



**SPLIT TYPE AIR
CONDITIONER (50Hz)**

DUCT type

SERVICE MANUAL



Models	Indoor unit	Outdoor unit
	RD-60EA	RO-60EA

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

INDOOR UNIT	RD-60EA
OUTDOOR UNIT	RO-60EA
COOLING CAPACITY (kW)	16.4 - 17.0

ELECTRICAL DATA

POWER SOURCE (V)	380 - 415
FREQUENCY (Hz)	50
RUNNING CURRENT (A)	10.3 - 10.1
INPUT WATTS (kW)	6.1 - 6.2
EER (kW/kW)	2.69 - 2.74
MOISTURE REMOVAL (ℓ/hr)	6.5
AIR CIRCULATION - Hi (m³/hr)	3,000

COMPRESSOR

TYPE	Hermetic type, 2 pole, 3 - phase, Induction motor
CODE	ZR72KCE-TFD
REFRIGERANT (R407C) (g)	4,200

FAN MOTOR

	INDOOR UNIT	OUTDOOR UNIT
MODEL	RD-60EA	RO-60EA
TYPE	MFA-60ETM	MFB - 362FT
POWER SOURCE (V)	380 - 415	
FAN SPEED	HI-SPEED (r.p.m.)	820
	MED-SPEED (r.p.m.)	
	LO-SPEED (r.p.m.)	

DIMENSIONS

HEIGHT x WIDTH x DEPTH (mm)	400 x 1,250 x 800	1,355 x 940 x 370
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WEIGHTS

GROSS / NET (kg)	90 / 75	131 / 116
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ADDITIONAL REFRIGERANT CHARGE

PIPE LENGTH	20 m	30 m	40 m	50 m
FULL CHARGE AMOUNT	4,200 g	4,500 g	4,800 g	5,100 g

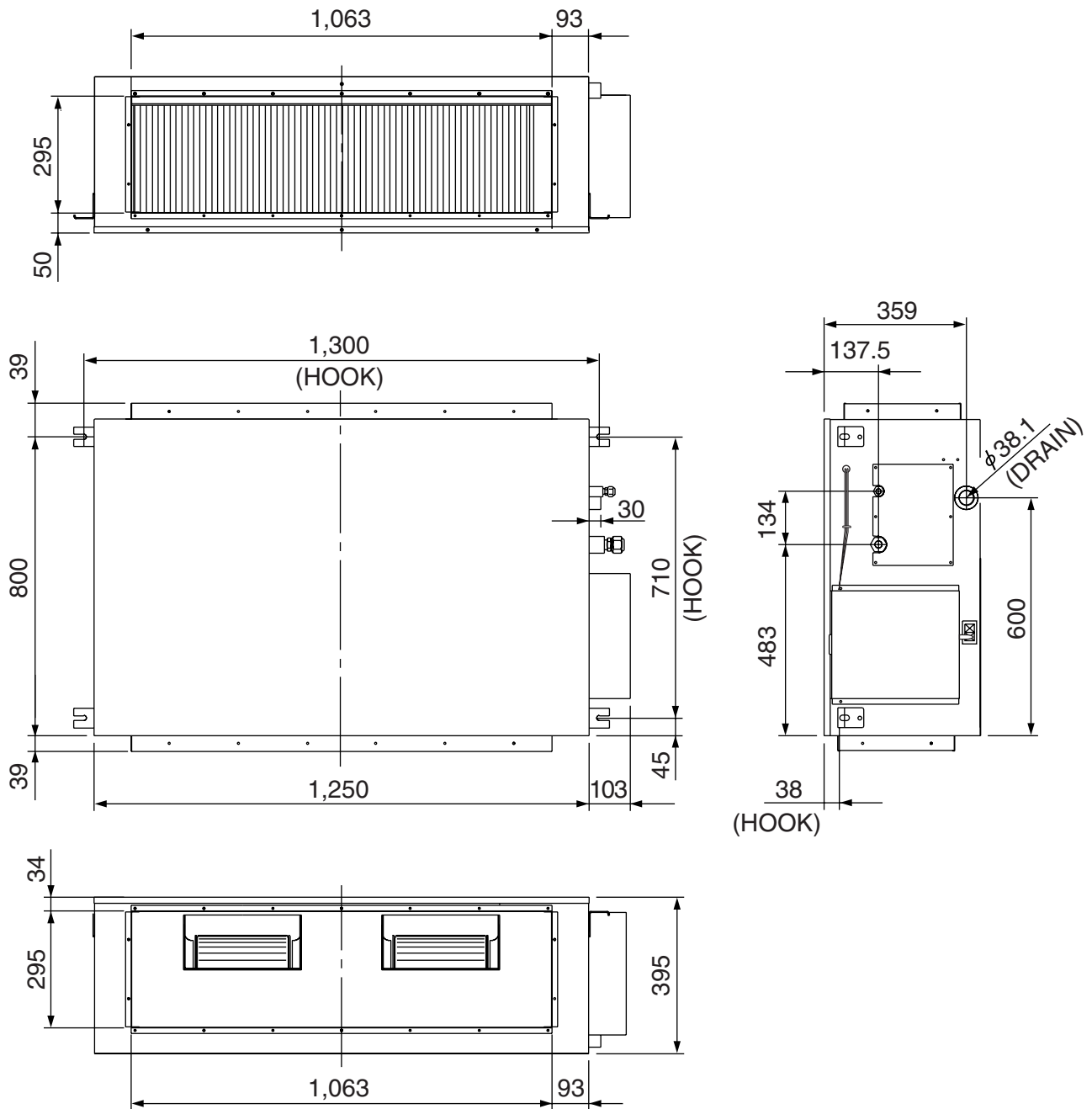
Note : Between 20m and 50m, when using a connection pipe other than that in the table, charge additional refrigerant with 30 g / 1 m as the criteria.

- The above list shows values at an external static pressure of 20mm Aq (196 pa).

