



# FUJ1 ELECTRIC

## SPLIT TYPE ROOM AIR CONDITIONER WALL MOUNTED type

# SERVICE MANUAL

### Models

Indoor unit

Outdoor unit

RSB18LDC

ROS18LDC



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каталоги, инструкции, сервисные мануалы, схемы.

# SPECIFICATIONS

|                  |                      |
|------------------|----------------------|
| TYPE             | COOL & HEAT INVERTER |
| INDOOR UNIT      | RSB18LDC             |
| OUTDOOR UNIT     | ROS18LDC             |
| COOLING CAPACITY | 5.20 kW              |
| HEATING CAPACITY | 6.25 kW              |

## ELECTRICAL DATA

|                      |         |            |
|----------------------|---------|------------|
| POWER SOURCE         |         | 230 V      |
| FREQUENCY            |         | 50 Hz      |
| RUNNING CURRENT      | COOLING | 7.6 A      |
|                      | HEATING | 7.7 A      |
| INPUT WATTS          | COOLING | 1.72 kW    |
|                      | HEATING | 1.73 kW    |
| E.E.R.               | COOLING | 3.02 kW/kW |
| COP                  | HEATING | 3.61 kW/kW |
| MOISTURE REMOVAL     |         | 2.8 L/hr   |
| AIR CIRCULATION HIGH |         | 700 m³/hr  |

## COMPRESSOR

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| TYPE              | Hermetic type, 4 pole, 3 phase, DC inverter motor, Rotary |
| DISCRIMINATION    | DA130AIF - 25F                                            |
| REFRIGERANT R410A | 1,150 g                                                   |

## DIMENSIONS

|              |           |                    |
|--------------|-----------|--------------------|
| INDOOR UNIT  | H x W x D | 283 x 790 x 230 mm |
| OUTDOOR UNIT | H x W x D | 578 x 790 x 300 mm |

## WEIGHT

|              |             |                 |
|--------------|-------------|-----------------|
| INDOOR UNIT  | Gross / Net | 12.5 kg / 10 kg |
| OUTDOOR UNIT | Gross / Net | 44 kg / 40 kg   |

## NOISE LEVEL

|                              |       |               |
|------------------------------|-------|---------------|
| INDOOR UNIT<br>(Cool / Heat) | High  | 45 dB / 42 dB |
|                              | Med   | 39 dB / 38 dB |
|                              | Low   | 33 dB / 33 dB |
|                              | Quiet | 26 dB / 27 dB |
| OUTDOOR UNIT (Cool / Heat)   |       | 50 dB / 50 dB |

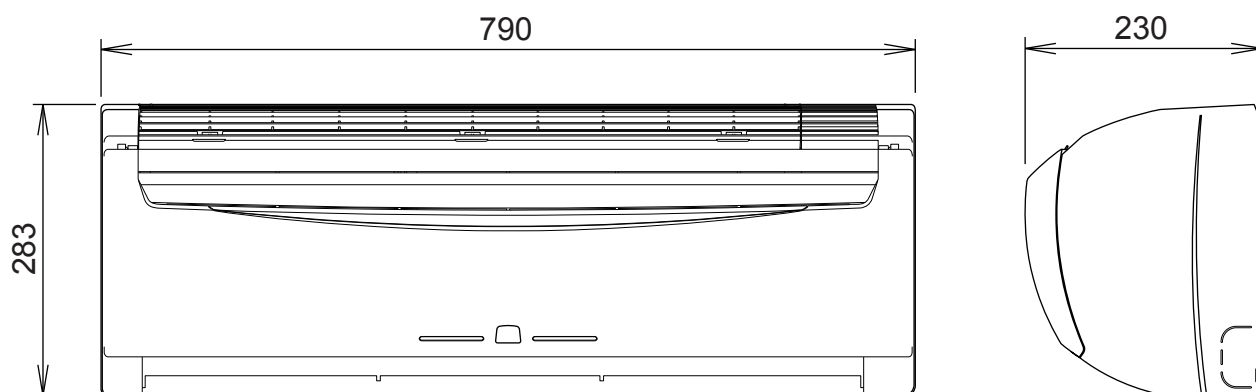
## REFRIGERANT (R410A)

|                        |        |         |
|------------------------|--------|---------|
| Pipe Length            | 15 m   | 1,150 g |
| FULL CHARGE AMOUNT     | 20 m   | 1,250 g |
| ADDITIONAL REFRIGERANT | 20 g/m |         |
| MAXIMUM PIPING HEIGHT  | 15m    |         |

