

Split type room air conditioner  
Cassette type (50Hz)

# SERVICE MANUAL



| Indoor unit | Outdoor unit |
|-------------|--------------|
| AUXG18KRLB  | AOYG18KBTB   |
| AUXG22KRLB  | AOYG22KBTB   |
| UTG-UKYC-W  |              |

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# Specifications ( Indoor unit )

| Type                         |                        |           |                                      | Cassette  |              |
|------------------------------|------------------------|-----------|--------------------------------------|---|--------------|
|                              |                        |           |                                      | Inverter heat pump  |              |
| Model name                   |                        |           |                                      | AUXG18KRLB  | AUXG22KRLB   |
| Power supply                 |                        |           |                                      | 230 V ~ 50 Hz   |              |
| Power supply intake          |                        |           |                                      | Outdoor unit  |              |
| Available voltage range      |                        |           |                                      | 198—264 V   |              |
| Capacity                     | Cooling                | Rated     | kW                                   | 5.2   | 6.0          |
|                              |                        |           | Btu/h                                | 17,700  | 20,500       |
|                              |                        | Min.—Max. | kW                                   | 0.90—5.90   | 0.90—6.70    |
|                              | Heating                | Rated     | Btu/h                                | 3,100—20,100  | 3,100—22,900 |
|                              |                        |           | kW                                   | 6.0   | 7.0          |
|                              |                        | Min.—Max. | kW                                   | 0.90—7.50   | 0.90—8.00    |
|                              |                        |           |                                      | Btu/h   | 3,100—27,300 |
| Input power                  | Cooling                | Rated     | kW                                   | 1.36  | 1.71         |
|                              |                        |           |                                      | Max.  | 2.79         |
|                              | Heating                | Rated     | 1.58                                 | 1.82  |              |
|                              |                        |           | Max.                                 | 2.79  | 2.90         |
| Current                      | Cooling                | Rated     | A                                    | 6.0   | 7.5          |
|                              | Heating                |           |                                      | 6.9   | 8.0          |
| Power factor                 | Cooling                |           |                                      | 98.6  | 99.1         |
|                              | Heating                |           |                                      | 99.6  | 98.9         |
| EER                          | Cooling                |           |                                      | 3.82  | 3.51         |
| COP                          | Heating                |           |                                      | 3.80  | 3.85         |
| Moisture removal             |                        |           | L/h (pints/h)                        | 1.5 (2.6)   | 2.2 (3.9)    |
| Maximum operating current *1 |                        | Cooling   | A                                    | 12.1  | 12.6         |
|                              |                        | Heating   |                                      | 12.1  | 12.6         |
| Fan                          | Airflow rate           | Cooling   | m <sup>3</sup> /h                    | HIGH  | 1,050        |
|                              |                        |           |                                      | MED   | 960          |
|                              |                        |           |                                      | LOW   | 900          |
|                              |                        |           |                                      | QUIET   | 780          |
|                              |                        | Heating   |                                      | HIGH  | 1,050        |
|                              |                        |           |                                      | MED   | 960          |
|                              |                        |           |                                      | LOW   | 900          |
|                              |                        |           |                                      | QUIET   | 780          |
|                              | Type × Q'ty            |           |                                      | Turbo fan × 1   |              |
|                              | Motor output           |           |                                      | W   |              |
|                              |                        |           |                                      | 81  |              |
| Sound pressure level *2      | Cooling                | dB (A)    | HIGH                                 | 33  |              |
|                              |                        |           | MED                                  | 32  |              |
|                              |                        |           | LOW                                  | 31  |              |
|                              |                        |           | QUIET                                | 28  |              |
|                              | Heating                |           | HIGH                                 | 33  |              |
|                              |                        |           | MED                                  | 32  |              |
|                              |                        |           | LOW                                  | 31  |              |
|                              |                        |           | QUIET                                | 28  |              |
| Heat exchanger type          | Dimensions (H × W × D) |           | mm                                   | 210 × 2,127 × 13.3  |              |
|                              |                        |           |                                      | 210 × 2,061 × 13.3  |              |
|                              | Fin pitch              |           |                                      | 1.2   |              |
|                              | Rows × Stages          |           |                                      | 2 × 10  |              |
|                              | Pipe type              |           |                                      | Copper tube   |              |
| Fin type                     |                        |           | Aluminum                             |   |              |
| Dimensions (H × W × D)       | Net                    |           | mm                                   | 246 × 840 × 840   |              |
|                              | Gross                  |           |                                      | 298 × 960 × 950   |              |
| Weight                       | Net                    |           | kg                                   | 23  |              |
|                              | Gross                  |           |                                      | 28  |              |
| Connection pipe              | Size                   | Liquid    | mm (in)                              | Ø 6.35 (Ø 1/4)  |              |
|                              |                        | Gas       |                                      | Ø 12.70 (Ø 1/2)   |              |
|                              | Method                 |           |                                      | Flare   |              |
| Drain hose                   | Material               |           | PVC(VP25)                            |   |              |
|                              | Size                   |           | mm                                   | Ø 25 (I.D.), Ø 32 (O.D.)  |              |
| Operation range              | Cooling                |           | °C                                   | 18 to 32  |              |
|                              | Heating                |           | %RH                                  | 80 or less  |              |
| Cassette grille (Option)     | Material               |           | Polystyrene                          |   |              |
|                              | Color                  |           | White                                |   |              |
|                              | Dimensions (H × W × D) |           | Approximate color of MUNSELL N 9.25/ |   |              |
|                              | Net                    | mm        | 53 × 950 × 950                       |   |              |
|                              |                        |           | 110 × 1,000 × 1,010                  |   |              |
|                              | Weight                 | kg        | Net                                  |   |              |
| Gross                        |                        |           |                                      |   |              |
|                              |                        |           |                                      | 6.0   |              |
|                              |                        |           |                                      | 10.0  |              |
| Remote control (Option)      |                        |           |                                      | Wired remote controller, Wireless remote controller, Mobile app*3 (FGLair™) |              |

## NOTES:

- Specifications are based on the following conditions:
  - Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.
  - Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB.
  - Pipe length: 5 m, Height difference: 0 m. (Between outdoor unit and indoor unit.)
- Protective function might work when using it outside the operation range.
- \*1: Maximum operating current is the total current of the indoor unit and the outdoor unit.
- \*2: Sound pressure level:
  - Measured values in manufacturer's anechoic chamber.
  - Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.
- \*3: Available on Google Play™ store or on App Store®. Optional WLAN adapter is also required. For details, refer to the setting manual.

| Specifications for ErP Lot10 |                   |         |             |                 |
|------------------------------|-------------------|---------|-------------|-----------------|
| Model name                   |                   |         | AUXG18KRLB  | AUXG22KRLB      |
| Energy efficiency class      | Cooling           |         |             | A <sup>++</sup> |
|                              | Heating (Average) |         |             | A <sup>+</sup>  |
| Pdesign                      | Cooling           | kW      | 5.2 (35°C)  | 6.0 (35°C)      |
|                              | Heating (Average) |         | 4.4 (-10°C) | 4.8 (-10°C)     |
| SEER                         | Cooling           | kWh/kWh | 7.00        | 7.00            |
| SCOP                         | Heating (Average) |         | 4.30        | 4.40            |
| Annual energy consumption    | QCE               |         | 260         | 300             |
|                              | QHE (Average)     |         | 1,431       | 1,527           |
| Sound power level            | Cooling           | HIGH    | dB (A)      | 47              |
|                              | Heating           |         |             | 47              |

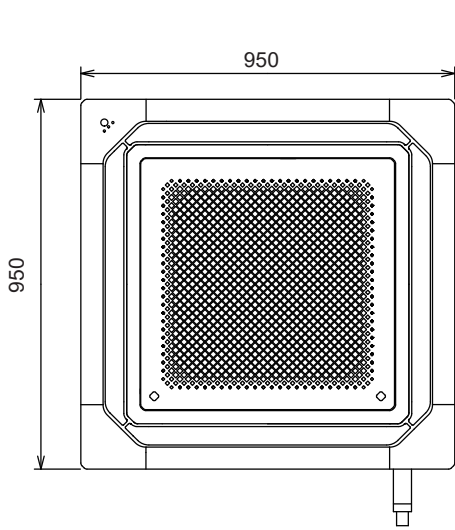
# Specifications ( Outdoor unit )

| Type  |              |                                 |  | Inverter heat pump |  |                   |        |  |
|---|--------------|---------------------------------|--|--------------------|--|-------------------|--------|--|
| Model name  |              |                                 |  | AOYG18KBTB         |  | AOYG22KBTB        |        |  |
| Power supply  |              |                                 |  | 230 V ~ 50 Hz      |  |                   |        |  |
| Available voltage range   |              |                                 |  | 198—264 V          |  |                   |        |  |
| Starting current  |              |                                 |  | A                  |  | 7.1               |        |  |
| Fan   | Airflow rate | Cooling                         | m <sup>3</sup> /h                                  | 2,160              |  | 2,240             |        |  |
|   |              | Heating                         |  | 1,830              |  | 1,960             |        |  |
|   | Type × Q'ty  | Propeller fan × 1               |  |                    |  |                   |        |  |
| Motor output  |              |                                 |  | W                  |  | 49                |        |  |
| Sound pressure level *1   |              | Cooling                         | dB (A)   | 50                 |  | 51                |        |  |
|   |              | Heating                         |  | 50                 |  | 51                |        |  |
| Sound power level   |              | Cooling                         | dB (A)   | 62                 |  | 63                |        |  |
|   |              | Heating                         |  | 62                 |  | 63                |        |  |
| Heat exchanger type   |              | Dimensions (H × W × D)          | mm   | 588 × 881 × 18.19  |  | 588 × 881 × 18.19 |        |  |
|   |              | 588 × 851 × 18.19               |  | 588 × 851 × 18.19  |  | 588 × 851 × 18.19 |        |  |
|   |              | Fin pitch                       | 1.3  |                    |  |                   |        |  |
|   |              | Rows × Stages                   | 2 × 28   |                    | 2 × 28                                   |                   | 2 × 28 |  |
|   |              | Pipe type                       | Copper tube  |                    |  |                   |        |  |
| Compressor  |              | Type × Q'ty                     | DC Twin rotary × 1                                 |                    |  |                   |        |  |
|   |              | Motor output                    | W  |                    | 900                                      |                   | 1,060  |  |
| Refrigerant   |              | Type (Global warming potential) | R32 (675)  |                    |  |                   |        |  |
|   |              | Charge                          | g  |                    | 1,020                                    |                   | 1,250  |  |
| Refrigerant oil   |              | Type                            | FW68S  |                    | RmM68AF                                  |                   |        |  |
|   |              | Amount                          | cm <sup>3</sup>                                    |                    | 350                                      |                   | 400    |  |
| Enclosure   |              | Material                        | Steel sheet  |                    |  |                   |        |  |
|   |              | Color                           | Beige<br>Approximate color of Munsell 10YR 7.5/1.0 |                    |  |                   |        |  |
| Dimensions (H × W × D)  |              | Net                             | mm   | 632 × 799 × 290    |  |                   |        |  |
|   |              | Gross                           |  | 692 × 940 × 375    |  |                   |        |  |
| Weight  |              | Net                             | kg   | 36                 |  | 38                |        |  |
|   |              | Gross                           |  | 40                 |  | 42                |        |  |
| Connection pipe   |              | Size                            | mm (in)  | Ø 6.35 (Ø 1/4)     |  |                   |        |  |
|   |              | Liquid                          |  | Ø 12.70 (Ø 1/2)    |  |                   |        |  |
|   |              | Gas                             |  |                    |  |                   |        |  |
|   |              | Method                          | Flare  |                    |  |                   |        |  |
|   |              | Pre-charge length               | m  |                    | 20                                       |                   |        |  |
| Max. length   |              |                                 | 30   |                    |  |                   |        |  |
| Max. height difference  |              |                                 | 20   |                    | 25                                       |                   |        |  |
| Operation range   |              | Cooling                         | °C   | -15 to 46          |  |                   |        |  |
|   |              | Heating                         |  | -15 to 24          |  |                   |        |  |
| Drain hose  |              | Material                        | PP   |                    |  |                   |        |  |
|   |              | Size                            | mm   |                    | Ø 13.0 (I. D.), Ø 16.0 to Ø 16.8 (O. D.) |                   |        |  |
| <b>NOTES:</b>   |              |                                 |  |                    |  |                   |        |  |
| <ul style="list-style-type: none"> <li>• Specifications are based on the following conditions: <ul style="list-style-type: none"> <li>– Cooling: Indoor temperature of 27 °CDB/19 °CWB, and outdoor temperature of 35 °CDB/24 °CWB.</li> <li>– Heating: Indoor temperature of 20 °CDB/15 °CWB, and outdoor temperature of 7 °CDB/6 °CWB.</li> <li>– Pipe length: 5 m, Height difference: 0 m.</li> </ul> </li> <li>• Protective function might work when using it outside the operation range.</li> <li>• *1: Sound pressure level <ul style="list-style-type: none"> <li>– Measured values in manufacturer's anechoic chamber.</li> <li>– Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.</li> </ul> </li> </ul> |              |                                 |  |                    |  |                   |        |  |

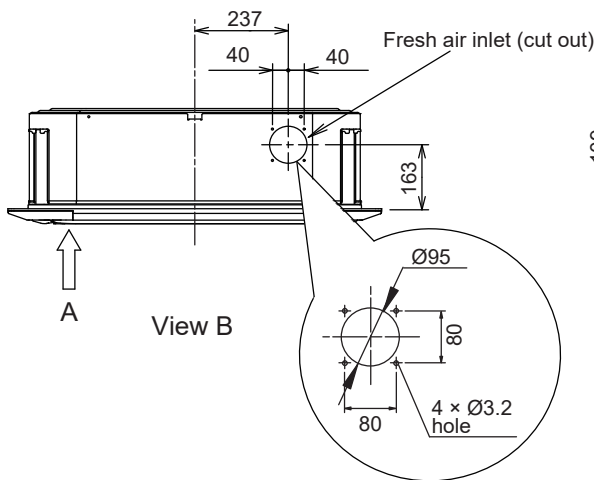
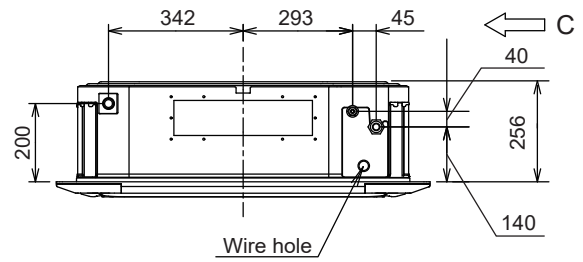
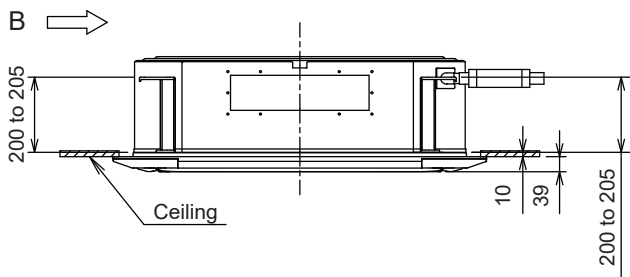
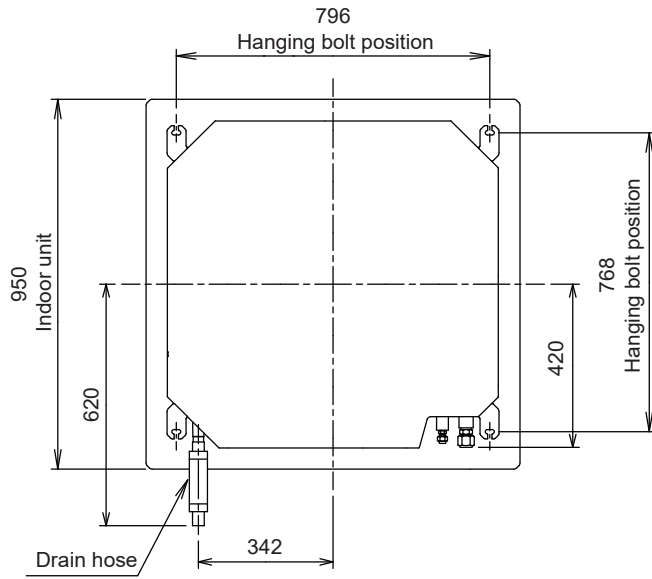
# Dimensions

