FUJITSU

SPLIT TYPE
AIR CONDITIONER
CEILING TYPE (50Hz)

SERVICE MANUAL

Indoor unit	Outdoor unit
ABYG36LRTA	AOYG36LATT
ABYG45LRTA	AOYG45LATT
ABYG54LRTA	AOYG54LATT

Refrigerant R410A

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FUJITSU GENERAL LIMITED

SPECIFICATIONS

ELECTRICAL DATA

TYPE		Cooling & Heating		
INDOOR UNIT		ABYG36LRTA	ABYG45LRTA	ABYG54LRTA
OUTDOOR UNIT		AOYG36LATT	AOYG45LATT	AOYG54LATT
COOLING CAPACITY		10.0 kW	12.5 kW	14.0 kW
HEATING CAPACITY		11.2 kW	14.0 kW	16.0 kW
POWER SOURCE		400 V, 50 Hz, 3 phase, 4 W		
RUNNING CURRENT	Cooling	4.3 A	5.8 A	6.9 A
	Heating	4.4 A	5.8 A	6.9 A
INPUT WATTS	Cooling	2.84 kW	3.89 kW	4.65 kW
	Heating	2.87 kW	3.88 kW	4.67 kW
E.E.R.	Cooling	3.52 kW/kW	3.21 kW/kW	3.01 kW/kW
C.O.P.	Heating	3.90 kW/kW	3.61 kW/kW	3.43 kW/kW
MOISTURE REMOVAL		3.0 L/hr	4.5 L/hr	5.0 L/hr
AIRCIRCULATION INDOOR		1,900 m3/h	2,100 m3/h	2,300 m3/h
AIRCIRCULATION OUTDOOR	Cooling	6,200 m3/h	6,750 m3/h	6,900 m3/h
	Heating	6,200 m3/h	6,200 m3/h	6,900 m3/h
MAXIMUM CURRENT		7.9 A	8.9 A	9.9 A

FAN MOTOR

INDOOR UNIT, Discrimination		MFH-45RV		
INDOOR UNIT	High	1,100 r.p.m.	1,200 r.p.m.	1,360 r.p.m.
	Medium	910 r.p.m.	1,000 r.p.m.	1,150 r.p.m.
	Low	750 r.p.m.	830 r.p.m.	950 r.p.m.
	Quiet	650 r.p.m.	680 r.p.m.	790 r.p.m.
OUTDOOR UNIT, Discrimination		MFE-54VVT		
OUTDOOR UNIT Cooling	Upper fan	780 r.p.m.	850 r.p.m.	900 r.p.m.
	Lower fan	750 r.p.m.	800 r.p.m.	800 r.p.m.
OUTDOOR UNIT Heating	Upper fan	780 r.p.m.	780 r.p.m.	870 r.p.m.
	Lower fan	750 r.p.m.	750 r.p.m.	840 r.p.m.

NOISE LEVEL

INDOOR UNIT	High	47 dB	49 dB	51 dB
	Medium	43 dB	45 dB	48 dB
	Low	37 dB	39 dB	42 dB
	Quiet	32 dB	34 dB	38 dB
OUTDOOR UNIT	Cooling	51 dB	54 dB	55 dB
	Heating	53 dB	54 dB	56 dB

COMPRESSOR AND REFRIGERANT

TYPE		Hermetic type, Inverter, 4 poles, 3 phase, DC motor, Twin Rotary
DISCRIMINATION		DA422A3F-29ZAD
WEIGHT (with oil)		23.0 kg
REFRIGERANT TYPE		R410A
PRECHARGED REFRIGERANT		3,450 g
MAX PIPE HEIGHT		30 m
FULL CHARGE Pipe length	30 m	3,450 g
	45 m	4,200 g
	60 m	4,950 g
	75 m	5,700 g
ADDITIONAL CHARGE		50 g/m

DIMENSIONS

INDOOR UNIT	H x W x D	240 x 1,660 x 700 mm
OUTDOOR UNIT	H x W x D	1,290 x 900 x 330 mm

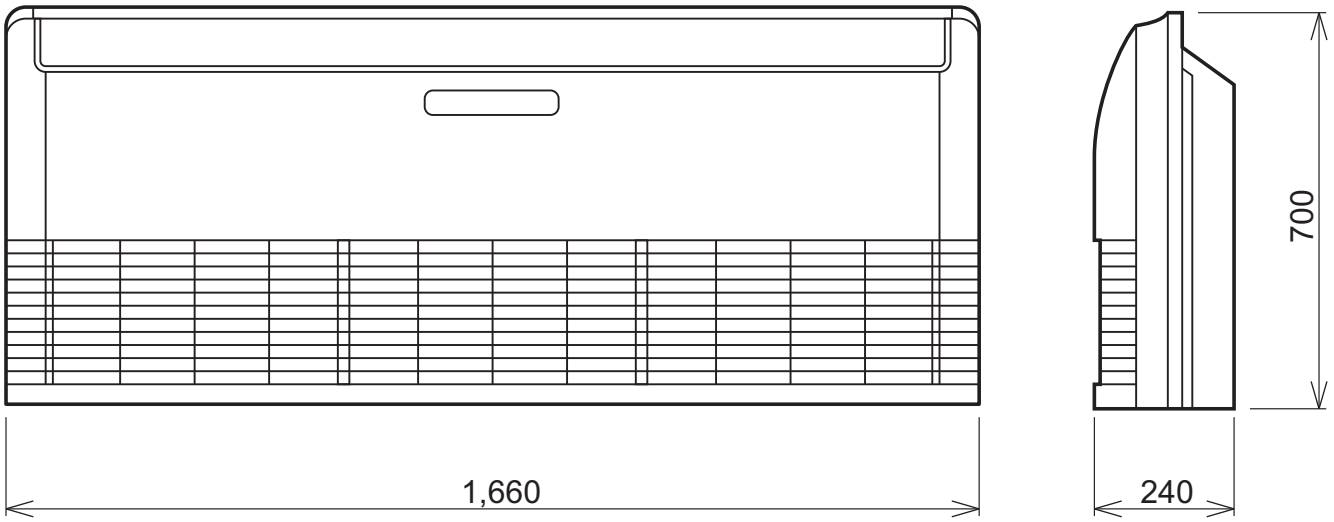
WEIGHT

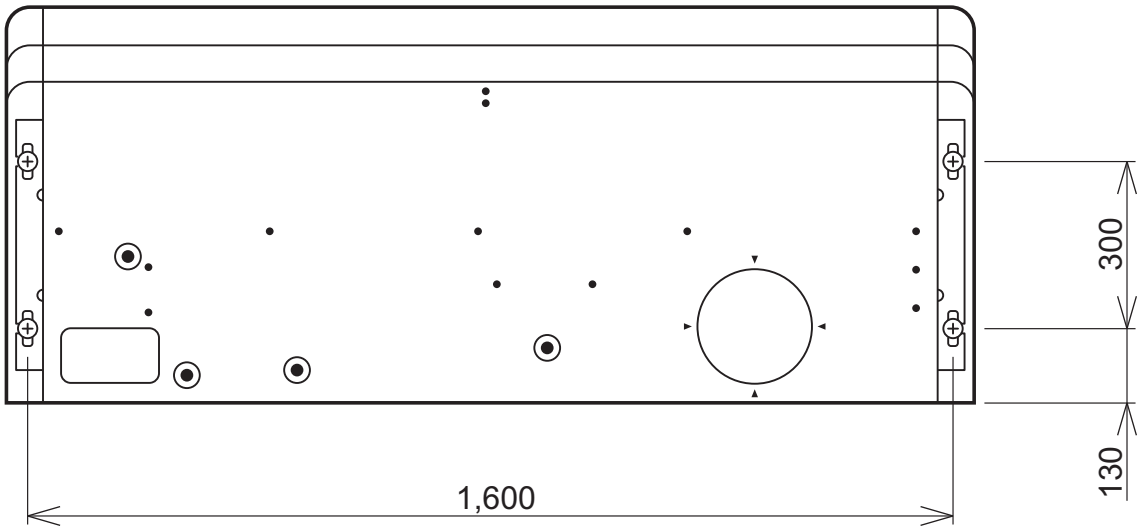
INDOOR UNIT	Shipping / Net	58 kg / 46 kg	60 / 48
OUTDOOR UNIT	Shipping / Net	113 kg / 104 kg	

DIMENSIONS

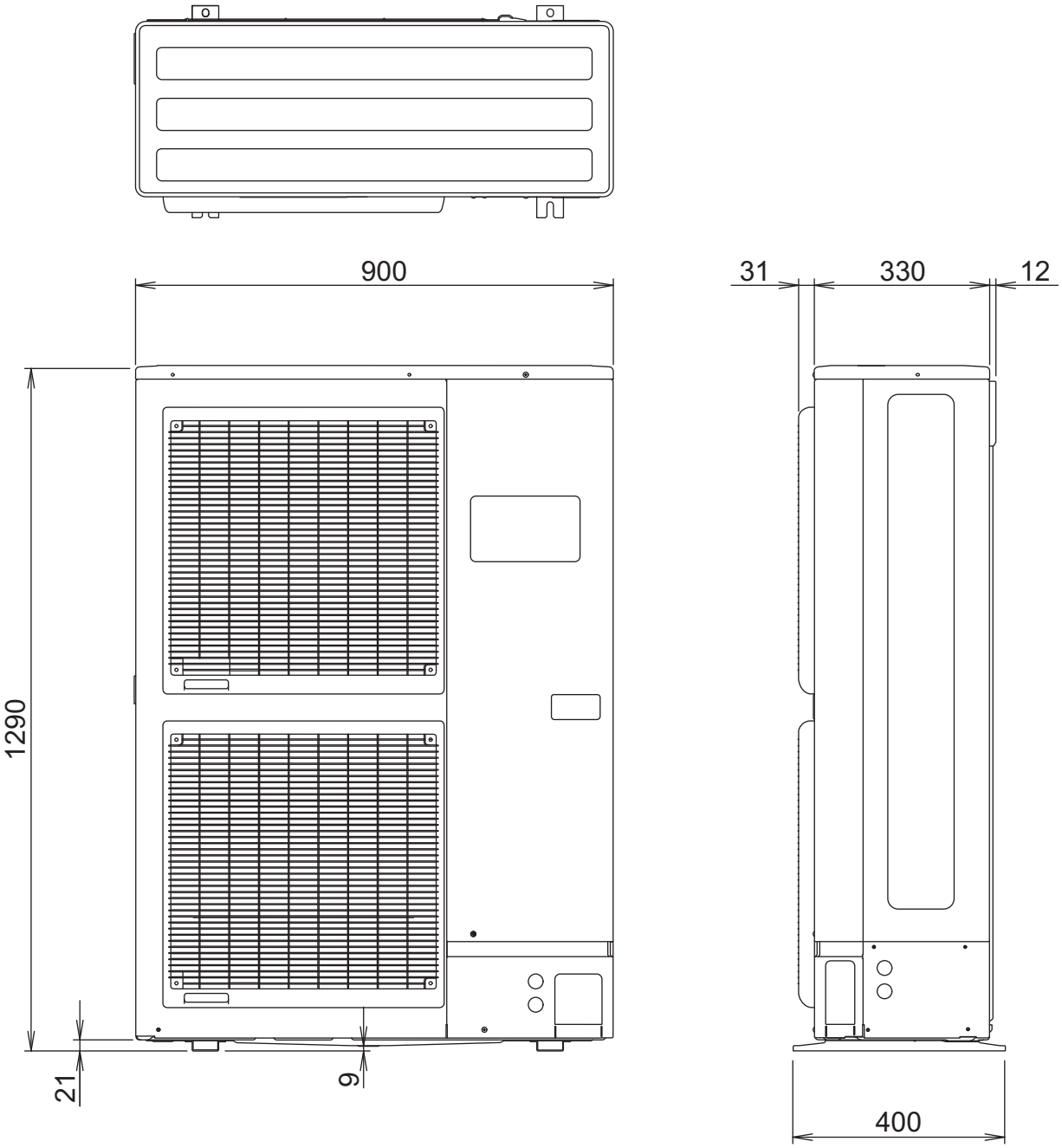
INDOOR UNIT

(Unit : mm)

