

SPLIT TYPE AIR CONDITIONER (50Hz) DUCT type

SERVICE MANUAL

Models

Indoor unit	Outdoor unit
ART14RLB	AOT14RGA
ART14RLB	AOT14RGB

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SPECIFICATIONS

ELECTRICAL DATA

INDOOR UNIT		ART14RLB
OUTDOOR UNIT		AOT14RGA, AOT14RGB
COOLING CAPACITY		3.9 kW - 4.0 kW
HEATING CAPACITY		4.7 kW - 4.8 kW
POWER SOURCE		220 V - 240 V
FREQUENCY		50 Hz
RUNNING CURRENT	COOLING	7.1 A - 7.2 A
	HEATING	6.9 A - 7.0 A
INPUT WATTS	COOLING	1.50 kW - 1.60 kW
	HEATING	1.47 kW - 1.54 kW
EER	COOLING	2.60 kW/kW - 2.50 kW/kW
	HEATING	3.20 kW/kW - 3.10 kW/kW
MOISTURE REMOVAL		1.1 L/hr
AIR CIRCULATION HIGH		640 m3/hr

FAN MOTOR

POWER SOURCE		220 V - 240 V
INDOOR UNIT	DISCRIMINATION	MFA-14FTT
	HIGH SPEED	840 r.p.m.
	MEDDLE SPEED	740 r.p.m.
	LOW SPEED	650 r.p.m.
OUTDOOR UNIT	DISCRIMINATION	MFB-09FT
	HIGH SPEED	740 r.p.m.
	LOW SPEED	440 r.p.m.

DIMENSIONS

INDOOR UNIT	H x W x D	217 x 953 x 595 mm
OUTDOOR UNIT	H x W x D	530 x 750 x 250 mm

WEIGHTS

INDOOR UNIT	Gross / Net	29 kg / 25 kg
OUTDOOR UNIT	Gross / Net	39 kg / 37 kg

COMPRESSOR

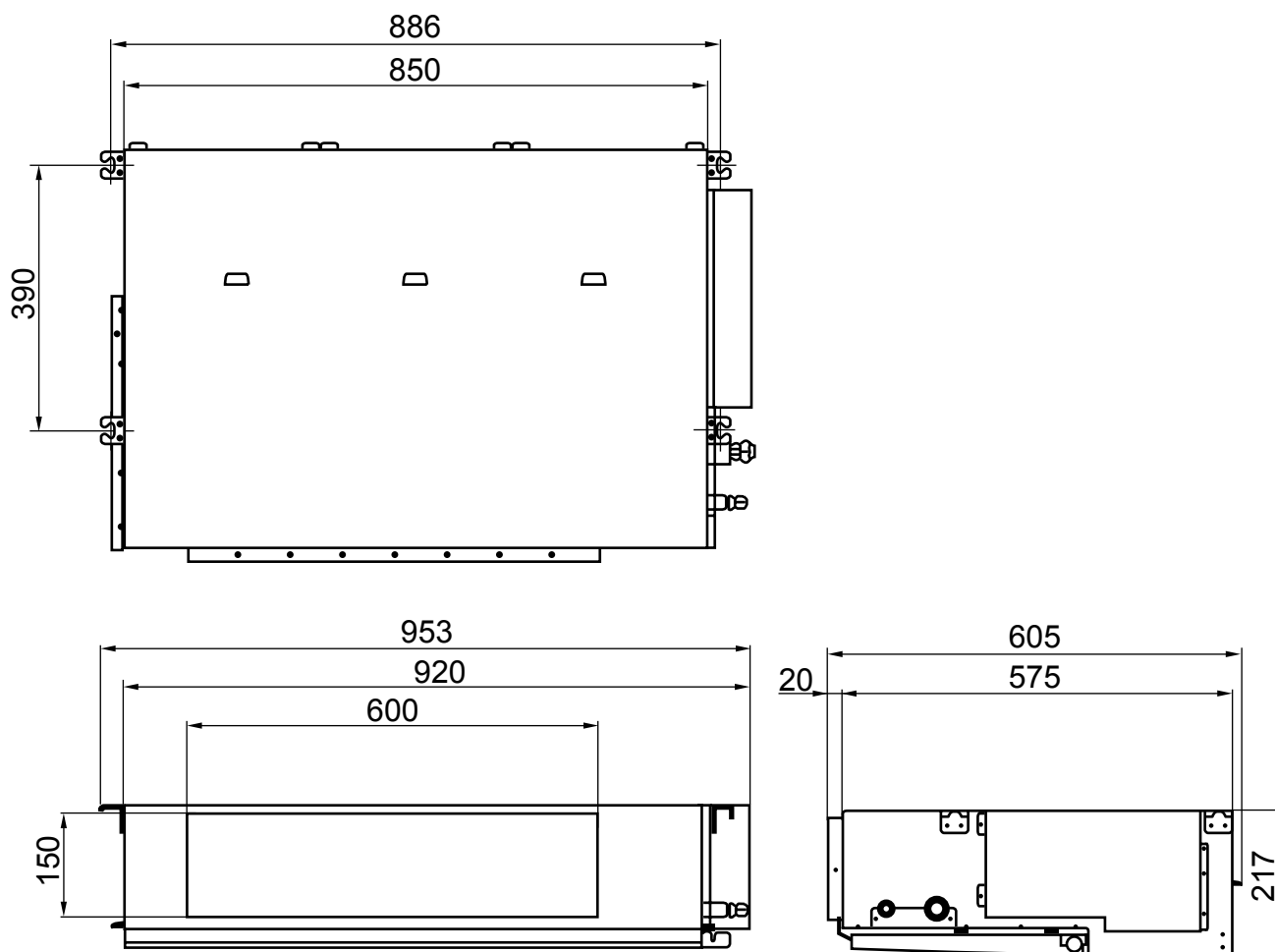
COMPRESSOR TYPE		Hermetic type, Permanent split condenser, 2 pole, Single phase, Induction motor
DISCRIMINATION		GRG163C
STANDARD REFRIGERANT R-22		1,000 g
FULL CHARGE	PIPE LENGTH 7.5 m (25 ft.)	1,000 g (35.3 oz.)
	10 m (33 ft.)	1,050 g (37.0 oz.)
	15 m (49 ft.)	1,150 g (40.6 oz.)
ADDITIONAL CHARGE		20 g/m (0.21 oz./ft.)

The above list shows values at the external static pressure of 0 Pa.

