



SPLIT TYPE ROOM AIR CONDITIONER WALL MOUNTED type

SERVICE MANUAL



Models	Indoor unit	Outdoor unit
	RS-14FA	RO-14FAC
	RS-14UA	RO-14UAC

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S P E C I F I C A T I O N S

TYPE		COOL	COOL & HEAT
INDOOR UNIT		RS-14FA	RS-14UA
OUTDOOR UNIT		RO-14FAC	RO-14UAC
COOLING CAPACITY	(kW)	4.10 - 4.15	3.95 - 4.00
HEATING CAPACITY	(kW)	----	4.85 - 4.95

ELECTRICAL DATA

POWER SOURCE	(V)	220 - 240	
FREQUENCY	(Hz)	50	
RUNNING CURRENT	(A)	COOLING	7.2 - 7.3
		HEATING	7.3 - 7.4
INPUT WATTS	(kW)	COOLING	7.4 - 7.6
		HEATING	----
EER	(kW/kW)	COOLING	1.53 - 1.60
		HEATING	1.55 - 1.62
		COOLING	1.56 - 1.65
		HEATING	----
MOISTURE REMOVAL	(R /hr)	2.68 - 2.59	2.55 - 2.47
AIR CIRCULATION-Hi	(m³/hr)	----	3.11 - 3.00
		2.0	2.0
		COOL 510 - 510	COOL 510 - 510 HEAT 560 - 560

COMPRESSOR

TYPE	Hermetic type, Permanent split condenser, 2 pole, Single phase, Induction motor		
CODE	80238235 220-240V 50Hz		
REFRIGERANT	R410A	(g)	1,100

Note : Always use a vacuum pump to purge the air.
Refrigerant for purging the air is not charged in the outdoor unit at the factory.

FAN MOTOR

POWER SOURCE	(V)	220 - 240	220 - 240
INDOOR UNIT	HI-SPEED (r.p.m.)	1,380 - 1,380	COOL 1,380 - 1,380 HEAT 1,480 - 1,480
	MED-SPEED (r.p.m.)	1,290 - 1,290	COOL 1,290 - 1,290 HEAT 1,320 - 1,320
	LO-SPEED (r.p.m.)	1,200 - 1,200	COOL 1,200 - 1,200 HEAT 1,180 - 1,180
	QUIET (r.p.m.)	1,120 - 1,120	COOL 1,120 - 1,120 HEAT 1,030 - 1,030
OUTDOOR UNIT	(r.p.m.)	770 - 800	770 - 800

DIMENSIONS

INDOOR UNIT	H x W x D (mm)	280 x 815 x 179
OUTDOOR UNIT		535 x 695 x 250

WEIGHT

INDOOR UNIT	GROSS / NET (kg)	12 / 10
OUTDOOR UNIT		37 / 34

NOISE LEVEL

INDOOR UNIT	HI-SPEED (r.p.m.)	42 - 42	COOL 42 - 42 HEAT 42 - 42
	MED-SPEED (r.p.m.)	40 - 40	COOL 40 - 40 HEAT 40 - 40
	LO-SPEED (r.p.m.)	39 - 39	COOL 39 - 39 HEAT 34 - 34
	SUPER QUIET(r.p.m.)	37 - 37	COOL 37 - 37 HEAT 32 - 32
OUTDOOR UNIT (r.p.m.)		47 - 48	COOL 47 - 48 HEAT 49 - 49

Note : Noise was measured in accordance with JIS standards, Japan.

ADDITIONAL REFRIGERANT CHARGE

Refrigerant suitable for a piping length of 7.5 m is charged in the outdoor unit at the factory.

When the piping is longer than 7.5 m, additional charging is necessary.

For the additional amount, see the table below.

PIPE LENGTH	7.5 m	10 m	15 m
ADDITIONAL REFRIGERANT	None	50 g	150 g

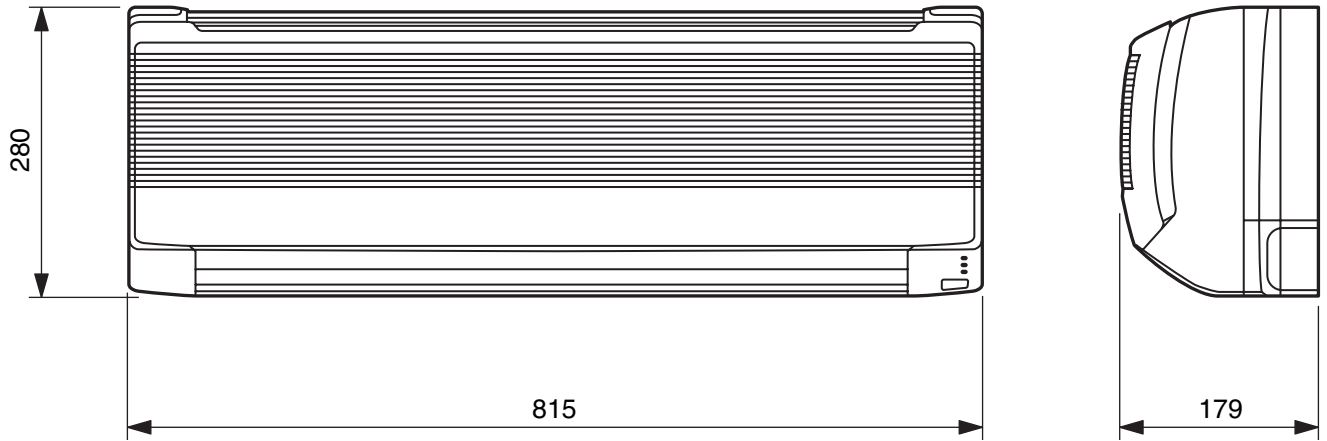
Between 7.5 m and 15 m, when using a connection pipe other than that in the table,
charge additional refrigerant with 20 g /1 m as the criteria.

