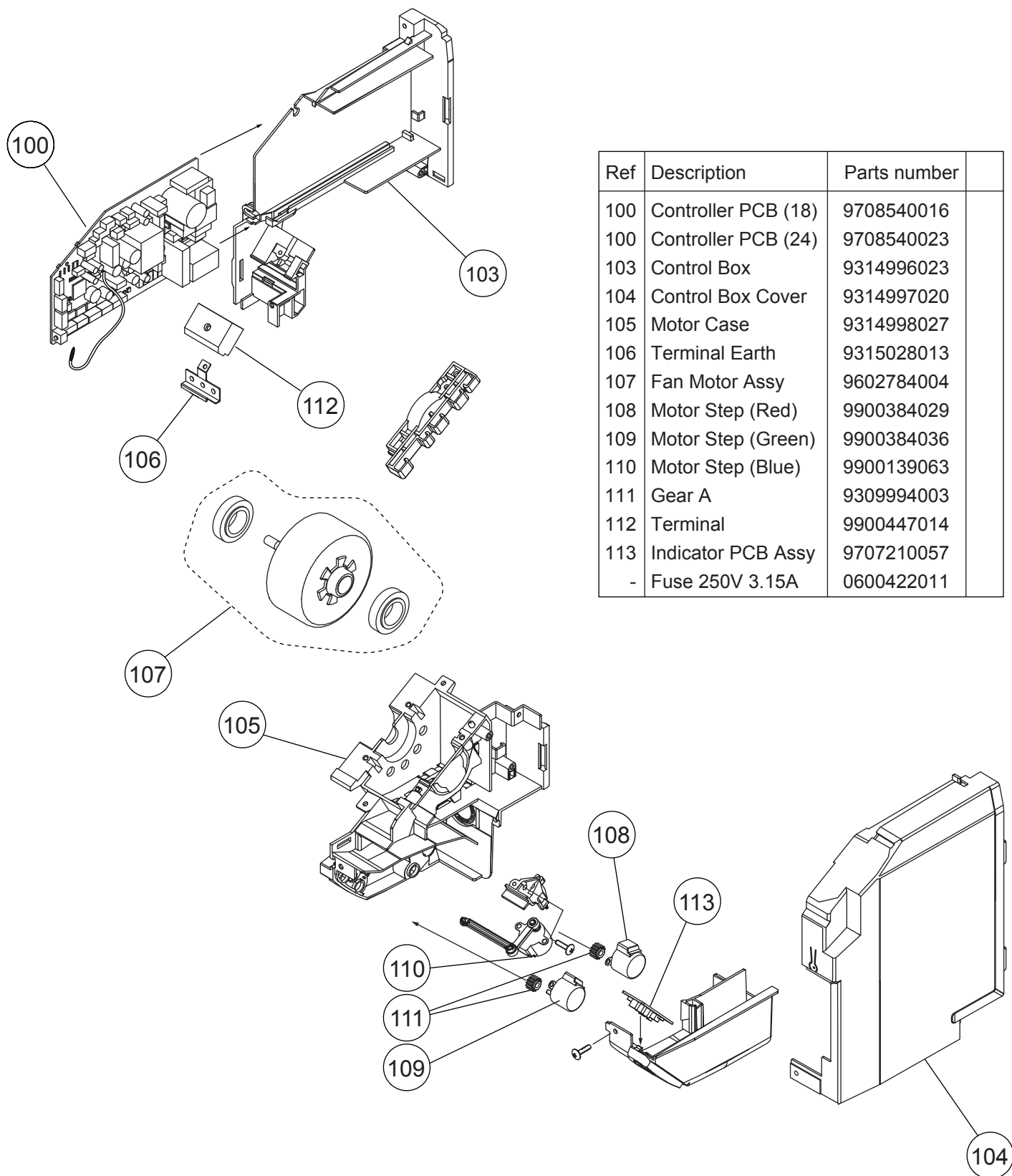
Ref	Description	Parts number	
11	Crossflow Fan Assy	9315024015	
12	Bearing C Assy	9306628017	
13	Evaporator Total Assy (18)	9315338129	
13	Evaporator Total Assy (24)	9315338112	
17	Water Seal	9315251015	
18	Evaporator Holder R	9314994012	
19	Evaporator Holder L	9314995019	
20	Rear Bracket	9315022011	
21	Filter Guide	9315013019	
22	Filter Guard	9315411013	
23	Connection Pipe Assy (18)	9315355041	
23	Connection Pipe Assy (24)	9315355058	
25	Holder (Room Thermistor)	9315252012	
27	Thermistor (Pipe)	9900551018	
29	Distributor Assy	9316988019	

INDOOR UNIT
WALL MOUNTED
ASU18RLF
ASU24RLF



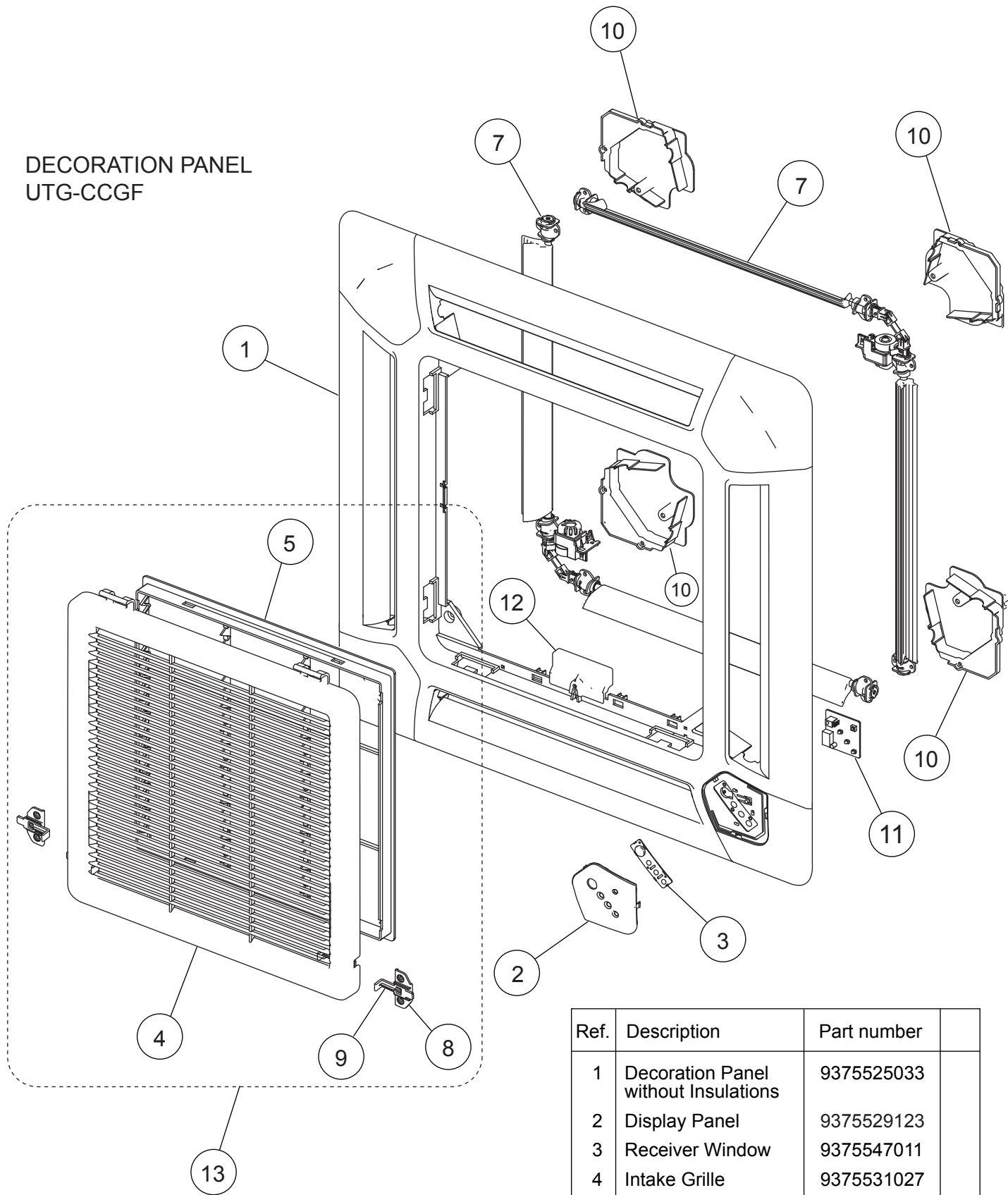
Ref	Description	Parts number		Ref	Description	Parts number	
31	Casing Assy	9315331045		42	Louver U	9315000019	
32	Casing	9314993015		43	Louver Z	9315001016	
33	Casing Cover B	9315016010		44	Diffuser U	9315002013	
34	Casing Cover L	9315017017		45	Diffuser Z	9315003010	
35	Casing Cover R	9315018014		46	Spring C	9314142017	
36	Casing Cover F	9315019011		47	Pillar A	9315009012	
37	Drain Cap	9367677009		48	Joint B	9315006011	
38	Drain Hose Assy	9315769015		-	Fan Guard	9305751051	
39	Bush B	9312156016		-	Fan Guard Holder Right	9315814012	
40	Spacer B	9312441013		-	Fan Guard Holder Left	9315815019	
41	R and L Louver	9311997016					

INDOOR UNIT
WALL MOUNTED
ASU18RLF
ASU24RLF



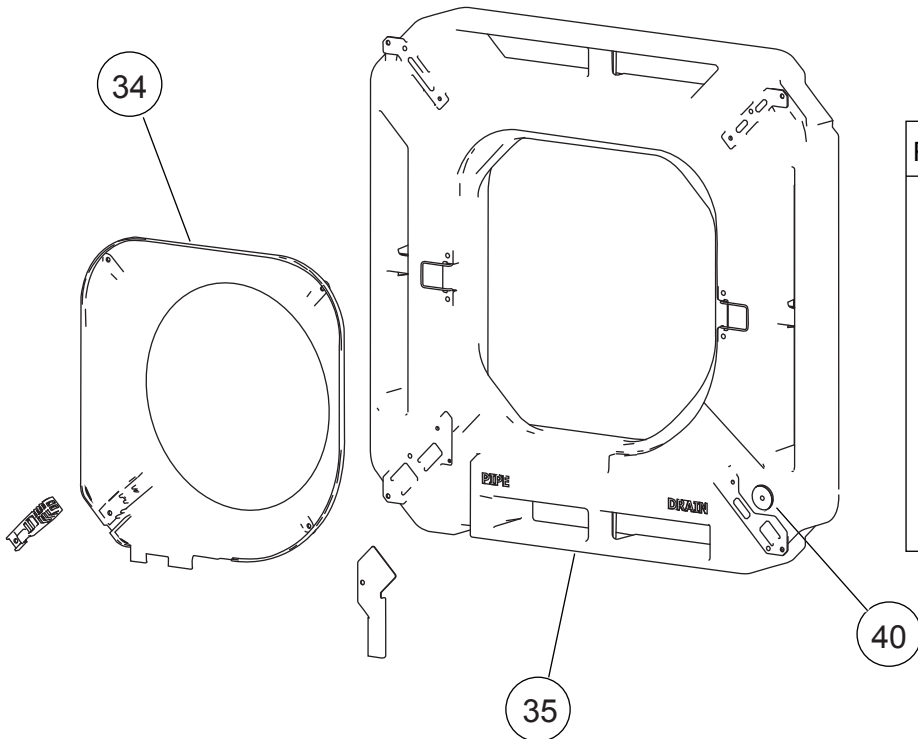
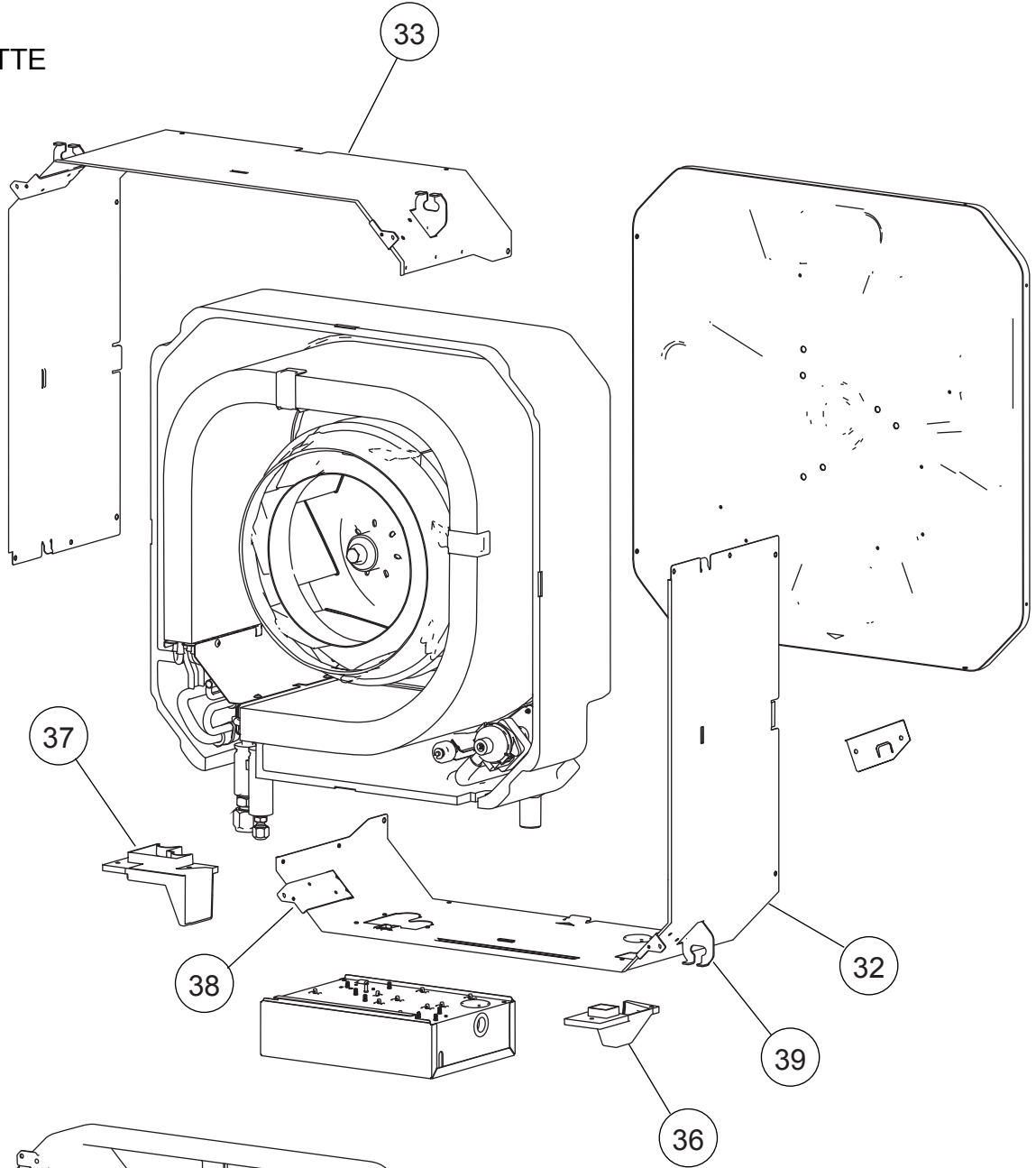
Ref	Description	Parts number	
100	Controller PCB (18)	9708540016	
100	Controller PCB (24)	9708540023	
103	Control Box	9314996023	
104	Control Box Cover	9314997020	
105	Motor Case	9314998027	
106	Terminal Earth	9315028013	
107	Fan Motor Assy	9602784004	
108	Motor Step (Red)	9900384029	
109	Motor Step (Green)	9900384036	
110	Motor Step (Blue)	9900139063	
111	Gear A	9309994003	
112	Terminal	9900447014	
113	Indicator PCB Assy	9707210057	
-	Fuse 250V 3.15A	0600422011	