OUTLINE AND DIMENSIONS

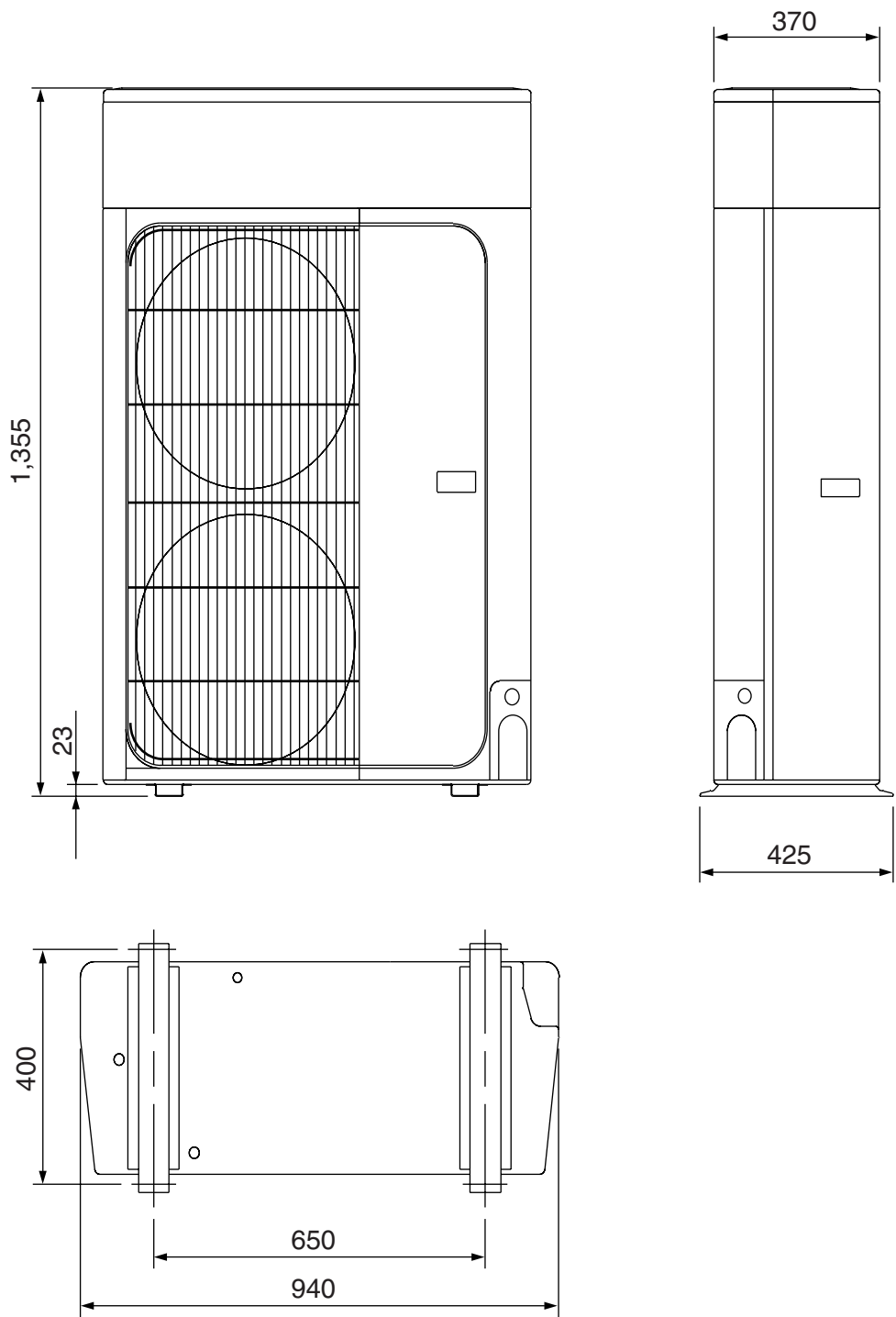
Model : RD-60EA

(Unit : mm)



Model : RO-60EA

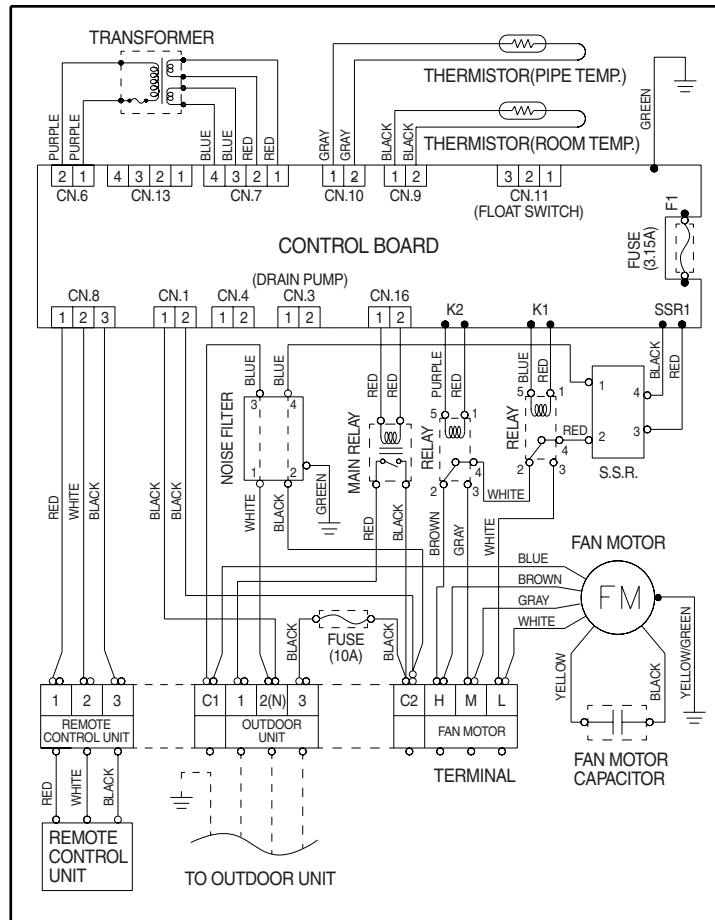
(Unit : mm)