⎧ The maximum length of the piping is 15 m. If the units are further apart than this,
correct operation can not be guaranteed. ⎫

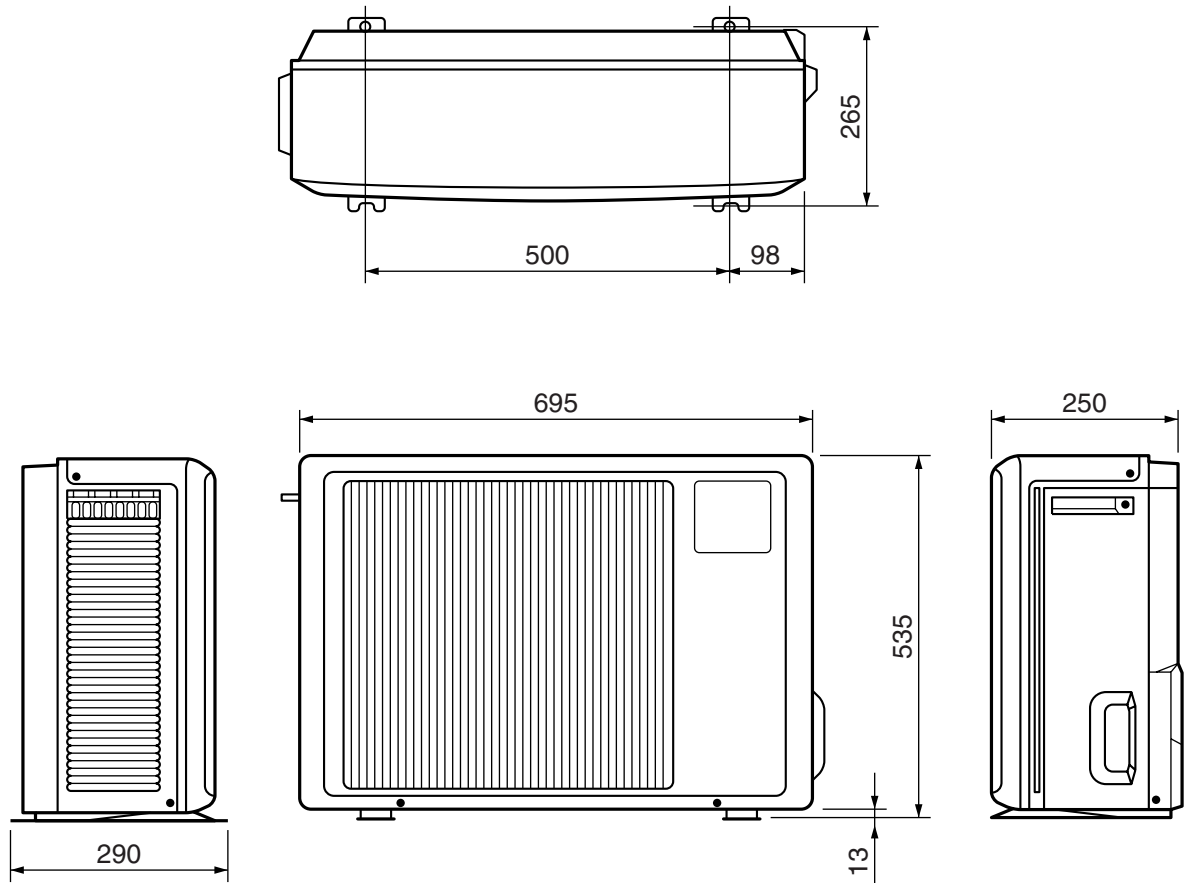
DIMENSIONS

INDOOR UNIT : RS-14FA RS-14UA