DECORATION PANEL
UTG-CCGF



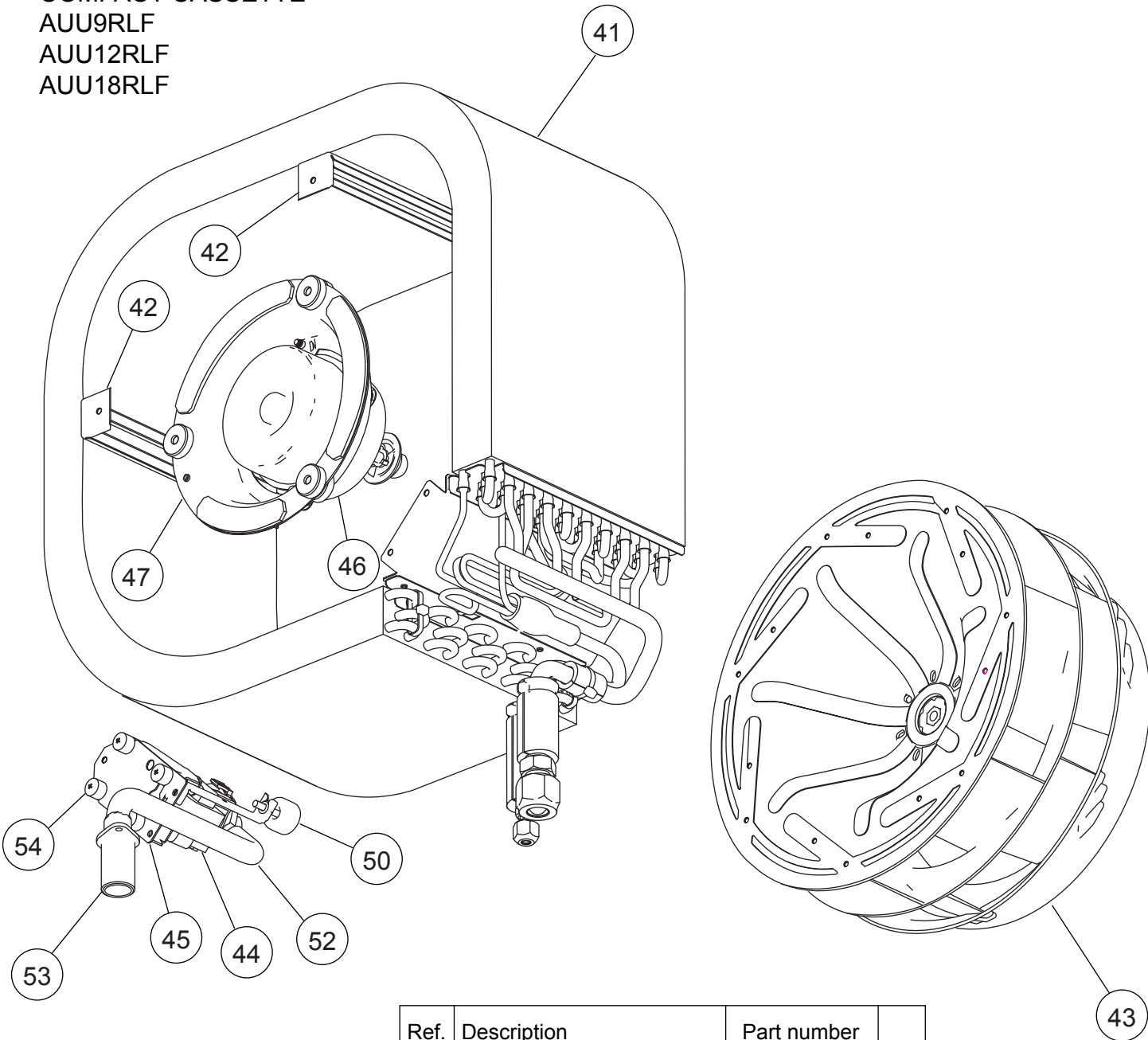
Ref.	Description	Part number	
1	Decoration Panel without Insulations	9375525033	
2	Display Panel	9375529123	
3	Receiver Window	9375547011	
4	Intake Grille	9375531027	
5	Long Life Filter	9375533014	
7	Flap Total Assy	9377760029	
8	Hook Bracket	9375546014	
9	Grille Hook	9375532024	
10	Panel Cover without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

INDOOR UNIT
COMPACT CASSETTE
AUU9RLF
AUU12RLF
AUU18RLF



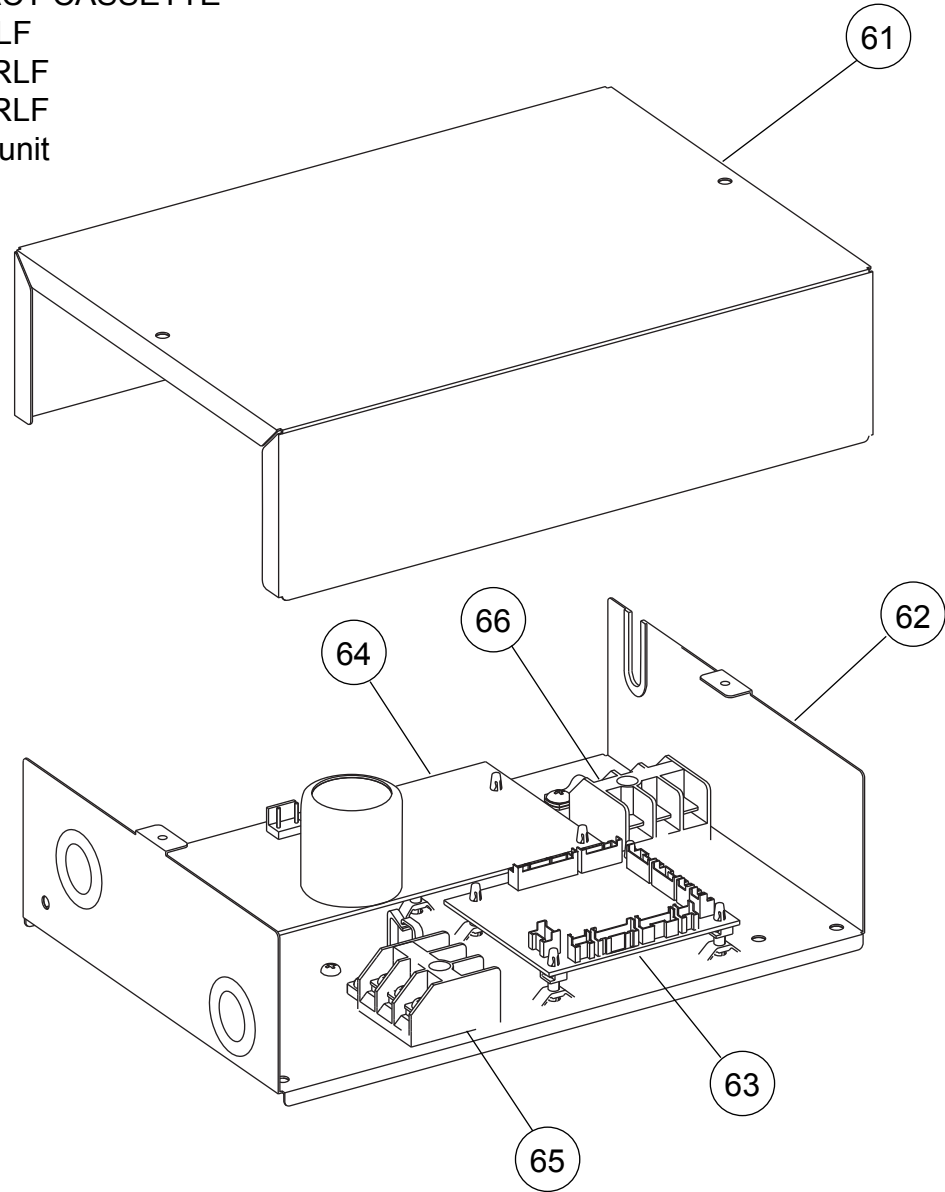
Ref.	Description	Part number	
32	Cabinet A Assy	9375492014	
33	Cabinet B	9375494018	
34	Bell Mouse	9375503017	
35	Drain Pan Sub Assy	9377765024	
36	Wire Cover	9375516017	
37	Pipe Cover	9375515027	
38	Hook R	9375504014	
39	Hook L	9375505011	
40	Drain Cap	9375502010	

