

# Room Air Conditioner

## **SVC MANUAL(Exploded View)**

**MODEL : LAN090HSV5 / LSU090HSV5 (S4NW09JLRDA / S4UW09JLRDA)**  
**LAN120HSV5 / LSU120HSV5 (S4NW12JLRDA / S4UW12JLRDA)**  
**LAN180HSV5 / LSU180HSV5 (S4NW18KPRDA / S4UW18KPRDA)**

**LSN090HSV5 / LSU090HSV5 (S4NW09JL1DA / S4UW09JLRDA)**  
**LSN120HSV5 / LSU120HSV5 (S4NW12JL1DA / S4UW12JLRDA)**  
**LSN180HSV5 / LSU180HSV5 (S4NW18KP1DA / S4UW18KPRDA)**

### **CAUTION**

Before Servicing the unit, read the safety precautions in General SVC manual.  
Only for authorized service personnel.

# 1. Product Specifications

| Buyer Model             | Set (Indoor / Outdoor)             |                                         | Unit                              | S4-W09JLRDA (S4NW09JLRDA / S4UW09JLRDA)<br>S4-W09JL1DA (S4NW09JL1DA / S4UW09JL1DA) |                         |                                   | S4-W12JLRDA (S4NW12JLRDA / S4UW12JLRDA)<br>S4-W12JL1DA (S4NW12JL1DA / S4UW12JL1DA) |                                    |        |  |
|-------------------------|------------------------------------|-----------------------------------------|-----------------------------------|------------------------------------------------------------------------------------|-------------------------|-----------------------------------|------------------------------------------------------------------------------------|------------------------------------|--------|--|
| Factory Model           |                                    |                                         |                                   | LA090HSV5 (LAN090HSV5 / LSU090HSV5)<br>LS090HSV5 (LSN090HSV5 / LSU090HSV5)         |                         |                                   | LA120HSV5 (LAN120HSV5 / LSU120HSV5)<br>LS120HSV5 (LSN120HSV5 / LSU120HSV5)         |                                    |        |  |
| Capacity                | Cooling                            | Min ~ Rated ~ Max                       | kW                                | 0.3                                                                                | 2.64                    | 3.7                               | 0.30                                                                               | 3.50                               | 4.03   |  |
|                         |                                    |                                         | Btu/h                             | 1,023                                                                              | 9,000                   | 12,625                            | 1,023                                                                              | 12,000                             | 13,785 |  |
|                         | Heating                            | Min ~ Rated ~ Max                       | kW                                | 0.3                                                                                | 3.19                    | 5                                 | 0.89                                                                               | 4.00                               | 6.50   |  |
|                         |                                    |                                         | Btu/h                             | 1,023                                                                              | 10,900                  | 17,061                            | 3,037                                                                              | 13,600                             | 22,178 |  |
|                         | Maximum Heating<br>(@ ID 70 °F DB) | OD 19 / 17 °F DB / WB                   | Btu/h                             | 11,080(102%)                                                                       |                         |                                   | 13,810 (102 %)                                                                     |                                    |        |  |
|                         |                                    | OD 6 / 5 °F DB / WB                     | Btu/h                             | 9,570(88%)                                                                         |                         |                                   | 11,930 (88 %)                                                                      |                                    |        |  |
|                         |                                    | OD 1 / 0 °F DB / WB                     | Btu/h                             | 8,930(82%)                                                                         |                         |                                   | 11,130 (81 %)                                                                      |                                    |        |  |
| OD -3 / -4 °F DB / WB   |                                    | Btu/h                                   | 8,310(76%)                        |                                                                                    |                         | 10,360 (76 %)                     |                                                                                    |                                    |        |  |
| OD -12 / -13 °F DB / WB |                                    | Btu/h                                   | -                                 |                                                                                    |                         | -                                 |                                                                                    |                                    |        |  |
| Power Input             | Cooling                            | Min ~ Rated ~ Max                       | W                                 | 200                                                                                | 620                     | 870                               | 200                                                                                | 960                                | -      |  |
|                         | Heating                            | Min ~ Rated ~ Max                       | W                                 | 195                                                                                | 710                     | 1,890                             | 195                                                                                | 1,040                              | -      |  |
|                         | Maximum Heating<br>(@ ID 70 °F DB) | OD 19 / 17 °F DB / WB                   | W                                 | 1,020                                                                              |                         |                                   | 1,500                                                                              |                                    |        |  |
|                         |                                    | OD 6 / 5 °F DB / WB                     | W                                 | 1,000                                                                              |                         |                                   | 1,470                                                                              |                                    |        |  |
|                         |                                    | OD 1 / 0 °F DB / WB                     | W                                 | 960                                                                                |                         |                                   | 1,410                                                                              |                                    |        |  |
|                         |                                    | OD -3 / -4 °F DB / WB                   | W                                 | 930                                                                                |                         |                                   | 1,360                                                                              |                                    |        |  |
|                         |                                    | OD -12 / -13 °F DB / WB                 | W                                 | -                                                                                  |                         |                                   | -                                                                                  |                                    |        |  |
| Running Current         | Cooling                            | Min ~ Rated ~ Max                       | A                                 | 2.00                                                                               | 2.90                    | 4.20                              | -                                                                                  | 4.50                               | -      |  |
|                         | Heating                            | Min ~ Rated ~ Max                       | A                                 | 3.00                                                                               | 3.50                    | 5.60                              | -                                                                                  | 4.70                               | -      |  |
| EER                     |                                    |                                         | W/W                               | 4.25                                                                               |                         |                                   | 3.65                                                                               |                                    |        |  |
|                         |                                    |                                         | (Btu/h)/W                         | 14.52                                                                              |                         |                                   | 12.50                                                                              |                                    |        |  |
| SEER                    |                                    |                                         | -                                 | 23.5                                                                               |                         |                                   | 22.7                                                                               |                                    |        |  |
| COP                     |                                    |                                         | W/W                               | 4.5                                                                                |                         |                                   | 3.85                                                                               |                                    |        |  |
|                         |                                    |                                         | (Btu/h)/W                         | 15.35                                                                              |                         |                                   | 13.08                                                                              |                                    |        |  |
| HSPF                    |                                    | IV / V <sup>1</sup>                     | -                                 | 11.3 / 9.8                                                                         |                         |                                   | 11.4 / 9.9                                                                         |                                    |        |  |
| Energy Star             |                                    |                                         | -                                 | Yes                                                                                |                         |                                   | Yes                                                                                |                                    |        |  |
| Tax Credit              |                                    |                                         | -                                 | Yes                                                                                |                         |                                   | Yes                                                                                |                                    |        |  |
| Most Efficient          |                                    |                                         | -                                 | Yes                                                                                |                         |                                   | Yes                                                                                |                                    |        |  |
| Power Supply            |                                    |                                         | Ø, V, Hz                          | 1, 208/230, 60                                                                     |                         |                                   | 1, 208/230, 60                                                                     |                                    |        |  |
| Available Voltage Range |                                    |                                         | V                                 | 187 ~ 253                                                                          |                         |                                   | 187 ~ 253                                                                          |                                    |        |  |
| Power Factor            |                                    | Cooling / Heating                       | %                                 | 95.5 / 95.6                                                                        |                         |                                   | 95.5 / 95.6                                                                        |                                    |        |  |
| Moisture Removal        |                                    |                                         | pts/h (l/h)                       | 1.3 / 2.7                                                                          |                         |                                   | 2.7 (1.3)                                                                          |                                    |        |  |
| Indoor                  | Air Flow Rate                      | Cooling, Max / H / M / L                | m <sup>3</sup> /min               | 13.0 / 11.0 / 9.0 / 5.5                                                            |                         |                                   | 13.0 / 11.0 / 9.0 / 5.5                                                            |                                    |        |  |
|                         |                                    |                                         | CFM                               | 459 / 338 / 317 / 194                                                              |                         |                                   | 459 / 338 / 317 / 194                                                              |                                    |        |  |
|                         |                                    | Heating, Max / H / M / L                | m <sup>3</sup> /min               | 13.0 / 11.0 / 9.0 / 6.5                                                            |                         |                                   | 13.0 / 11.0 / 9.0 / 6.5                                                            |                                    |        |  |
|                         |                                    |                                         | CFM                               | 459 / 338 / 317 / 229                                                              |                         |                                   | 459 / 338 / 317 / 229                                                              |                                    |        |  |
|                         | RPM                                | Cooling, Max / H / HM / M / ML / L / SL | -                                 | 1,650 / 1,250 / 1,140 / 1,030 / 830 / 600 / 530                                    |                         |                                   | 1,650 / 1,250 / 1,140 / 1,030 / 830 / 600 / 530                                    |                                    |        |  |
|                         |                                    | Heating, Max / H / HM / M / ML / L / SL | -                                 | 1,650 / 1,300 / 1,190 / 1,080 / 940 / 800 / 670                                    |                         |                                   | 1,650 / 1,300 / 1,190 / 1,080 / 940 / 800 / 670                                    |                                    |        |  |
|                         | Sound Pressure Level               | Cooling, Max / H / M / L / SL           | dB(A)+1                           | - / 41 / 35 / 25 / 21                                                              |                         |                                   | - / 41 / 35 / 25 / 21                                                              |                                    |        |  |
|                         |                                    | Heating, Max / H / M / L                | dB(A)+1                           | - / 41 / 35 / 25                                                                   |                         |                                   | - / 41 / 35 / 25                                                                   |                                    |        |  |
|                         | Dimensions<br>(W x H x D)          | Net                                     | mm                                | 837 x 308 x 192                                                                    |                         |                                   | 837 x 308 x 192                                                                    |                                    |        |  |
|                         |                                    |                                         | in.                               | 33-3/8 x 12-1/8 x 7-19/32                                                          |                         |                                   | 33-3/8 x 12-1/8 x 7-19/32                                                          |                                    |        |  |
|                         |                                    | Shipping                                | mm                                | 914 x 388 x 261                                                                    |                         |                                   | 914 x 388 x 261                                                                    |                                    |        |  |
|                         |                                    |                                         | in.                               | 35-31/32 x 15-9/32 x 10-9/32                                                       |                         |                                   | 35-31/32 x 15-9/32 x 10-9/32                                                       |                                    |        |  |
|                         | Weight                             | Net                                     | lb. (kg)                          | 20.5(9.3)                                                                          |                         |                                   | 20.5 (9.3)                                                                         |                                    |        |  |
|                         |                                    | Shipping                                | lb. (kg)                          | 25.6(11.6)                                                                         |                         |                                   | 25.6 (11.6)                                                                        |                                    |        |  |
|                         | Disconnect Switch                  |                                         |                                   | A                                                                                  | 15                      |                                   |                                                                                    | 15                                 |        |  |
|                         | Exterior Color Code                |                                         |                                   | -                                                                                  | Munsell 7.5PB 0.2/20    |                                   |                                                                                    | Munsell 7.5PB 0.2/20 (RAL 9005)    |        |  |
|                         | Operation Range                    |                                         | Maximum Relative Humidity         | %                                                                                  | 78                      |                                   |                                                                                    | 78                                 |        |  |
| Outdoor                 | Air Flow Rate                      | Max                                     | m <sup>3</sup> /min               | 27                                                                                 |                         |                                   | 27                                                                                 |                                    |        |  |
|                         |                                    |                                         | CFM                               | 953                                                                                |                         |                                   | 953                                                                                |                                    |        |  |
|                         | Sound Pressure Level               | Cooling, Rated                          | dB(A)+1                           | 48                                                                                 |                         |                                   | 48                                                                                 |                                    |        |  |
|                         |                                    | Heating, Rated                          | dB(A)+1                           | 50                                                                                 |                         |                                   | 50                                                                                 |                                    |        |  |
|                         | Dimensions<br>(W x H x D)          | Net                                     | mm                                | 770 x 545 x 288                                                                    |                         |                                   | 770 x 545 x 288                                                                    |                                    |        |  |
|                         |                                    |                                         | in.                               | 30-5/16 x 21-1/2 x 11-5/16                                                         |                         |                                   | 30-5/16 x 21-1/2 x 11-5/16                                                         |                                    |        |  |
|                         |                                    | Shipping                                | mm                                | 905 x 573 x 378                                                                    |                         |                                   | 905 x 573 x 378                                                                    |                                    |        |  |
|                         |                                    |                                         | in.                               | 35-5/8 x 22-9/16 x 14-7/8                                                          |                         |                                   | 35-5/8 x 22-9/16 x 14-7/8                                                          |                                    |        |  |
|                         | Weight                             | Net                                     | lb. (kg)                          | 74.1(33.6)                                                                         |                         |                                   | 74.1 (33.6)                                                                        |                                    |        |  |
|                         |                                    | Shipping                                | lb. (kg)                          | 78.9(35.8)                                                                         |                         |                                   | 78.9 (35.8)                                                                        |                                    |        |  |
|                         | Max. Fuse Size                     |                                         |                                   | A                                                                                  | 15                      |                                   |                                                                                    | 15                                 |        |  |
|                         | Exterior Color Code                |                                         |                                   | -                                                                                  | Munsell 9.54Y 8.34/1.31 |                                   |                                                                                    | Munsell 9.54Y 8.34/1.31 (RAL 9001) |        |  |
| Operation Range         | Cooling                            | °F(°C)                                  | 14 [0 °] ~ 118 (-10 [-18 °] ~ 48) |                                                                                    |                         | 14 [0 °] ~ 118 (-10 [-18 °] ~ 48) |                                                                                    |                                    |        |  |
|                         | Heating                            | °F(°C)                                  | -4 ~ 65(-20 ~ 18)                 |                                                                                    |                         | -4 ~ 65 (-20 ~ 18)                |                                                                                    |                                    |        |  |

## Note :

- O : Applied, X : No relation, - : No relation
- Filters are optional in some specific areas.
- For Circuit Breaker Rating, please conform to local standards whenever necessary.
- If you use Wi-Fi, Wi-Fi module must be purchased separately.

