



MULTI AIR CONDITIONER WALL MOUNTED CASSETTE type

SERVICE MANUAL



Models

Indoor unit

Outdoor unit

ASH12FMBD

AOH24FSBV2

AUH12FMAB



CONTENTS

SPECIFICATIONS	1
OUTLINE AND DIMENSIONS	2
REFRIGERANT SYSTEM DIAGRAM	5
CIRCUIT DIAGRAM	6
INDOOR PCB CIRCUIT DIAGRAM	8
ERROR CONTENTS	10
DISASSEMBLY ILLUSTRATION	11
PARTS LIST	21
STANDARD ACCESSORIES	24

SPECIFICATIONS

ELECTRICAL DATA

TYPE	COOL			
INDOOR UNIT	ASH12FMBD	ASH12FMBD x 2	AUH12FMAB	AUH12FMAB x 2
OUTDOOR UNIT	AOH24FSBV2			
COOLING CAPACITY	3.50 kW	7.00 kW	3.50 kW	7.00 kW
POWER SOURCE	230 V			
FREQUENCY	50 Hz			
RUNNING CURRENT	5.9 A	11.2 A	5.9 A	11.2 A
INPUT WATTS	1.32 kW	2.49 kW	1.32 kW	2.49 kW
E.E.R.	2.65 kW/kW	2.81 kW/kW	2.65 kW/kW	2.81 kW/kW
MOISTURE REMOVAL	1.3 L/hr	2.6 L/hr	1.3 L/hr	2.6 L/hr
AIR CIRCULATION-High	520 m3/hr	520 m3/hr x 2	550 m3/hr	550 m3/hr x 2

INDOOR UNIT

MODEL NAME		ASH12FMBD	AUH12FMAB
FAN MOTOR	HIGH-SPEED	1,310 r.p.m.	760 r.p.m.
	MED-SPEED	1,230 r.p.m.	690 r.p.m.
	LOW-SPEED	1,150 r.p.m.	610 r.p.m.
	QUIET	1,080 r.p.m.	-----
DIMENSIONS	H x W x D	257 x 808 x 187 mm	235 x 580 x 580 + 70 mm
WEIGHT	GROSS / NET	10 kg / 8 kg	23 kg / 18 kg
NOISE LEVEL	HIGH-SPEED	40 dB	42 dB
	MED-SPEED	38 dB	39 dB
	LOW-SPEED	36 dB	36 dB
	QUIET	35 dB	-----

OUTDOOR UNIT

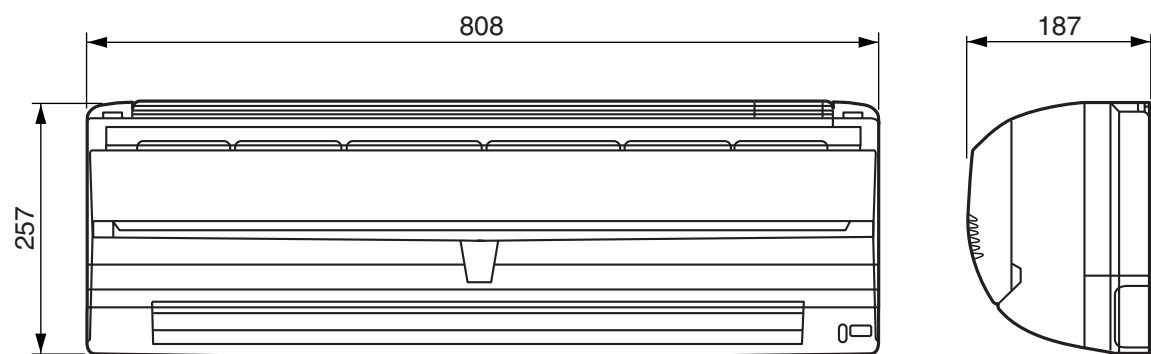
MODEL NAME		AOH24FSBV2
COMPRESSOR TYPE		Hermetic type, Permanent split condenser, 2 pole, Single phase, Induction motor, Rotary
COMPRESSOR DISCRIMINATION		802 354 35B
POWER SOURCE		230V - 50Hz
REFRIGERANT R410A		800 g x 2
ADDITIONAL CHARGE		10 g/m
CHARGELESS PIPE LENGTH		7.5 m
MAXIMUM PIPE LENGTH		15 m
FAN MOTOR		780 r.p.m.
DIMENSIONS H x W x D		700 x 900 x 330 mm
WEIGHT GROSS / NET		75 kg / 68 kg
NOISE LEVEL		52 dB

OUTLINE AND DIMENSIONS

INDOOR UNIT (Wall mounted type)

Model : ASH12FMBD

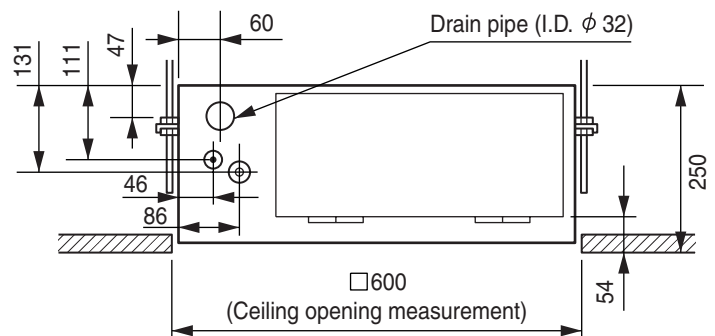
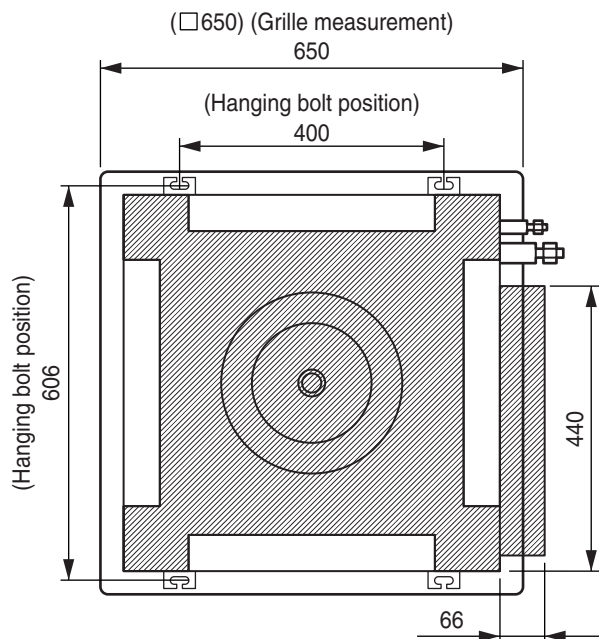
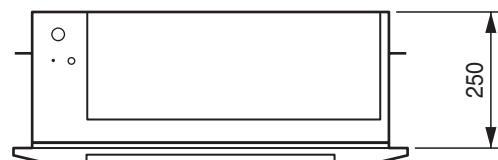
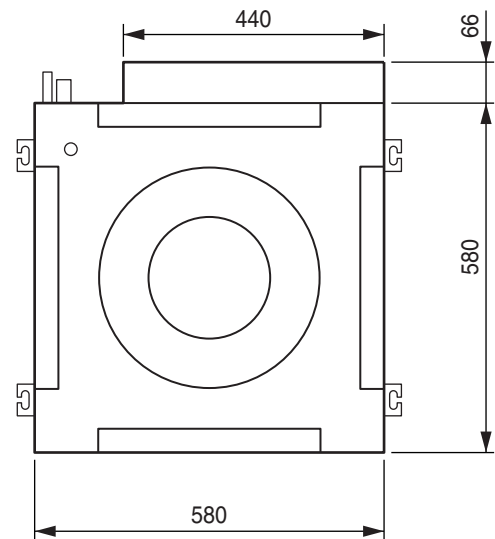
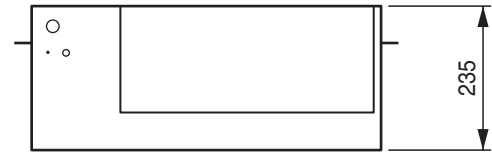
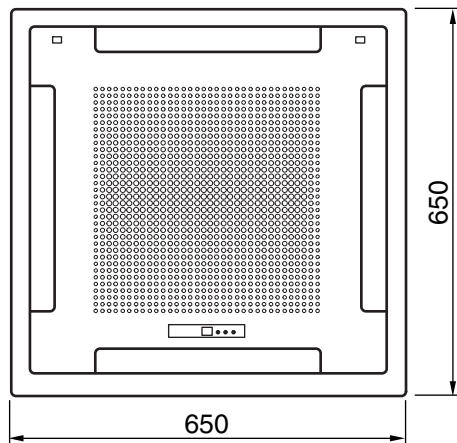
(Unit : mm)