INDOOR UNIT
COMPACT CASSETTE
AUU9RLF
AUU12RLF
AUU18RLF

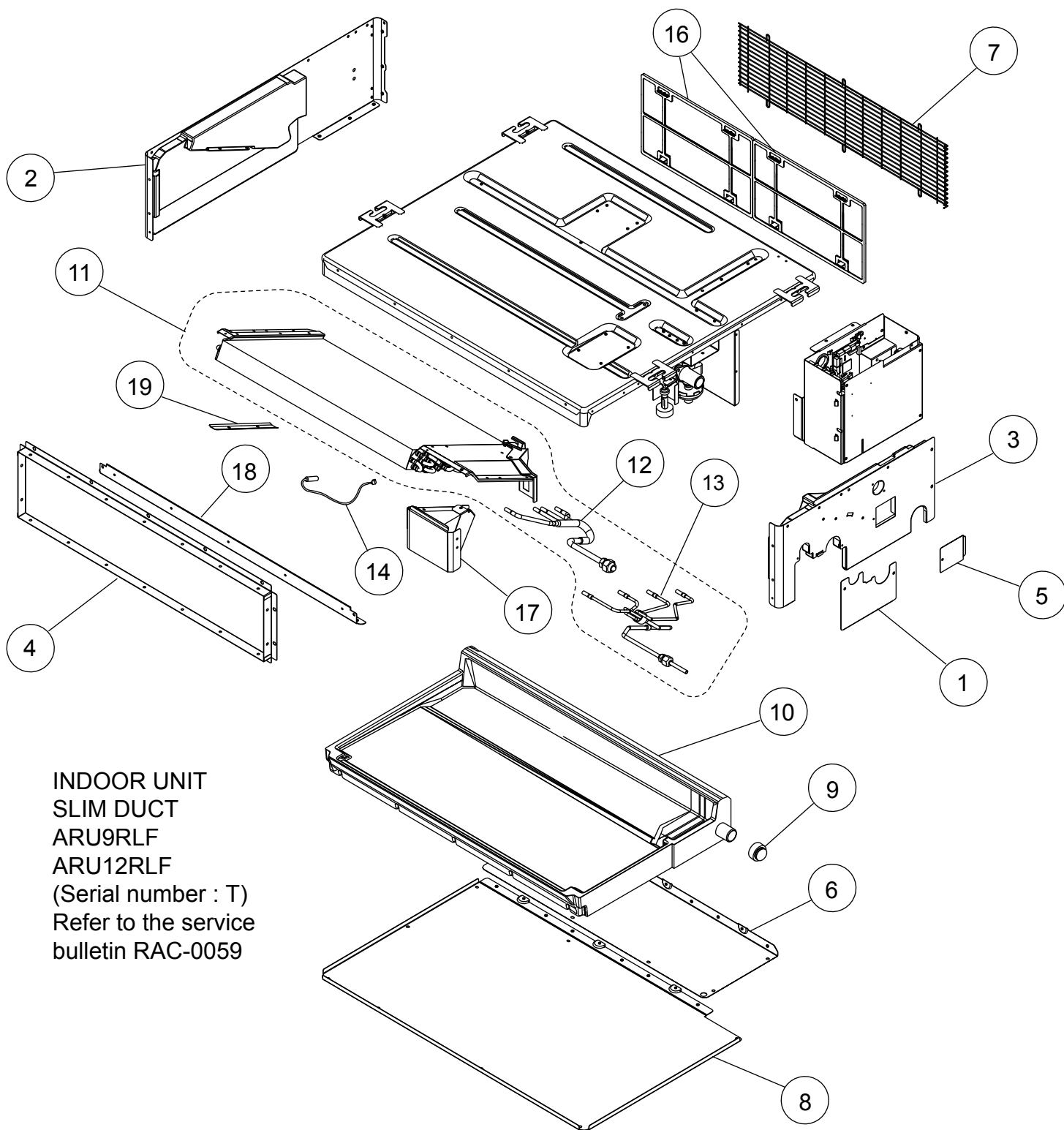


Ref.	Description	Part number	
41	Evaporator Total Assy (09, 12)	9377914033	
41	Evaporator Total Assy (18)	9377914026	
42	Evaporator Holder	9375508012	
43	2 Stage Turbo Fan Assy	9375480011	
44	Pump Assy	9900472030	
45	Drain Pump Holder B	9375518011	
46	Fan Motor	9602870004	
47	Fan Motor Holder	9375552015	
50	Float Switch	9900361037	
52	Drain Hose	9375519018	
53	Drain Port	9375520014	
54	Rubber (Pump)	9378426016	

INDOOR UNIT
 COMPACT CASSETTE
 AUU9RLF
 AUU12RLF
 AUU18RLF
 Control unit



Ref.	Description	Part number	
61	Control Box Cover	9375512019	
62	Control Box A Assy	9379250016	
63	Controller PCB Assy (09)	9707393668	
63	Controller PCB Assy (12)	9707393712	
63	Controller PCB Assy (18)	9707393729	
64	Power Supply PCB Assy	9707398236	
65	Terminal	9306489045	
66	Terminal	9703345012	
--	Pipe Thermistor	9703297014	
--	Room Thermistor	9900502003	
--	Remote Control	9318593006	
--	FUSE 250V 3.15A	0600466015	

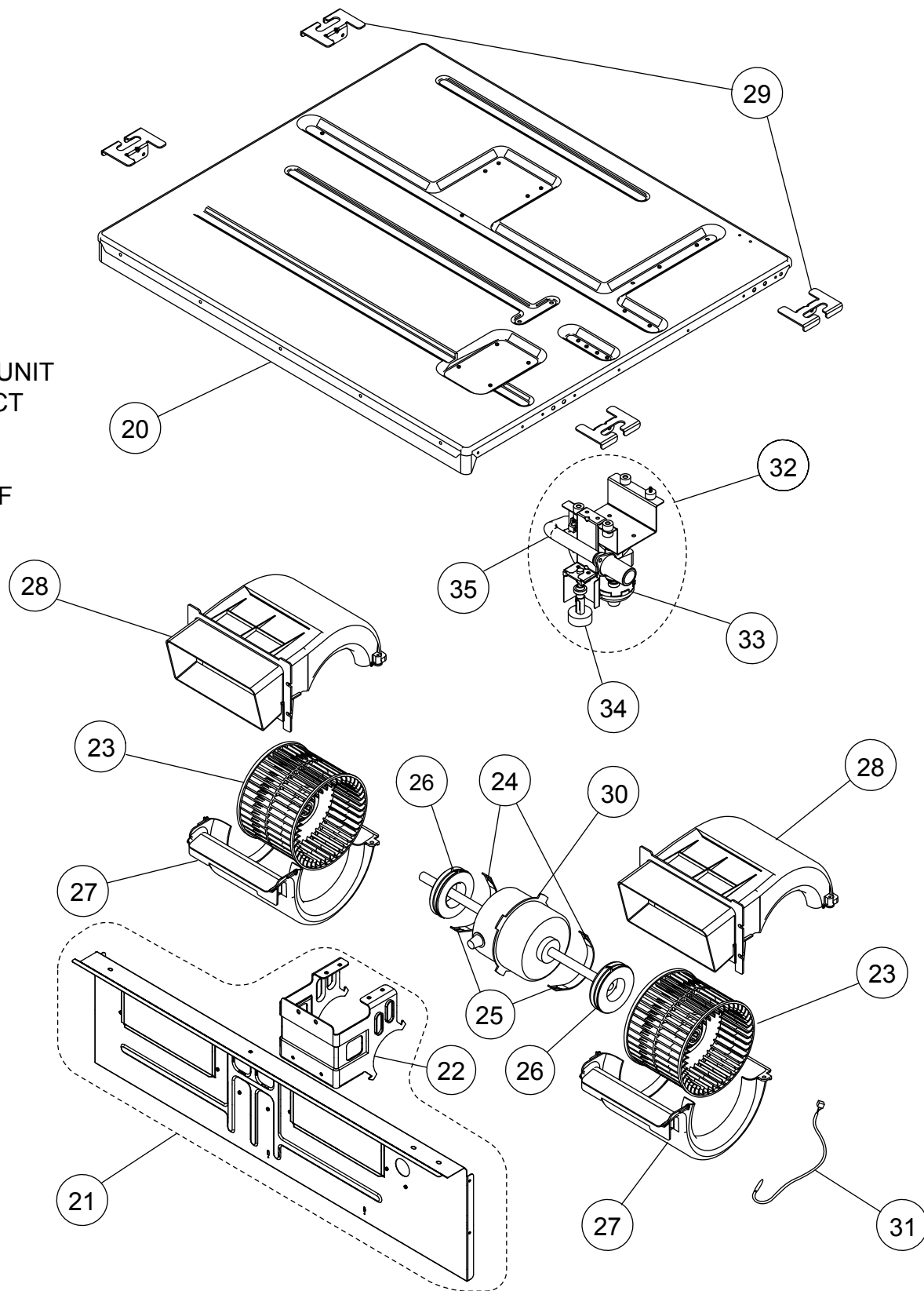


INDOOR UNIT
SLIM DUCT
ARU9RLF
ARU12RLF
(Serial number : T)
Refer to the service
bulletin RAC-0059

Ref	Description	Parts number	Ref	Description	Parts number
1	Pipe Panel Sub Assy	9379900003	11	Evaporater Total Assy	9364499581
2	Side Panel R Sub Assy	9379906005	11	Evaporator Assy	9372972076
3	Side Panel L Sub Assy	9379907002	12	Coupling Pipe Assy	9373038764
4	Outlet Frame Sub Assy	9379909006	13	Distributor Assy	9373034384
5	Panel (Window) Sub Assy	9379915007	14	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
(Type: T)