## Models: AUXG18KRLB and AUXG22KRLB

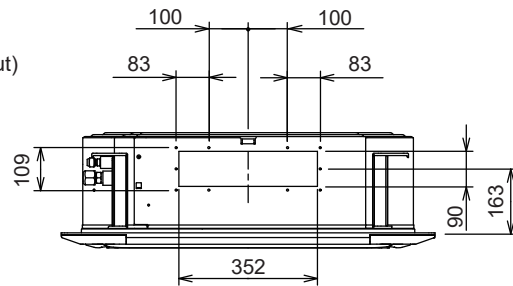
Unit: mm



View A



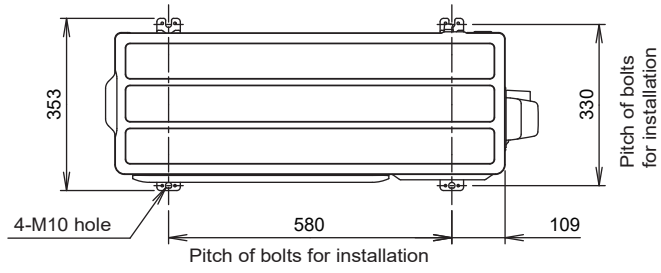
View B



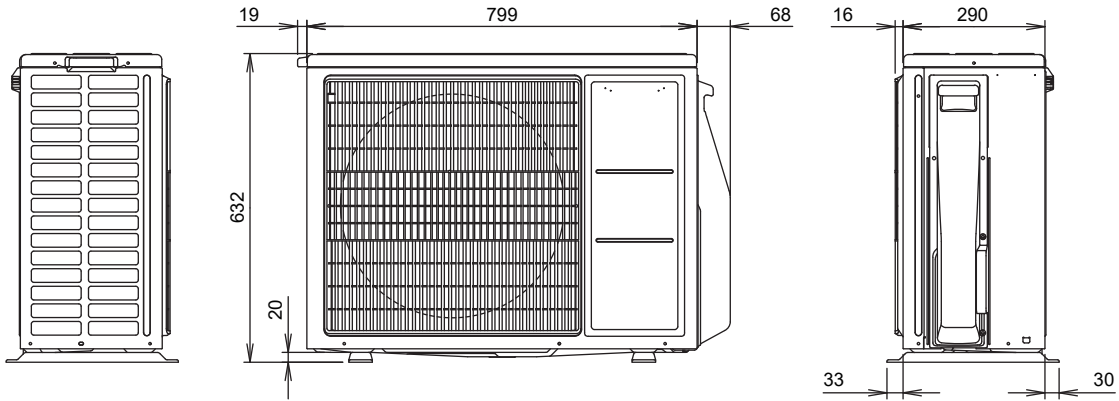
View C

# Models: AOYG18KBTB and AOYG22KBTB

Unit: mm



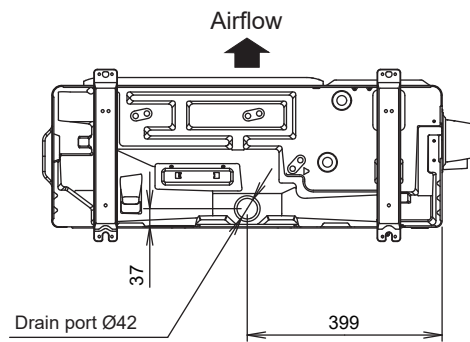
Top view



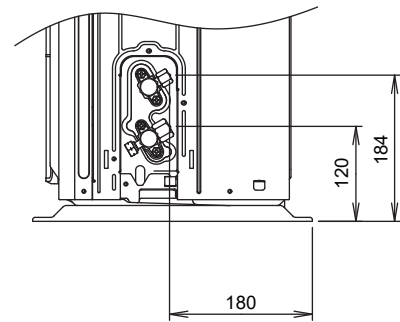
Side view

Front view

Side view



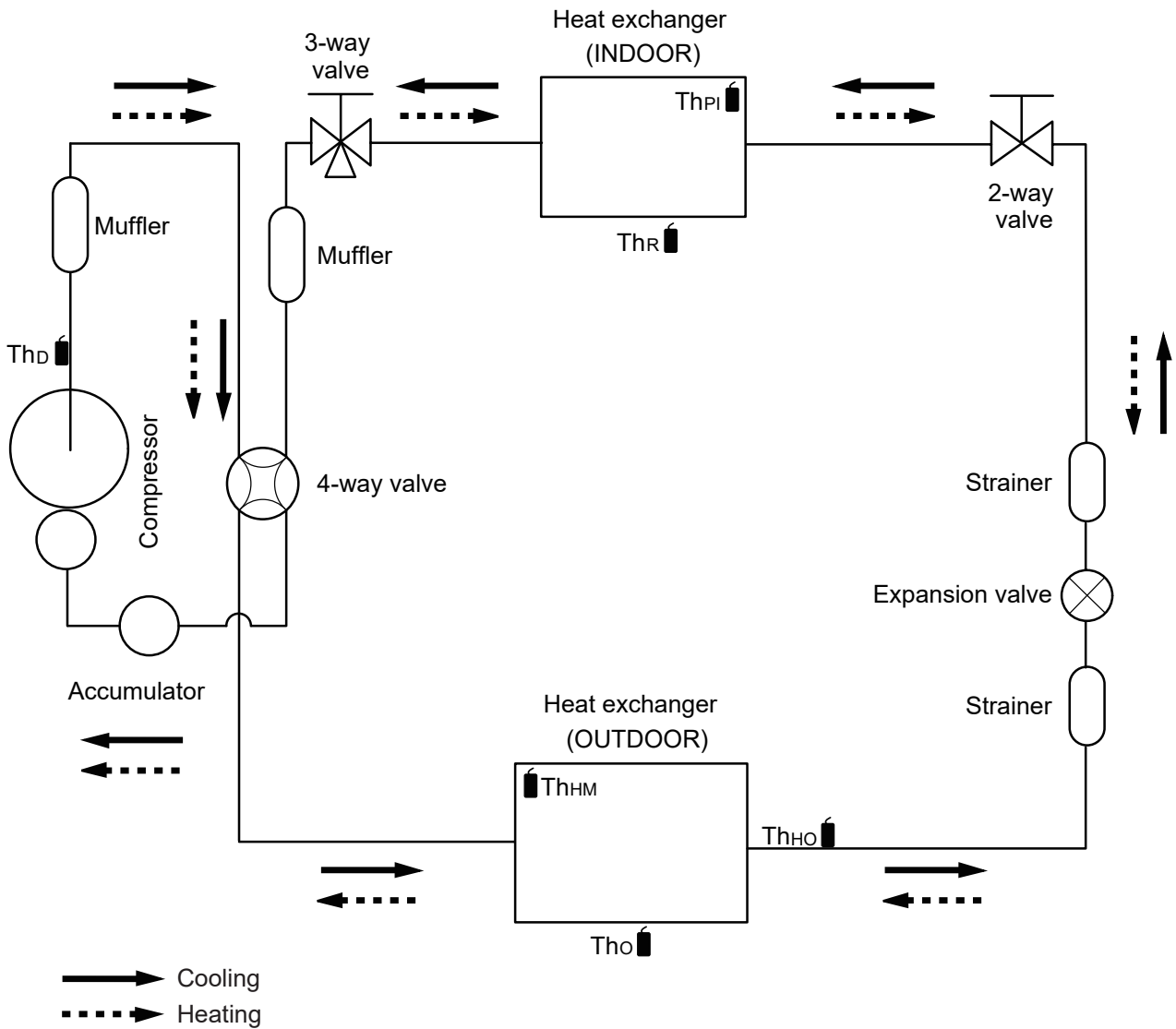
Bottom view



Side view (Valve part)

# Refrigerant circuit

## Model: AOYG18KBTB



Th<sub>D</sub> : Thermistor (Discharge temperature)

Th<sub>O</sub> : Thermistor (Outdoor temperature)

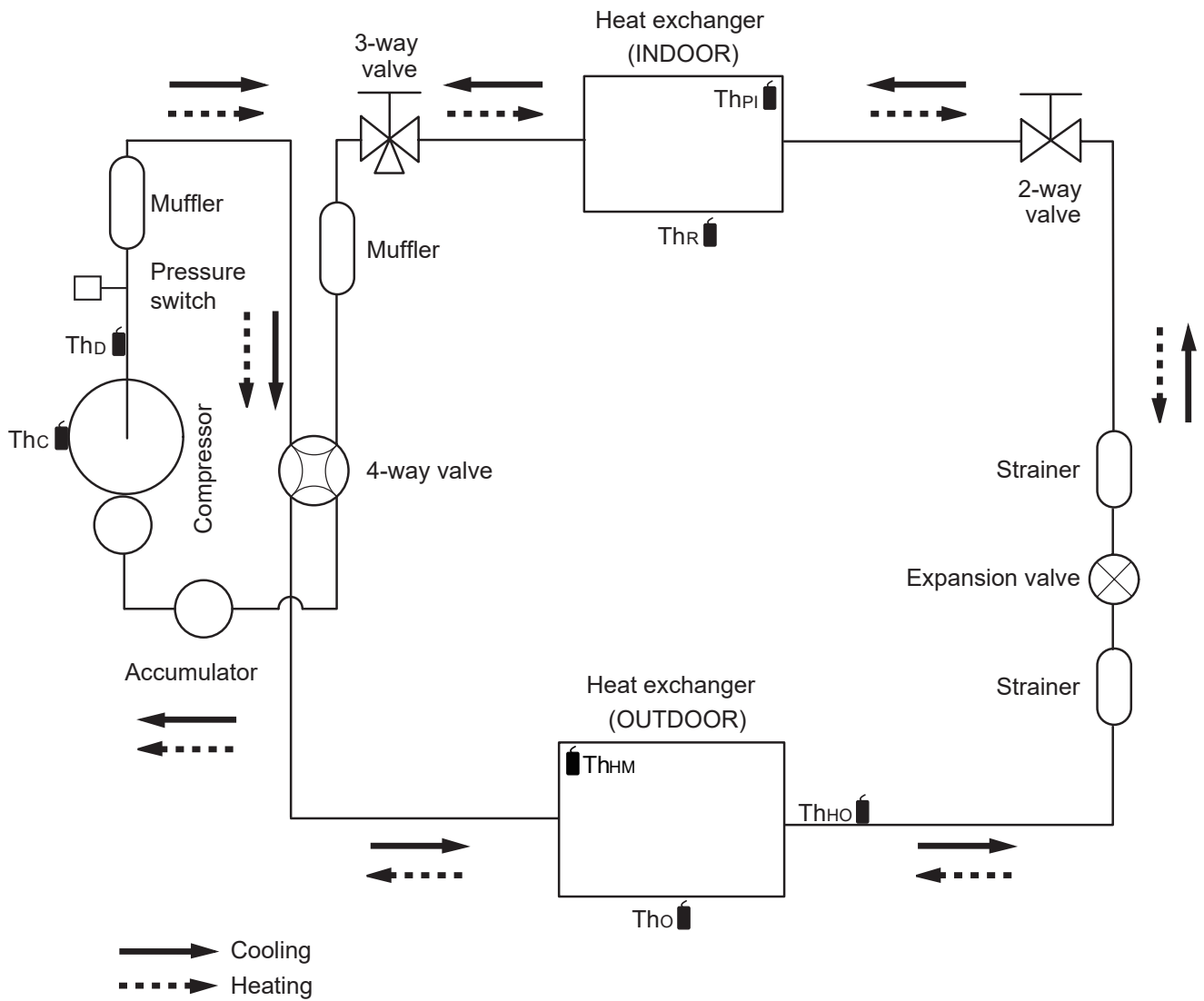
Th<sub>HO</sub> : Thermistor (Heat exchanger out temperature)

Th<sub>HM</sub> : Thermistor (Heat exchanger middle temperature)

Th<sub>R</sub> : Thermistor (Room temperature)

Th<sub>PI</sub> : Thermistor (Pipe temperature)

# Model: AOYG22KBTB



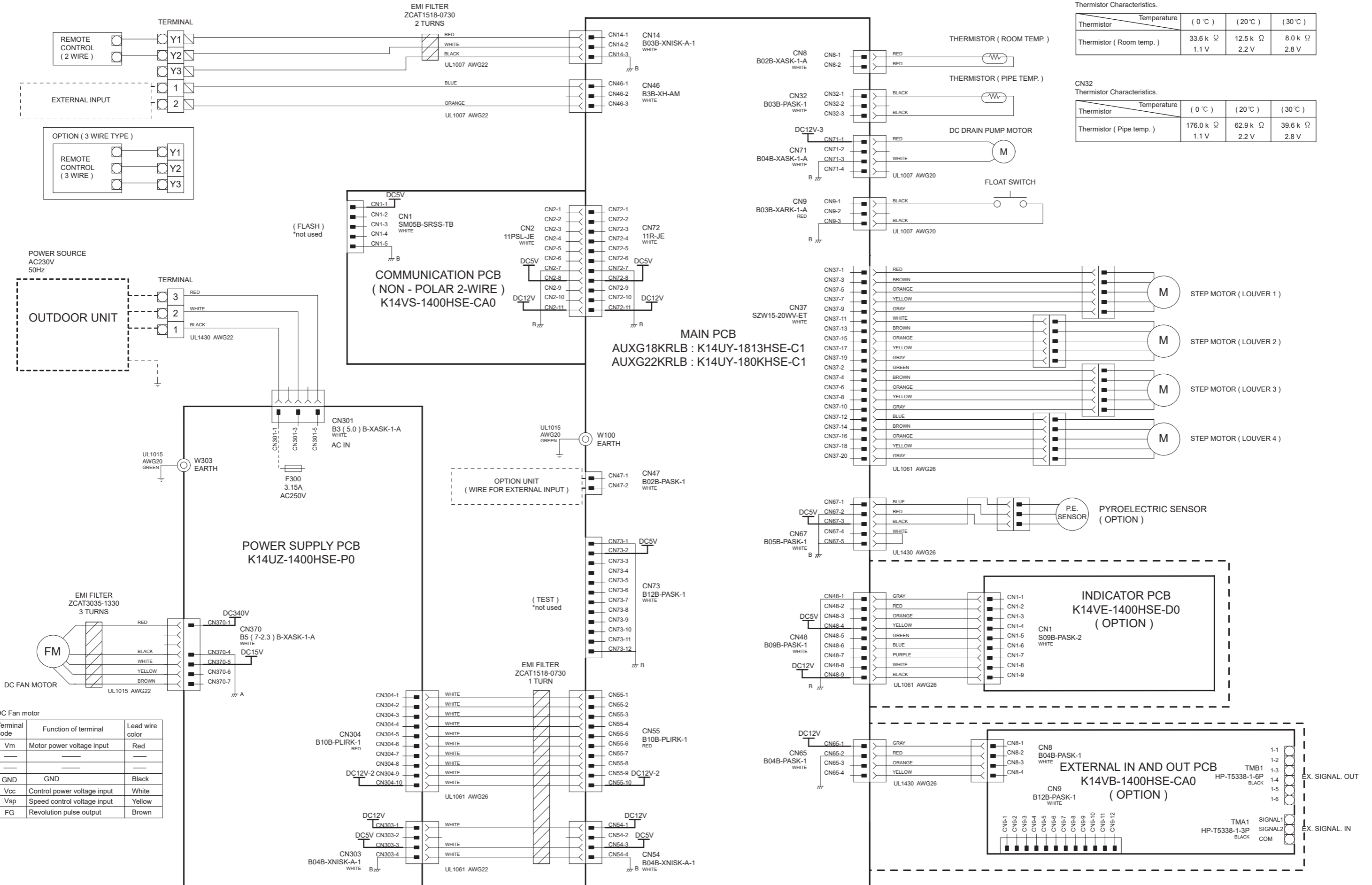
- Thc : Thermistor (Compressor temperature)
- Thd : Thermistor (Discharge temperature)
- Tho : Thermistor (Outdoor temperature)
- ThHo : Thermistor (Heat exchanger out temperature)
- ThHM : Thermistor (Heat exchanger middle temperature)
- ThR : Thermistor (Room temperature)
- ThPI : Thermistor (Pipe temperature)



# INDOOR PRINTED CIRCUIT BOARD CIRCUIT DIAGRAM

Models : AUXG18KRLB  
AUXG22KRLB  
UTG-UKYC-W

**CONTROL UNIT**  
AUXG18KRLB : EZ-01822HSE  
AUXG22KRLB : EZ-0181DHSE



CN8 Thermistor Characteristics.

| Thermistor                | Temperature | ( 0 °C ) | ( 20 °C ) | ( 30 °C ) |
|---------------------------|-------------|----------|-----------|-----------|
| Thermistor ( Room temp. ) |             | 33.6 k Ω | 12.5 k Ω  | 8.0 k Ω   |
|                           |             | 1.1 V    | 2.2 V     | 2.8 V     |

CN32 Thermistor Characteristics.

| Thermistor                | Temperature | ( 0 °C )  | ( 20 °C ) | ( 30 °C ) |
|---------------------------|-------------|-----------|-----------|-----------|
| Thermistor ( Pipe temp. ) |             | 176.0 k Ω | 62.9 k Ω  | 39.6 k Ω  |
|                           |             | 1.1 V     | 2.2 V     | 2.8 V     |

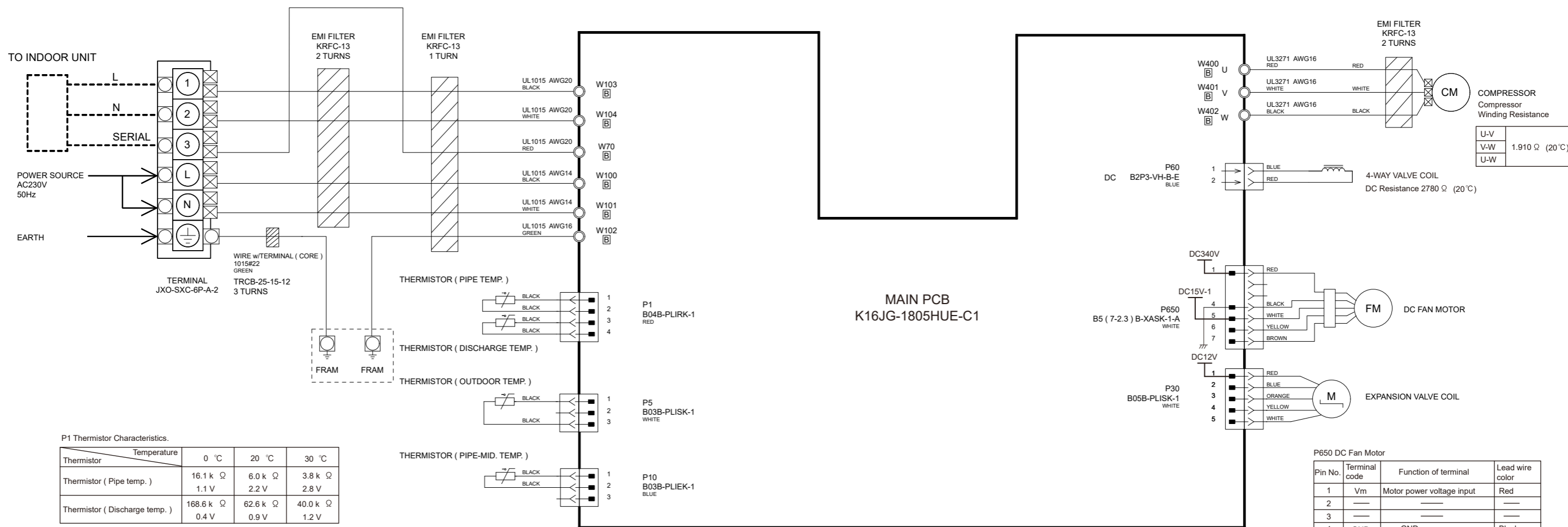
CN370 DC Fan motor

| Pin No. | Terminal code | Function of terminal        | Lead wire color |
|---------|---------------|-----------------------------|-----------------|
| 1       | Vm            | Motor power voltage input   | Red             |
| 2       |               |                             |                 |
| 3       |               |                             |                 |
| 4       | GND           | GND                         | Black           |
| 5       | Vcc           | Control power voltage input | White           |
| 6       | Vsp           | Speed control voltage input | Yellow          |
| 7       | FG            | Revolution pulse output     | Brown           |

# OUTDOOR PRINTED CIRCUIT BOARD CIRCUIT DIAGRAM

Mode : AOYG18KBTB

INVERTER ASSEMBLY  
EZ-018THUE



P1 Thermistor Characteristics.

| Thermistor                     | Temperature | 0 °C      | 20 °C    | 30 °C    |
|--------------------------------|-------------|-----------|----------|----------|
| Thermistor ( Pipe temp. )      | Resistance  | 16.1 k Ω  | 6.0 k Ω  | 3.8 k Ω  |
|                                | Voltage     | 1.1 V     | 2.2 V    | 2.8 V    |
| Thermistor ( Discharge temp. ) | Resistance  | 168.6 k Ω | 62.6 k Ω | 40.0 k Ω |
|                                | Voltage     | 0.4 V     | 0.9 V    | 1.2 V    |

P5 Thermistor Characteristics.

| Thermistor                   | Temperature | 0 °C     | 20 °C    | 30 °C   |
|------------------------------|-------------|----------|----------|---------|
| Thermistor ( Outdoor temp. ) | Resistance  | 35.2 k Ω | 12.6 k Ω | 8.0 k Ω |
|                              | Voltage     | 2.6 V    | 3.8 V    | 4.1 V   |

P10 Thermistor Characteristics.

| Thermistor                     | Temperature | 0 °C     | 20 °C   | 30 °C   |
|--------------------------------|-------------|----------|---------|---------|
| Thermistor ( Pipe-mid. temp. ) | Resistance  | 16.1 k Ω | 6.0 k Ω | 3.8 k Ω |
|                                | Voltage     | 1.1 V    | 2.2 V   | 2.8 V   |