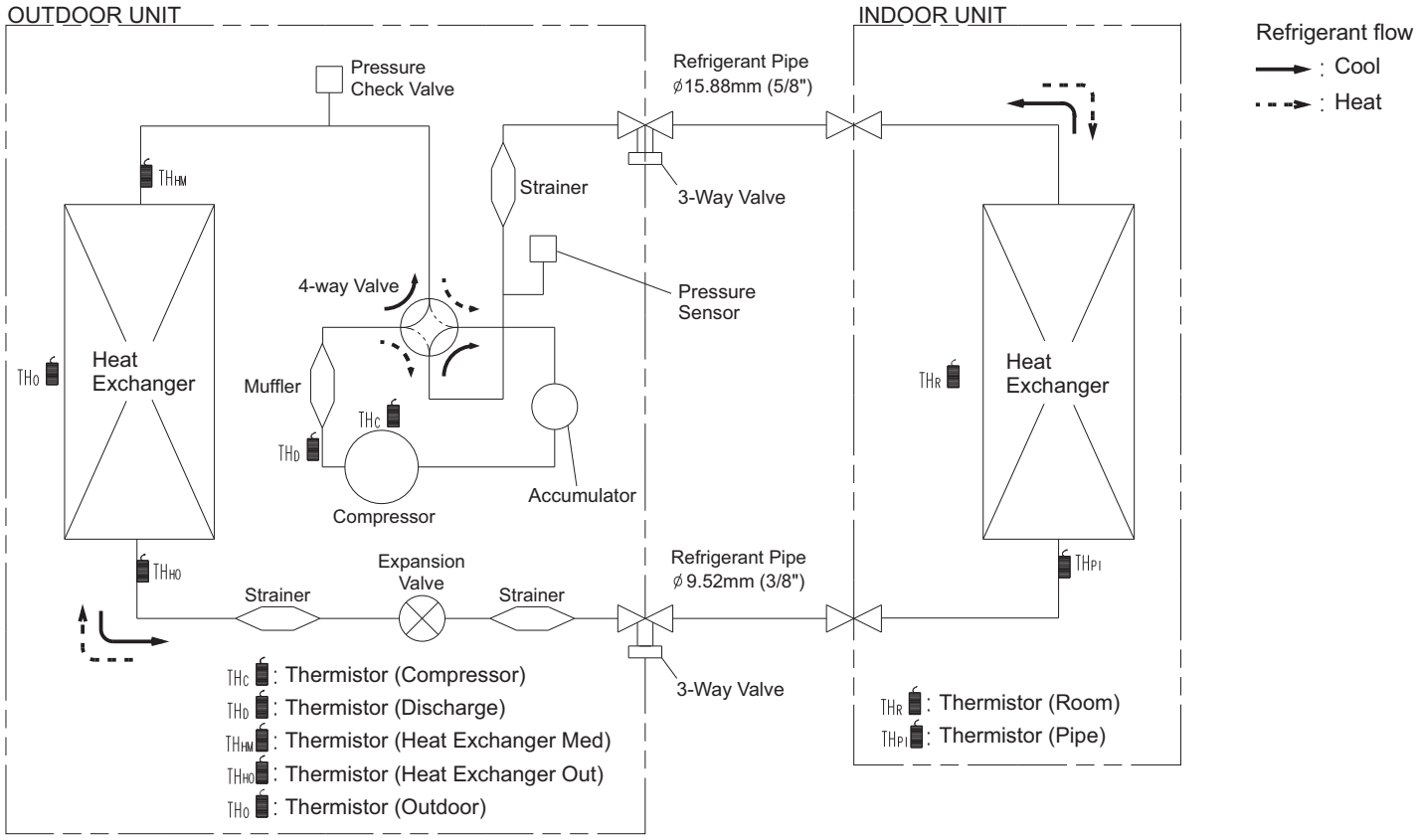




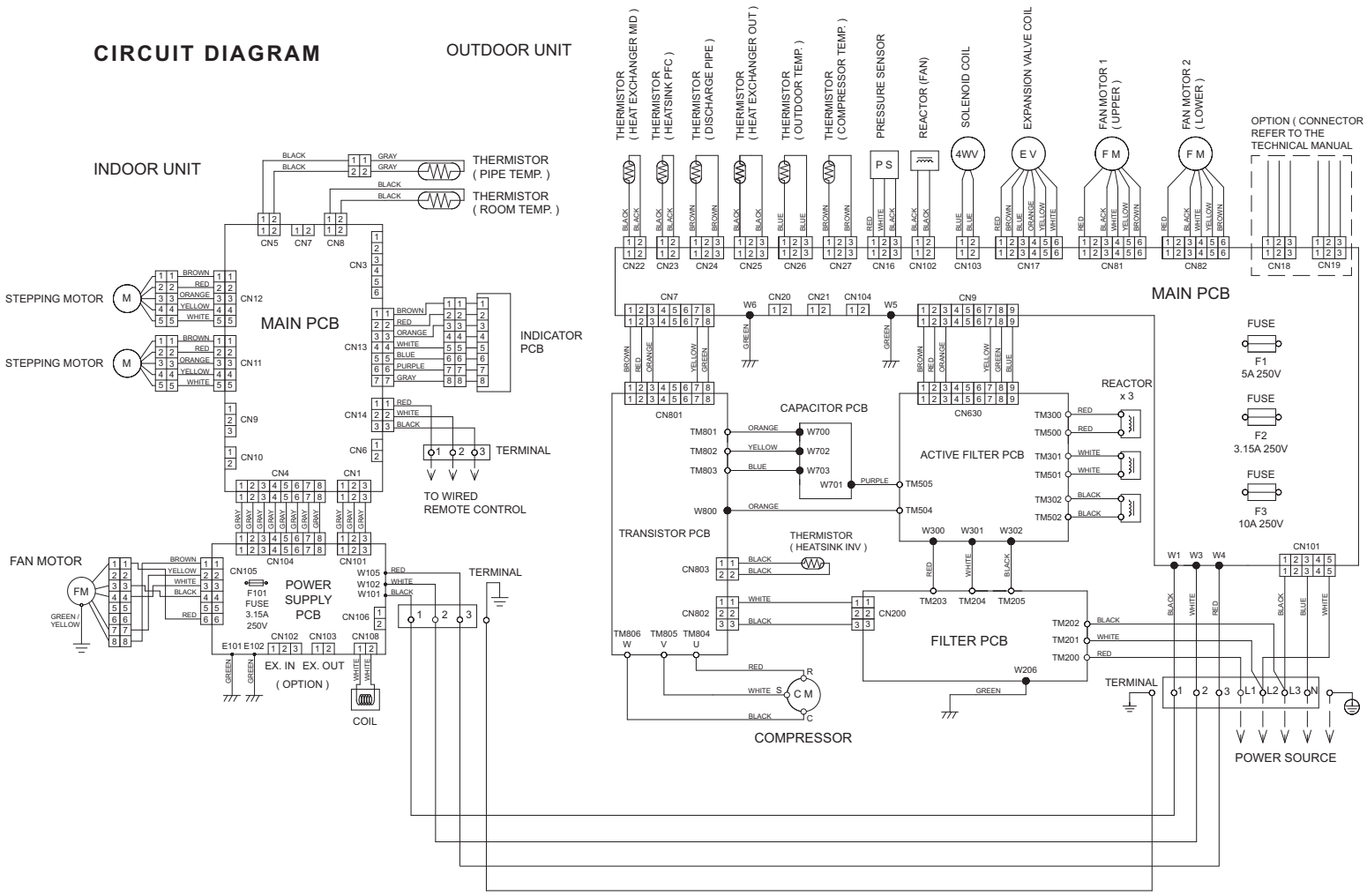
OUTDOOR UNIT
(unit : mm)