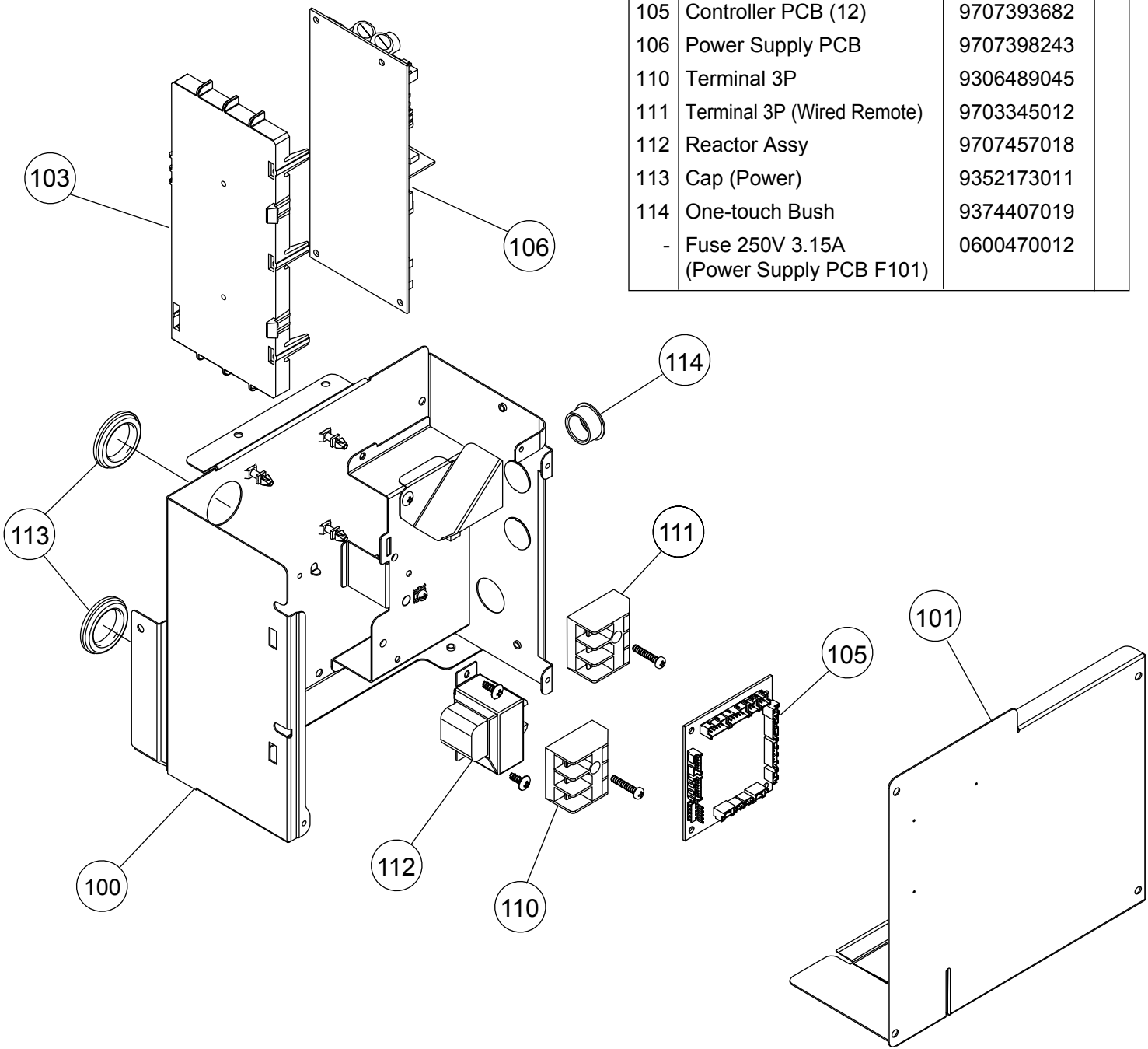
ARU9RLF
ARU12RLF

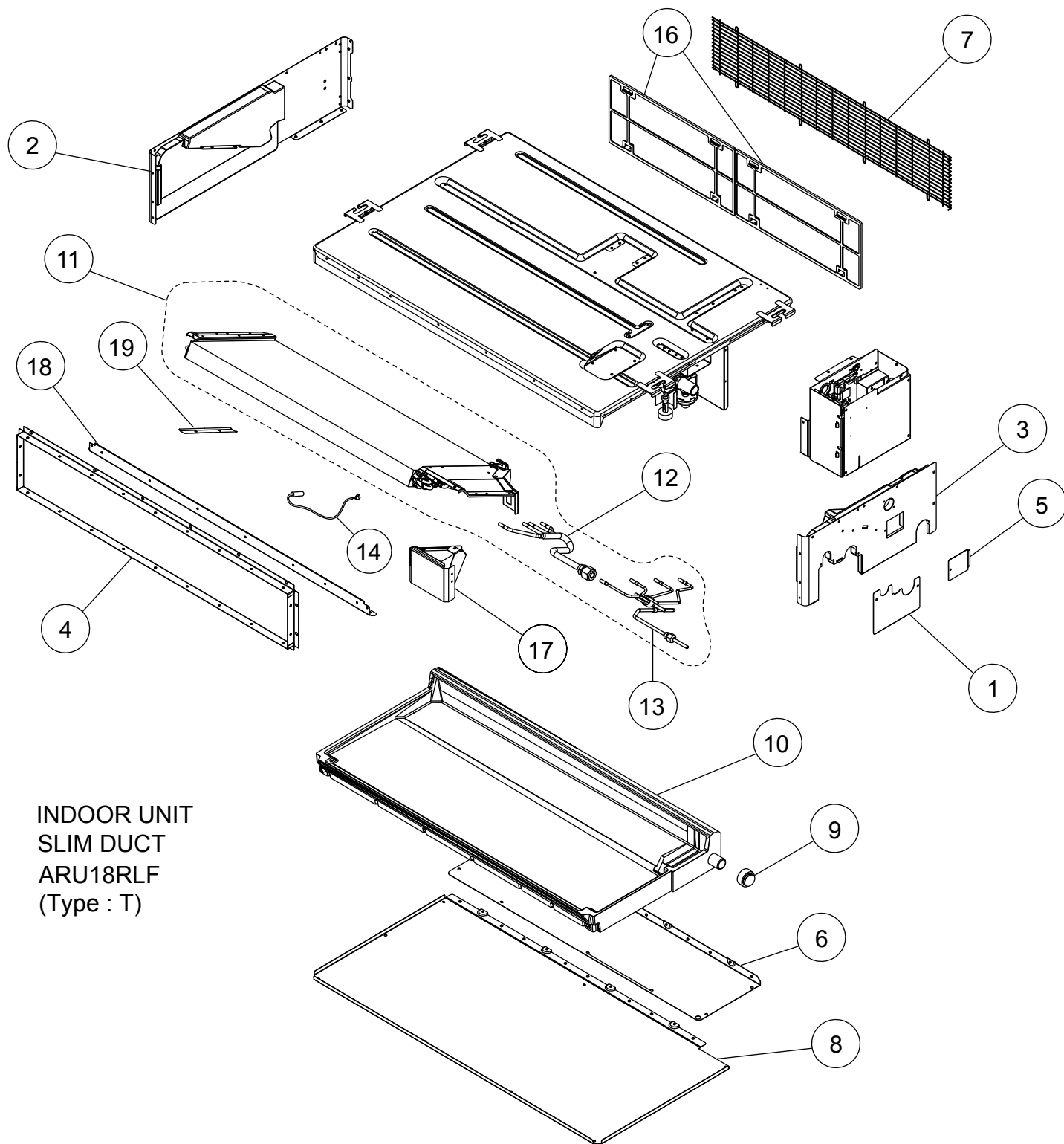


Ref	Description	Parts number		Ref	Description	Parts number	
20	Top Panel Sub Assy	9379908009		28	Casing U	9379571005	
21	Separator Sub Assy	9379898003		29	Hook Metal	9379889001	
22	Motor Mount	9379612005		30	Fan Motor Assy	9602967018	
23	Sirroco Fan Assy	9379570015		31	Thermistor (Room)	9703299247	
24	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
(Type : T)

Ref	Description	Parts number	
100	Control Box Assy	9380041016	
101	Control Cover Sub Assy	9379806022	
103	PCB Holder	9379402019	
105	Controller PCB (9)	9707393675	
105	Controller PCB (12)	9707393682	
106	Power Supply PCB	9707398243	
110	Terminal 3P	9306489045	
111	Terminal 3P (Wired Remote)	9703345012	
112	Reactor Assy	9707457018	
113	Cap (Power)	9352173011	
114	One-touch Bush	9374407019	
-	Fuse 250V 3.15A (Power Supply PCB F101)	0600470012	



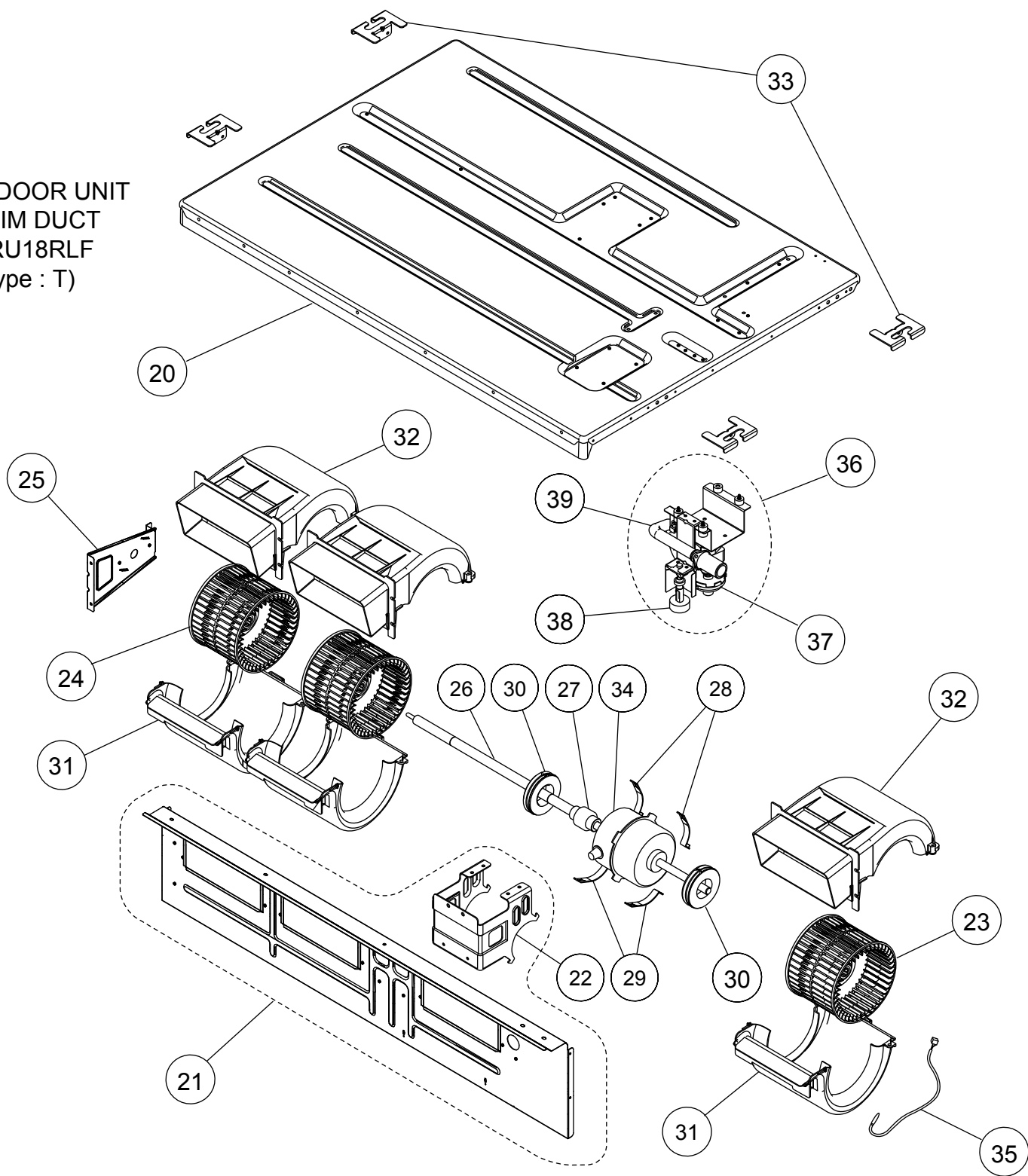


INDOOR UNIT
SLIM DUCT
ARU18RLF
(Type : T)

Ref	Description	Parts number	
1	Pipe Panel Sub Assy	9379900003	
2	Side Panel R Sub Assy	9379906005	
3	Side Panel L Sub Assy	9379907002	
4	Outlet Frame Sub Assy	9379909013	
5	Panel (Window) Sub Assy	9379915007	
6	Cabinet Panel (3 Fan)	9379597005	
7	Fan Guard (3 Fan)	9379638005	
8	Main Panel Sub Assy	9379902014	
9	Cap (Drain)	9358746004	
10	Drain Pan Sub Assy	9379901017	

Ref	Description	Parts number	
11	Evaporator Total Assy	9364499604	
11	Evaporator Assy	9372972083	
12	Coupling Pipe Assy	9373038788	
13	Distributor Assy	9373034384	
14	Thermistor (Pipe)	9900498085	
16	Air Filter	9379575003	
17	Valve Cover Sub Assy	9379576000	
18	Front Panel (3 Fan)	9379594004	
19	Cover Pipe Sub Assy	9380033004	

INDOOR UNIT
SLIM DUCT
ARU18RLF
(Type : T)