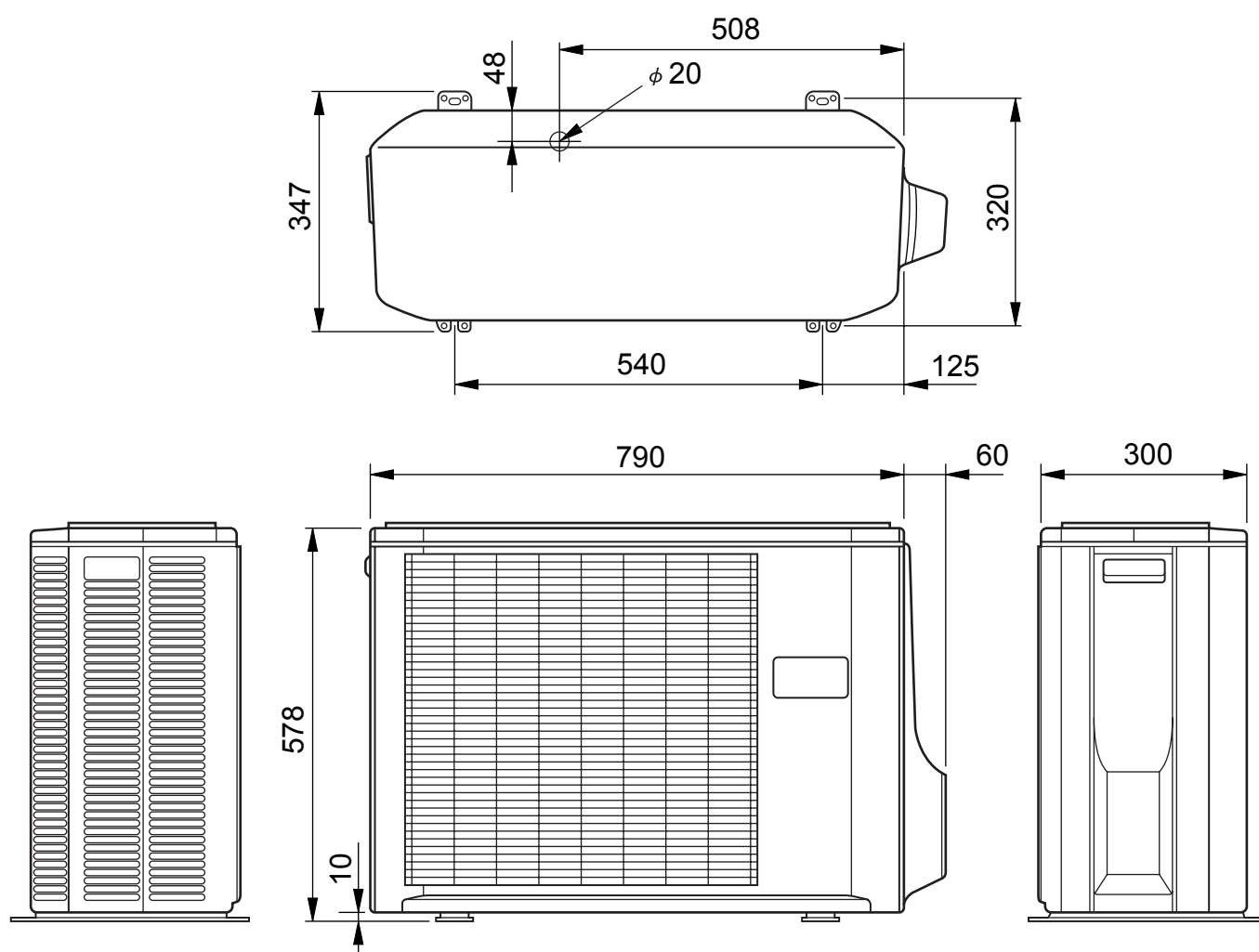
## DIMENSIONS

unit : mm

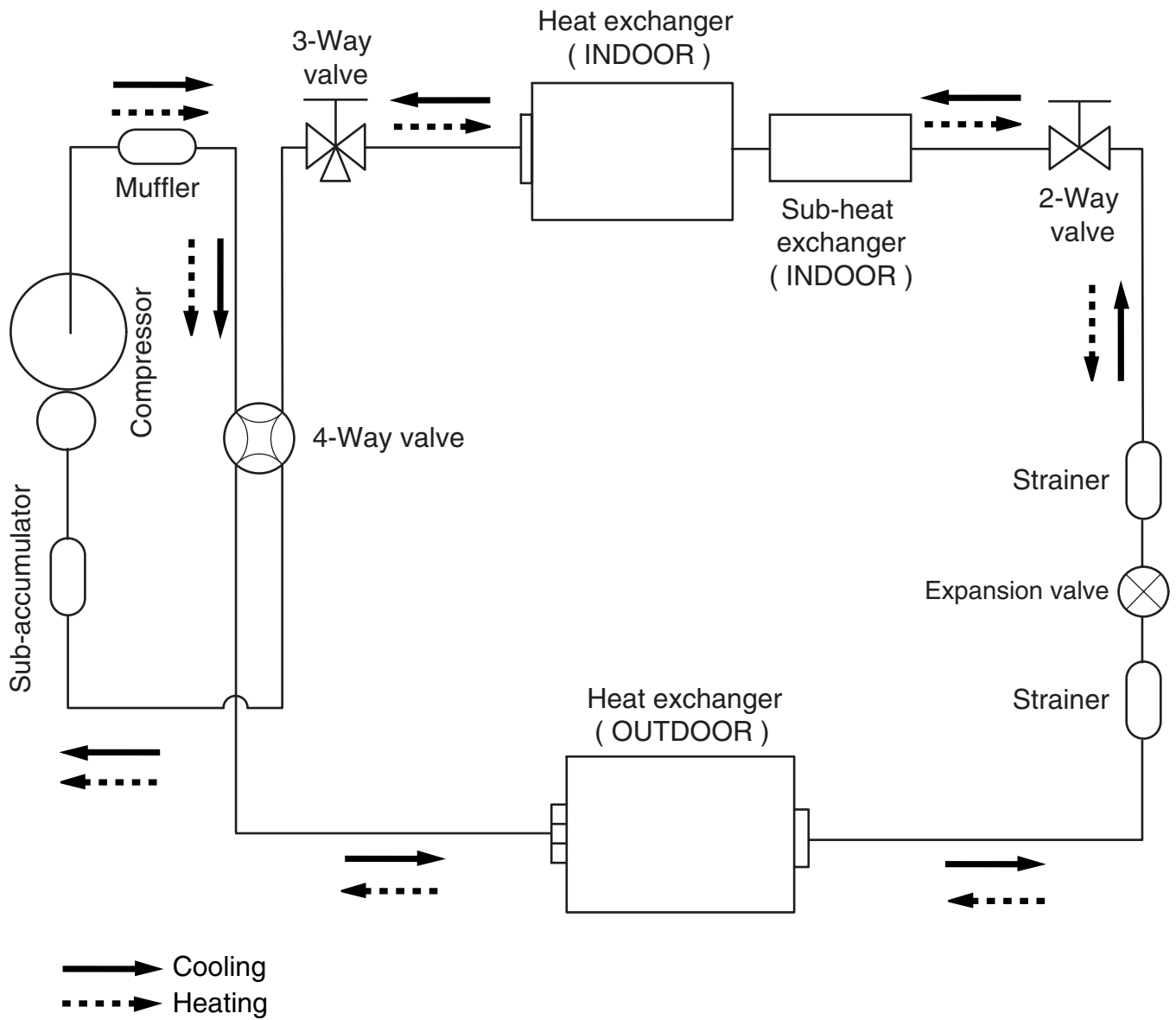
### INDOOR UNIT



### OUTDOOR UNIT



## REFRIGERANT SYSTEM