REFRIGERANT SYSTEM DIAGRAM

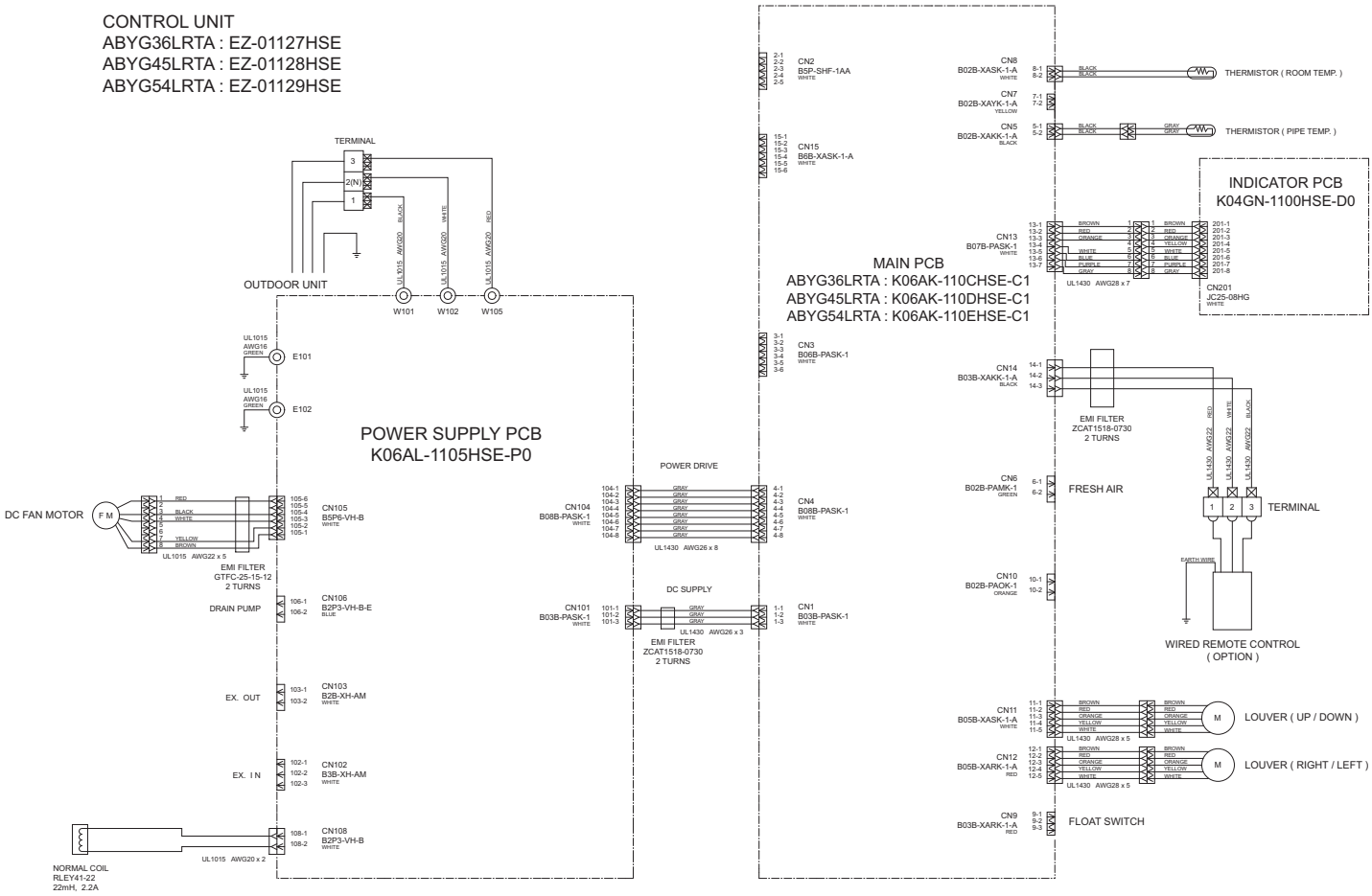


CIRCUIT DIAGRAM

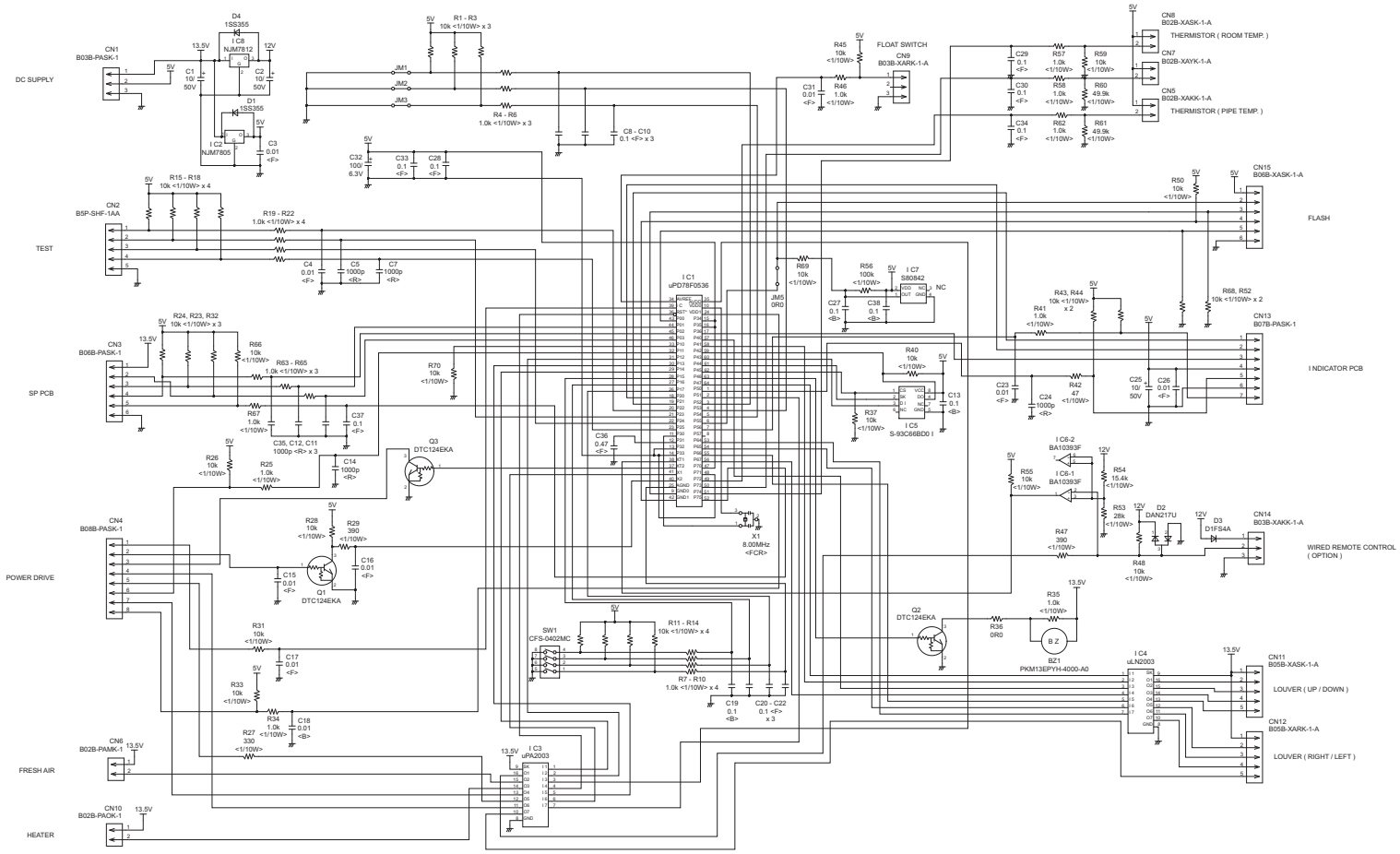


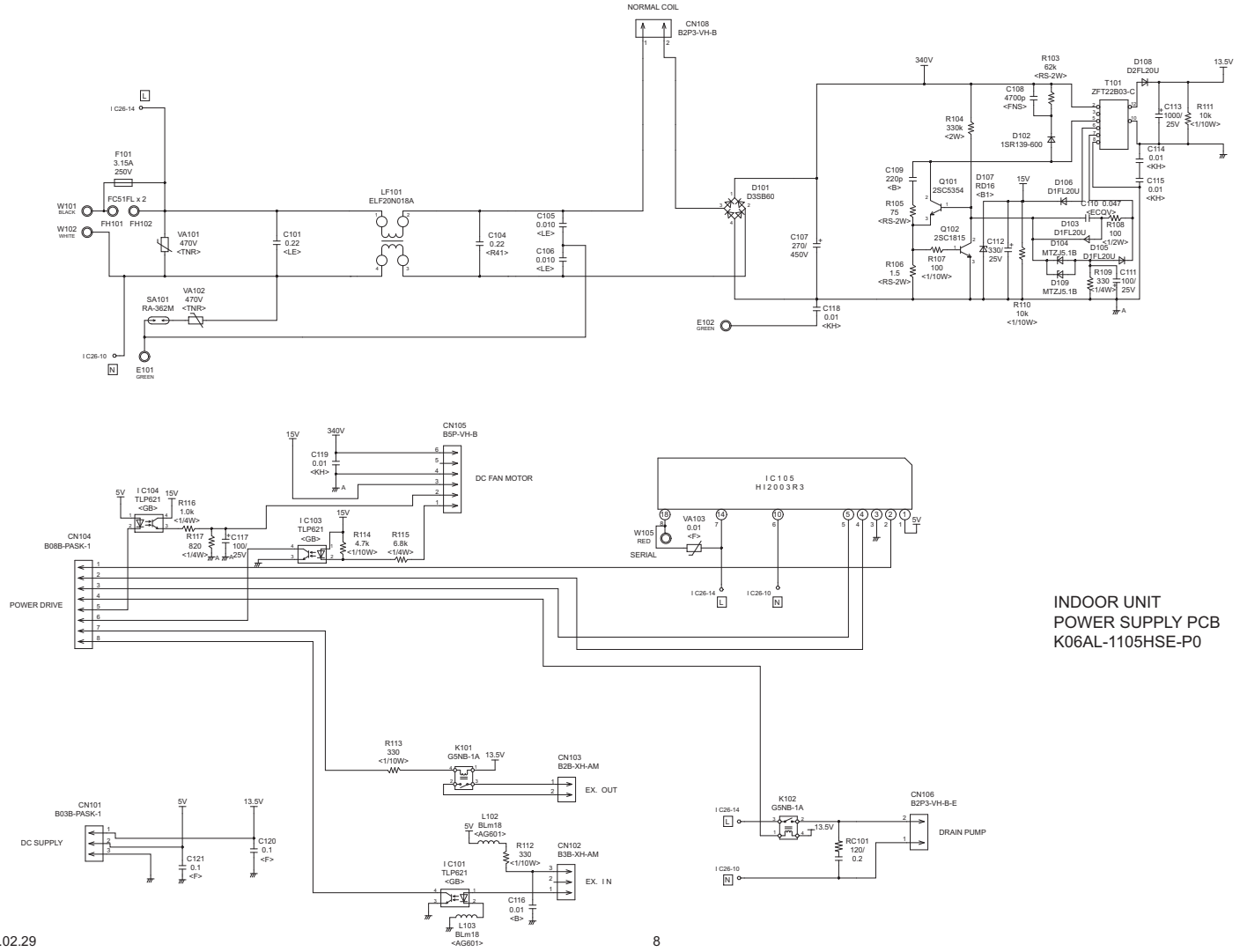
INDOOR PCB
CIRCUIT DIAGRAM

CONTROL UNIT
ABYG36LRTA : EZ-01127HSE
ABYG45LRTA : EZ-01128HSE
ABYG54LRTA : EZ-01129HSE



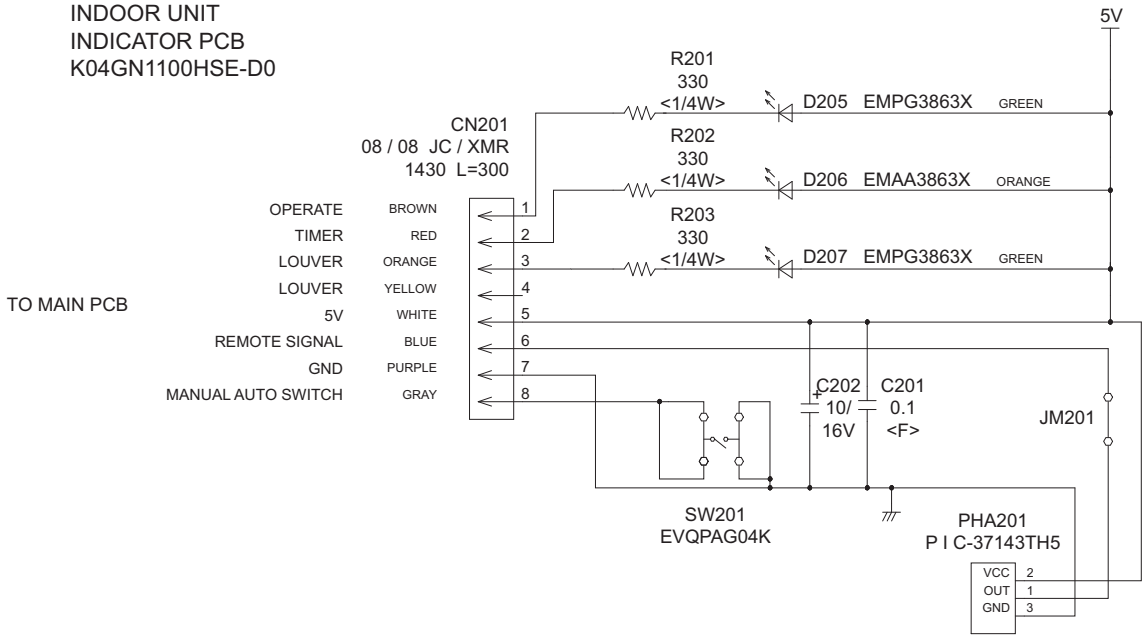
INDOOR UNIT
MAIN PCB
ABYG36LRTA : K06AK-110CHSE-C1
ABYG45LRTA : K06AK-110DHSE-C1
ABYG54LRTA : K06AK-110EHSE-C1





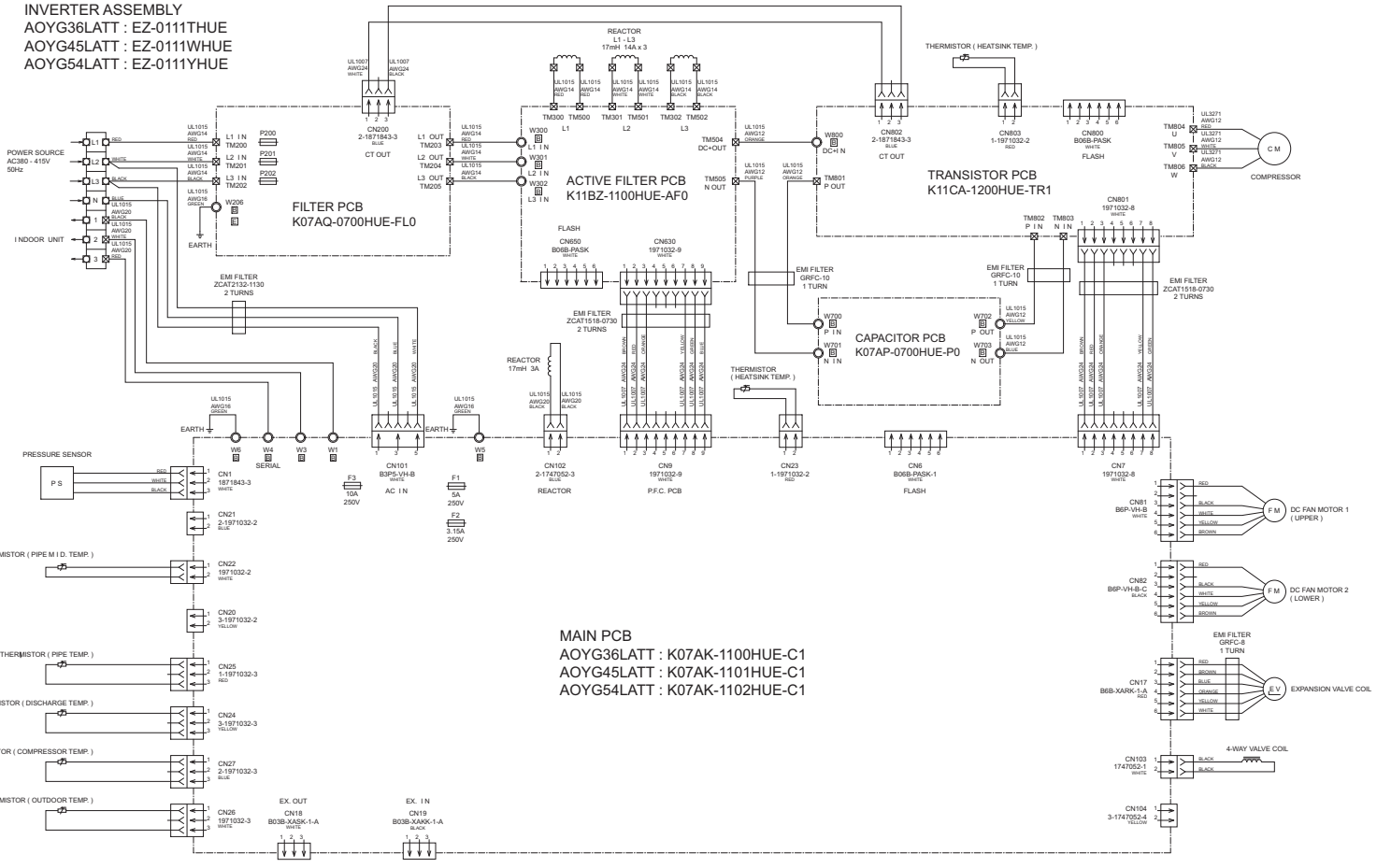
INDOOR UNIT
POWER SUPPLY PCB
K06AL-1105HSE-P0