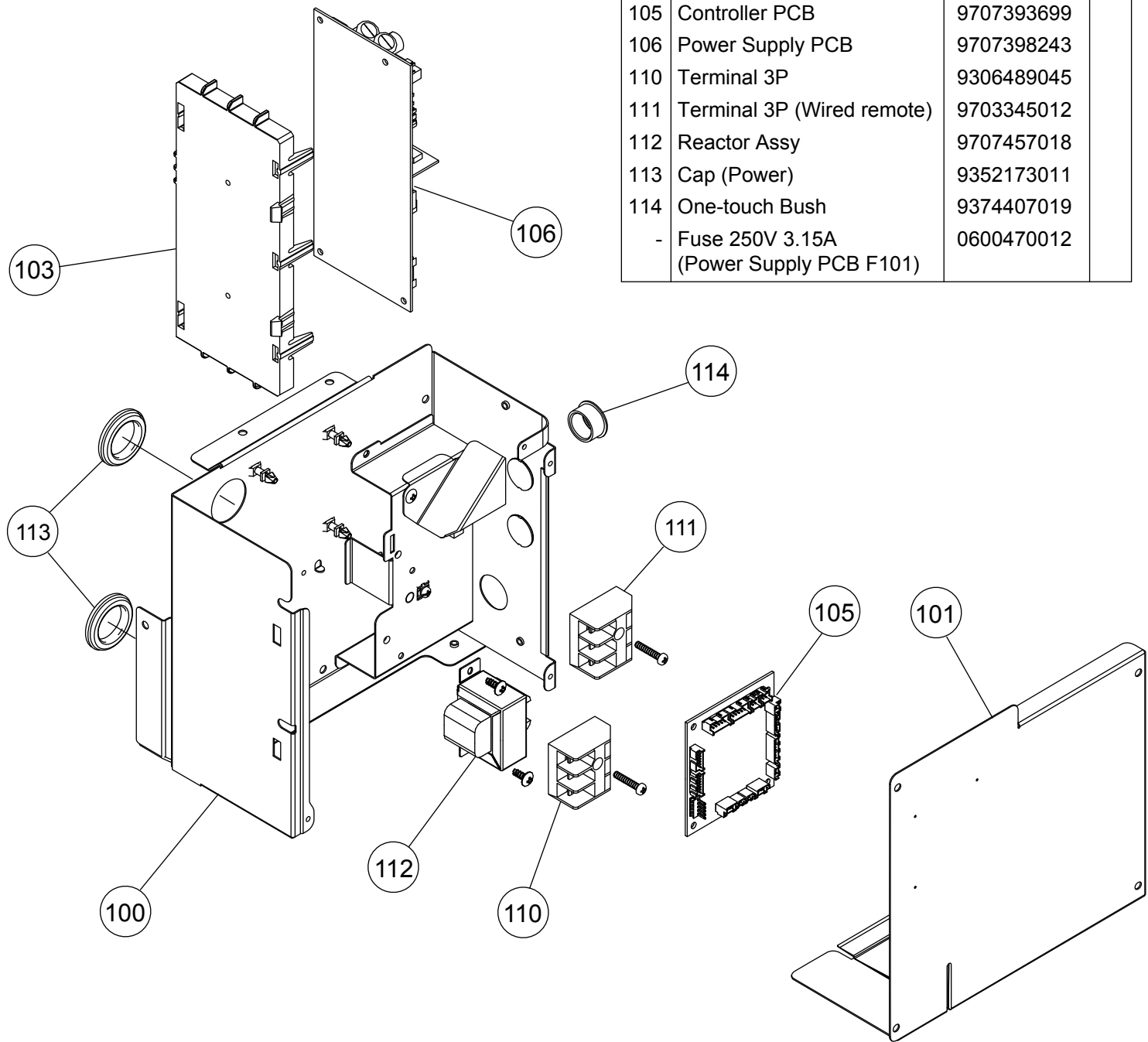


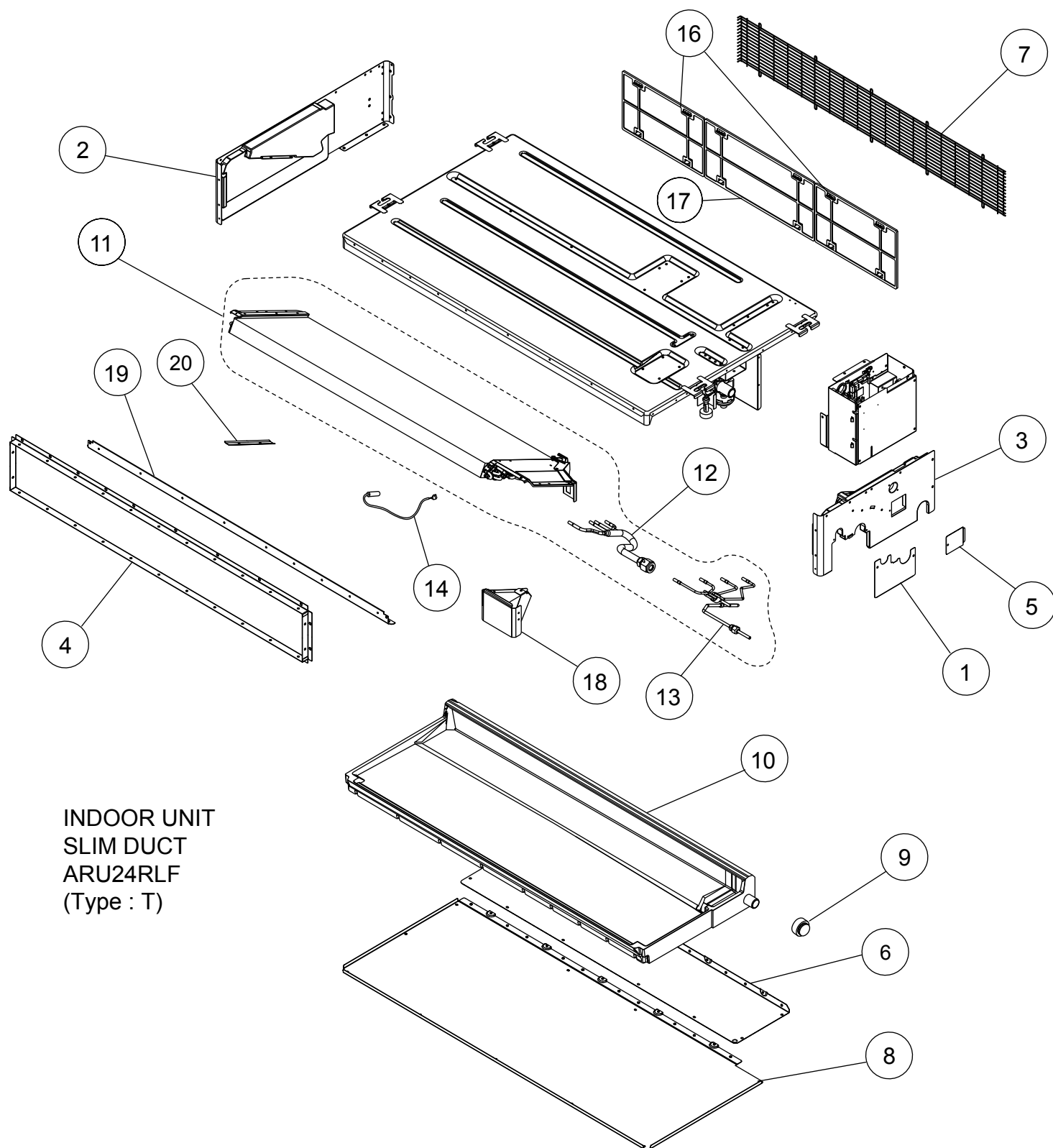
Ref	Description	Parts number	
20	Top Panel Sub Assy	9379908016	
21	Separator Sub Assy	9379898010	
22	Motor Mount	9379612005	
23	Sirroco Fan Assy	9379570022	
24	Sirroco Fan Assy	9379570039	
25	Bracket (Bearing Sub Assy)	9379627009	
26	Shaft Assy	9379805001	
27	Joint Assy	9378038011	
28	Motor Band Assy	9379613002	
29	Motor Band	9379614009	

Ref	Description	Parts number	
30	Rubber (Vibration Proof)	9379644006	
31	Casing B	9379572002	
32	Casing U	9379571005	
33	Hook Metal	9379889001	
34	Fan Motor Assy	9602968015	
35	Thermistor (Room)	9703299247	
36	Drain Pump Sub Assy	9379914000	
37	Pump Assy	9900472047	
38	Float Switch	9900465032	
39	Drain Hose Assy	9379913003	

INDOOR UNIT
SLIM DUCT
ARU18RLF
(Type : T)

Ref	Description	Parts number	
100	Control Box Assy	9380041016	
101	Control Cover Sub Assy	9379806022	
103	PCB Holder	9379402019	
105	Controller PCB	9707393699	
106	Power Supply PCB	9707398243	
110	Terminal 3P	9306489045	
111	Terminal 3P (Wired remote)	9703345012	
112	Reactor Assy	9707457018	
113	Cap (Power)	9352173011	
114	One-touch Bush	9374407019	
-	Fuse 250V 3.15A (Power Supply PCB F101)	0600470012	

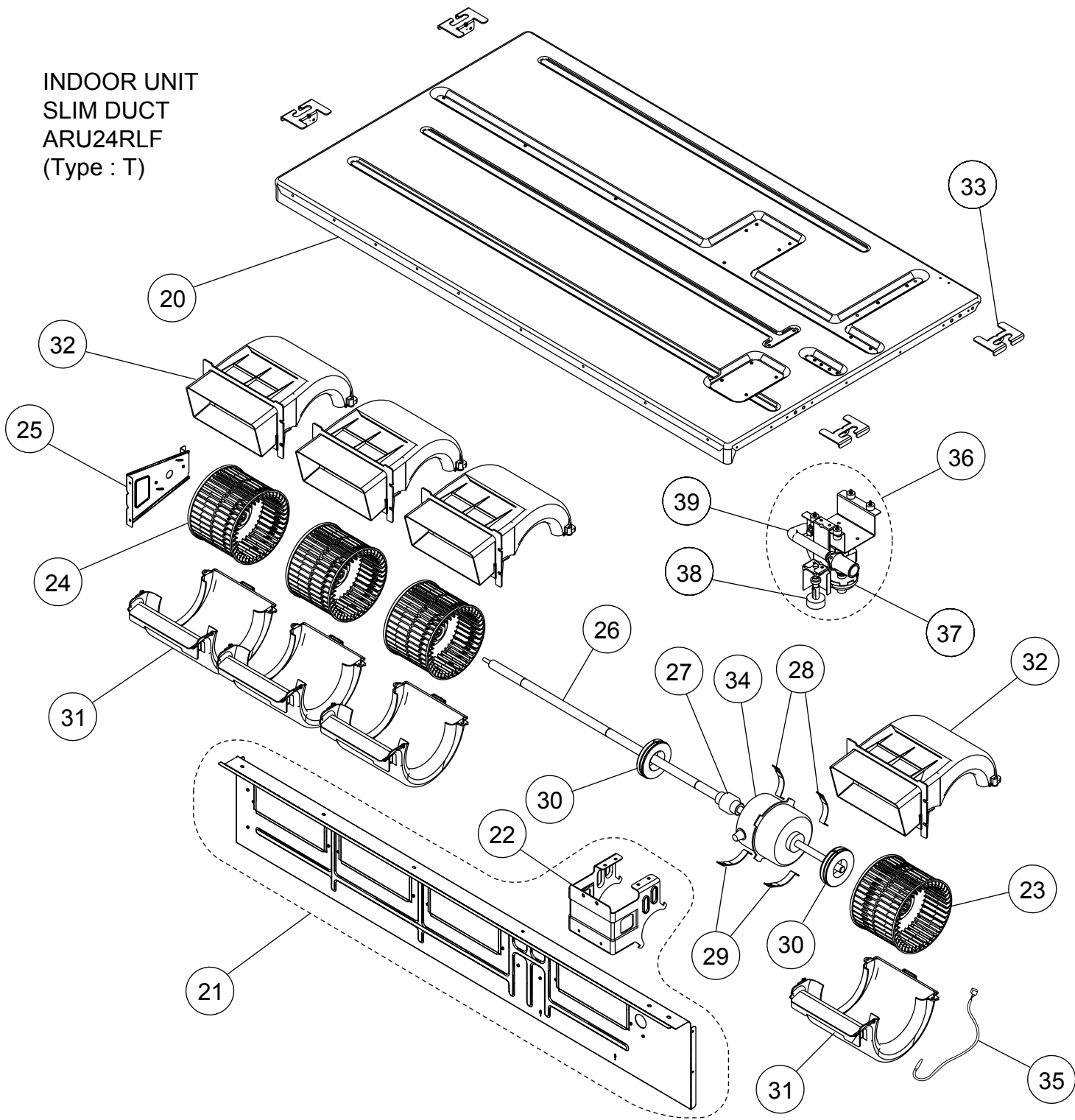




INDOOR UNIT
SLIM DUCT
ARU24RLF
(Type : T)

Ref	Description	Parts number		Ref	Description	Parts number	
1	Pipe Panel Sub Assy	9379900003		11	Evaporator Total Assy	9364499611	
2	Side Panel R Sub Assy	9379906005		11	Evaporator Assy	9372972090	
3	Side Panel L Sub Assy	9379907002		12	Coupling Pipe Assy	9373038795	
4	Outlet Frame Sub Assy	9379909020		13	Distributor Assy	9373034384	
5	Panel (Window) Sub Assy	9379915007		14	Thermistor (Pipe)	9900498085	
6	Cabinet Panel (4 Fan)	9379598002		16	Air Filter	9379574006	
7	Fan Guard (4 Fan)	9379639002		17	Air Filter	9379575003	
8	Main Panel Sub Assy	9379902021		18	Valve Cover Sub Assy	9379576000	
9	Cap (Drain)	9358746004		19	Front Panel (4 Fan)	9379595001	
10	Drain Pan Sub Assy	9379901024		20	Cover Pipe Sub Assy	9380033004	

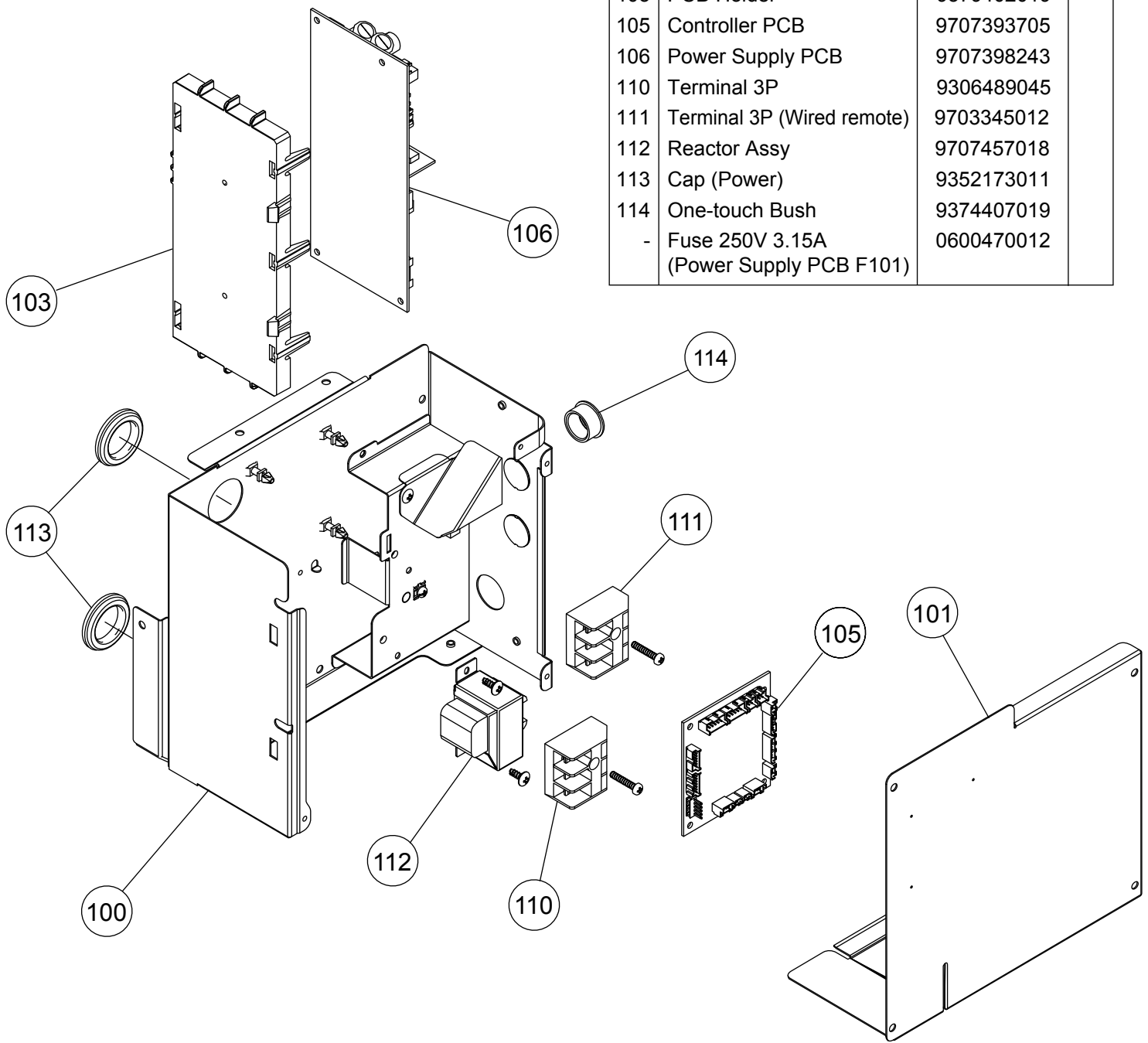
INDOOR UNIT
SLIM DUCT
ARU24RLF
(Type : T)