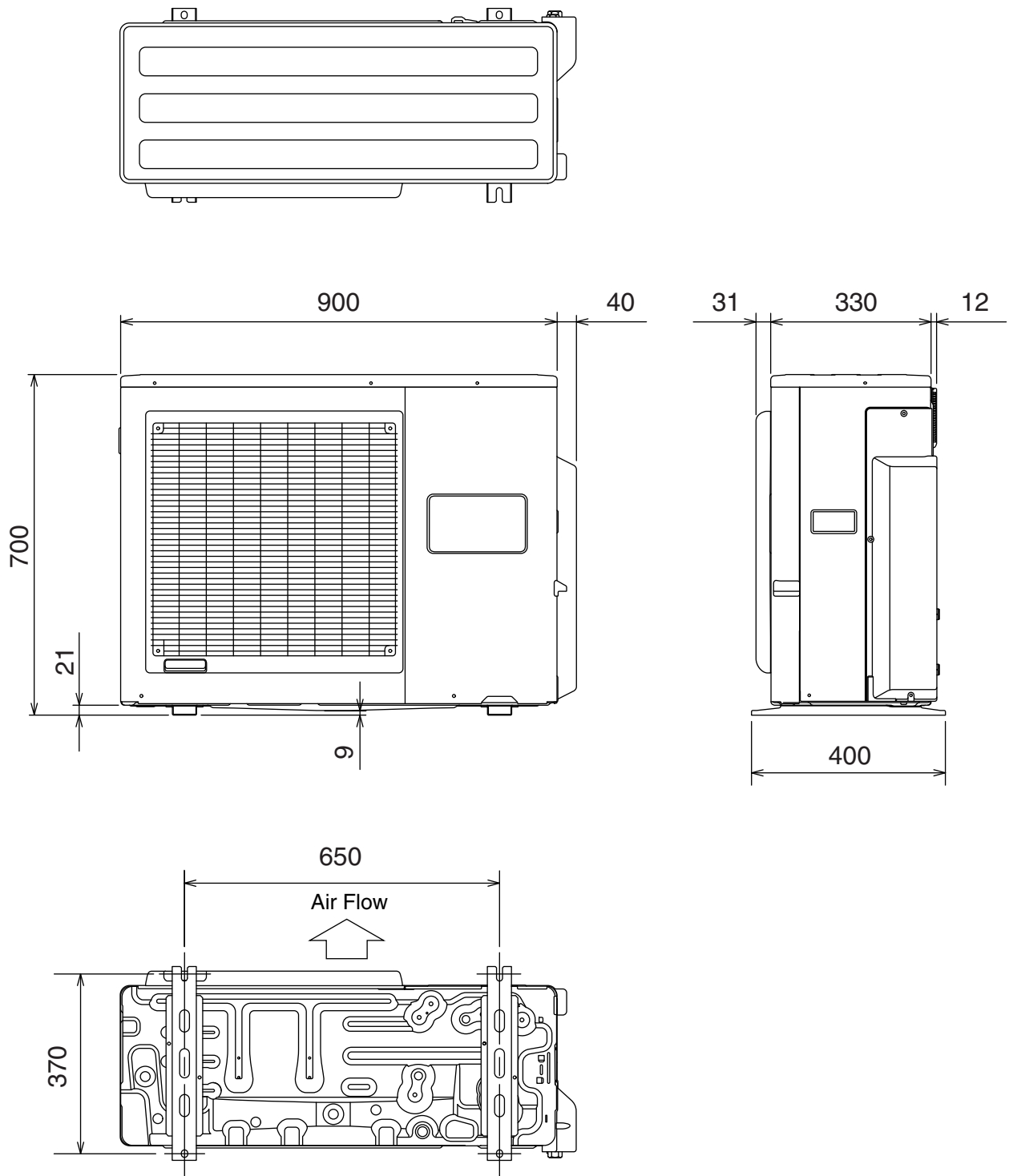
INDOOR UNIT (Cassette type)

Model : AUH12FMAB

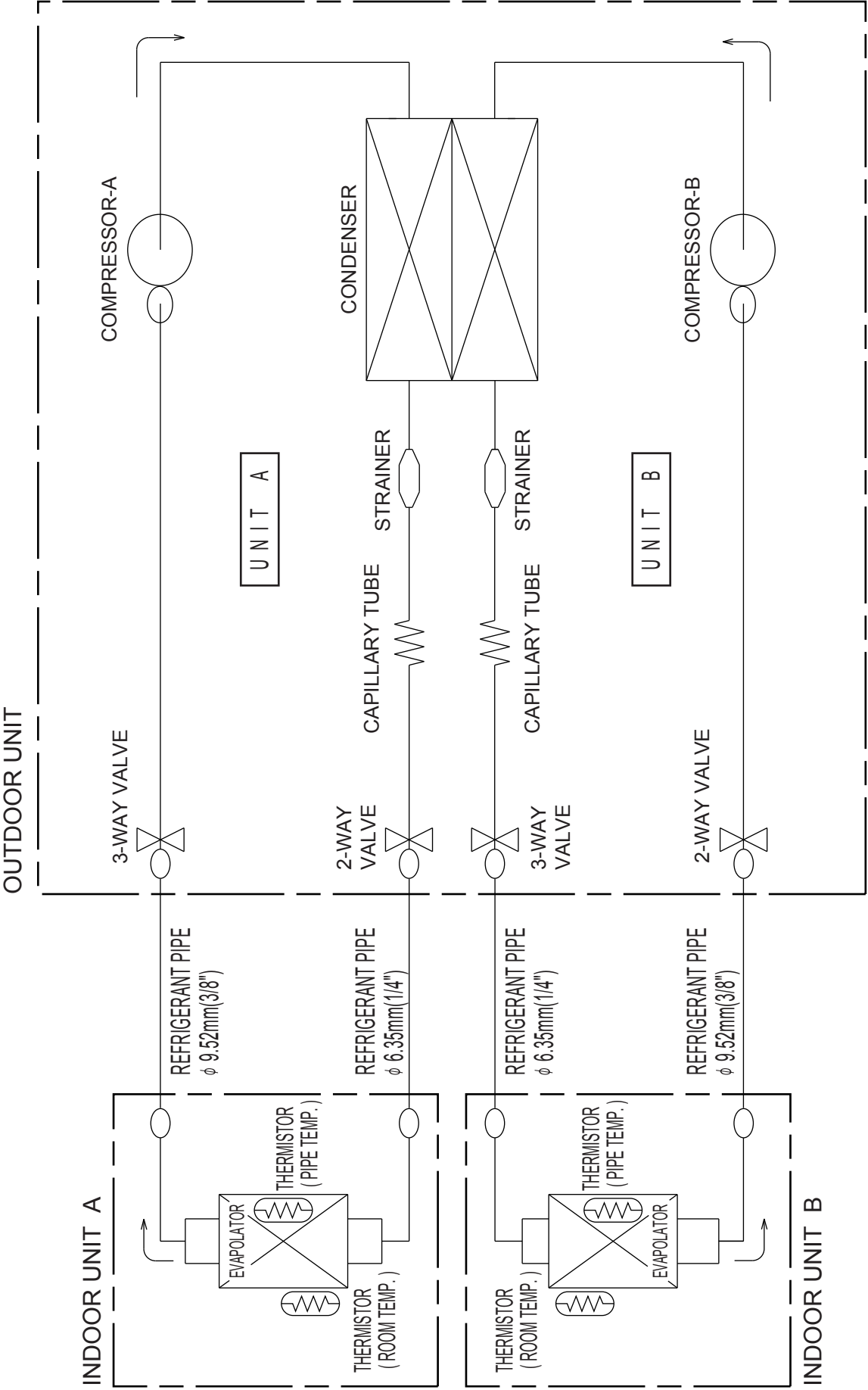
(Unit : mm)



OUTDOOR UNIT
Model : AOH24FSBV2
(Unit : mm)