INDOOR UNIT
INDICATOR PCB
K04GN1100HSE-D0



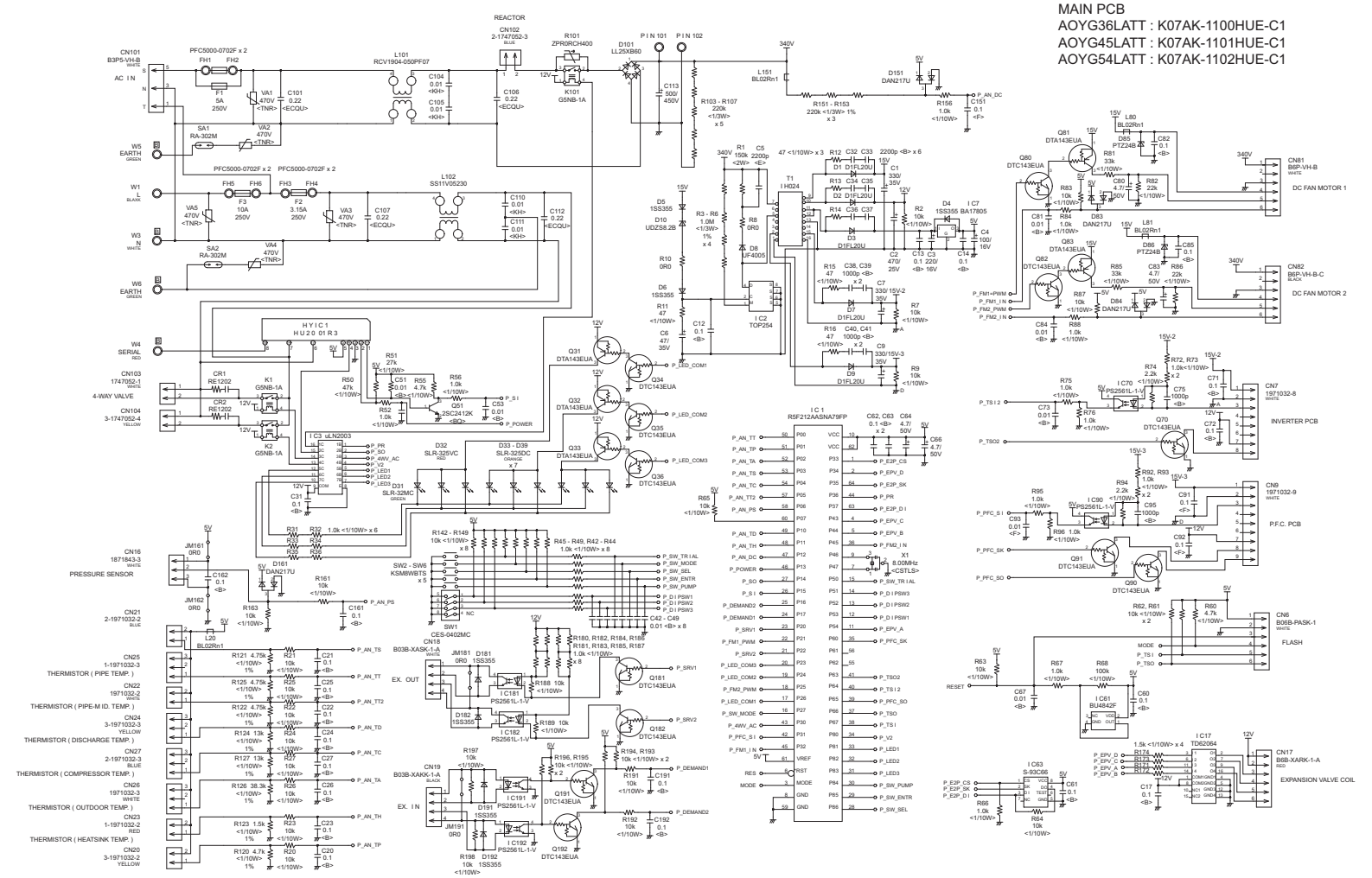
OUTDOOR PCB
CIRCUIT DIAGRAM

INVERTER ASSEMBLY
AOYG36LATT : EZ-0111THUE
AOYG45LATT : EZ-0111WHUE
AOYG54LATT : EZ-0111YHUE

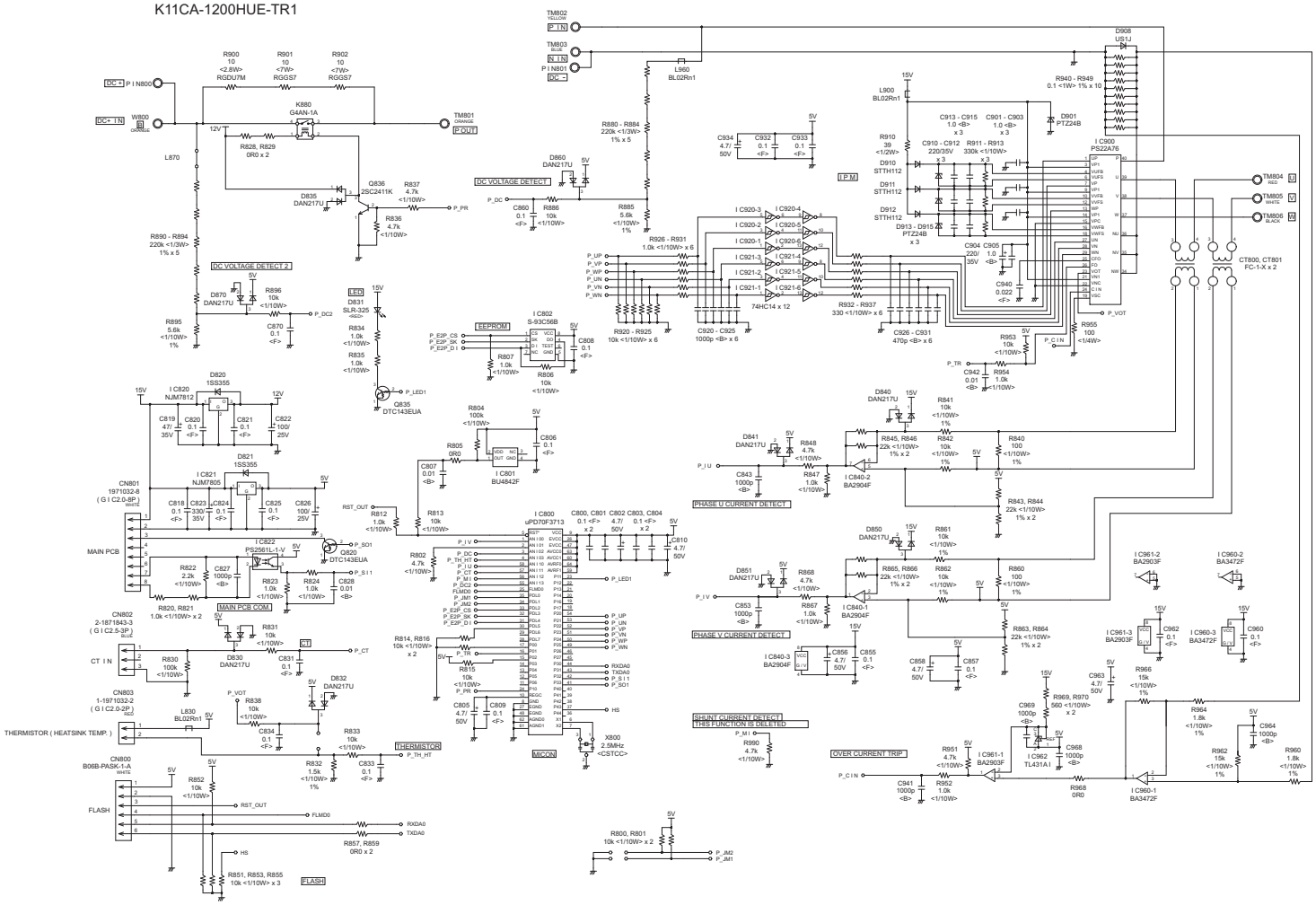


MAIN PCB
AOYG36LATT : K07AK-1100HUE-C1
AOYG45LATT : K07AK-1101HUE-C1
AOYG54LATT : K07AK-1102HUE-C1

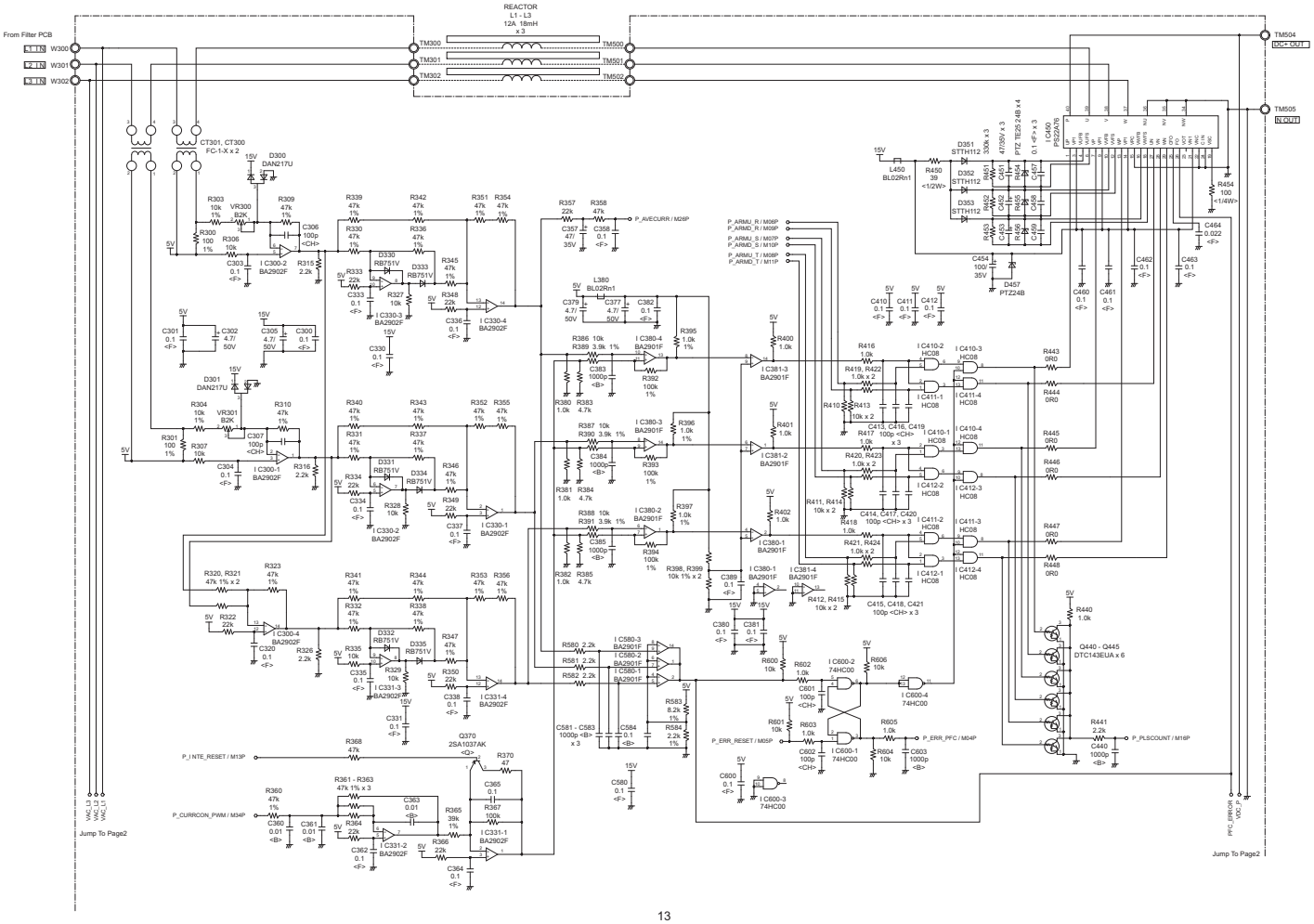
OUTDOOR UNIT
MAIN PCB
AOYG36LATT : K07AK-1100HUE-C1
AOYG45LATT : K07AK-1101HUE-C1
AOYG54LATT : K07AK-1102HUE-C1



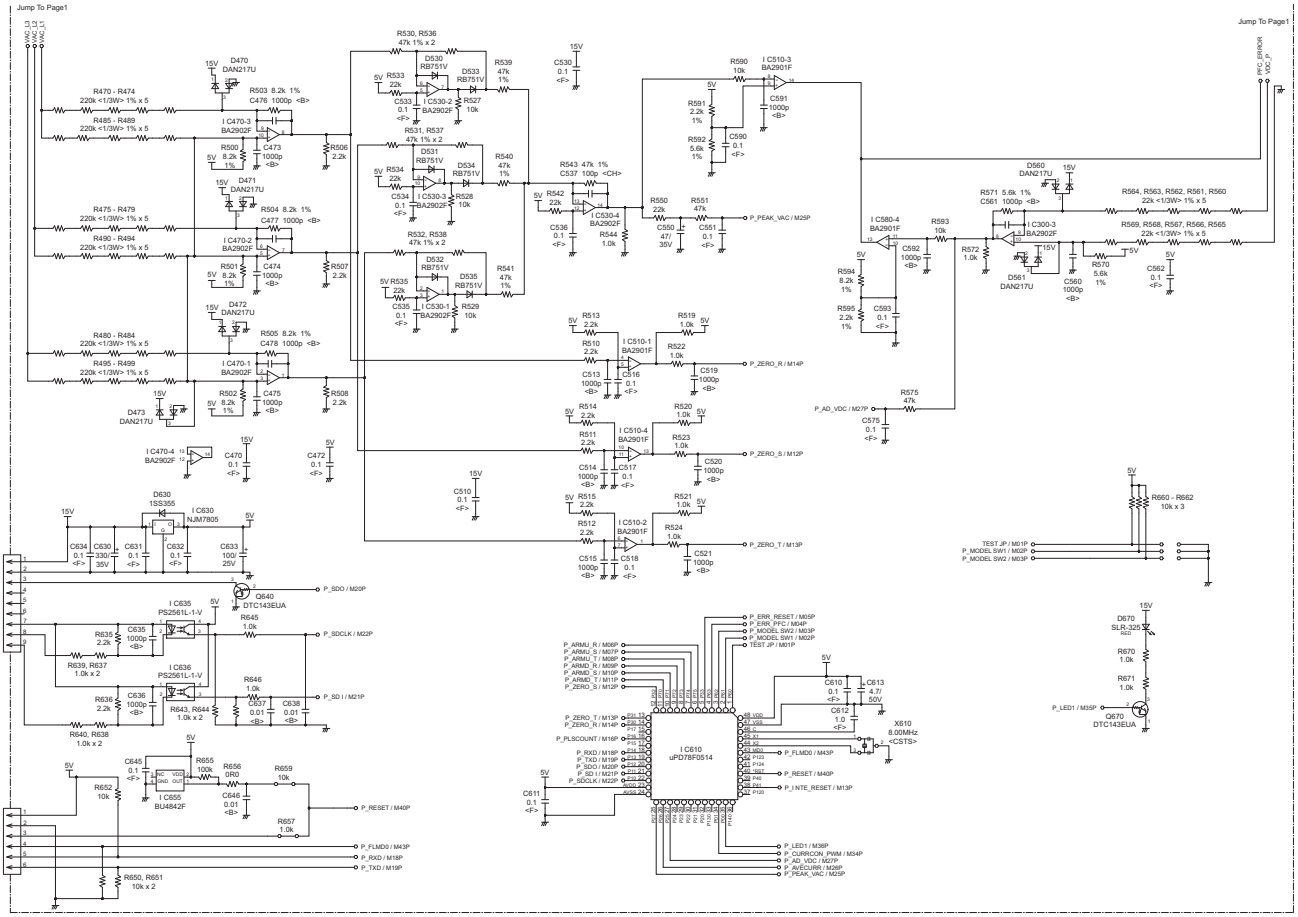
OUTDOOR UNIT
TRANSISTOR PCB
K11CA-1200HUE-TR1



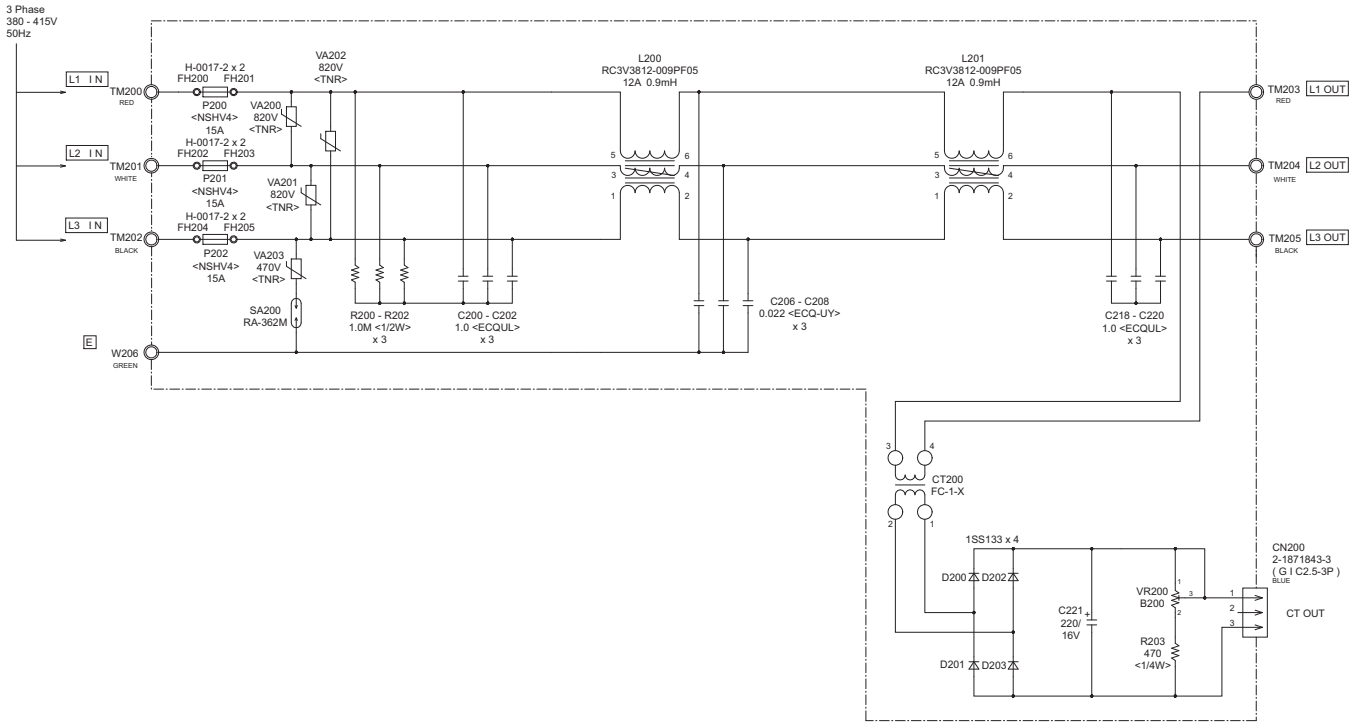
OUTDOOR UNIT
ACTIVE FILTER PCB - 1
K-11BZ-1100HUE-AF0



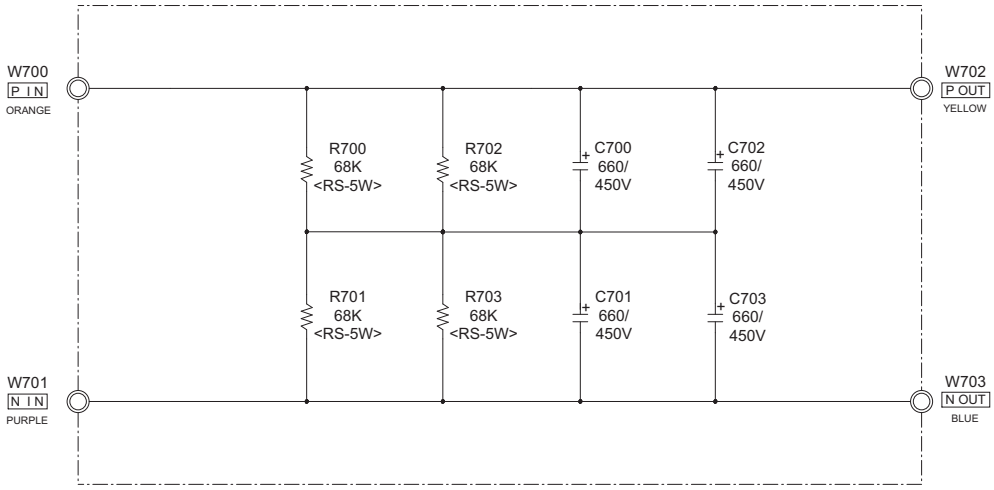
OUTDOOR UNIT
ACTIVE FILTER PCB - 2
K11BZ-1100HUE-AF0



OUTDOOR UNIT
FILTER PCB
K07AQ-0700HUE-FL0



OUTDOOR UNIT
CAPACITOR PCB
K07AP-0700HUE-P0



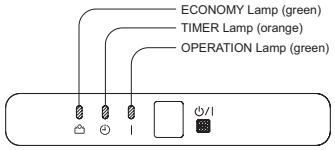
ERROR DETECTION

INDOOR UNIT and WIRED REMOTE CONTROL

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

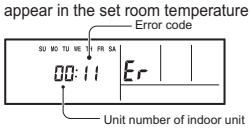
Indoor unit display

Troubleshooting at the display is possible either on the wired or wireless remote control.



Remote control

This is possible only on a wired remote control.
If an error occurs, the following display will be shown.
("Er" will appear in the set room temperature display.)