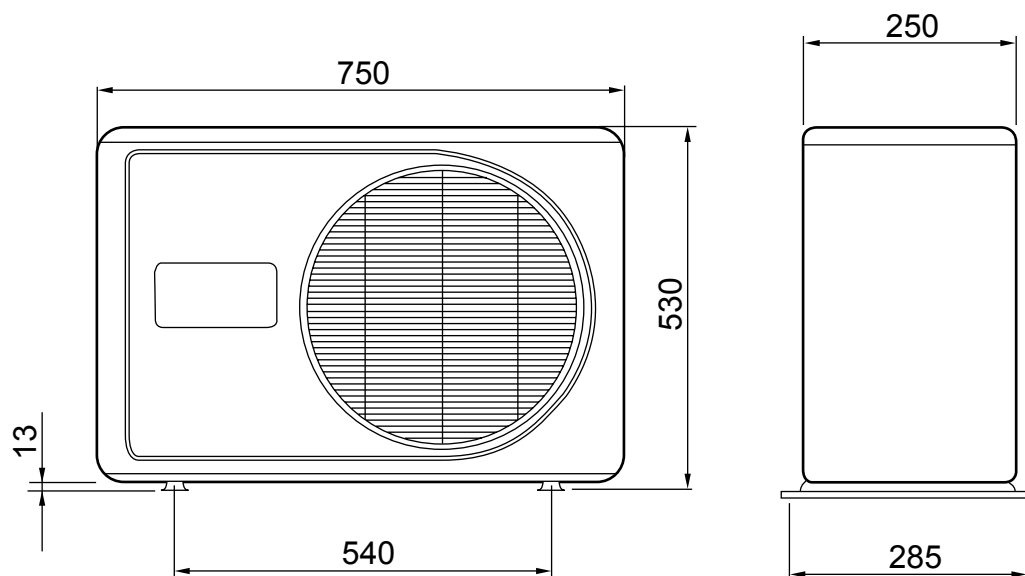
OUTLINE AND DIMENSIONS

Unit : mm

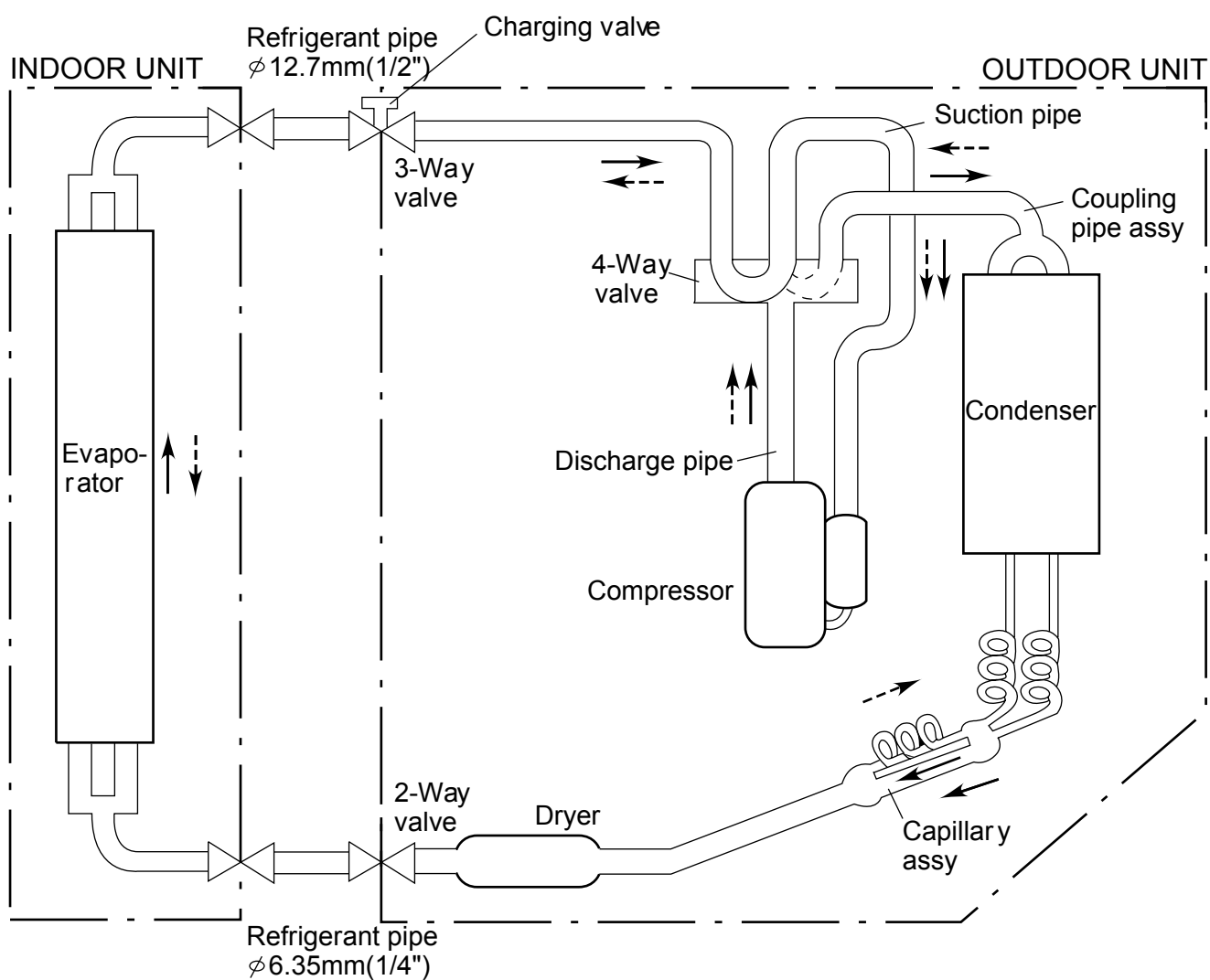
INDOOR UNIT



OUTDOOR UNIT

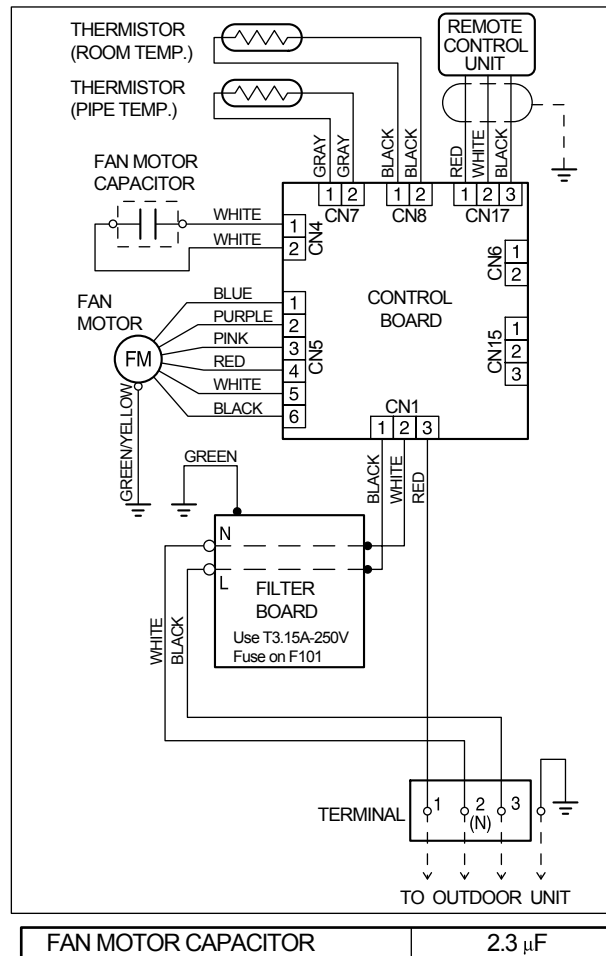


REFRIGERANT SYSTEM DIAGRAM

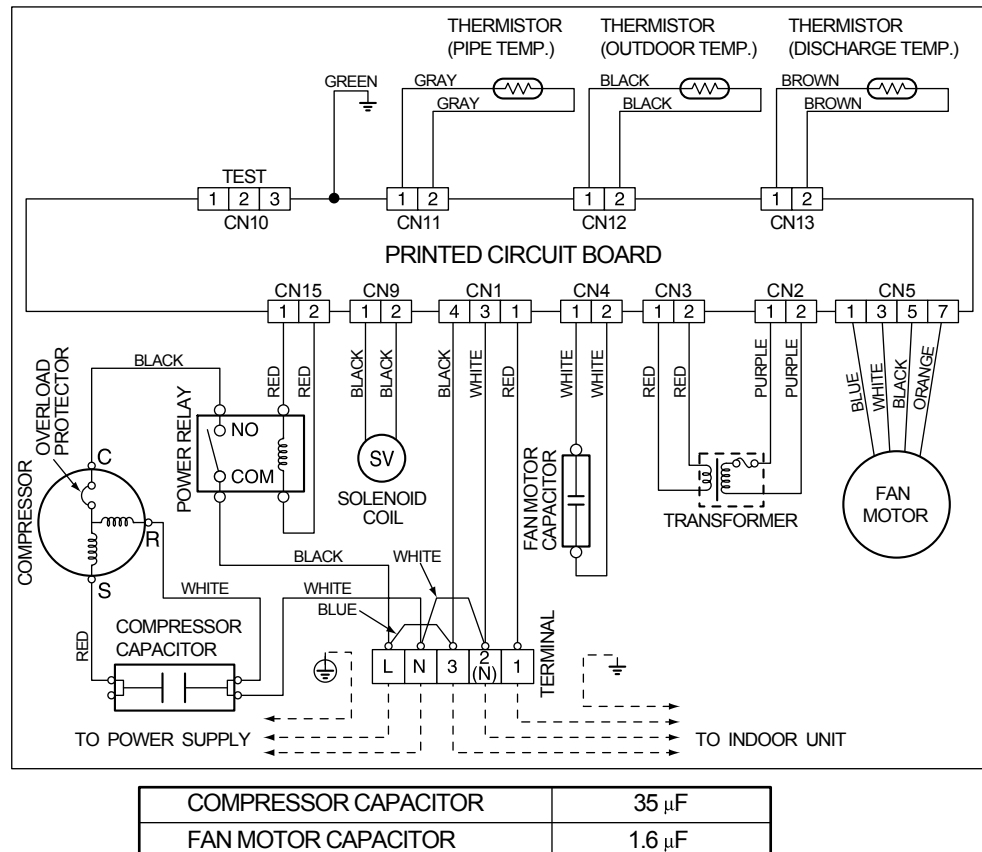


CIRCUIT DIAGRAM

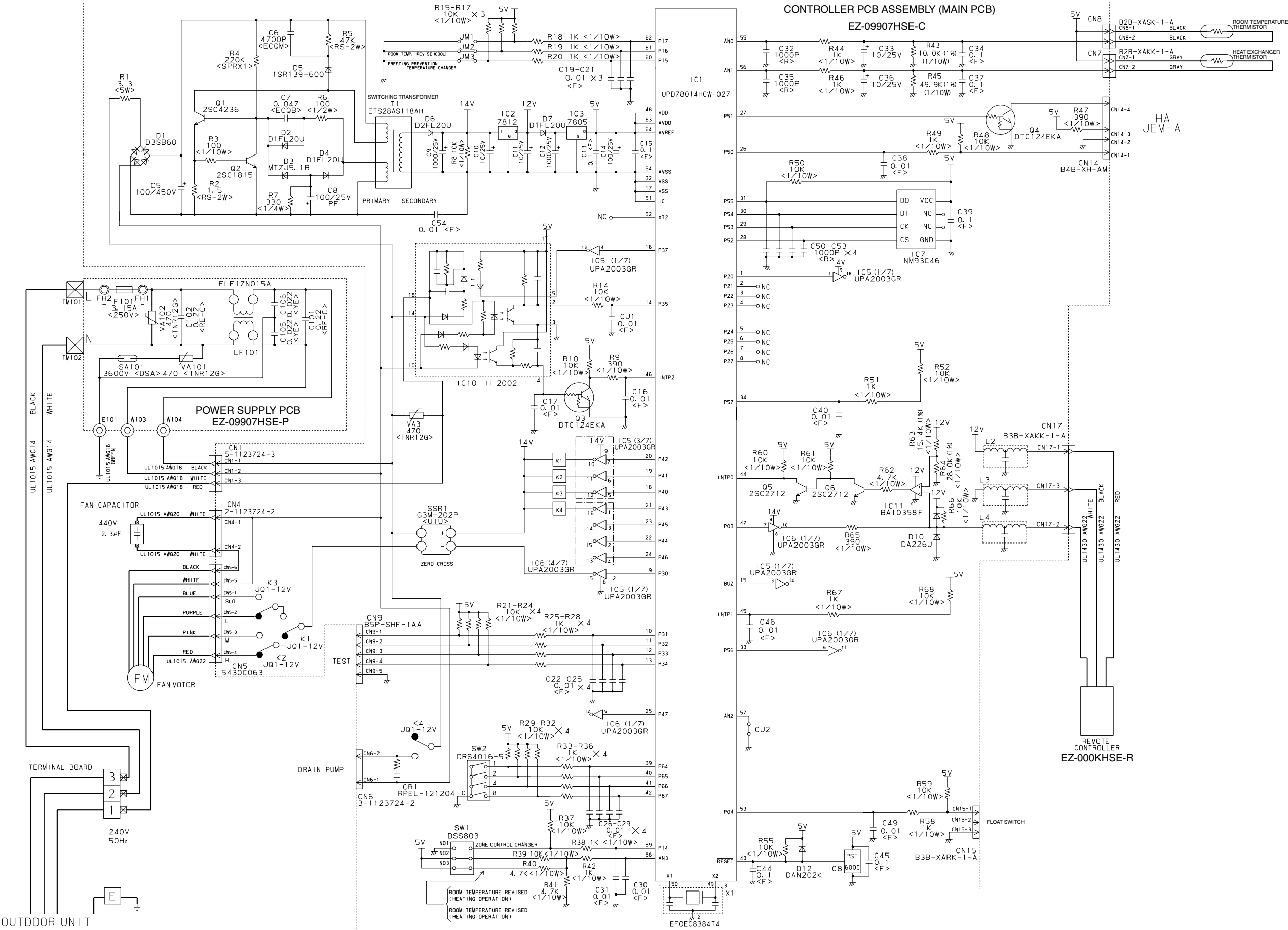
INDOOR UNIT



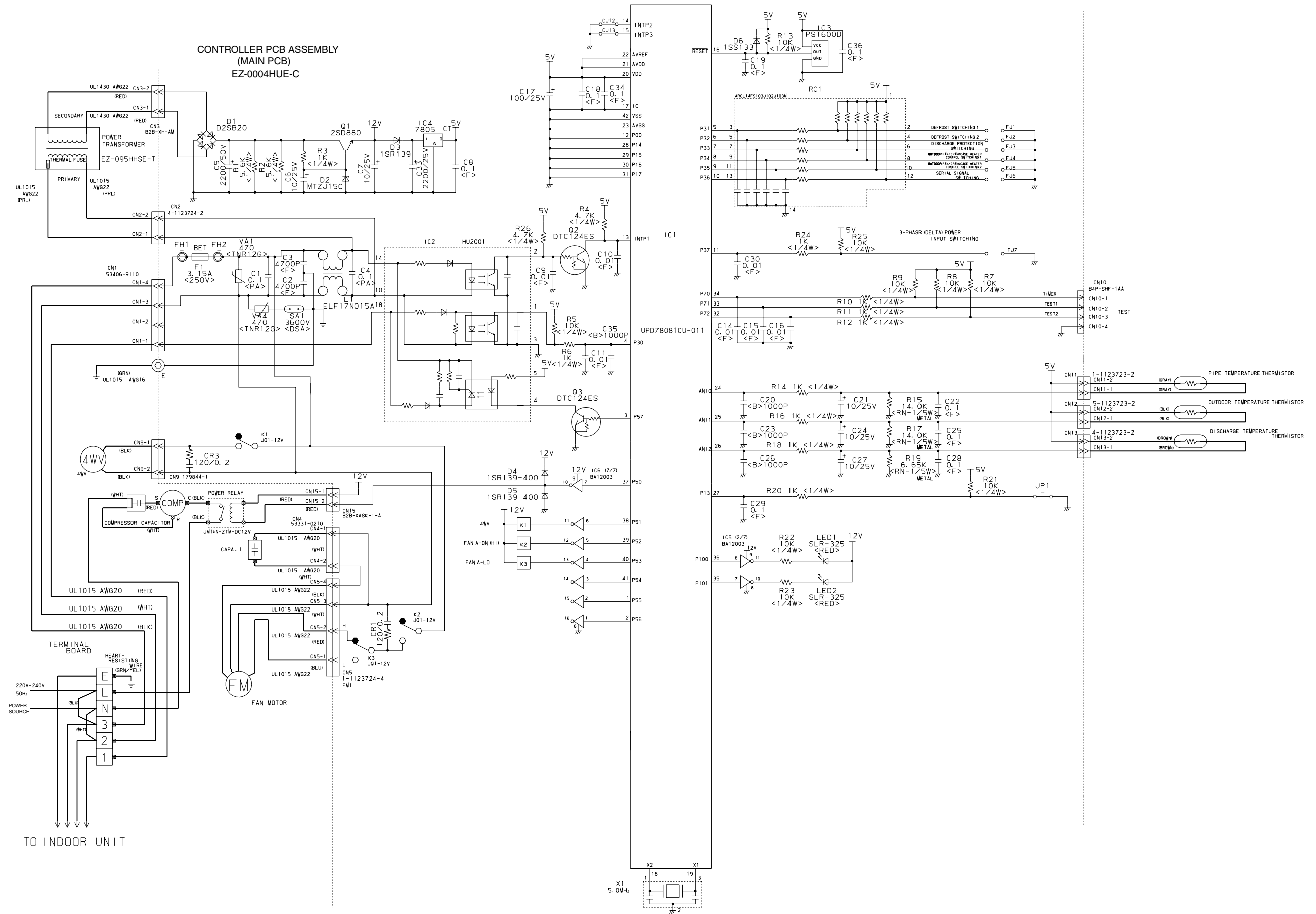
OUTDOOR UNIT



INDOOR PCB CIRCUIT DIAGRAM

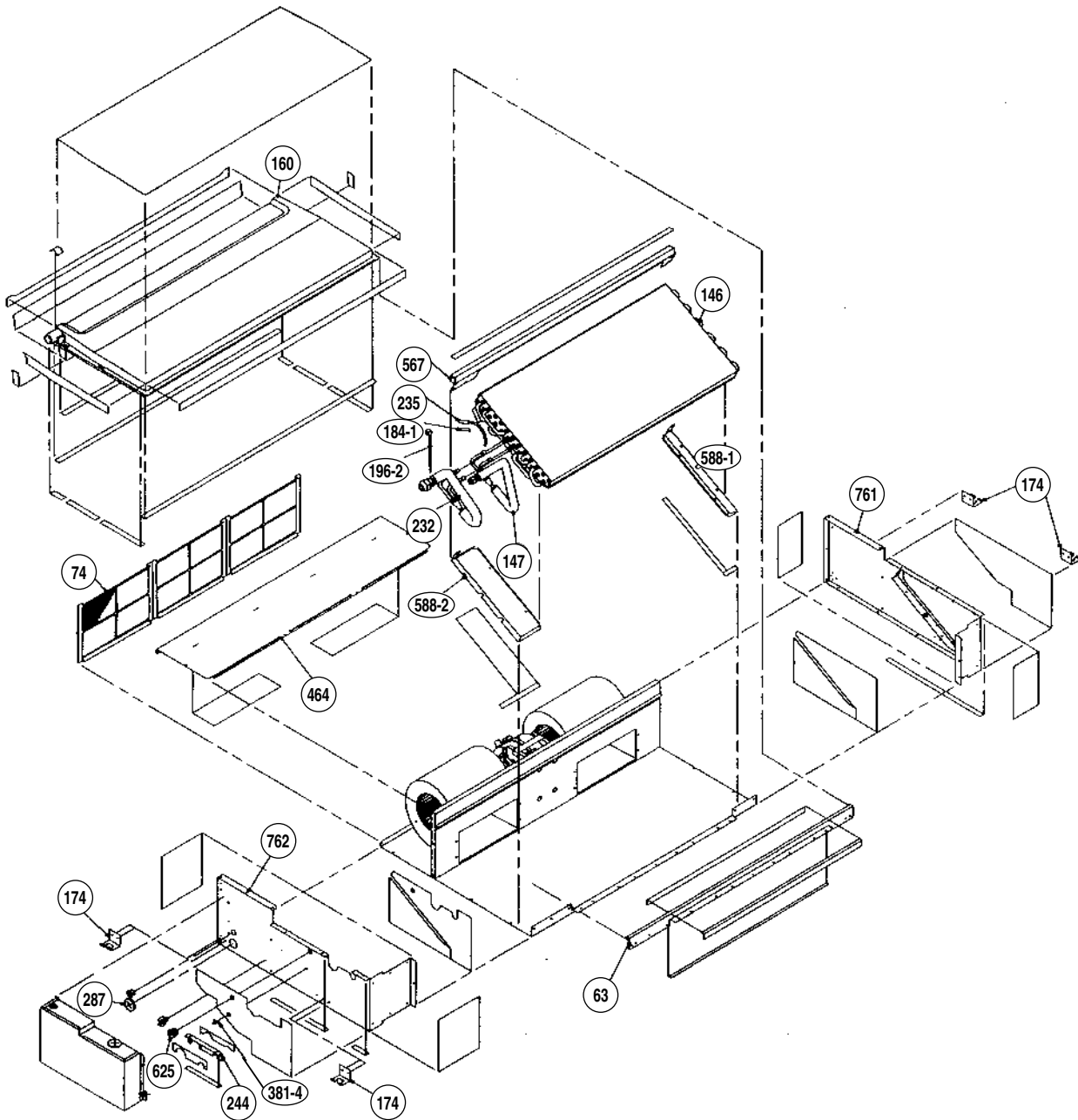


OUTDOOR PCB CIRCUIT DIAGRAM

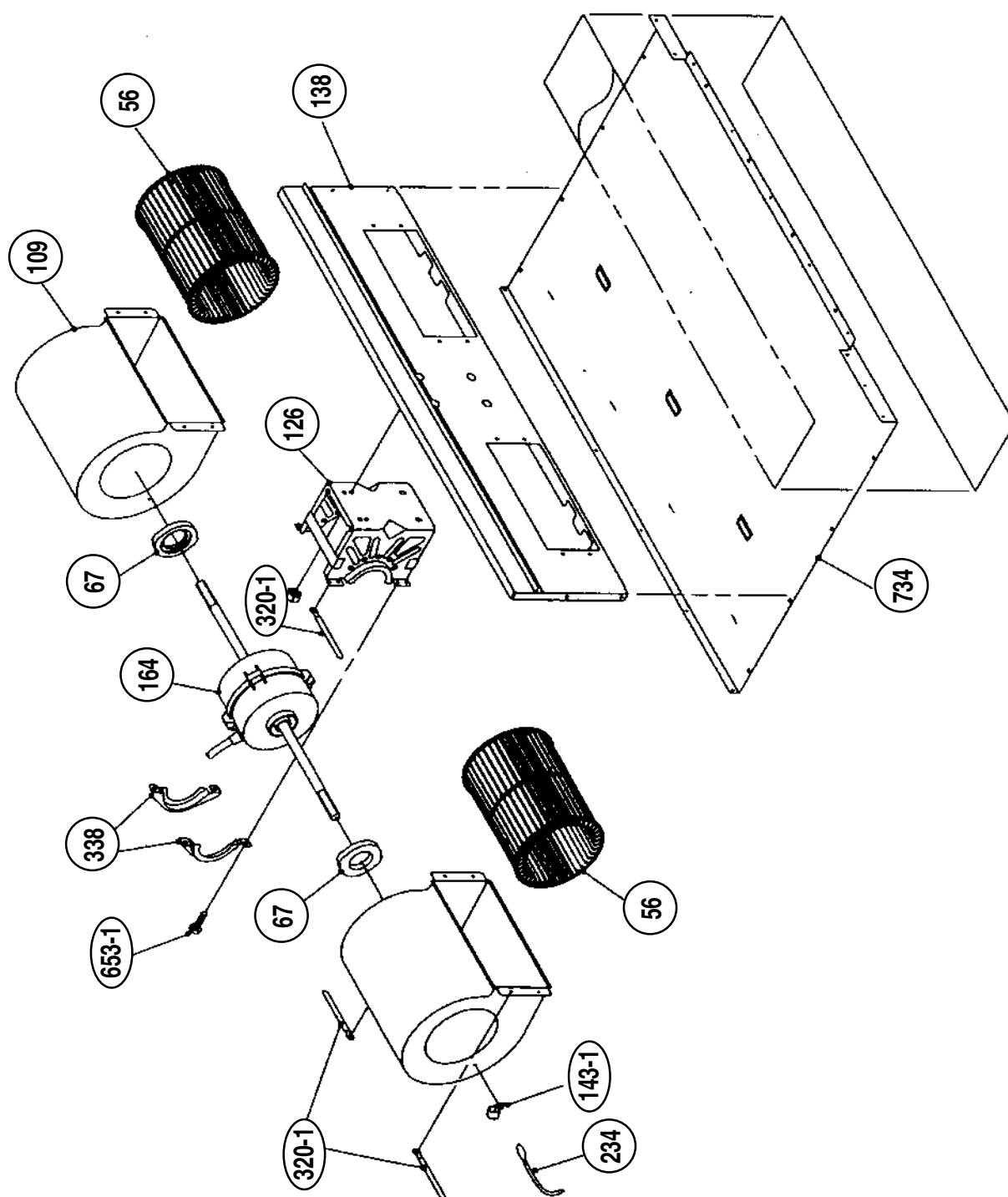


DISASSEMBLY ILLUSTRATION

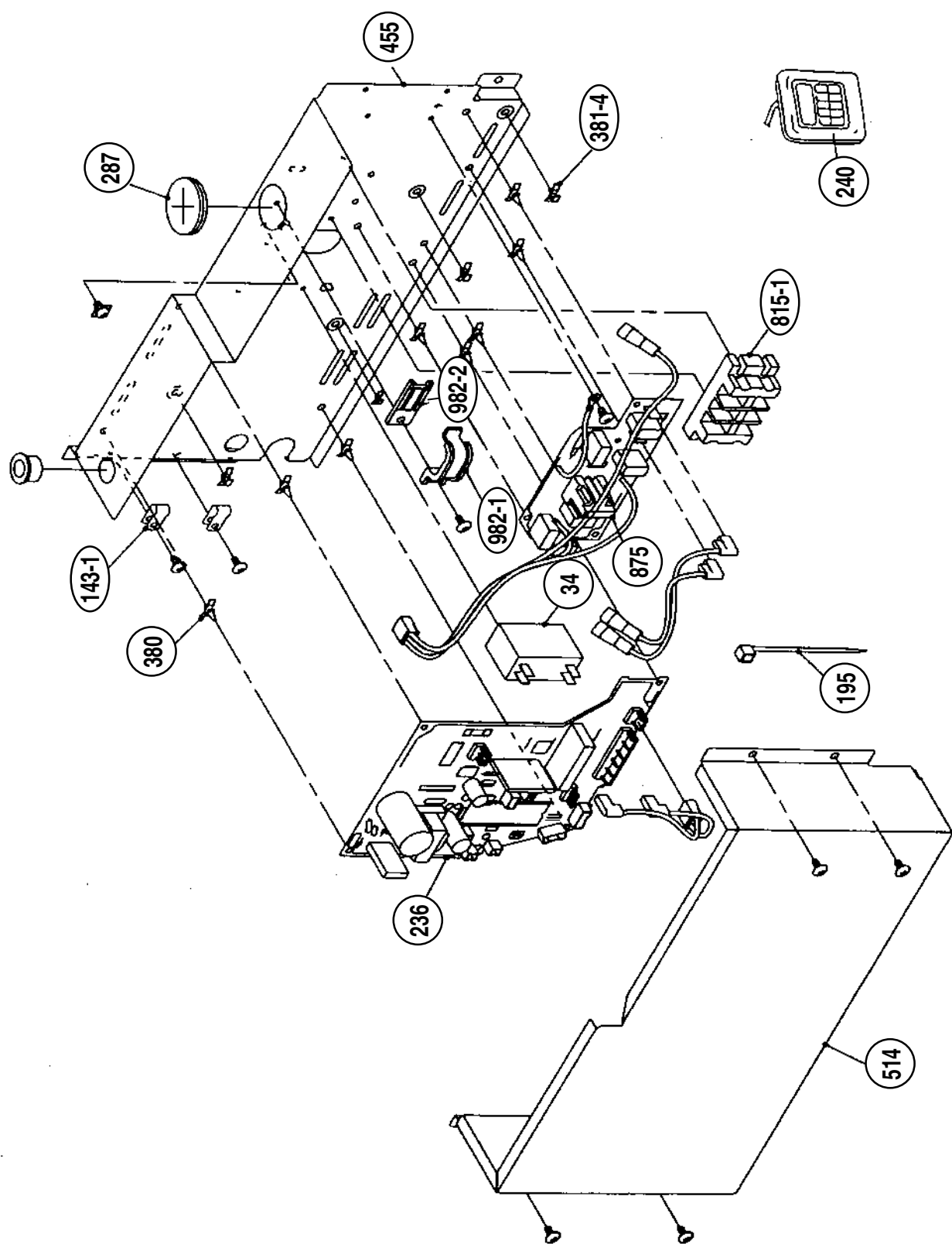
INDOOR UNIT



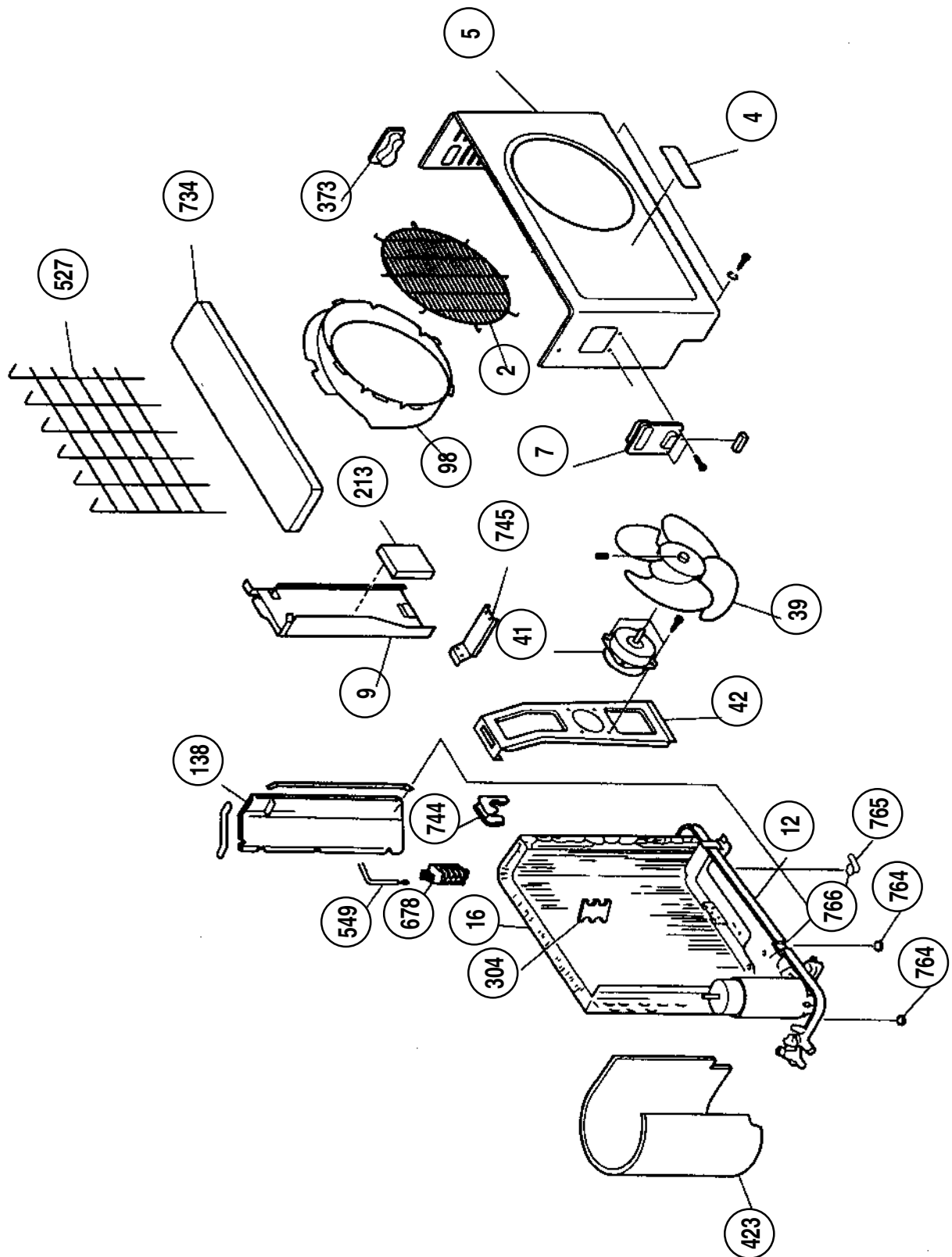
INDOOR UNIT



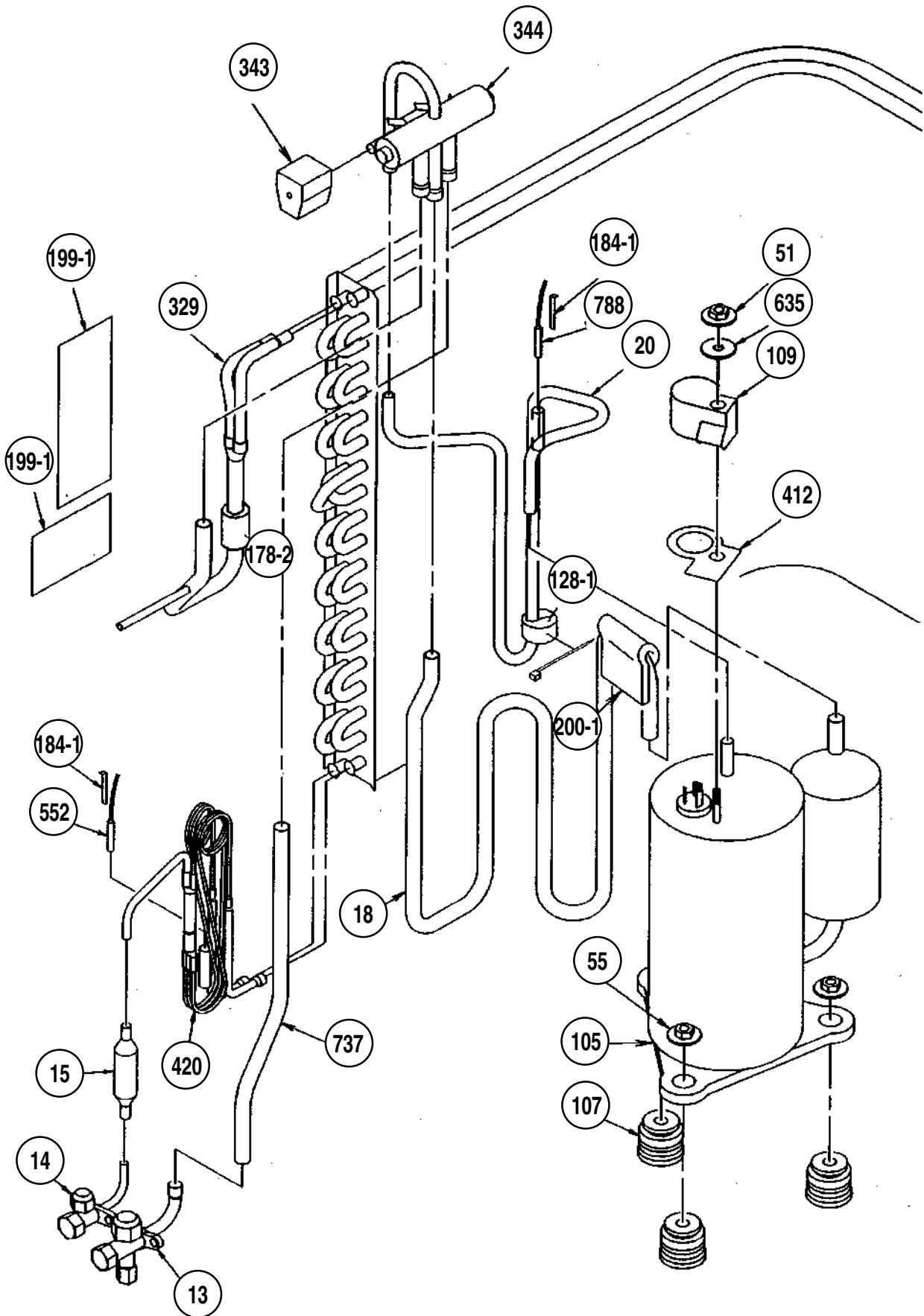
INDOOR UNIT



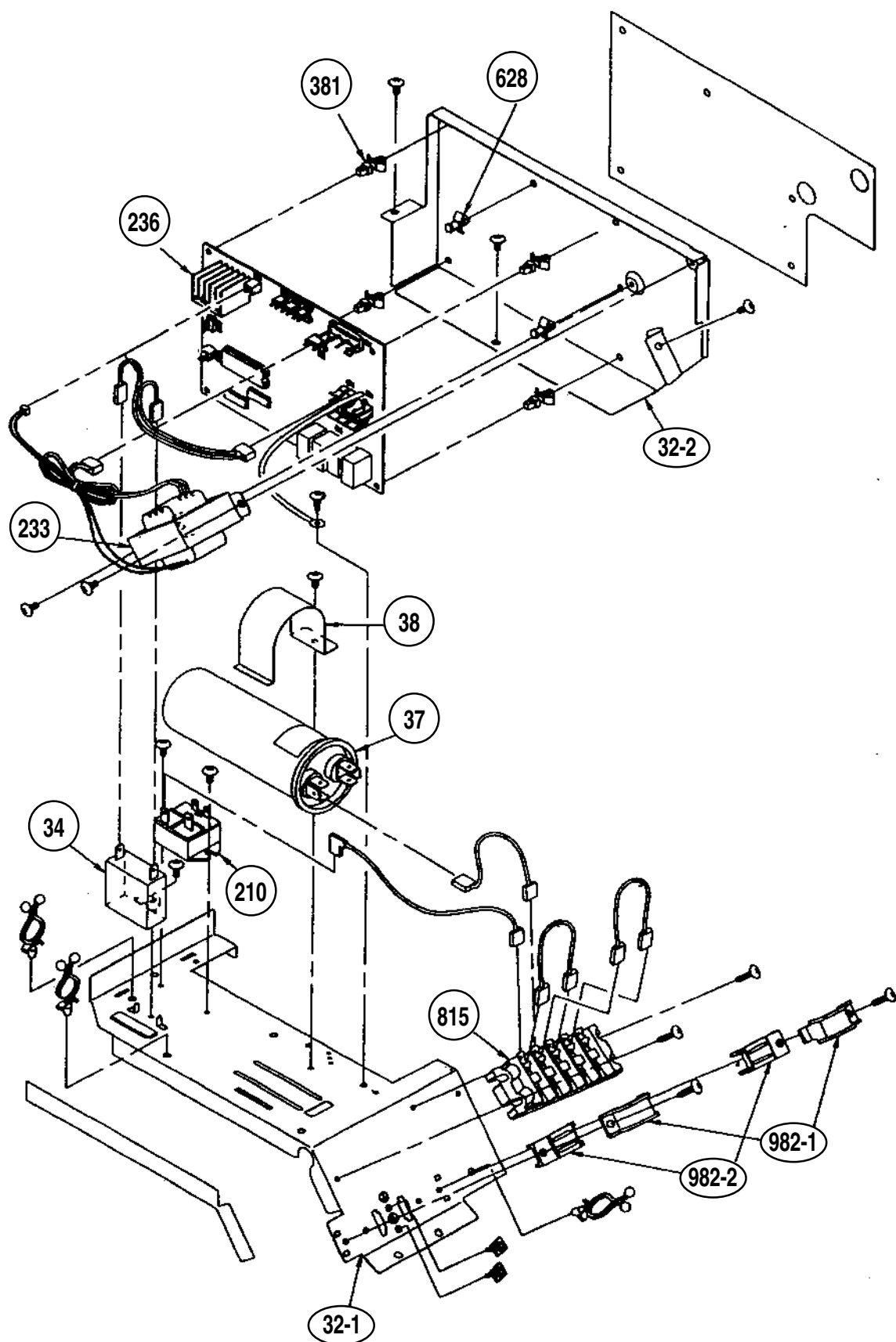
OUTDOOR UNIT



OUTDOOR UNIT



OUTDOOR UNIT



PARTS LIST

INDOOR UNIT

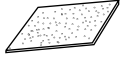
Ref.	Description	Part number	