REFRIGERANT SYSTEM DIAGRAM

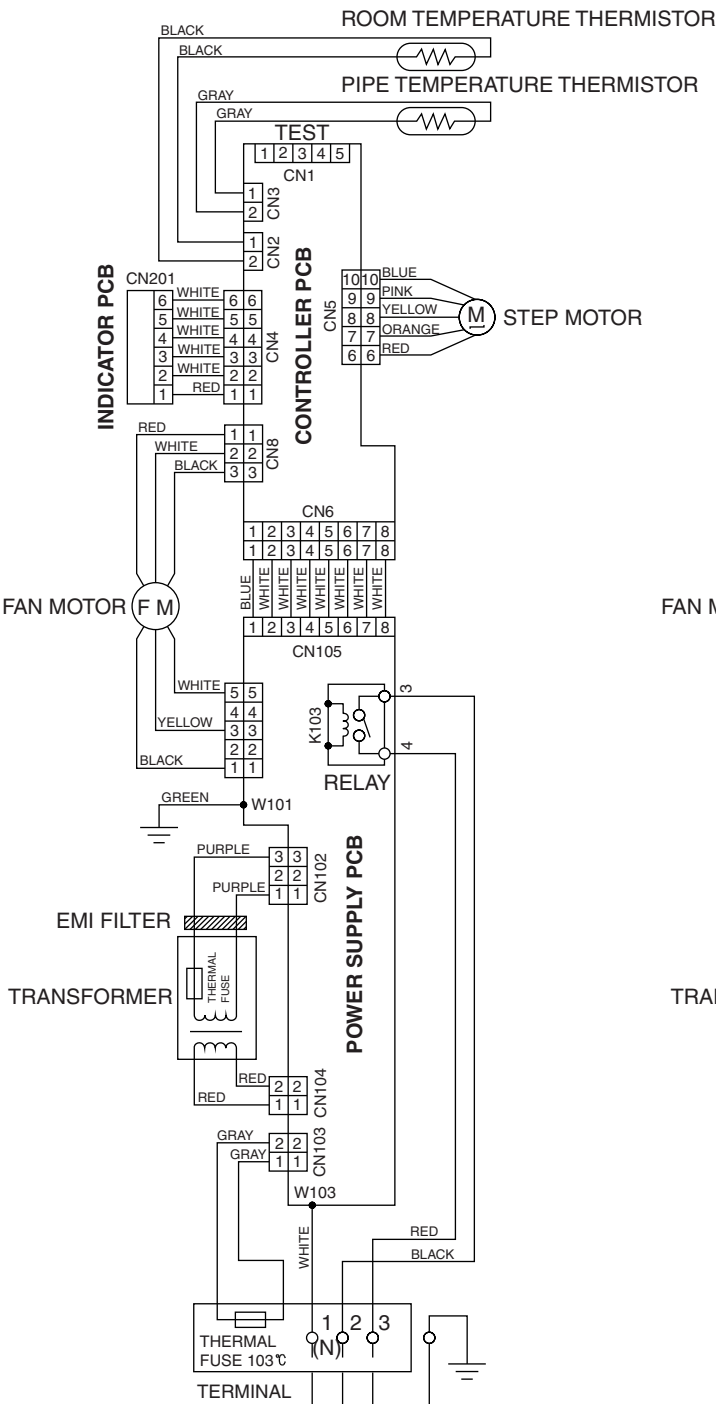


CIRCUIT DIAGRAM

Models : ASH12FMBD / AOH24FSBV2

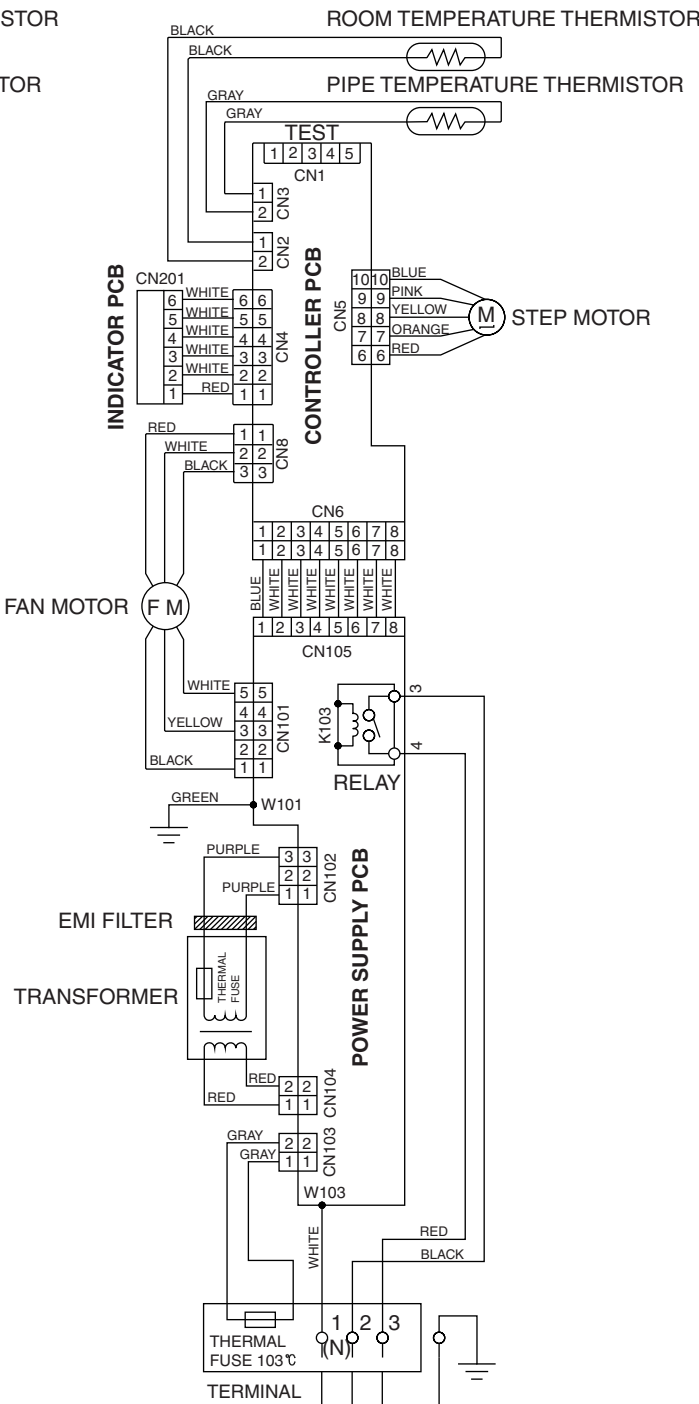
INDOOR UNIT

Wall Mounted type



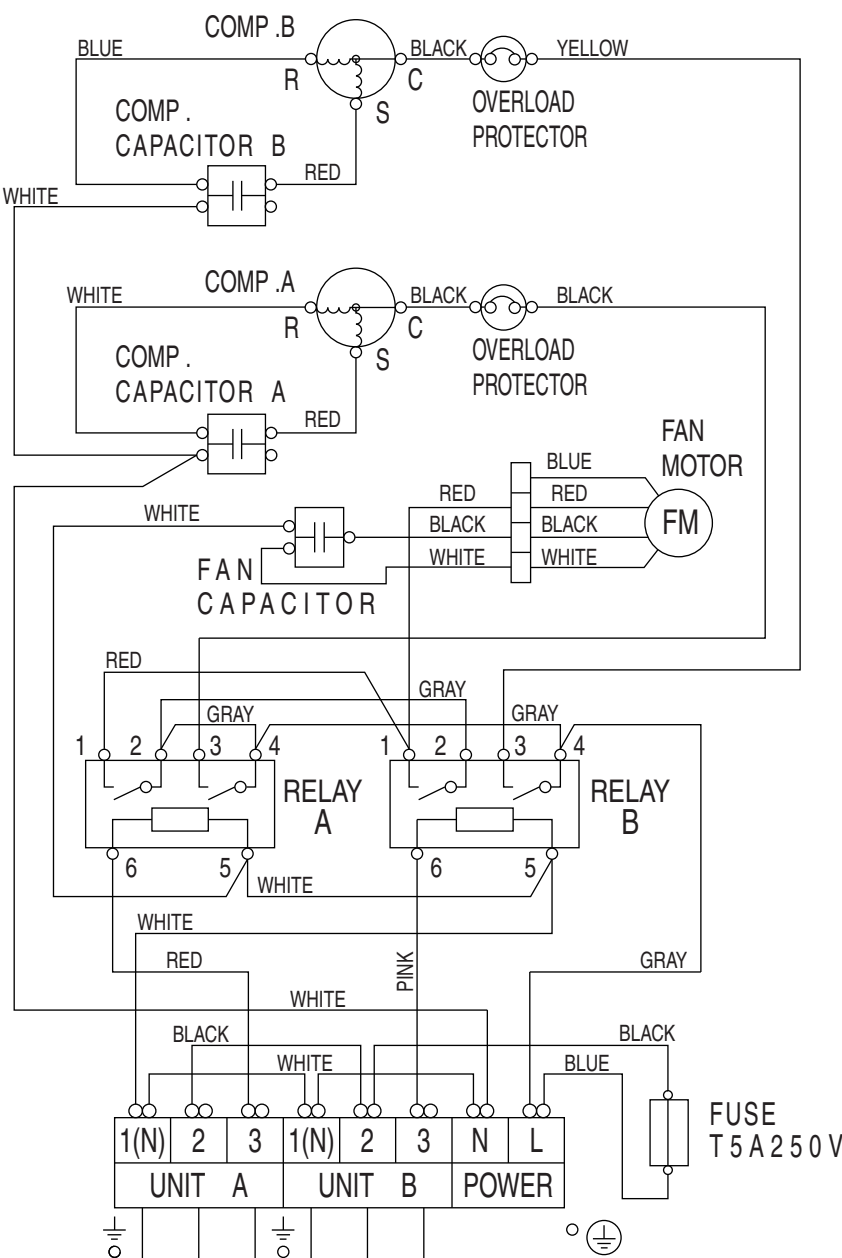
UNIT A

Wall Mounted type



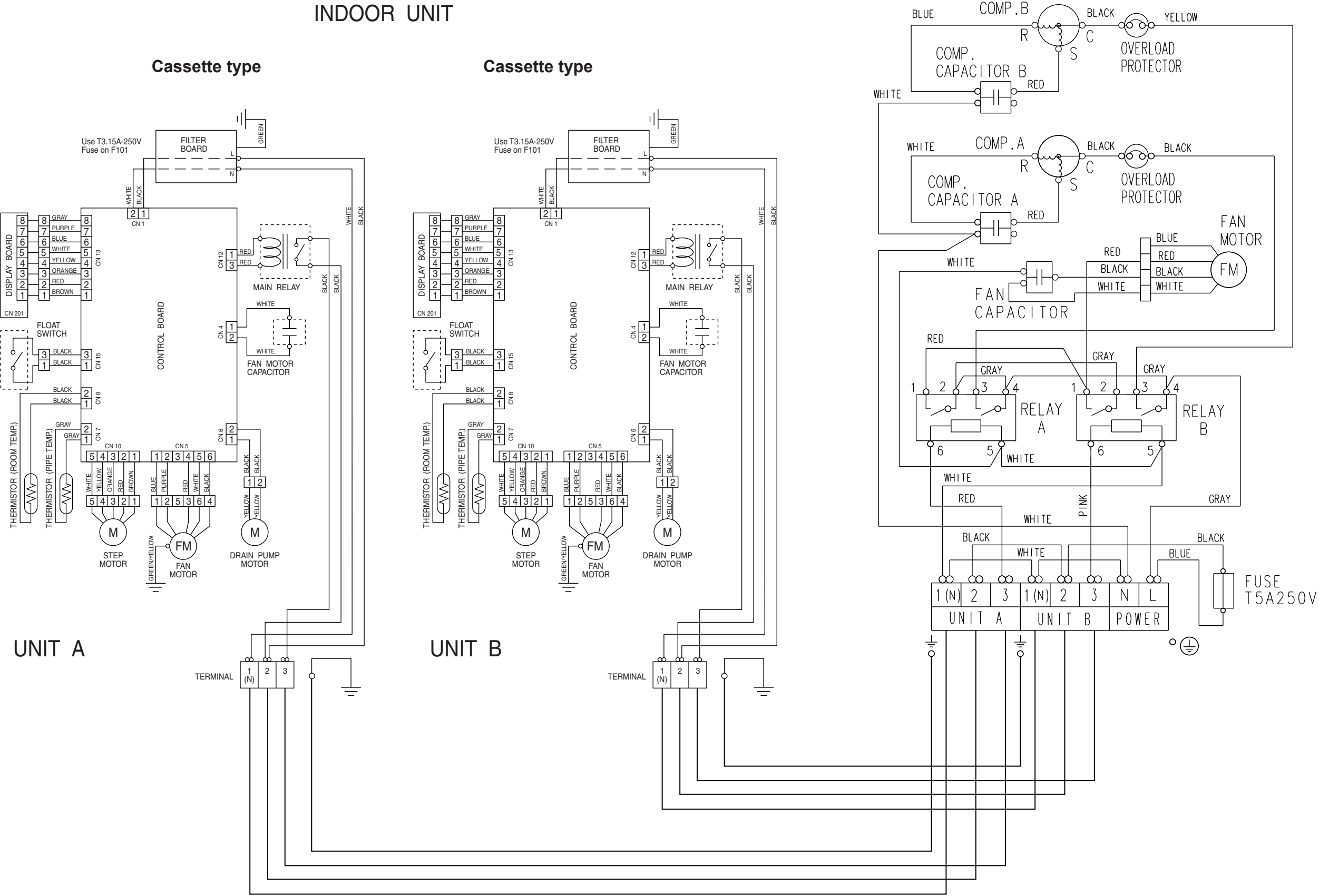
UNIT B

OUTDOOR UNIT



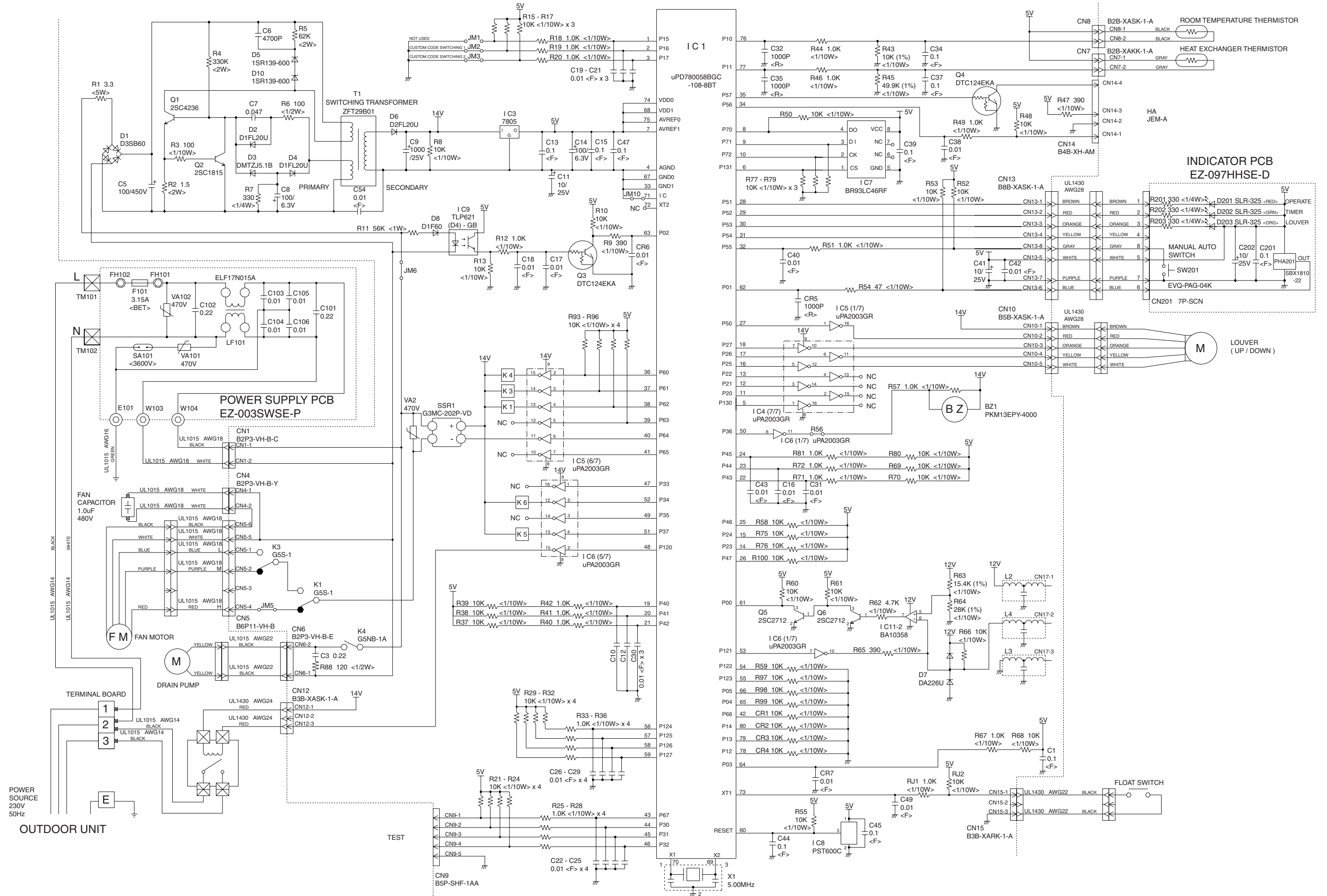
Models : AUH12FMAB / AOH24FSBV2

OUTDOOR UNIT



Model : ASH12FMBD

CONTROLLER PCB ASSEMBLY (MAIN PCB)
K01AL-040FWSE-C1



ERROR CONTENTS

INDOOR UNIT (Wallmounted type)