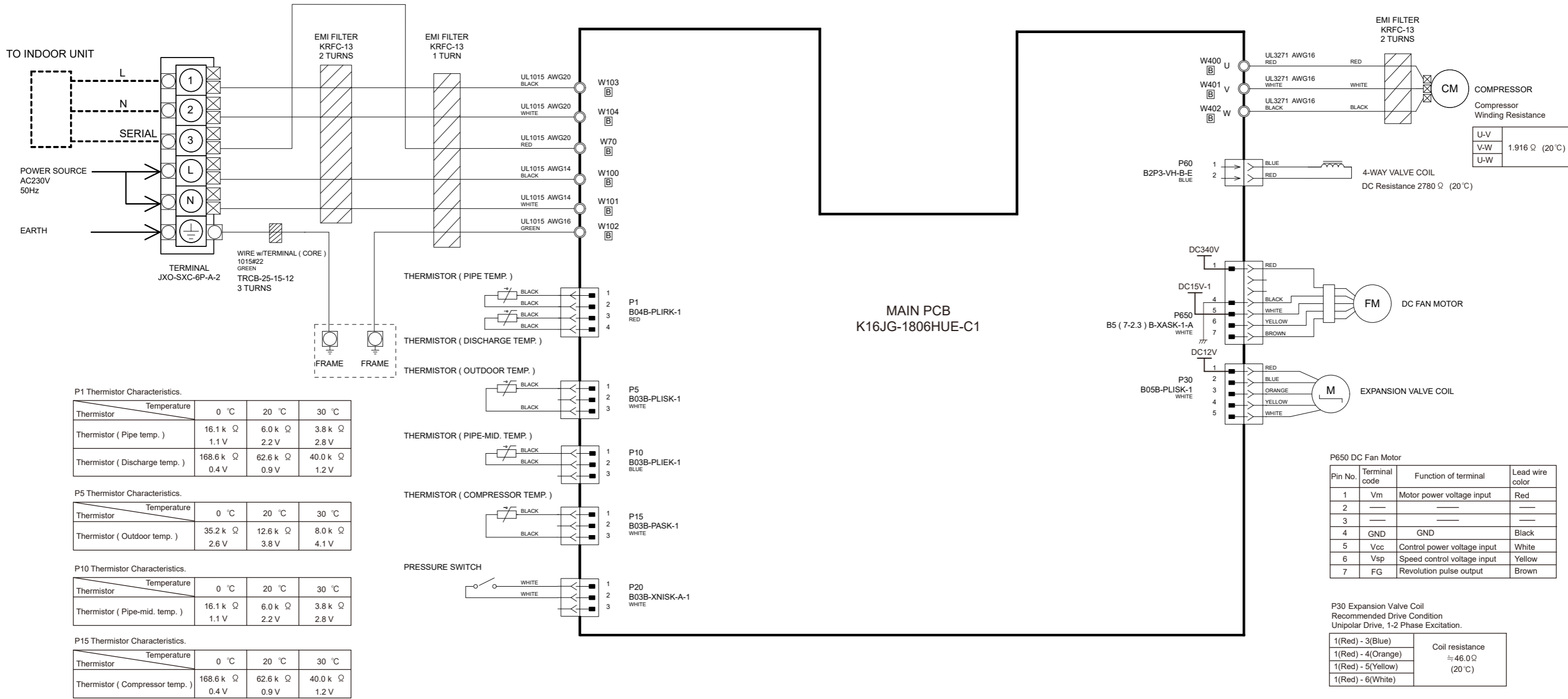
P650 DC Fan Motor

| Pin No. | Terminal code | Function of terminal        | Lead wire color |
|---------|---------------|-----------------------------|-----------------|
| 1       | Vm            | Motor power voltage input   | Red             |
| 2       | —             | —                           | —               |
| 3       | —             | —                           | —               |
| 4       | GND           | GND                         | Black           |
| 5       | Vcc           | Control power voltage input | White           |
| 6       | Vsp           | Speed control voltage input | Yellow          |
| 7       | FG            | Revolution pulse output     | Brown           |

P30 Expansion Valve Coil  
Recommended Drive Condition  
Unipolar Drive, 1-2 Phase Excitation.

|                    |  |
|--------------------|--|
| 1(Red) - 2(Blue)   | Coil resistance<br>≈ 46.0 Ω<br>(20 °C) |
| 1(Red) - 3(Orange) |  |
| 1(Red) - 4(Yellow) |  |
| 1(Red) - 5(White)  |  |

INVERTER ASSEMBLY  
EZ-0118YHUE



P1 Thermistor Characteristics.

| Thermistor                     | Temperature | 0 °C      | 20 °C    | 30 °C    |
|--------------------------------|-------------|-----------|----------|----------|
| Thermistor ( Pipe temp. )      |             | 16.1 k Ω  | 6.0 k Ω  | 3.8 k Ω  |
|                                |             | 1.1 V     | 2.2 V    | 2.8 V    |
| Thermistor ( Discharge temp. ) |             | 168.6 k Ω | 62.6 k Ω | 40.0 k Ω |
|                                |             | 0.4 V     | 0.9 V    | 1.2 V    |

P5 Thermistor Characteristics.

| Thermistor                   | Temperature | 0 °C     | 20 °C    | 30 °C   |
|------------------------------|-------------|----------|----------|---------|
| Thermistor ( Outdoor temp. ) |             | 35.2 k Ω | 12.6 k Ω | 8.0 k Ω |
|                              |             | 2.6 V    | 3.8 V    | 4.1 V   |

P10 Thermistor Characteristics.

| Thermistor                     | Temperature | 0 °C     | 20 °C   | 30 °C   |
|--------------------------------|-------------|----------|---------|---------|
| Thermistor ( Pipe-mid. temp. ) |             | 16.1 k Ω | 6.0 k Ω | 3.8 k Ω |
|                                |             | 1.1 V    | 2.2 V   | 2.8 V   |

P15 Thermistor Characteristics.

| Thermistor                      | Temperature | 0 °C      | 20 °C    | 30 °C    |
|---------------------------------|-------------|-----------|----------|----------|
| Thermistor ( Compressor temp. ) |             | 168.6 k Ω | 62.6 k Ω | 40.0 k Ω |
|                                 |             | 0.4 V     | 0.9 V    | 1.2 V    |

P650 DC Fan Motor

| Pin No. | Terminal code | Function of terminal        | Lead wire color |
|---------|---------------|-----------------------------|-----------------|
| 1       | Vm            | Motor power voltage input   | Red             |
| 2       | —             | —                           | —               |
| 3       | —             | —                           | —               |
| 4       | GND           | GND                         | Black           |
| 5       | Vcc           | Control power voltage input | White           |
| 6       | Vsp           | Speed control voltage input | Yellow          |
| 7       | FG            | Revolution pulse output     | Brown           |

P30 Expansion Valve Coil  
Recommended Drive Condition  
Unipolar Drive, 1-2 Phase Excitation.

|                    |  |
|--------------------|--|
| 1(Red) - 3(Blue)   | Coil resistance<br>≈ 46.0 Ω<br>(20 °C) |
| 1(Red) - 4(Orange) |  |
| 1(Red) - 5(Yellow) |  |
| 1(Red) - 6(White)  |  |

|     |                                  |
|-----|----------------------------------|
| U-V | Compressor<br>Winding Resistance |
| V-W |                                  |
| U-W |                                  |

|                  |                              |
|------------------|------------------------------|
| 4-WAY VALVE COIL | DC Resistance 2780 Ω (20 °C) |
| B2P3-VH-B-E      |                              |

|                    |  |
|--------------------|--|
| 1(Red) - 3(Blue)   | Coil resistance<br>≈ 46.0 Ω<br>(20 °C) |
| 1(Red) - 4(Orange) |  |
| 1(Red) - 5(Yellow) |  |
| 1(Red) - 6(White)  |  |

# Error codes

If you use a wired type remote controller, error codes will appear on the remote controller display. For more information, refer to the installation manual of the remote controller. If you use a wireless remote controller, the lamps on the IR receiver unit will output error codes by way of blinking patterns. See the lamp blinking patterns and error codes in the table below. An error display is displayed only during operation.

| Error display          |                     |                      | Wired remote controller Error code | Description   |
|------------------------|---------------------|----------------------|------------------------------------|---|
| OPERATION lamp (green) | TIMER lamp (orange) | ECONOMY lamp (green) |                                    |   |
| ●(1)                   | ●(1)                | ◇                    | 11                                 | Serial communication error  |
| ●(1)                   | ●(2)                | ◇                    | 12                                 | Wired remote controller communication error   |
| ●(1)                   | ●(5)                | ◇                    | 15                                 | Check run unfinished  |
| ●(1)                   | ●(6)                | ◇                    | 16                                 | Peripheral unit transmission PCB connection error   |
| ●(1)                   | ●(8)                | ◇                    | 18                                 | External communication error  |
| ●(2)                   | ●(1)                | ◇                    | 21                                 | Unit number or Refrigerant circuit address setting error [Simultaneous Multi]   |
| ●(2)                   | ●(2)                | ◇                    | 22                                 | Indoor unit capacity error  |
| ●(2)                   | ●(3)                | ◇                    | 23                                 | Combination error   |
| ●(2)                   | ●(4)                | ◇                    | 24                                 | • Connection unit number error (indoor secondary unit) [Simultaneous Multi]<br>• Connection unit number error (indoor unit or branch unit) [Flexible Multi] |
| ●(2)                   | ●(6)                | ◇                    | 26                                 | Indoor unit address setting error   |
| ●(2)                   | ●(7)                | ◇                    | 27                                 | Primary unit, secondary unit setup error [Simultaneous Multi]   |
| ●(2)                   | ●(9)                | ◇                    | 29                                 | Connection unit number error in wired remote controller system  |
| ●(3)                   | ●(1)                | ◇                    | 31                                 | Power supply interruption error   |
| ●(3)                   | ●(2)                | ◇                    | 32                                 | Indoor unit PCB model information error   |
| ●(3)                   | ●(5)                | ◇                    | 35                                 | Manual auto switch error  |
| ●(3)                   | ●(9)                | ◇                    | 39                                 | Indoor unit power supply error for fan motor  |
| ●(3)                   | ●(10)               | ◇                    | 3A                                 | Indoor unit communication circuit (wired remote controller) error   |
| ●(4)                   | ●(1)                | ◇                    | 41                                 | Room temp. sensor error   |
| ●(4)                   | ●(2)                | ◇                    | 42                                 | Indoor unit Heat Ex. Middle temp. sensor error  |
| ●(4)                   | ●(4)                | ◇                    | 44                                 | Human sensor error  |
| ●(5)                   | ●(1)                | ◇                    | 51                                 | Indoor unit fan motor error   |
| ●(5)                   | ●(3)                | ◇                    | 53                                 | Drain pump error  |
| ●(5)                   | ●(7)                | ◇                    | 57                                 | Damper error  |
| ●(5)                   | ●(15)               | ◇                    | 5U                                 | Indoor unit error   |
| ●(6)                   | ●(1)                | ◇                    | 61                                 | Outdoor unit reverse/missing phase and wiring error   |
| ●(6)                   | ●(2)                | ◇                    | 62                                 | Outdoor unit main PCB model information error or communication error  |
| ●(6)                   | ●(3)                | ◇                    | 63                                 | Inverter error  |
| ●(6)                   | ●(4)                | ◇                    | 64                                 | Active filter error, PFC circuit error  |
| ●(6)                   | ●(5)                | ◇                    | 65                                 | Trip terminal L error   |
| ●(6)                   | ●(8)                | ◇                    | 68                                 | Outdoor unit rush current limiting resistor temp. rise error  |
| ●(6)                   | ●(10)               | ◇                    | 6A                                 | Display PCB microcomputers communication error  |

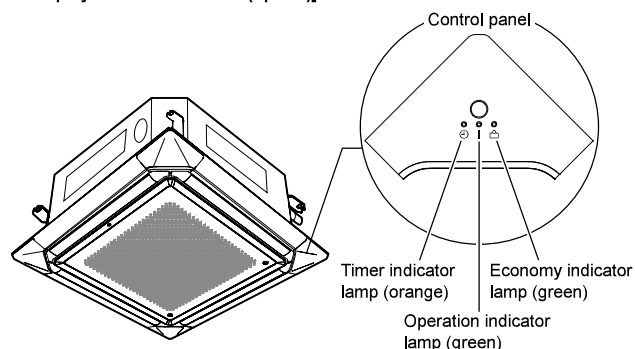
| Error display          |                     |                      | Wired remote controller Error code | Description   |
|------------------------|---------------------|----------------------|------------------------------------|---|
| OPERATION lamp (green) | TIMER lamp (orange) | ECONOMY lamp (green) |                                    |   |
| ●(7)                   | ●(1)                | ◇                    | 71                                 | Discharge temp. sensor error  |
| ●(7)                   | ●(2)                | ◇                    | 72                                 | Compressor temp. sensor error   |
| ●(7)                   | ●(3)                | ◇                    | 73                                 | Outdoor unit Heat Ex. liquid temp. sensor error   |
| ●(7)                   | ●(4)                | ◇                    | 74                                 | Outdoor temp. sensor error  |
| ●(7)                   | ●(5)                | ◇                    | 75                                 | Suction Gas temp. sensor error  |
| ●(7)                   | ●(6)                | ◇                    | 76                                 | • 2-way valve temp. sensor error<br>• 3-way valve temp. sensor error                                  |
| ●(7)                   | ●(7)                | ◇                    | 77                                 | Heat sink temp. sensor error  |
| ●(8)                   | ●(2)                | ◇                    | 82                                 | • Sub-cool Heat Ex. gas inlet temp. sensor error<br>• Sub-cool Heat Ex. gas outlet temp. sensor error |
| ●(8)                   | ●(3)                | ◇                    | 83                                 | Liquid pipe temp. sensor error  |
| ●(8)                   | ●(4)                | ◇                    | 84                                 | Current sensor error  |
| ●(8)                   | ●(6)                | ◇                    | 86                                 | • Discharge pressure sensor error<br>• Suction pressure sensor error<br>• High pressure switch error  |
| ●(9)                   | ●(4)                | ◇                    | 94                                 | Trip detection  |
| ●(9)                   | ●(5)                | ◇                    | 95                                 | Compressor rotor position detection error (permanent stop)  |
| ●(9)                   | ●(7)                | ◇                    | 97                                 | Outdoor unit fan motor 1 error  |
| ●(9)                   | ●(8)                | ◇                    | 98                                 | Outdoor unit fan motor 2 error  |
| ●(9)                   | ●(9)                | ◇                    | 99                                 | 4-way valve error   |
| ●(9)                   | ●(10)               | ◇                    | 9A                                 | Coil (expansion valve) error  |
| ●(10)                  | ●(1)                | ◇                    | A1                                 | Discharge temp. error   |
| ●(10)                  | ●(3)                | ◇                    | A3                                 | Compressor temp. error  |
| ●(10)                  | ●(4)                | ◇                    | A4                                 | High pressure error   |
| ●(10)                  | ●(5)                | ◇                    | A5                                 | Low pressure error  |
| ●(13)                  | ●(2)                | ◇                    | J2                                 | Branch boxes error [Flexible Multi]   |

Display mode ● : 0.5s ON / 0.5s OFF

◇ : 0.1s ON / 0.1s OFF

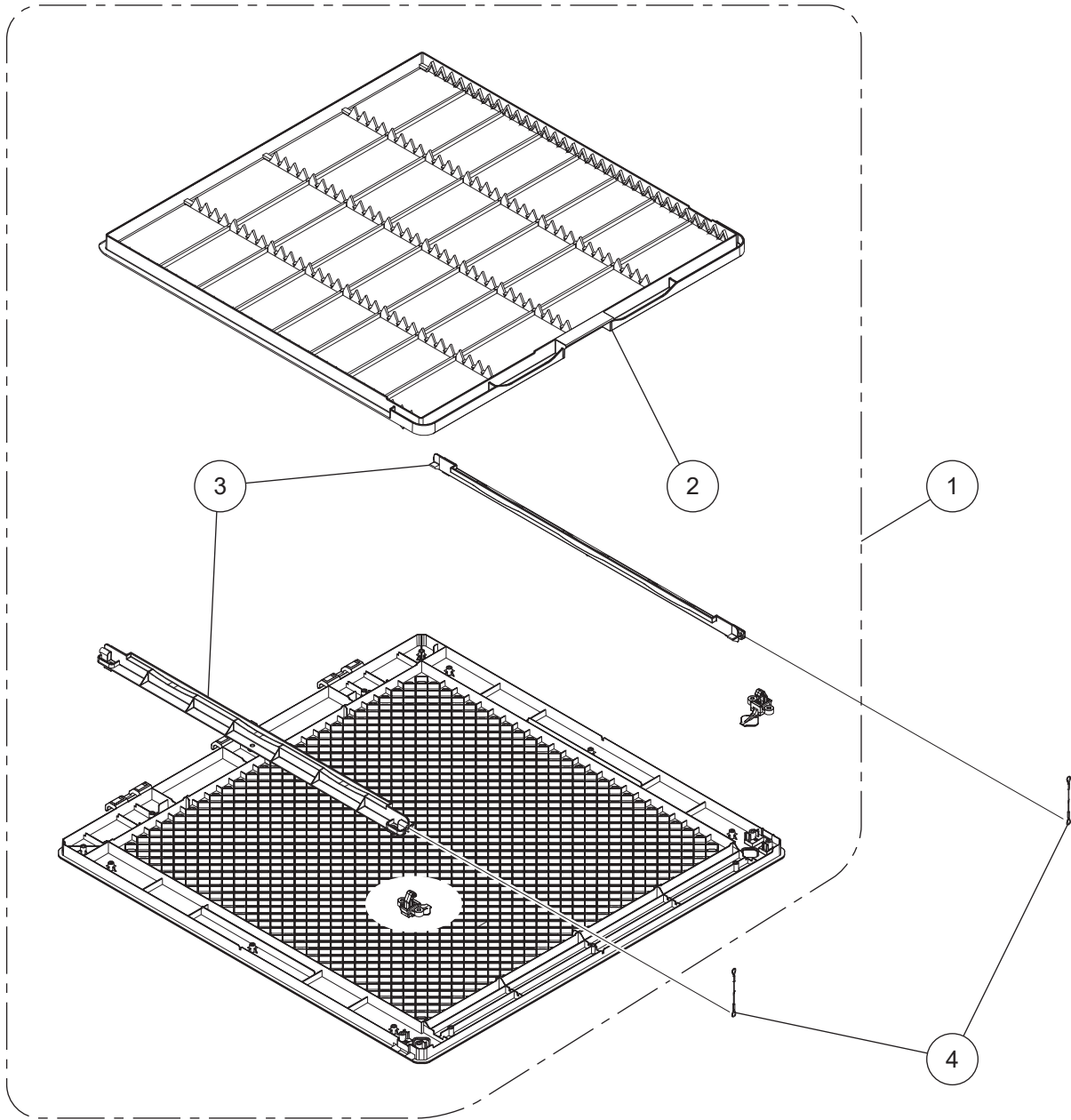
( ) : Number of flashing

[Error display on the indoor unit (option)]