- a) HSPF Region V = HSPF Region IV / 1.15
  - HSPF IV values comply with US standard.
  - HSPF V values comply with Canada standard.
- b) \* : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

| Buyer Model                  |                                      |                                         | Set (Indoor / Outdoor) | Unit                               | S4-W09JLRDA (S4NW09JLRDA / S4UW09JLRDA)<br>S4-W09JL1DA (S4NW09JL1DA / S4UW09JL1DA) | S4-W12JLRDA (S4NW12JLRDA / S4UW12JLRDA)<br>S4-W12JL1DA (S4NW12JL1DA / S4UW12JL1DA) |
|------------------------------|--------------------------------------|-----------------------------------------|------------------------|------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Factory Model                |                                      |                                         |                        |                                    | LA090HSV5 (LAN090HSV5 / LSU090HSV5)<br>LS090HSV5 (LSN090HSV5 / LSU090HSV5)         | LA120HSV5 (LAN120HSV5 / LSU120HSV5)<br>LS120HSV5 (LSN120HSV5 / LSU120HSV5)         |
| Minimum Circuit Ampacity     |                                      |                                         |                        | A                                  | 10                                                                                 | 10                                                                                 |
| Recommended Fuse Size        |                                      |                                         |                        | A                                  | 15                                                                                 | 15                                                                                 |
| Power Supply Cable           |                                      |                                         |                        | No. x AWG (mm²)                    | 3 x 14 (2.0)                                                                       | 3 x 14 (2.0)                                                                       |
| Power Supply to Unit         |                                      |                                         |                        | -                                  | Outdoor                                                                            | Outdoor                                                                            |
| Power and Transmission Cable |                                      |                                         |                        | No. x AWG (mm²)                    | 4 x 18 (1.0)                                                                       | 4 x 18 (1.0)                                                                       |
| Piping                       | Size                                 | Liquid                                  | in. (mm)               | ø 1/4(ø 6.35)                      | Ø 1/4 (Ø 6.35)                                                                     |                                                                                    |
|                              |                                      | Gas                                     | in. (mm)               | ø 3/8(ø 9.52)                      | Ø 3/8 (Ø 9.52)                                                                     |                                                                                    |
| Connections Method           |                                      | Indoor / Outdoor                        | -                      | Flared / Flared                    | Flared / Flared                                                                    |                                                                                    |
| Drain Hose Size              |                                      |                                         | O.D. I.D               | in. (mm)                           | 27/32, 5/8 (21.5, 16.0)                                                            | 27/32, 5/8 (21.5, 16.0)                                                            |
| Between Indoor & Outdoor     | Piping Length                        | Min / Standard / Max                    | ft. (m)                | 9.8 / 24.6 / 82 (3 / 7.5 / 25)     | 9.8 / 24.6 / 82 (3 / 7.5 / 25)                                                     |                                                                                    |
|                              |                                      | No Charge                               | ft. (m)                | 41.0 (12.5)                        | 41.0 (12.5)                                                                        |                                                                                    |
| Max. Elevation Difference    |                                      |                                         | ft. (m)                | 49.2 (15)                          | 49.2 (15)                                                                          |                                                                                    |
| Refrigerant                  | Type                                 |                                         | -                      | R410A                              | R410A                                                                              |                                                                                    |
|                              | Pre Charge                           |                                         | oz. (g)                | 35.3 (1000)                        | 35.3 (1,000)                                                                       |                                                                                    |
|                              | Additional Charge                    |                                         | oz./ft. (g/m)          | 0.22 (20)                          | 0.22 (20)                                                                          |                                                                                    |
|                              | Control                              |                                         | -                      | Electronic Expansion Valve         | Electronic Expansion Valve                                                         |                                                                                    |
| Defrost Method               |                                      |                                         | -                      | Reverse Cycle                      | Reverse Cycle                                                                      |                                                                                    |
| Tool Code (Chassis)          |                                      | Indoor / Outdoor                        | -                      | SJ / UL2                           | SJ / UL2                                                                           |                                                                                    |
| Compressor                   | Type                                 | -                                       |                        | Twin Rotary                        | Twin Rotary                                                                        |                                                                                    |
|                              | Model                                | -                                       |                        | GAT134MCA                          | GAT134MCA                                                                          |                                                                                    |
|                              | Motor Type                           | -                                       |                        | BLDC                               | BLDC                                                                               |                                                                                    |
|                              | Oil Type / Maker                     | -                                       |                        | POE (RB68A) / Sun Oil or Jx Nippon | POE (RB68A) / Sun Oil or Jx Nippon                                                 |                                                                                    |
|                              | Oil Charge                           | cc                                      |                        | 360                                | 360                                                                                |                                                                                    |
|                              | O.L.P. Name                          | -                                       |                        | -                                  | -                                                                                  |                                                                                    |
|                              | Manufacturer / Country of Origin     | -                                       |                        | LG Electronics / China             | LG Electronics / China                                                             |                                                                                    |
| Fan(Indoor)                  | Type                                 | -                                       |                        | Cross Flow Fan                     | Cross Flow Fan                                                                     |                                                                                    |
|                              | Motor Output                         | W                                       |                        | 30                                 | 30                                                                                 |                                                                                    |
| Fan(Outdoor)                 | Type                                 | -                                       |                        | Propeller Fan                      | Propeller Fan                                                                      |                                                                                    |
|                              | Motor Type                           | -                                       |                        | BLDC                               | BLDC                                                                               |                                                                                    |
|                              | Motor Output                         | W                                       |                        | 43                                 | 43                                                                                 |                                                                                    |
|                              | Motor Insulation                     | -                                       |                        | Class E                            | Class E                                                                            |                                                                                    |
|                              | Motor Enclosure / Ingress Protection | -                                       |                        | TEAO / IPX4                        | TEAO / IPX4                                                                        |                                                                                    |
| Heat Exchanger               | Evaporator                           | Material, Tube / Fin                    | -                      | Cu / Al                            | Cu / Al                                                                            |                                                                                    |
|                              |                                      | (Ø x Row x Column x FPI/FPDM x L) x No. | -                      | (Ø 5 x 2 x 23 x 22 x 616.8) x 1    | (Ø 5 x 2 x 23 x 22 x 616.8) x 1                                                    |                                                                                    |
|                              |                                      | Corrosion Protection                    | -                      | PCM                                | PCM                                                                                |                                                                                    |
|                              | Condenser                            | Material, Tube / Fin                    | -                      | Cu /Al                             | Cu /Al                                                                             |                                                                                    |
|                              |                                      | (Ø x Row x Column x FPI/FPDM x L) x No. | -                      | Ø 7 x 2 x 24 x 18 x 814            | Ø 7 x 2 x 24 x 18 x 814                                                            |                                                                                    |
|                              |                                      | Corrosion Protection                    | -                      | Gold                               | Gold                                                                               |                                                                                    |

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- HSPF IV values comply with US standard.

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• b) \* : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