○ : Fast flashing ● : Slow flashing

Operation lamp : Red lamp

Timer lamp : Green lamp

Large division indication			Small division indication		
Error contents	LED indication		Error contents	LED indication	
circuit board error (indoor unit)	Red lamp Green lamp	○ ○	----	----	----
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)

When an error occurs, "Large division indication" is indicated first.

Secondly, "Small division indication" is indicated by pushing "Test" button of remote controller.

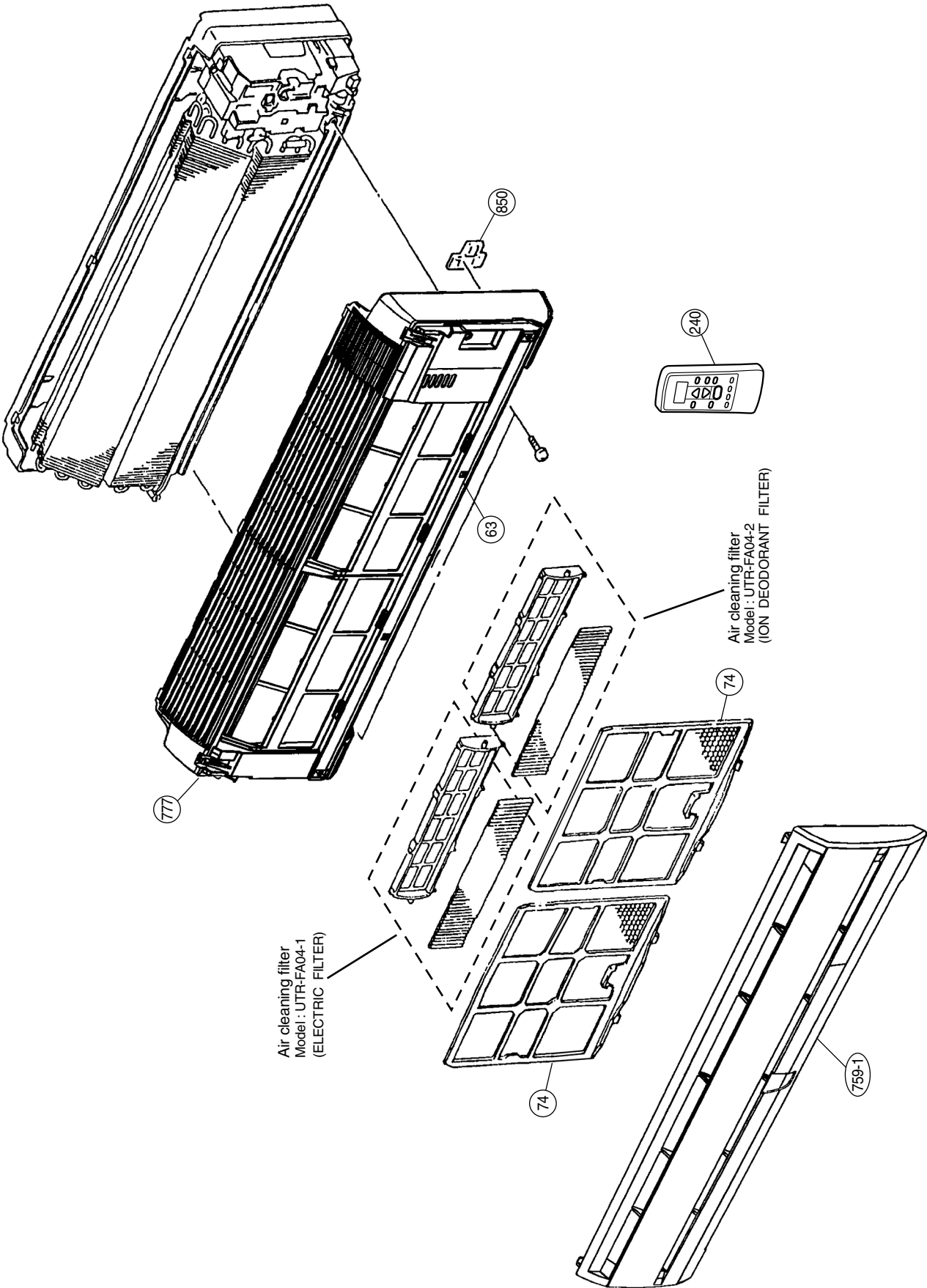
INDOOR UNIT (Cassette type)