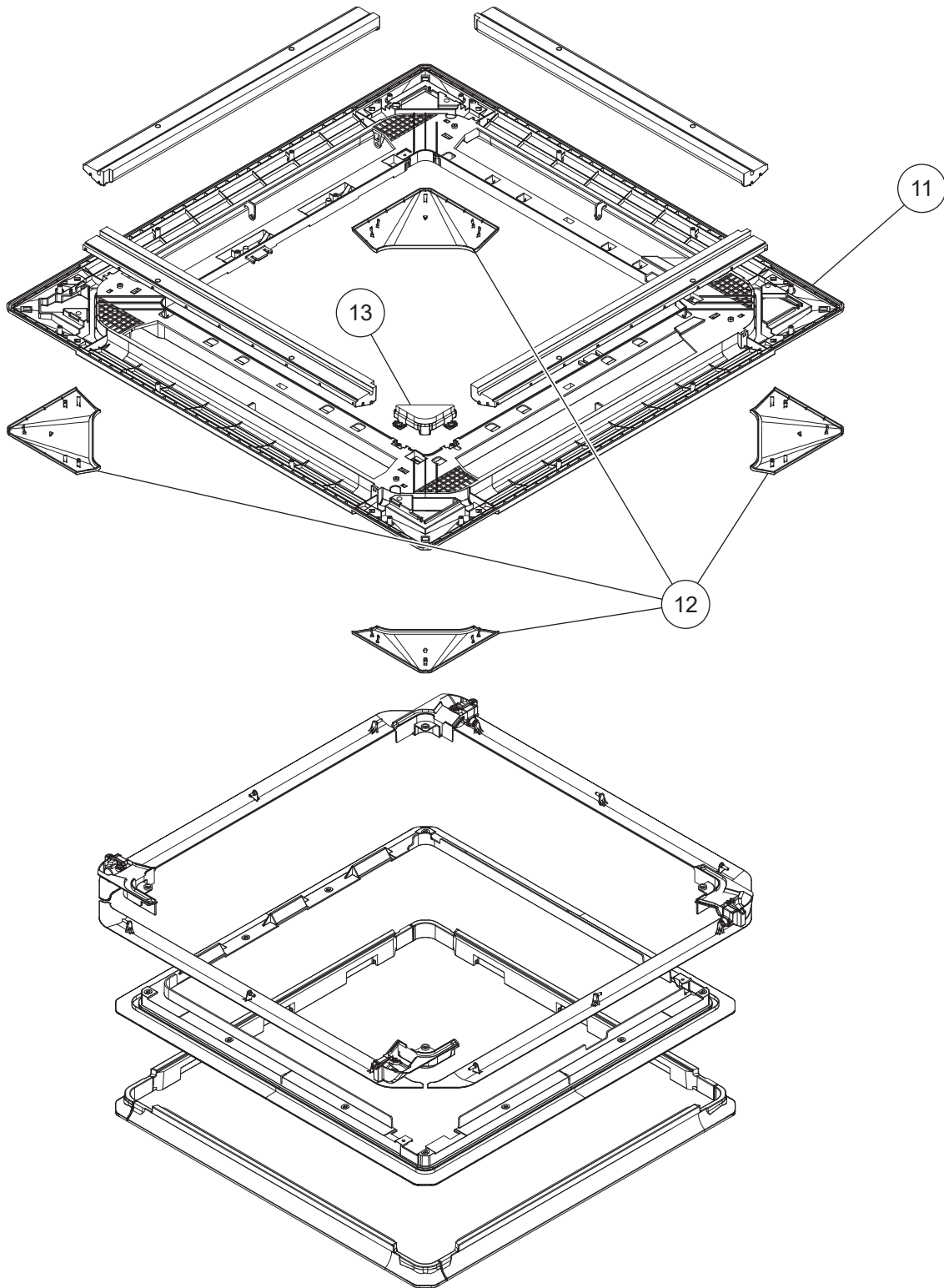
# Parts

DECORATION PANEL  
UTG-UKYC-W



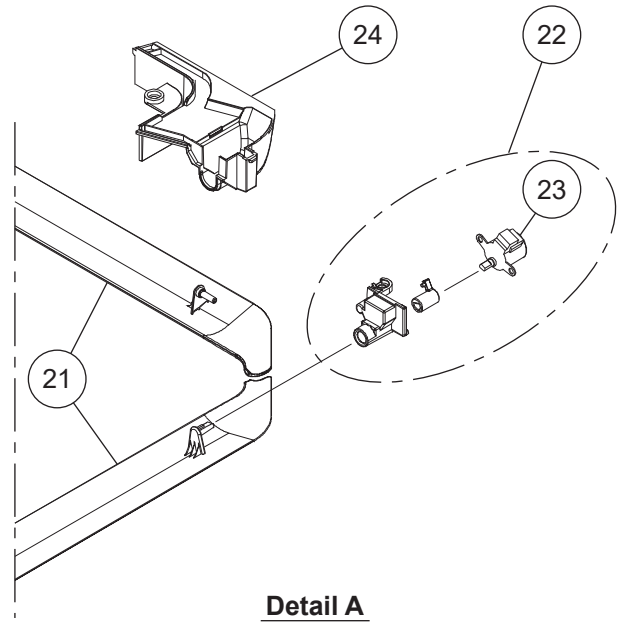
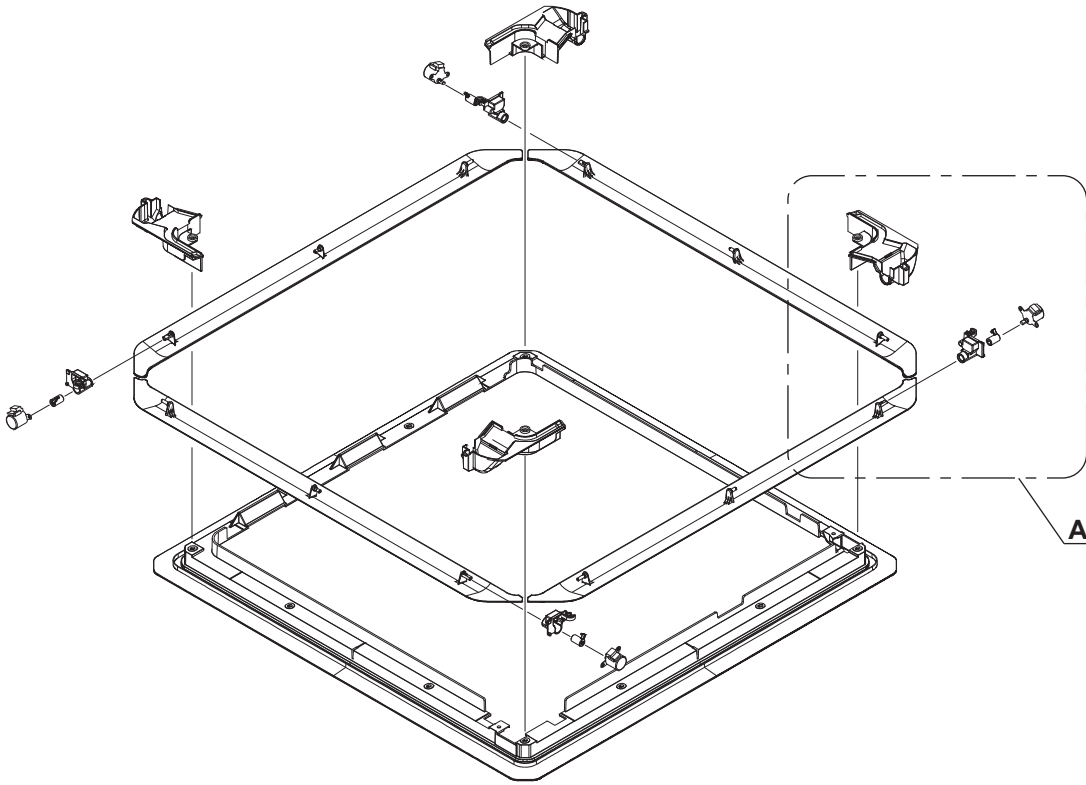
| Ref No. | Description        | Parts No.  |
|---------|--------------------|------------|
| 1       | Intake Grille Assy | 9381691005 |
| 2       | Long Life Filter   | 9378252028 |
| 3       | Filter Guide       | 9378253018 |
| 4       | Hook Wire          | 9378597020 |

DECORATION PANEL  
UTG-UKYC-W



| Ref No. | Description       | Parts No.  |
|---------|-------------------|------------|
| 11      | Decoration Panel  | 9381352005 |
| 12      | Corner Panel Assy | 9381711000 |
| 13      | Drain Cover Assy  | 9381713004 |

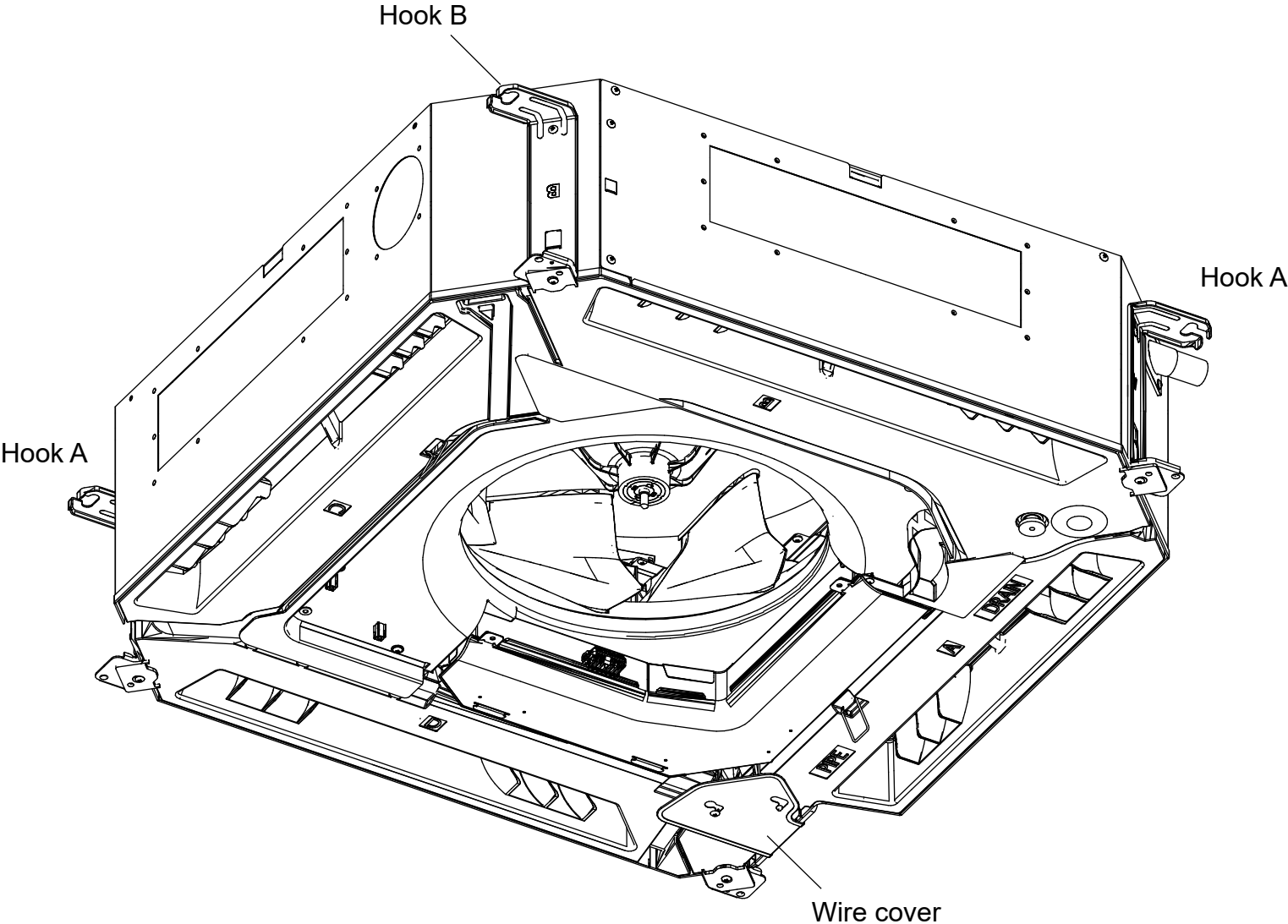
DECORATION PANEL  
UTG-UKYC-W



| Ref No. | Description       | Parts No.  |
|---------|-------------------|------------|
| 21      | Louver Assy       | 9381693009 |
| 22      | Motor Case Assy   | 9381712007 |
| 23      | Step Motor        | 9900885007 |
| 24      | Motor Cover       | 9381354009 |
| ---     | Wire (Step Motor) | 9710175008 |