| Buyer Model             | Set (Indoor / Outdoor)             |                                         | Unit                | S4-W18KPRDA (S4NW18KPRDA / S4UW18KPRDA)<br>S4-W18KP1DA (S4NW18KP1DA / S4UW18KP1DA) |        |        |
|-------------------------|------------------------------------|-----------------------------------------|---------------------|------------------------------------------------------------------------------------|--------|--------|
| Factory Model           |                                    |                                         |                     | LA180HSV5 (LAN180HSV5 / LSU180HSV5)<br>LS180HSV5 (LSN180HSV5 / LSU180HSV5)         |        |        |
| Capacity                | Cooling                            | Min ~ Rated ~ Max                       | kW                  | 0.90                                                                               | 5.28   | 8.65   |
|                         |                                    |                                         | Btu/h               | 3,070                                                                              | 18,000 | 29,515 |
|                         | Heating                            | Min ~ Rated ~ Max                       | kW                  | 0.90                                                                               | 6.33   | 11.40  |
|                         |                                    |                                         | Btu/h               | 3,070                                                                              | 21,600 | 38,898 |
|                         | Maximum Heating<br>(@ ID 70 °F DB) | OD 19 / 17 °F DB / WB                   | Btu/h               | 22,340 (103 %)                                                                     |        |        |
|                         |                                    | OD 6 / 5 °F DB / WB                     | Btu/h               | 19,300 (89 %)                                                                      |        |        |
|                         |                                    | OD 1 / 0 °F DB / WB                     | Btu/h               | 18,000 (83 %)                                                                      |        |        |
|                         |                                    | OD -3 / -4 °F DB / WB                   | Btu/h               | 16,760 (77 %)                                                                      |        |        |
|                         |                                    | OD -12 / -13 °F DB / WB                 | Btu/h               | -                                                                                  |        |        |
| Power Input             | Cooling                            | Min ~ Rated ~ Max                       | W                   | 175                                                                                | 1,431  | 1,500  |
|                         | Heating                            | Min ~ Rated ~ Max                       | W                   | 660                                                                                | 1,730  | 2,200  |
|                         | Maximum Heating<br>(@ ID 70 °F DB) | OD 19 / 17 °F DB / WB                   | W                   | 2,530                                                                              |        |        |
|                         |                                    | OD 6 / 5 °F DB / WB                     | W                   | 2,480                                                                              |        |        |
|                         |                                    | OD 1 / 0 °F DB / WB                     | W                   | 2,390                                                                              |        |        |
|                         |                                    | OD -3 / -4 °F DB / WB                   | W                   | 2,310                                                                              |        |        |
|                         |                                    | OD -12 / -13 °F DB / WB                 | W                   | -                                                                                  |        |        |
| Running Current         | Cooling                            | Min ~ Rated ~ Max                       | A                   | -                                                                                  | 6.30   | -      |
|                         | Heating                            | Min ~ Rated ~ Max                       | A                   | -                                                                                  | 8.20   | -      |
| EER                     |                                    |                                         | W/W                 | 3.69                                                                               |        |        |
| SEER                    |                                    |                                         | (Btu/h)/W           | 12.58                                                                              |        |        |
| COP                     |                                    |                                         | W/W                 | 3.66                                                                               |        |        |
| HSPF                    |                                    |                                         | (Btu/h)/W           | 12.49                                                                              |        |        |
| HSPF                    |                                    |                                         | IV / V <sup>1</sup> | 10.2 / 8.9                                                                         |        |        |
| Energy Star             |                                    |                                         | -                   | Yes                                                                                |        |        |
| Tax Credit              |                                    |                                         | -                   | Yes                                                                                |        |        |
| Most Efficient          |                                    |                                         | -                   | Yes                                                                                |        |        |
| Power Supply            |                                    |                                         | Ø, V, Hz            | 1, 208/230, 60                                                                     |        |        |
| Available Voltage Range |                                    |                                         | V                   | 187 ~ 253                                                                          |        |        |
| Power Factor            |                                    |                                         | %                   | 96.3 / 97.0                                                                        |        |        |
| Moisture Removal        |                                    |                                         | Cooling / Heating   | pts/h (l/h)                                                                        |        |        |
| Indoor                  | Air Flow Rate                      | Cooling, Max / H / M / L                | m <sup>3</sup> /min | 20.0 / 15.0 / 13.5 / 10.5                                                          |        |        |
|                         |                                    |                                         | CFM                 | 706 / 529 / 476 / 370                                                              |        |        |
|                         |                                    | Heating, Max / H / M / L                | m <sup>3</sup> /min | 20.0 / 15.5 / 14.0 / 10.5                                                          |        |        |
|                         |                                    |                                         | CFM                 | 706 / 547 / 494 / 370                                                              |        |        |
|                         | RPM                                | Cooling, Max / H / HM / M / ML / L / SL | -                   | 1,600 / 1,200 / 1,100 / 1,000 / 920 / 850 / 700                                    |        |        |
|                         |                                    | Heating, Max / H / HM / M / ML / L / SL | -                   | 1,600 / 1,330 / 1,210 / 1,090 / 970 / 850 / 700                                    |        |        |
|                         | Sound Pressure Level               | Cooling, Max / H / M / L / SL           | dB(A)+1             | - / 47 / 42 / 36 / 31                                                              |        |        |
|                         |                                    | Heating, Max / H / M / L                | dB(A)+1             | - / 47 / 42 / 36                                                                   |        |        |
|                         | Dimensions<br>(W x H x D)          | Net                                     | mm                  | 998 x 330 x 210                                                                    |        |        |
|                         |                                    |                                         | in.                 | 39-5/16 x 13 x 8-5/16                                                              |        |        |
|                         |                                    | Shipping                                | mm                  | 1,145 x 395 x 300                                                                  |        |        |
|                         |                                    |                                         | in.                 | 45 x 15-19/32 x 11-13/16                                                           |        |        |
|                         | Weight                             | Net                                     | lb. (kg)            | 30.2 (13.7)                                                                        |        |        |
|                         |                                    | Shipping                                | lb. (kg)            | 39.7 (18)                                                                          |        |        |
|                         | Disconnect Switch                  |                                         | A                   | 25                                                                                 |        |        |
|                         | Exterior Color Code                |                                         | -                   | Munsell 7.5PB 0.2/20 (RAL 9005)                                                    |        |        |
|                         | Operation Range                    | Maximum Relative Humidity               | %                   | 78                                                                                 |        |        |
| Outdoor                 | Air Flow Rate                      | Max                                     | m <sup>3</sup> /min | 65.4                                                                               |        |        |
|                         |                                    |                                         | CFM                 | 2,310                                                                              |        |        |
|                         | Sound Pressure Level               | Cooling, Rated                          | dB(A)+1             | 56                                                                                 |        |        |
|                         |                                    | Heating, Rated                          | dB(A)+1             | 56                                                                                 |        |        |
|                         | Dimensions<br>(W x H x D)          | Net                                     | mm                  | 870 x 800 x 320                                                                    |        |        |
|                         |                                    |                                         | in.                 | 34-1/4 x 31-1/2 x 12-19/32                                                         |        |        |
|                         |                                    | Shipping                                | mm                  | 1,022 x 870 x 437                                                                  |        |        |
|                         |                                    |                                         | in.                 | 40-1/4 x 34-9/32 x 17-7/32                                                         |        |        |
|                         | Weight                             | Net                                     | lb. (kg)            | 117.9 (53.5)                                                                       |        |        |
|                         |                                    | Shipping                                | lb. (kg)            | 128.3 (58.2)                                                                       |        |        |
|                         | Max. Fuse Size                     |                                         | A                   | 25                                                                                 |        |        |
|                         | Exterior Color Code                |                                         | -                   | Munsell 9.54Y 8.34/1.31 (RAL 9001)                                                 |        |        |
|                         | Operation Range                    | Cooling                                 | °F(°C)              | 14 [0 °] ~ 118 (-10 [-18 °] ~ 48)                                                  |        |        |
|                         |                                    | Heating                                 | °F(°C)              | -4 ~ 65 (-20 ~ 18)                                                                 |        |        |

**Note :**

- O : Applied, X : No relation, - : No relation
- Filters are optional in some specific areas.
- For Circuit Breaker Rating, please conform to local standards whenever necessary.
- If you use Wi-Fi, Wi-Fi module must be purchased separately.

- a) HSPF Region V = HSPF Region IV / 1.15
  - HSPF IV values comply with US standard.
  - HSPF V values comply with Canada standard.
- b) \* : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

| Buyer Model                  |                           | Set (Indoor / Outdoor) | Unit            | S4-W18KPRDA (S4NW18KPRDA / S4UW18KPRDA)<br>S4-W18KP1DA (S4NW18KP1DA / S4UW18KP1DA) |
|------------------------------|---------------------------|------------------------|-----------------|------------------------------------------------------------------------------------|
| Factory Model                |                           |                        |                 | LA180HSV5 (LAN180HSV5 / LSU180HSV5)<br>LS180HSV5 (LSN180HSV5 / LSU180HSV5)         |
| Minimum Circuit Ampacity     |                           |                        | A               | 19                                                                                 |
| Recommended Fuse Size        |                           |                        | A               | 25                                                                                 |
| Power Supply Cable           |                           |                        | No. x AWG (mm²) | 3 × 12 (3.0)                                                                       |
| Power Supply to Unit         |                           |                        | -               | Outdoor                                                                            |
| Power and Transmission Cable |                           |                        | No. x AWG (mm²) | 4 × 18 (1.0)                                                                       |
| Piping                       | Size                      | Liquid                 | in. (mm)        | Ø 3/8 (Ø 9.52)                                                                     |
|                              |                           | Gas                    | in. (mm)        | Ø 5/8 (Ø 15.88)                                                                    |
|                              | Connections Method        | Indoor / Outdoor       | -               | Flared / Flared                                                                    |
| Drain Hose Size              |                           | O.D, I.D               | in. (mm)        | 27/32, 5/8 (21.5, 16.0)                                                            |
| Between Indoor & Outdoor     | Piping Length             | Min / Standard / Max   | ft. (m)         | 9.8 / 24.6 / 114.8 (3 / 7.5 / 35)                                                  |
|                              |                           | No Charge              | ft. (m)         | 24.6 (7.5)                                                                         |
|                              | Max. Elevation Difference |                        | ft. (m)         | 49.2 (15)                                                                          |
| Refrigerant                  |                           | Type                   | -               | R410A                                                                              |
|                              |                           | Pre Charge             | oz. (g)         | 56.4 (1,600)                                                                       |
|                              |                           | Additional Charge      | oz./ft. (g/m)   | 0.38 (35)                                                                          |
|                              |                           | Control                | -               | Electronic Expansion Valve                                                         |
| Defrost Method               |                           | -                      | -               | Reverse Cycle                                                                      |
| Tool Code (Chassis)          |                           | Indoor / Outdoor       | -               | SK / UE1+                                                                          |
| Minimum Circuit Ampacity     |                           |                        | A               | 19                                                                                 |
| Recommended Fuse Size        |                           |                        | A               | 25                                                                                 |
| Power Supply Cable           |                           |                        | No. x AWG (mm²) | 3 × 12 (3.0)                                                                       |
| Power Supply to Unit         |                           |                        | -               | Outdoor                                                                            |
| Power and Transmission Cable |                           |                        | No. x AWG (mm²) | 4 × 18 (1.0)                                                                       |
| Piping                       | Size                      | Liquid                 | in. (mm)        | Ø 3/8 (Ø 9.52)                                                                     |
|                              |                           | Gas                    | in. (mm)        | Ø 5/8 (Ø 15.88)                                                                    |
|                              | Connections Method        | Indoor / Outdoor       | -               | Flared / Flared                                                                    |
| Drain Hose Size              |                           | O.D, I.D               | in. (mm)        | 27/32, 5/8 (21.5, 16.0)                                                            |
| Between Indoor & Outdoor     | Piping Length             | Min / Standard / Max   | ft. (m)         | 9.8 / 24.6 / 114.8 (3 / 7.5 / 35)                                                  |
|                              |                           | No Charge              | ft. (m)         | 24.6 (7.5)                                                                         |
|                              | Max. Elevation Difference |                        | ft. (m)         | 49.2 (15)                                                                          |
| Refrigerant                  |                           | Type                   | -               | R410A                                                                              |
|                              |                           | Pre Charge             | oz. (g)         | 56.4 (1,600)                                                                       |
|                              |                           | Additional Charge      | oz./ft. (g/m)   | 0.38 (35)                                                                          |
|                              |                           | Control                | -               | Electronic Expansion Valve                                                         |
| Defrost Method               |                           | -                      | -               | Reverse Cycle                                                                      |
| Tool Code (Chassis)          |                           | Indoor / Outdoor       | -               | SK / UE1+                                                                          |

**Note :**

○ : Applied, X : No relation, - : No relation

• Filters are optional in some specific areas.

• For Circuit Breaker Rating, please conform to local standards whenever necessary.

• If you use Wi-Fi, Wi-Fi module must be purchased separately.

• a) HSPF Region V = HSPF Region IV / 1.15

- HSPF IV values comply with US standard.

- HSPF V values comply with Canada standard.

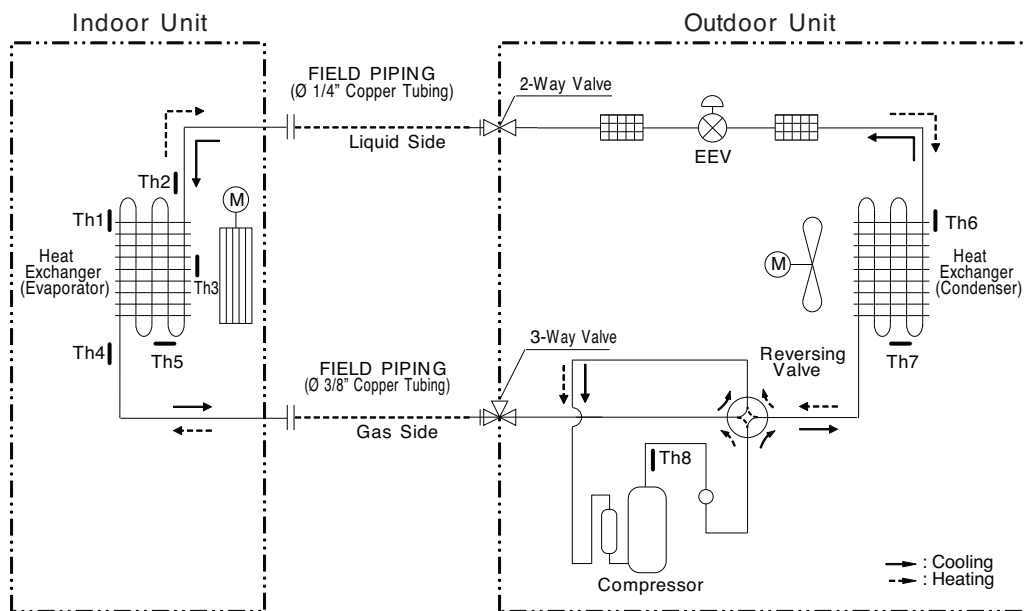
• b) \* : With wind baffle installed, the minimum temperature will be 0°F D.B. in cooling.