EX. Self-diagnosis

● : 0.5s on / 0.5s off

◇ : 0.1s on / 0.1s off

( ) : Number of flashing

Indoor unit			Wired remote control	Description
OPERATION lamp (green)	TIMER lamp (orange)	ECONOMY lamp (green)		
●(1)	●(1)	◇	11	Serial communication error
●(1)	●(2)	◇	12	Wired remote control communication error
●(1)	●(5)	◇	15	Check run unfinished
●(2)	●(1)	◇	21	Unit number or Refrigerant circuit address setting error [Simultaneous Multi]
●(2)	●(2)	◇	22	Indoor unit capacity error
●(2)	●(3)	◇	23	Combination error
●(2)	●(4)	◇	24	• Connection unit number error (indoor slave unit) [Simultaneous Multi] • Connection unit number error (indoor unit or branch unit) [Flexible Multi]
●(2)	●(7)	◇	27	Master unit, slave unit set-up error [Simultaneous Multi]
●(3)	●(1)	◇	31	Power supply interruption error
●(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 Lerror
●(6)	●(10)	◇	6A	Display PCB microcomputers communication error

Indoor unit			Wired remote control	Description
OPERATION lamp (green)	TIMER lamp (orange)	ECONOMY lamp (green)		
●(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)	●(8)	◇	98	Outdoor unit fan motor 2 error
●(9)	●(9)	◇	99	4-way valve error
●(9)	●(10)	◇	9A	Coil (expansion valve) error
●(10)	●(1)	◇	A1	Discharge temp. error
●(10)	●(3)	◇	A3	Compressor temp. error
●(10)	●(4)	◇	A4	High pressure error
●(10)	●(5)	◇	A5	Low pressure error
●(13)	●(2)	◇	J2	Branch boxes error [Flexible Multi]

OUTDOOR UNIT

TEST RUN

⚠ CAUTION
Always turn on the power 6 hours prior to the start of the operation in order to protect the compressor.

1. Check items before performing the test run

Make sure to perform the test run.
Before performing the test run, be sure to check the following points.

(1) Is gas leaking?
Check connection of each pipe (flare connection part, brazing part).

(2) Is a breaker installed to the power cable of the outdoor unit ?

(3) Has each cable been securely connected to the terminal according to the specifications ?

(4) Are the 3-way valves (gas pipes and liquid pipes) of the outdoor units open?

(5) Has the power been supplied to the unit for at least 6 hours ?

(6) Has the necessary local setting been done ?

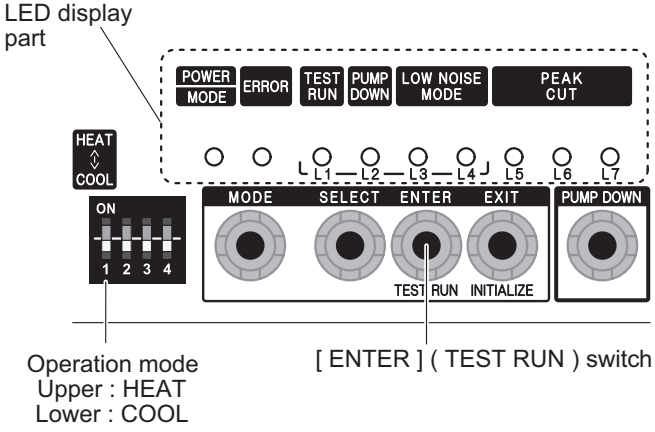
(7) Check insulation resistance of 1 MΩ or more using a 500V mega tester.

If no problems are found with the above items, perform the test run according to “Test run method”.
If any problems are found, immediately resolve the problem and re-check the items.

2. Test run method

⚠ **CAUTION**
If the test run is performed for 1 outdoor unit in a group control system installation, the test run will also be performed for the other units. Therefore, make sure that all of the units have been installed before starting a test run. (Group control system installation described in “SPECIAL INSTALLATION METHODS” in the installation manual of the indoor unit.)

Operate [ENTER] (TEST RUN) switch on the display board by the following procedure.



2.1. Operating procedures for the test run

(1) Check the 3-way valves (both at the liquid side and gas side) are opened.

(2) Set the operation mode to “COOL” or “HEAT”.

POWER / MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	LOW NOISE (L4)	PEAK CUT (L5)	PEAK CUT (L6)	PEAK CUT (L7)
●	○	○	○	○	○	○	○	○

In the first test run, be sure to set the operation mode to “COOL”.
The operation mode cannot be switched between “COOL” and “HEAT” during the test run. To switch the operation mode between “COOL” and “HEAT”, stop the test run, switch the operation mode, and then start the test run again.

(3) Press [ENTER] (TEST RUN) switch for more than 3 seconds.

POWER / MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	LOW NOISE (L4)	PEAK CUT (L5)	PEAK CUT (L6)	PEAK CUT (L7)
●	○	●	○	○	○	○	○	○

“TEST RUN” LED will light on.
If the compressor is operating at starting the test run, the compressor will stop and, after a while, the test run will start.
Either of the above "LOW NOISE" or "PEAK CUT" will light on during the test run if local setting function is selected.

(4) Confirm operating status.

(5) Press [ENTER] (TEST RUN) switch again.

POWER / MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	LOW NOISE (L4)	PEAK CUT (L5)	PEAK CUT (L6)	PEAK CUT (L7)
●	○	○	○	○	○	○	○	○

“TEST RUN” LED lights off, and TEST RUN stops.

Test run will finish after about 60 minutes automatically.
At the same time, “TEST RUN” LED will light off.
Test run may be stopped before operating for 60 minutes if an error occurs after a starting test run.

OUTDOOR UNIT
ERROR CODE DISPLAY

Display when an error occurs

POWER / MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	LOW NOISE (L4)	PEAK CUT (L5)	PEAK CUT (L6)	PEAK CUT (L7)
●	Blinks (Hi-speed)	○	○	○	○	○	○	○

Check that the ERROR LED blinks,
and then short-press the [ENTER] switch once.
The number of blinks of the LED indicates the type of error.

Display mode ● : ON
○ : OFF
◆ : Blink (0.5s ON / 0.5s OFF)
( ) : Number of ßashing

Error code check table

POWER / MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	LOW NOISE (L4)	PEAK CUT (L5)	PEAK CUT (L6)	PEAK CUT (L7)	Description
◆(2)	●	◆(1)	◆(1)	○	○	○	●	●	Serial forward transmission error immediately after operation
◆(2)	●	◆(1)	◆(1)	○	○	●	○	○	Serial forward transmission error during operation
◆(2)	●	◆(2)	◆(2)	○	○	○	○	●	Indoor unit capacity error
◆(2)	●	◆(5)	◆(15)	○	○	○	○	●	Indoor unit error
◆(2)	●	◆(6)	◆(1)	○	○	○	○	●	Over voltage
◆(2)	●	◆(6)	◆(1)	○	○	○	●	●	Power supply frequency error
◆(2)	●	◆(6)	◆(2)	○	○	○	○	●	Outdoor unit PCB model information error
◆(2)	●	◆(6)	◆(2)	○	○	●	●	●	PFC communication error
◆(2)	●	◆(6)	◆(3)	○	○	○	○	●	Inverter error
◆(2)	●	◆(6)	◆(4)	○	○	●	●	●	PFC AD detection error
◆(2)	●	◆(6)	◆(4)	○	●	○	○	○	PFC hardware error
◆(2)	●	◆(6)	◆(5)	○	○	○	●	●	IPM error (Trip terminal L error)
◆(2)	●	◆(6)	◆(8)	○	○	○	●	○	Rush current limiting resister temp rise protection
◆(2)	●	◆(7)	◆(1)	○	○	○	○	●	Discharge temp. sensor error
◆(2)	●	◆(7)	◆(2)	○	○	○	○	●	Compressor temp. sensor error
◆(2)	●	◆(7)	◆(3)	○	○	○	●	○	Heat Ex. middle temp. sensor error
◆(2)	●	◆(7)	◆(3)	○	○	○	●	●	Outdoor unit Heat Ex. liquid temp. sensor error
◆(2)	●	◆(7)	◆(4)	○	○	○	○	●	Outdoor temp. sensor error
◆(2)	●	◆(7)	◆(7)	○	○	○	○	●	Heat sink temp. sensor error
◆(2)	●	◆(7)	◆(7)	○	○	○	●	○	PFC heat sink temp. sensor error
◆(2)	●	◆(8)	◆(4)	○	○	○	○	●	Current sensor 1 error (stoppage permanently)
◆(2)	●	◆(8)	◆(6)	○	○	●	○	○	High pressure switch 1 error
◆(2)	●	◆(8)	◆(6)	○	○	●	●	○	Pressure sensor error
◆(2)	●	◆(9)	◆(4)	○	○	○	○	●	Trip detection (stoppage permanently)
◆(2)	●	◆(9)	◆(5)	○	○	○	○	●	Compressor motor control error (stoppage permanently)
◆(2)	●	◆(9)	◆(5)	○	○	●	○	●	Compressor motor loss of synchronization (stoppage permanently)
◆(2)	●	◆(9)	◆(7)	○	○	○	●	●	Outdoor unit fan motor 1 error (Duty error)
◆(2)	●	◆(9)	◆(8)	○	○	○	●	●	Outdoor unit fan motor 2 error (Duty error)
◆(2)	●	◆(9)	◆(9)	○	○	○	○	●	4-way valve error
◆(2)	●	◆(10)	◆(1)	○	○	○	○	●	Discharge temp. 1 error (stoppage permanently)
◆(2)	●	◆(10)	◆(3)	○	○	○	○	●	Compressor 1 temp. error (stoppage permanently)
◆(2)	●	◆(10)	◆(5)	○	○	○	○	●	Low pressure error

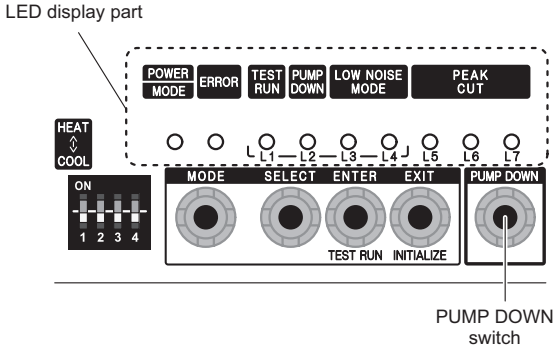
OUTDOOR UNIT
PUMP DOWN (Refrigerant collecting operation)

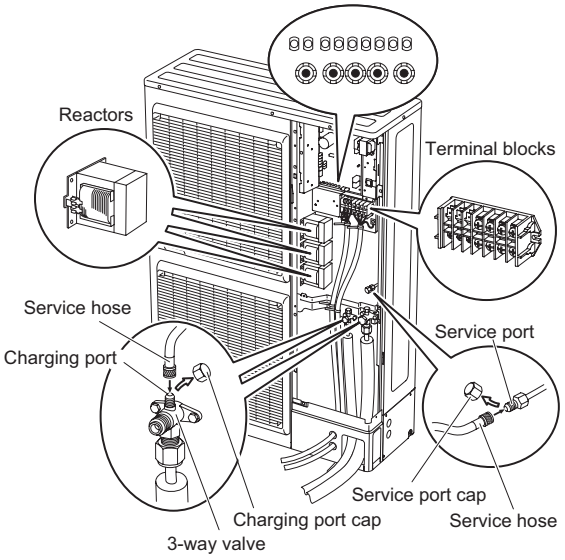
Perform the following procedures to collect the refrigerant when moving the indoor unit or outdoor unit

⚠ WARNING
Never touch electrical components such as the terminal blocks or reactor except the switch on the display board. It may cause a serious accident such as electric shock.

⚠ CAUTION
Perform the pump down operation before disconnecting any refrigerant pipe or electric cable.
Collect refrigerant from the service port or the 3-way valve if pump down cannot be performed.
In case of a group control system installation, do not turn the power off pump down is completed in all outdoor units. (Group control system installation described in “SPECIAL INSTALLATION METHODS” in the installation manual of the indoor unit.)

Operate [PUMP DOWN] switch on the display board in the manner described below.





1. Preparation for pump down

Confirm that the power is off,
and then open the service panel.

2. Pump down procedure

(1) Check the 3-way valves (both at the liquid side and gas side) are opened.

(2) Turn the power on.

POWER MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	(L4)	PEAK CUT (L5)	(L6)	(L7)
●	○	○	○	○	○	○	○	○

(3) Press [PUMP DOWN] switch for 3 seconds or more after 3 minutes after power on.

POWER MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	(L4)	PEAK CUT (L5)	(L6)	(L7)
●	○	○	●	○	○	●	●	●

LED display lights on as shown in the above figure, and the fans and the compressor start operating.

If the [PUMP DOWN] switch is pressed while the compressor is operating, the compressor will stop, then start again in about 3 minutes.

(4) LED display will change as shown below about 3 minutes after the compressor starts. Fully close the 3-way valve on the liquid pipe side at this stage.

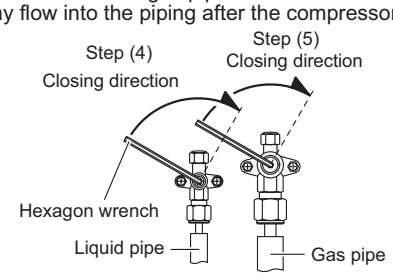
POWER MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	(L4)	PEAK CUT (L5)	(L6)	(L7)
●	○	○	●	○	○	○	●	●

If the valve on the liquid pipe side is not closed, the pump down cannot be performed.

(5) When LED display changes as shown in the below figure, close the 3-way valve on the gas pipe side tightly.

POWER MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	(L4)	PEAK CUT (L5)	(L6)	(L7)
●	○	○	●	○	○	○	○	●

If the valve on the gas pipe side is not closed, refrigerant may flow into the piping after the compressor stops



(6) LED display changes after 1 minute as shown in the figure below

POWER MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	(L4)	PEAK CUT (L5)	(L6)	(L7)
●	○	○	●	○	○	○	○	○

Fans and compressor stop automatically.

If the pump down is successfully completed (the above LED display is shown), the outdoor unit remains stopped until the power is turned off.

(7) Turn the power off.

POWER MODE	ERROR	TEST RUN (L1)	PUMP DOWN (L2)	LOW NOISE (L3)	(L4)	PEAK CUT (L5)	(L6)	(L7)
○	○	○	○	○	○	○	○	○

PUMP DOWN is completed.