DIAGRAM

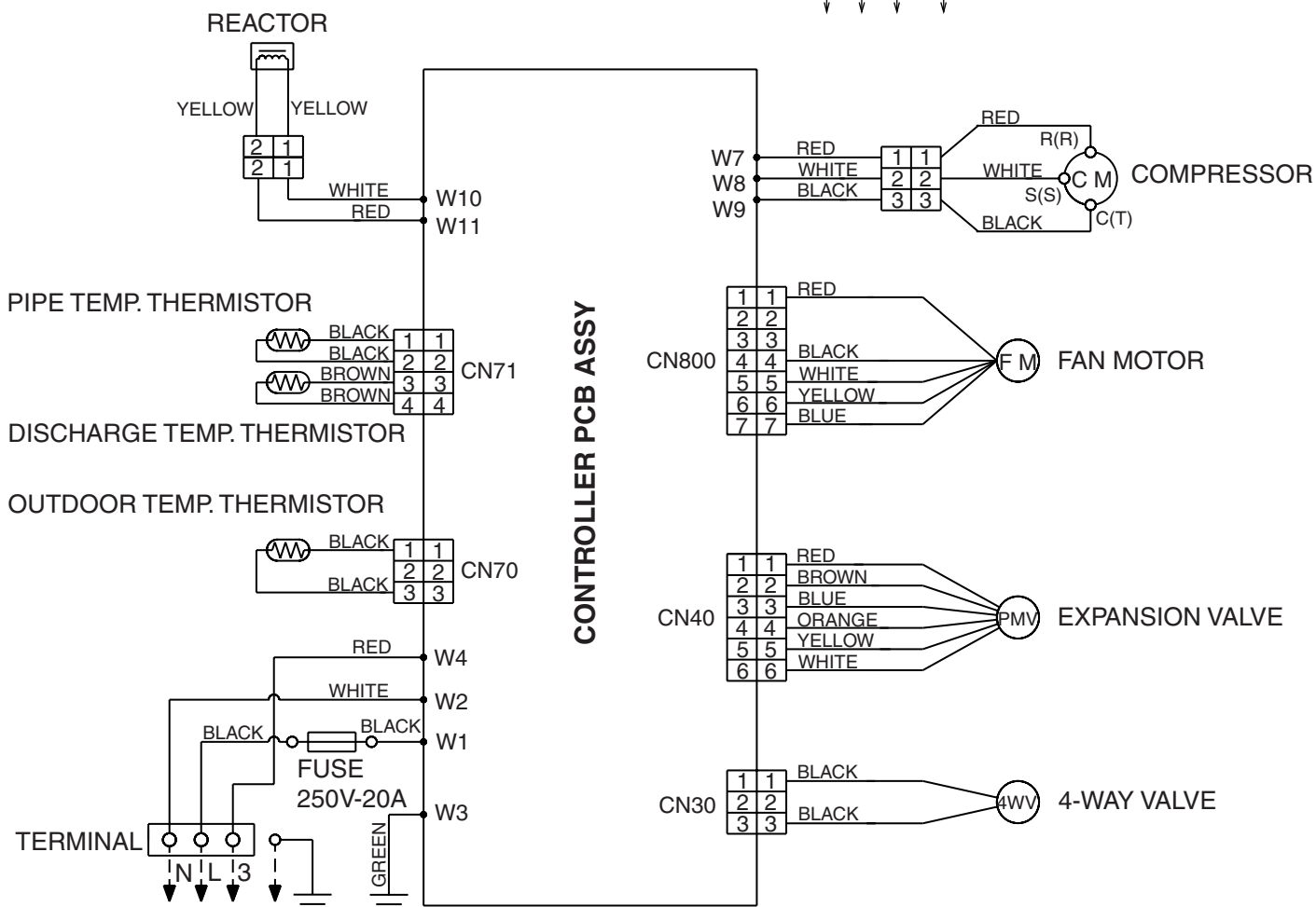
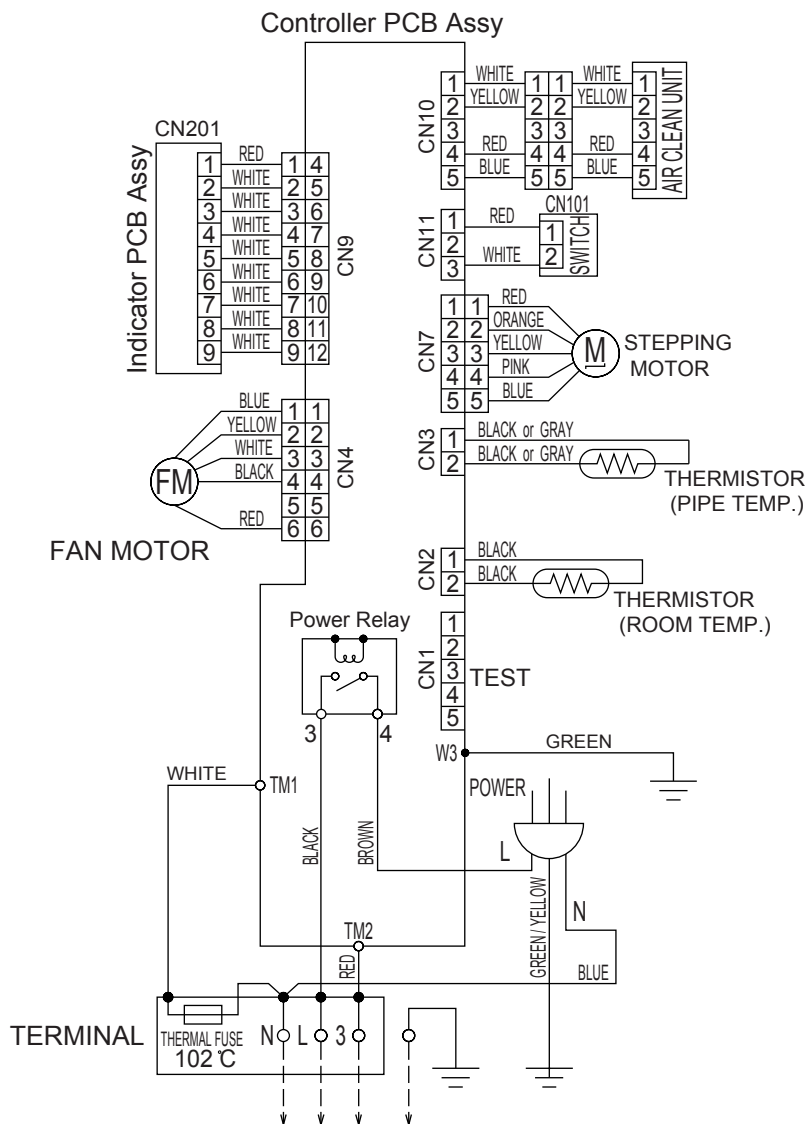


Refrigerant pipe diameter  
 Liquid : 1/4" (6.35 mm)  
 Gas : 1/2" (12.7 mm)

