



SPLIT TYPE ROOM AIR CONDITIONER

WALL MOUNTED type

SERVICE MANUAL



Models	Indoor unit	Outdoor unit
	RS-9UA RS-12UC	RO-9UA RO-12UC

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SPECIFICATIONS

TYPE	COOLING & HEATING	
INDOOR UNIT	RS-9UA	RS-12UC
OUTDOOR UNIT	RO-9UA	RO-12UC
COOLING CAPACITY (kW)	2.90	3.70
HEATING CAPACITY (kW)	3.05	4.00

ELECTRICAL DATA

POWER SOURCE		230V 50Hz	
RUNNING CURRENT (A)	COOL	3.7	5.0
	HEAT	3.3	4.6
INPUT WATTS (kW)	COOL	0.84	1.13
	HEAT	0.75	1.04
E.E.R (kW/kW)	COOL	3.45	3.27
	HEAT	4.07	3.85
MOISTURE REMOVAL (ℓ /hr)		1.3	1.9
AIR CIRCULATION-Hi (m³/hr)		COOL 600 HEAT 600	COOL 700 HEAT 675

COMPRESSOR

TYPE	Hermetic type, Permanent split condenser, 2 pole, Single phase, Induction motor	
DISCRIMINATION	GK113PAC	GK151PAB
POWER SOURCE	220, 230, 240V / 50Hz	220-240V / 50Hz
REFRIGERANT R410A (g)	900	970

FAN MOTOR

POWER SUPPLY (V)		230		230	
INDOOR UNIT (r.p.m)	Hi-SPEED	COOL 1250	HEAT 1250	COOL 1450	HEAT 1400
	MED-SPEED	COOL 1100	HEAT 1120	COOL 1250	HEAT 1230
	LO-SPEED	COOL 950	HEAT 990	COOL 1050	HEAT 1060
	S-LO	COOL 800	HEAT 860	COOL 850	HEAT 900
OUTDOOR UNIT (r.p.m)		730		820	

DIMENSIONS

INDOOR UNIT H x W x D (mm)	275 x 790 x 215	
OUTDOOR UNIT H x W x D (mm)	535 x 695 x 250	535 x 780 x 250

WEIGHT

INDOOR UNIT GROSS / NET (kg)	12 / 9	
OUTDOOR UNIT GROSS / NET (kg)	33 / 30	37 / 35

NOISE LEVEL

INDOOR UNIT (dB)	Hi-SPEED	COOL 40 HEAT 39	COOL 45 HEAT 43
	MED-SPEED	COOL 36 HEAT 35	COOL 41 HEAT 39
	LO-SPEED	COOL 32 HEAT 31	COOL 35 HEAT 34
	S-LO	COOL 27 HEAT 26	COOL 29 HEAT 28
OUTDOOR UNIT (dB)		COOL 45 HEAT 46	COOL 48 HEAT 49

REFRIGERANT CHARGE (R410A)

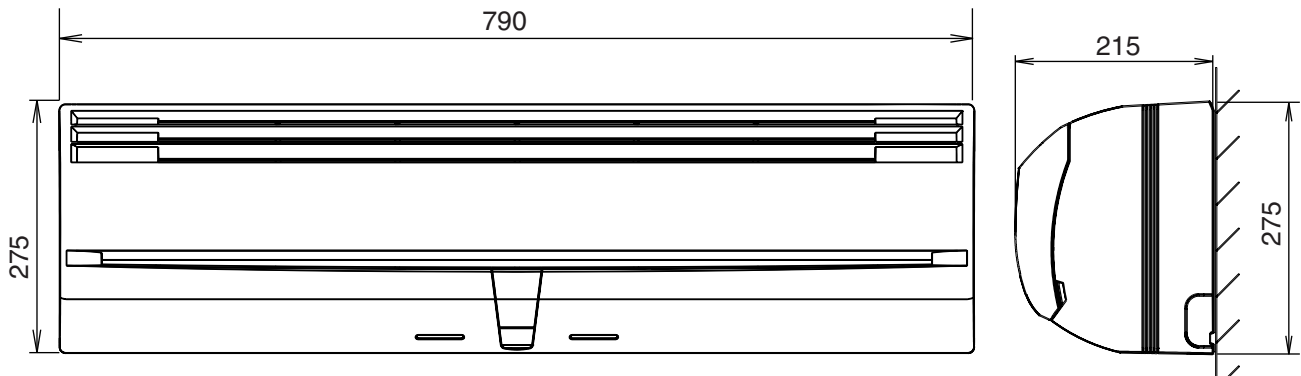
FULL CHARGE AMOUNT	PIPE LENGTH 7.5 m	900 g	970 g
	10 m	950 g	1,020 g
	15 m	1,050 g	1,120 g
ADDITIONAL REFRIGERANT		20 g / m	