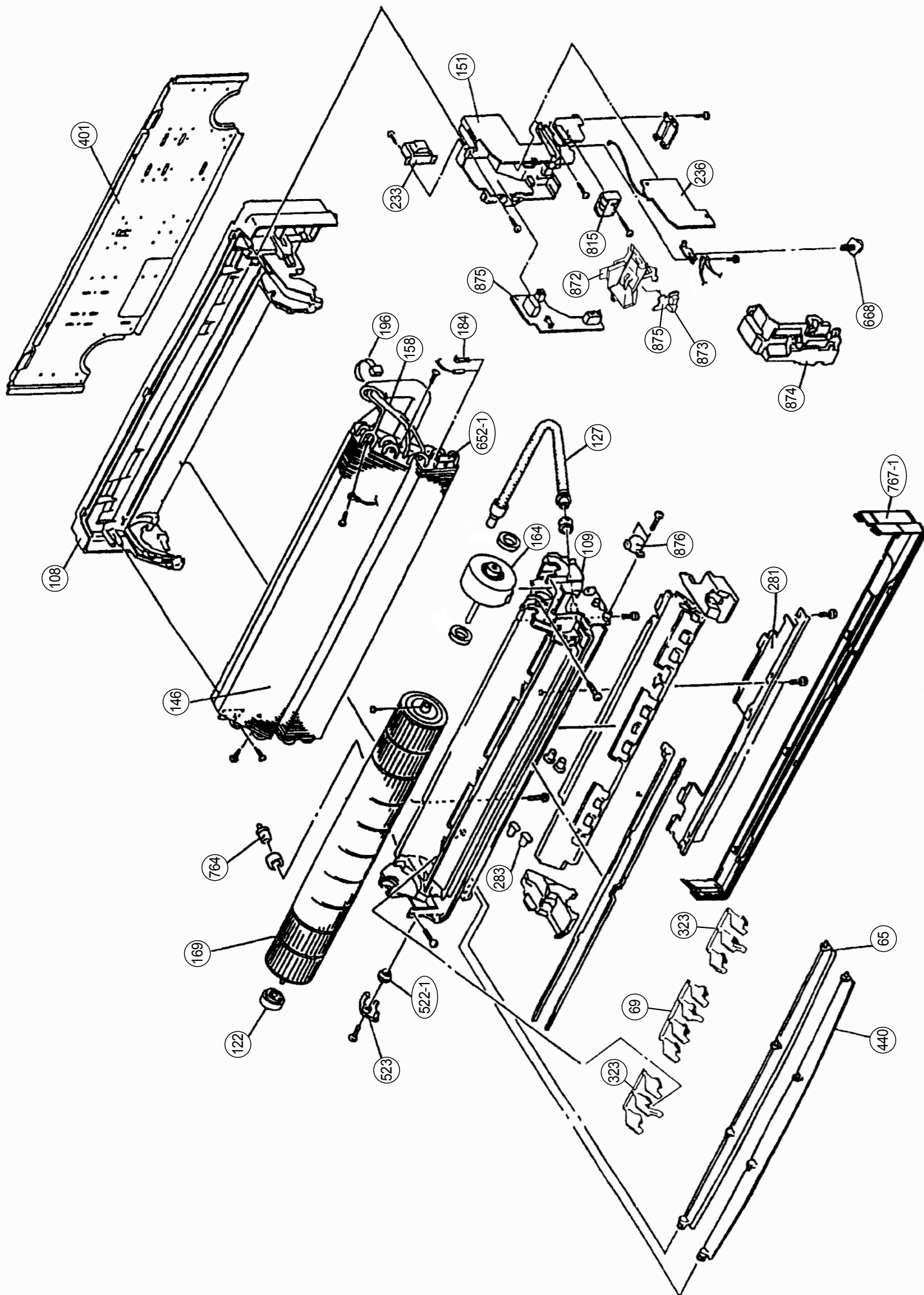
○ : Fast flashing ● : Slow flashing

Error display			Error contents
OPERATION lamp	TIMER lamp	SWING lamp	
○	○	Goes off	Model information abnormal (permanent type)
● 4 times	○	Goes off	Drain abnormal (permanent type)
● 6 times	○	Goes off	Indoor fan abnormal
● 2 times	○	Goes off	Room air temperature thermistor open circuit
		○	Room air temperature thermistor short circuit
● 3 times	○	Goes off	Piping thermistor open circuit
		○	Piping thermistor short circuit

DISASSEMBLY ILLUSTRATION

Model : ASH12FMBD

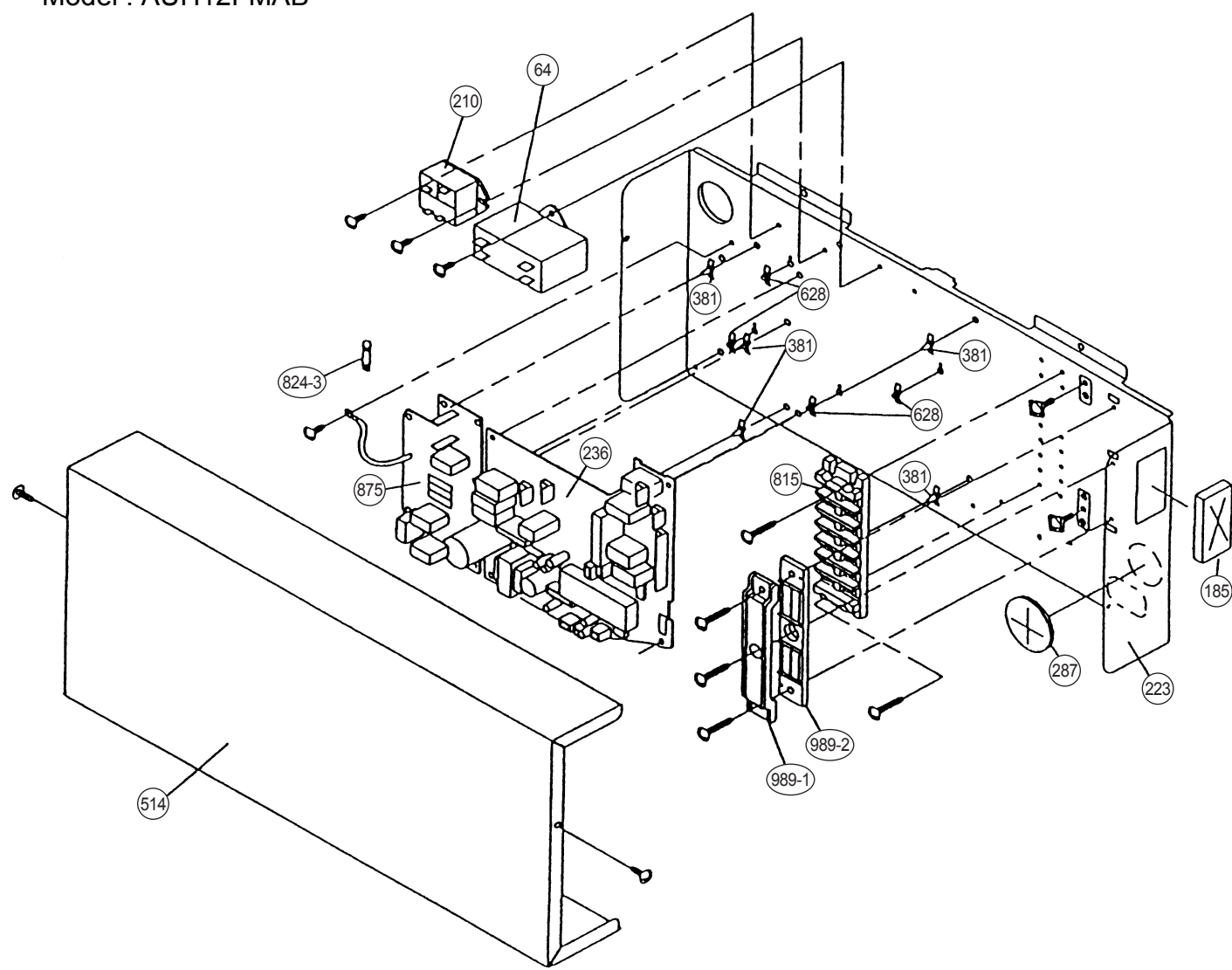


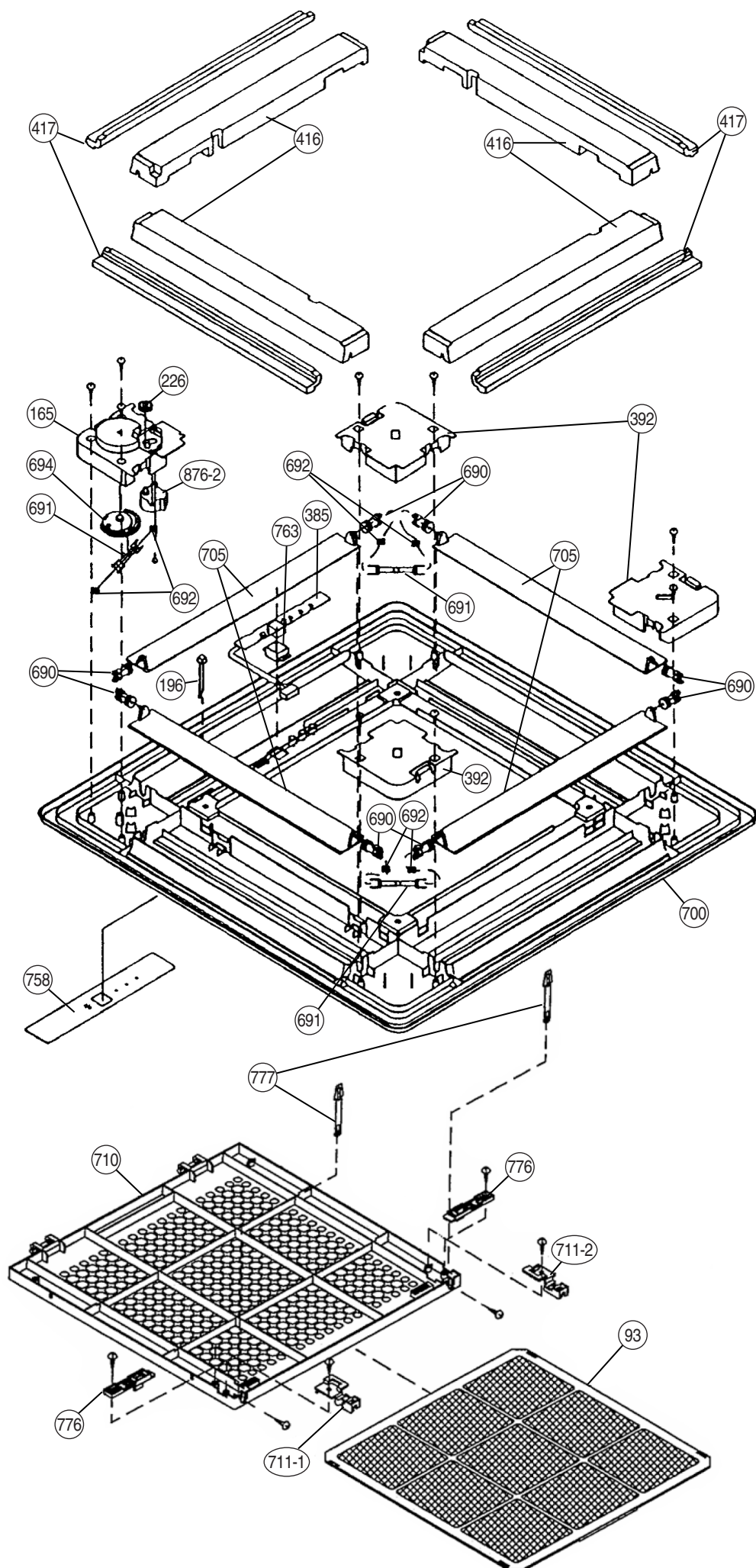


This diagram is an exploded view of a mechanical assembly, likely a camera or a similar optical device. It shows the main body, lens components, and various internal and external parts. The parts are labeled with circled numbers:

