





**SPLIT TYPE  
ROOM AIR CONDITIONER  
WALL MOUNTED type**

**SERVICE  
MANUAL**

**Models**

<b>Indoor unit</b>	<b>Outdoor unit</b>
MW18C3F	MR18C3F

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# SPECIFICATIONS

<b>TYPE</b>	COOLING ONLY INVERTER
<b>INDOOR UNIT</b>	MW18C3F
<b>OUTDOOR UNIT</b>	MR18C3F
<b>COOLING CAPACITY</b>	18,000 Btu/h (5.28 kW)

## ELECTRICAL DATA

<b>POWER SOURCE</b>	208 - 230 V
<b>FREQUENCY</b>	60 Hz
<b>RUNNING CURRENT</b>	7.7 A
<b>INPUT WATTS</b>	1.73 kW
<b>E.E.R.</b>	3.05 kW /kW
<b>MOISTURE REMOVAL</b>	5.9 Pt/h (2.8 L/hr)
<b>AIR CIRCULATION -High</b>	412 cfm (700 m3/hr)

## COMPRESSOR

<b>TYPE</b>	Hermetic type, 4 pole, 3 phase, DC inverter motor, Rotary
<b>DISCRIMINATION</b>	DA130A1F-25F
<b>REFRIGERANT</b> R410A	2-9/16 lbs. (1,150 g)

## FAN MOTOR

<b>POWER SOURCE</b>	208 - 230 V	
<b>INDOOR UNIT</b>	HIGH-SPEED	1,480 r.p.m.
	MED-SPEED	1,260 r.p.m.
	LOW-SPEED	1,040 r.p.m.
	QUIET	850 r.p.m.
<b>OUTDOOR UNIT</b>	860 r.p.m.	

## DIMENSIONS

<b>INDOOR UNIT</b> H x W x D	10-13/16 x 31-1/8 x 8-7/16 inch
	275 x 790 x 215 mm
<b>OUTDOOR UNIT</b> H x W x D	22-3/4 x 31-1/8 x 11-13/16 inch
	578 x 790 x 300 mm

## WEIGHT

<b>INDOOR UNIT</b> Gross / Net	26 lbs. / 20 lbs. (12 kg / 9 kg)
<b>OUTDOOR UNIT</b> Gross / Net	97 lbs. / 88 lbs. (44 kg / 40 kg)

## NOISE LEVEL

<b>INDOOR UNIT</b>	HIGH	44 dB
	MED	38 dB
	LOW	32 dB
	QUIET	25 dB
<b>OUTDOOR UNIT</b>	50 dB	

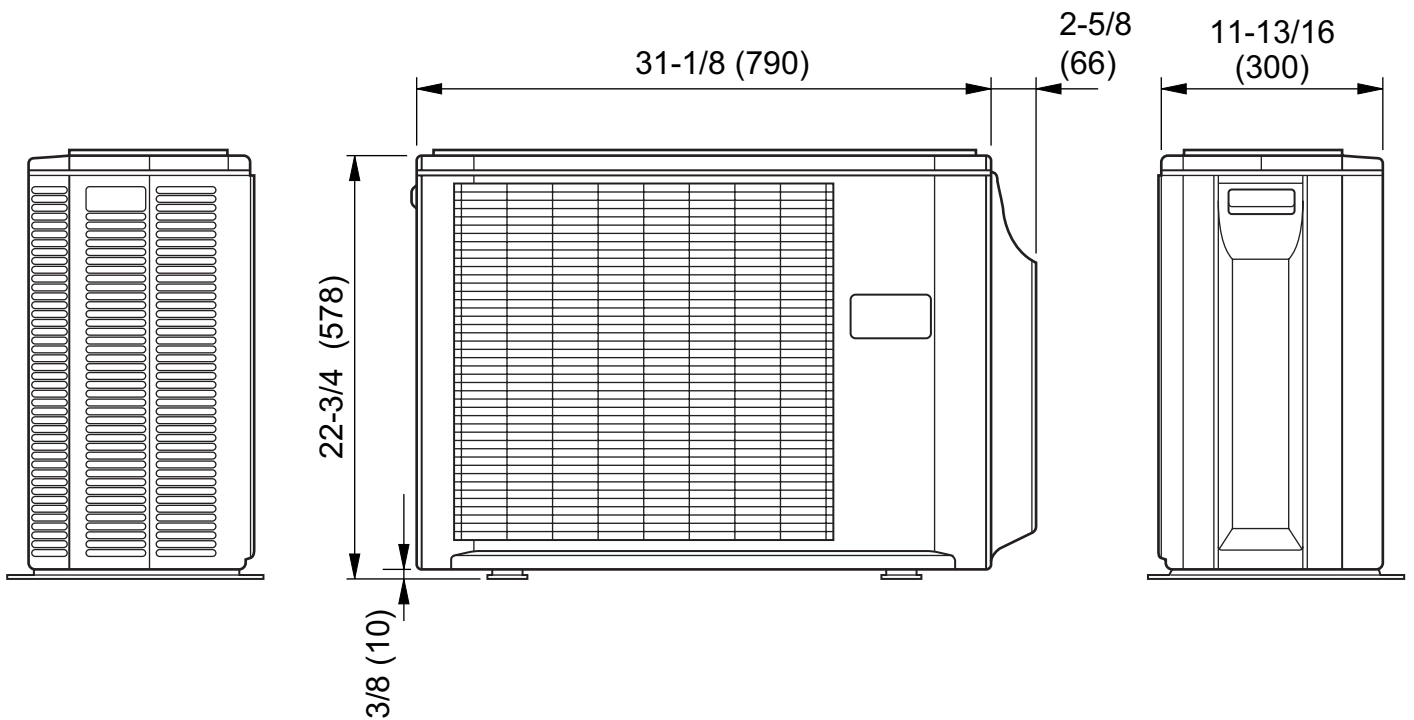
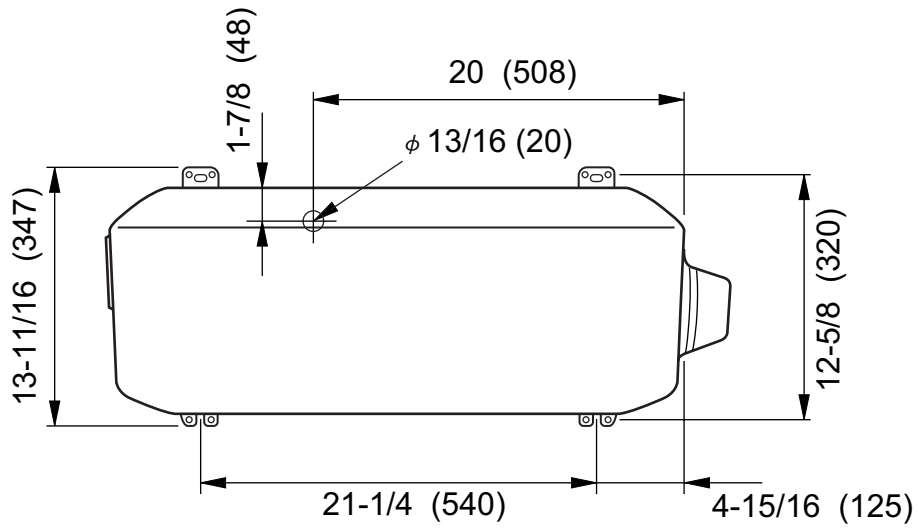
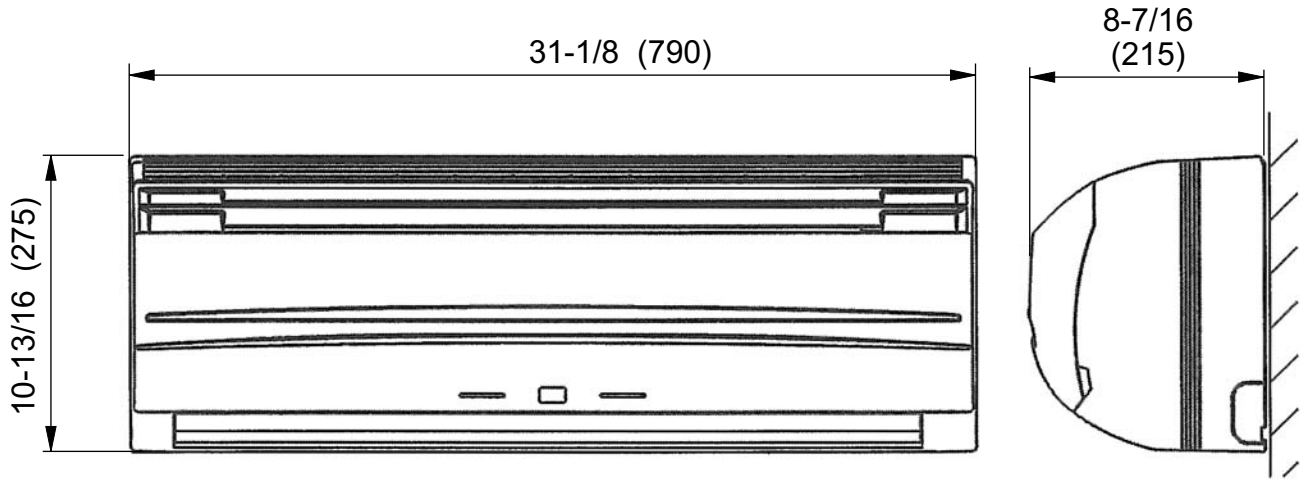
## REFRIGERANT (R410A)