CIRCUIT DIAGRAM

Models : RD-60EA / RO-60EA

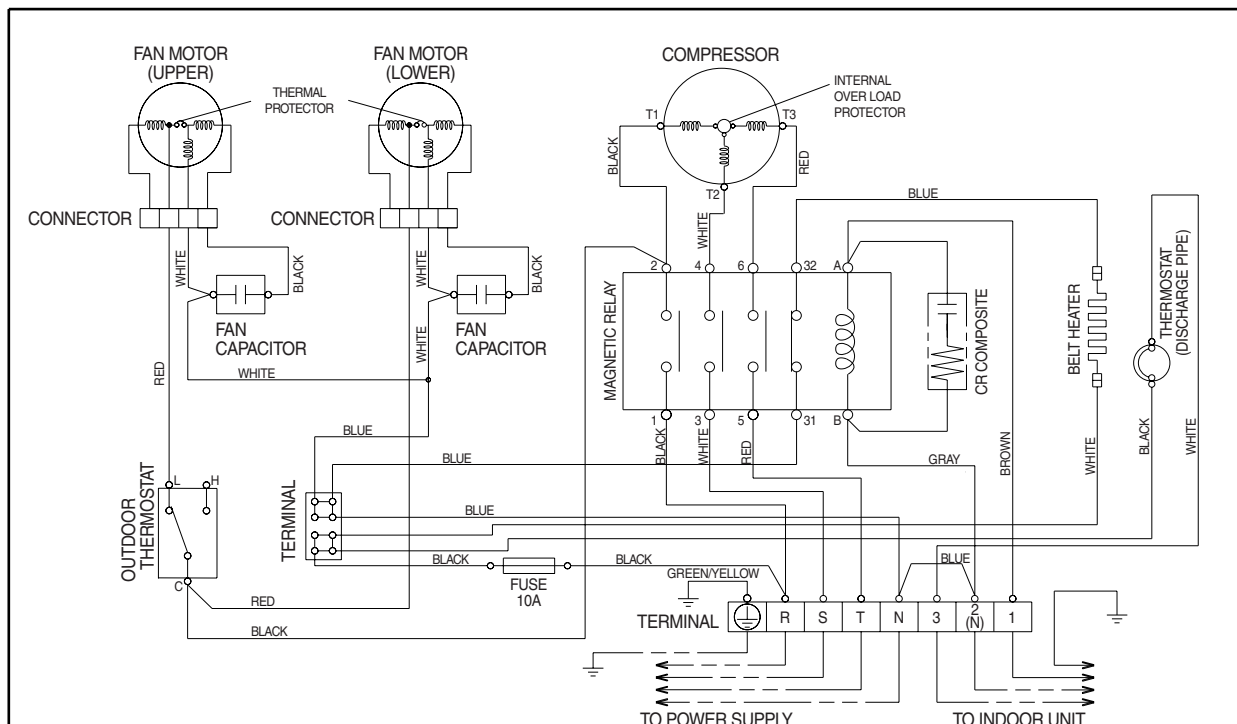
INDOO UNIT



FAN MOTOR CAPACITOR

15 μ F

OUTDOO UNIT

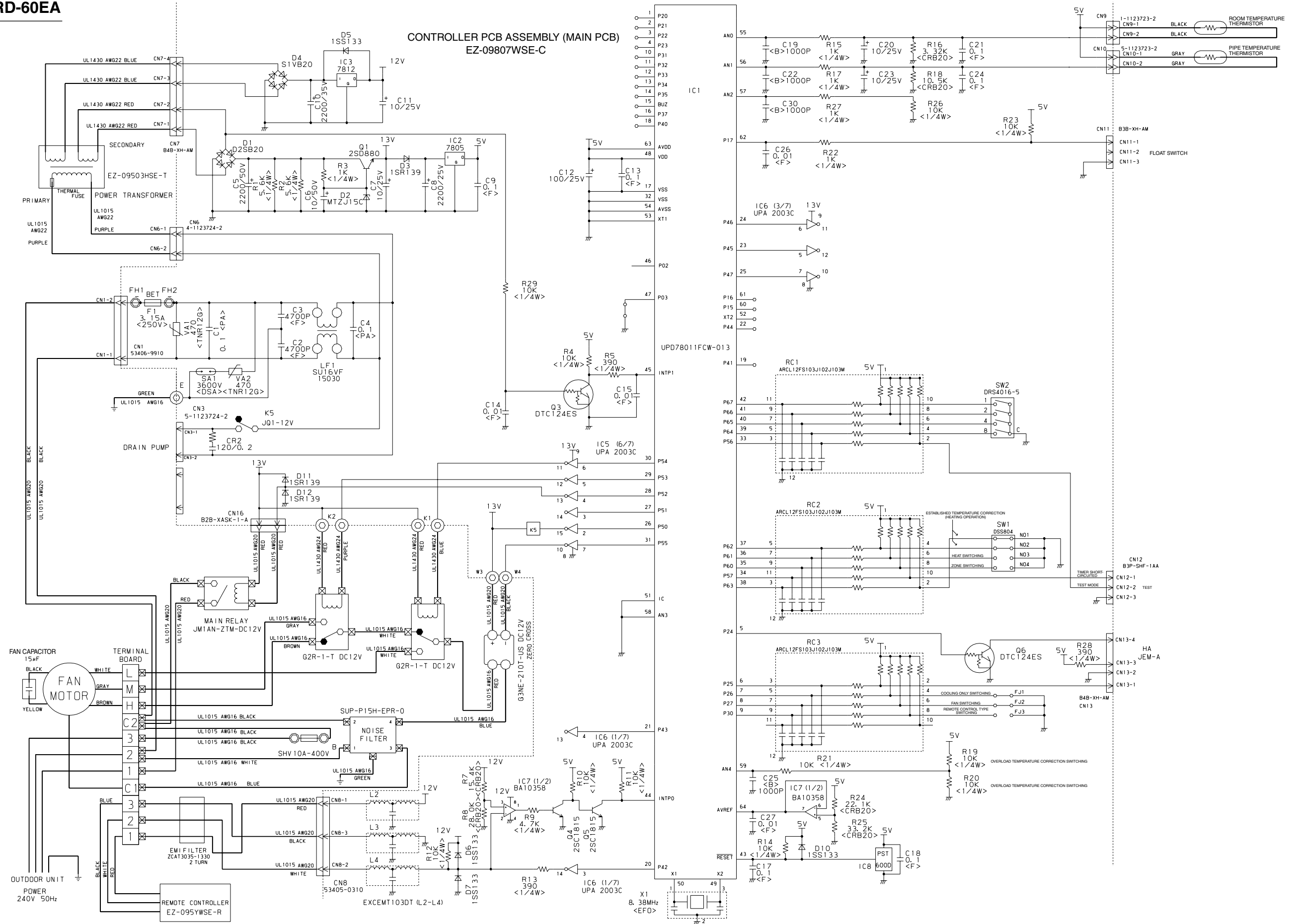


FAN MOTOR CAPACITOR

4 μ F

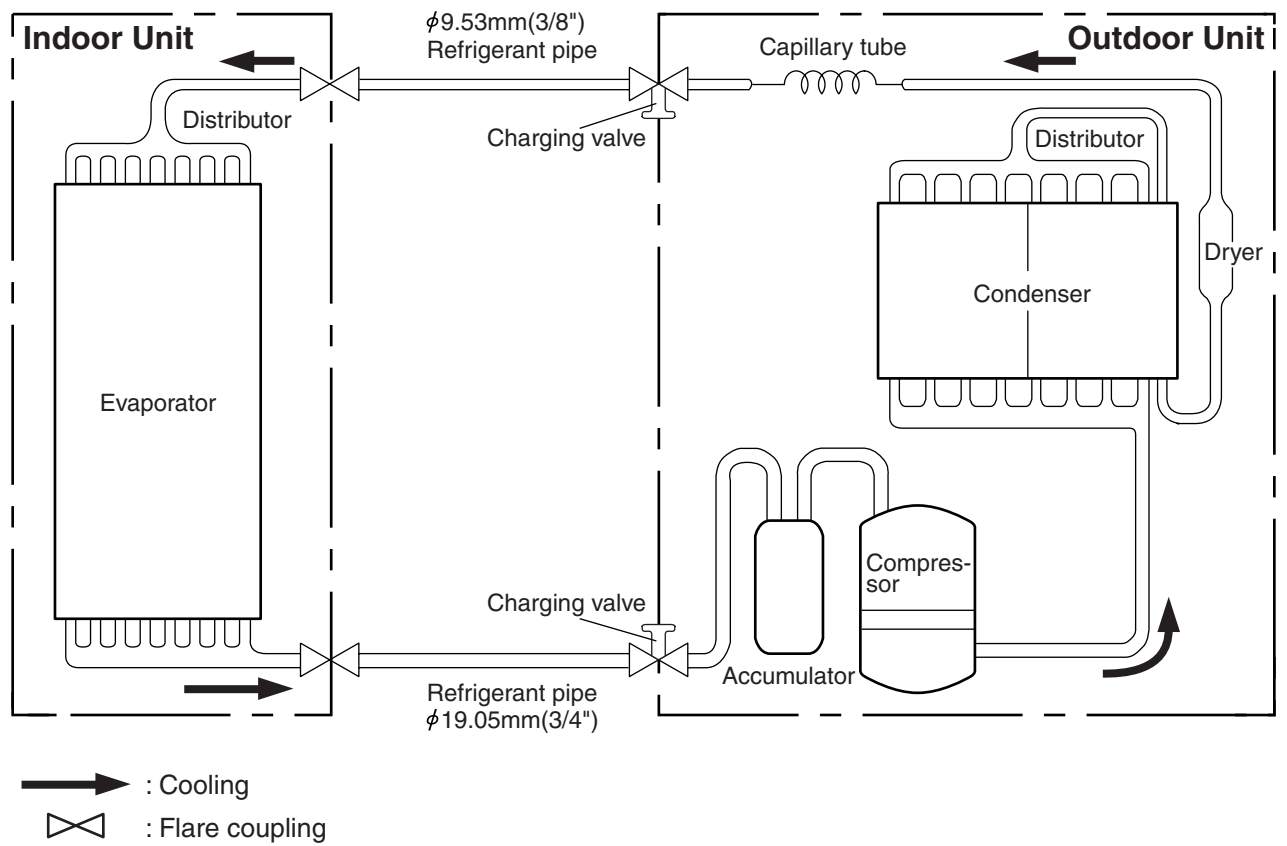
INDOOR PRINTED CIRCUIT BOARD CIRCUIT DIAGRAM