34	Capacitor (Fan Motor)	9357965017	
56	Sirocco Fan Assy	9358621004	
63	Front Panel Assy	9363723007	
67	Rubber (Vibration - proof)	313659068604	
74	Intake Panel	9363326000	
109	Casing Assy	9363322002	
126	Motor Fixing Table Assy	9358591000	
138	Panel Assy (Motor)	9363401004	
143-1	Clamp NK-3N	313361274700	
146	Evaporator Assy	9364456034	
147	Inlet Pipe (Eva.) Assy	9363373004	
160	Drain Pan Assy	9363405002	
164	Fan Motor Assy	9600778098	
174	Hook Metal	9363195002	
184-1	Thermo. Spring-A	313728262708	
195	Clamp SKB-100	313361275805	
196-2	Clamp SKB-150	313035356905	
232	Outlet Pipe (Eva.) Assy	9363377002	
234	Thermistor Assy-Room	9703299018	
235	Thermistor Assy-Pipe	9703297052	
236	Controller PCB Assy	9703582028	
240	Remote Control Unit	9701673063	
244	Cover (Piping)	9363327007	
287	Cap (Power)	9352173011	
320-1	Wire Clamp Metal	313483219905	
338	Motor Fixture	9358594001	
380	Locking Spacer	313209391403	
381-4	Locking Spacer	0600118075	
455	Control Box	9363200003	
464	Cover (Cabinet)	9363400007	
514	Control Box Cover	9363201000	
567	Support Plate (Eva.)	9363404005	
588-1	Bracket Eva. R	9363199000	
588-2	Bracket Eva. L	9363198003	
625	Cord Bushing	9359240006	
653-1	Bolt (Fan Motor Fixing)	0700156014	
734	Panel Top	9363504002	
761	Side Panel-R Assy	9363507003	
762	Side Panel-L Assy	9363505009	
815-1	Terminal 3P	9356488005	
875	Filter PCB Assy	9703583018	
982-1	Cord Clamp	9356857009	
982-2	Cord Clamp-B	9356858006	

OUTDOOR UNIT

Ref.	Description	Part number		
		AOT14RGA	AOT14RGB	
2	Fan Cover	9304109006	9304109006	
4	Emblem-Rear	9351355005	9351355005	
5	Cabinet-A, Painted	9302936017	9302936017	
7	Connector Cover	9357970004	9357970004	
9	Cabinet-B, Painted	9303744017	9303744017	
12	Base Assy, Painted	9354493032	9354493032	
13	3-Way Valve	9364616001	9364616001	