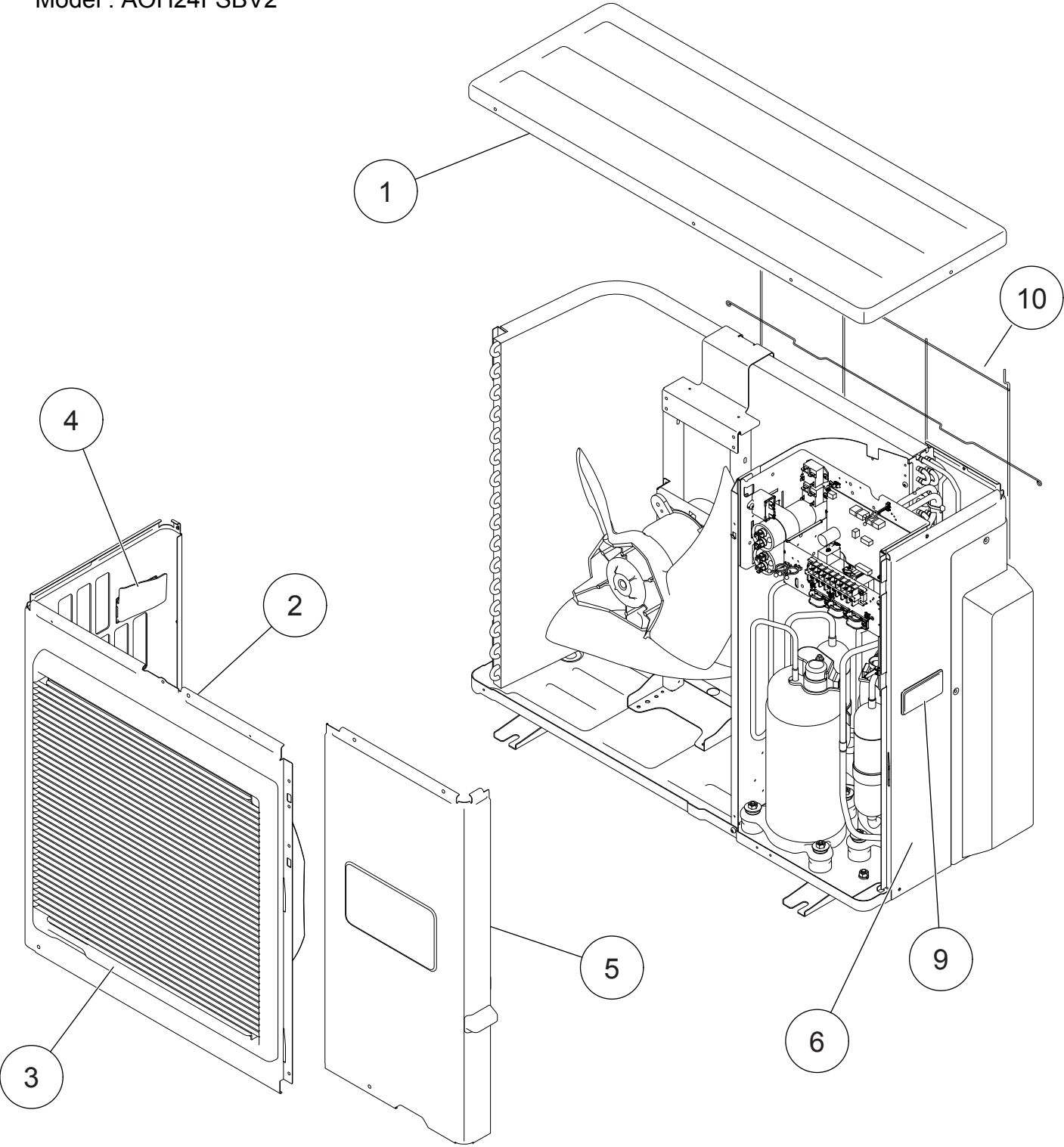
- Top Section:** Includes the main body (484), lens housing (462), and various internal components like the lens element (467) and mounting brackets (244, 465, 495).
- Central Section:** Shows the lens assembly (117-3) and the lens element (67) mounted on a bracket (338).
- Bottom Section:** Includes the lens element (164), the lens housing (411), and the lens element (965).
- Right Section:** Shows the lens element (127) and the lens housing (484).
- Left Section:** Shows the lens element (797) and the lens housing (479).
- Bottom Left:** Shows the lens element (743) and the lens housing (240).
- Bottom Right:** Shows the lens element (469) and the lens housing (468).
- Other Components:** Includes various mounting brackets (478, 479, 470, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000).