Model : RD-60EA



REFRIGERANT SYSTEM DIAGRAM

Models : RD-60EA / RO-60EA



ERROR CONTENTS

Models : RD-60EA / RO-60EA

1. REMOTE CONTROLLER

- When EE : EE blinks at the current time display, there is an error inside the air conditioner. If the ZONE CONTROL button and ENERGY SAVE button are pressed simultaneously for more than three seconds, the self diagnosis check will start and the error contents will be displayed at the current time display. When the operation lamp lights, press the START/STOP button and after operation lamp goes off, perform the same operation. Process the error contents by referring to (Table 1).

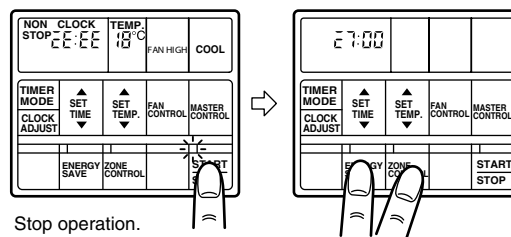


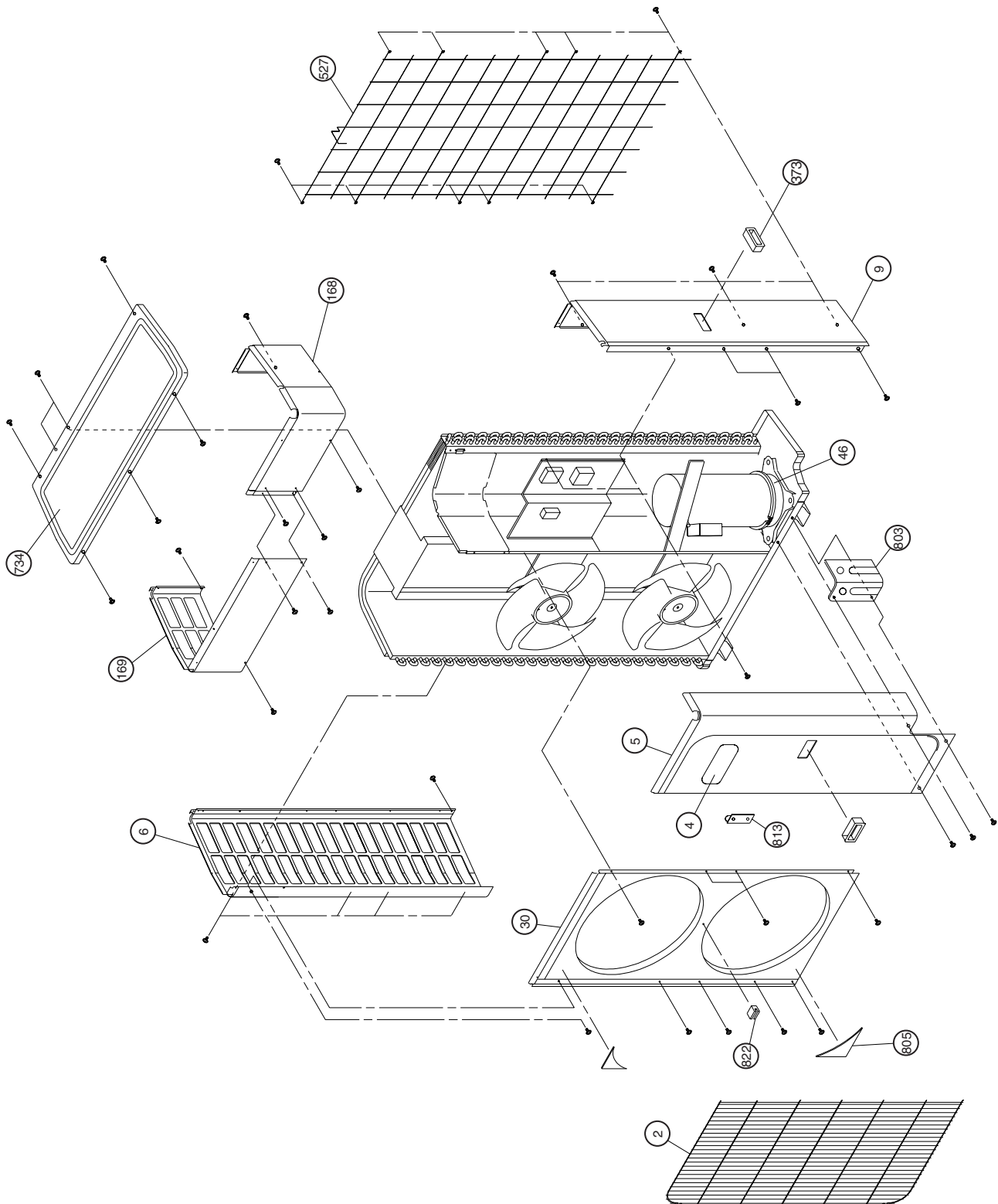
Table 1

Error cord	Error contents
E0:00	Communication error (indoor unit ↔ remote controller)
E1:00	Communication error (indoor unit ↔ outdoor unit)
E2:00	Room temperature sensor open
E3:00	Room temperature sensor shortcircuited
E4:00	Indoor heat exchanger temperature sensor open
E5:00	Indoor heat exchanger temperature sensor shortcircuited
E6:00	Outdoor heat exchanger temperature sensor open
E7:00	Outdoor heat exchanger temperature sensor shortcircuited
E8:00	Outdoor temperature sensor open
E9:00	Outdoor temperature sensor shortcircuited
EC:00	Discharge pipe temperature sensor open
Ed:00	Discharge pipe temperature sensor shortcircuited
EF:00	Discharge pipe temperature abnormal