## 2. Function

| Category             | Function                                                             | S4-W09JLRDA, S4-W09JL1DA            | S4-W12JLRDA, S4-W12JL1DA            | S4-W18KPRDA, S4-W18KP1DA            |
|----------------------|----------------------------------------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
|                      |                                                                      | LA090HSV5, LS090HSV5                | LA120HSV5, LS120HSV5                | LA180HSV5, LS180HSV5                |
| Air Flow             | Air Supply Outlet                                                    | 1                                   | 1                                   | 1                                   |
|                      | Airflow Direction Control (Left & Right)                             | 5 Steps                             | 5 Steps                             | 5 Steps                             |
|                      | Airflow Direction Control (Up & Down)                                | 6 Steps                             | 6 Steps                             | 6 Steps                             |
|                      | Auto Swing (Left & Right)                                            | O                                   | O                                   | O                                   |
|                      | Auto Swing (Up & Down)                                               | O                                   | O                                   | O                                   |
|                      | Fan Speed Steps (Fan / Cool / Heat)                                  | 6 / 6 / 6                           | 6 / 6 / 6                           | 6 / 6 / 6                           |
|                      | Natural Wind (Auto Wind)                                             | O                                   | O                                   | O                                   |
|                      | Jet Cool / Jet Heat (Power Wind)                                     | O / O                               | O / O                               | O / O                               |
| Air Purifying        | Comfort Air                                                          | X                                   | X                                   | X                                   |
|                      | Prefilter (Washable / Anti-Bacteria)                                 | O                                   | O                                   | O                                   |
|                      | Deodorizing Filter                                                   | X                                   | X                                   | X                                   |
|                      | 3M Micro Dust Filter                                                 | O                                   | O                                   | O                                   |
|                      | 3M Multi Protection Filter                                           | X                                   | X                                   | X                                   |
| Installation         | Plasma Air Purifier                                                  | X                                   | X                                   | X                                   |
|                      | Drain Pump                                                           | X                                   | X                                   | X                                   |
| Reliability          | Hot Start                                                            | O                                   | O                                   | O                                   |
|                      | Self Diagnosis                                                       | O                                   | O                                   | O                                   |
|                      | De-ice Control (Defrost)                                             | O                                   | O                                   | O                                   |
|                      | Dry (Dehumidification) Operation                                     | O                                   | O                                   | O                                   |
| Convenience          | Auto Changeover                                                      | O                                   | O                                   | O                                   |
|                      | Auto Operation (Artificial Intelligence)                             | X                                   | X                                   | X                                   |
|                      | Auto Cleaning (Coil Dry)                                             | O                                   | O                                   | O                                   |
|                      | Auto Restart Operation                                               | O                                   | O                                   | O                                   |
|                      | Child Lock <sup>1</sup>                                              | O                                   | O                                   | O                                   |
|                      | Forced Operation                                                     | O                                   | O                                   | O                                   |
|                      | Group Control <sup>1</sup>                                           | X                                   | X                                   | X                                   |
|                      | Sleep Mode                                                           | 7hr                                 | 7hr                                 | 7hr                                 |
|                      | Timer 24hr (On/Off)                                                  | O                                   | O                                   | O                                   |
|                      | Timer (Weekly) <sup>1</sup>                                          | O                                   | O                                   | O                                   |
|                      | Two Thermistor Control <sup>1</sup>                                  | O                                   | O                                   | O                                   |
|                      | Low Ambient Operation                                                | O                                   | O                                   | O                                   |
|                      | Overheating Protection                                               | O                                   | O                                   | O                                   |
|                      | Low Heating                                                          | X                                   | X                                   | X                                   |
|                      | Voice Control                                                        | X                                   | X                                   | X                                   |
|                      | Smart Scan (PIR)                                                     | X                                   | X                                   | X                                   |
|                      | LG AC Tag On (NFC)                                                   | X                                   | X                                   | X                                   |
|                      | Outdoor Silent Mode                                                  | X                                   | X                                   | X                                   |
|                      | Mosquito Away                                                        | X                                   | X                                   | X                                   |
|                      | Smart Diagnosis                                                      | O                                   | O                                   | O                                   |
|                      | Indoor Unit Display Type                                             | Number Display                      | Number Display                      | Number Display                      |
|                      | Indoor Unit Display Light                                            | On/Off                              | On/Off                              | On/Off                              |
|                      | Energy Display                                                       | X                                   | X                                   | X                                   |
| Energy Saving        | Energy Saving                                                        | O                                   | O                                   | O                                   |
|                      | Active Energy Control (Watt Option)                                  | X                                   | X                                   | X                                   |
|                      | Gen Mode                                                             | X                                   | X                                   | X                                   |
| Individual Control   | Wired Remote Controller (Premium) <sup>2</sup>                       | X                                   | X                                   | X                                   |
|                      | Wired Remote Controller (Standard) <sup>2</sup>                      | PREMTB10U                           | PREMTB10U                           | PREMTB10U                           |
|                      | Wired Remote Controller (Simple with Mode Selection) <sup>2</sup>    | PQRCVCL0Q(W)                        | PQRCVCL0Q(W)                        | PQRCVCL0Q(W)                        |
|                      | Wired Remote Controller (Simple without Mode Selection) <sup>2</sup> | PQRCHCA0Q(W)                        | PQRCHCA0Q(W)                        | PQRCHCA0Q(W)                        |
|                      | Handheld Wireless Controller                                         | (See Remote Controller Section)     | AKB74955602                         | AKB74955602                         |
|                      |                                                                      | Setting Temperature Range (Cooling) | 18~30 °C (64~86 °F)                 | 18~30 °C (64~86 °F)                 |
| CAC Network Function | Setting Temperature Range (Heating)                                  | 16~30 °C (60~86 °F)                 | 16~30 °C (60~86 °F)                 | 16~30 °C (60~86 °F)                 |
|                      | General Central Controller (Non LGAP)                                | X                                   | X                                   | X                                   |
|                      | Network Solution (LGAP)                                              | O                                   | O                                   | O                                   |
|                      | Dry Contact <sup>2</sup>                                             | PQDSB1, PQDSBC, PQDSBC1, PQDSBNGCM1 | PQDSB1, PQDSBC, PQDSBC1, PQDSBNGCM1 | PQDSB1, PQDSBC, PQDSBC1, PQDSBNGCM1 |
|                      | PDI (Power Distribution Indicator) <sup>2</sup>                      | X                                   | X                                   | X                                   |
| Special Function Kit | Outdoor Unit PI 485 <sup>2</sup>                                     | PMNFP14A0                           | PMNFP14A0                           | PMNFP14A0                           |
|                      | Wi-Fi <sup>2</sup>                                                   | O                                   | O                                   | O                                   |
|                      | Water Level Sensor Connection <sup>2</sup>                           | O                                   | O                                   | O                                   |
|                      | Wind Baffle Kit <sup>2</sup>                                         | O                                   | O                                   | O                                   |
|                      | Sump Heater                                                          | O                                   | O                                   | O                                   |
|                      | Sheath Heater <sup>2</sup>                                           | X                                   | X                                   | X                                   |
|                      | Crank Case Heater                                                    | X                                   | X                                   | X                                   |
| Others               | Smart Inverter Monitoring System (SIMs) <sup>2</sup>                 | PSWMOZ3                             | PSWMOZ3                             | PSWMOZ3                             |
|                      | Mode Lock                                                            | Cooling Only                        | Cooling Only                        | Cooling Only                        |
|                      | Temperature Control                                                  | Thermistor                          | Thermistor                          | Thermistor                          |
|                      | DRED (Demand Response Enabling Device)                               | X                                   | X                                   | X                                   |

### 3. Piping Diagrams

LA090HSV5 (S4-W09JLRDA), LS090HSV5 (S4-W09JL1DA)  
LA120HSV5 (S4-W12JLRDA), LS120HSV5 (S4-W12JL1DA)



| LOC. | Description                                  | PCB Connector        |
|------|----------------------------------------------|----------------------|
| Th1  | Thermistor for indoor air temperature        | CN-TH1 (Indoor)      |
| Th2  | Thermistor for evaporator inlet temperature  |                      |
| Th3  | Thermistor for evaporator middle temperature | CN-TH3 (Indoor)      |
| Th4  | Thermistor for evaporator outlet temperature | CN-TH2 (Indoor)      |
| Th5  | Water Level Sensor (Option)                  |                      |
| Th6  | Thermistor for outdoor air temperature       | C_PIPE/AIR (Outdoor) |
| Th7  | Thermistor for condensing temperature        |                      |
| Th8  | Thermistor for discharge pipe temperature    | D_PIPE (Outdoor)     |

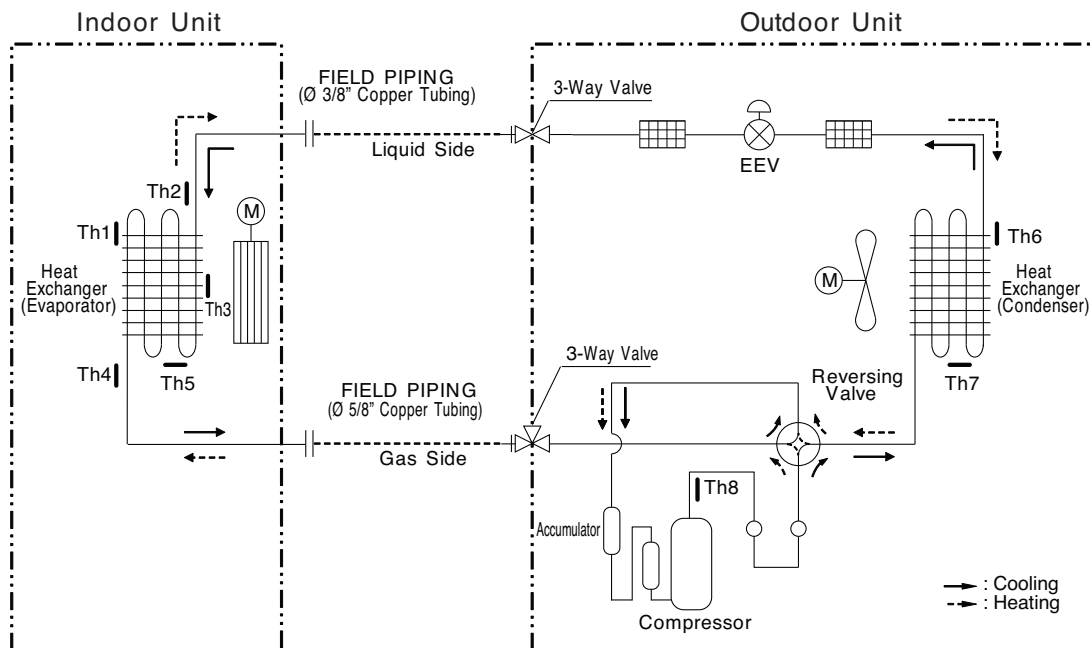
※ EEV : Electronic Expansion Valve

#### ■ Refrigerant Pipe Connection Port Diameters

| Model                                      | Gas    |       | Liquid |       |
|--------------------------------------------|--------|-------|--------|-------|
|                                            | mm     | inch  | mm     | inch  |
| LA090HSV5, LS090HSV5, LA120HSV5, LS120HSV5 | Ø 9.52 | Ø 3/8 | Ø 6.35 | Ø 1/4 |

|          |                                  |                |                            |                    |                 |                 |
|----------|----------------------------------|----------------|----------------------------|--------------------|-----------------|-----------------|
| Appendix | Heat Exchanger                   | Propeller Fan  | Cross Flow Fan             | Compressor         | Accumulator     | 4 Way Valve     |
|          | EEV (Electronic Expansion Valve) | Capillary Tube | 2-Way Valve<br>3-Way Valve | Temperature Sensor | Pressure Sensor | Pressure Switch |
|          | Check Valve                      | Flare Joint    | Muffler                    | Strainer           |                 |                 |

## LA180HSV5 (S4-W18KPRDA), LS180HSV5 (S4-W18KP1DA)



| LOC. | Description                                  | PCB Connector    |
|------|----------------------------------------------|------------------|
| Th1  | Thermistor for indoor air temperature        | CN-TH1 (Indoor)  |
| Th2  | Thermistor for evaporator inlet temperature  |                  |
| Th3  | Thermistor for evaporator middle temperature |                  |
| Th4  | Thermistor for evaporator outlet temperature | CN-TH2 (Indoor)  |
| Th5  | Water Level Sensor (Option)                  |                  |
| Th6  | Thermistor for outdoor air temperature       | CN_TH1 (Outdoor) |
| Th7  | Thermistor for condensing temperature        |                  |
| Th8  | Thermistor for discharge pipe temperature    | CN_TH2 (Outdoor) |

※ EEV : Electronic Expansion Valve

### ■ Refrigerant Pipe Connection Port Diameters

| Model                | Gas     |       | Liquid |       |
|----------------------|---------|-------|--------|-------|
|                      | mm      | inch  | mm     | inch  |
| LA180HSV5, LS180HSV5 | Ø 15.88 | Ø 5/8 | Ø 9.52 | Ø 3/8 |

|          |                                  |                |                            |                    |                 |                 |
|----------|----------------------------------|----------------|----------------------------|--------------------|-----------------|-----------------|
| Appendix | Heat Exchanger                   | Propeller Fan  | Cross Flow Fan             | Compressor         | Accumulator     | 4 Way Valve     |
|          | EEV (Electronic Expansion Valve) | Capillary Tube | 2-Way Valve<br>3-Way Valve | Temperature Sensor | Pressure Sensor | Pressure Switch |
|          | Check Valve                      | Flare Joint    | Muffler                    | Strainer           |                 |                 |