14	2-Way Valve	9364615004	9364615004	
15	Dryer	313523082505	313523082505	
16	Condenser Assy	9365325001	9365325001	
18	Suction Pipe	9365665008	9365665008	
20	Discharge Pipe Assy	9365666005	9365666005	
32-1	Control Box Metal-A	9363406009	9363406009	
32-2	Control Box Metal-B	9363407006	9363407006	
34	Capacitor (Fan Motor)	9700468080	9900270018	
37	Running Capacitor	9356386066	9356386066	
38	Capacitor Clamp	313468061808	313468061808	
39	Propeller Fan Assy	9351589011	9351589011	
41	Fan Motor Assy-Out	9600649107	9600649107	
42	Bracket (Motor)	313166243804	313166243804	
51	Special Nut	9359430018	9359430018	
55	Special Nut M8 (For Comp.)	9355091008	9355091008	
98	Fan Ring	313166296109	313166296109	
105	Compressor Assy	9364723006	9364723006	
107	Rubber Seat-A (For Comp.)	9359425014	9359425014	
109	Terminal Cover (For Comp.)	9364724003	9364724003	
128-1	Rubber (Discharge Pipe)	313155086308	313155086308	
138	Separate Wall	9303729014	9303729014	
178-2	Capillary Holder Rubber	313394274808	313394274808	
184-1	Thermo. Spring-A	313728262708	313728262708	
199-1	BR Sheet	313612108209	313612108209	
200-1	BR Sheet-B	9351990022	9351990022	
210	Main Relay	9356781007	9900264017	
213	Noise Insulation-B	313584258005	313584258005	
233	Power Transformer	9701549016	9701549016	
236	Controller PCB Assy	9703572012	9703572012	
304	Thermostat Fixture-B	313349051500	313349051500	
329	Joint Pipe Assy	9352375002	9352375002	
343	Solenoid Coil	9359616122	9359616122	
344	4-Way Valve	313943302804	313943302804	
373	Grip	313166178700	313166178700	
381	Locking Spacer	313209391506	313209391506	
412	Terminal Gasket	9364725000	9364725000	
420	Capillary Assy	9365382004	9370140040	
423	Noise Insulation-F	9350944019	9350944019	
527	Protection Net	9355444002	9355444002	
549	Thermistor Assy-Out	9357328027	9900037017	