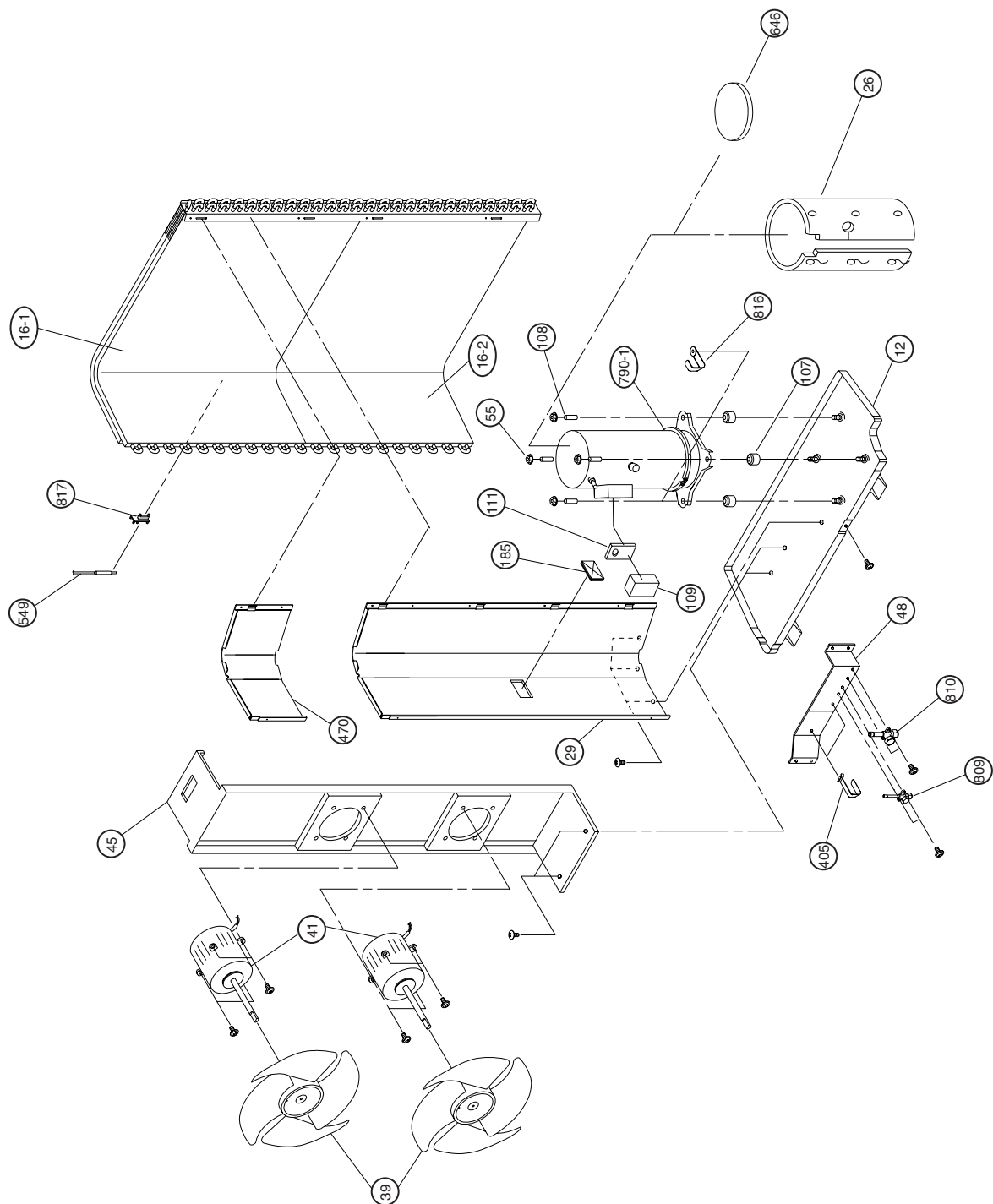
- To stop test running, press the START/STOP button.
- For the operation method, refer to the operating manual and perform operation check.
- Check that there are no abnormal sounds or vibration sounds during test running.