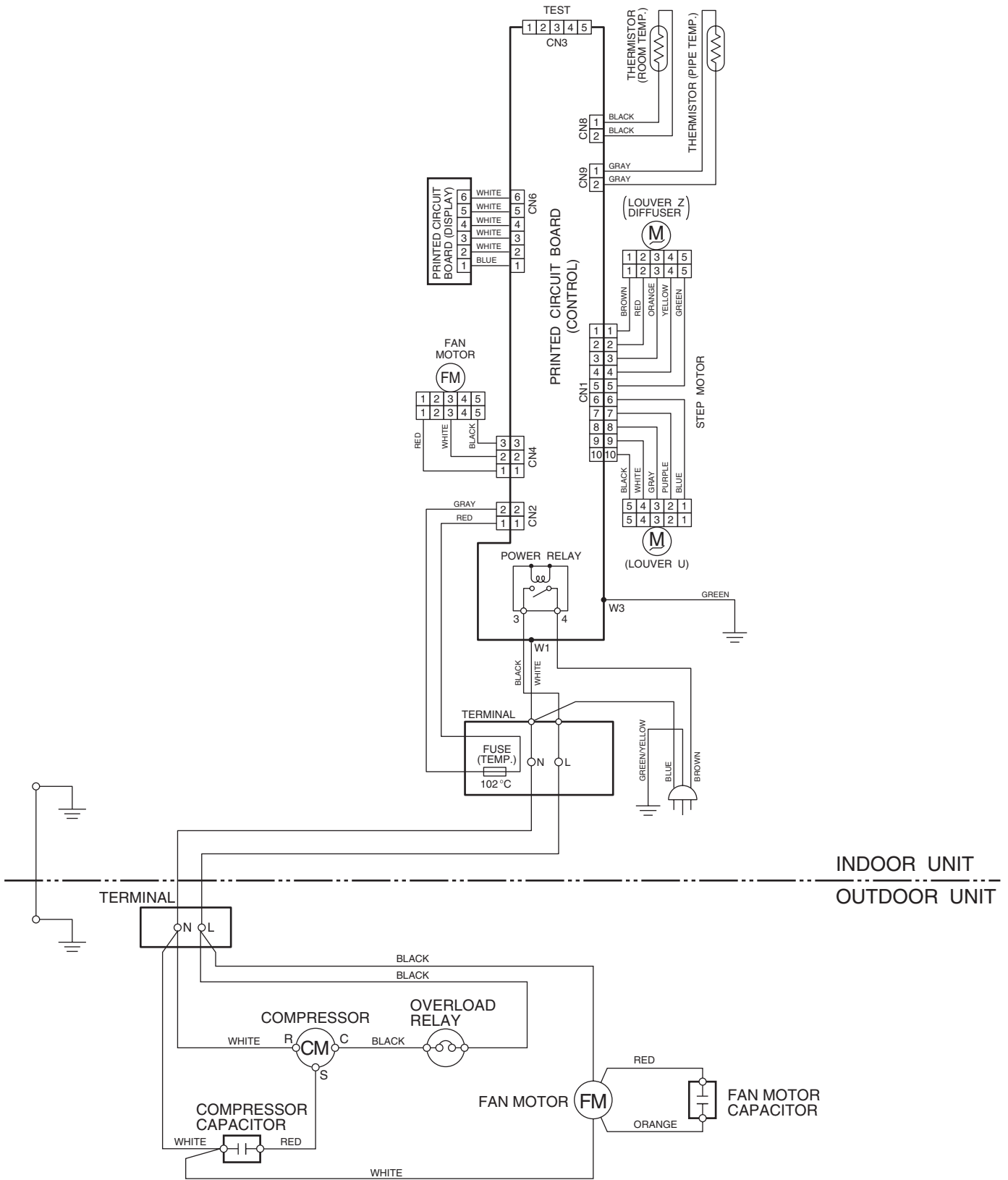
Unit : mm



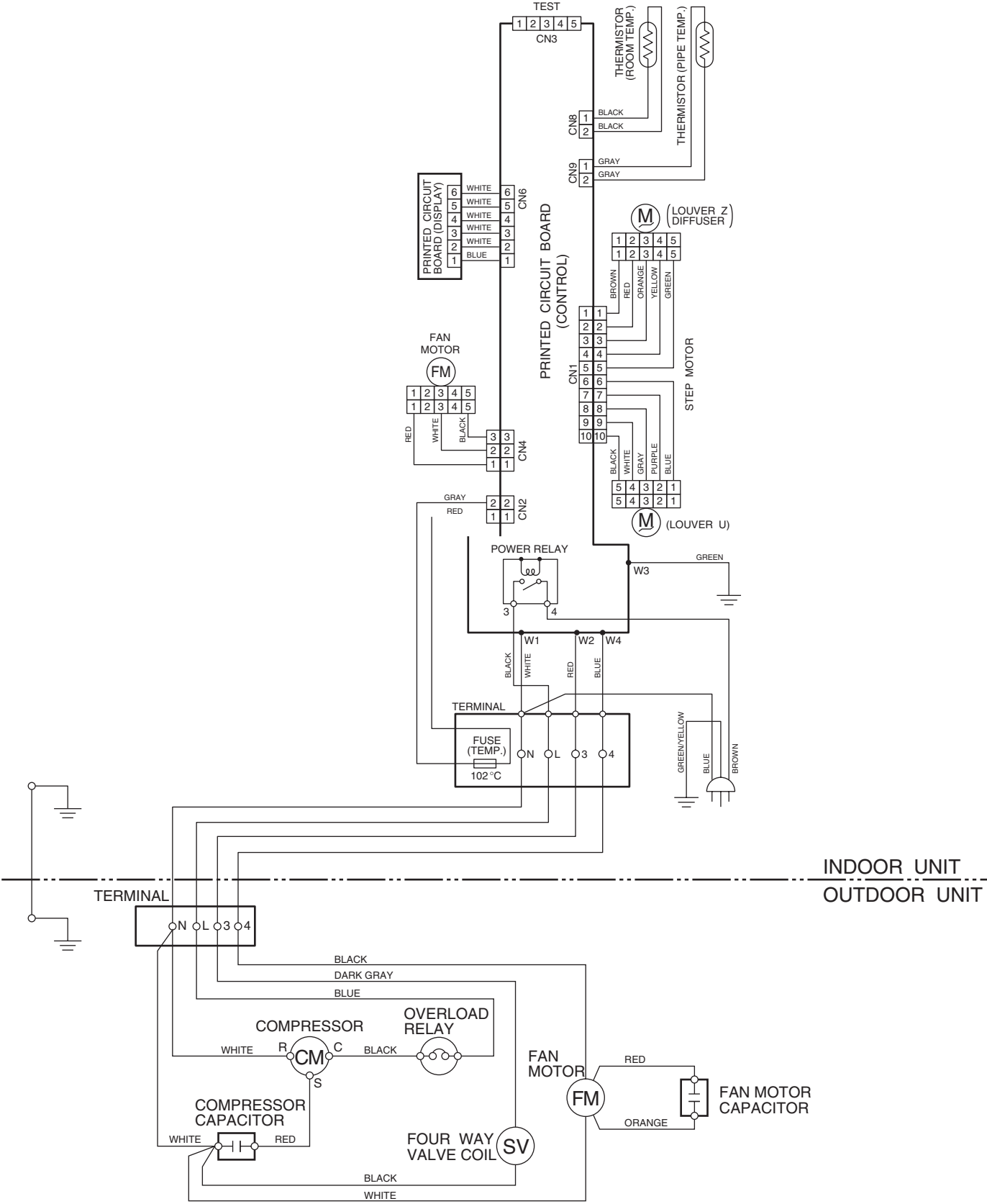
OUTDOOR UNIT : RO-14FAC RO-14UAC



CIRCUIT DIAGRAM

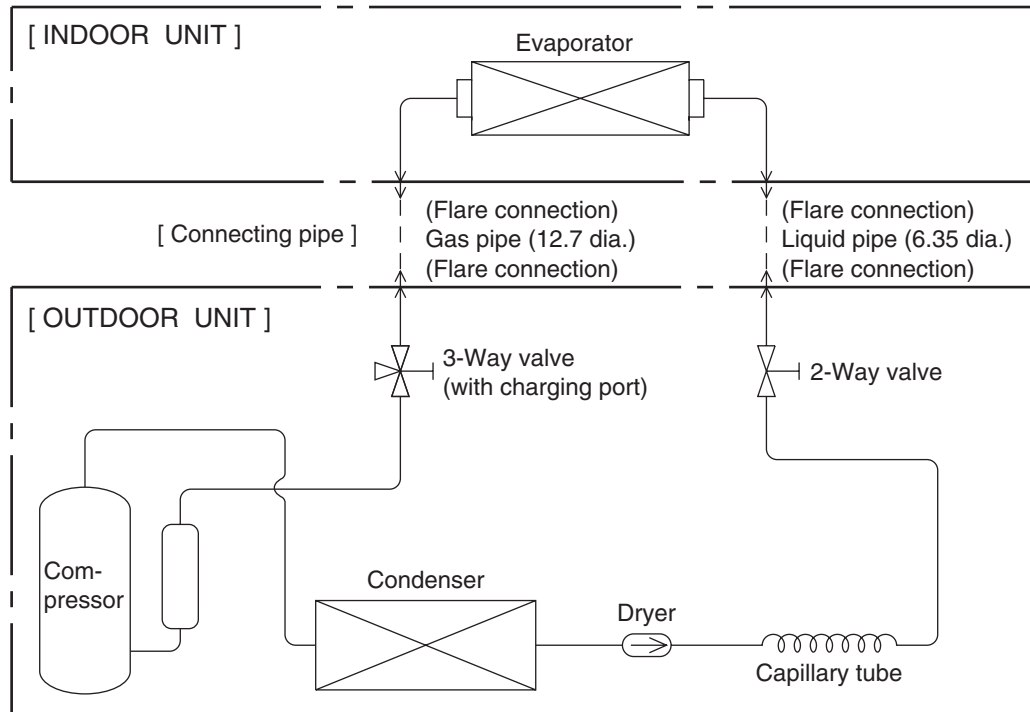
Models : RS-14FA / RO-14FAC