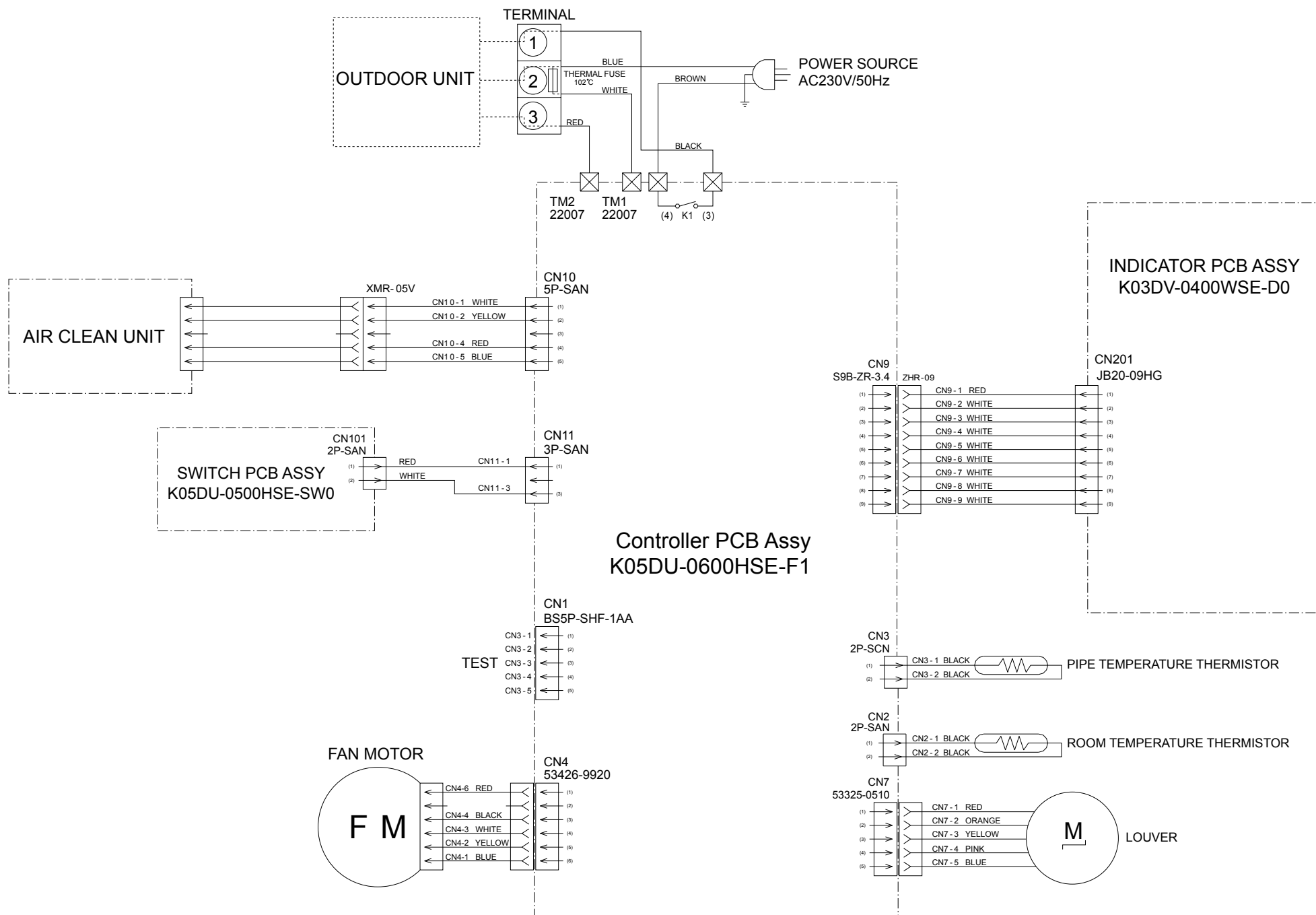
# CIRCUIT DIAGRAM

INDOOR UNIT

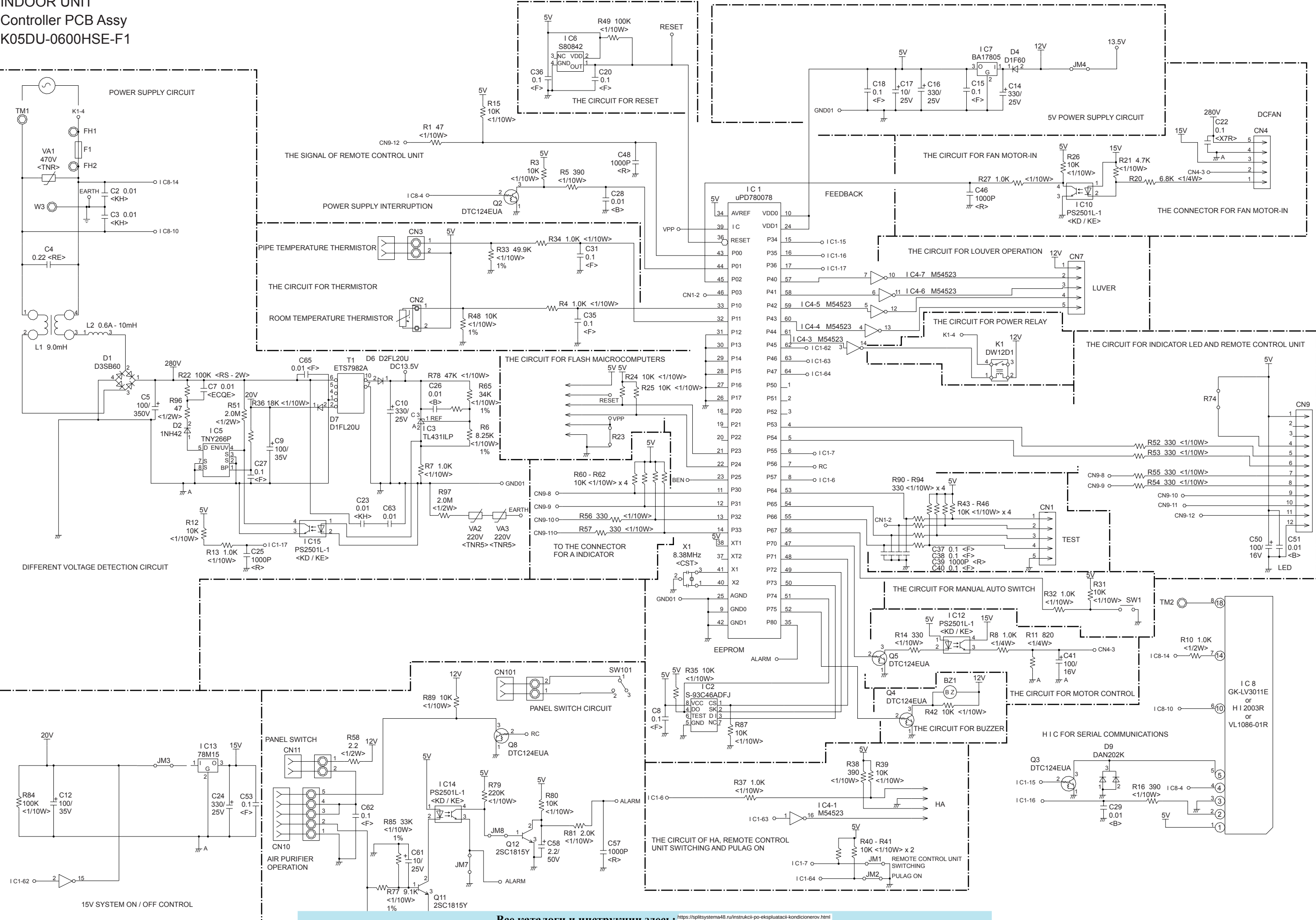
OUTDOOR UNIT



# INDOOR PCB CIRCUIT DIAGRAM

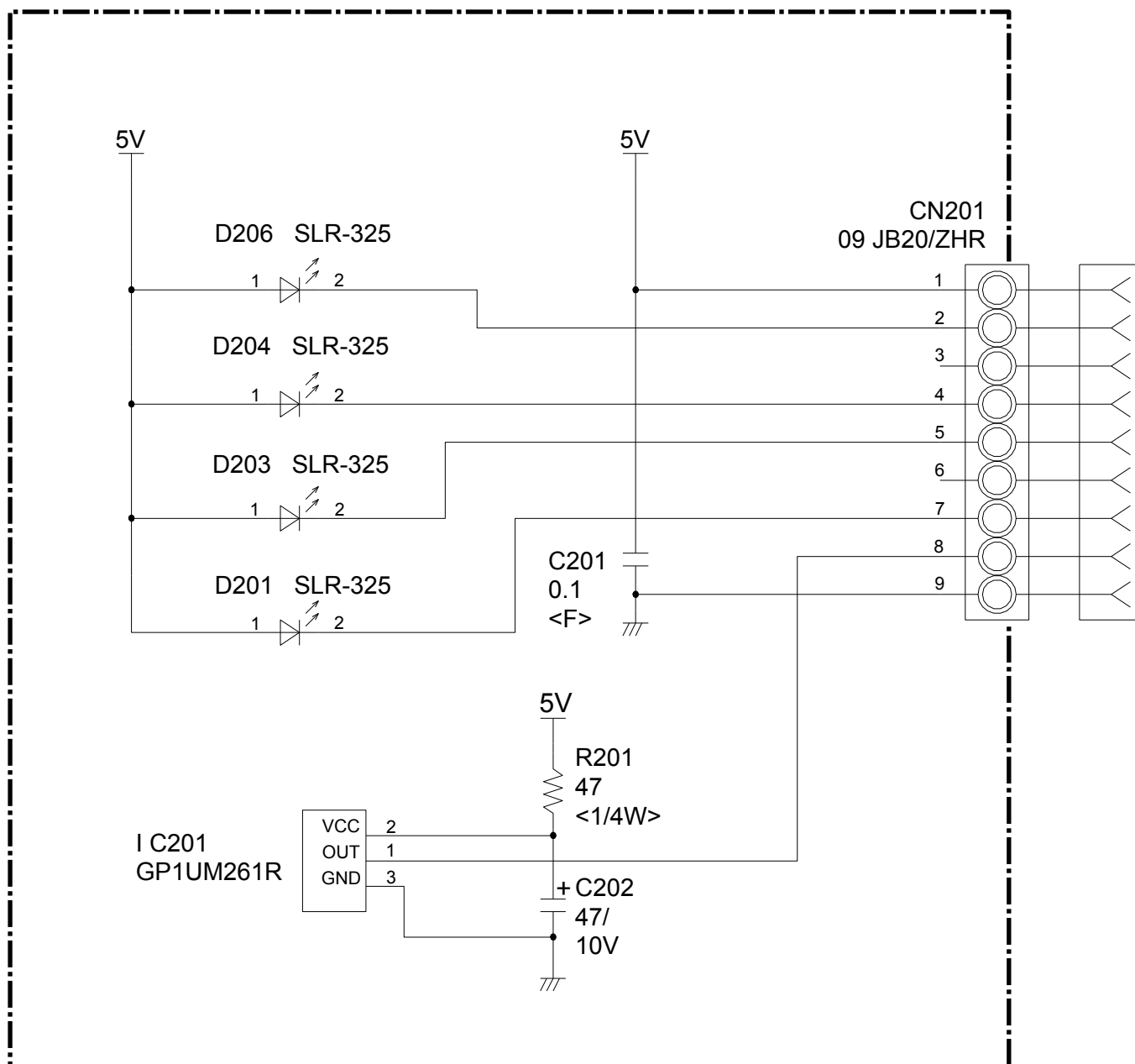


INDOOR UNIT  
Controller PCB Assy  
K05DU-0600HSE-F1



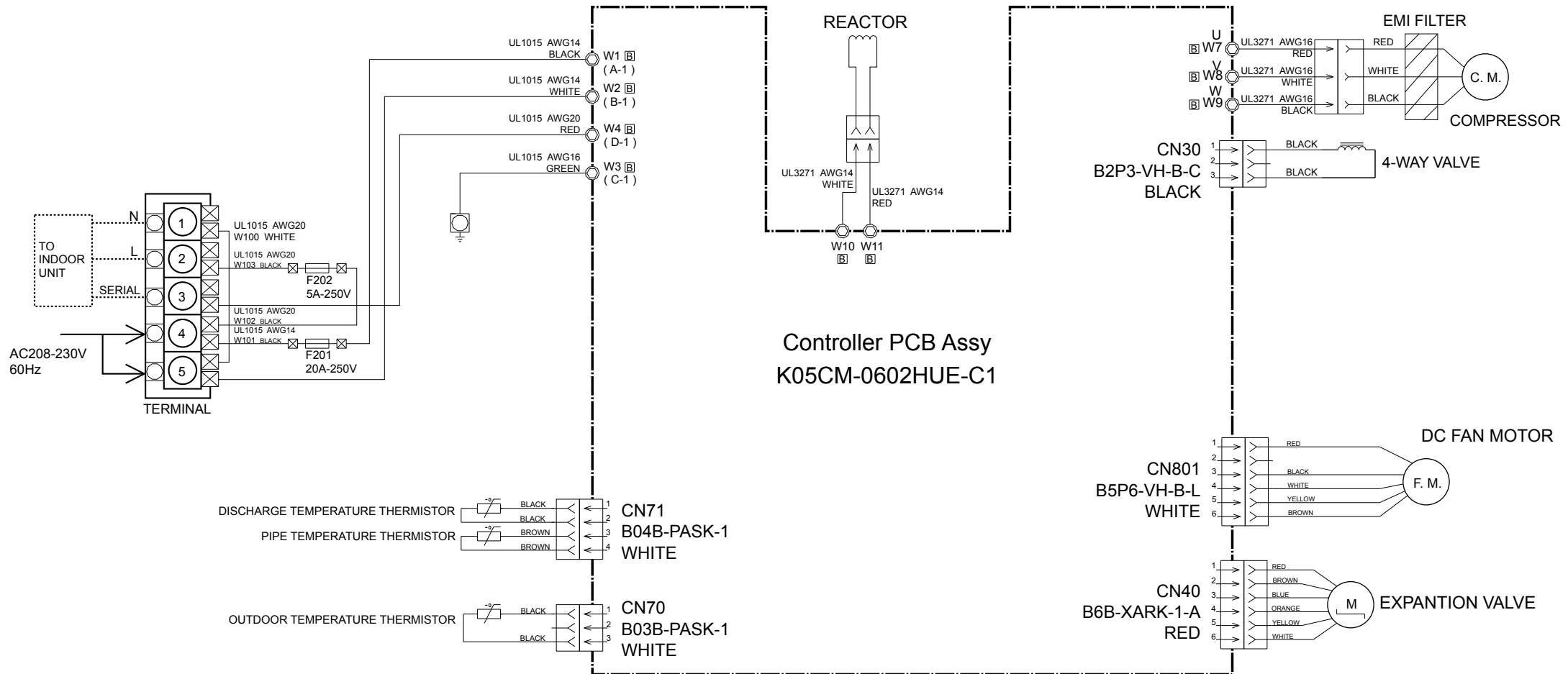
## INDOOR UNIT

### INDICATOR PCB ASSY K03DV-0400WSE-D0

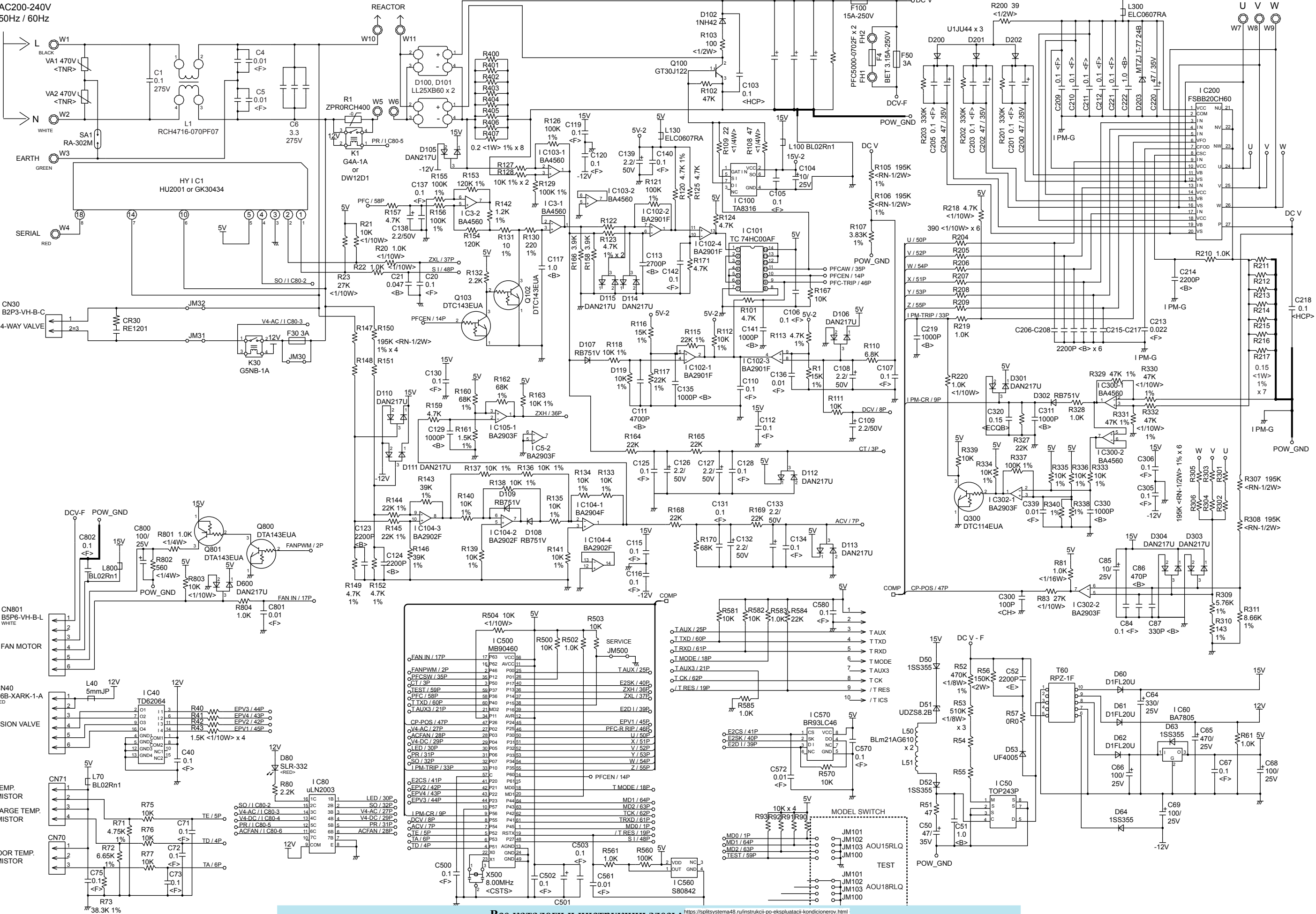