(Note)

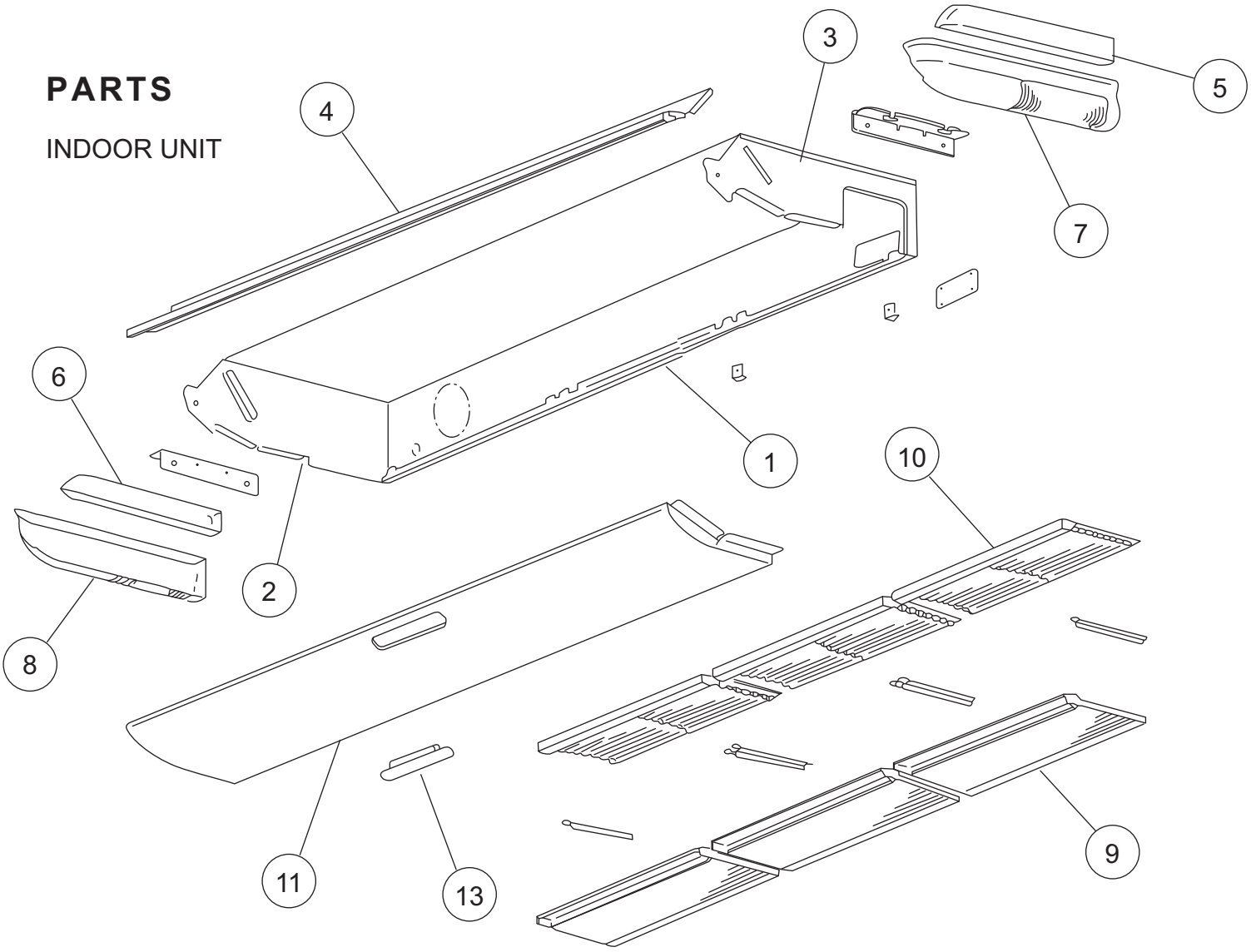
To stop pump down, press the [PUMP DOWN] switch again.

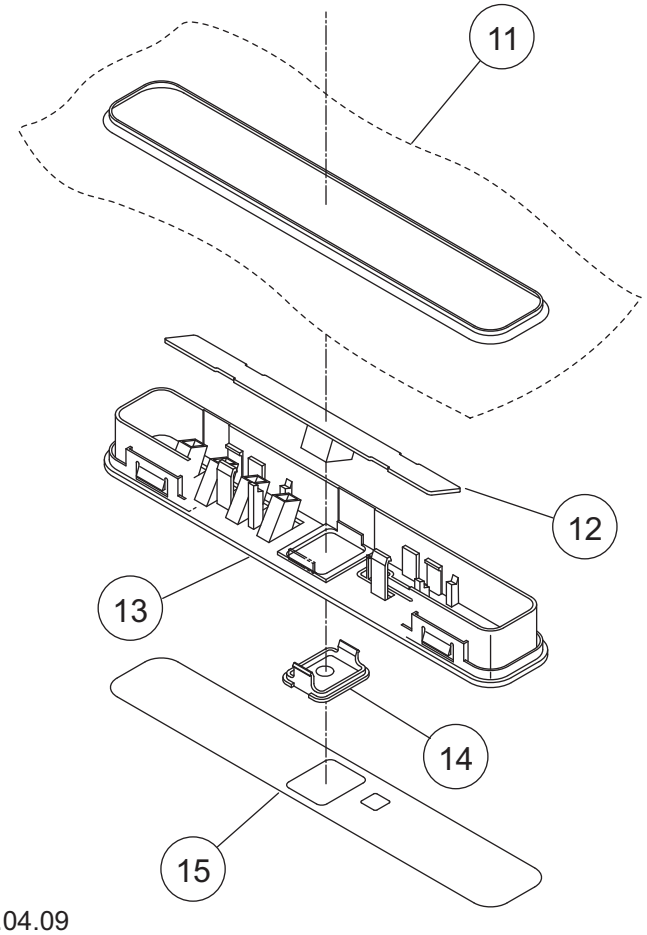
To start the pump down again after the compressor is automatically stopped due to an error, turn the power off and open the 3-way valves. Wait 3 minutes, turn the power on and start the pump down again.

When starting the operation after completion of the pump down, turn the power off, and then open the 3-way valves. Wait 3 minutes, turn the power on and perform a test run in the “COOL” operation mode.

PARTS

INDOOR UNIT

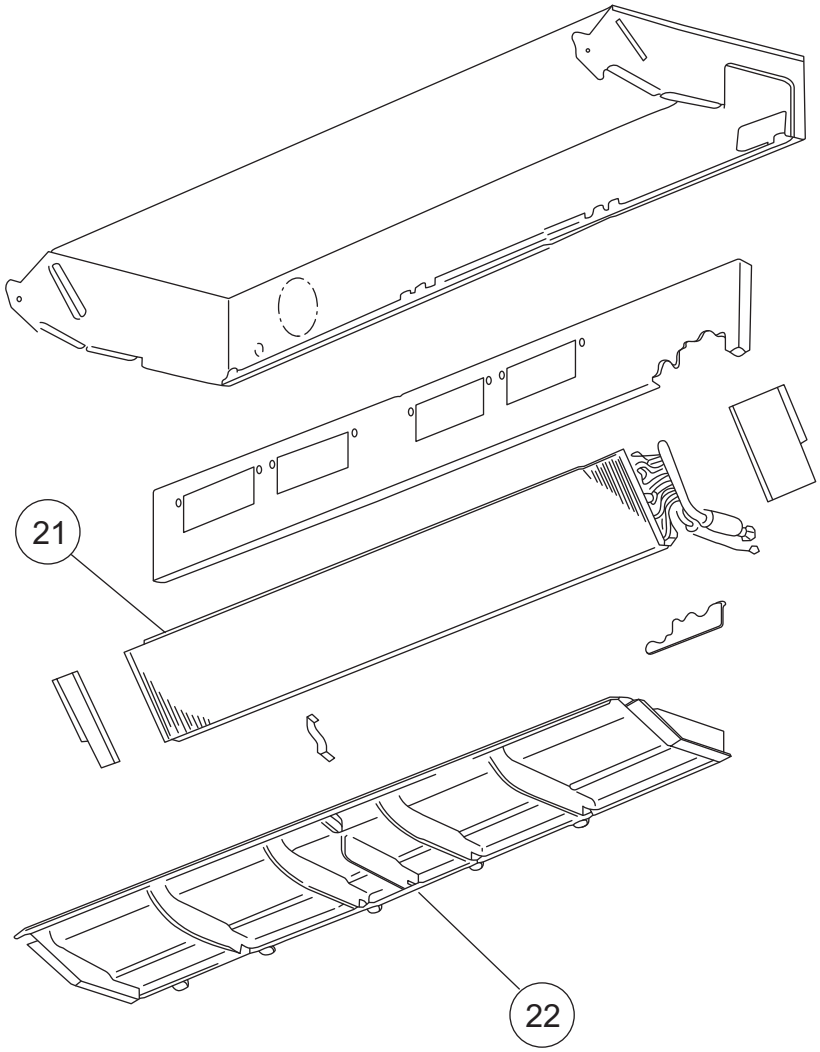


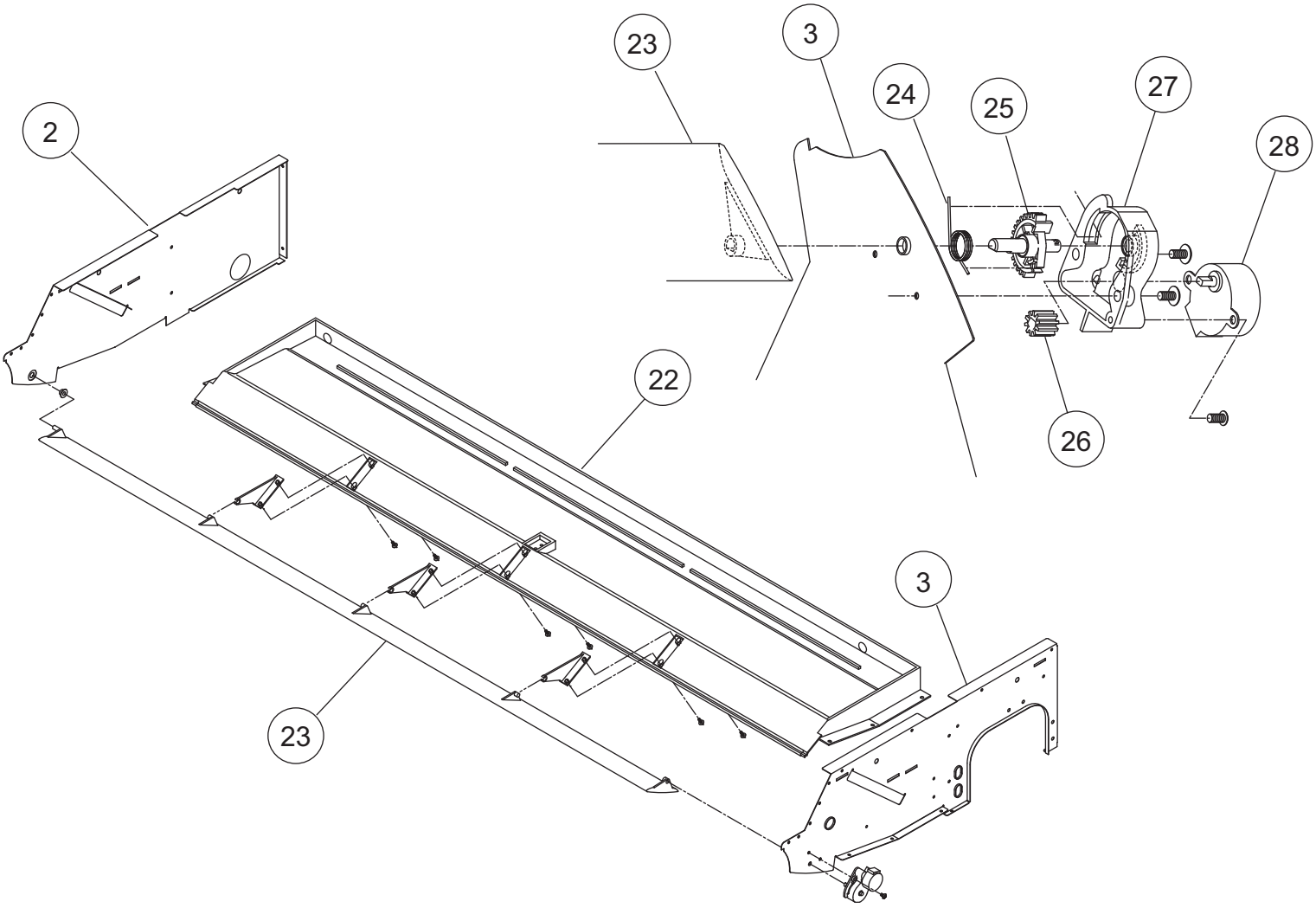


Ref.	Description	Part number	
1	Kit (Base Sub Assy)	9371360010	
2	Panel Left Sub Assy	9360427014	
3	Kit (Panel Right Assy)	9371361017	
4	Top Cover	9359737018	
5	Cover (Decoration) R	9359744016	
6	Cover (Decoration) L	9359745013	
7	Kit (Side Cover R)	9371364025	
8	Kit (Side Cover L)	9371365022	
9	Intake Grille	9359738015	
10	Air Filter	9359739012	
11	Front Panel	9359734017	
12	Indicator PCB	9705891050	
13	PCB Holder	9359736011	
14	Receiver Cover	9359714002	
15	Badge	9359735175	

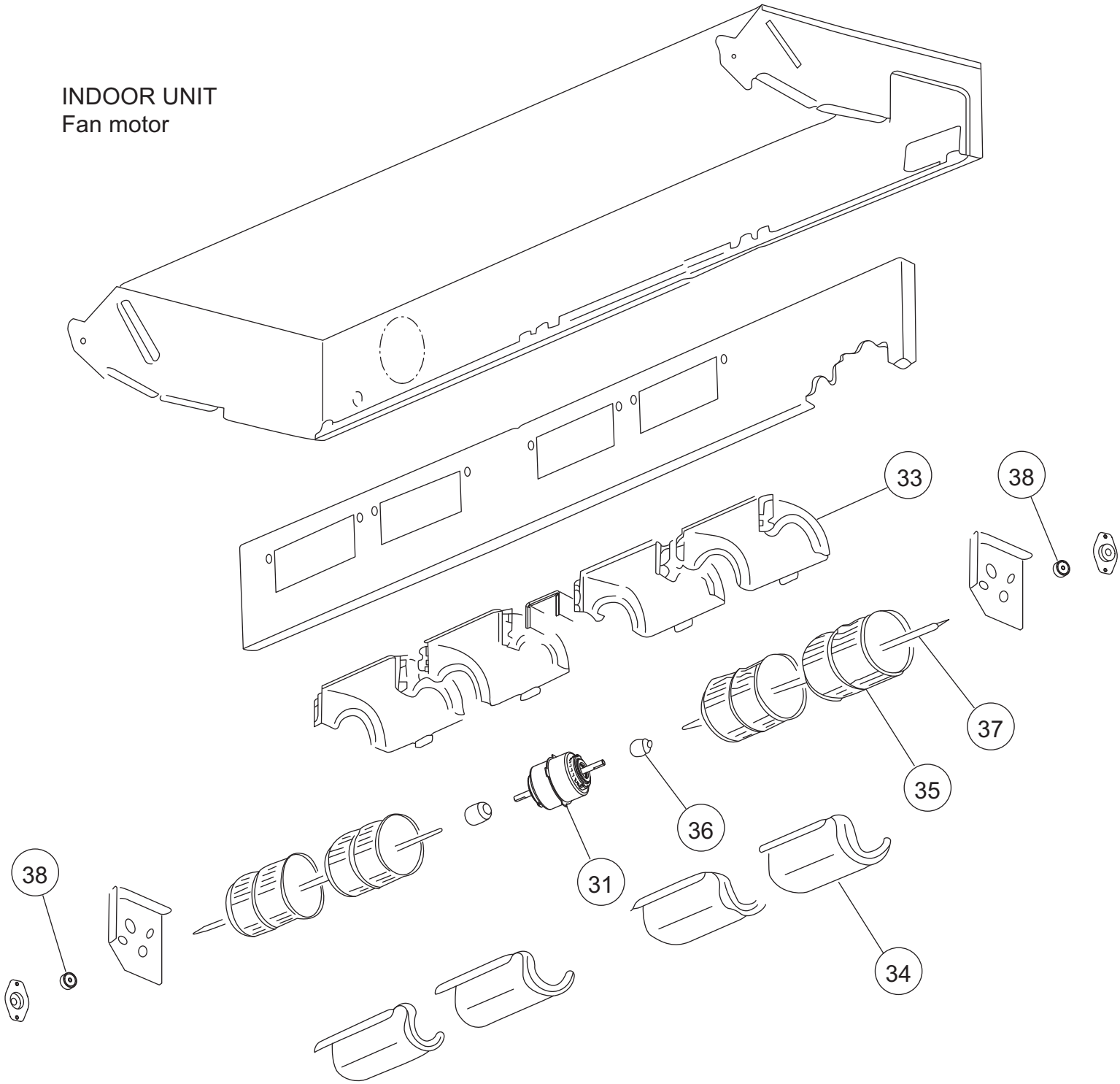
INDOOR UNIT
Drain pan, Flap

Ref.	Description	Part number	
2	Panel Left Sub Assy	9360427014	
3	Kit (Panel Right Assy)	9371361017	
21	Evaporator Sub Assy (36, 45)	9360428264	
21	Evaporator Sub Assy (54)	9360428301	
22	Drain Pan Sub Assy	9360429032	
23	Flap Assy	9359731016	
24	Flap Spring	9359730002	
25	Sector Gear	9359729006	
26	Pinion Gear	9359728009	
27	Motor Base	9359727002	
28	Step Motor V	9900362010	
--	Drain Cap	9358746004	
--	Pipe Thermistor	9900022020	