Models : RS-14UA / RO-14UAC

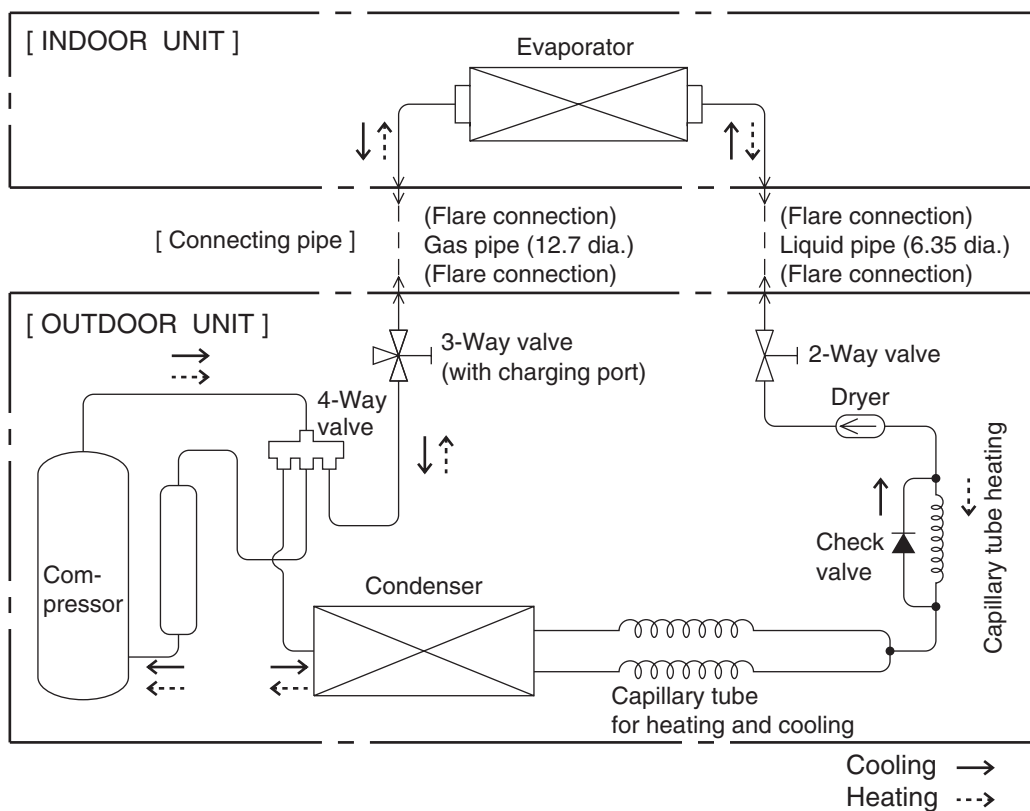


REFRIGERANT SYSTEM DIAGRAM

Models : RS-14FA / RO-14FAC

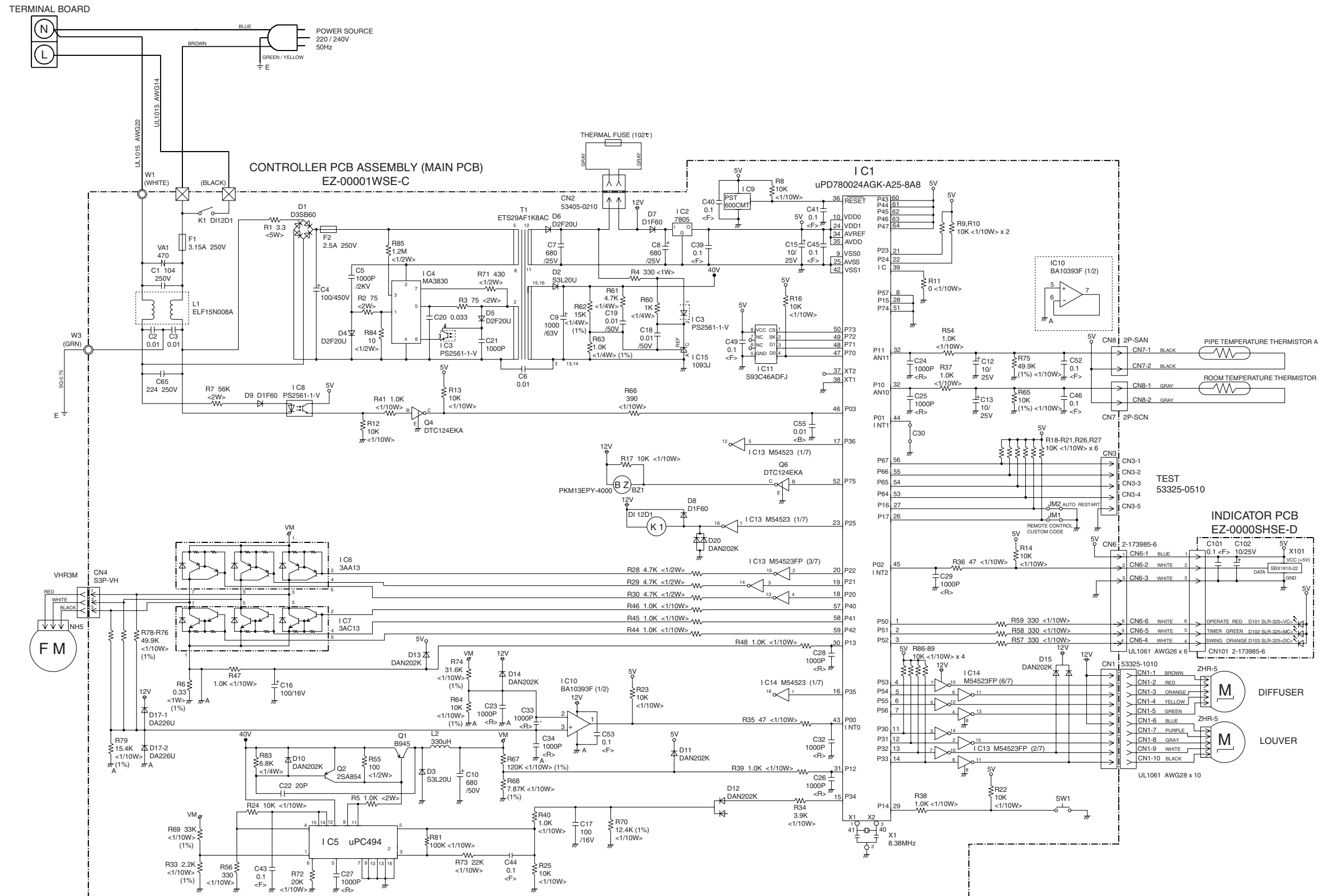


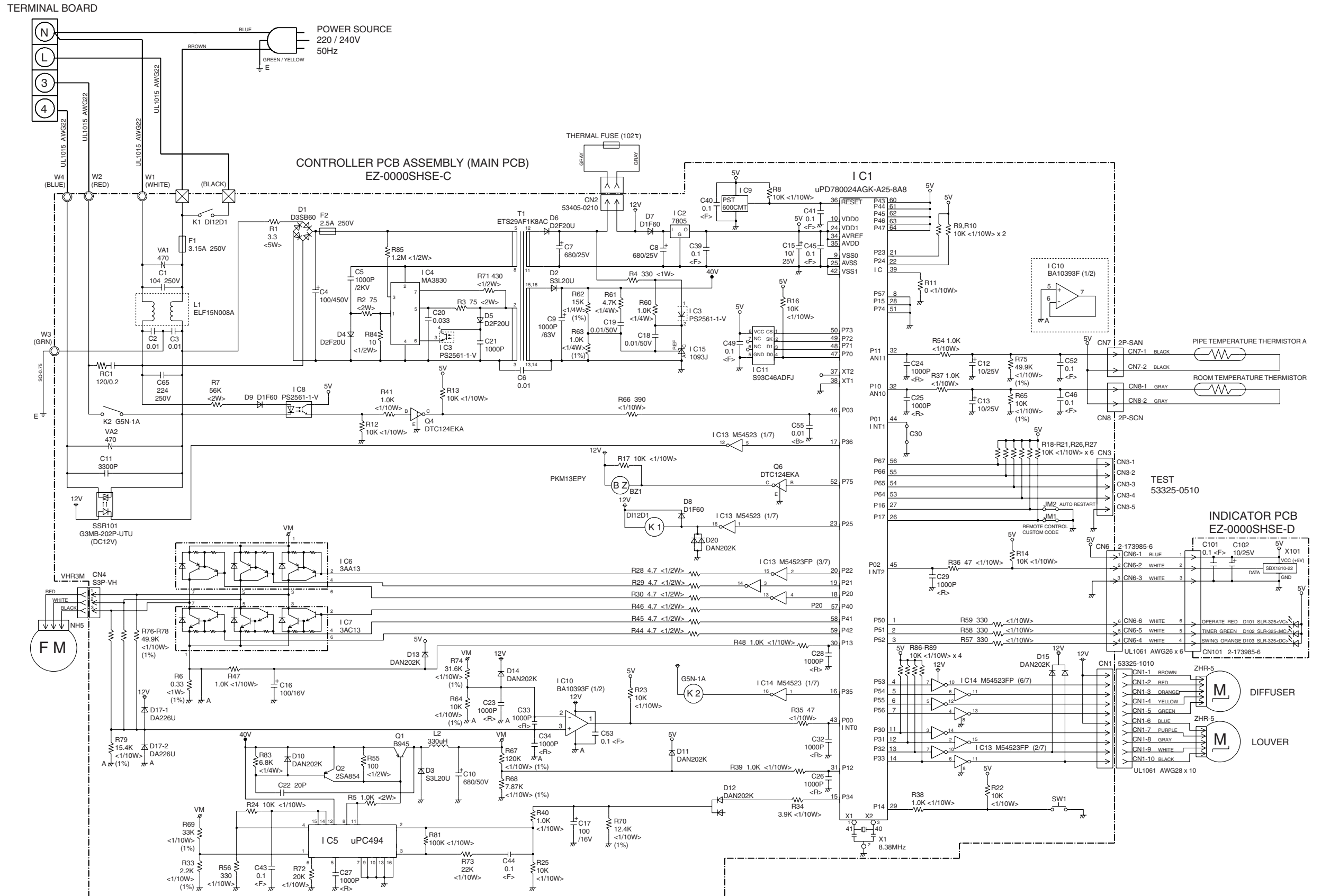