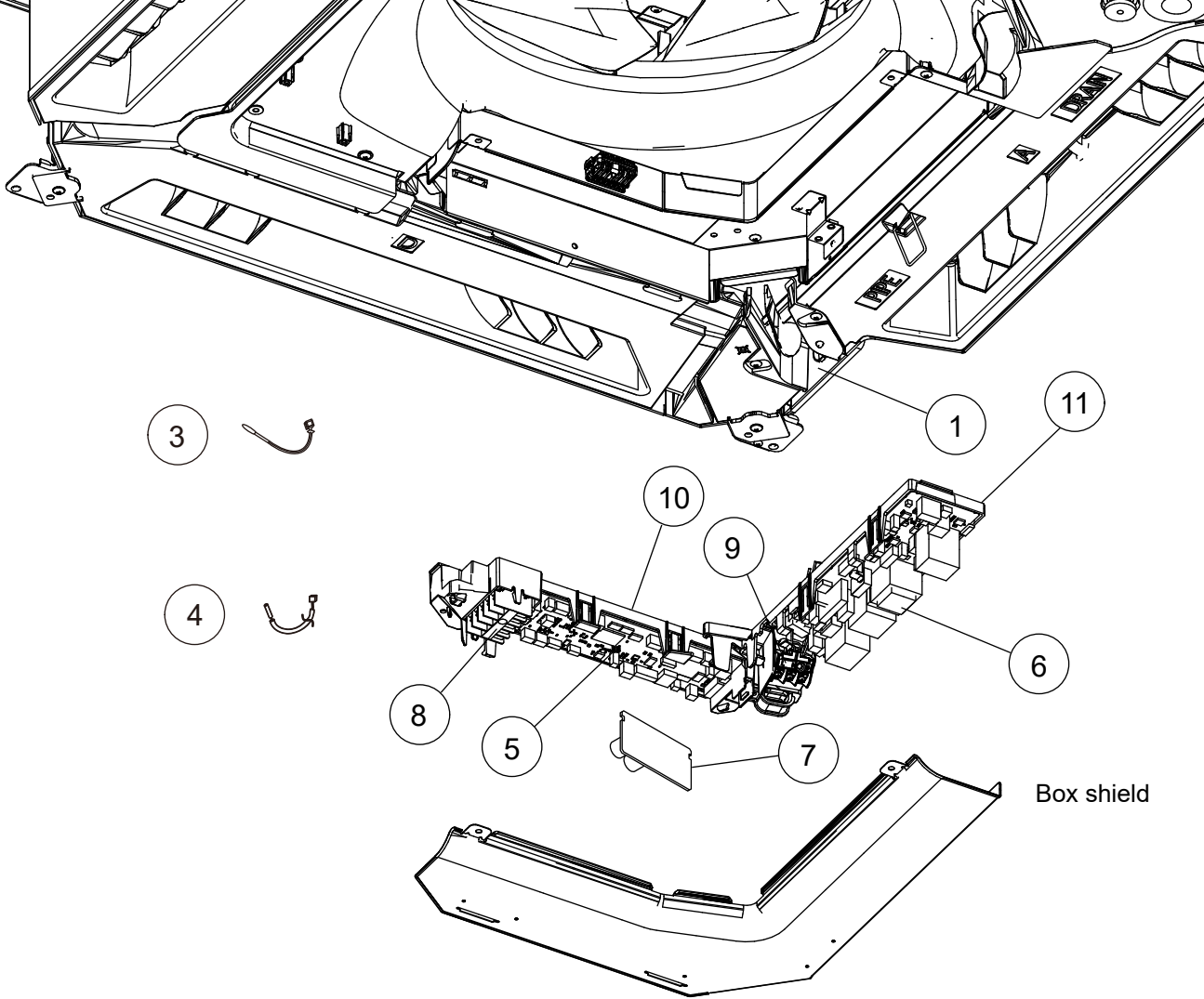
# PARTS

INDOOR UNIT  
AUXG18KRLB  
AUXG22KRLB

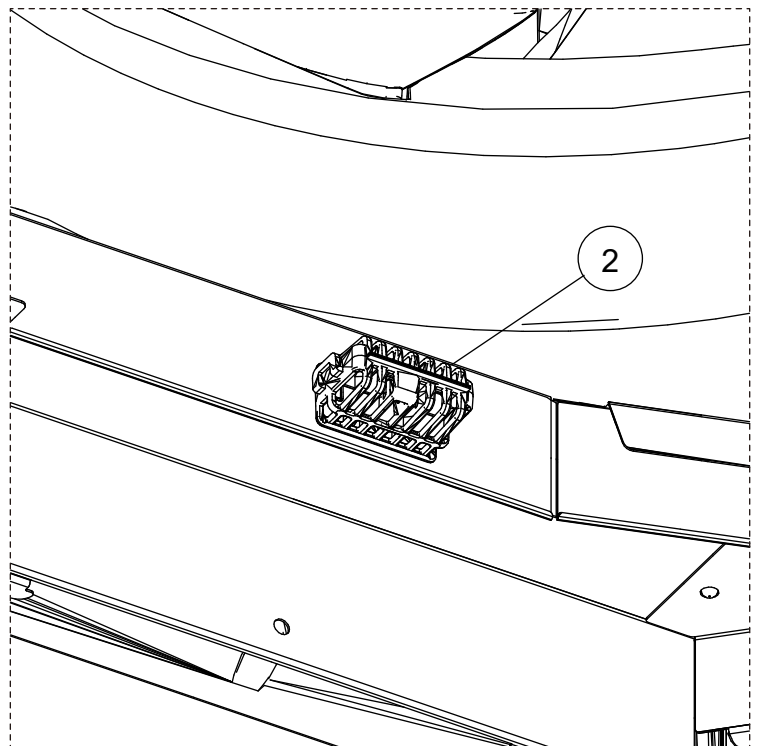




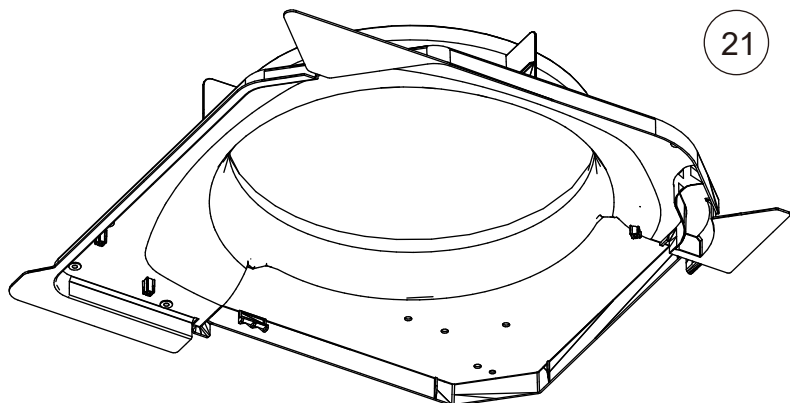
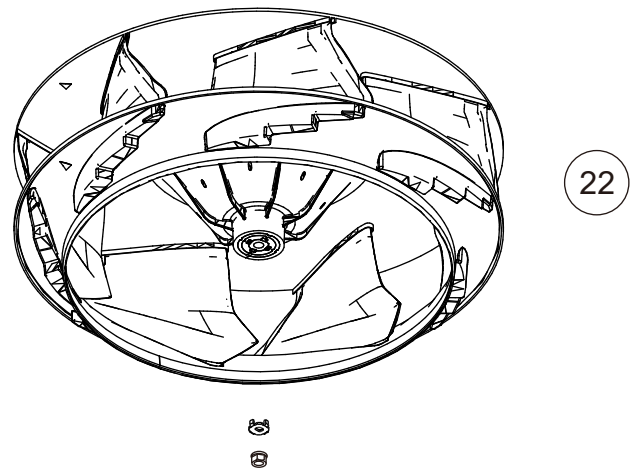
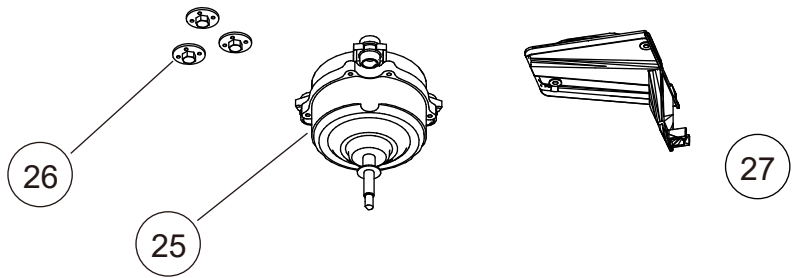
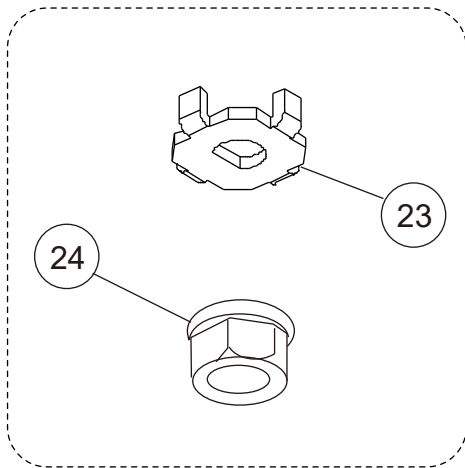
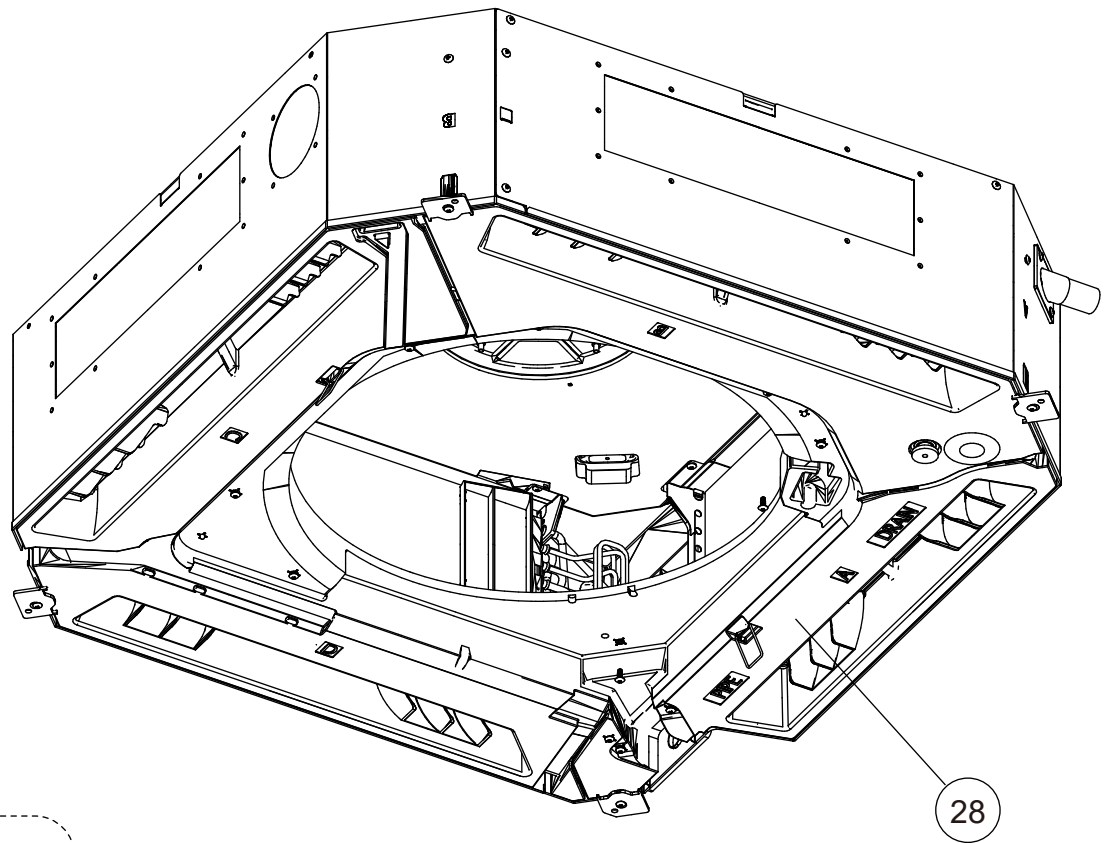
INDOOR UNIT  
 AUXG18KRLB  
 AUXG22KRLB



| Ref. | Description            | Part number |
|------|------------------------|-------------|
| 1    | Cable guide            | 9381376001  |
| 2    | Room thermistor Holder | 9381348008  |
| 3    | Room thermistor        | 9900822002  |
| 4    | Pipe Thermistor        | 9900942014  |
| 5    | Main PCB (AUXG18KRLB)  | 9710995835  |
| 5    | Main PCB (AUXG22KRLB)  | 9710995712  |
| 6    | Power PCB              | 9710022005  |
| 7    | PCB (Non-polar 2-wire) | 9710019005  |
| 8    | Remote terminal 5P     | 9900896003  |
| 9    | Power Terminal 3P      | 9900720032  |
| 10   | Main PCB holder        | 9381350001  |
| 11   | Power PCB Holder       | 9381349005  |

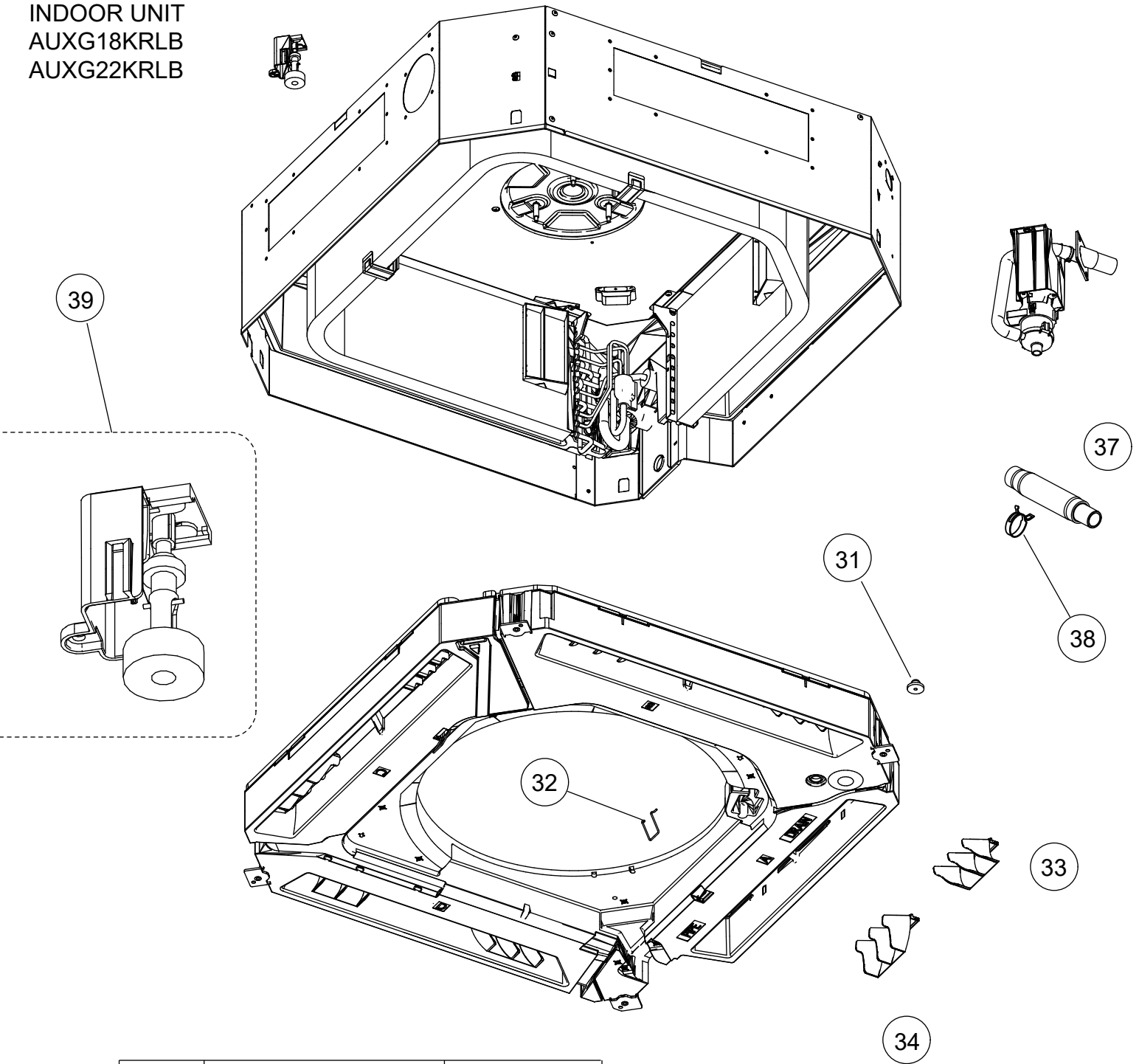


INDOOR UNIT  
 AUXG18KRLB  
 AUXG22KRLB

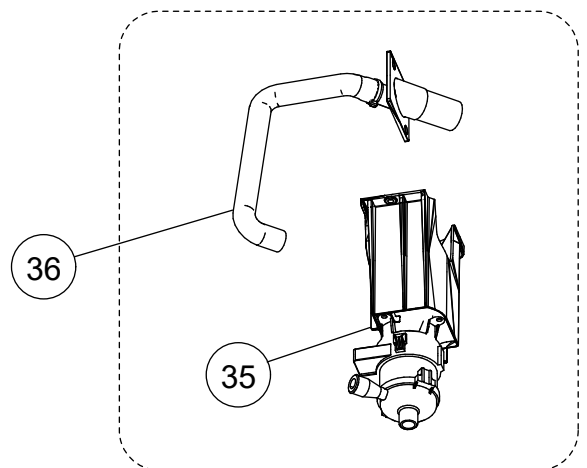


| Ref. | Description        | Part number |
|------|--------------------|-------------|
| 21   | Bellmouth          | 9381484003  |
| 22   | Turbo fan assy     | 9381303007  |
| 23   | Turbo Fan Washer   | 9378394018  |
| 24   | Nut                | 9356998009  |
| 25   | Brushless motor    | 9603443009  |
| 26   | Special Nut        | 9378388017  |
| 27   | Motor Wire Holder  | 9381351008  |
| 28   | Drain pan sub assy | 9381789009  |

INDOOR UNIT  
 AUXG18KRLB  
 AUXG22KRLB

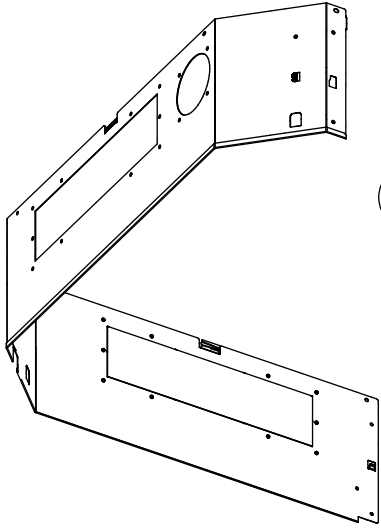


| Ref. | Description           | Part number |
|------|-----------------------|-------------|
| 31   | Drain Cap             | 9375502010  |
| 32   | Panel Hook            | 9375671013  |
| 33   | Vane L                | 9381745012  |
| 34   | Vane R                | 9381744008  |
| 35   | Drain Pump Sub Assy   | 9381793006  |
| 36   | Drain Port Sub Assy   | 9381788002  |
| 37   | Drain Hose            | 9379665001  |
| 38   | Hose Band             | 9379757010  |
| 39   | Float Switch Sub Assy | 9381794003  |



INDOOR UNIT  
 AUXG18KRLB  
 AUXG22KRLB

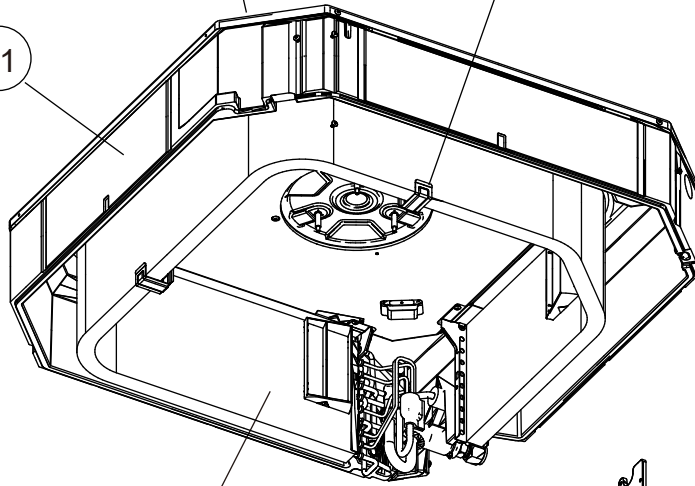
Cabinet B sub assy



Top plate assy

Evaporator holder

41



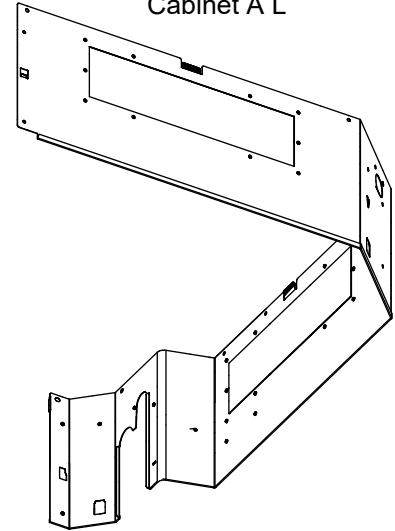
42

Pipe cover



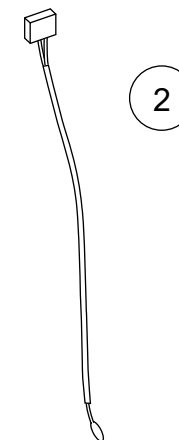
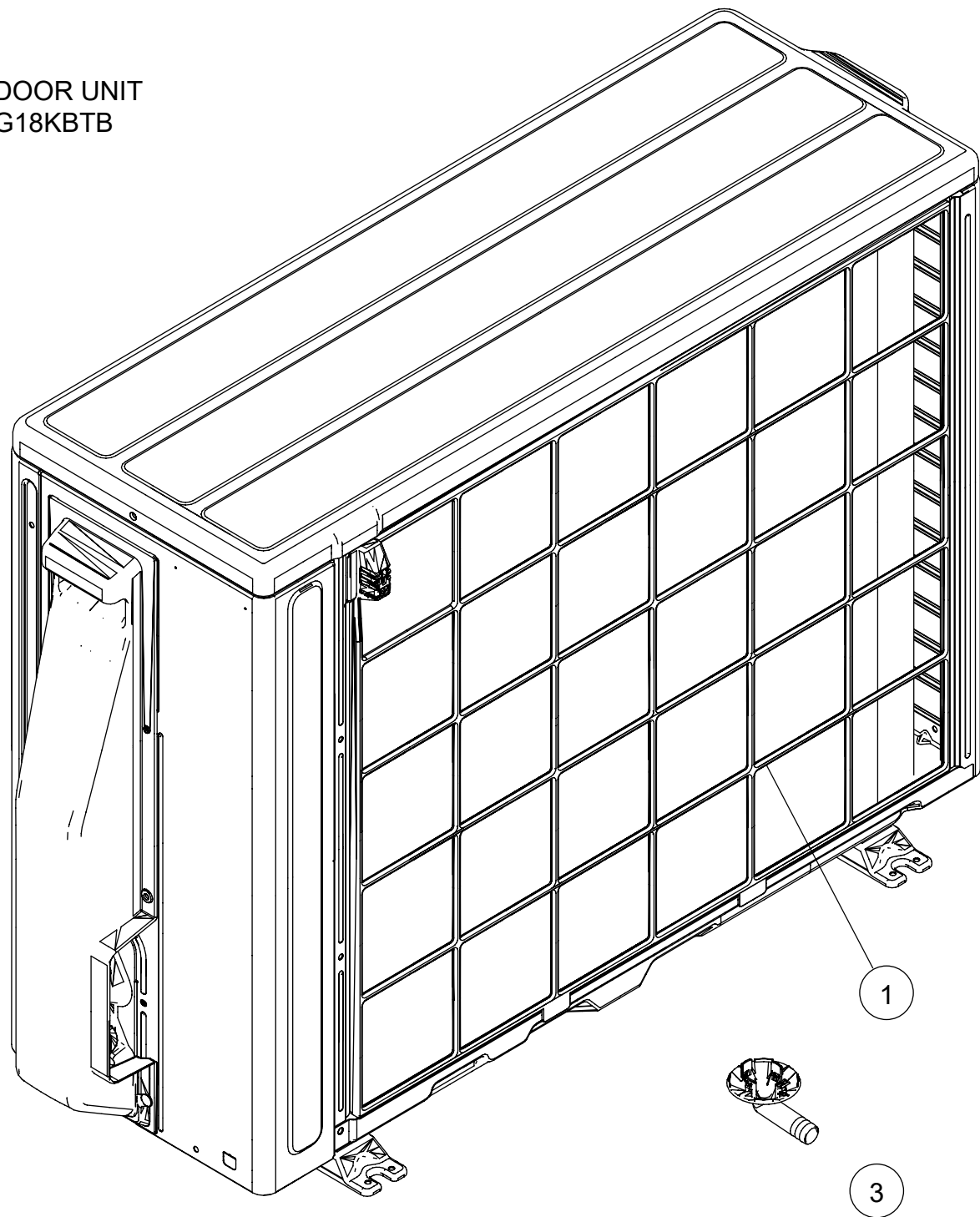
43