Pipe Length	49 ft. (15 m)	2-9/16 lbs. (1,150 g)
<b>FULL CHARGE</b>	66 ft. (20 m)	2-3/4 lbs. (1,250 g)
<b>ADDITIONAL REFRIGERANT</b>		3/16 oz./ft. (20 g/m)

# DIMENSIONS

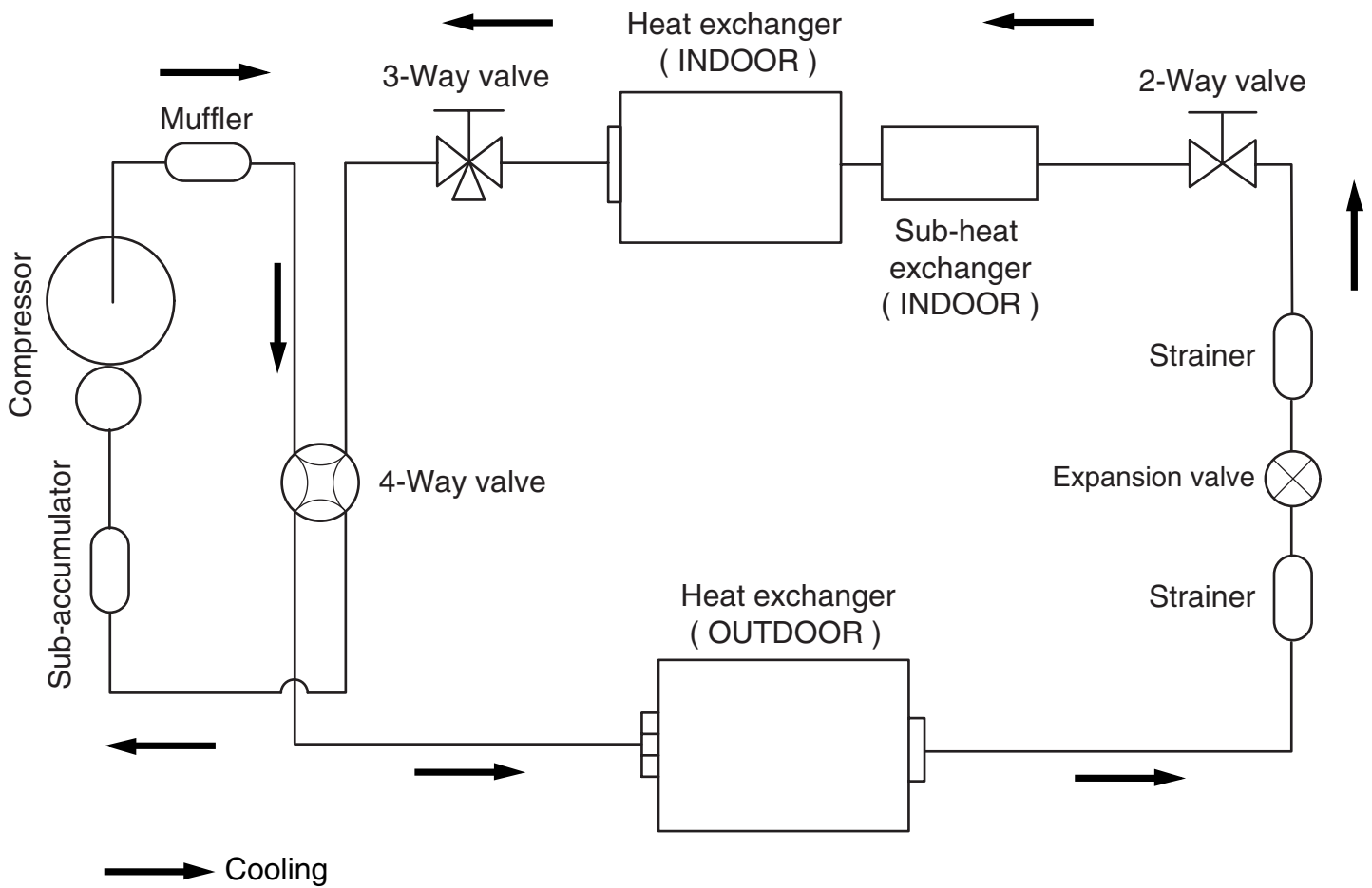
Models : MW18C3F / MR18C3F

unit : inch (mm)