DIMENSIONS

Unit : mm

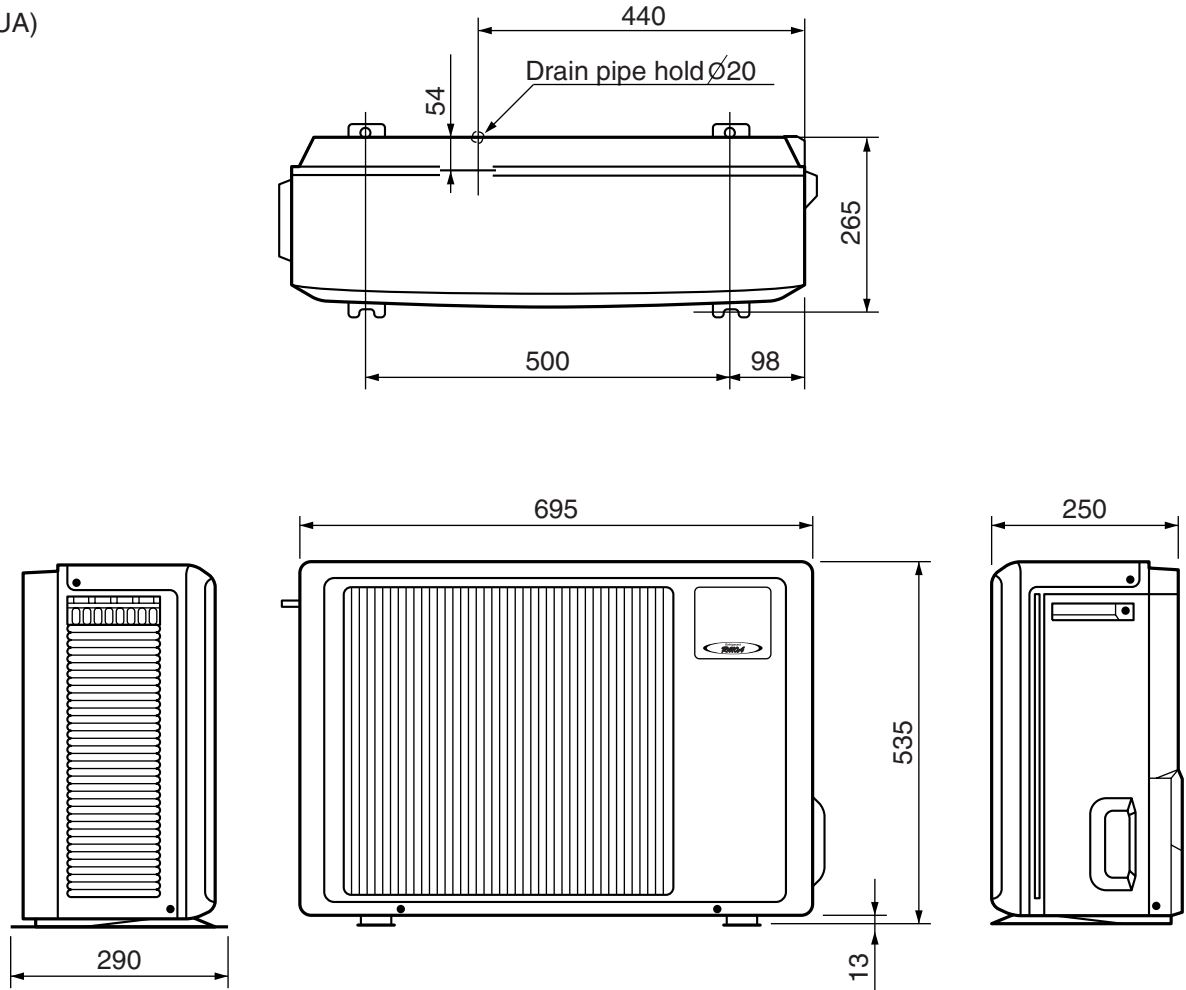
INDOOR UNIT

(RS-9UA, RS-12UC)