Models : RS-14UA / RO-14UAC



INDOOR PRINTED CIRCUIT BOARD CIRCUIT DIAGRAM

Model : RS-14FA





ERROR DISPLAY

Troubleshooting check table

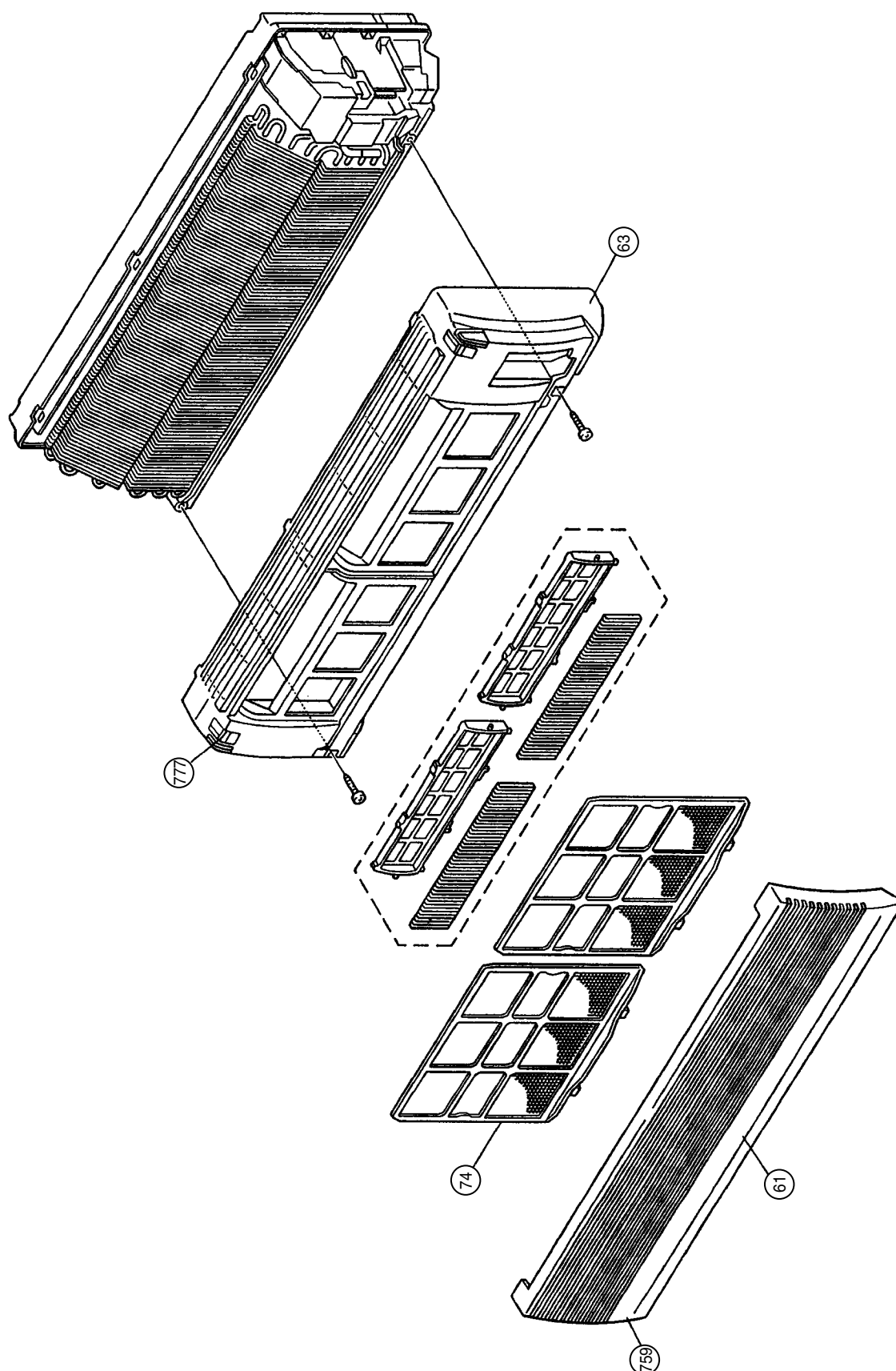
Operation lamp : Red lamp
Timer lamp : Green lamp