# REFRIGERANT SYSTEM DIAGRAM

Model : MW18C3F / MR18C3F



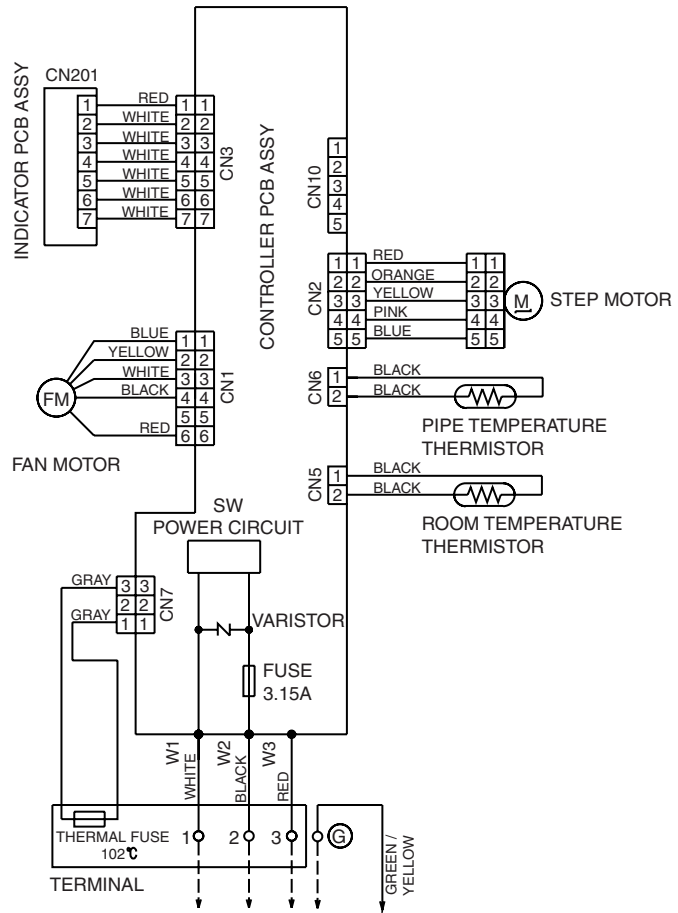
Refrigerant pipe diameter  
 Liquid : 1/4" (6.35 mm)  
 Gas : 1/2" (12.7 mm)