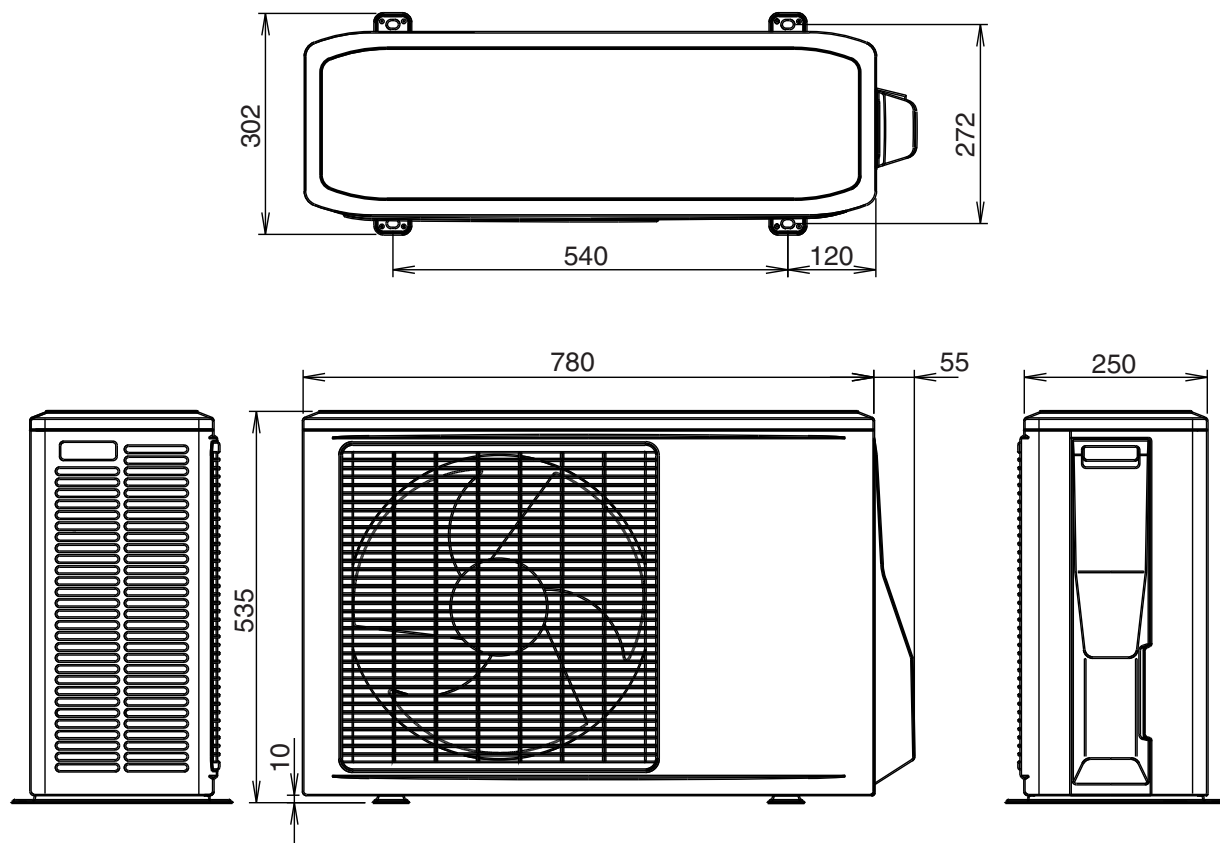


OUTDOOR UNIT

(RO-9UA)

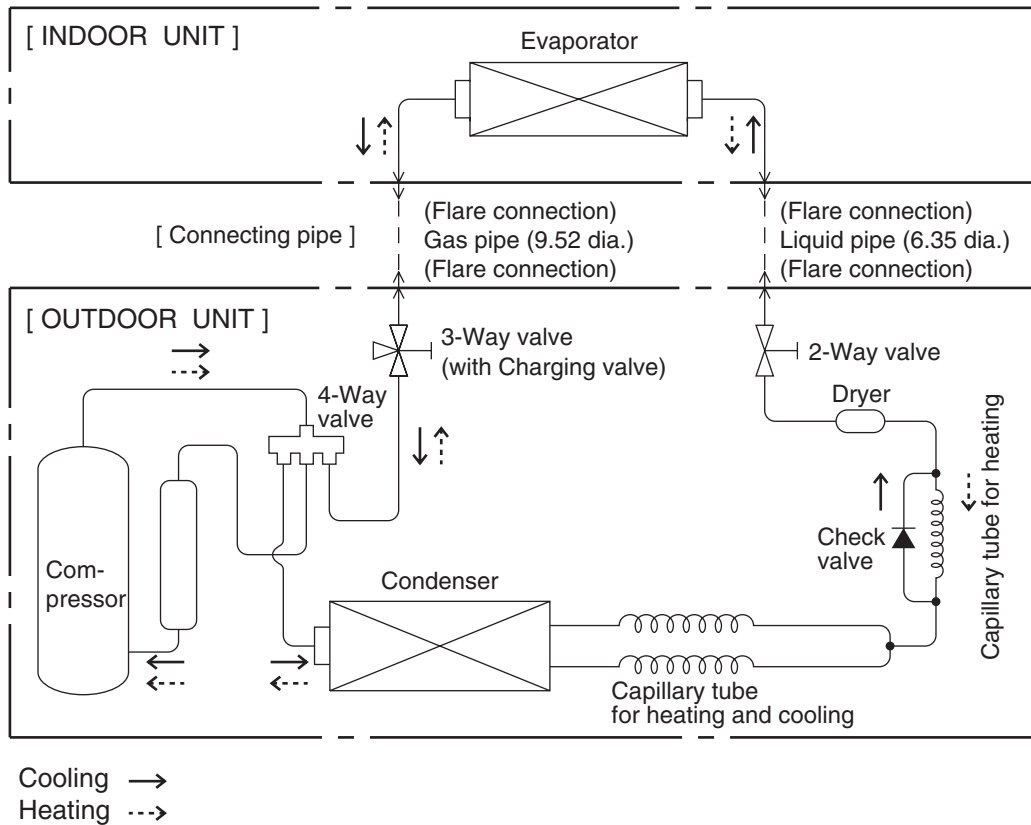


(RO-12UC)