DISASSEMBLY ILLUSTRATION

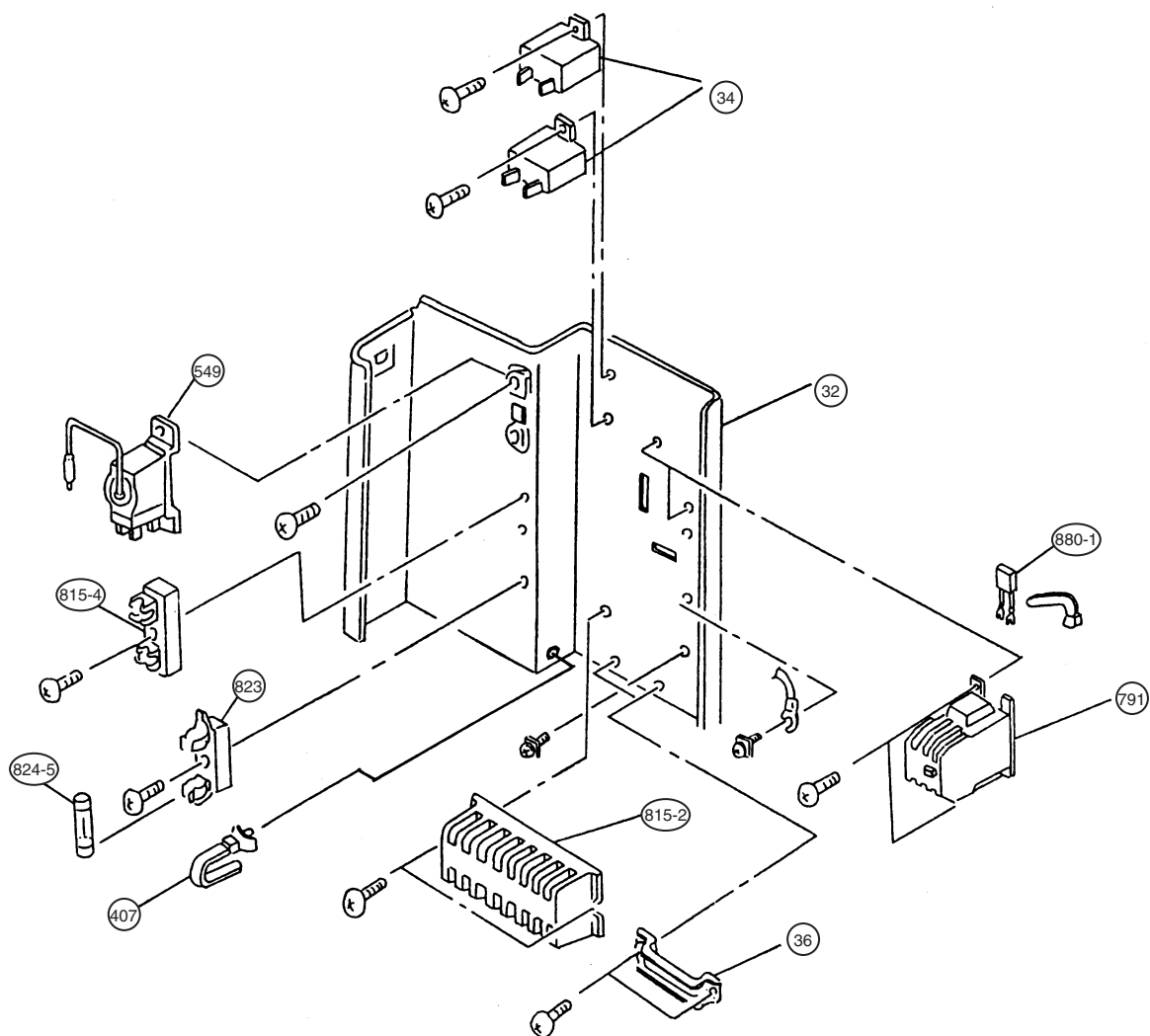
Model : RO-60EA



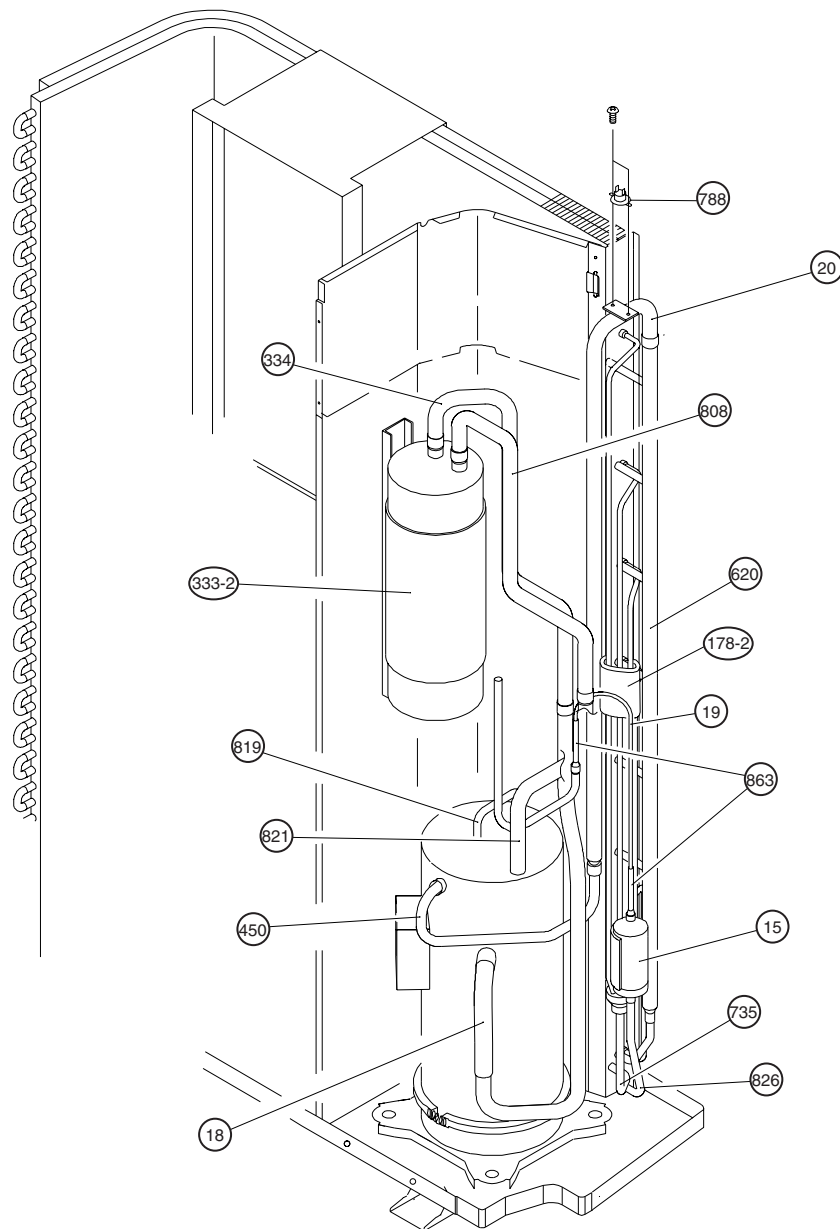
Model : RO-60EA



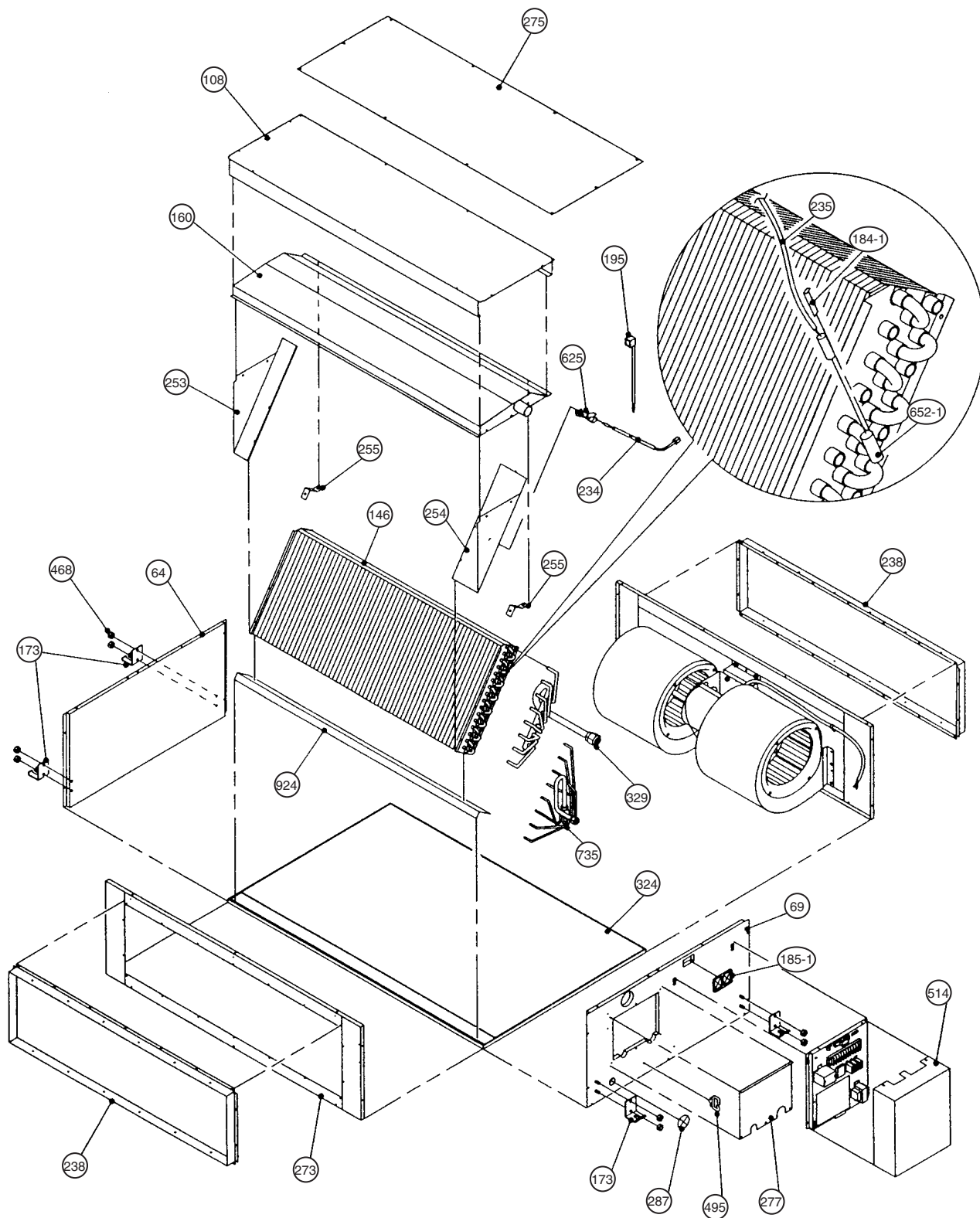
Model : RO-60EA