# CIRCUIT DIAGRAM

Model :  
MW18C3F / MR18C3F

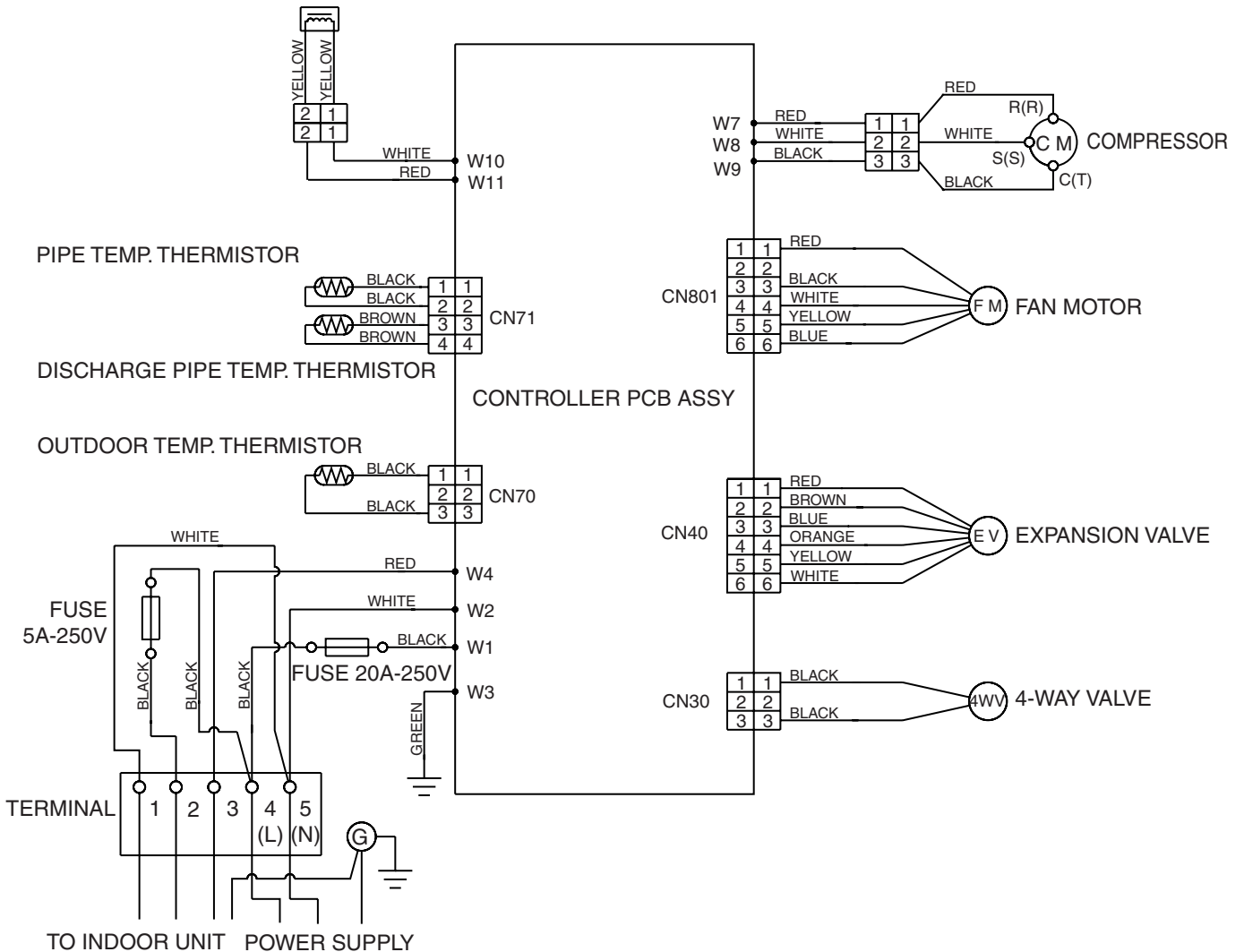
INDOOR UNIT

OUTDOOR UNIT



REACTOR

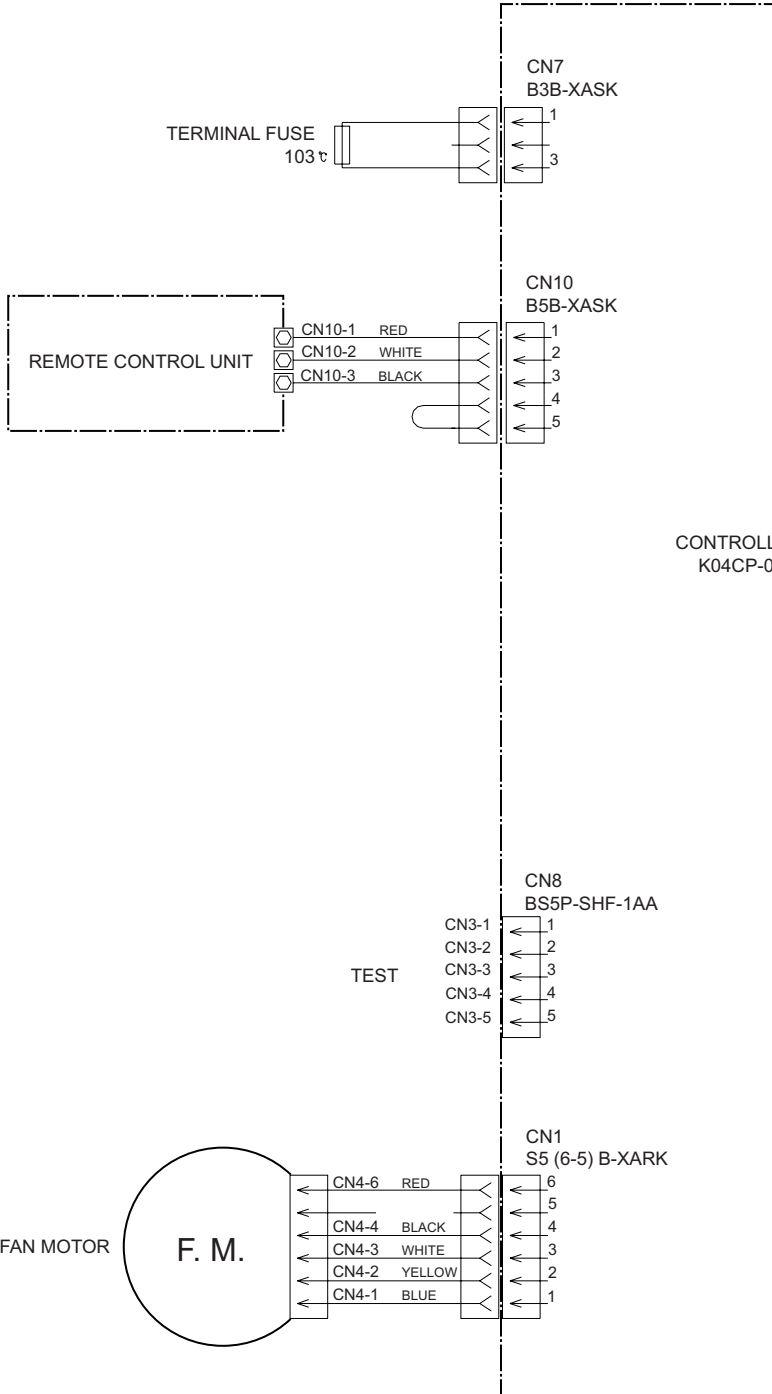
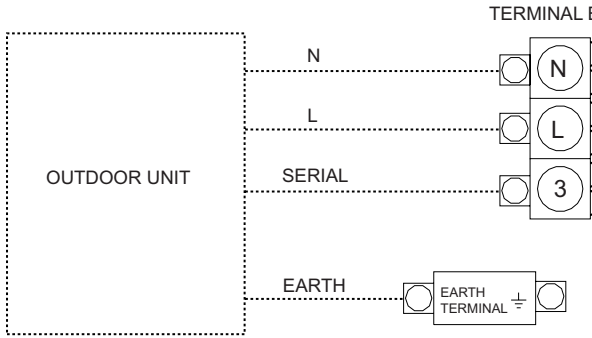
TO OUTDOOR UNIT