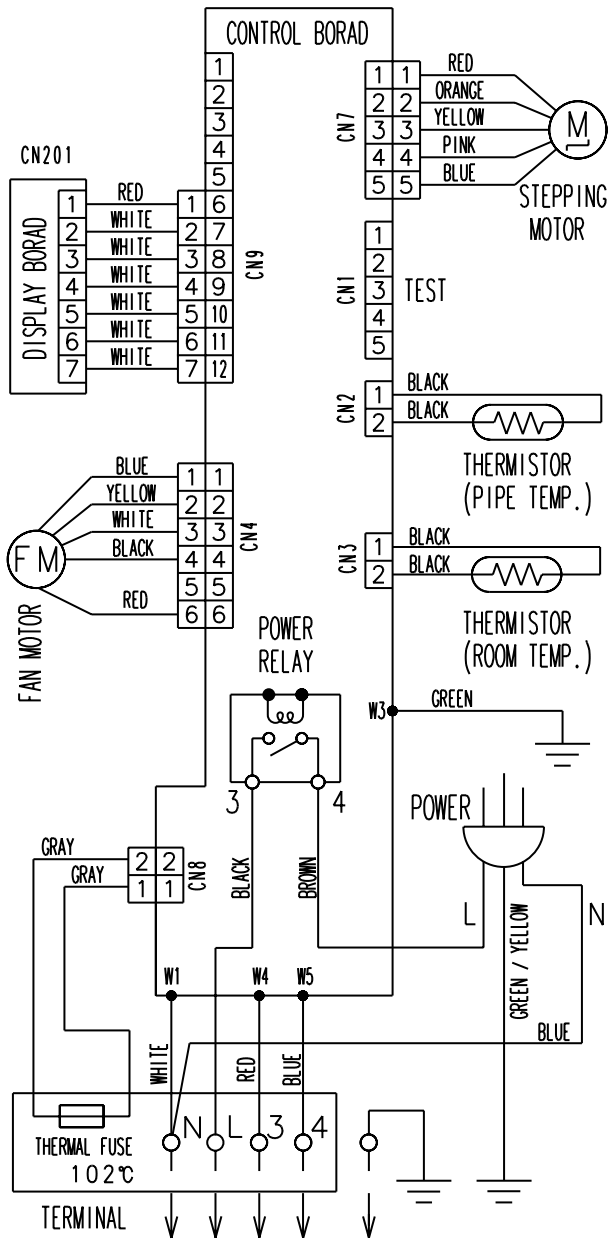
REFRIGERANT SYSTEM DIAGRAM

**Models : RS-9UA / RO-9UA
RS-12UC / RO-12UC**

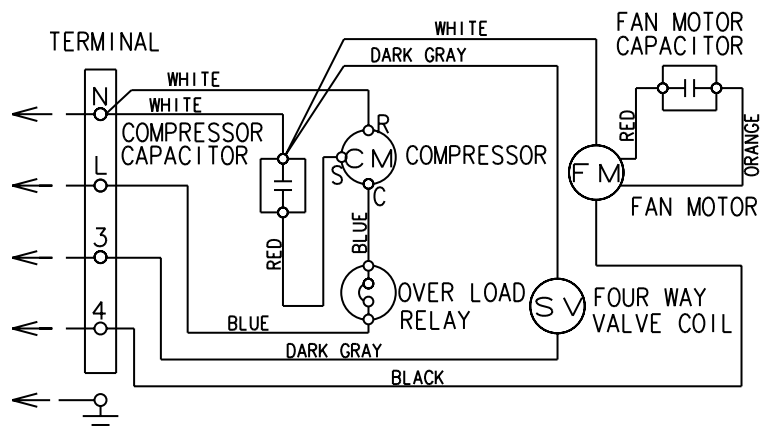


CIRCUIT DIAGRAM

**Models : RS-9UA
RS-12UC**



**Models : RO-9UA
RO-12UC**



Models : RS-9UA I N D O O R P C B C I R C U I T D I A G R A M



ERROR DISPLAY

Troubleshooting check table

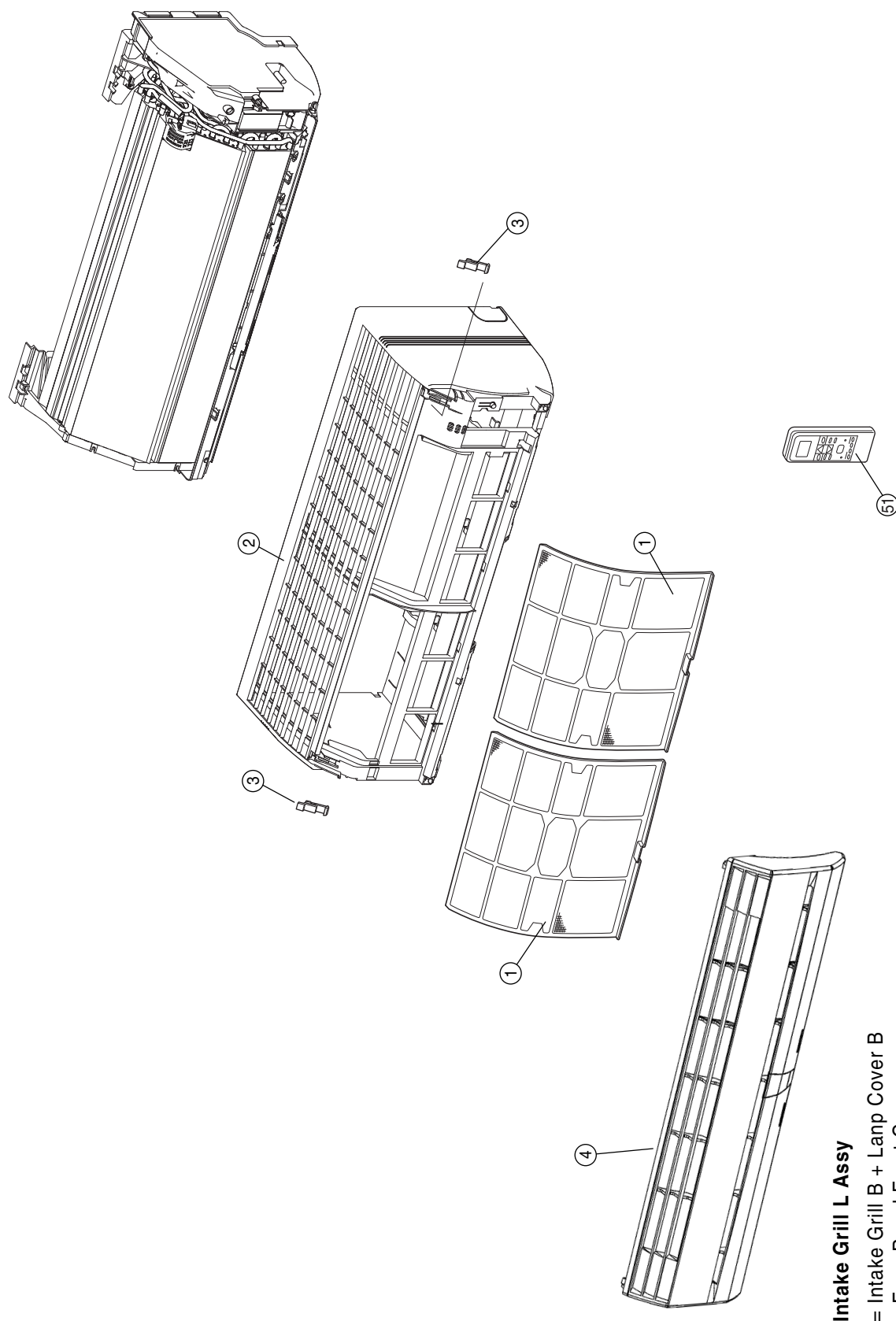
Operation lamp : Red lamp
 Timer lamp : Green lamp

Large division indication			Small division indication		
Error contents	LED indication		Error contents	LED indication	
thermistor error	RED lamp Green lamp	● (2 times) ○	thermistor error (room temp.)	RED lamp Green lamp	○ ● (2 times)
			thermistor error (heat exchanger)	RED lamp Green lamp	○ ● (3 times)
control unit error (indoor unit)	RED lamp Green lamp	● (4 times) ○	MANUAL AUTO button error	RED lamp Green lamp	○ ● (2 times)
			power source Hz decision error	RED lamp Green lamp	○ ● (4 times)
fan motor error (indoor unit)	RED lamp Green lamp	● (6 times) ○	lock error	RED lamp Green lamp	○ ● (2 times)
			rpm error	RED lamp Green lamp	○ ● (3 times)