# OUTDOOR PCB CIRCUIT DIAGRAM

Inverter Assy  
EZ-006EHUE



OUTDOOR UNIT  
Controller PCB Assy  
K05CM-0602HUE-C1

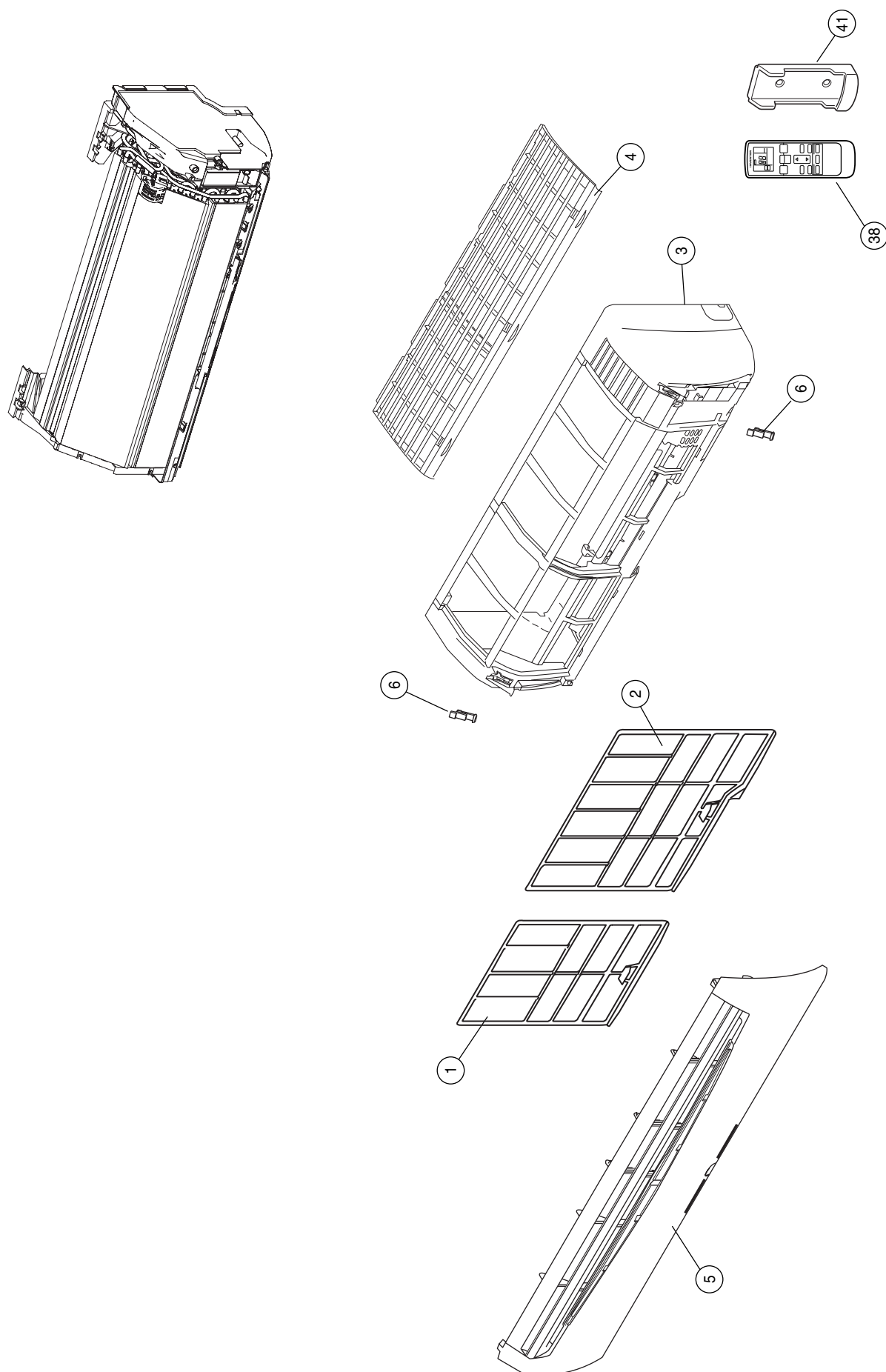


## ERROR CONTENTS

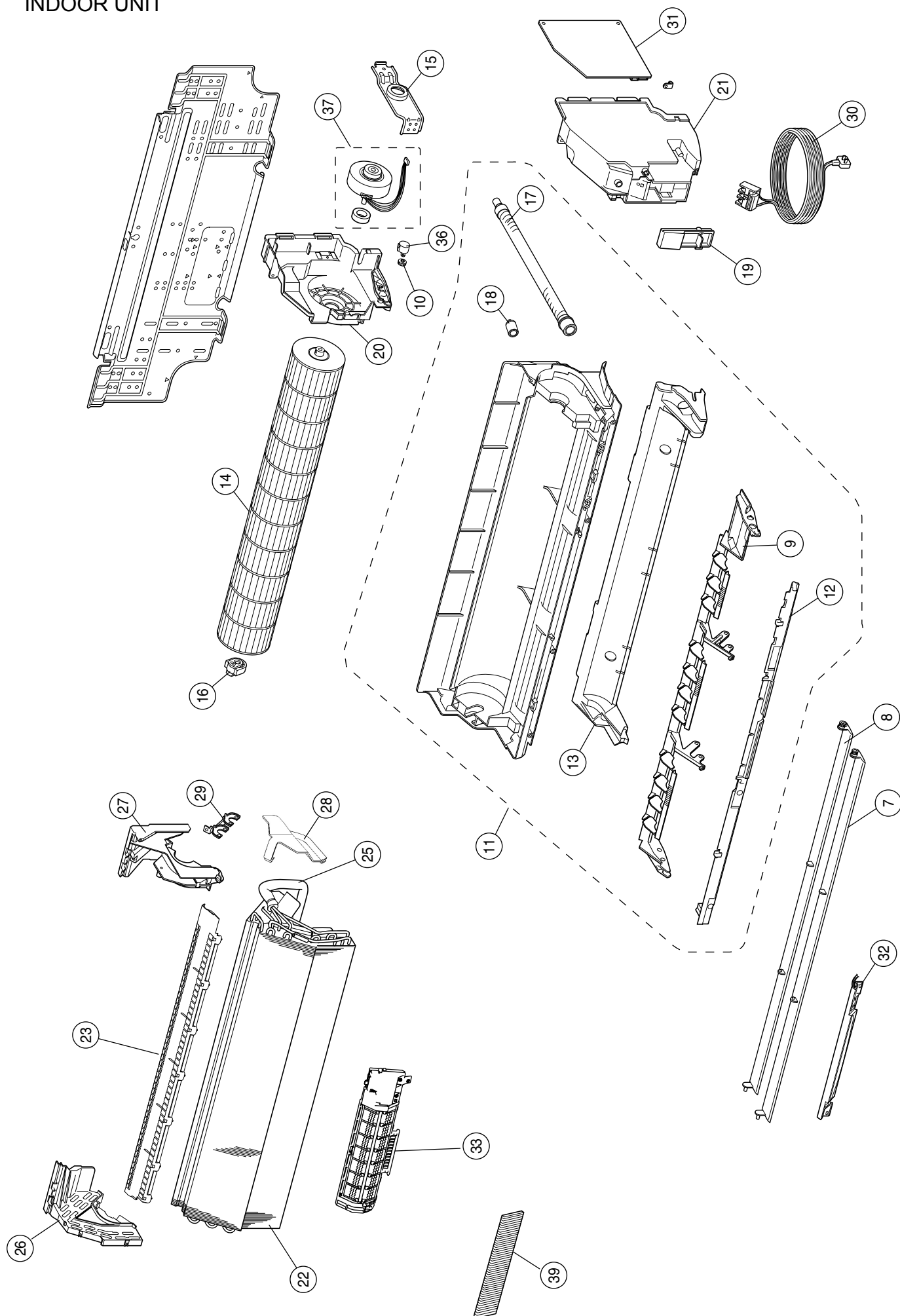
| Error                         | Display        |                | Error                                                |
|-------------------------------|----------------|----------------|------------------------------------------------------|
|                               | Operation LED  | Timer LED      |                                                      |
| Serial signal error           | Off            | 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