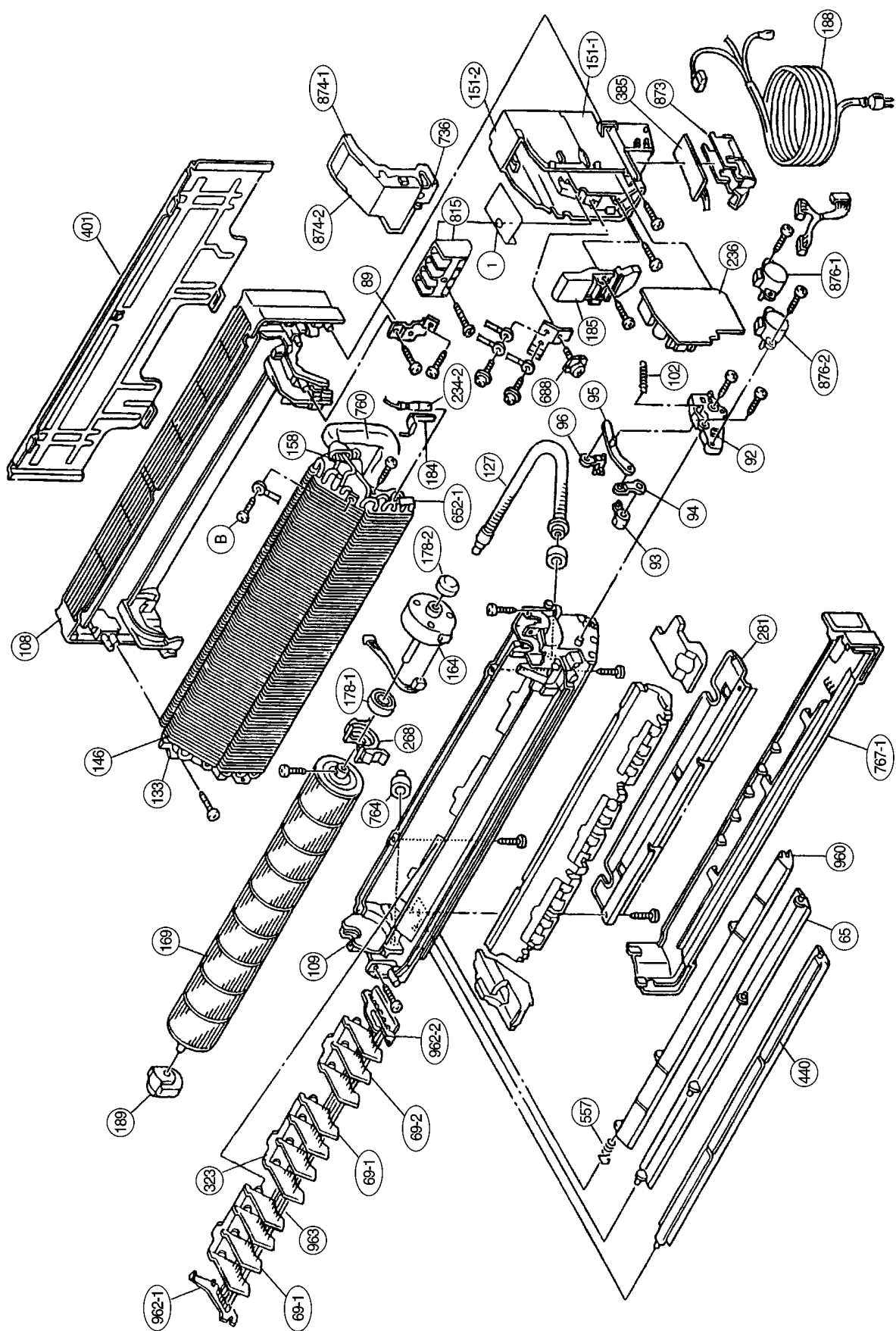
Large division indication			Small division indication		
Error contents	LED indication		Error contents	LED indication	
thermistor error	RED lamp Green lamp	● (2 times) ○	thermistor error (room temp.)	RED lamp Green lamp	○ ● (2 times)
			thermistor error (heat exchanger)	RED lamp Green lamp	○ ● (3 times)
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)
			r.p.m. error	RED lamp Green lamp	○ ● (3 times)