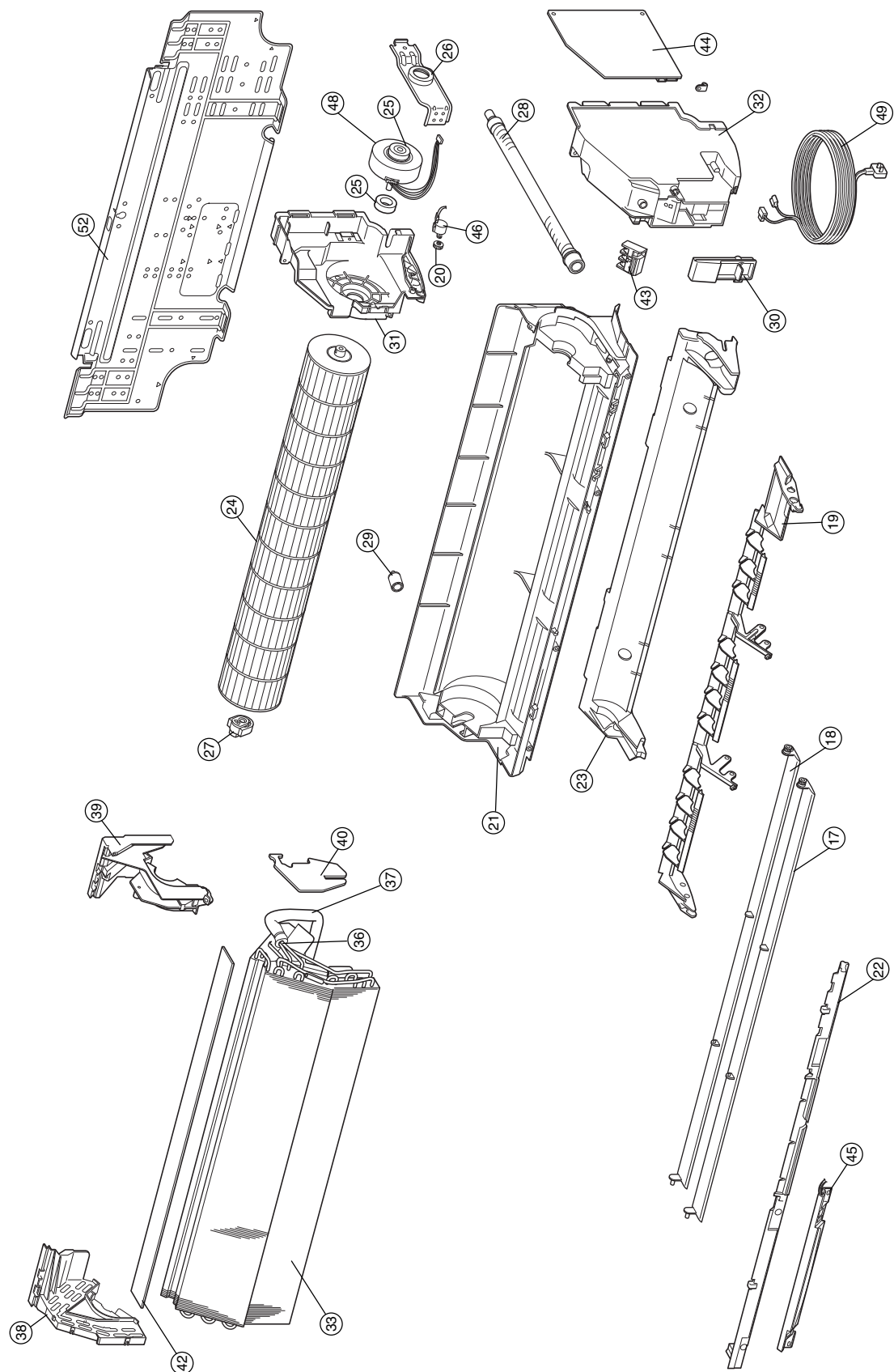
● : 0.5s ON/OFF repeated
 ○ : 0.1s ON/OFF repeated