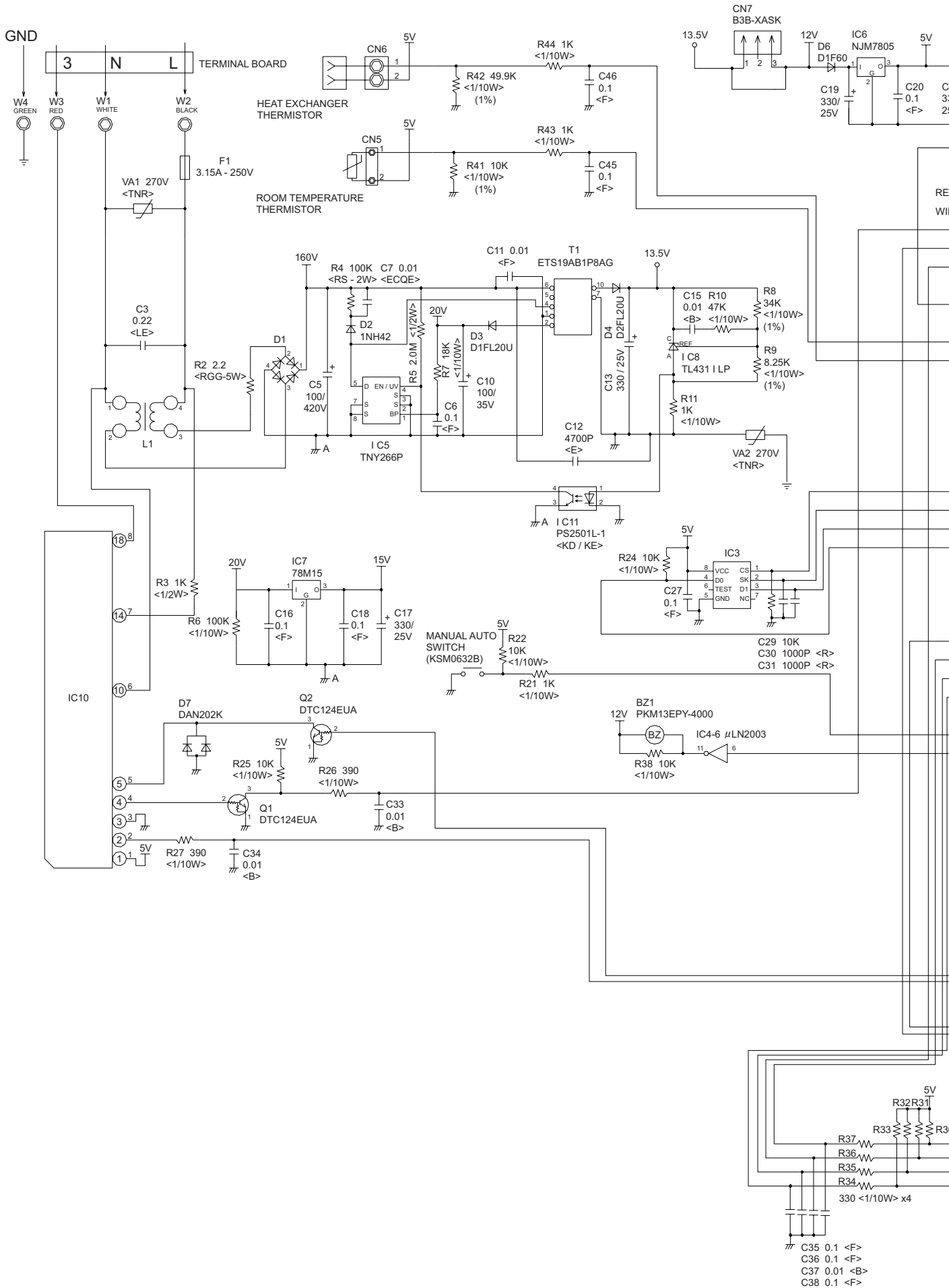
# INDOOR PCB CIRCUIT DIAGRAM

Model : MW18C3F

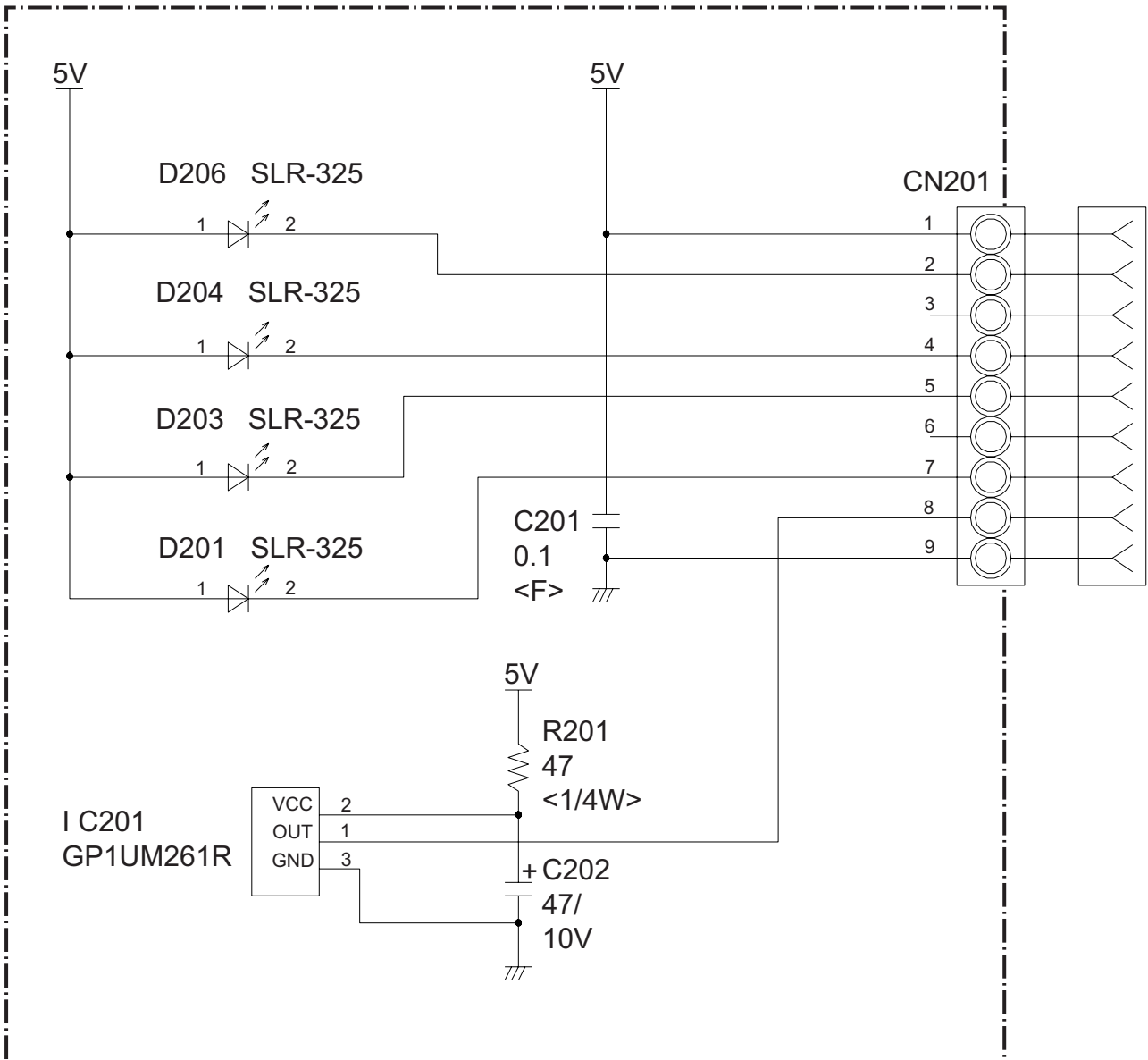
CONTROL  
EZ-005EV



CONTROL  
K04CP-0



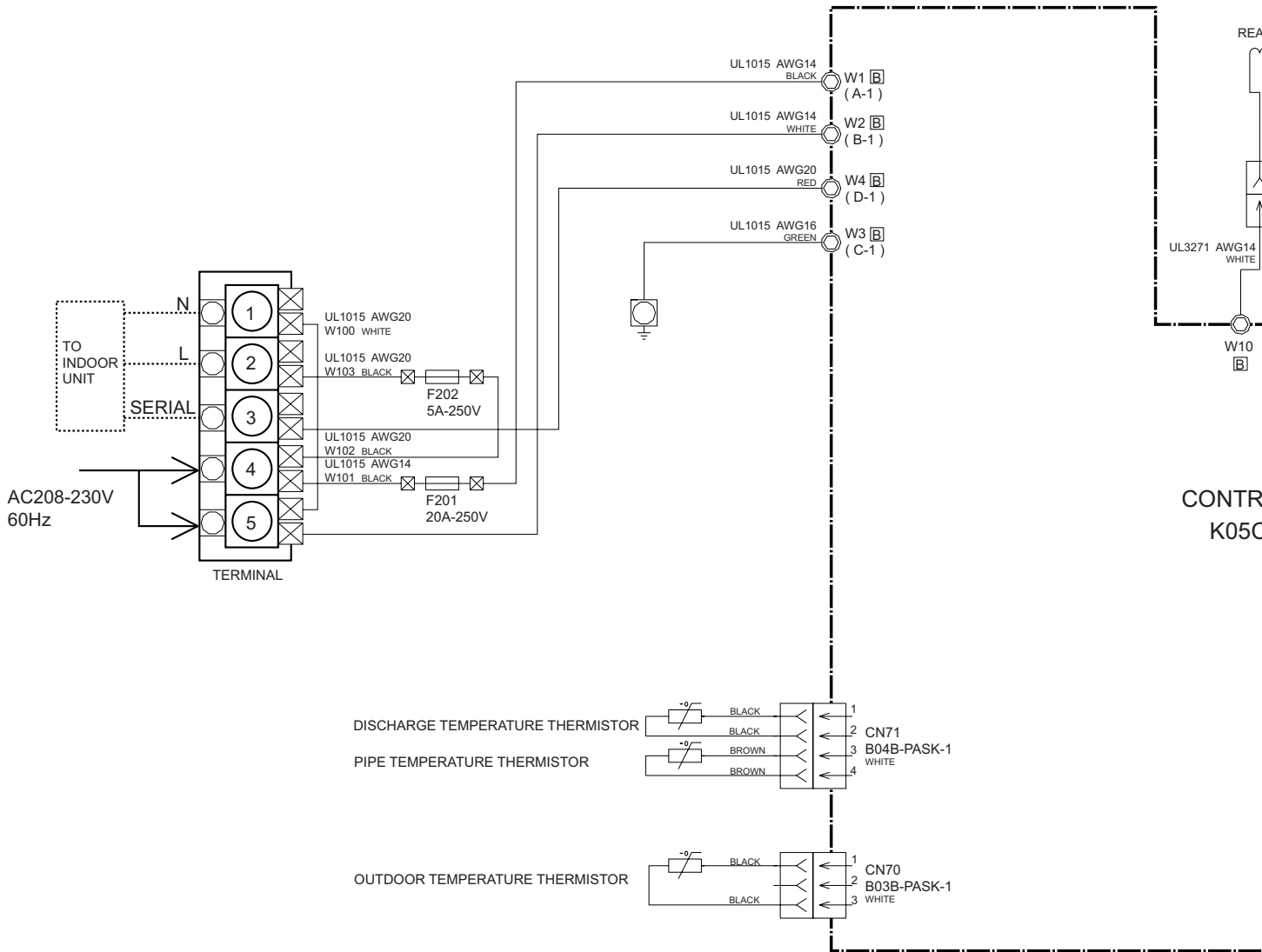
Model : MW18C3F

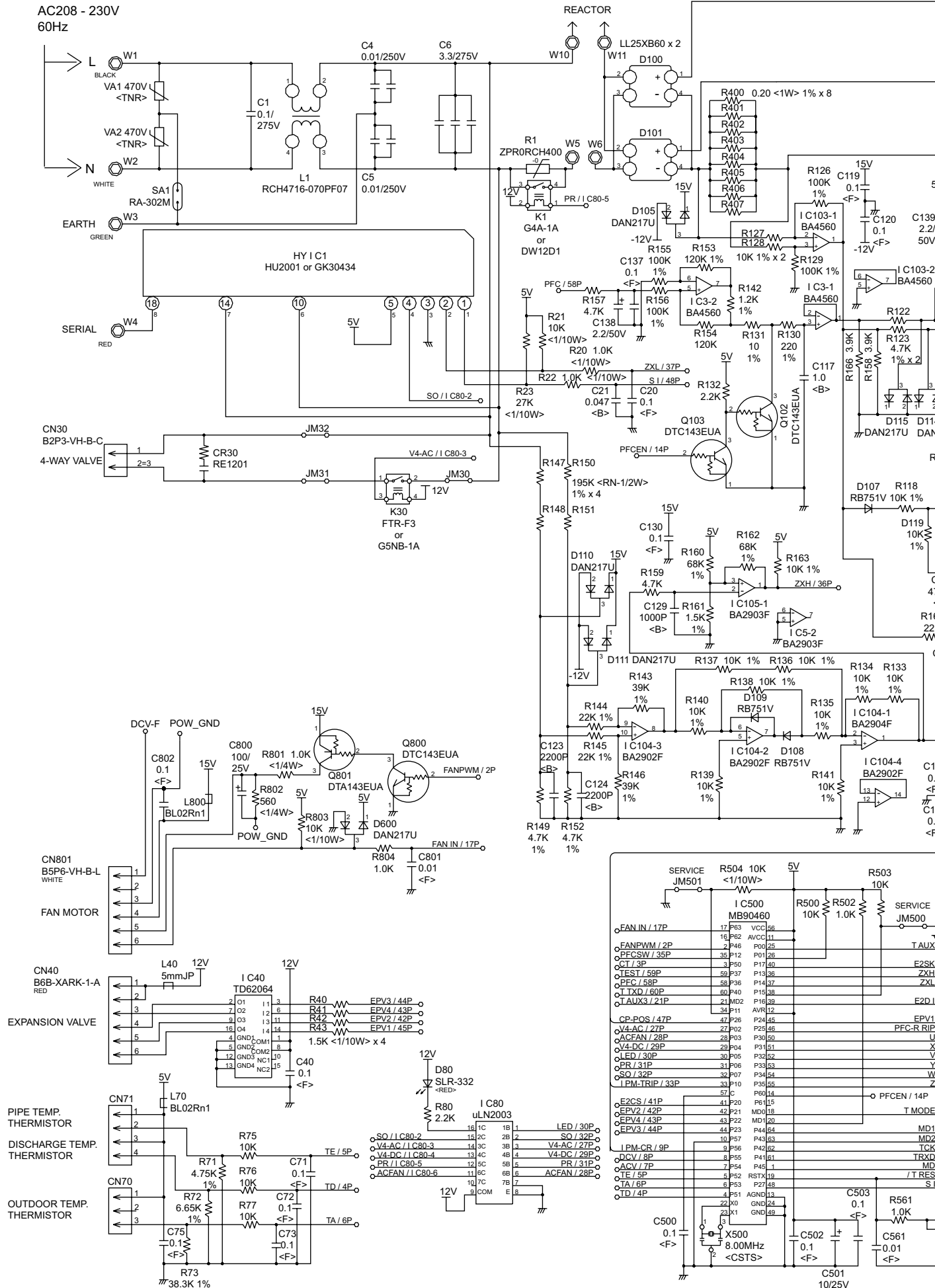


# OUTDOOR PCB CIRCUIT DIAGRAM

Model : MR18C3F

INVERTER  
EZ-0





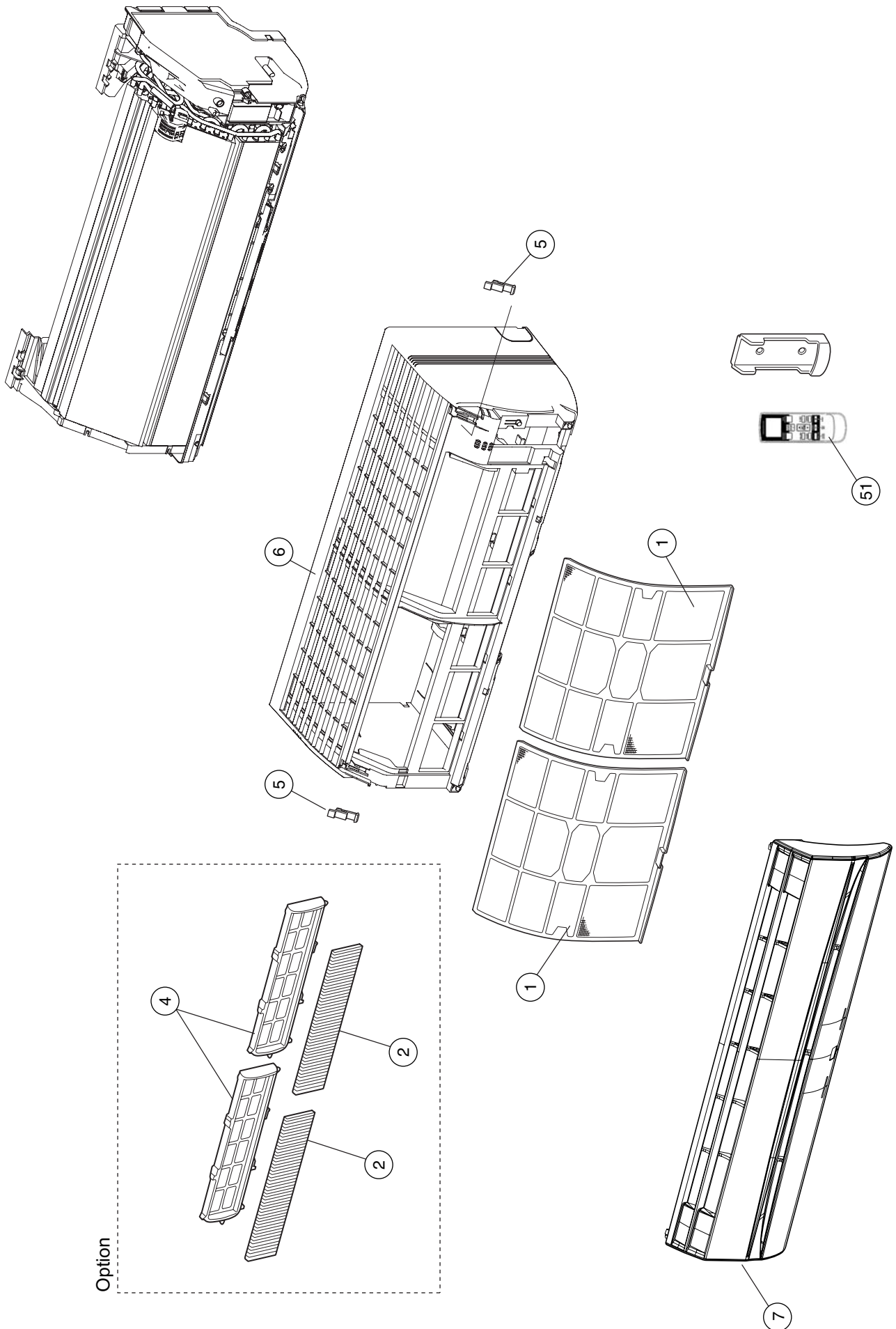
# ERROR CONTENTS

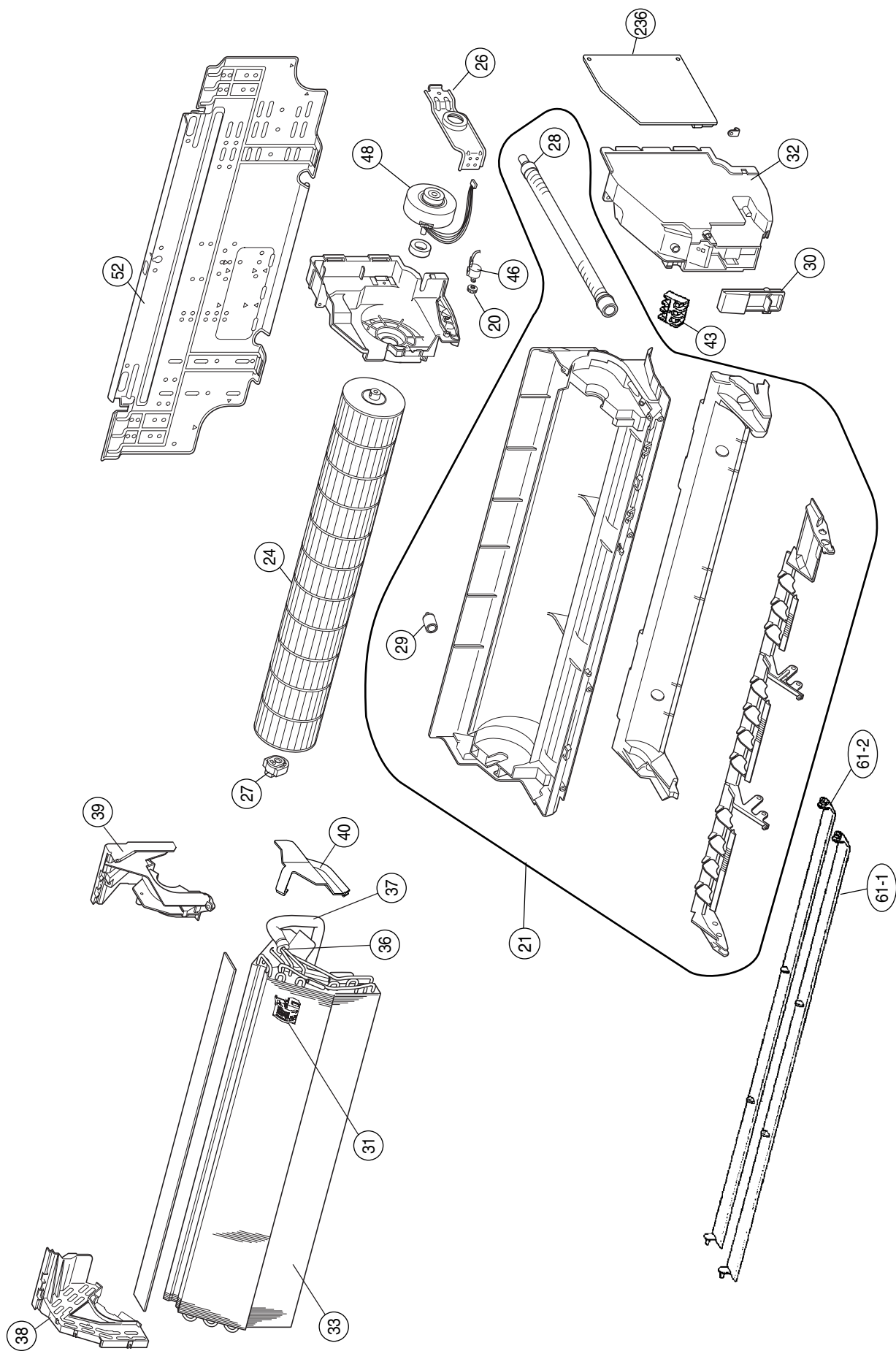
Model : MW18C3F

Error	Display		Error
	Operation LED	Timer LED	
Serial signal error	Normal	2 flash	Serial signal (reverse) error, at operation start up