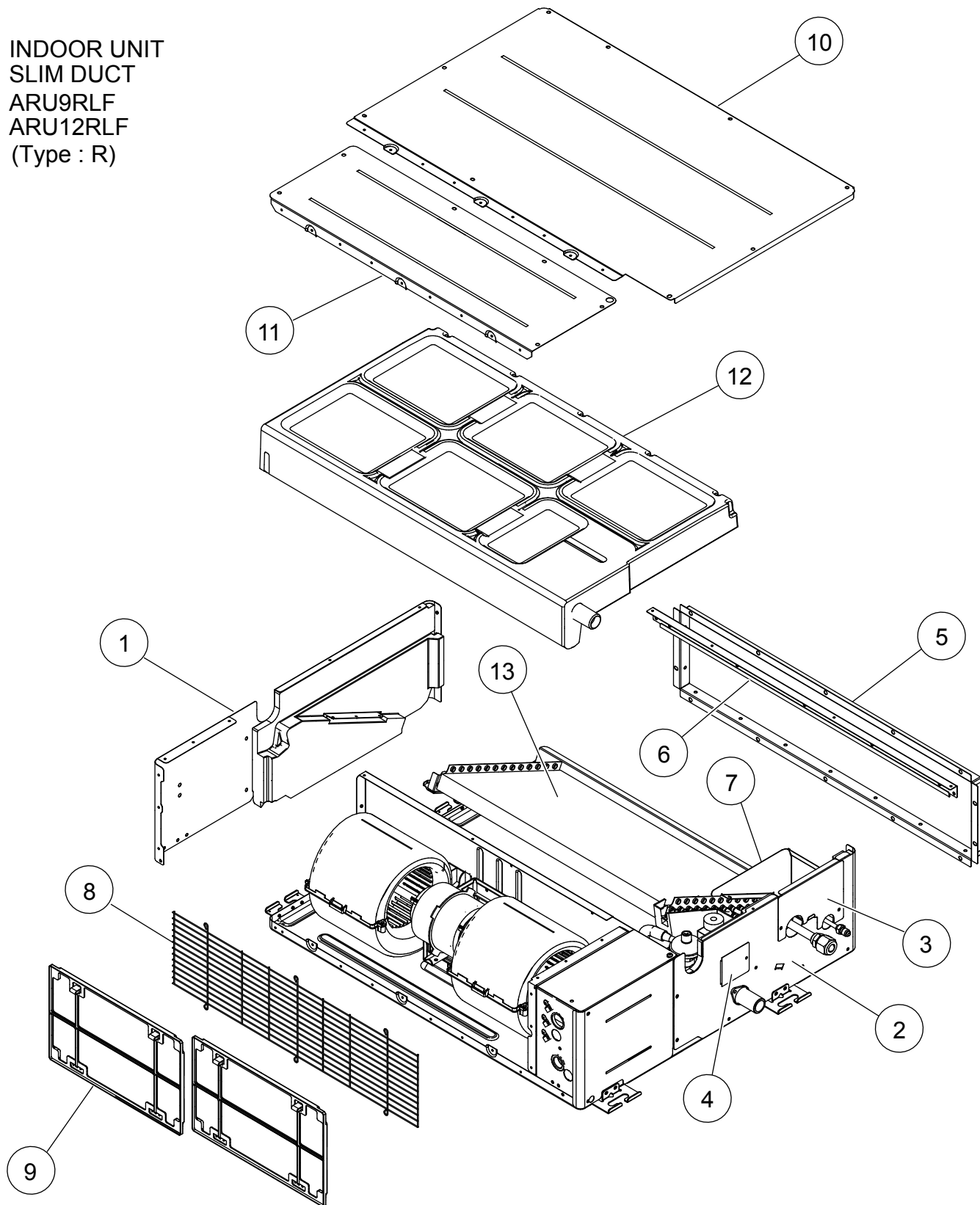
Ref	Description	Parts number	Ref	Description	Parts number
20	Top Panel Sub Assy	9379908023	30	Rubber (Vibration Proof)	9379644006
21	Separator Sub Assy	9379898027	31	Casing B	9379572002
22	Motor Mount	9379612005	32	Casing U	9379571005
23	Sirroco Fan Assy	9379570022	33	Hook Metal	9379889001
24	Sirroco Fan Assy	9379570039	34	Fan Motor Assy	9602968015
25	Bracket (Bearing Sub Assy)	9379627009	35	Thermistor (Room)	9703299247
26	Shaft Assy	9379805018	36	Drain Pump Sub Assy	9379914000
27	Joint Assy	9378038011	37	Pump Assy	9900472047
28	Motor Band Assy	9379613002	38	Float Switch	9900465032
29	Motor Band	9379614009	39	Drain Hose Assy	9379913003

IDOOR UNIT
SLIM DUCT
ARU24RLF
(Type : T)

Ref	Description	Parts number	
100	Control Box Assy	9380041016	
101	Control Cover Sub Assy	9379806022	
103	PCB Holder	9379402019	
105	Controller PCB	9707393705	
106	Power Supply PCB	9707398243	
110	Terminal 3P	9306489045	
111	Terminal 3P (Wired remote)	9703345012	
112	Reactor Assy	9707457018	
113	Cap (Power)	9352173011	
114	One-touch Bush	9374407019	
-	Fuse 250V 3.15A (Power Supply PCB F101)	0600470012	

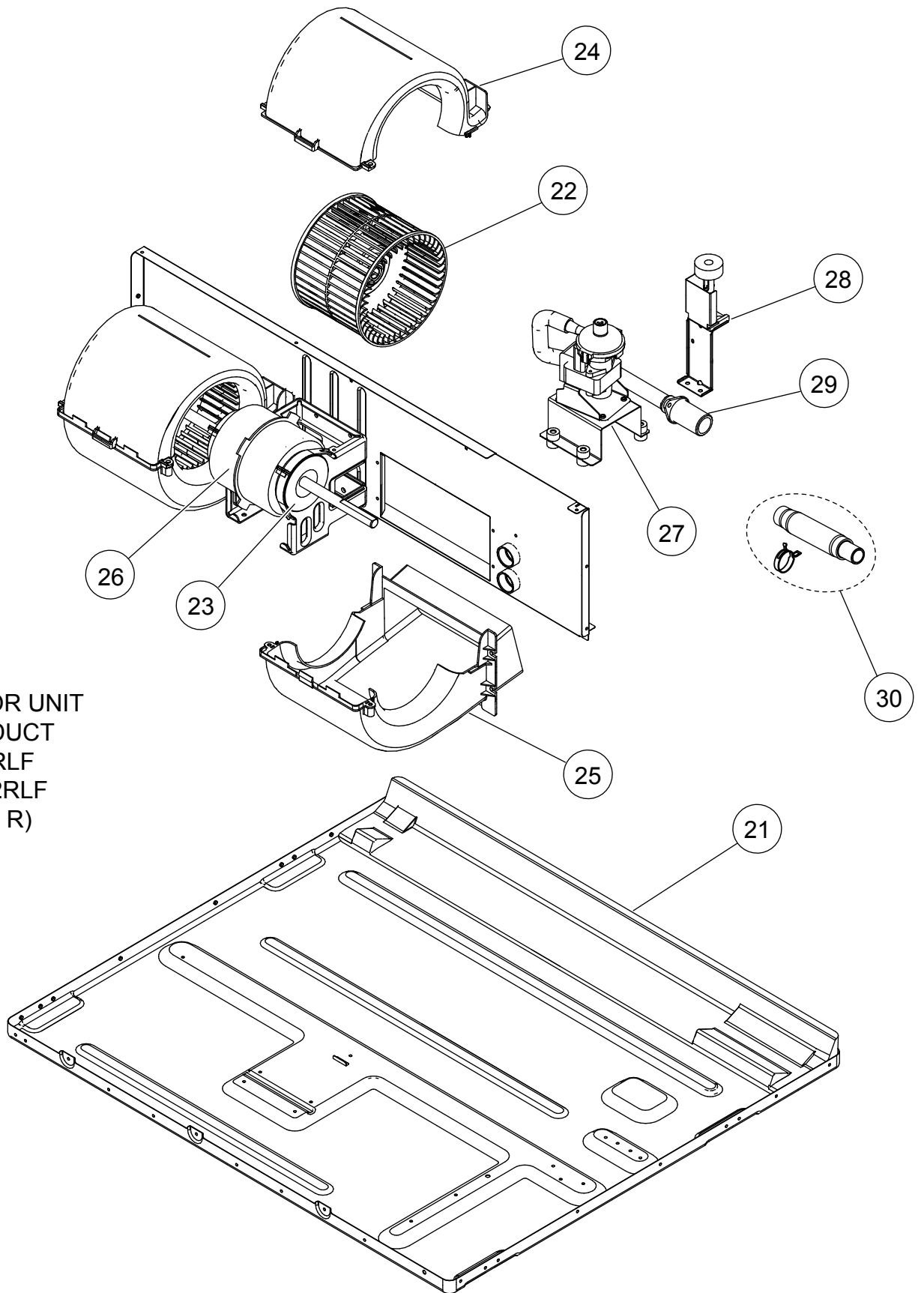


INDOOR UNIT
SLIM DUCT
ARU9RLF
ARU12RLF
(Type : R)



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

Ref	Description	Parts number
8	Fan Guard (2 Fan)	9380589006
9	Air Filter	9379574006
10	Main Panel (2 Fan)	9380602002
11	Cabinet Panel (2 Fan)	9380597001
12	Drain Pan Sub Assy	9379901048
13	Evaporater Total Assy (09, 12)	9380682042
13	Evaporater Total Assy (14)	9380682059