Cabinet A L



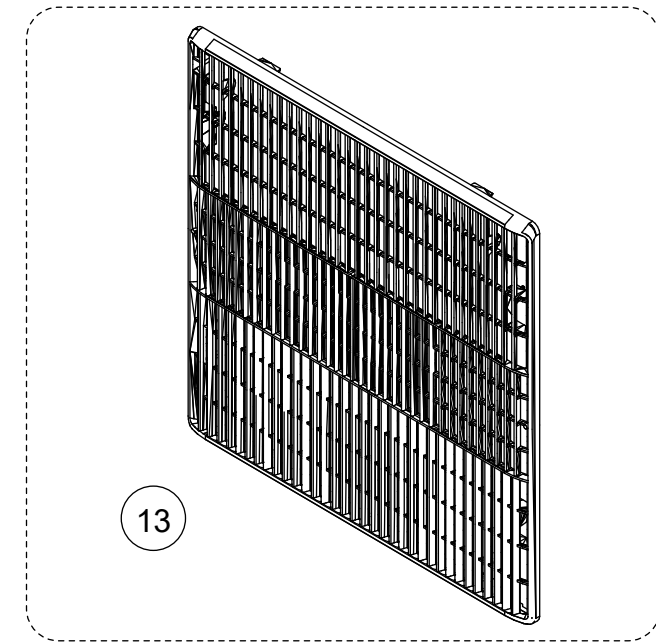
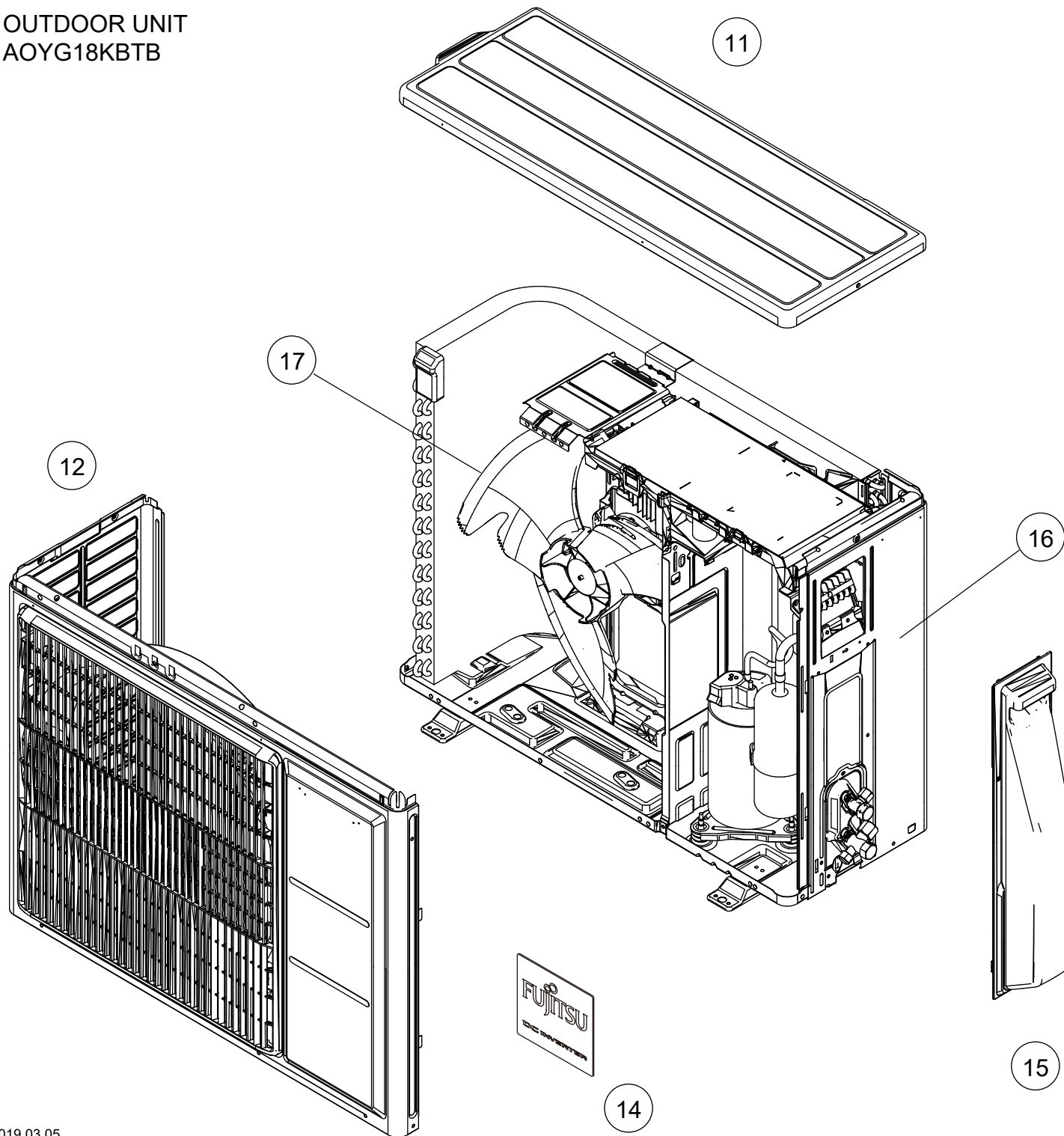
| Ref. | Description             | Part number |
|------|-------------------------|-------------|
| 41   | Insulation Box Sub Assy | 9381787012  |
| 42   | Evaporator Total Assy   | 9378580480  |
| 43   | Wind Guide Board        | 9382125004  |

OUTDOOR UNIT  
AOYG18KBTB



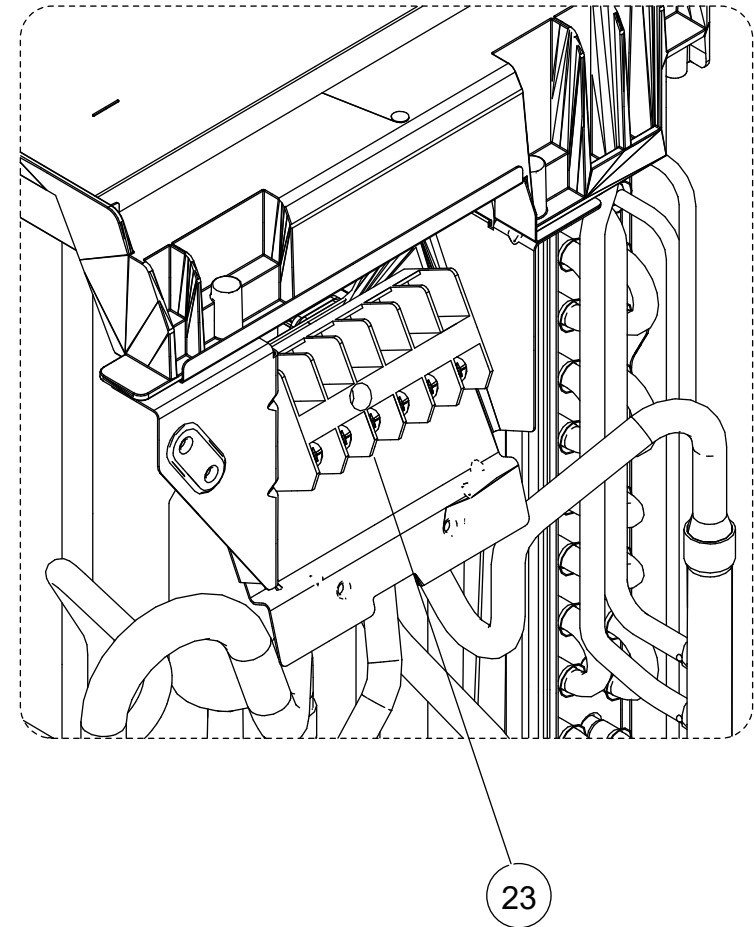
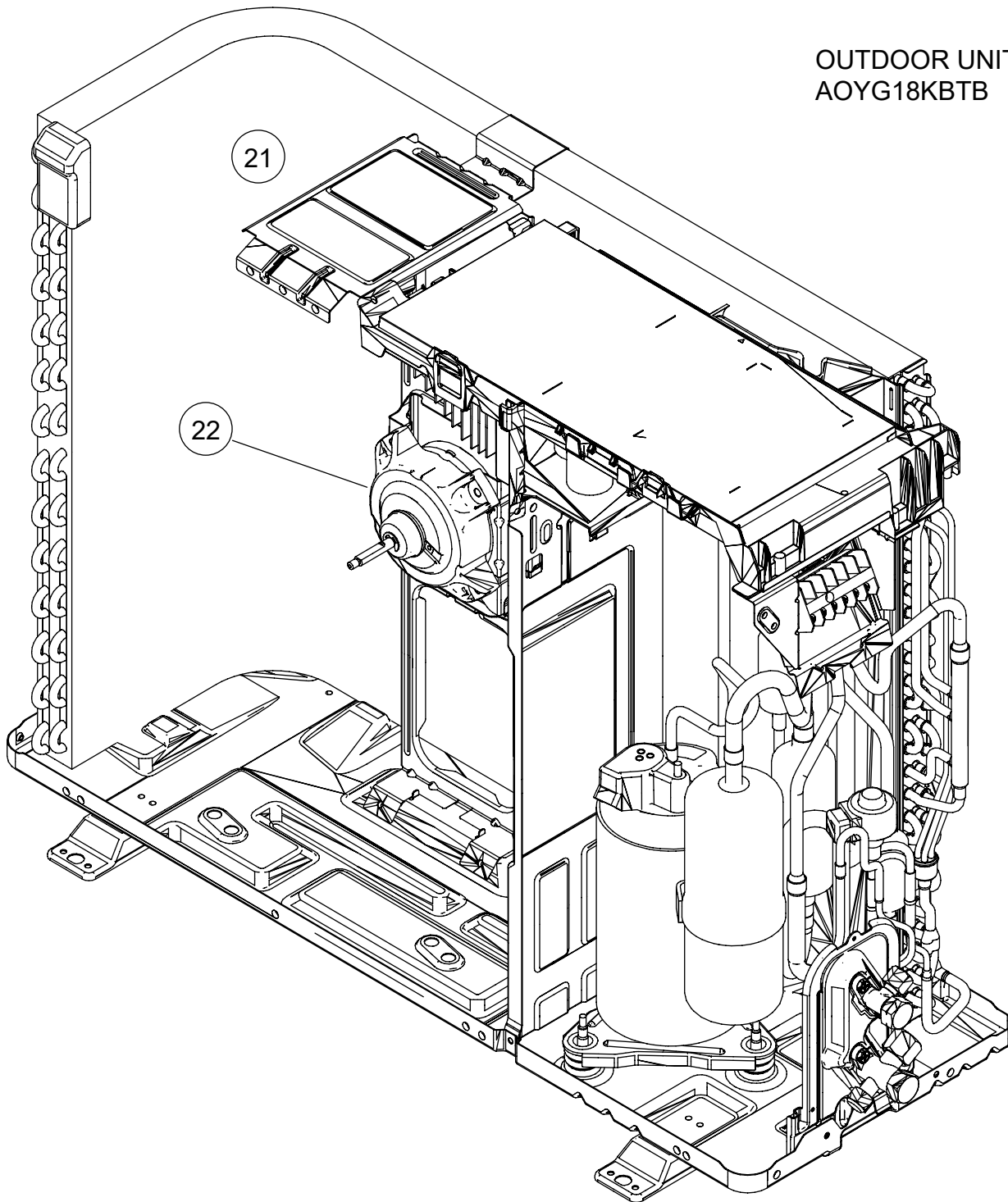
| Ref. | Description         | Part number |
|------|---------------------|-------------|
| 1    | Protective net assy | 9322811028  |
| 2    | Outdoor thermistor  | 9900565060  |
| 3    | Drain pipe          | 9322144003  |

OUTDOOR UNIT  
AOYG18KBTB



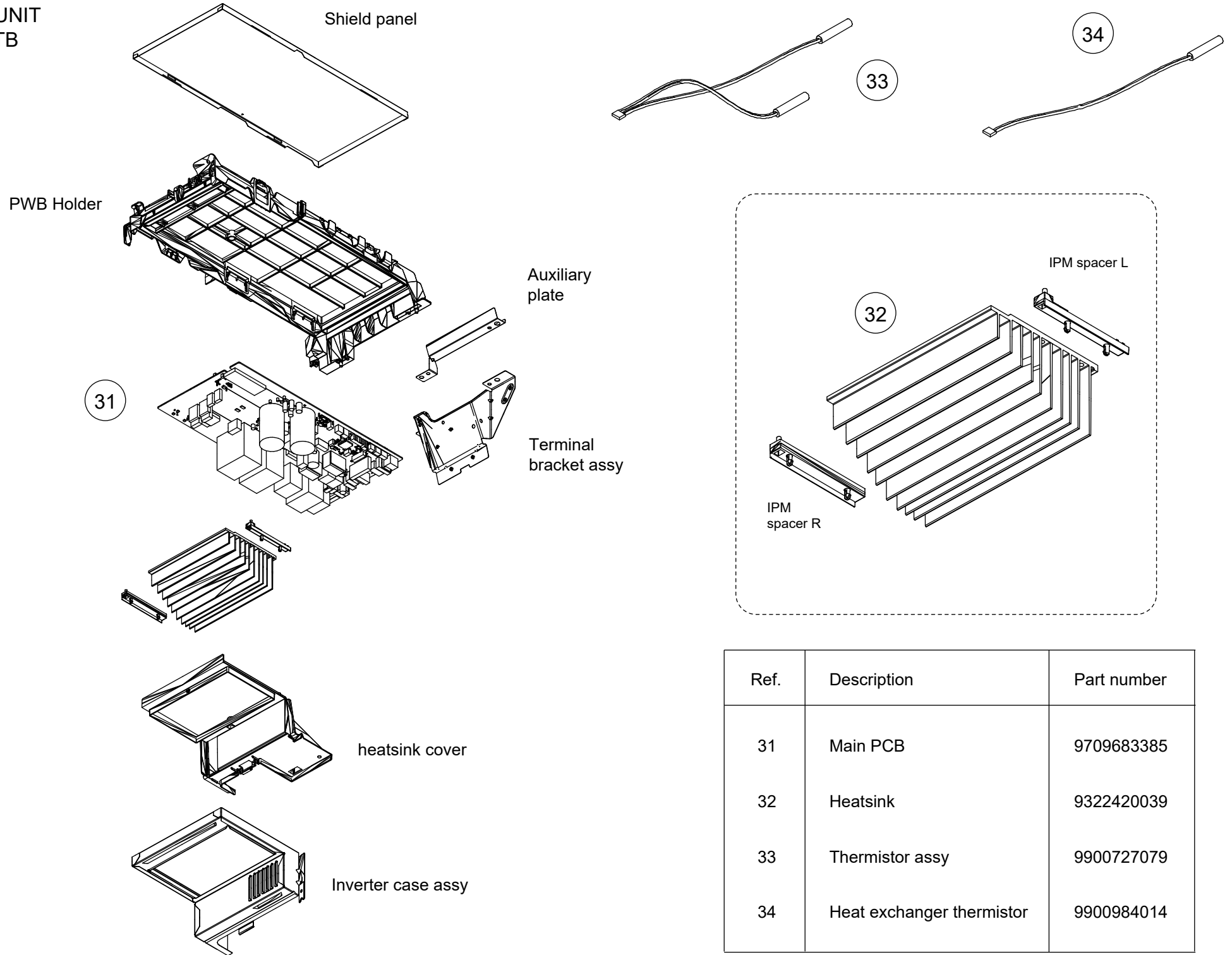
| Ref. | Description        | Part number |
|------|--------------------|-------------|
| 11   | Top panel assy     | 9322556028  |
| 12   | Front panel assy   | 9322555021  |
| 13   | Blow grille        | 9322149008  |
| 14   | Emblem             | 9319151007  |
| 15   | Switch cover assy  | 9322570024  |
| 16   | Cabinet right assy | 9322552099  |
| 17   | Propeller fan      | 9322150004  |

OUTDOOR UNIT  
AOYG18KBTB



| Ref. | Description        | Part number |
|------|--------------------|-------------|
| 21   | Motor bracket assy | 9322553027  |
| 22   | Brushless motor    | 9603601003  |
| 23   | Terminal           | 9900435028  |

OUTDOOR UNIT  
AOYG18KBTB

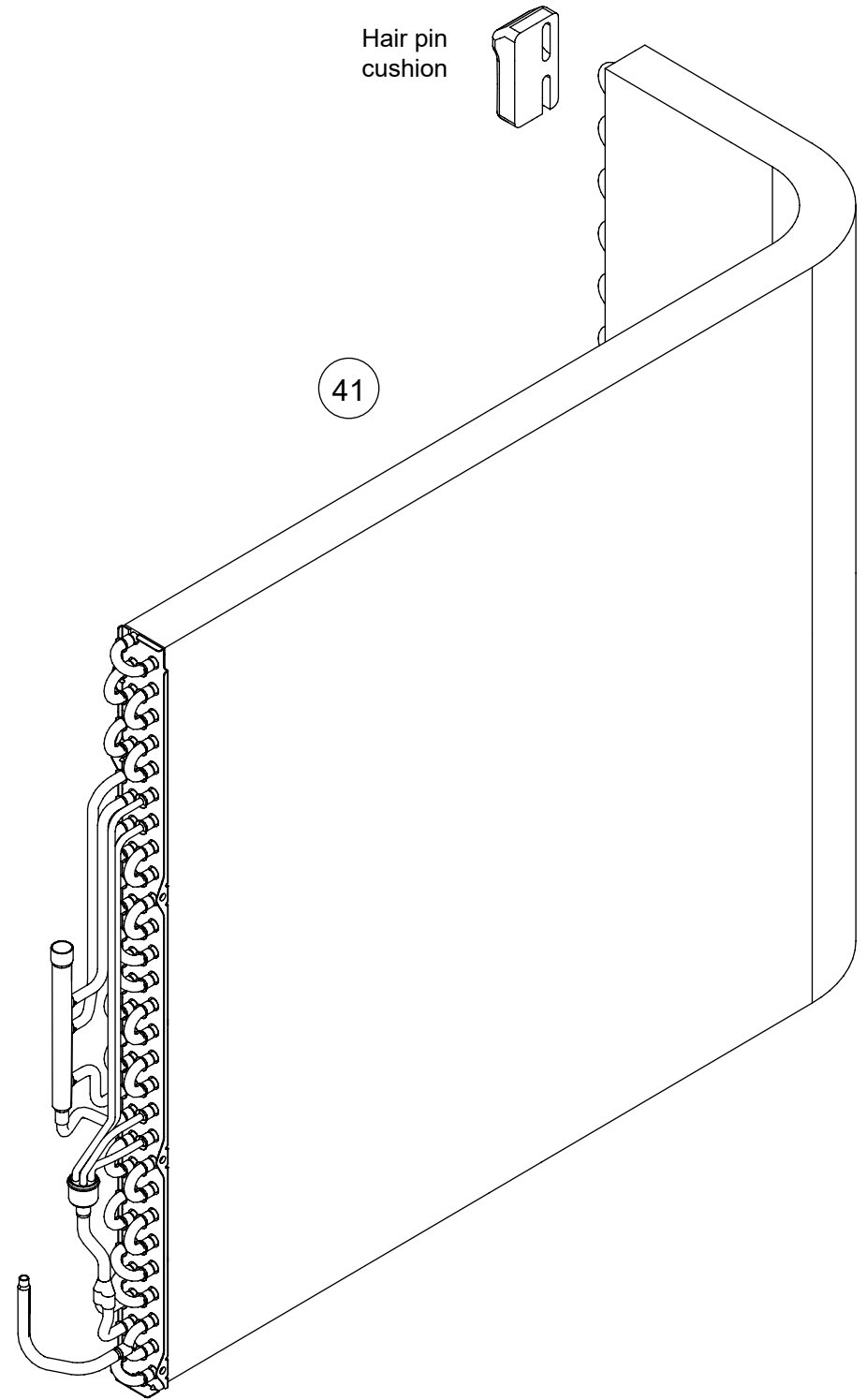
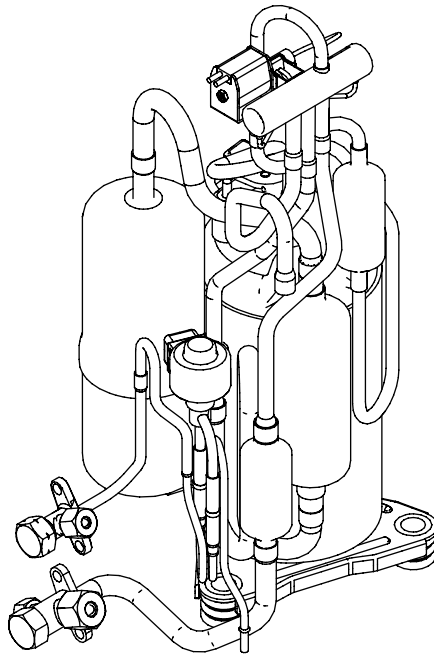


| Ref. | Description               | Part number |
|------|---------------------------|-------------|
| 31   | Main PCB                  | 9709683385  |
| 32   | Heatsink                  | 9322420039  |
| 33   | Thermistor assy           | 9900727079  |
| 34   | Heat exchanger thermistor | 9900984014  |