DISASSEMBLY ILLUSTRATION

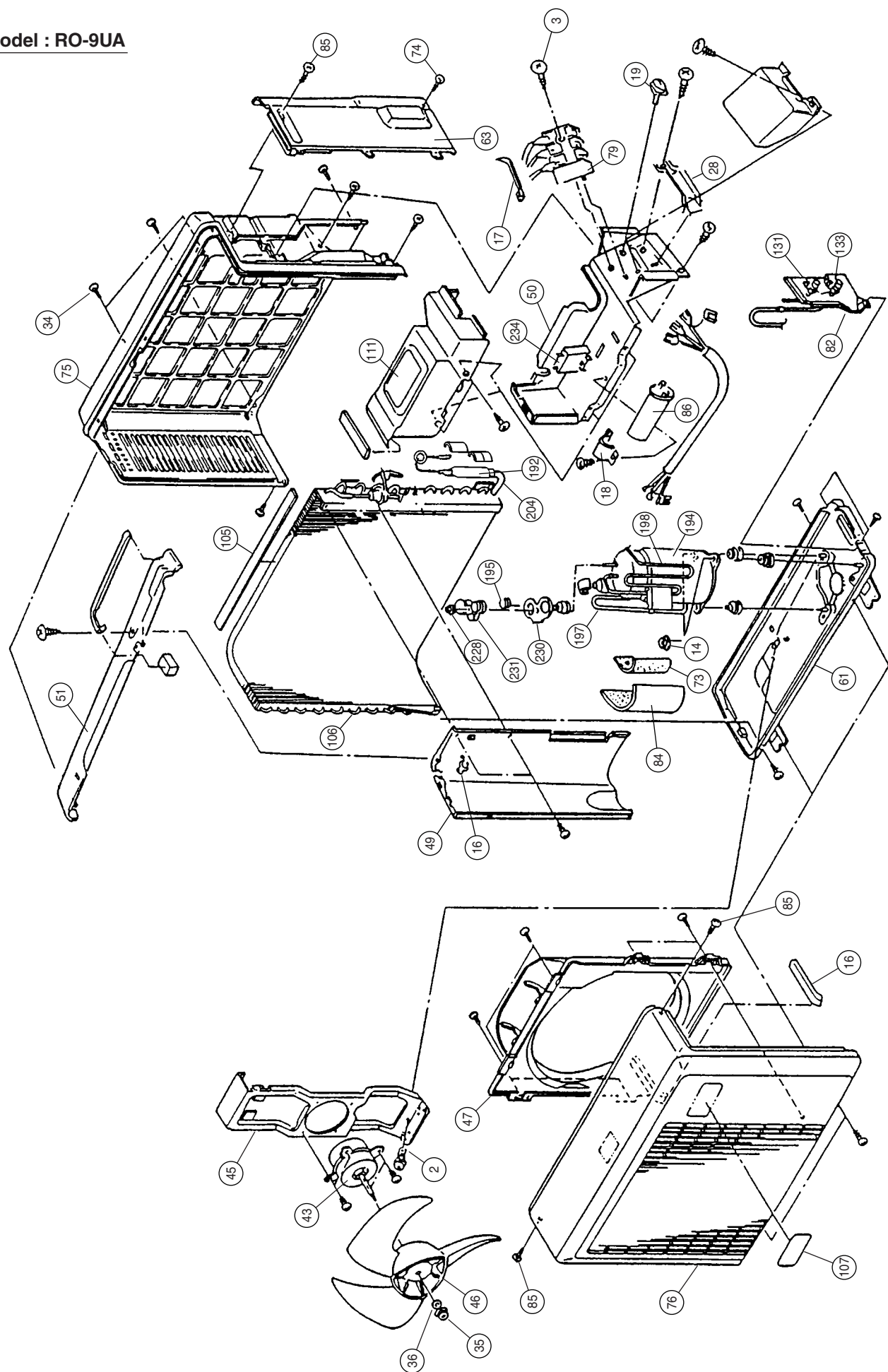
Models : RS-9UA
RS-12UC



**Models : RS-9UA
RS-12UC**



Model : RO-9UA



This technical drawing is an exploded view of a mechanical assembly, likely a portable electronic device or a small machine. The components are labeled with circled numbers, indicating their relative positions and assembly sequence. The main body of the device is shown at the bottom right, featuring a large rectangular panel (128) and a circular component (125). A control panel or display area is located at the top left, with a grid of buttons or indicators (151). A central cylindrical component (226) is connected to various internal parts, including a motor or pump (230) and a control unit (176). The diagram also shows a carrying handle (145) and a base (129). The exploded view illustrates the relationship between the main body, the control panel, the internal components, and the external accessories like the handle and base.

PARTS LIST

INDOOR UNIT

Ref. No.	Description	Part No.		Ord. Q'ty
		RS-9UA	RS-12UC	
1	Air Filter	9309997011	9309997011	
2	Front Panel Assy	9312099023	9312099023	
3	Clamper(Grille)	9306755010	9306755010	
4	Intake Grill-L Assy	9312142033	9312142033	
20	Gear-A	9309994003	9309994003	
21	Casing Assy	9312112036	9312112036	
23	Cover(Casing)-B	9311916017	9311916017	
24	Cross-Flow Fan Assy	9307836015	9307836015	
25	Motor Cushion-B	9306274009	9306274009	
26	Clamper (Motor)	9310102008	9310102008	
27	Shaft Holder-C Assy	9306628017	9306628017	
28	Drain hose Assy	9310357019	9310357019	
29	Drain Cap Assy	9304150008	9304150008	
30	Wire Clamper	9311946014	9311946014	
31	Box (Switch)	9309996014	9309996014	
32	Cover (Switch)	9311863014	9311863014	
33	Evaporator Total Assy	9311495017	9311495017	
36	Joint Pipe Assy E	9311497011	9311497011	
37	Insulation (Pipe) -E	9304607007	9304607007	
38	Holder (Evaporator) -L	9309982017	9309982017	
39	Holder (Evaporator) -R	9309983014	9309983014	
40	Water Seal	9310721001	9310721001	
42	Air Seal	9310611005	9310611005	
43	Terminal	9701955077	9701955077	
44	Controller PCB Assy	9704903044	9704903051	
46	Step Motor	9900139025	9900139025	
48	Fan Motor Assy-IN	9601423027	9601423027	
51	Remote Control Unit	9312058020	9312058020	
52	Bracket Panel	9310001004	9310001004	
---	Flow Control Panel-U	9309991026	9309991026	
---	Flow Control Panel-Z	9309992023	9309992023	
---	Power Cord Assy	9702595050	9702595050	
---	Indicator PCB Assy	9705039025	9705039025	
---	Intake Grill B	9311910039	9311910039	
---	Lamp Cover B	9311868019	9311868019	
---	Face Panel Front C	9311911029	9311911029	
---	Face Panel Front D	9311912019	9311912019	

When you order parts, please make a photocopy of this page and fill the number of the parts in the "Order" column.