552	Thermistor Assy	9701330034	9900043018	
628	Locking Spacer-B	313005446558	313005446558	
635	Terminal Washer	9359428015	9359428015	
678	Bracket (Thermistor)	313557406106	313557406106	
734	Cabinet Top Plate	9302937014	9302937014	
737	Suction Pipe-A	9357048000	9357048000	
744	Clamp (Condenser)	313166374106	313166374106	
745	Motor Support	313166036308	313166036308	
764	Drain Cap	313166024302	313166024302	
765	Drain Pipe (L-type)	9301102000	9301102000	
766	Drain Pipe Packing	9301143003	9301143003	
788	Thermistor-Discharge	9358337011	9900038014	
815	Terminal-5P	9356497021	9356497021	
982-1	Cord Clamp	9356857009	9356857009	
982-2	Cord Clamp-C	9359677000	9359677000	

STANDARD ACCESSORIES

INDOOR UNIT

Name and Shape	Q'ty	Application	Part No.
Installation template 	1	For positioning the indoor unit	9364225005
Hook Metal 	4	For suspending the indoor unit from ceiling	9363195002
Tapping screw (φ 4 x 10) 	8	For installing the hanger	301171164104
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) 	1	For indoor side pipe joint (large pipe)	9350716029
Coupler heat insulation (small) 	1	For indoor side pipe joint (small pipe)	9352766015
Binder 	(Small) 1	For remote control unit and remote control unit cord binding	313361275805
	(Large) 4	For fixing the coupler heat insulation	312300787605
Remote control unit 	1		9701673063
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
Filter 	3		9363326000
Drain hose insulation 	1	Insulates the drain hose and vinyl hose connection	313806217708

OUTDOOR UNIT

Name and Shape	Q'ty	Application	Part No.
Hexagon wrench 	1	For vacuum	301980005800
Drain pipe packing 	1	For outdoor unit drain piping work (May not be supplied, depending on the model)	9301143003
Drain pipe 	1		9301102000
Cap (drain) 	2		313166024302

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