OUTDOOR UNIT  
AOYG18KBTB

| Ref. | Description   | Part number |
|------|---|-------------|
| 41   | Heat exchanger unit<br>(Condenser total assy+<br>Thermistor holder pipe+<br>Hair pin cushion) | 9323834194  |
| -    | S-insulator B   | 9322500007  |
| -    | S-insulator F   | 9322847003  |
| -    | S-insulator H   | 9322501004  |
| -    | S-insulator V   | 9323045002  |

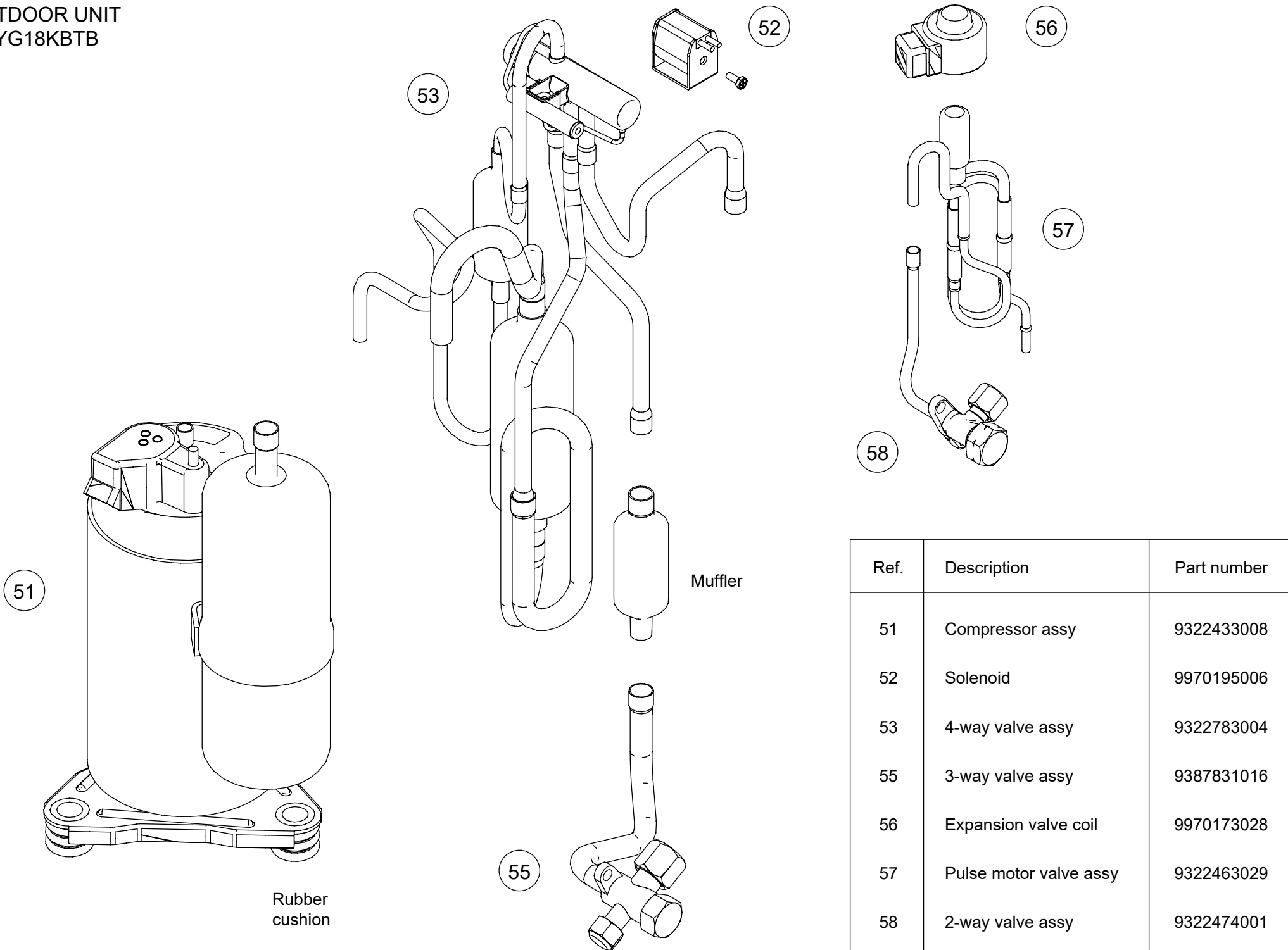


Hair pin  
cushion



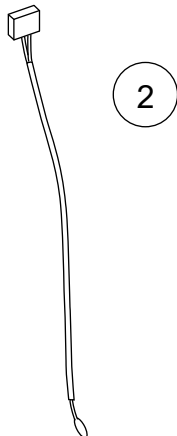
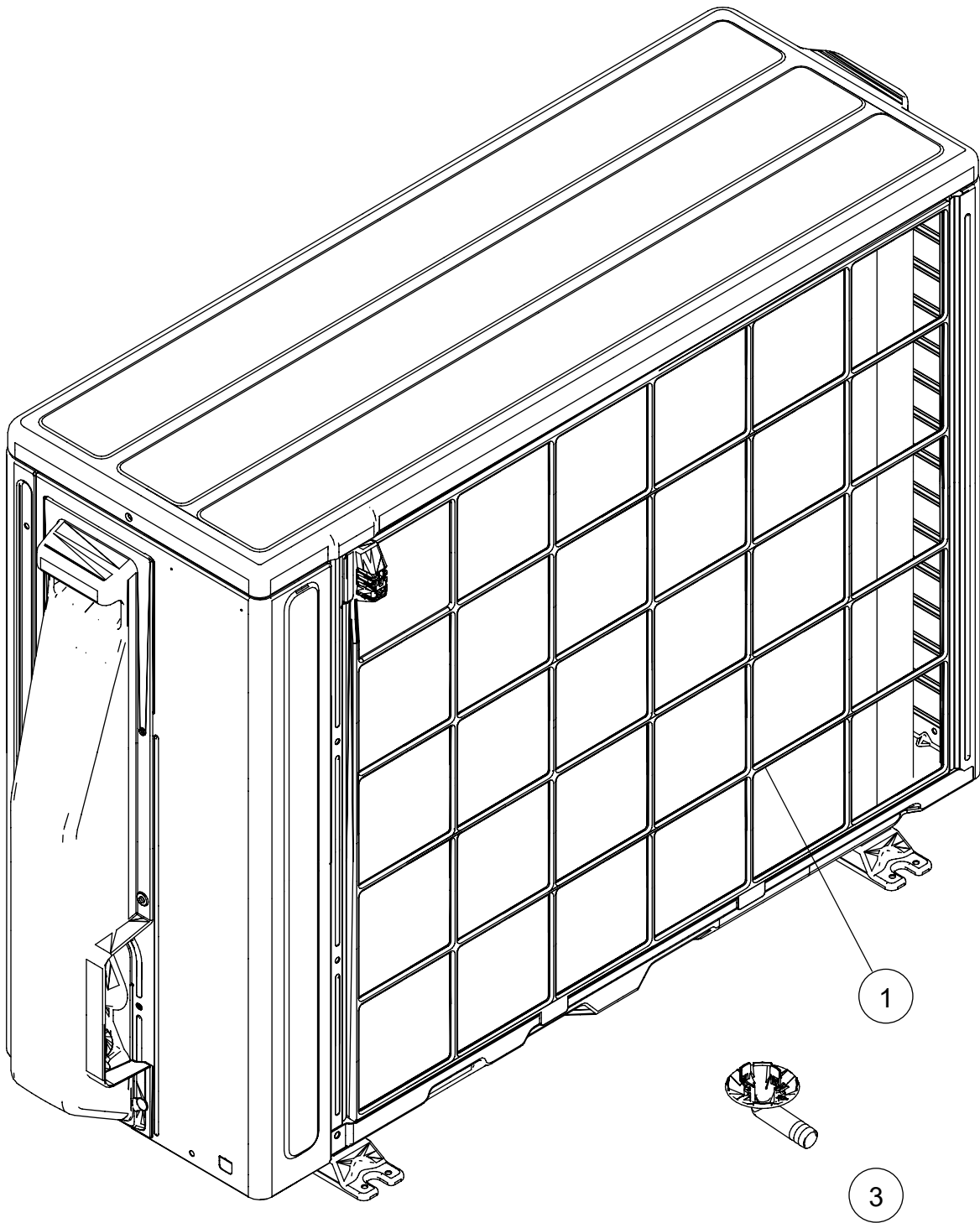
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OUTDOOR UNIT  
AOYG18KBTB



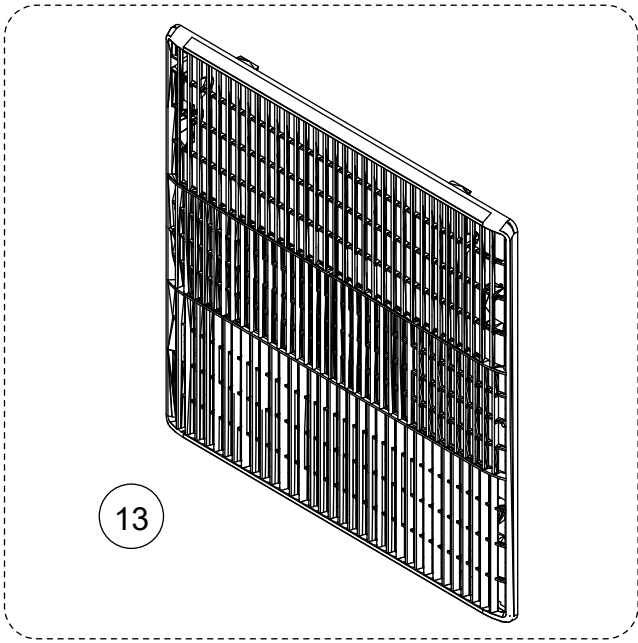
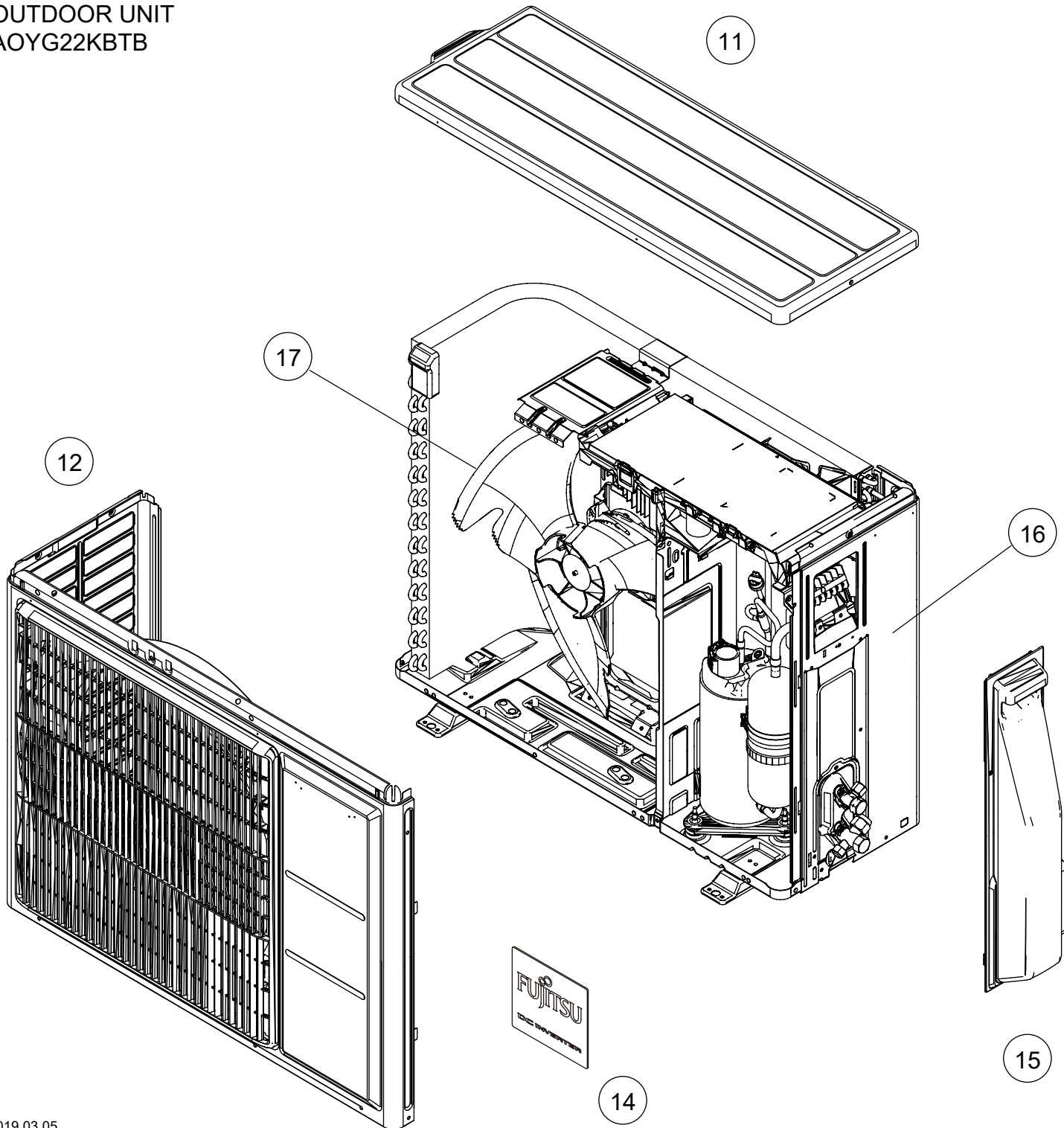
| Ref. | Description            | Part number |
|------|------------------------|-------------|
| 51   | Compressor assy        | 9322433008  |
| 52   | Solenoid               | 9970195006  |
| 53   | 4-way valve assy       | 9322783004  |
| 55   | 3-way valve assy       | 9387831016  |
| 56   | Expansion valve coil   | 9970173028  |
| 57   | Pulse motor valve assy | 9322463029  |
| 58   | 2-way valve assy       | 9322474001  |

OUTDOOR UNIT  
AOYG22KBTB



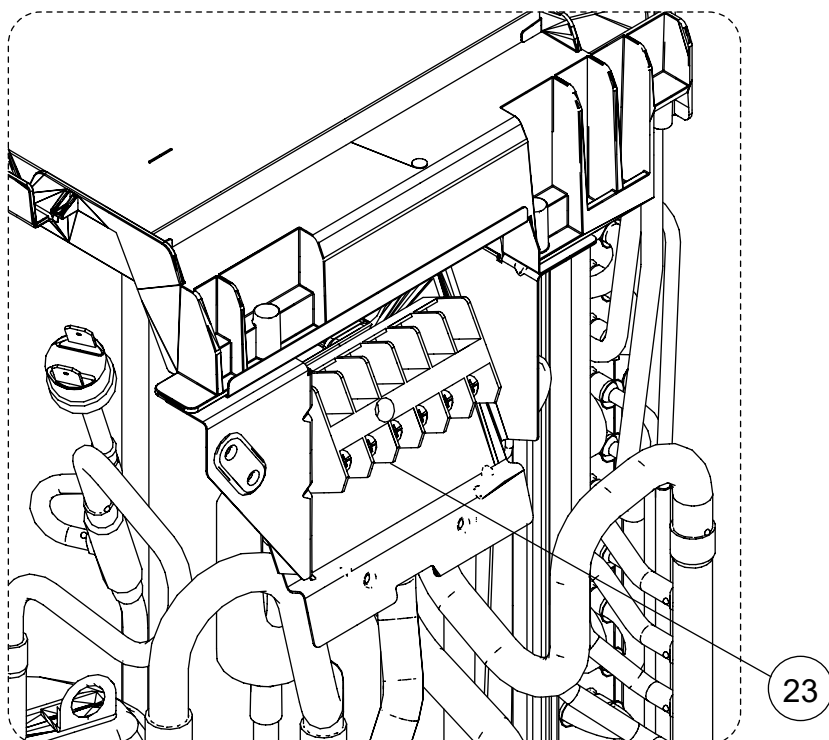
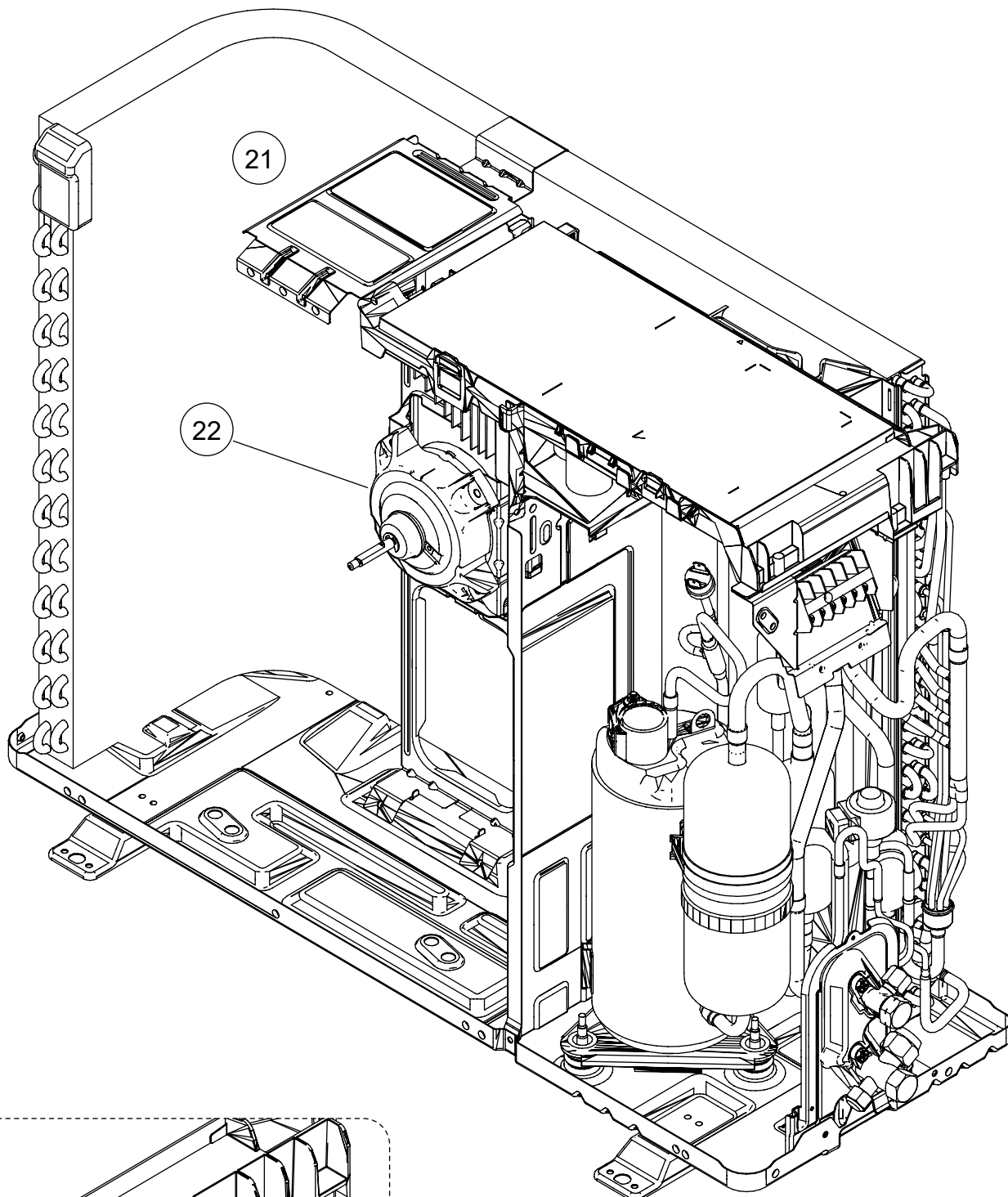
| Ref. | Description         | Part number |
|------|---------------------|-------------|
| 1    | Protective net assy | 9322811028  |
| 2    | Outdoor thermistor  | 9900565060  |
| 3    | Drain pipe          | 9322144003  |