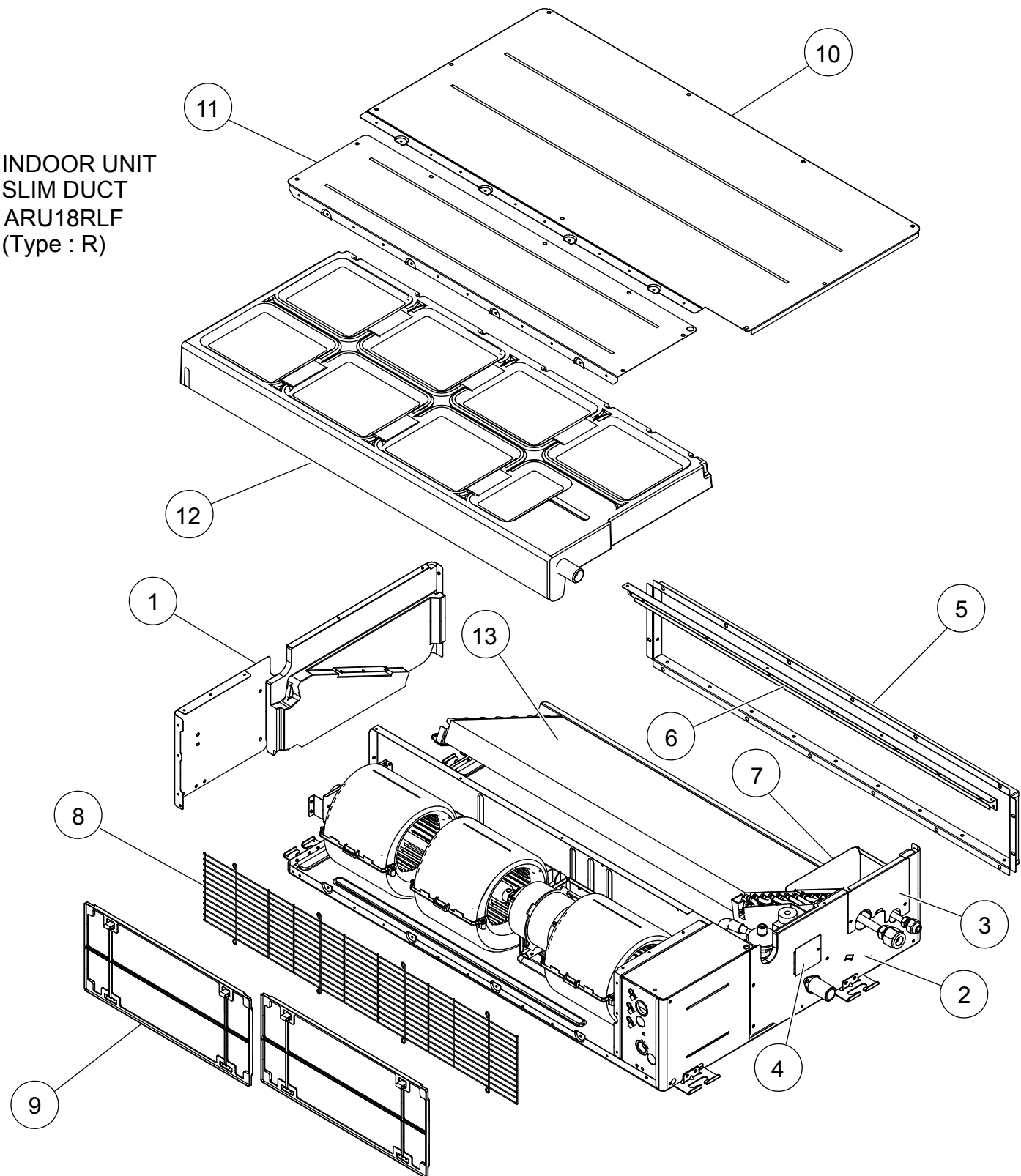


INDOOR UNIT
SLIM DUCT
ARU9RLF
ARU12RLF
(Type : R)

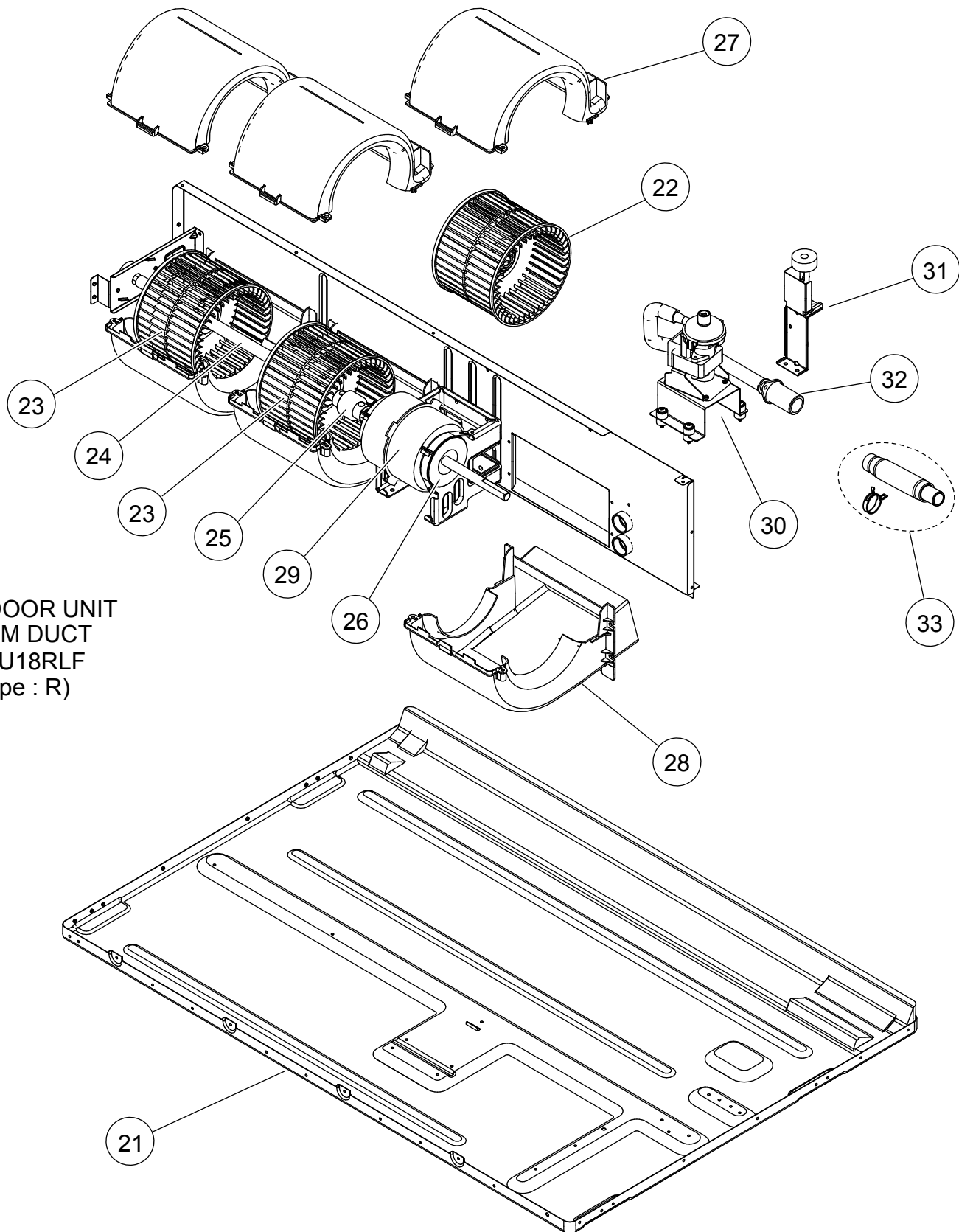
Ref	Description	Parts number
21	Top Panel Sub Assy	9379908030
22	Sirroco Fan Assy	9379570015
23	Rubber (Vibration Proof)	9379644006
24	Casing B	9379572002
25	Casing U	9379571005

Ref	Description	Parts number
26	Fan Motor Assy	9602967025
27	Drain Pump Sub Assy	9379914024
28	Float Switch Sub Assy	9378593022
29	Drain Hose Assy	9379913003
30	Hose Sub Assy	9378450141

INDOOR UNIT
SLIM DUCT
ARU18RLF
(Type : R)



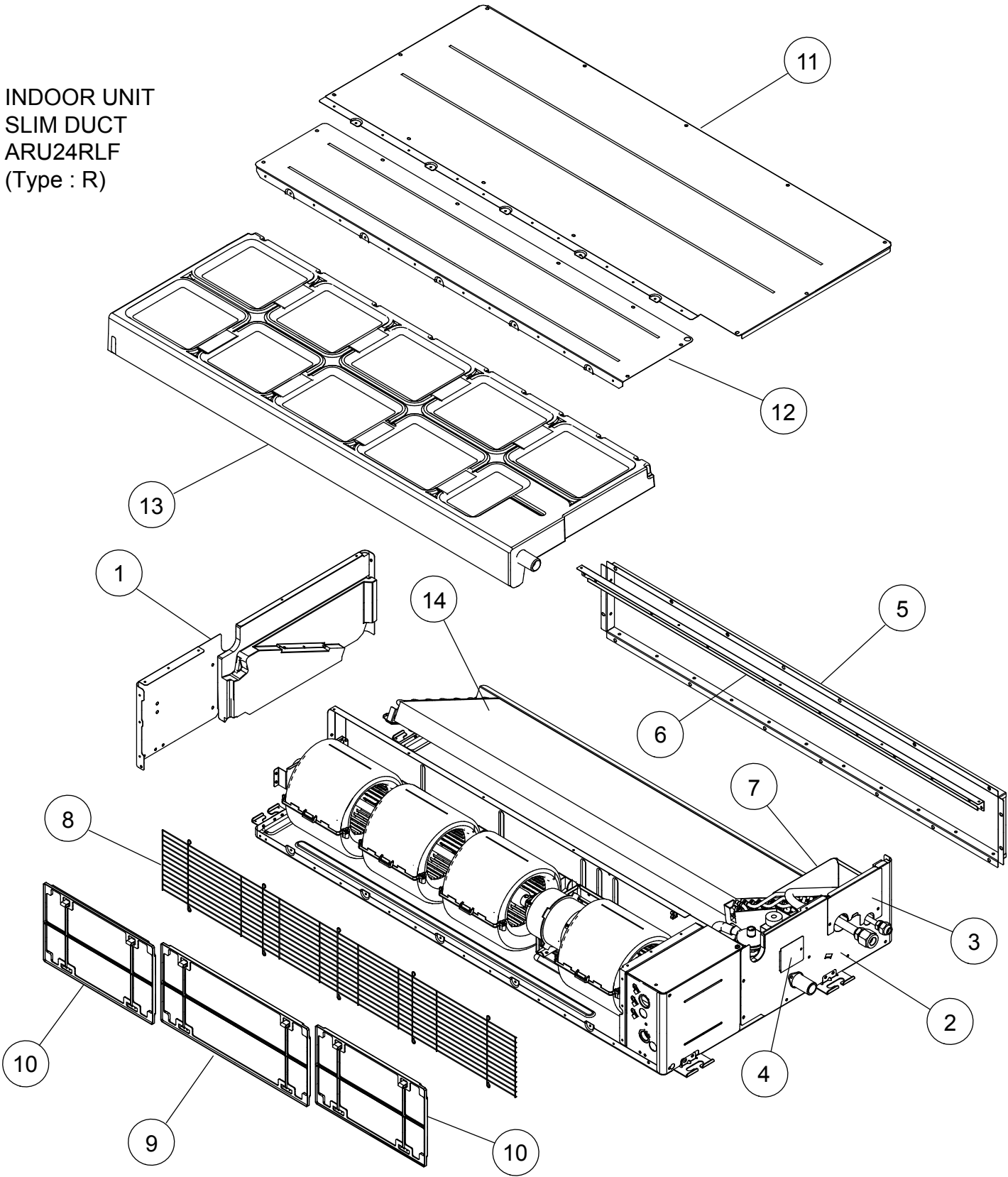
Ref	Description	Parts number	Ref	Description	Parts number
1	Side Panel R Sub Assy	9379906012	8	Fan Guard (3 Fan)	9380590002
2	Side Panel L Sub Assy	9379907019	9	Air Filter	9379575003
3	Pipe Panel Sub Assy	9379900003	10	Main Panel (3 Fan)	9380603009
4	Panel (Window) Sub Assy	9379915007	11	Cabinet Panel (3 Fan)	9380598008
5	Outlet Frame Assy	9380042013	12	Drain Pan Sub Assy	9379901055
6	Front Panel (3 Fan)	9380595007	13	Evaporator Total Assy	9380682066
7	Valve Cover Sub Assy	9379576017			



INDOOR UNIT
SLIM DUCT
ARU18RLF
(Type : R)