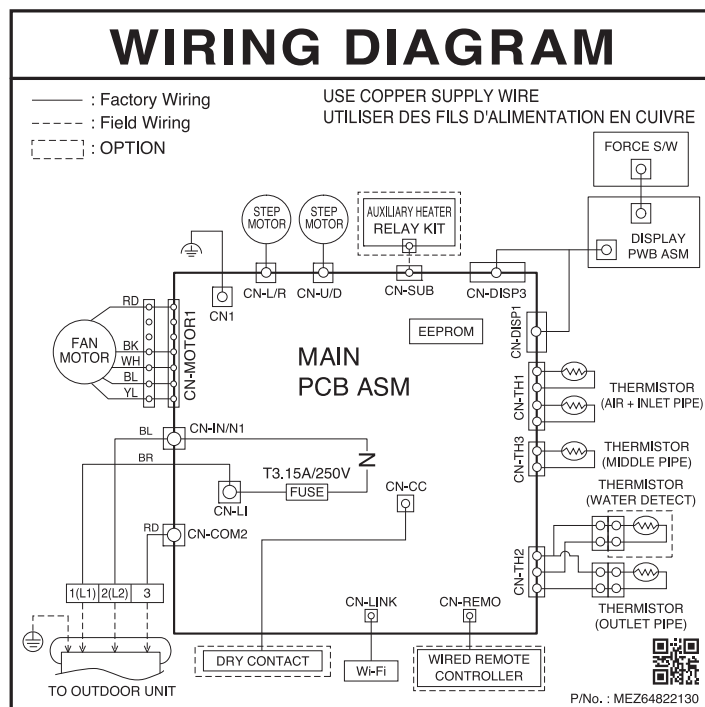
## 4. Wiring Diagrams

### Indoor Unit

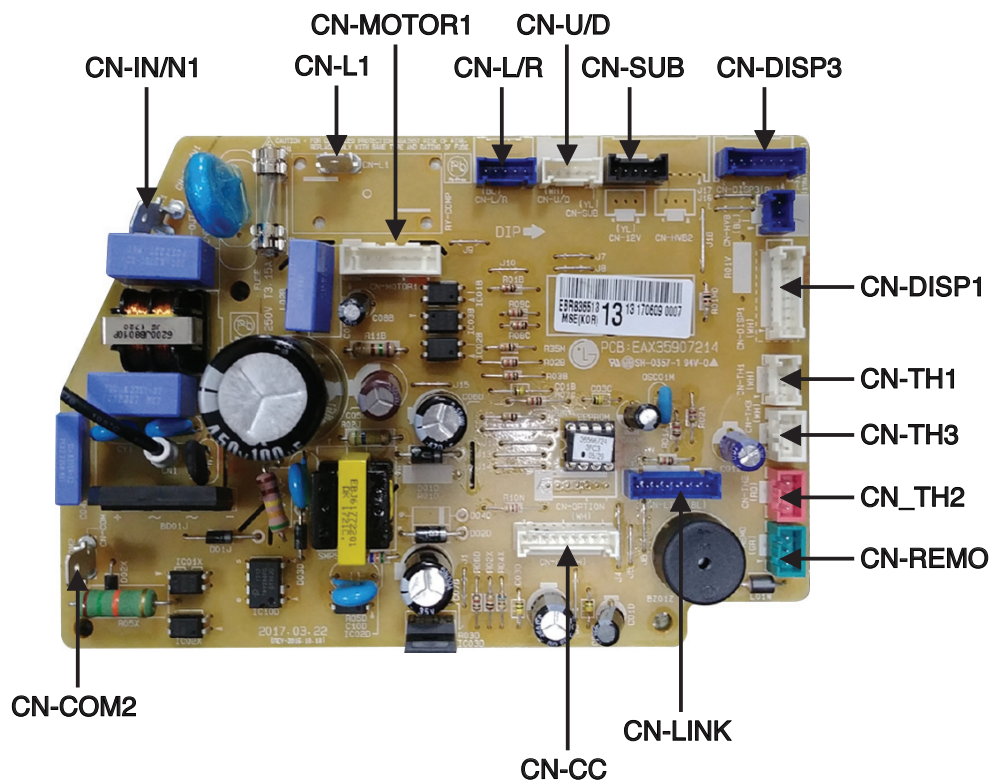
LAN090HSV5 (S4NW09JLRDA), LSN090HSV5 (S4NW09JL1DA)

LAN120HSV5 (S4NW12JLRDA), LSN120HSV5 (S4NW12JL1DA)

LAN180HSV5 (S4NW18KPRDA), LSN180HSV5 (S4NW18KP1DA)

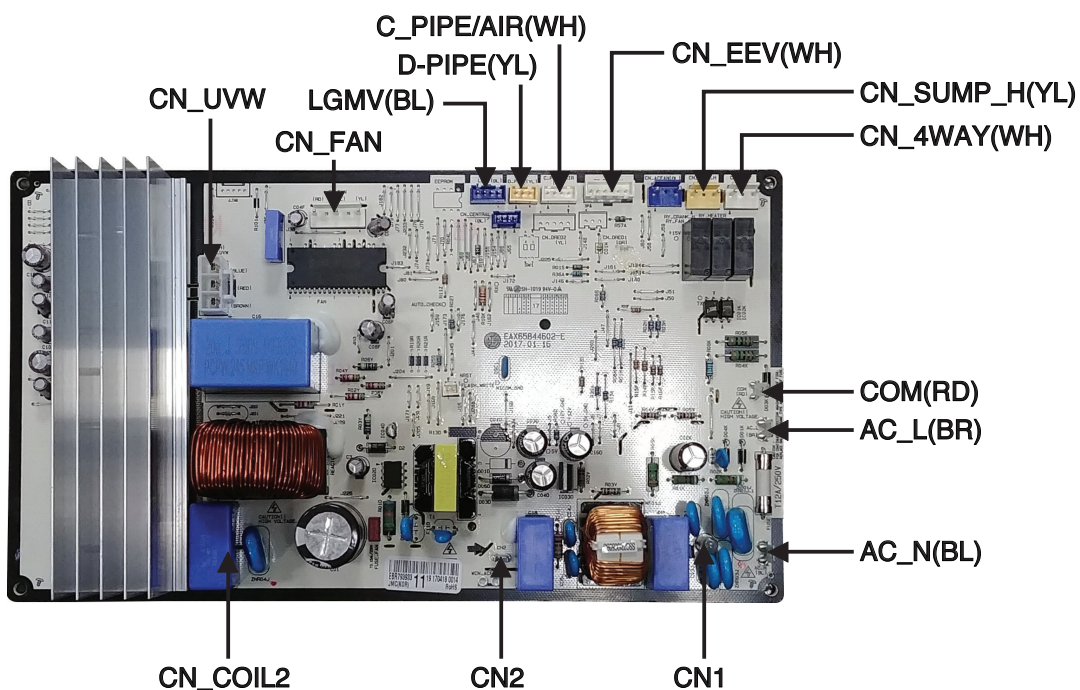
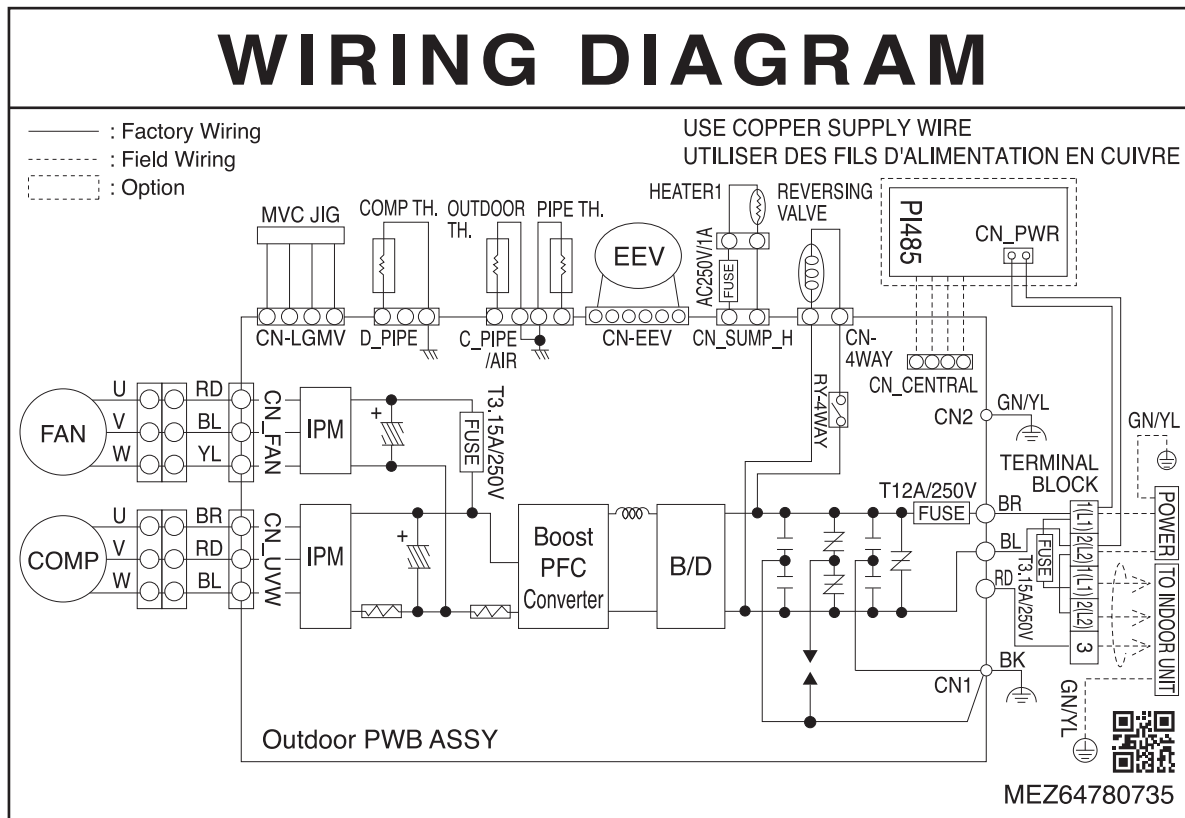


\* Auxiliary heater relay kit is not available on single zone wall mounted models.