		3 flash	Serial signal (reverse) error, during operation
		4 flash	Serial signal (forward) error, at operation start up
		5 flash	Serial signal (forward) error, during operation
Indoor unit thermistor error	2 flash	2 flash	Indoor temperature thermistor open / short
		3 flash	Heat exchanger middle thermistor open / short
Outdoor unit thermistor error	3 flash	2 flash	Discharge thermistor open / short
		3 flash	Heat exchanger thermistor open
		4 flash	Outdoor temperature thermistor open / short
Indoor unit control error	4 flash	2 flash	Forced automatic SW welded
		3 flash	Main relay welded
		4 flash	Power interruption error
		7 flash	VDD permanent stop protection
		8 flash	reverse VDD permanent stop protection
Outdoor unit control error	5 flash	2 flash	Current trip error
		3 flash	CT abnormal
		5 flash	Compressor location detection error
		6 flash	Outdoor unit fan drive system abnormal
Indoor fan motor error	6 flash	2 flash	Abnormal lock
		3 flash	Abnormal rotation
Refrigerant cycle error	7 flash	2 flash	Discharge Temperature abnormal
		3 flash	Cooling high pressure abnormal rise
Optional function error	8 flash	4 flash	PFC circuit error
Model information error	0.1 sec on/off	0.1 sec on/off	Model information error