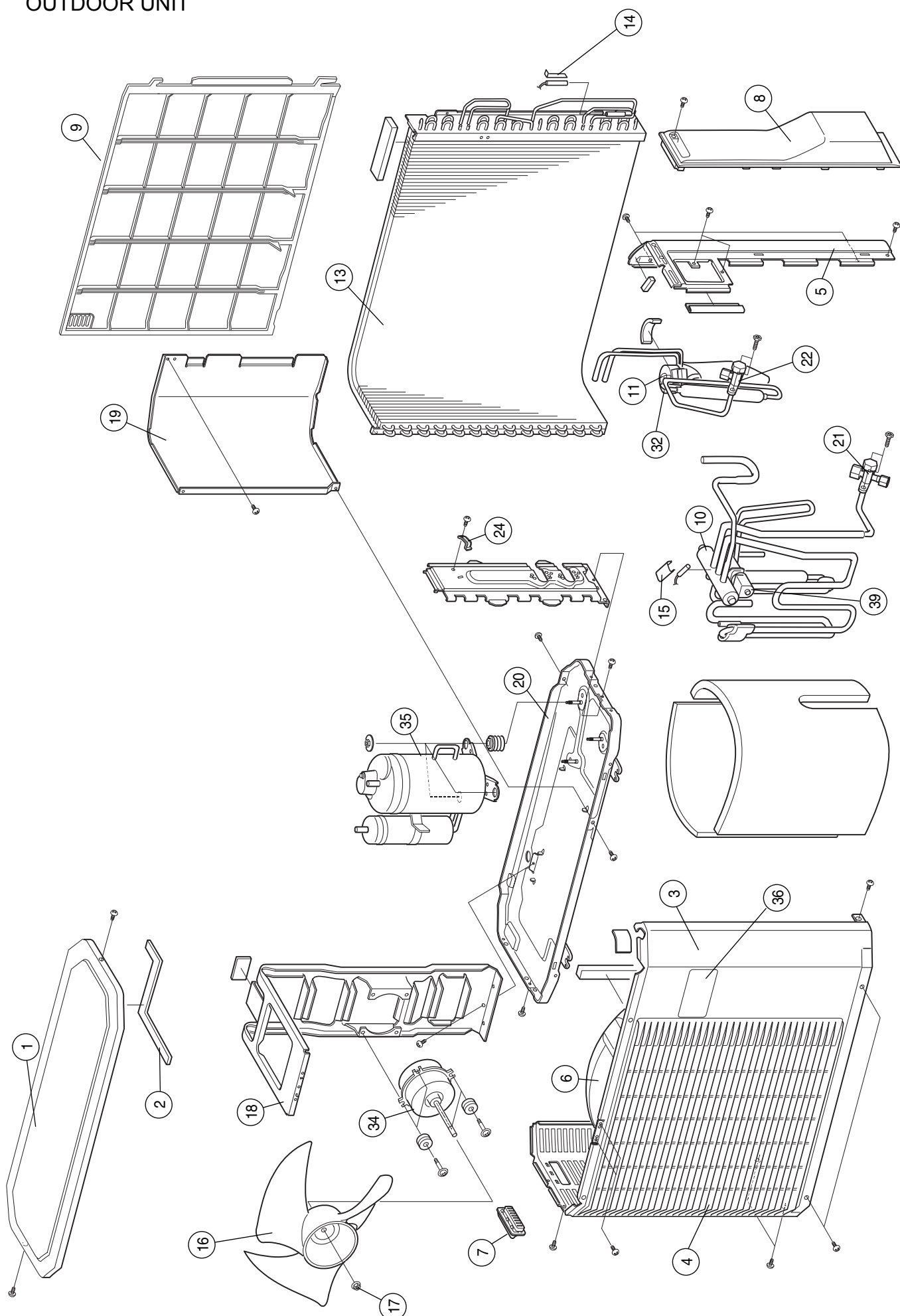
## INDOOR UNIT



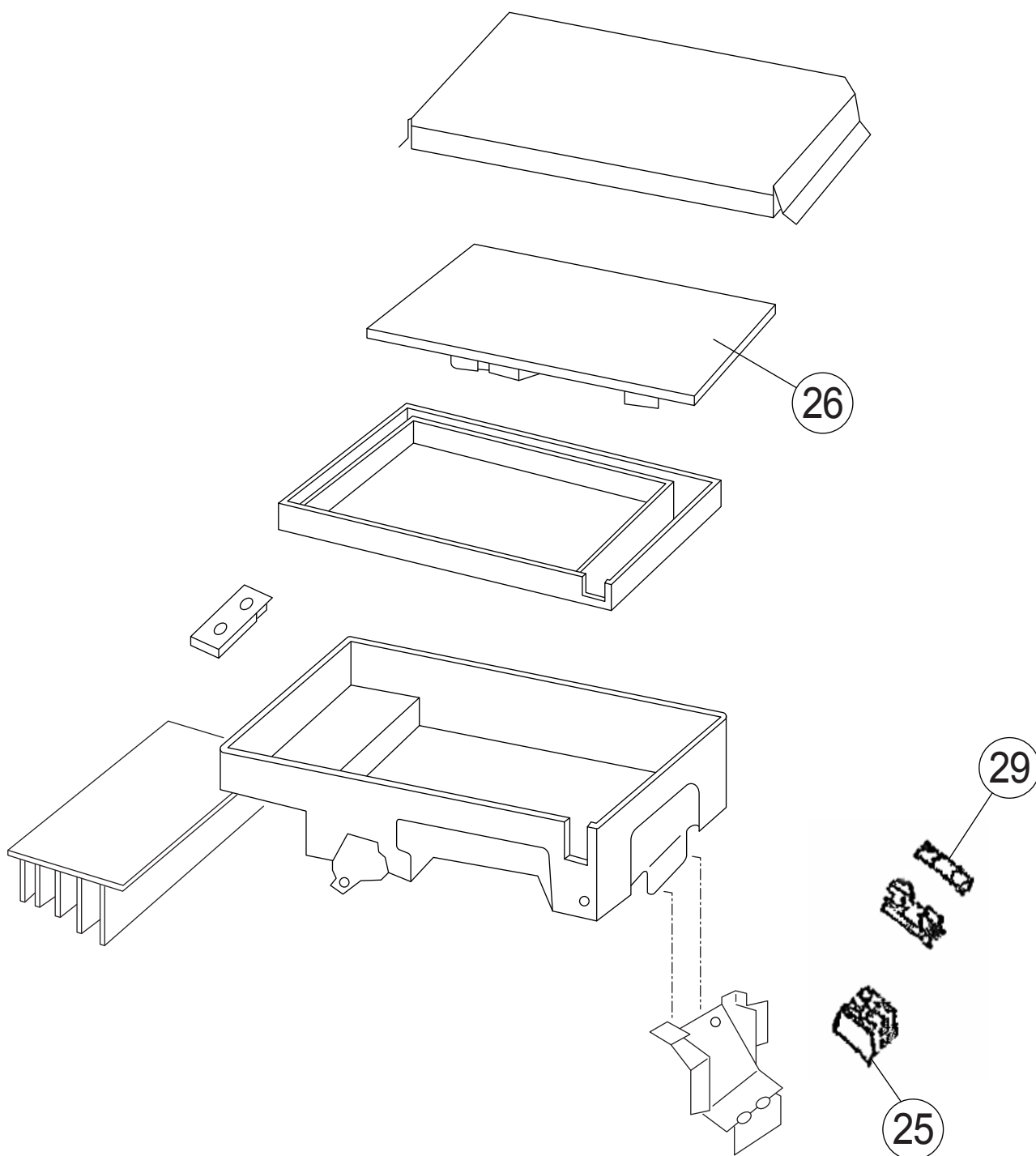
# INDOOR UNIT



# OUTDOOR UNIT



## OUTDOOR UNIT



# PARTS LIST

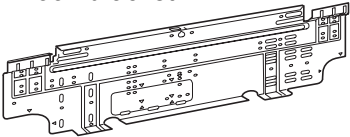
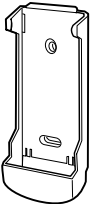
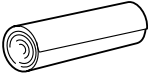
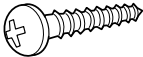
## INDOOR UNIT

| Ref.<br>No. | Description                 | Part No.   | Ord.<br>Q'ty |
|-------------|-----------------------------|------------|--------------|
|             |                             | RSB18LDC   |              |
| 1           | Air Filter-L                | 9312920013 |              |
| 2           | Air Filter-R                | 9312921010 |              |
| 3           | Front Panel                 | 9312914029 |              |
| 4           | Top Grill                   | 9313948016 |              |
| 5           | Intake Grille Assy          | 9313157098 |              |
| 6           | Intake grill Clamp          | 9306755010 |              |
| 7           | Louver-U                    | 9309991033 |              |
| 8           | Louver-Z                    | 9309992030 |              |
| 9           | Louver Holder Assy          | 9309993013 |              |
| 10          | Gear A                      | 9309994003 |              |
| 11          | Casing Assy                 | 9311354079 |              |
| 12          | Casing Cover F              | 9309987005 |              |
| 13          | Casing Cover B              | 9314160011 |              |
| 14          | Crossflow Fan Assy          | 9307836015 |              |
| 15          | Clamper (Motor)             | 9310102008 |              |
| 16          | Bearing-C Assy              | 9306628017 |              |
| 17          | Drain Hose Assy             | 9314147012 |              |
| 18          | Drain Cap Assy              | 9314493010 |              |
| 19          | Wire Clamper                | 9311946014 |              |
| 20          | Box Switch                  | 9312908011 |              |
| 21          | Cover (Switch)              | 9312909018 |              |
| 22          | Evaporator Total Assy       | 9313099015 |              |
| 23          | Filter Guide                | 9313920012 |              |
| 25          | H-Insulation (Pipe)-E       | 9304607007 |              |
| 26          | Evaporator Holder-L Assy    | 9313174019 |              |
| 27          | Evaporator Holder-R         | 9309983014 |              |
| 28          | Water Seal                  | 9312912018 |              |
| 29          | Bracket (Evaporator )       | 9310464007 |              |
| 30          | Power Cord Assy             | 9900339012 |              |
| 31          | Controller PCB Assy         | 9707375015 |              |
| 32          | Indicator PCB Assy          | 9705375024 |              |
| 33          | Air Cleaner Assy            | 9313148041 |              |
| 36          | Motor, Step                 | 9900139025 |              |
| 37          | Fan Motor, Brushless DC     | 9602109012 |              |
| 38          | Remote Control Unit Assy    | 9315027047 |              |
| 39          | Air Clean Filter            | 9313275013 |              |
| 41          | Remote Control Unit Holder  | 9305642045 |              |
| ----        | Room Temperature Thermistor | 9700801108 |              |
| ----        | Pipe Temperature Thermistor | 9702039042 |              |
| ----        | Transformer, Switch T1      | 9705054011 |              |
| ----        | Varister VA1                | 0000785020 |              |
| ----        | Fuse FSL 250 3.15(EM)       | 0600376062 |              |