Model : AUH12FMAB

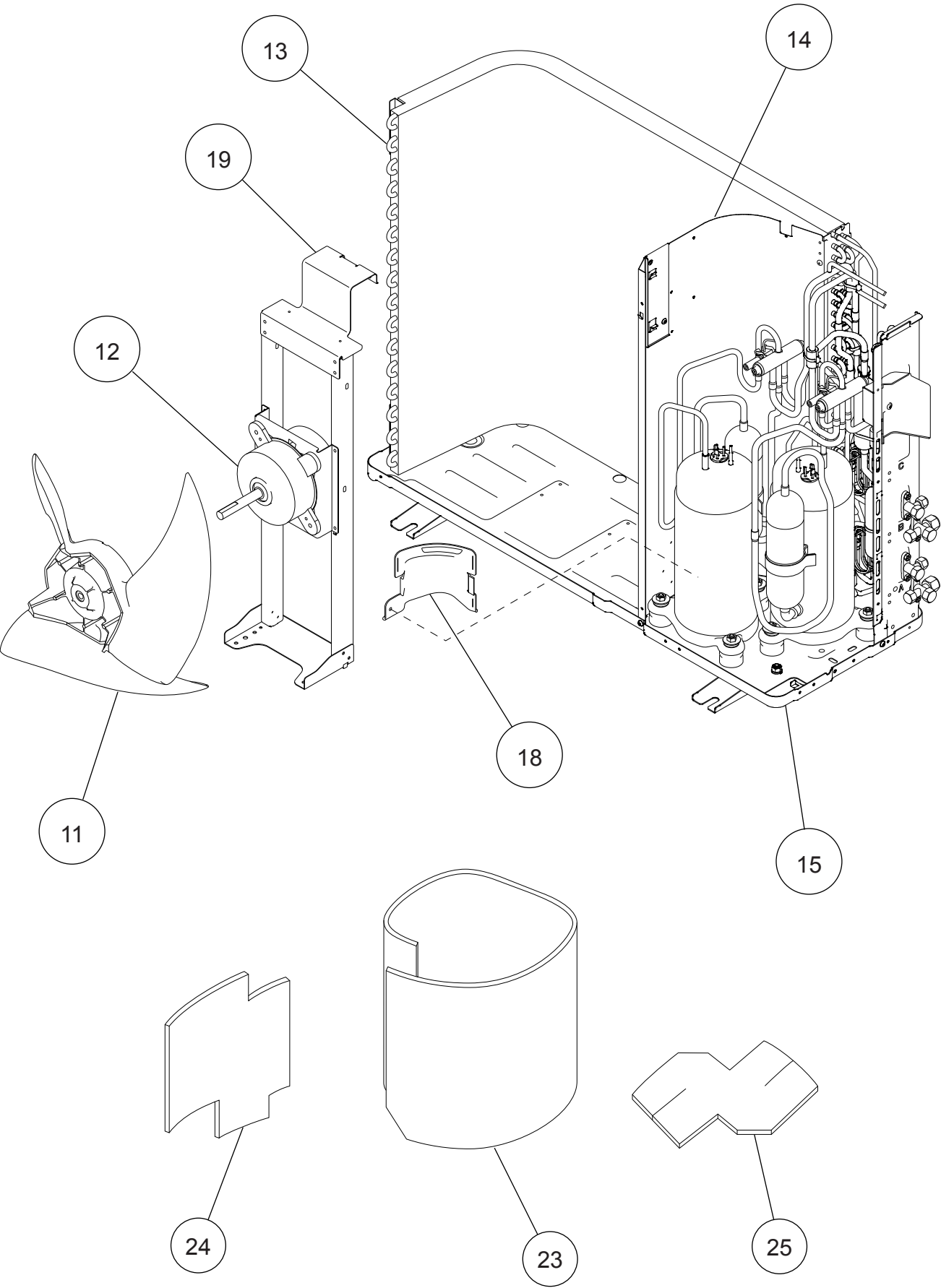


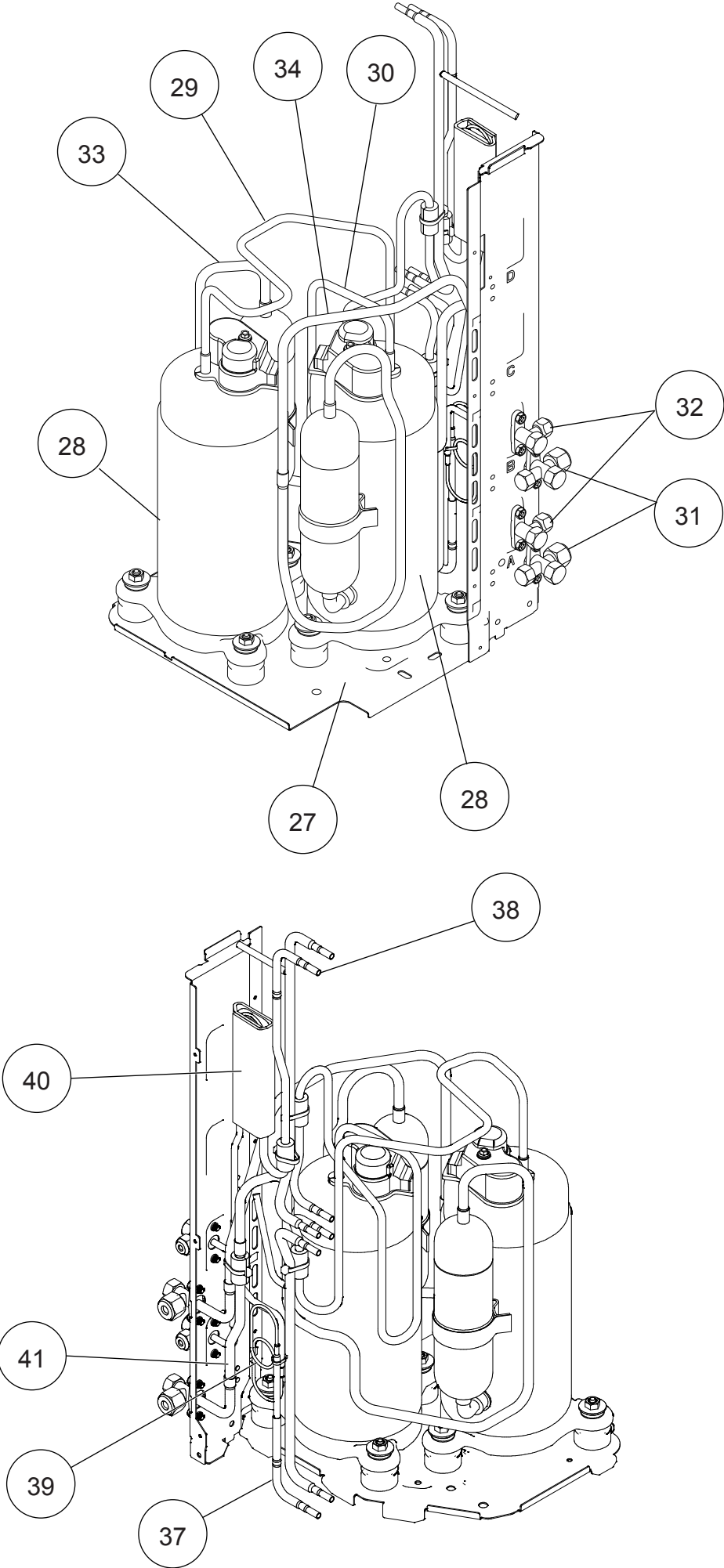


Model : AOH24FSBV2

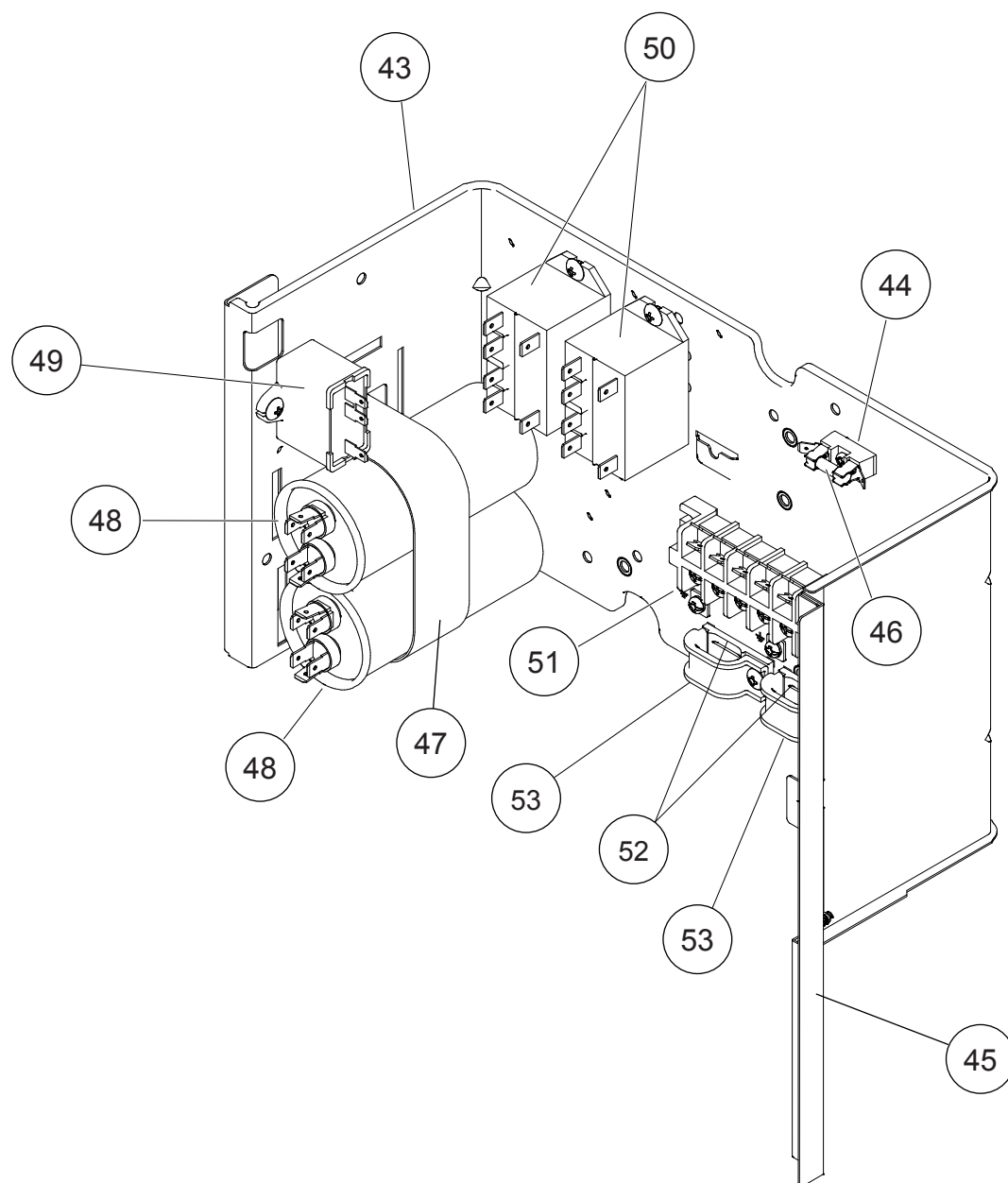


Model : AOH24FSBV2

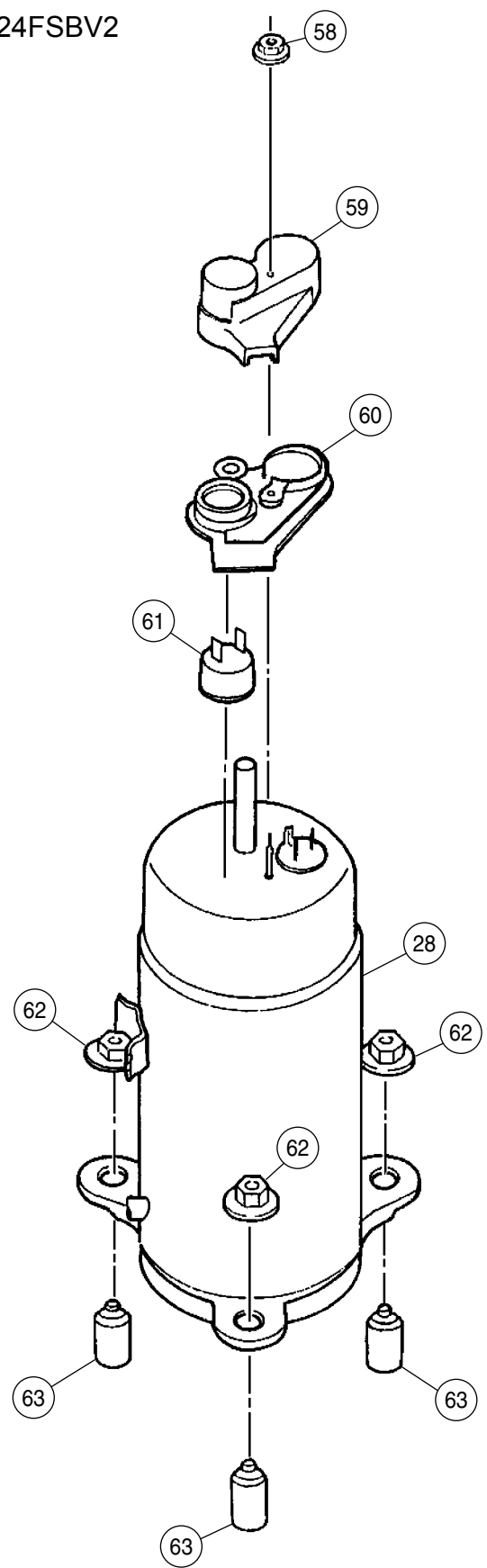




Model : AOH24FSBV2



Model : AOH24FSBV2



PARTS LIST

INDOOR UNIT (Wall Mounted type)