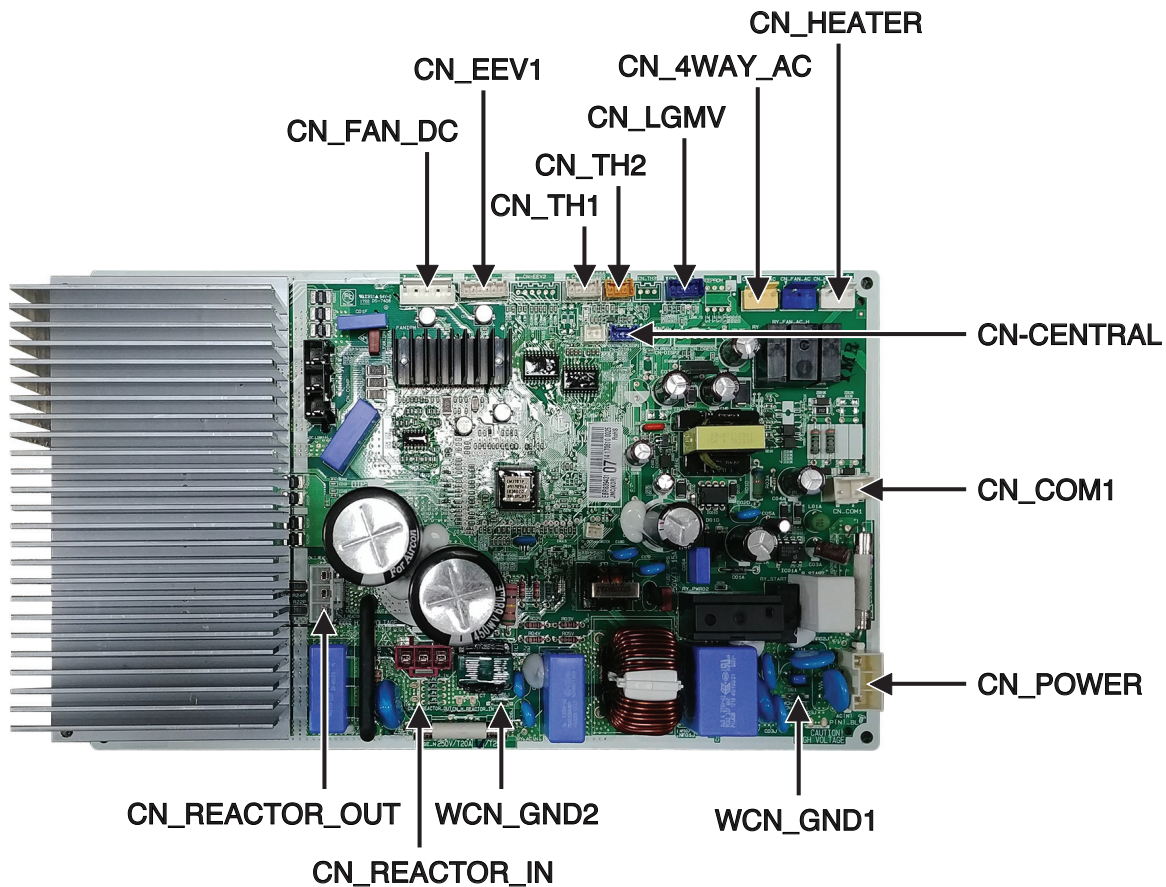
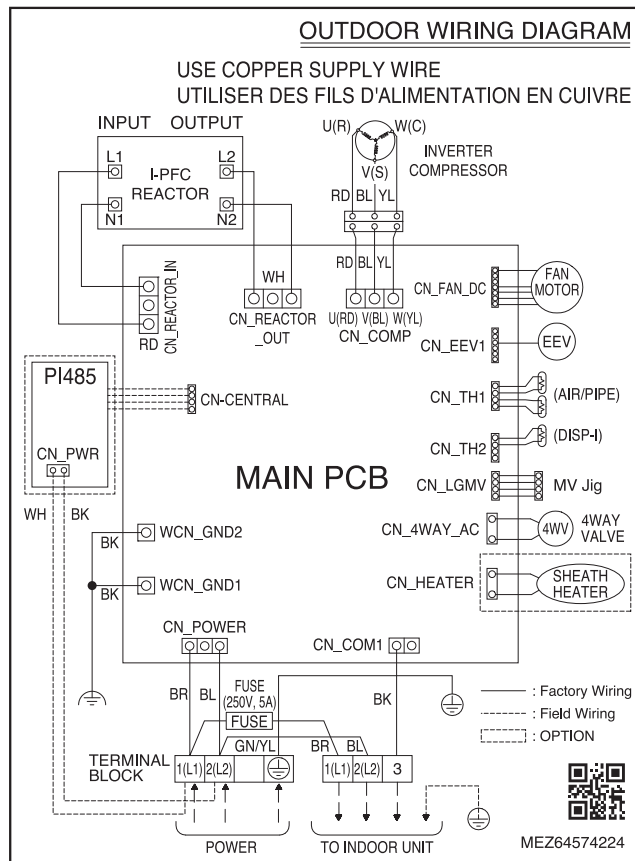


## Outdoor Unit

LSU090HSV5 (S4UW09JLRDA), LSU120HSV5 (S4UW12JLRDA)

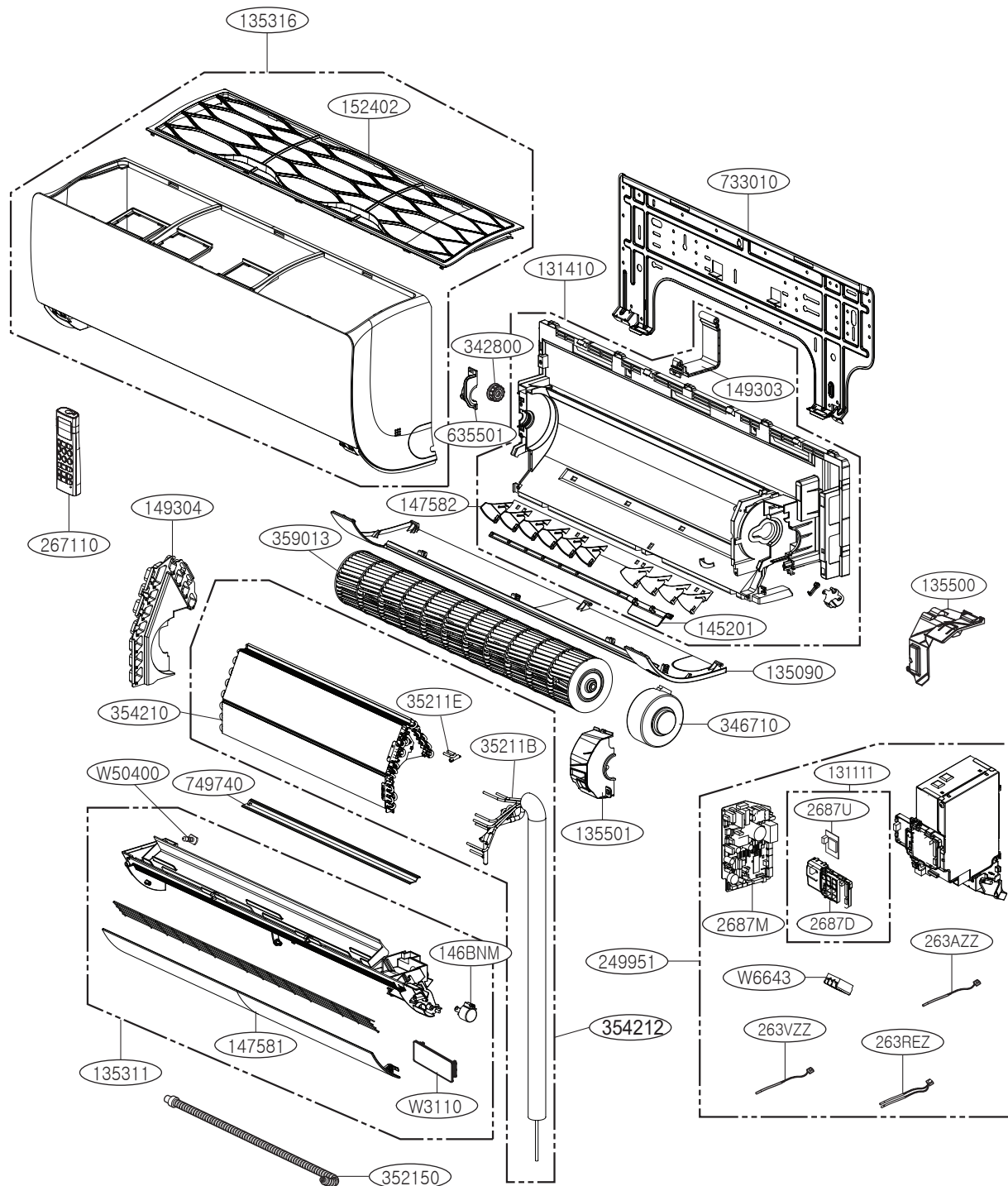


## LSU180HSV5 (S4UW18KPRDA)



## 5. Exploded View

### Indoor Unit

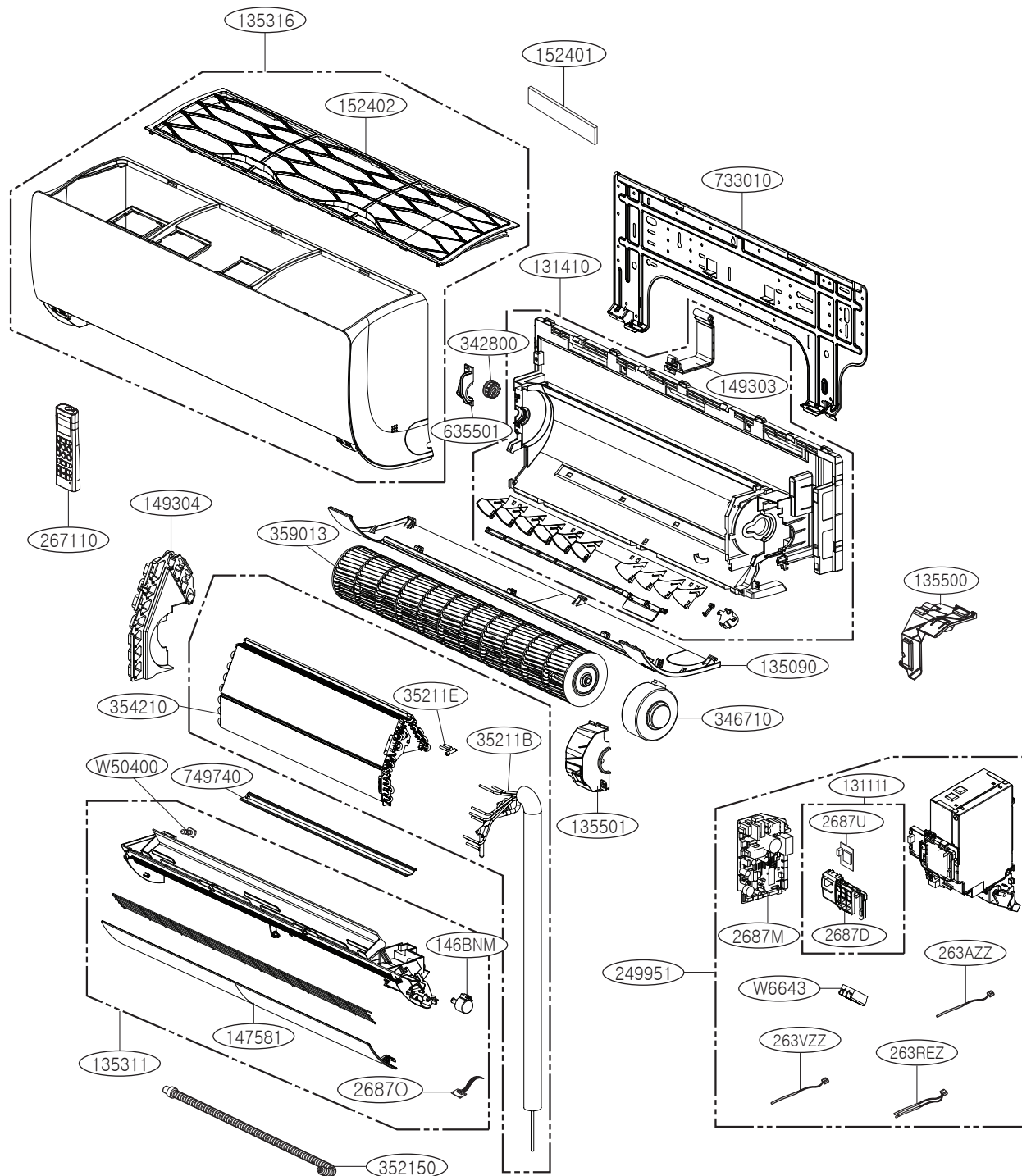


| LOC.   | Description                                  | Connector |
|--------|----------------------------------------------|-----------|
| 263REZ | Thermistor for indoor air temperature        | CN-TH1    |
|        | Thermistor for evaporator inlet temperature  |           |
| 263VZZ | Thermistor for evaporator middle temperature | CN-TH3    |
| 263AZZ | Thermistor for evaporator outlet temperature | CN-TH2    |

Note) Please ensure GCSC since the replacement parts may be changed depending upon the buyer's request. Please check the correct parts in View RPL(Replacement Part List) on GCSC. (GCSC Website <http://www.lge.com>)