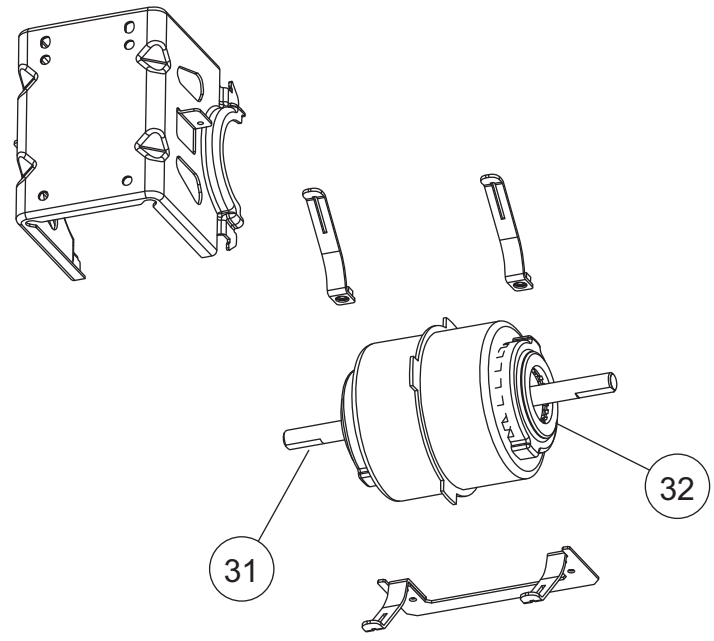




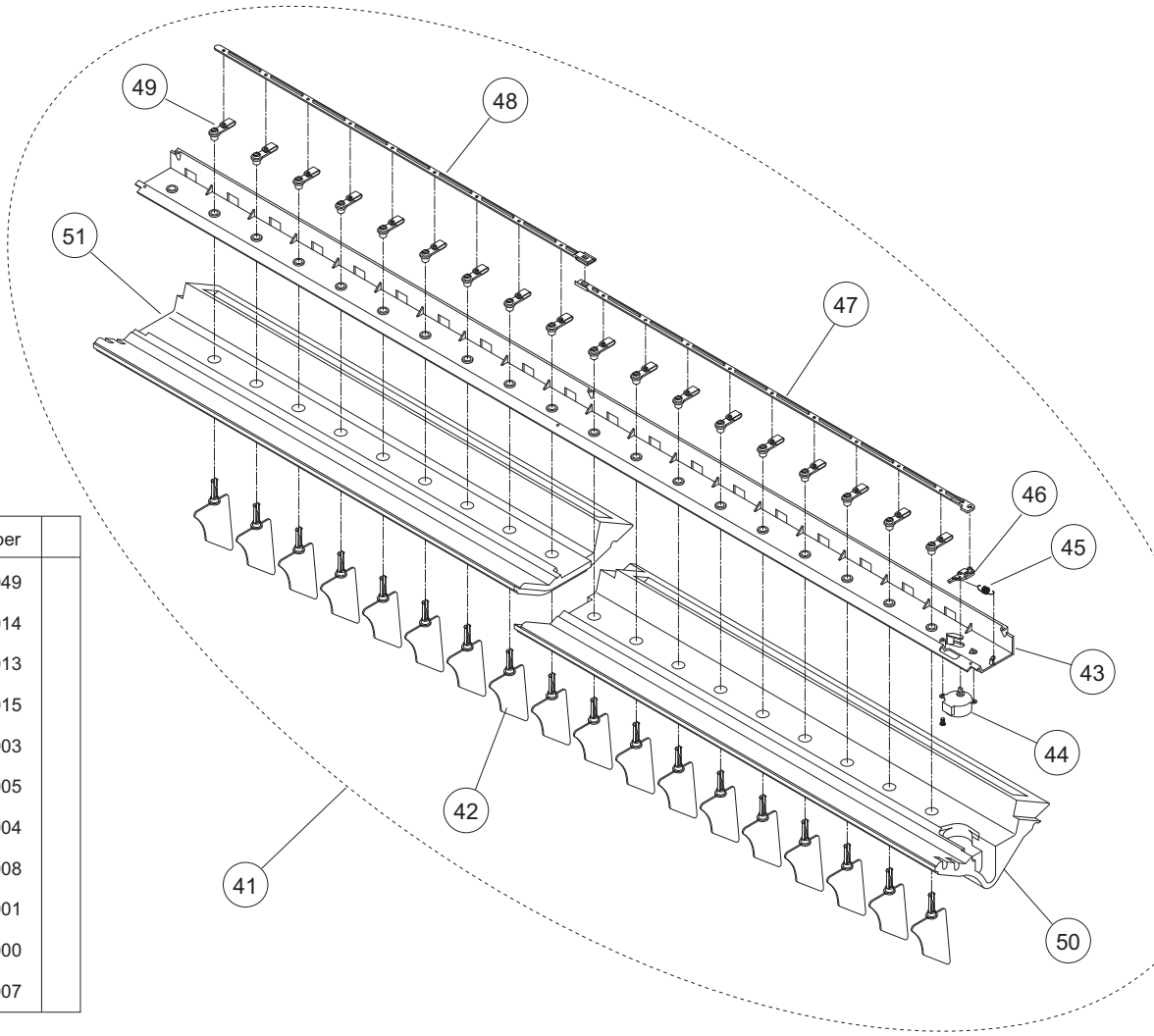
INDOOR UNIT
Fan motor



Ref.	Description	Part number	
31	Fan Motor Assy	9603167011	
32	Rubber	9385102002	
33	Casing	9359704003	
34	Kit (Cover Casing) Sub Assy	9371367019	
35	Sirocco Fan Assy	9359701002	
36	Joint Assy	9378038011	
37	Shaft	9359707004	
38	Bearing B Assy	9357921006	

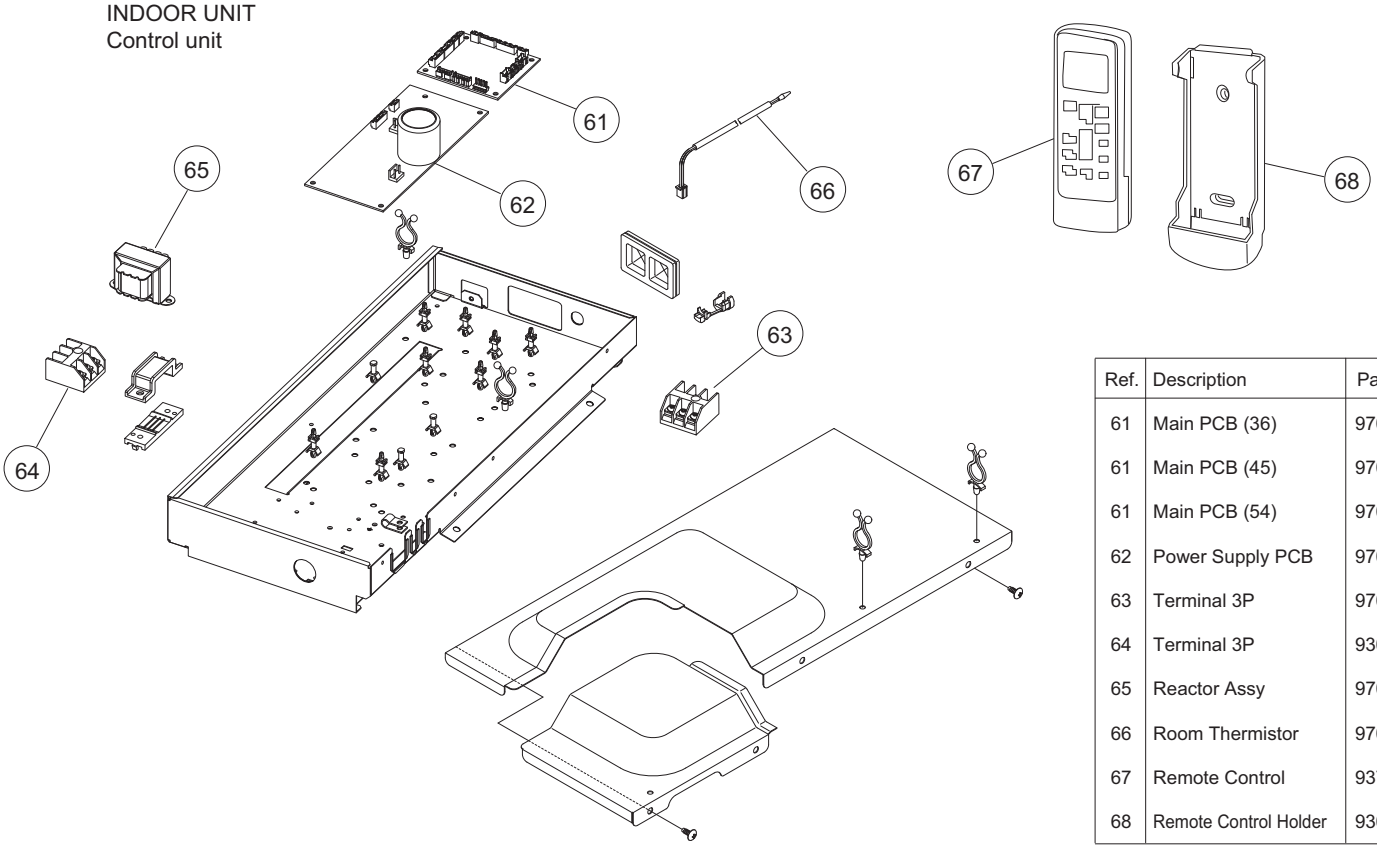


INDOOR UNIT
Louver Base Sub Assy



Ref.	Description	Part number	
41	Louver Base Sub Assy	9360432049	
42	Louver	9359719014	
43	kit (Louver Base) Sub Assy	9371369013	
44	Step Motor H	9900297015	
45	Louver Spring	9359720003	
46	Louver Link	9359726005	
47	Motor Rod	9359723004	
48	Louver Rod	9359725008	
49	Louver Stopper	9359724001	
50	Louver Insulation R	9359721000	
51	Louver Insulation L	9359722007	

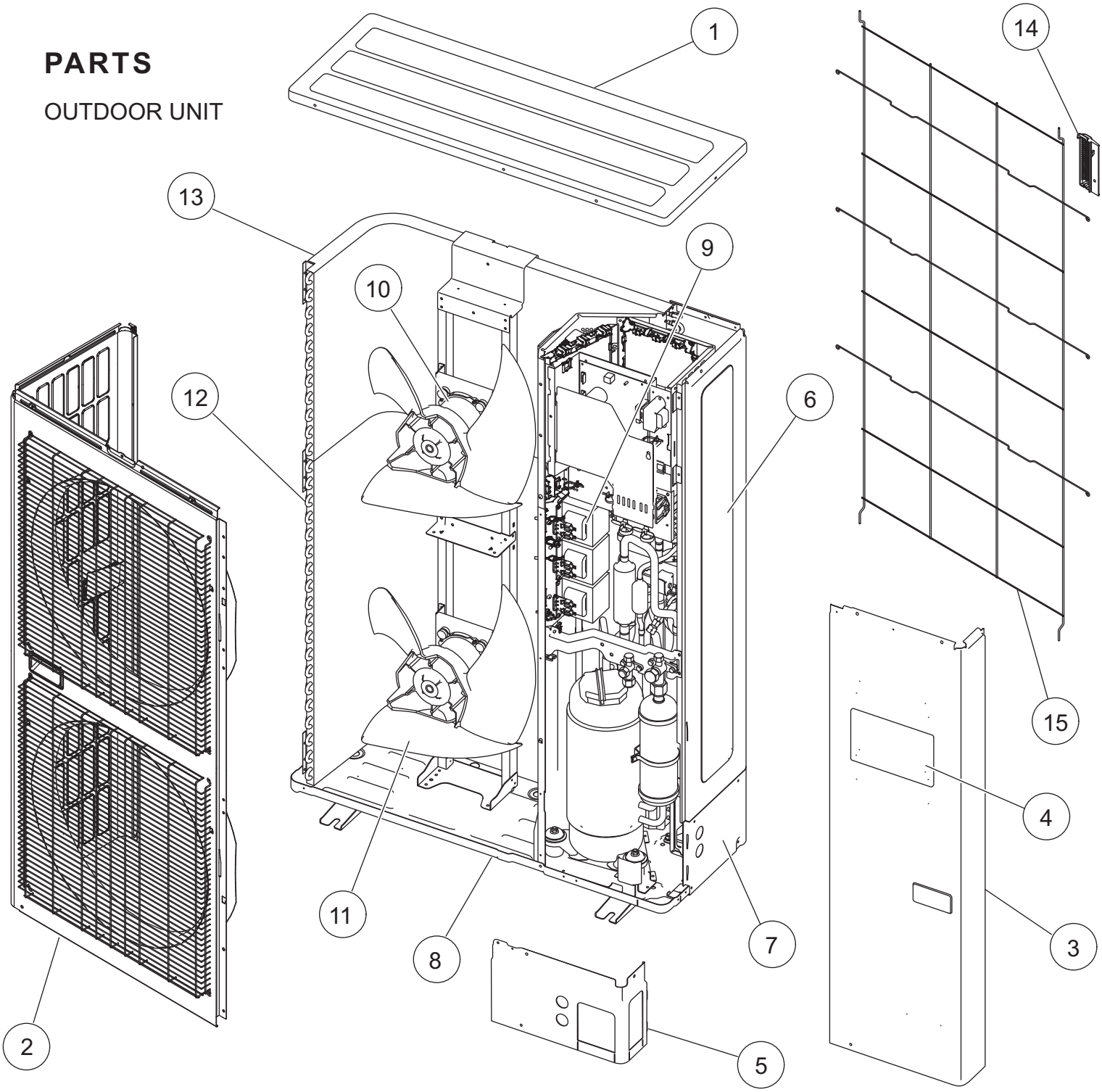
INDOOR UNIT
Control unit



Ref.	Description	Part number	
61	Main PCB (36)	9709245002	
61	Main PCB (45)	9709245019	
61	Main PCB (54)	9709245026	
62	Power Supply PCB	9707398342	
63	Terminal 3P	9703345012	
64	Terminal 3P	9306489045	
65	Reactor Assy	9707457018	
66	Room Thermistor	9703299025	
67	Remote Control	9379219037	
68	Remote Control Holder	9305642045	