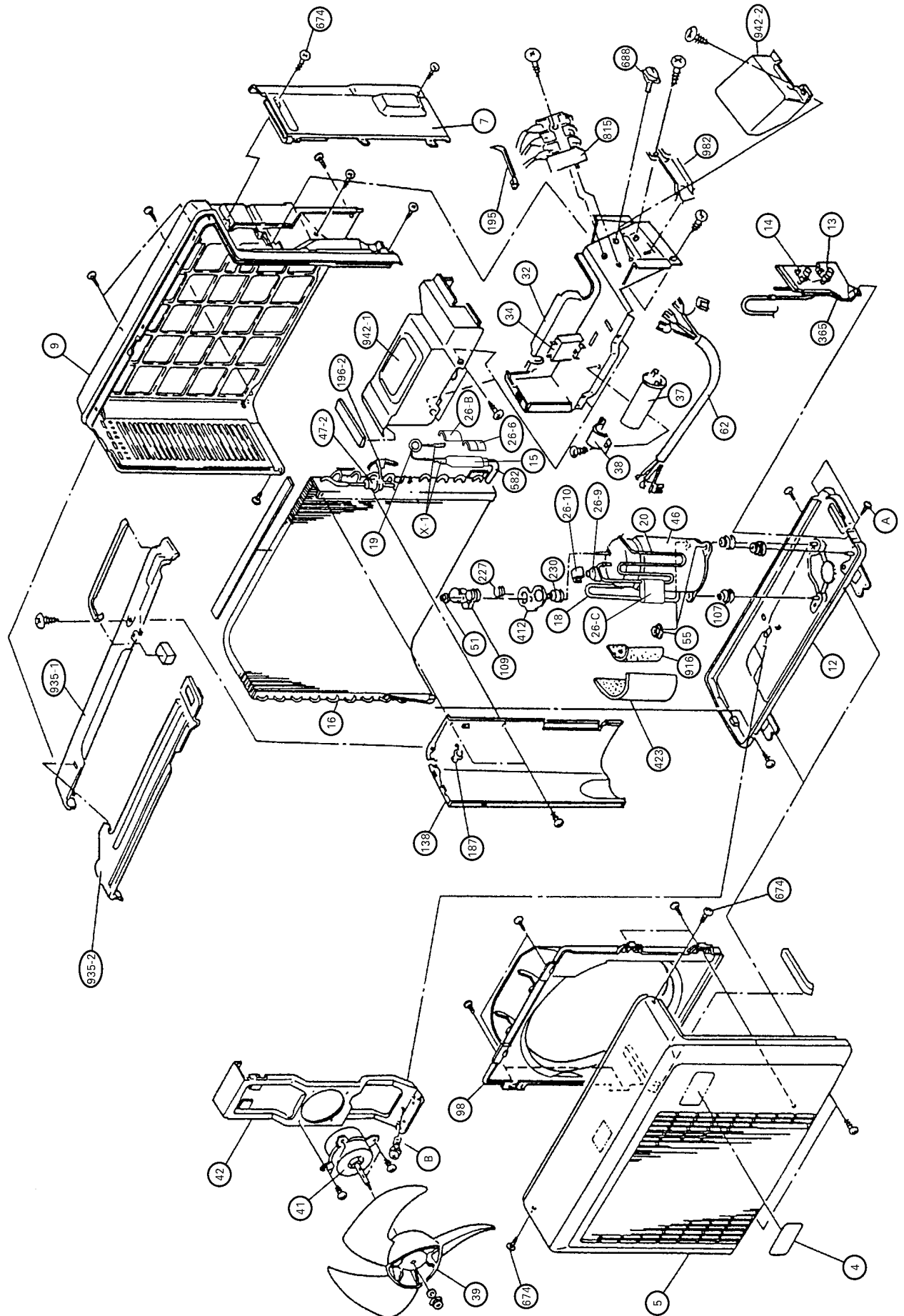
● : 0.5s ON/OFF repeated

○ : 0.1s ON/OFF repeated

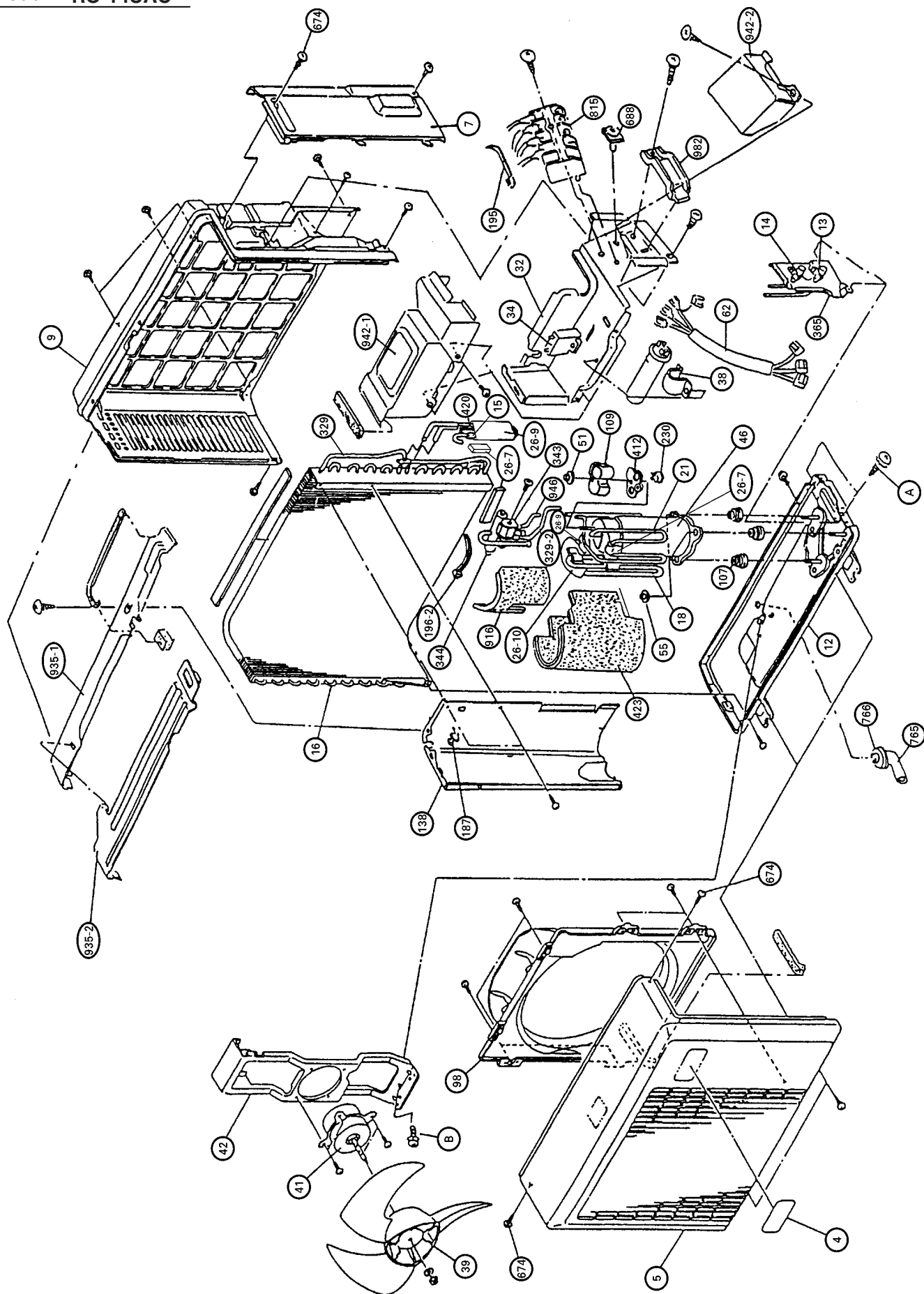
DISASSEMBLY ILLUSTRATION







Model : RO-14UAC



PARTS LIST

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

INDOOR UNIT

Ref. No.	Description	Part No.		Ord. Q'ty	Ref. No.	Description	Part No.		Ord. Q'ty
		RS-14FA	RS-14UA				RS-14FA	RS-14UA	
26	BR Sheet 25 x 80 x 75	9305039203	9305039203		236	Controller PCB Assy EZ-00001WSE-F	9703917028	9703917028	
63	Front Panel Assy	9306817268	9306817268		240	Remote Control Unit	9307113062	9307113086	
65	Flow Control Panel-Z	9306571016	9306571016		268	Motor Cover-B	9306582012	9306582012	
69-1	Louver-A	9306583019	9306583019		281	Clamp Metal (Pipe)	9306607012	9306607012	
69-2	Louver-C	9309884014	9309884014		385	Indicator PCB Assy	9703922015	9703922015	
74	Filter	9306601010	9306601010		401	Wall Hook Bracket	9306588014	9306588014	
89	Casing Fixture Metal	9307018008	9307018008		440	Flow Control Panel-U	9306570019	9306570019	
92	Link Plate	9306577018	9306577018		557	Diffuser Spring	9306611019	9306611019	
93	Link-A	9306573010	9306573010		652-1	Therm. Holder Pipe	313714262805	313714262805	
94	Link-B	9306574017	9306574017						
95	Link-C	9306575014	9306575014		759	Intake Grille	9308815033	9308815033	
96	Link-D	9606576011	9606576011		764	Drain Cap Assy	9304150008	9304150008	
102	Link Spring	9606610012	9606610012		767-1	Bottom Cover-A	9306567019	9306567019	
108	Base	9606566012	9606566012		777	Intake Grille Clamp	9306755010	9306755010	
109	Casing	9306569013	9306569013		796	Control Box-D	9309049017	9309049017	
127	Drain Hose Assy	9305550029	9305550029		815	Terminal	9701955022	9701955039	
146	Evaporator Assy	9308200037	9308200037		873	Lamp Cover	9306593025	9306593025	
158	Connecting Pipe Assy	9309433014	9309433014		876-1	Step Motor	9305780006	9305780006	
164	Fan Motor Assy-In	9306829025	9306829025		876-2	Step Motor	9305892006	9305892006	
169	Cross-flow Fan Assy	9307836015	9307836015		960	Diffuser	9306572013	9306572013	
178-1	Motor Cushion-A (Fan Motor)	9306751012	9306751012		962-1	Guard Holder-L	9307229015	9307229015	
178-2	Motor Cushion-A (Fan Motor)	9306580018	9306580018		962-2	Guard Holder-R	9307228018	9307228018	
184-1	Thermistor Spring-A	313728262708	313728262708		963	Fan Guard Metal Rod	9305751020	9305751020	
189	Shaft Holder-C	9306628017	9306628017		B	Screw (w/Spring Washer)	0700179013	0700179013	

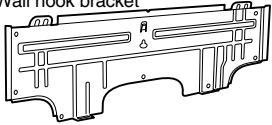
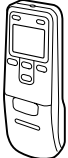
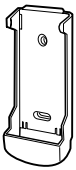
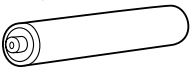
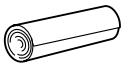
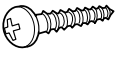
OUTDOOR UNIT

Ref. No.	Description	Part No.		Ord. Q'ty	Ref. No.	Description	Part No.		Ord. Q'ty
		RO-14FAC	RO-14UAC				RO-14FAC	RO-14UAC	
4	Emblem-Rear	9308892010	9308892010		138	Separate Wall	9305971008	9305971008	
5	Cabinet Front Panel, Plastic	9305525010	9305525010		187	Clamp No.1219	313361271706	313361271706	
7	Connector Cover (Cabinet)	9306119010	9306119010		195	Clamp SKB-100	313361275805	313361275805	
9	Cabinet Rear Panel, Plastic	9305526017	9305526017		196	Clamp SKB-150	-----	313035356905	
12	Base Assy, Painted	9306118068	9306118068		196-2	Clamp SKB-3MC	9305335008	9305335008	