## 5. Exploded View

### Indoor Unit (S4NW09JL1DA / S4NW12JL1DA)

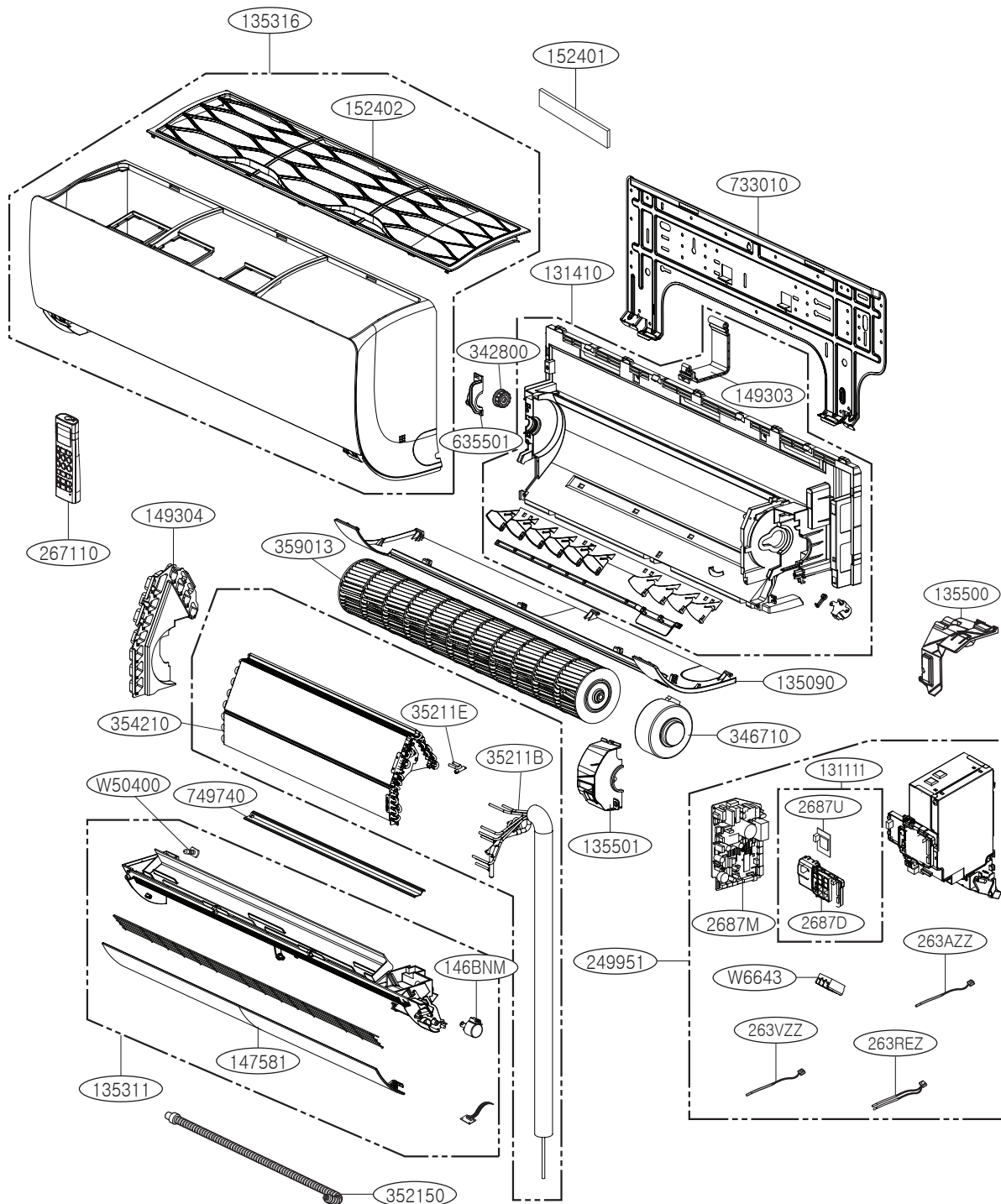


| LOC.   | Description                                  | Connector |
|--------|----------------------------------------------|-----------|
| 263REZ | Thermistor for indoor air temperature        | CN-TH1    |
|        | Thermistor for evaporator inlet temperature  |           |
| 263VZZ | Thermistor for evaporator middle temperature | CN-TH3    |
| 263AZZ | Thermistor for evaporator outlet temperature | CN-TH2    |

Note) Please ensure GCSC since the replacement parts may be changed depending upon the buyer's request. Please check the correct parts in View RPL(Replacement Part List) on GCSC. (GCSC Website <http://www.lge.com>)

## 5. Exploded View

### Indoor Unit (S4NW09JLRDA / S4NW12JLRDA)

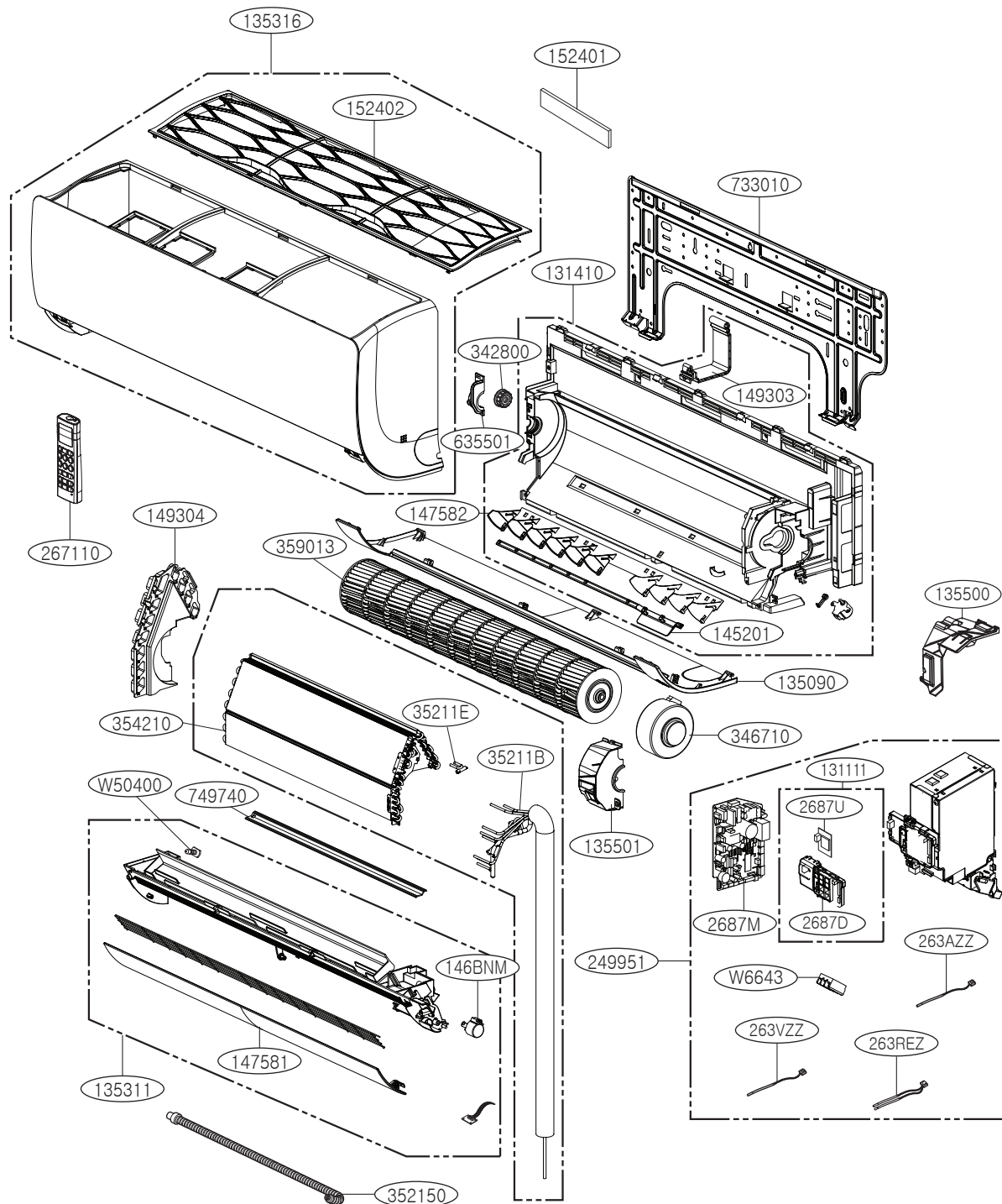


| LOC.   | Description                                  | Connector |
|--------|----------------------------------------------|-----------|
| 263REZ | Thermistor for indoor air temperature        | CN-TH1    |
|        | Thermistor for evaporator inlet temperature  |           |
| 263VZZ | Thermistor for evaporator middle temperature | CN-TH3    |
| 263AZZ | Thermistor for evaporator outlet temperature | CN-TH2    |

Note) Please ensure GCSC since the replacement parts may be changed depending upon the buyer's request. Please check the correct parts in View RPL(Replacement Part List) on GCSC. (GCSC Website <http://www.lge.com>)

## 5. Exploded View

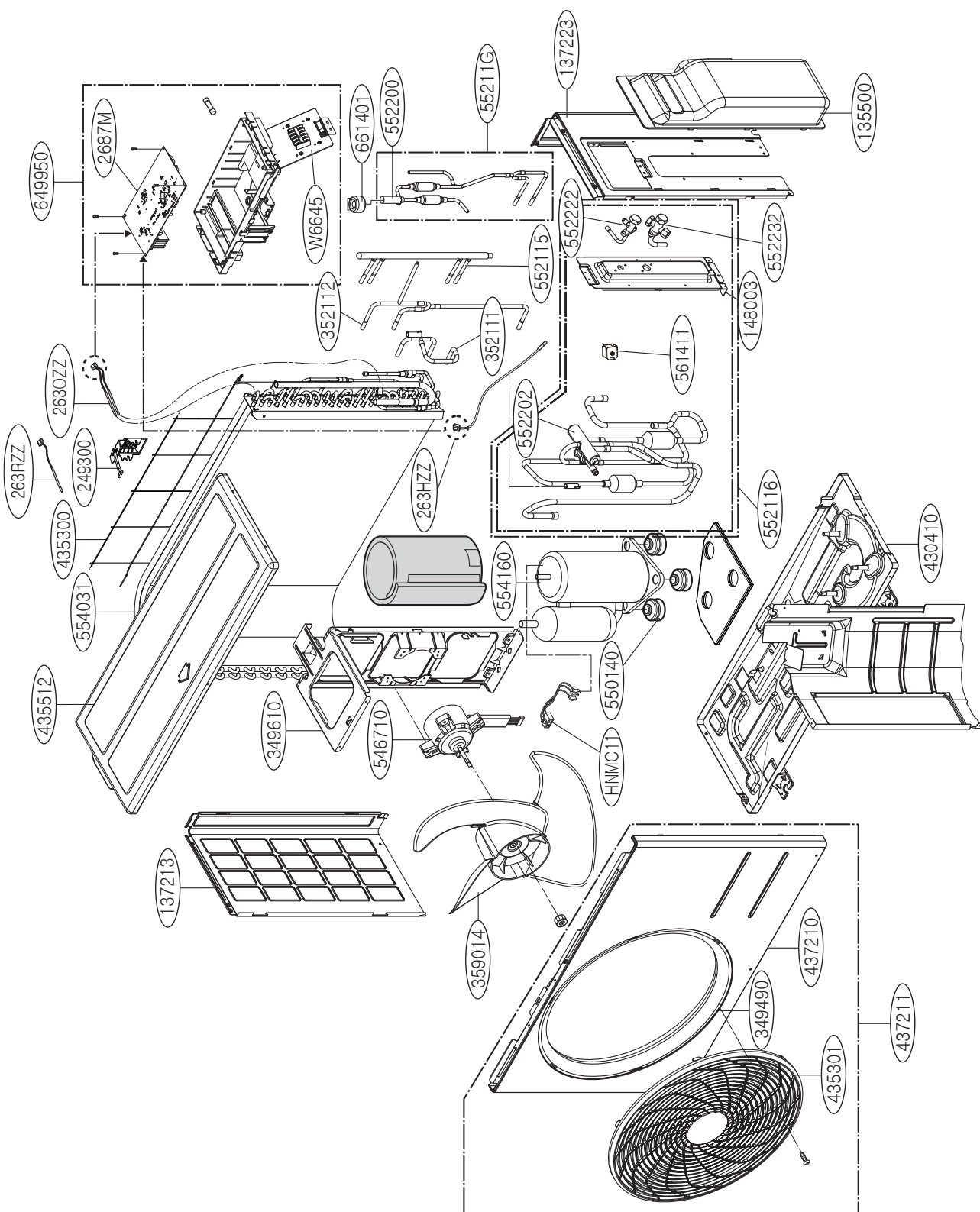
### Indoor Unit (S4NW18KPRDA)