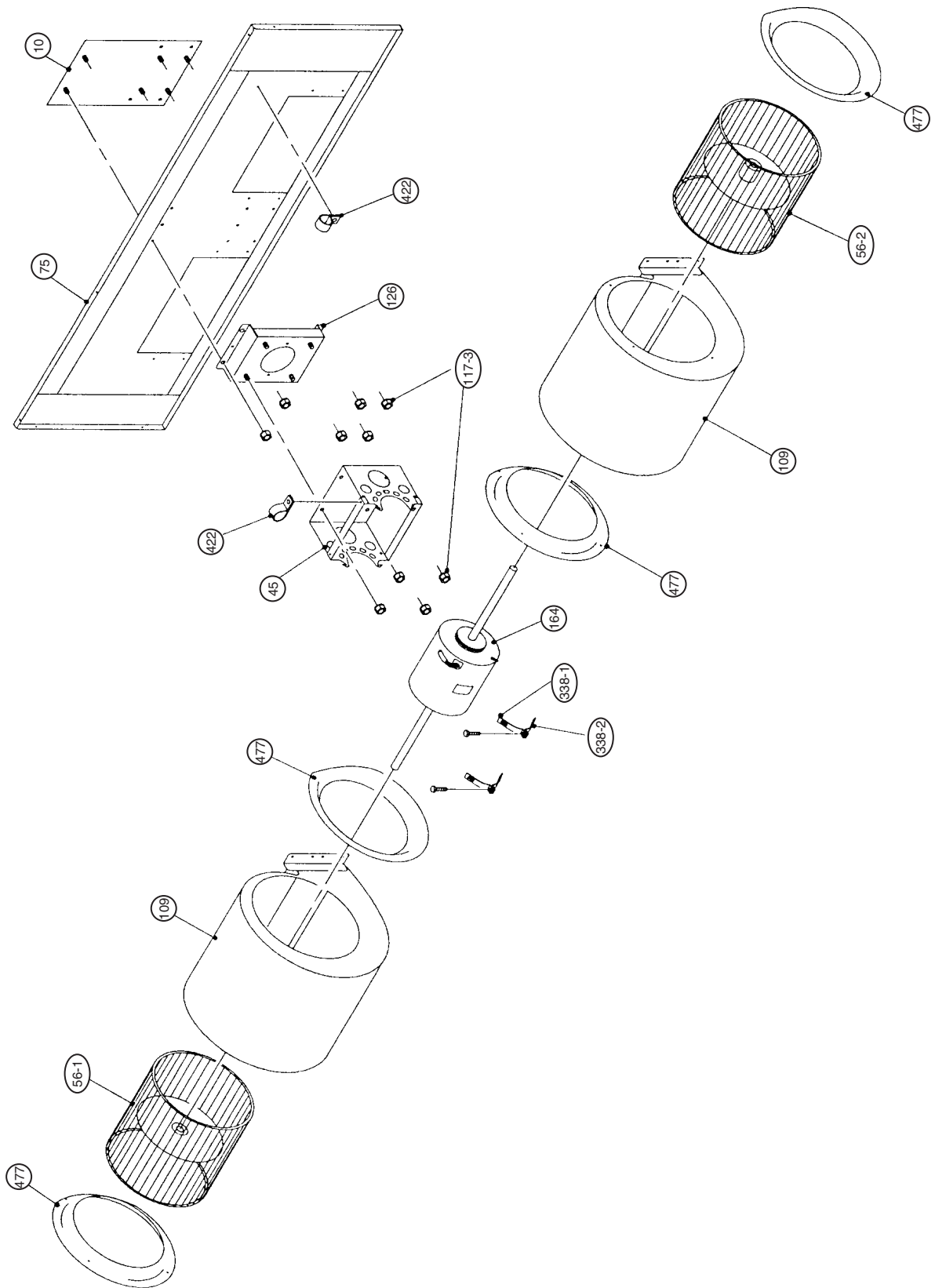
Model : RO-60EA



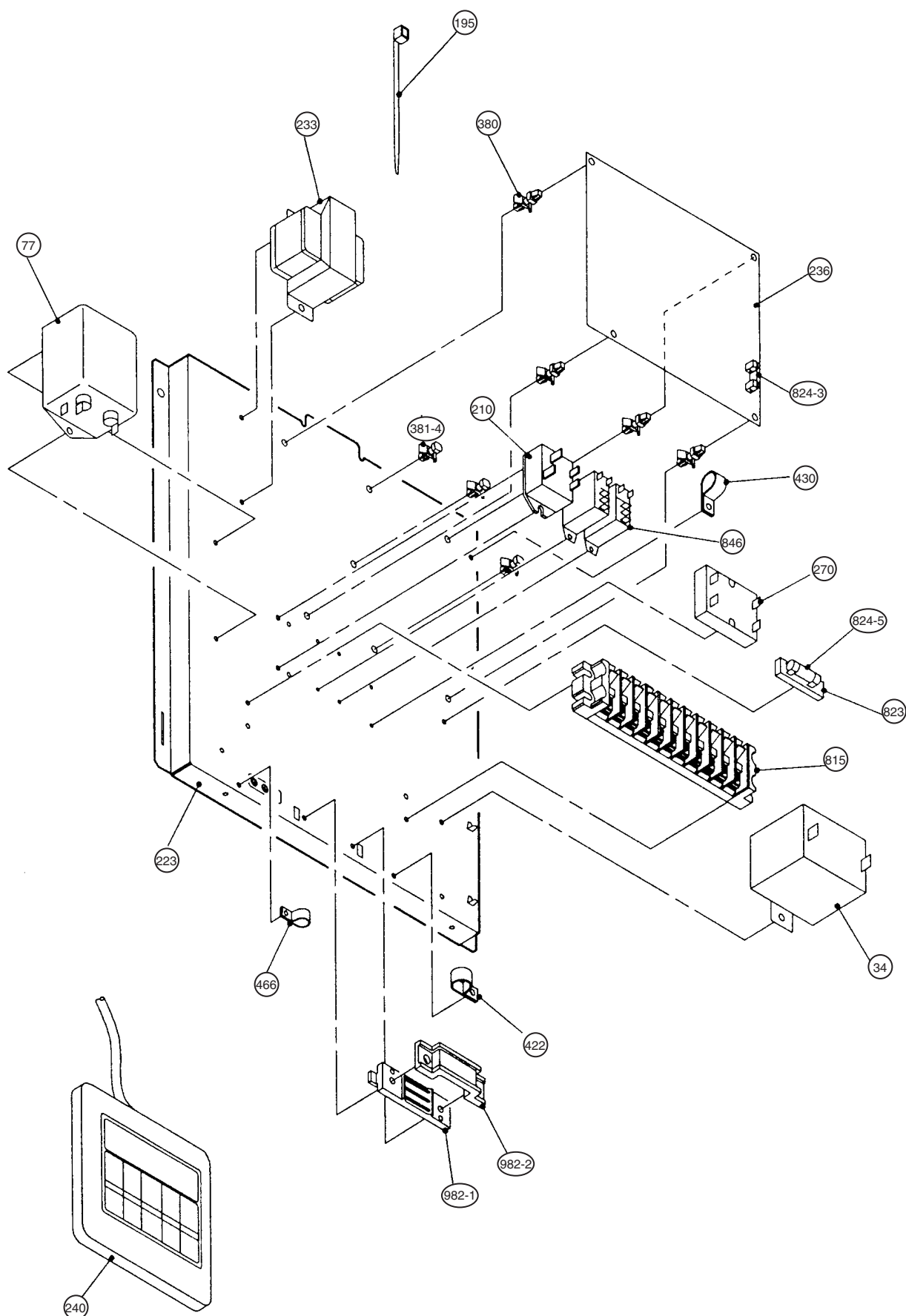
Model : RD-60EA



Model : RD-60EA



Model : RD-60EA



PARTS LIST

INDOOR UNIT (RD-60EA)