PARTS

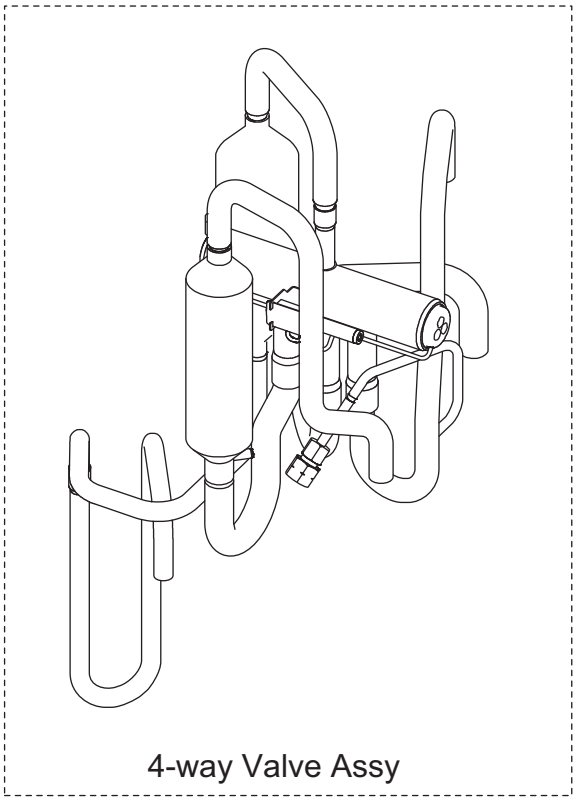
OUTDOOR UNIT



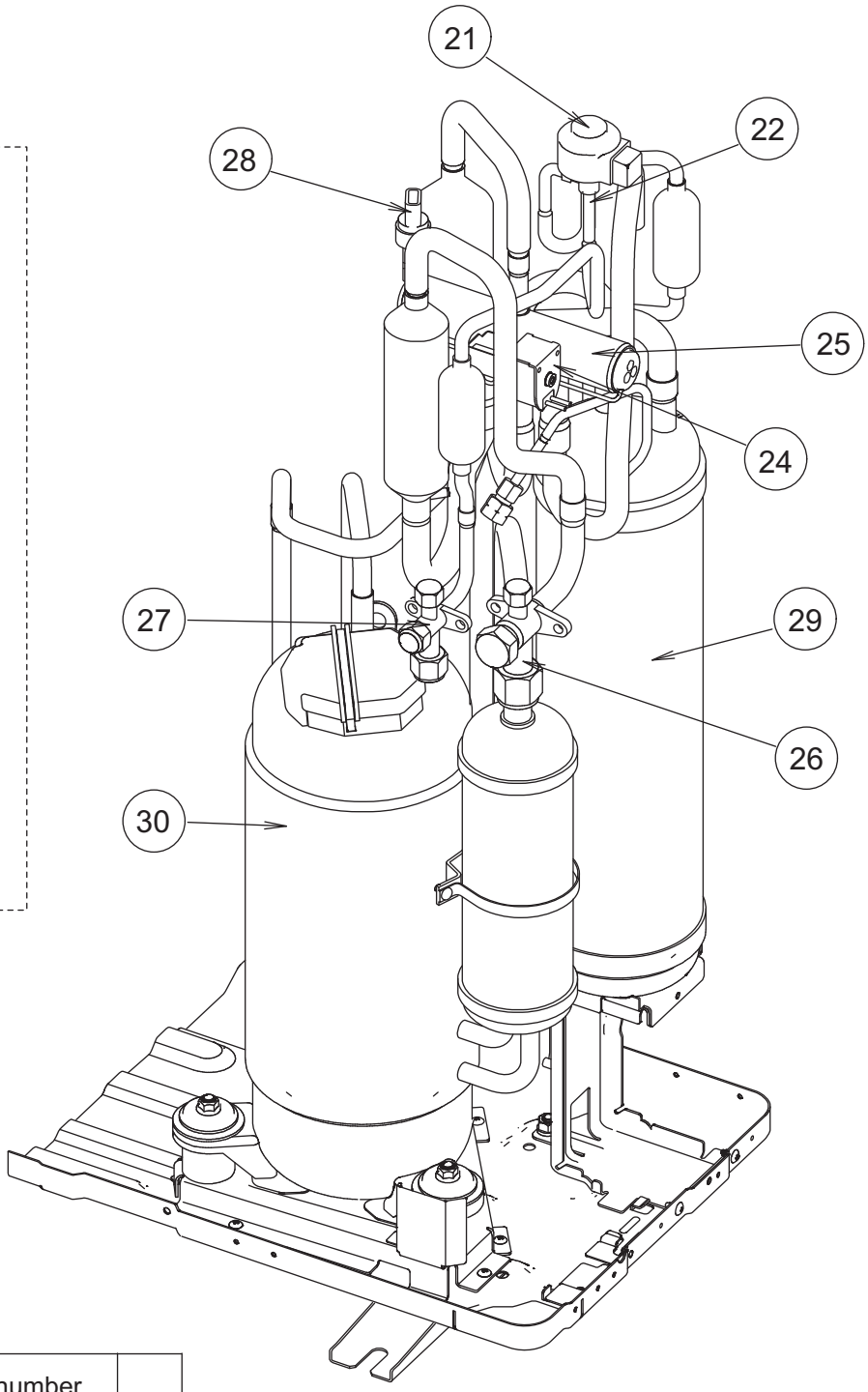
Ref.	Description	Parts number	
1	Top Panel Sub Assy	9374417032	
2	Front Panel Sub Assy	9374414130	
3	Sevice Panel Sub Assy	9374415076	
4	Emblem Rear	9351355005	
5	Pipe Cover Front	9378861015	
6	Right Panel	9378863019	
7	Pipe Cover Rear	9378862012	
8	Base Assy	9374166220	

Ref.	Description	Parts number	
9	Reactor Assy	9900641016	
10	Motor, DC Brushless	9602843046	
11	Propeller Fan Assy	9366378020	
12	Condenser A Sub Assy	9374420261	
13	Condenser B Sub Assy	9374422081	
14	Thermo Holder	9375211011	
15	Protective Net	9375381042	

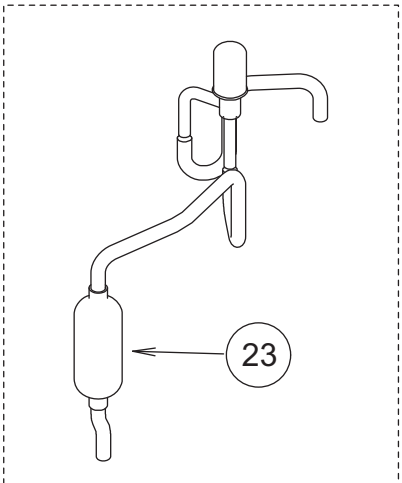
OUTDOOR UNIT



4-way Valve Assy

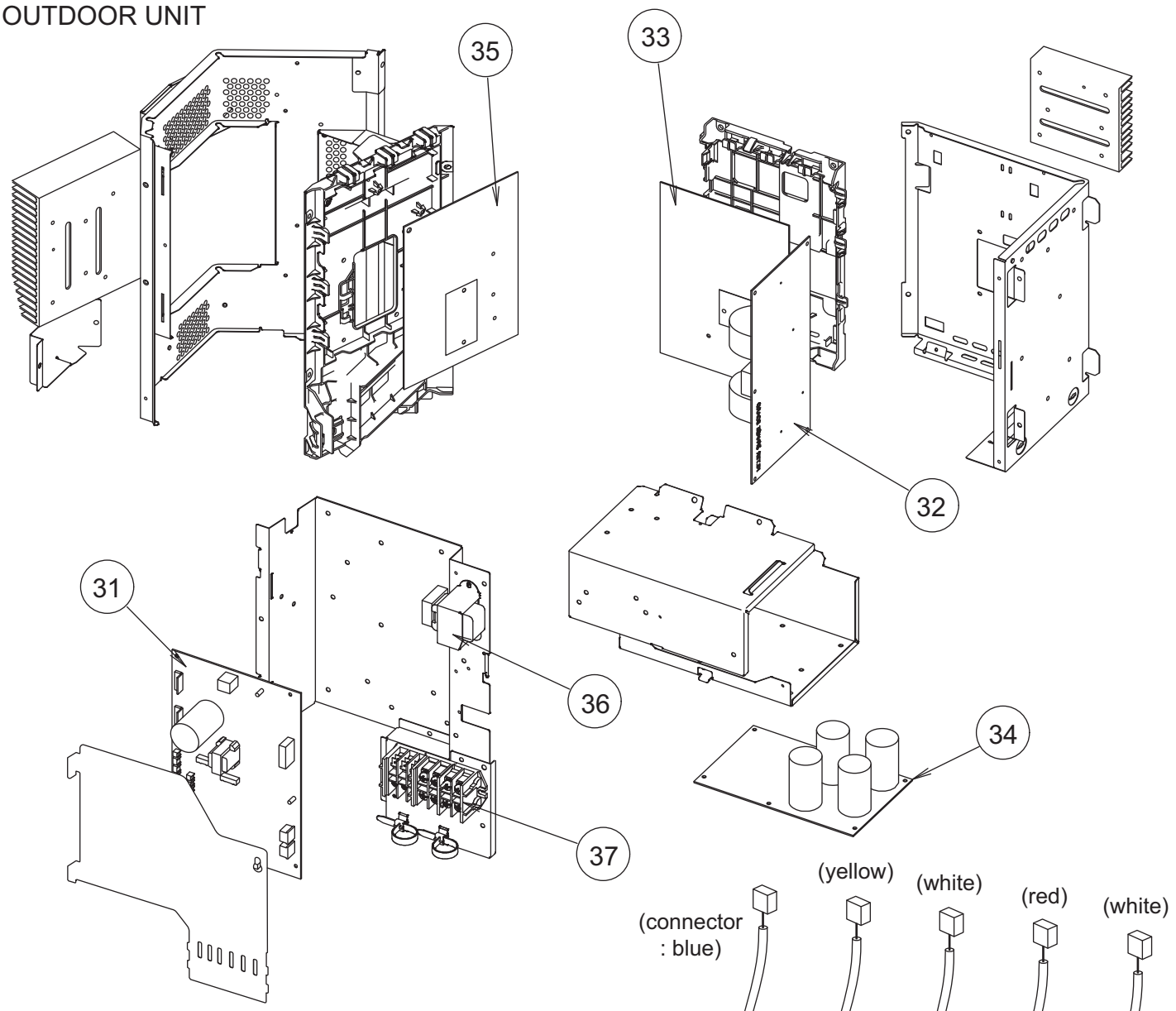


Ref.	Description	Parts number	
21	Expansion Valve Coil	9900190057	
22	Expansion Valve Assy	9370947182	
23	Strainer Assy	9372524039	
24	Solenoid	9970113024	
25	4-way Valve Assy	9374425273	
26	3-way Valve Assy	9379079006	
27	3-way Valve Assy	9379077002	
28	Sensor	9900505011	
29	Accumulator Assy	9375250096	
30	Compressor Sub Assy	9374423286	



Expansion Valve Assy

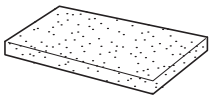
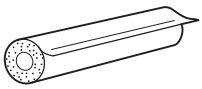
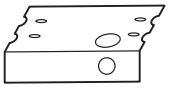
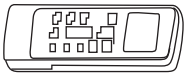
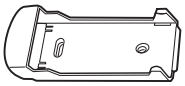
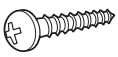
OUTDOOR UNIT



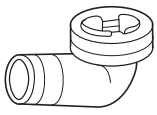
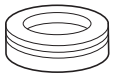
Ref.	Description	Parts number	
31	Main PCB (36)	9707627060	
31	Main PCB (45)	9707627077	
31	Main PCB (54)	9707627084	
32	Filter PCB	9707609011	
33	Active Filter PCB	9709008010	
34	Capacitor PCB	9707608014	
35	Transistor PCB	9709010020	
36	Reactor Assy	9900481018	
37	Terminal	9900428082	
38	Compressor Thermistor	9900516000	
39	Discharge Thermistor	9900515003	
40	Thermistor (Heat Exchanger Mid)	9900513009	
41	Thermistor (Heat Exchanger Out)	9900514006	
42	Outdoor Thermistor	9900517007	
43	Heatsink Thermistor (Inverter)	9900518011	
44	Heatsink Thermistor (PFC)	9900518028	

ACCESSORIES

INDOOR UNIT

Name and Shape	Q'ty	Application	Part number
Drain hose insulation 	1	Adhesive type 70 x 230	9360464002
VT wire	1	For fixing the drain hose L 280 mm	313806350303
Coupler heat insulator (large) 	2	For indoor side pipe joint (gas pipe)	9378173569
Coupler heat insulator (small)	1	For indoor side pipe joint (liquid pipe)	9378173521
Cable tie	Large 4	For fixing the coupler heat insulator	9301501001
	Small 4		312300787605
Special nut A (large flange)	4	For installing indoor unit	313005446653
Special nut B (small flange)	4	For installing indoor unit	313005446759
Installation template 	1	For positioning the indoor unit	9360022004
Auxiliary pipe assembly	1	For connecting the piping	9374714025
Remote control 	1	For air conditioner operation	9379219037
Remote control holder 	1	For installing remote control on the wall	9305642045
Battery	2	For remote control	0600185541
Tapping screw 	2	For mounting the remote control holder	0700019036

OUTDOOR UNIT

Name and Shape	Q'ty	Application	Part number
Drain pipe 	1	For drain piping work	9303029015
Drain cap 	2	For drain piping work	313166024302
One-touch bush	2	For drain piping work	9378779013

OPTIONAL PARTS

Parts name	Model name	Use
Wired remote control	UTY-RNN*M	Unit control is performed by wired remote controller
Simple remote control	UTY-RSN*M	For air conditioner operation
Drain pump unit	UTR-DPB24T	
Round duct	UTD-RF204	To take fresh air
External connect kit	UTY-XWZX	For control input/output port

1204G4041