13	3-Way Vave	9310100011	9310100011		230	Overlaod Relay	930844300	9308443001	
14	2-Way Valve	9310084014	9310084014		343	Solenoid Coil	-----	9307252013	
16	Condenser Assy	9300000004	9309904002		344	4-Way Valve	-----	9307609015	
18	Suction Pipe	9308679000	9308453013		365	Bracket (Valve)	9306748036	9306748036	
19	Capillary Tube	9308668004	-----		412	Terminal Gasket (Comp.)	9351121006	9351121006	
20	Discharge Pipe Assy	9308681003	9307035012		420	Capillary Assy (with Check Valve)	-----	9310134009	
26-6	BR Sheet 100x120x T5	9305039029	-----		423	Noise Insulation-F	9310143001	9310143001	
26-7	BR Sheet 30x120x T7	9305039036	9305039036		582	Discharge Pipe	9308666000	-----	
26-9	BR Sheet 180x180x T2	9305039067	9305039067		620	Inlet Pipe Assy	-----	9308455017	
26-10	BR Sheet 100x160x T5	9305039074	9305039074		674	Tapping Screw (Special)	9305848010	9305848010	
32	Control Box Metal	9308561015	9308561015		688	Screw (with Square Washer)	313681304205	313681304205	
34	Capacitor (Fan Motor)	9700468097	9700468097		765	Drain Pipe	-----	9301102000	
37	Capacitor (Running)	9306512019	9306512019		766	Drain Pipe Packing	-----	9301143003	
38	Clamp Metal (Capacitor)	313468061808	313468061808		815	Terminal-3P	9306489014	-----	
39	Propeller Fan	9305538003	9305538003		815	Terminal-5P	-----	9310144008	
41	Fan Motor Assy-Out	9307715020	9307715020		916	Noise Insulation-G	9306362003	9306362003	
42	Bracket (Motor)	9305536030	9305536030		935-1	Reinforcement (Cabinet Top)	9305973002	9305973002	
46	Compressor Assy	9310110010	9310110010		935-2	Reinforcement-F (Cabinet Top)	9306123000	9306123000	
47-2	Discharge Pipe Rubber (Pipe Absorber)	313185159802	-----		942-1	Control Box Cover-A Metal	9308562012	9308562012	
51	Special Nut M5	313199233602	313199233602		942-2	Control Box Cover-B Metal	9305975006	9305975006	
55	Special Nut M6	313252257701	313252257701		981	Cord Clamp (Plastic, Black)	9302271002	9302271002	
62	Wire Assy (Shield)-A	9395695027	9305971026		A	Screw (with Inner Washer)	9357297002	9357297002	
98	Fan Ring	9305581023	9305581023		B	Screw (with Spring Washer)	0700179013	0700179013	
107	Rubber Seat-A	9351813017	9351813017		984	U Pipe (Y) D7	-----	9308442000	
109	Terminal Cover (Comp.)	9351120009	9351120009		X-1	Connection Pipe (Capillary)	9308667007	-----	
					X-2	Dryer	9310195017	9310183014	

Note : Always use specified screws, since Ref. No.668, A, B and C are screws for the earth.

Ref. No.688 : Machine screw (with spring washer) M4 x P0.7 x L10, plating thickness 5μ or more
A : Tapping screw (with inner clip washer) M4 x L10, plating thickness 5μ or more
B : Machine screw (with spring washer) M4 x P0.7 x L10, plating thickness 5μ or more
C : Machine screw (with spring washer) M4 x P0.7 x L8, plating thickness 5μ or more

STANDARD ACCESSORIES

Name and Shape	Part No.	
	RS-14FA	RS-14UA
Wall hook bracket 	9306588014	9306588014
Remote control unit 	9307113062	9307113086
Remote control holder case 	9305642014	9305642014
Battery (penlight) 	313187358304	313187358304
Cloth tape 	9304232001	9304232001
Seal-A 	9304536000	9304536000
Tapping screw (big) (φ 4 x 25) 	0700076046	0700076046
Tapping screw (small) (φ 3 x 12) 	301141533125	301141533125



MANUFACTURER :

Fuji Denki Sosetsu Co., Ltd.

Tokyo, Japan