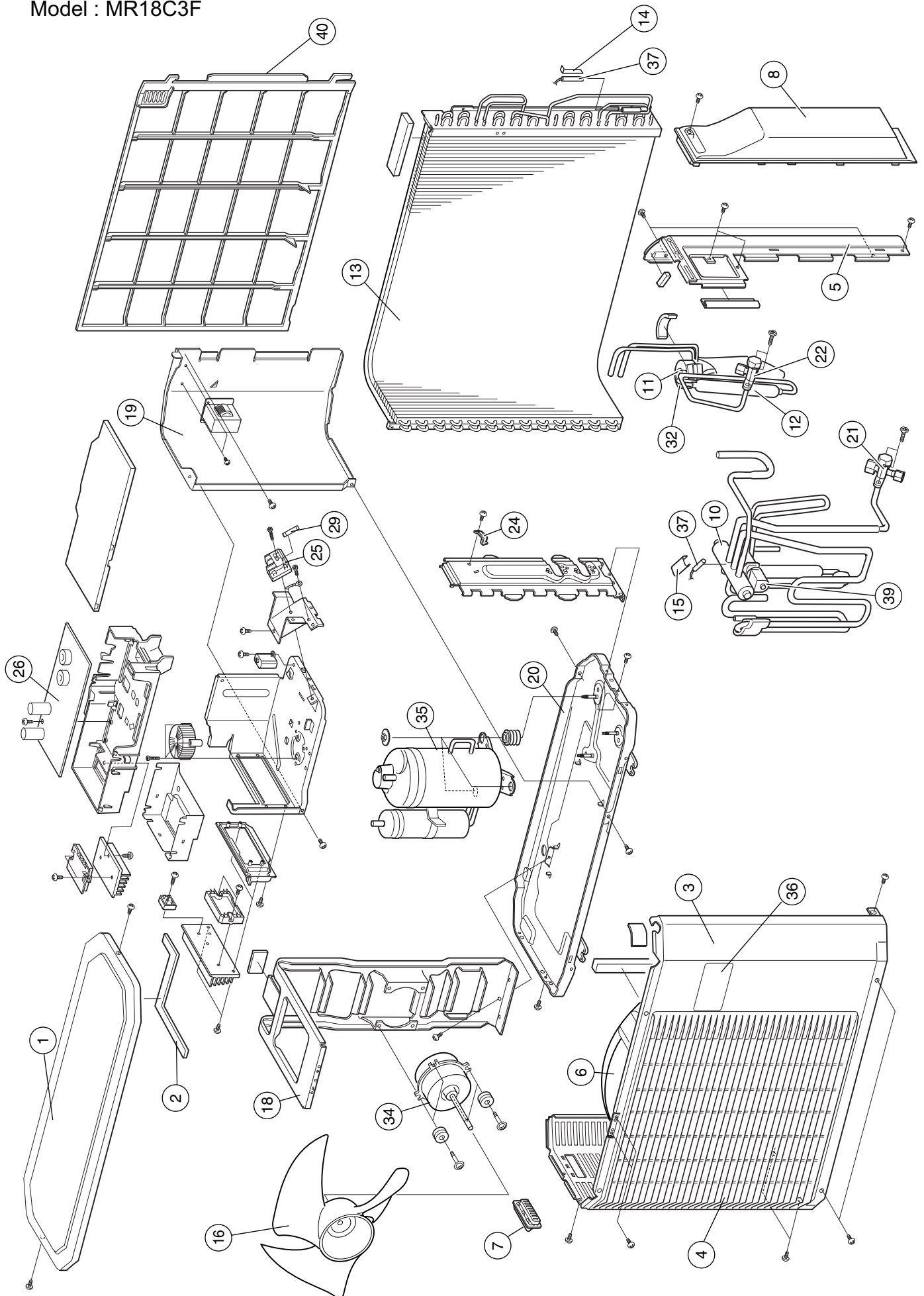
# DISASSEMBLY ILLUSTRATION

Model : MW18C3F





Model : MR18C3F



# PARTS LIST

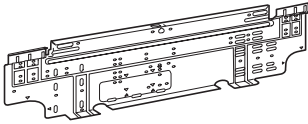

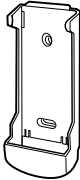

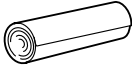
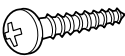

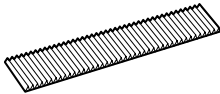
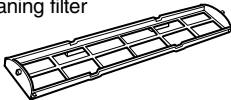

## INDOOR UNIT

Ref. No	Description	Part No.	Ord. Q'ty
		MW18C3F	
1	Air Filter	67201200	
4	Holder (Filter)	67201256	
5	Clamper (Grille)	67201257	
6	Front Panel	67200936	
7	Intake Grille Assy	67201230	
20	Gear-A	67201202	
21	Casing Assy	67201206	
24	Crossflow Fan Assy	67201233	
26	Clamp (Motor)	67201258	
27	Shaft Holder-C Assy	67200922	
28	Drain Hose Assy	67201259	
29	Drain Cap Assy	67201211	
30	Wire Clamper	67201260	
32	Cover (Switch)	67201237	
33	Evaporator Total Assy	67201214	
36	Joint Pipe Assy	67201238	
37	Insulation (Pipe)-E	67201217	
38	Holder (Evaporator)-L Assy	67201239	
39	Holder (Evaporator)-R	67201219	
40	Water Seal	67201220	
42	Air Seal	67201215	
43	Terminal	67201222	
46	Step Motor	67201225	
48	Fan Motor Assy	67201240	
51	Remote Control Unit	67201548	
52	Bracket Panel	67201242	
61-1	Flow Control Panel-U	67201203	
61-2	Flow Control Panel-Z	67201204	
236	Controller PCB Assy	67201261	
		(K04CP-0504WSE-C1)	
---	Pipe Temperature Thermistor	67201245	
---	Room Temperature Thermistor	67201246	
---	Indicator PCB Assy	67201247	
---	Evaporator B Assy	67201255	

OUTDOOR UNIT

Ref. No	Description	Part No.	Ord. Q'ty
		MR18C3F	
1	Top Panel Assy	67201400	
2	Top Panel Seal	67201401	
3	Cabinet Sub Assy	67201402	
4	Blow Down Grille	67201403	
5	Cabinet Right Assy	67201472	
6	Fan Ring	67201405	
7	Grip	67201406	
8	Switch Cover Assy	67201407	
10	4-Way Valve	67201408	
11	Expansion Valve Assy	67201409	
12	Strainer	67201410	
13	Condenser Assy	67201411	
14	Thermistor Spring-A	67206400	
15	Thermistor Spring-A	67201412	
16	Propeller Fan	67201413	
18	Motor Bracket	67201414	
19	Separator	67201415	
20	Base Assy	67201416	
21	3-Way Valve Assy	67201417	
22	2-Way Valve Assy	67201418	
24	Cord Clamp	67201419	
25	Terminal	67201332	
26	Inverter PCB Assy	67201420	
29	Fuse	67201421	
32	Expansion Valve Coil	67201422	
34	Fan Motor	67201423	
35	Compressor Assy	67201424	
36	Emblem Rear	67201473	
37	Heat Exchanger Thermistor		
39	Solenoid Coil	67201427	
---	IPM	67201428	
---	Outdoor Temp. Thermistor	67201429	
---	Thermistor	67201430	
---	Thermistor Assy	67201431	

# STANDARD ACCESSORIES

Name and Shape	Part No.
	MW18C3F
Wall hook bracket 	9310001004
Remote control unit 	9315027061
Remote control unit holder 	9305642045
Battery (penlight) 	0600185534
Cloth tape 	9310519004
Tapping screw (big) (φ 4 x 25) 	0700076046
Tapping screw (small) (φ 3 x 12) 	0700019036
Air cleaning filter 	9312153015
	9311925033
Air cleaning filter frame 	9306602017
Seal A 	9304536000

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