| ----        | Fuse Holder FH1-FH2         | 0500158072 |              |
| ----        | Relay DW12D1 K1             | 9704185013 |              |
| ----        | Manual Auto Switch SW1      | 9703476013 |              |
| ----        | Evaporator B Assy           | 9311275022 |              |

## OUTDOOR UNIT

| Ref.<br>No. | Description              | Part No.     | Ord.<br>Q'ty |
|-------------|--------------------------|--------------|--------------|
|             |                          | ROS18LDC     |              |
| 1           | Top Panel Assy           | 9309230057   |              |
| 2           | Top Panel Seal           | 9309228016   |              |
| 3           | Cabinet Assy             | 9314809040   |              |
| 4           | Blow Down Grille         | 9308884015   |              |
| 5           | Cabinet Right Assy       | 9309236011   |              |
| 6           | Fan Ring                 | 9308885012   |              |
| 7           | Grip                     | 9308880017   |              |
| 8           | Switch Cover             | 9308882028   |              |
| 9           | Protective Net           | 9315319012   |              |
| 10          | 4-Way Valve Assy         | 9315726018   |              |
| 11          | Expansion Valve Assy     | 9311641018   |              |
| 13          | Condenser                | 9311381037   |              |
| 14          | Thermistor Spring-A      | 313728262708 |              |
| 15          | Thermistor Spring        | 9300089012   |              |
| 16          | Propeller Fan            | 9309909014   |              |
| 17          | Nut                      | 9304902003   |              |
| 18          | Motor Bracket            | 9308872012   |              |
| 19          | Separator Assy           | 9312971015   |              |
| 20          | Base Assy, Painted       | 9308869081   |              |
| 21          | 3-Way Valve Assy         | 9315159014   |              |
| 22          | 2-Way Valve Assy         | 9313064013   |              |
| 24          | Cord Clamp               | 9307271014   |              |
| 25          | Terminal                 | 9306489038   |              |
| 26          | Inverter PCB Assy        | 9707039153   |              |
| 29          | Fuse                     | 0600382018   |              |
| 32          | Expansion Valve Coil     | 9900057039   |              |
| 34          | Fan Motor                | 9601725015   |              |
| 35          | Compressor Assy          | 9313764012   |              |
| 36          | Emblem                   | 9312637034   |              |
| 39          | Solenoid Coil            | 9970033018   |              |
| ---         | IPM                      | 9705720015   |              |
| ---         | Thermistor Assy          | 9900148027   |              |
| ---         | Outdoor Temp. Thermistor | 9900210045   |              |

## STANDARD ACCESSORIES

| Name and Shape                                                                                                             | Part No.   |
|----------------------------------------------------------------------------------------------------------------------------|------------|
| Wall hook bracket<br>                     | 9310001004 |
| Remote control unit<br>                  | 9315027047 |
| Remote control unit holder<br>          | 9305642045 |
| Battery (penlight)<br>                  | 0600185527 |
| Cloth tape<br>                          | 9310519004 |
| Tapping screw (big)<br>(φ 4 x 25)<br>   | 0700076046 |
| Tapping screw (small)<br>(φ 3 x 12)<br> | 0700019036 |



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