OUTDOOR UNIT

Ref. No.	Description	Part No. RO-9UA	Ord. Q'ty	Ref. No.	Description	Part No. RO-9UA	Ord. Q'ty
2	Screw, Taptite (Earth)	0700179013		82	Bracket (Valve)	9306748012	
3	Screw	301171134250		84	Noise Insulation-F	9306937010	
4	Screw	301171164104		85	Screw	9307303012	
8	Washer, Flat	301812440114		86	Running Capacitor	9307588020	
13	Clamp SKB-150	313035356905		92	Label (Outoer Circuit)	9307659010	
14	Special Nut M8	313252257701		93	Fan Motor	9307715020	
16	Clamp No.1219	313361271706		105	Heat Insulation (Cond)	9308457011	
17	Clamp SKB-100	313361275805		106	Condenser	9308460035	
18	Capacitor Clamp	313468061808		107	Emblem-Rear	9308892010	
19	Screw with Washer	313681304205		111	Control Box Cover-A	9308562012	
28	Cord Clamp	9302271002		131	2-Way Valve	9313056018	
30	Drain Pipe Assy	9303029022		133	3-Way Valve	9313057015	
34	Screw, Painted	9304885009		192	Dryer	9312056002	
35	Special Nut with Washer	9304902003		194	Compressor	9312271016	
36	Special Washer	9304903000		195	OCR	9312273003	
41	Clamp SKB-3MC	9305335008		197	Discharge Pipe	9312275007	
45	Bracket (Motor)	9305536030		198	Suction Pipe	9312276004	
46	Propeller Fan	9305538003		199	entrance Pipe	9312277018	
47	Fan Ring	9305581023		204	Capillary	9312282012	
48	Label (Warning)	9305870028		228	Nut	9359430018	
49	Special Wall	9305971008		229	Solenoid	9360538031	
50	Cntrol Box Metal	9305972005		230	Terminal Gasket	9362004008	
51	Reinforcement Plate	9305973002		231	Terminal Cover	9363263008	
61	Base Assy	9306118105		233	4-Way Valve	9900047016	
63	Connector Cover	9306119010		234	Running Capacitor	9900089023	
73	Noise Insulation-G	9306362003		---	BR Sheet 30x120x T7	9305039036	
74	Screw	9306379001		---	BR Sheet 180x180x T2	9305039067	
75	Cabint Rear Panel	9306385019					
76	Front Panel	9306386016					
79	Terminal	9306488017					

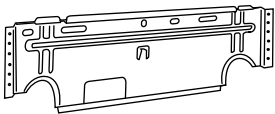
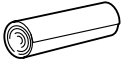
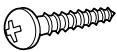
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OUTDOOR UNIT

Ref. No.	Description	Part No. RO-12UC	Ord. Q'ty	Ref. No.	Description	Part No. RO-12UC	Ord. Q'ty
2	Screw, Taptite (Earth)	0700179013		150	Cover (Switch)	9310979013	
3	Screw	301171134250		151	Protection Net	9310980019	
16	Clamp No.1219	313361271706		155	Condenser	9311003014	
17	Clamp SKB-100	313361275805		156	Cover (Terminal)	9311021018	
18	Capacitor Clamp	313468061808		158	Emblem-Rear	9312524013	
19	Screw with Washer	313681304205		159	Discharge Pipe	9311045007	
25	Grip	9302061016		163	Suction Pipe	9311075004	
28	Cord Clamp	9302271002		174	Entrance Pipe	9311105008	
30	Drain Pipe Assy	9303029022		176	Bracket (Terminal)	9311347026	
33	Heat Insulation (Motor)	9304859000		192	Dryer	9312056002	
35	Special Nut with Washer	9304902003		210	Compressor	9312287017	
48	Label (Warning)	9305870028		211	OCR	9312289004	
54	Bracket (Motor)	9306047030		213	Capillary	9312291014	
79	Terminal	9306488017		216	3-Way Valve	9313066017	
87	Running Capacitor	9307588068		226	Rubber Sheat-A	9359425014	
91	Special Nut	9307615016		227	Terminal Washer	9359428015	
92	Label (Outer Circuit)	9307659010		228	Nut	9359430018	
95	Hex Bolt	9307835001		230	Terminal Gasket	9362004008	
96	Screw	9308037008		231	Terminal Cover	9363263008	
124	Panel Rear	9309870048		232	Motor, Induct	9601541011	
125	Fan Ring	9309876019		233	4-Way Valve	9900047016	
126	Propeller Fan	9309909014		235	Running Capacitor	9900089030	
128	Cabinet, Painted	9309928053		236	Solenoid	9970026010	
129	Blow Grill	9309929012		---	BR Sheet 30x120x T7	9305039036	
131	2-Way Valve	9313056018		---	BR Sheet 180x180x T2	9305039067	
137	BCT (Valve)	9310229026					
140	Base, Painted	9310248027					
145	Panel (Top), Painted	9310338063					
146	Separator	9310969014					
148	Box (Switch)	9310971024					

When you order parts, please make a photocopy of this page and fill the number of the parts in the "Order" column.

STANDARD ACCESSORIES

Name and Shape	Part No.
Wall hook bracket 	9310001004
Remote control unit 	9312094059
Battery (penlight) 	0600185534
Cloth tape 	9310519004
Tapping screw (4 x 25) 	0700076046

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