OUTDOOR UNIT  
AOYG22KBTB



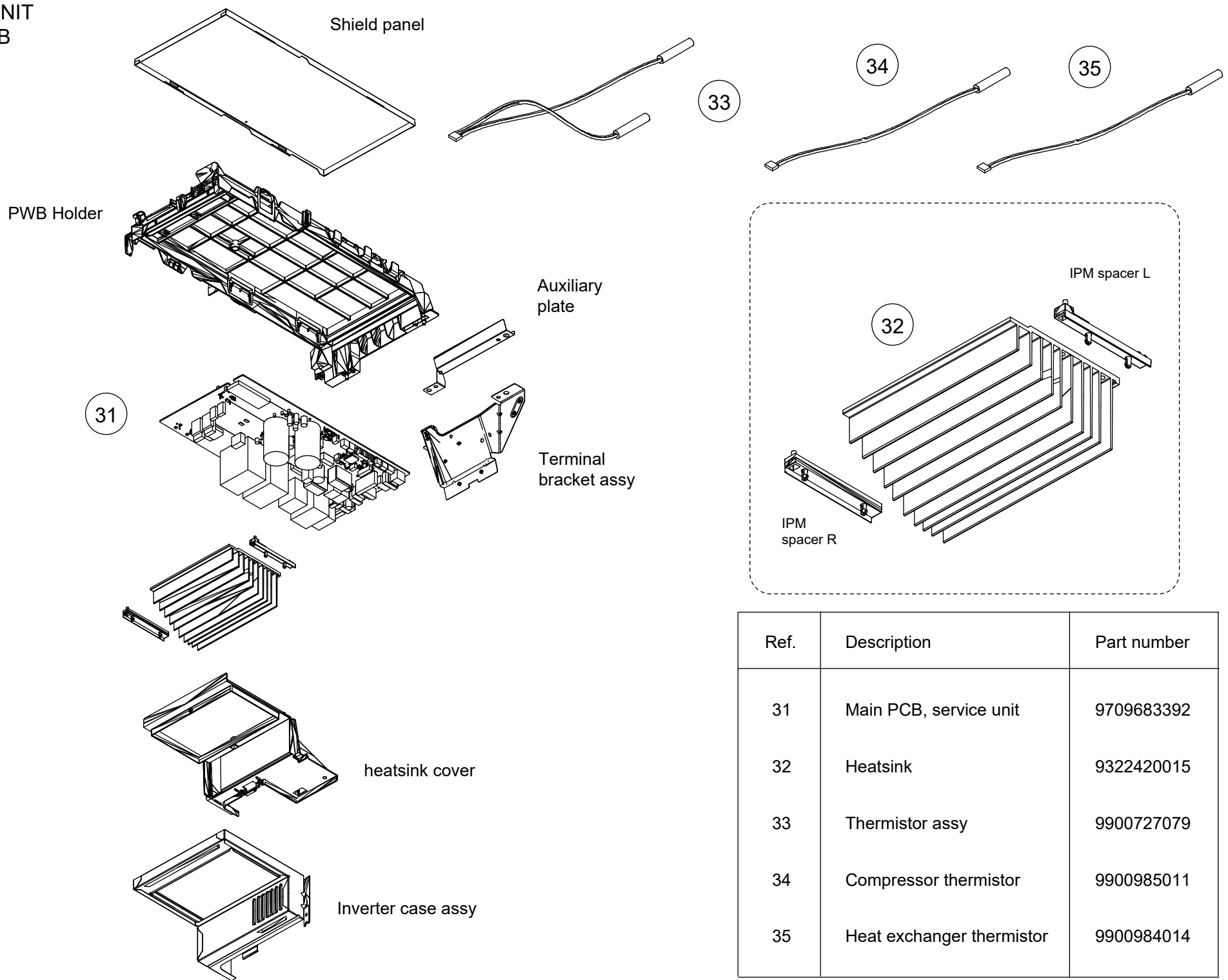
| Ref. | Description        | Part number |
|------|--------------------|-------------|
| 11   | Top panel assy     | 9322556028  |
| 12   | Front panel assy   | 9322555021  |
| 13   | Blow grille        | 9322149008  |
| 14   | Emblem             | 9319151007  |
| 15   | Switch cover assy  | 9322570024  |
| 16   | Cabinet right assy | 9322552099  |
| 17   | Propeller fan      | 9322150004  |

OUTDOOR UNIT  
AOYG22KBTB



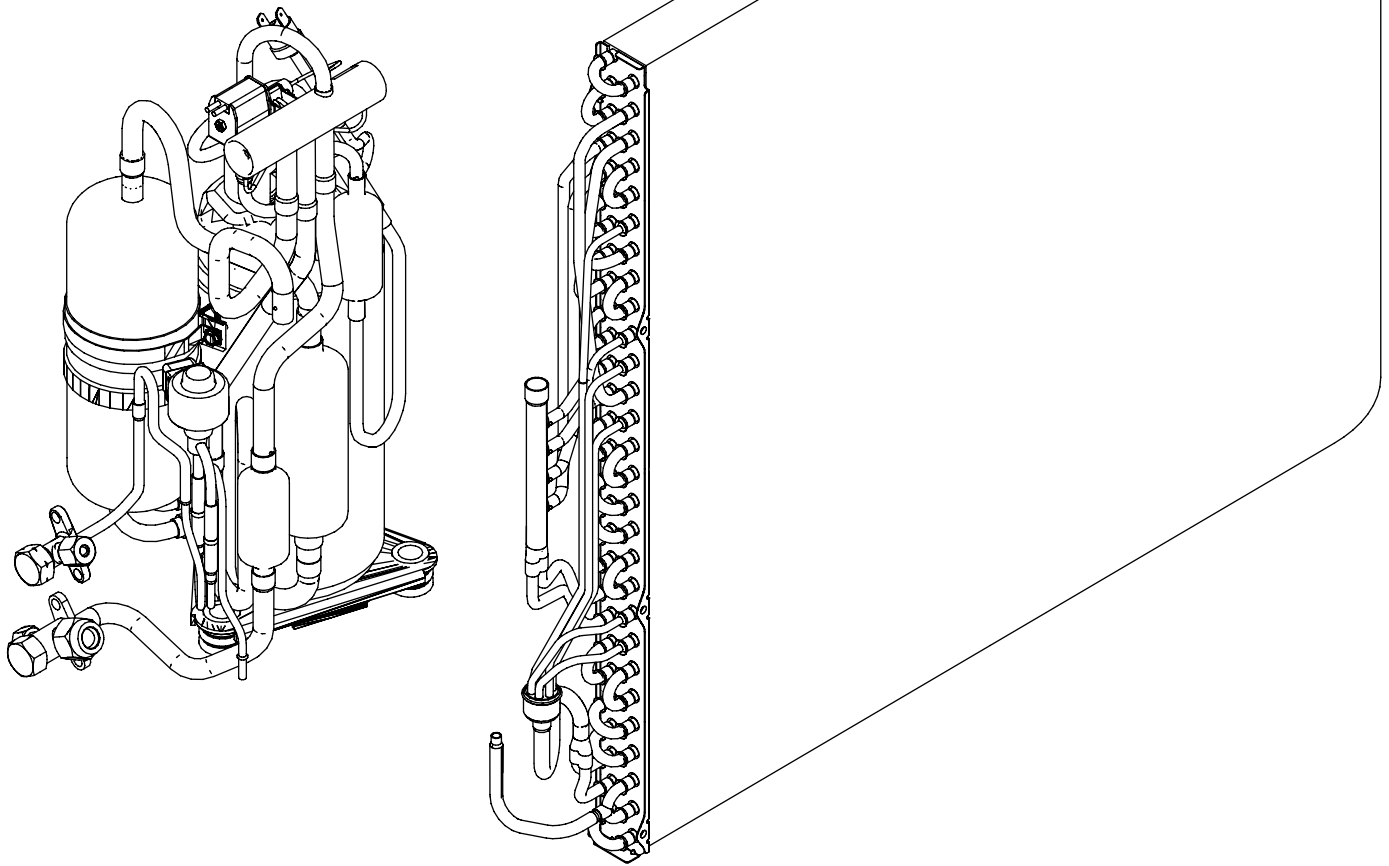
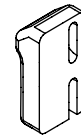
| Ref. | Description        | Part number |
|------|--------------------|-------------|
| 21   | Motor bracket assy | 9322553027  |
| 22   | Brushless motor    | 9603601003  |
| 23   | Terminal           | 9900435028  |

OUTDOOR UNIT  
AOYG22KBTB



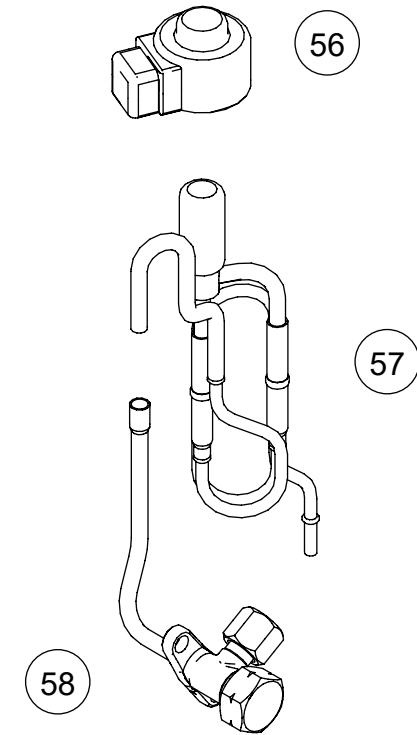
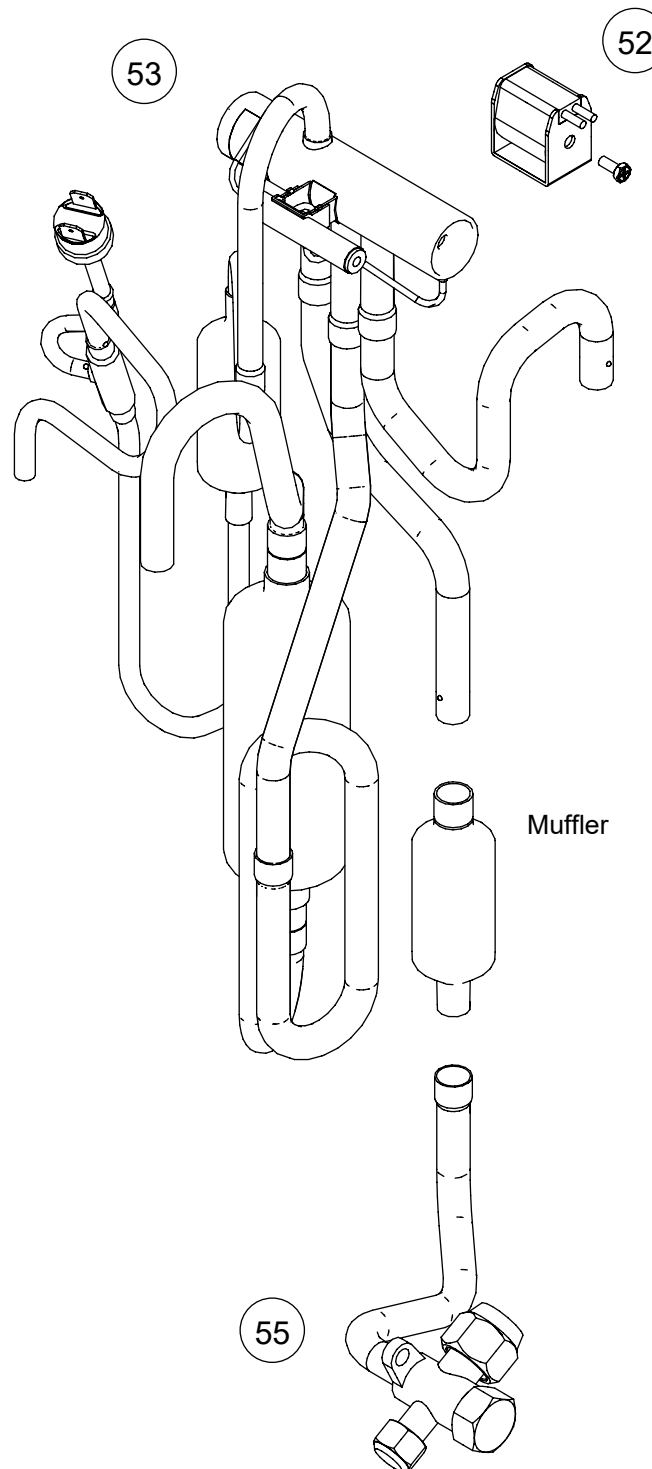
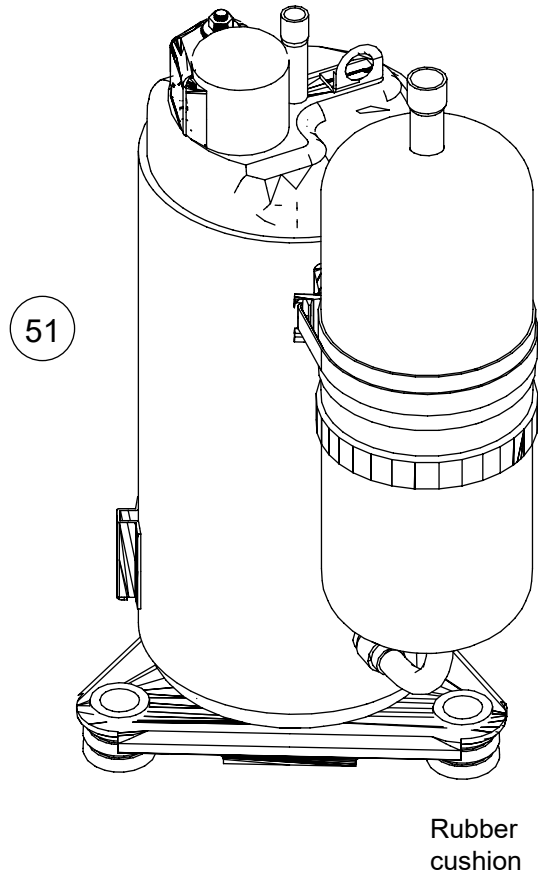
| Ref. | Description               | Part number |
|------|---------------------------|-------------|
| 31   | Main PCB, service unit    | 9709683392  |
| 32   | Heatsink                  | 9322420015  |
| 33   | Thermistor assy           | 9900727079  |
| 34   | Compressor thermistor     | 9900985011  |
| 35   | Heat exchanger thermistor | 9900984014  |

Hair pin  
cushion



| Ref. | Description   | Part number |
|------|---|-------------|
| 41   | Heat exchanger unit<br>(Condenser total assy+<br>Thermistor holder pipe+<br>Hair pin cushion) | 9323834330  |
| -    | S-insulator B   | 9322503008  |
| -    | S-insulator F   | 9322847003  |
| -    | S-insulator H   | 9322501004  |
| -    | S-insulator V   | 9323045002  |
| -    | S-insulator K   | 9322824004  |

OUTDOOR UNIT  
AOYG22KBTB


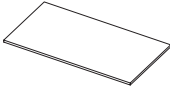
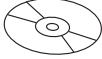
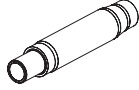


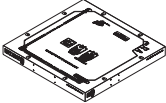



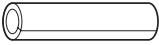

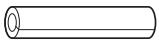


| Ref. | Description            | Part number |
|------|------------------------|-------------|
| 51   | Compressor             | 9810521002  |
| 52   | Solenoid               | 9970195006  |
| 53   | 4-way valve assy       | 9383129018  |
| 55   | 3-way valve assy       | 9387831016  |
| 56   | Expansion valve coil   | 9970173028  |
| 57   | Pulse motor valve assy | 9322463029  |
| 58   | 2-way valve assy       | 9322474001  |


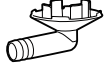


# Accessories

## Models: AUXG18KRLB and AUXG22KRLB

| Part name                       | Exterior  | Q'ty | Part name                  | Exterior   | Q'ty |
|---------------------------------|---|------|----------------------------|--|------|
| Operating manual                |    | 1    | Insulation                 |   | 1    |
| Operating manual (CD-ROM)       |    | 1    | Drain hose                 |   | 1    |
| Installation manual             |    | 1    | Hose band                  |   | 1    |
| Template (Carton top)           |    | 1    | Drain hose heat insulation |   | 1    |
| Washer                          |    | 8    | Cable tie (large)          |   | 4    |
| Coupler heat insulation (large) |   | 1    | Cable tie (small)          |  | 2    |
| Coupler heat insulation (small) |  | 1    |                            |  |      |

## Models: AOYG18KBTB and AOYG22KBTB

| Part name           | Exterior  | Q'ty | Part name  | Exterior  | Q'ty |
|---------------------|---|------|------------|---|------|
| Installation manual |  | 1    | Drain pipe |  | 1    |

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