Ref. No.	Description	Part No.	Ord. Q'ty
		ASH12FMBD	
63	Front Panel Assy	9312172085	
65	Flow Control Panel-Z	9306058043	
69	Louver-A	9306055028	
74	Filter	9305444014	
108	Base	9309755062	
109	Casing	9306052027	
122	Shaft Holder-B	9303066010	
127	Drain Hose Assy	9305550029	
146	Evaporator Assy	9373044017	
151	Control Box	9330007017	
158	Connecting Pipe Assy	9306416010	
164	Fan Motor Assy-IN	9601844013	
169	Cross-Flow Fan Assy	9307836015	
184	Thermistor Spring	313728262708	
196	Clamp SKB-150	313035356905	
233	Power Transformer	9701803026	
236	Controller PCB Assy (EZ-00206WSE-C)	9704865052	
240	Remote Control Unit	9312058037	
281	BRACKET(PIPE)	9330011014	
283	Bushing-A	9303529010	
323	Louver-B	9306056025	
401	Wall Hook Bracket	9304358008	
440	Flow Control Panel-U	9306057046	
522-1	Gear-A	9306062002	
523	Gear Bracket	9306407001	
652-1	Thermistor Holder Pipe	313714262805	
668	Screw w/Washer	9372808023	
759-1	Intake Grille	9330002012	
764	Drain Cap Assy	9304150008	
767-1	Bottom Cover	9330004016	
777	CLAMPER(GRILL)	9306755010	
815	Terminal	9900040055	
850	Window (Receiver)	9330003019	
872	Indicator Case	9330009011	
873	Lamp Cover	9330014015	
874	Control Box Cover	9330008014	
875	PCB Assy (Power+Indicator)	9704871053	
876	Step Motor	9900139018	

INDOOR UNIT (Cassette type)

Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
		AUH12FMAB				AUH12FMAB	
64	Capacitor (FanMotor)	9900284015		462	Top Cover Plate	9359642015	
67	Rubber (Vibration-proof)	9361279001		464	Body-A	9359643005	
117-3	Special Washer M6	0700132247		465	Body-B	9359645009	
127	Drain Hose	9359659013		467	Drain Port	313005415658	
138	Special Wall-A	9359647003		468	Special Nut-A (Large)	313005446653	
146	Evaporator Assy	9373214014		469	Special Nut-B (Small)	313005446759	
160	Drain Pan	9359651000		470	Separate Wall-B	9359648000	
164	Fan Motor Assy-In	9601040019		474	Turbo Fan	9359658009	
184-1	Thermo. Spring-A	313728262708		475	Cushion(Turbo Fan)	9366013006	
185	Rubber Bushing	313005066051		476-1	Special Nut M8	0700005534	
187	Clamp No. 1219	313361271706		476-2	Special Washer	0700132223	
196	Clamp SKB-150	313035356905		476-3	Special Washer	9359954002	
210	Main Relay	9900264017		478	Sensor M. Bracket	9359654001	
223	Control Box	9359661016		479	Float Switch	9900361013	
234	Thermistor Assy-Room	9703299032		482	Pump Unit	9900360016	
235	Thermistor Assy-Pipe	9703297014		484	Hanger Metal	9359644002	
236	Control PCB Assy (K01AL-040FWSE-C1)	9704557841		488	Drain Pan Plug	9359653004	
240	Remocon Assy	9371190044		495	Clamp No. 2U46	9352715006	
244	Pipe Cover	9359646006		514	Control Box Cover	9359662006	
287	Cap (Power)	9352173011		628	Locking Spacer-B	313005446558	
301	Clamp NK-2N	313985355201		652-1	Thermistor Holder Pipe	313806262805	
313	Hooking Wire	9359983002		743	Remocon Holder	9305642014	
338	Motor Fixture	9359656005		797	Separate Wall-C	9359649007	
381	Locking Spacer	313209391506		798	Pump Hook Bracket	9359650003	
395	Eva Holder	9373179016		815	Terminal-3P	9900203016	
399	Air Duct	9359660002		824-3	Fuse	0600222512	
411	Supporter-A	9359655008		834	Wire Cover	9359878001	
430	Clamp NK-7N	313095365602		835	Cushion-A (For Pump)	9352211003	
457	Drain Pan Support	9359652007		836	Cushion-B (For Pump)	9356084016	
				875	Filter PCB Assy	9704561169	
				965	Flare Nut-B	9351062019	
				989-1	Cord Clamp-A	9359822011	
				989-2	Cord Clamp-B	9359823018	
				990	Distributor Assy	9373034049	

GRILLE ASSY (UTG-UDGD-W)

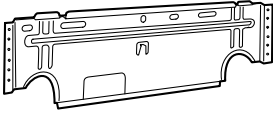
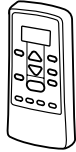
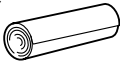
Ref. No.	Description	Part No.	Ord. Q'ty	Ref. No.	Description	Part No.	Ord. Q'ty
93	Filter	9359632009		694	Cam Gear	9359628002	
165	Motor Cover	9359623014		700	Panel	9359619017	
196	Clamp SKB-150	313035356905		705	Louver	9359624011	
226	Motor Gear	9359629009		710	Intake Grille	9370126006	
385	Indicator PCB Assy	9702224011		711-1	Filter Clamp-A	9359634003	
392	Cover-A	9359622017		711-2	Filter Clamp-B	9359635000	
416	Insulation (Panel)-A	9359620006		758	Decoration Plate-A	9360039026	
417	Insulation (Panel)-B	9359621003		763	Receiver Cover	9359630005	
690	Joint-A	9359626008		776	Grille Stopper	9359633013	
691	Joint-B	9359627005		777	Grille Hook	9359761006	
692	Joint Shaft	9359625001		876-2	Step Motor	9900362027	

OUTDOOR UNIT

Ref. No.	Description	Part No.	Ord. Q'ty
		AOH24FSBV2	
1	TOP PANEL SUB ASSY	9374417018	
2	FRONT PANEL S	9374094080	
3	FAN GUARD	9374330010	
4	GRIP SIDE	9374173013	
5	SERVICE PANEL SUB ASSY	9374415045	
6	RIGHT PANEL	9374599042	
9	GRIP	9374172016	
10	PRT NET S	9374255047	
11	PROPELLER FAN ASSY	9366378013	
12	MOTOR, INDUCTION	9601671060	
13	CONDENSER A ASSY	9374433100	
14	SEPARATE WALL S	9374135042	
15	BASE ASSY	9374166121	
18	CAP FOOT	9374345014	
19	MOTOR BRACKET SUB ASSY	9374418084	
23	COMPRESSOR COVER A	9375323028	
24	COMPRESSOR COVER B	9374431076	
25	COMPRESSOR COVER C	9372067055	
27	COMPRESSOR PLATE ASSY	9375221027	
28	COMPRESSOR ASSY	9373010036	
29	DISCHARGE PIPE A1	9372179444	
30	DISCHARGE PIPE B1	9372180365	
31	3-WAY VALVE ASSY	9375103019	
32	2-WAY VALVE ASSY	9375102012	
33	SUCTION PIPE A1	9372176375	
34	SUCTION PIPE B AS	9370771046	
37	CONDENSING PIPE A1	9372232088	
38	CONDENSING PIPE B1	9372231111	
39	CAPILLARY A ASSY	9375297053	
40	CAPILLARY B ASSY	9375298074	
41	JOINT PIPE (VALVE)A1	9372178164	
43	CONTROL BOX A	9375216016	
44	FUSE HOLDER	0501456016	
45	CONTROL BOX D	9375219017	
46	FUSE	0600376086	
47	BAND (CAPACITOR)	9352123009	
48	CAPACITOR, PLASTIC (COMP.)	9900269036	
49	CAPACITOR, PLASTIC (FAN)	9900270049	
50	RELAY	9900239015	
51	TERMINAL	9900203047	
52	CLAMP (CORD) C	9359677000	
53	CLAMP (CORD)	9356857009	
58	SPECIAL NUT M5	313199233602	
59	TERMINAL COVER (COMP)	9351120009	
60	TERMINAL GASKET (COMP)	9351121006	
61	OCR ASSY	9312899005	
62	SPECIAL NUT	9355091008	
63	RUBBER SEAT (FOR COMP)A	9351813017	
---	EMBLEM REAR	9372171011	

STANDARD ACCESSORIES

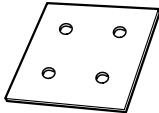
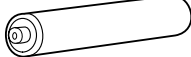
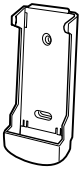
INDOOR UNIT (ASH12FMBD)

Name and Shape	Q'ty	Part No.
Wall hook bracket 	1	9304358008
Remote control unit 	1	9312058037 (AR-JE06)
Battery (penlight) 	1 set	0600185534
Remote control unit holder case 	1	9312653010
Cloth tape 	1	9310519004
Tapping screw (big) ($\phi 4 \times 25$) 	8	0700076046
Tapping screw (small) ($\phi 3 \times 12$) 	2	0700019036

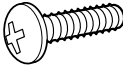
OUTDOOR UNIT

Name and Shape	Q'ty	Part No.
Putty 	1	303020200114

INDOOR UNIT (AUH12FMAB)

Name and Shape	Q'ty	Part No.
Coupler heat insulation 	1	9350716029
	1	9352766015
Special nut A (large flange) 	4	313005446653
Special nut B (small flange) 	4	313005446759
Template 	1	9360256003
Remote control unit 	1	9371190044 (AR-JW4)
Battery (penlight) 	1 set	0600185534
Remote control unit holder case 	1	9305642014
Tapping screw ($\phi 3 \times 12$) 	3	0700019098

GRILLE ASSY

Name and Shape	Q'ty	Part No.
screw ($\phi 5 \times 24$) 	4	0700139116
Washer 	4	301801155020
Blower cover insulation 	2	9360047007