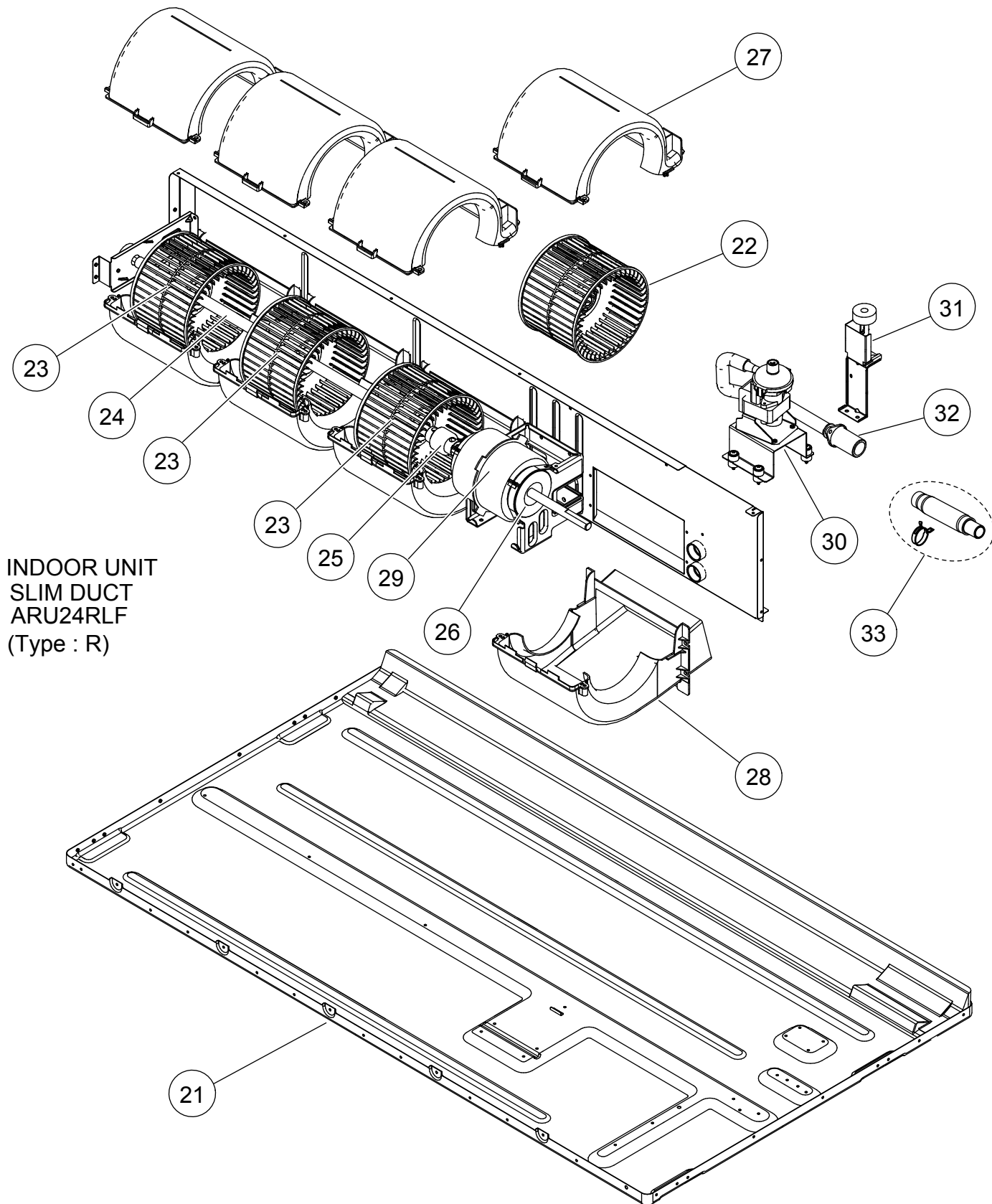
Ref	Description	Parts number		Ref	Description	Parts number	
21	Top Panel Sub Assy	9379908047		28	Casing U	9379571005	
22	Sirroco Fan Assy	9379570022		29	Fan Motor Assy	9602968022	
23	Sirroco Fan Assy	9379570039		30	Drain Pump Sub Assy	9379914024	
24	Shaft	9380398004		31	Float Switch Sub Assy	9378593022	
25	Joint Assy	9378038011		32	Drain Hose Assy	9379913003	
26	Rubber (Vibration Proof)	9379644006		33	Hose Sub Assy	9378450141	
27	Casing B	9379572002					

INDOOR UNIT
SLIM DUCT
ARU24RLF
(Type : R)



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	

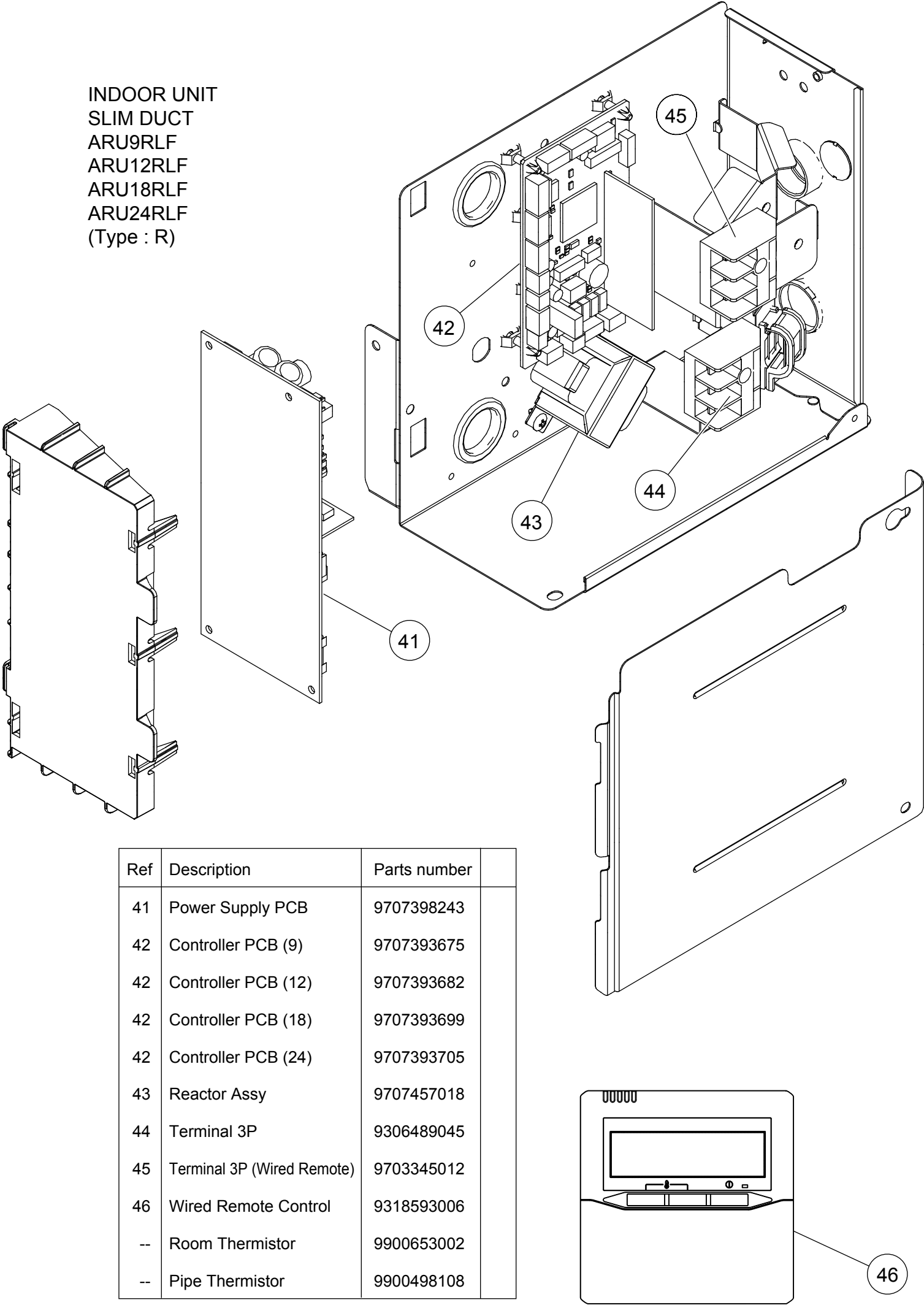
Ref	Description	Parts number	
8	Fan Guard (4 Fan)	9380591009	
9	Air Filter	9379575003	
10	Air Filter	9379574006	
11	Main Panel (4 Fan)	9380604006	
12	Cabinet Panel (4 Fan)	9380599005	
13	Drain Pan Sub Assy	9379901062	
14	Evaporator Total Assy	9380682073	



Ref.	Description	Parts number	
21	Top Panel Sub Assy	9379908054	
22	Sirroco Fan Assy	9379570022	
23	Sirroco Fan Assy	9379570039	
24	Shaft	9380398011	
25	Joint Assy	9378038011	
26	Rubber (Vibration Proof)	9379644006	
27	Casing B	9379572002	

Ref.	Description	Parts number	
28	Casing U	9379571005	
29	Fan Motor Assy	9602968022	
30	Drain Pump Sub Assy	9379914024	
31	Float Switch Sub Assy	9378593022	
32	Drain Hose Assy	9379913003	
33	Hose Sub Assy	9378450141	





INDOOR UNIT
 SLIM DUCT
 ARU9RLF
 ARU12RLF
 ARU18RLF
 ARU24RLF
 (Type : R)



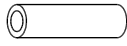
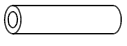
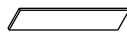










Ref	Description	Parts number	
41	Power Supply PCB	9707398243	
42	Controller PCB (9)	9707393675	
42	Controller PCB (12)	9707393682	
42	Controller PCB (18)	9707393699	
42	Controller PCB (24)	9707393705	
43	Reactor Assy	9707457018	
44	Terminal 3P	9306489045	
45	Terminal 3P (Wired Remote)	9703345012	
46	Wired Remote Control	9318593006	
--	Room Thermistor	9900653002	
--	Pipe Thermistor	9900498108	

ACCESSORIES

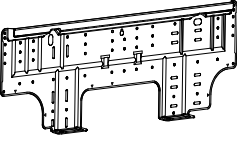
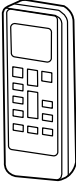
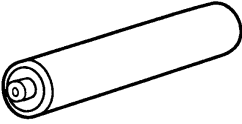


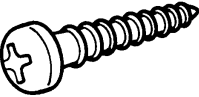

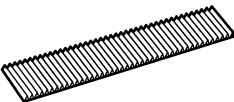
OUTDOOR UNIT

Parts	Q'ty	Application	Parts number
Drain Assy 	1	For outdoor unit drain piping work	9303029015
Drain Cap 	7		313166024302
Conduit Plate 	1	To fix conduit	9379938006
Binder 	3	For binding power cable and connection cable	9374688012

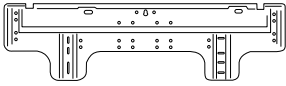
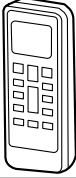




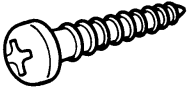

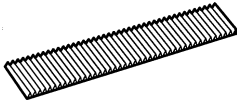
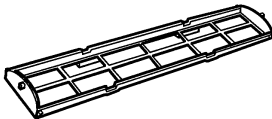
BRANCH BOX

Parts	Q'ty	Application	Parts number
Coupler heat insulation (large) 	4	For indoor and outdoor side pipe joint (gas pipe)	9378173569
Coupler heat insulation (small) 	4	For indoor and outdoor side pipe joint (liquid pipe)	9378173521
Insulation (long) 	3	For use on the section where the insulation fits onto this equipment. (indoor unit side)	9375620028
Insulation (short) 	3	For use on the section where the insulation fits onto this equipment. (outdoor unit side)	9375620035
Insulation 	3	To be used with this equipment's (indoor unit side) piping	9379779005
Hanger 	4	For suspending the Branch box from ceiling	9379778008
Washer 	8	For suspending the Branch box from ceiling	0700132278
Tapping screw 	8	For installing the hanger (Ø 4×10)	-
Tapping screw 	8	For installing the branch box on the wall (Ø 4×25)	-
Binder 	1	For remote control cable binding	313035356905
Seal 	1	To prevent small animals from entering inside	9380118008
Adapter 	3	For indoor unit connection 12.7 mm (1/2 inch) -> 9.52 mm (3/8 inch)	9370244007
Adapter 	3	For indoor unit connection 12.7 mm (1/2 inch) -> 15.88 mm (5/8 inch)	9374749034





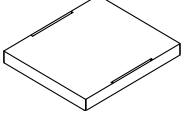
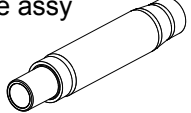

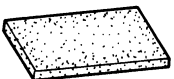
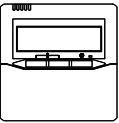
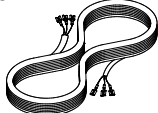

**INDOOR UNIT
COMPACT WALL MOUNTED
ASU7RLF, ASU9RLF, ASU12RLF**

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

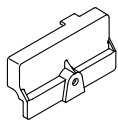



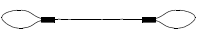


**WALL MOUNTED
ASU18RLF, ASU24RLF**

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

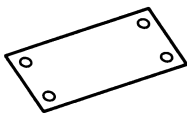




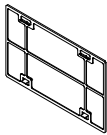
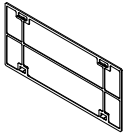
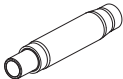

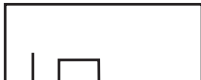



**INDOOR UNIT
COMPACT CASSETTE
AUU9RLF, AUU12RLF, AUU18RLF**

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
ARU18RLF
ARU24RLF

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 ARU24RLF)
Filter (Big) 	2	(ARU18RLF)
	1	(ARU24RLF)
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

1006G3809