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

Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
10	Reinforcement (Front Panel)	9361424005		255	HE Support-Sub	9361346000	
34	Capacitor (Fan Motor)	9700468042		270	Relay, Solid	9702099015	
45	Motor Mount Assy	9361369009		273	Rear Panel Assy	9361350007	
56-1	Sirocco Fan-R	9361635005		275	Under Panel	9361362000	
56-2	Sirocco Fan-L	9361636002		277	Maintenance Panel	9361364004	
64	Left Panel Assy	9361358003		287	Cap (Power)	9352173011	
69	Right Panel Assy	9361356009		324	Top Plate	9361349001	
75	Front Panel	9361353008		329	Coupling Pipe Assy	9366102007	
77	EMI Filter	9702126018		338-1	Motor Fixture	9359702009	
108	Base	9361340008		338-2	Motor Fixture-B	9359703006	
109	Casing Assy	9361373006		380	Locking Spacer KGLS-6S	313209391403	
117-3	Hex. Nut w/Spring Washer	301721180114		381-4	Locking Spacer KGPS-6S	0600118075	
126	Motor Base Assy	9361354005		422	Clamp NK-9N	313209399700	
146	Evaporator Assy	9366103004		430	Clamp NK-7N	313095365602	
160	Drain Pan Assy	9361341029		466	Clamp NK-4N	313714328805	
164	Fan Motor Assy	9361439009		468	Nut-A M8	9356998009	
173	Hook Metal	9361367005		477	Bellmouth	9361378001	
184-1	Thermostat Spring-A	313728262708		495	Clamp No. 2U46	9352715006	
185-1	Rubber Bushing	9357376004		514	Control Box Cover	9361366008	
195	Clamp SKB-100	313361275805		625	Cord Bushing	9359240006	
210	Main Relay	9356781007		652-1	Therm. Holder Pipe	313806262805	
223	Control Box Metal	9361365001		735	Distributor Assy	9366101000	
233	Power Transformer	9701678013		815	Terminal 11P	9358660157	
234	Thermistor (Room)	9900118020		823	Fuse Holder	0500487011	
235	Thermistor (Pipe)	9900119027		824-3	Fuse	0600285210	
236	Controller PCB Assy	9702091026		824-5	Fuse	0600315023	
238	Rectangular Flange	9361351004		846	Relay	9702100018	
240	Remote Control Unit	9701673032		924	Seal Plate	9361347007	
253	HE Support-Right	9361344006		982-1	Cord Clamp-A	9359820017	
254	HE Support-Left	9361345003		982-2	Cord Clamp-B	9359821014	

OUTDOOR UNIT (RO-60EA)

Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
2	Fan Cover	9352159015		334	Suction Pipe-B	9362557009	
4	Emblem-Rear "FUJI"	9361328006		373	Grip	9352157004	
5	Cabinet-A, Painted	9352146015		405	Clamp No. 1763	313816345304	
6	Cabinet-C, Painted	9352149016		407	Clamp (Cable) No. 1259	313739340109	
9	Cabinet-B, Painted	9352147012		450	Discharge Pipe-A	9366281009	
12	Base Assy, Painted	9352136016		470	Separate Wall-B Assy	9361310001	
15	Dryer	9369978036		527	Protection Net	9361730007	
16-1	Condenser-A Assy	9366230007		549	Thermostat-Outdoor	9352426001	
16-2	Condenser-B Assy	9366228004		620	Inlet Pipe (Condenser) Assy	9366227007	
18	Suction Pipe Assy	9364514000		646	Compressor Cover-B	9364089003	
19	Capillary Tube	9366235002		734	Cabinet Top Plate	9352161018	
20	Discharge Pipe Assy	9366232001		735	Distributor Assy	9366226000	
26	Compressor Cover-A	9364088006		788	Thermostat-Overheat	9354061002	
29	Separate Wall Assy	9355277013		790-1	Belt Heater-A	9361140042	
30	Blower Cover, Painted	9352151019		791	Magnetic Relay	9900078010	
32	Control Box Metal	9352134012		803	Cabinet-D, Painted	9352150012	
34	Capacitor (Fan Motor)	9704305015		805	Blower Cover Corner	9352160011	
36	Cord Holder Metal	9356934007		808	Inlet Pipe (Accumulator)	9362558006	
39	Propeller Fan Assy	9300855013		809	Ball Valve-A	9362578004	
41	Fan Motor Assy	9600832028		810	Ball Valve-B	9362579001	
45	Bracket (Motor) Assy	9362856003		813	Cabinet Hook	9352148002	
46	Compressor Assy	9367377008		815-2	Terminal 8P	9363276022	
48	Bracket (Coupler) Assy	9355281010		815-4	Terminal 2P	9701971015	
55	Special Nut M8	9355091008		816	Wire Clamp Metal	313584219902	
107	Rubber Seat-A (For Comp.)	9364084008		817	Thermostat Fixture	9352164019	
108	Sleeve-A (For Comp.)	9364085005		819	Joint Pipe (Valve-A)	9364052007	
109	Terminal Cover (For Comp.)	9364087009		821	Joint Pipe (Valve-B)	9362564007	
111	Terminal Packing (For Comp.)	9364086002		822	Fan Cover Fixture-A	9352158018	
168	Cabinet-E, Painted	9361312029		823	Fuse Holder	0500487011	
169	Cabinet-F, Painted	9361311022		824-5	Fuse	0600315023	
178-2	Capillary Holder Rubber	313394274808		826	Condensing Pipe-B	9366229001	
185	Rubber Bushing	313005066051		863	Joint Pipe (Capillary)-B	9362563000	
333-2	Accumulator(B)	9368463007		880-1	Network	9700987017	

INDOOR UNIT ACCESSORIES

Name and Shape	Q'ty	Application	Part No.
Installation template 	1	For positioning the indoor unit	9361644007
Special nut A (large flange) 	4	For suspending the indoor unit from ceiling	313005446653
Special nut B (small flange) 	4		313005446759
Coupler heat insulation (large) 	2	For indoor side pipe joint (large pipe)	9350716029
Coupler heat insulation (small) 	1	For indoor side pipe joint (small pipe)	9352766015
Nylon fastener 	1	For fixing the drain hose	312300787605
Remote control unit 	1		9701673032
Remote control unit cord clamp 	10	For installing the remote control unit cord	313714181904
Tapping screw (flush heads) 	10	For installing the remote control unit cord clamp	301141153027
Auxiliary pipe assembly 	1	For wiring conduit(gas side) connection	9357038001
Drain hose insulation 	1	Insulates the drain pipe and vinyl hose connection	9361646001
Drain pipe insulation 	1	For insulating the drain pipe	9361796003

OUTDOOR UNIT ACCESSORIES

Name and Shape	Q'ty	Application	Part No.
Power cap 	1	For power supply cord installation	9352173011
Auxiliary pipe assembly 	1	For wiring conduit (gas side) connection (May not be supplied, depending on the model)	9355292016
Edge cover 	1	For wiring conduit installation hole edge protection	9352436000
Tapping screw 	2	• For cabinet A and cabinet D mounting (1) • Spare (1)	301463040100
Binder 	1	For power supply cord binding	313035356905
Putty 	1	For sealing	303020200114
Coupler heat insulation 	1	For outdoor side pipe joint	313005074759



MANUFACTURER :

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