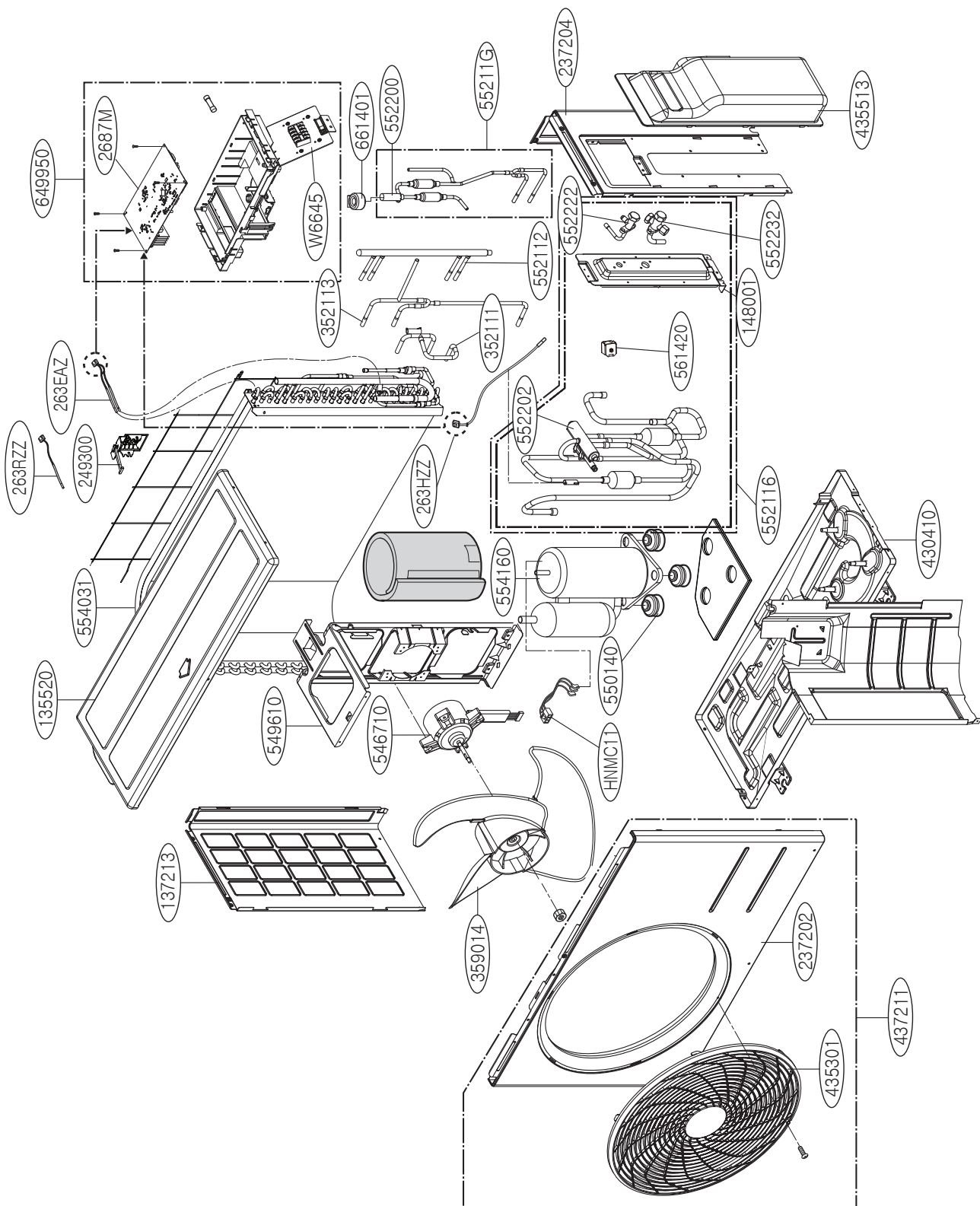
| LOC.   | Description                                  | Connector |
|--------|----------------------------------------------|-----------|
| 263REZ | Thermistor for indoor air temperature        | CN-TH1    |
|        | Thermistor for evaporator inlet temperature  |           |
| 263VZZ | Thermistor for evaporator middle temperature | CN-TH3    |
| 263AZZ | Thermistor for evaporator outlet temperature | CN-TH2    |

Note) Please ensure GCSC since the replacement parts may be changed depending upon the buyer's request. Please check the correct parts in View RPL(Replacement Part List) on GCSC. (GCSC Website <http://www.lge.com>)

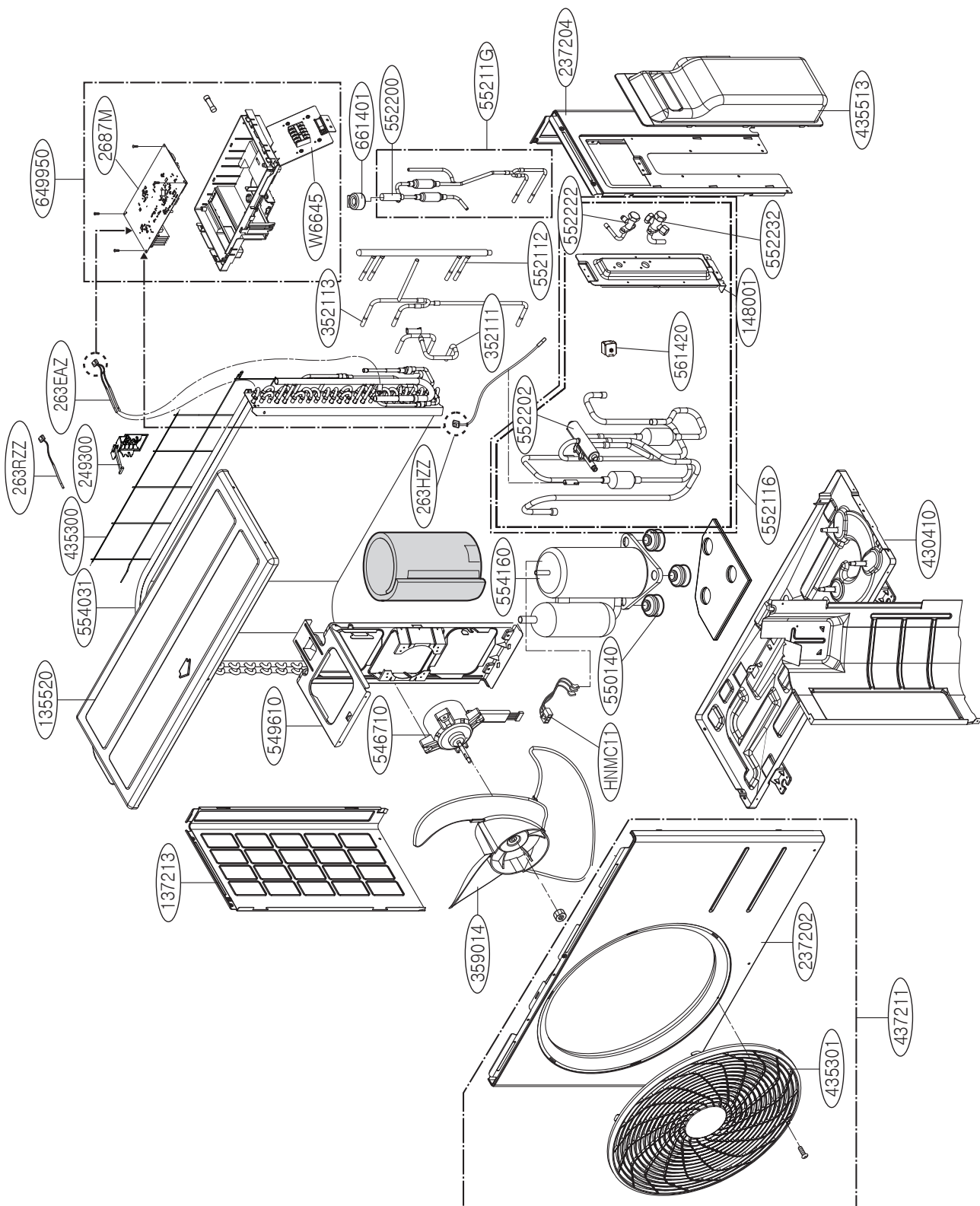
## Outdoor Unit



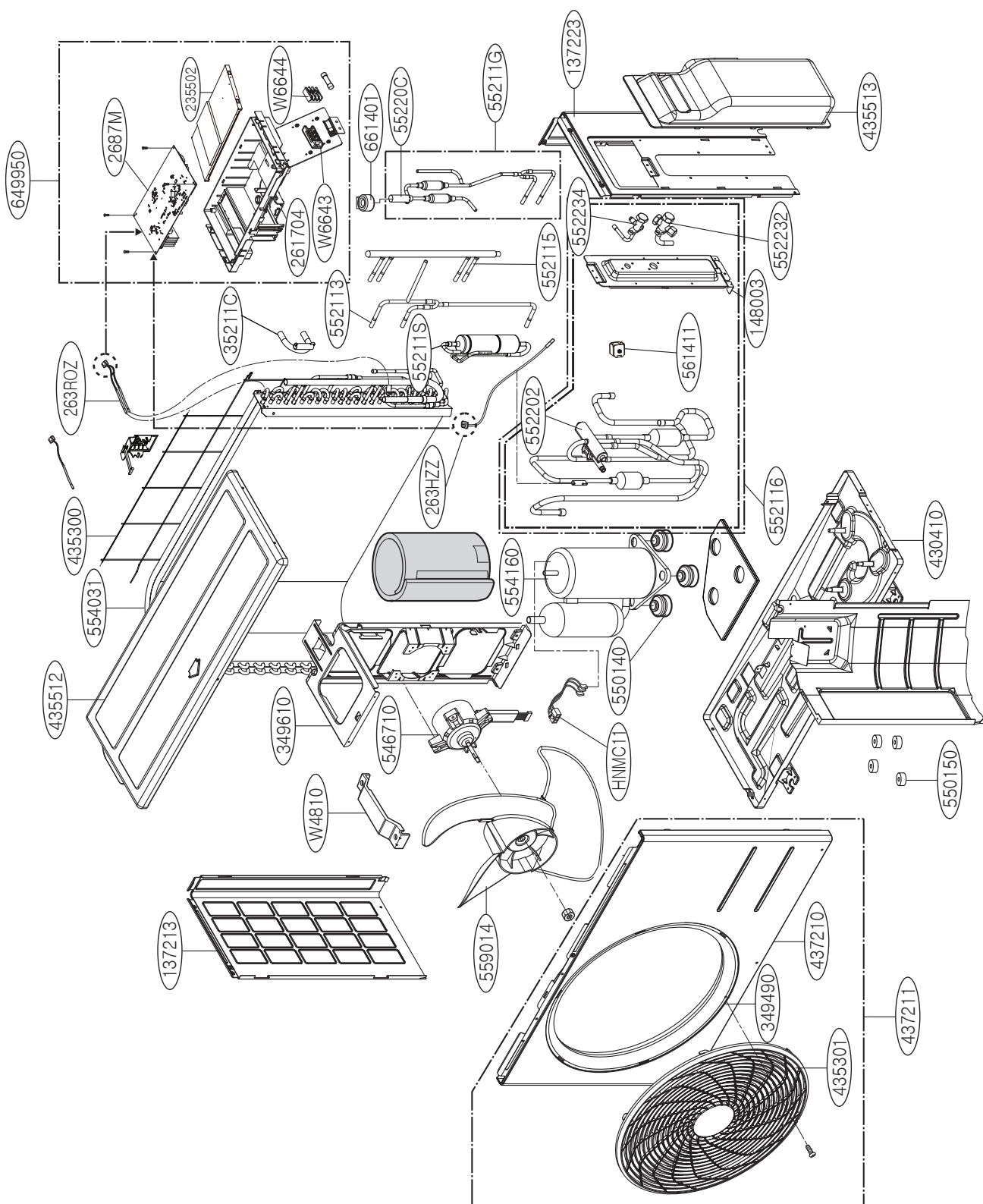
## Outdoor Unit (S4UW09JLRDA)



## Outdoor Unit (S4UW12JLRDA)



## Outdoor Unit (S4UW18KPRDA)





|        |                                                                                                                                                                                                                      |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| US     | 1. Please call the installing contractor of your product, as warranty service will be provided by them.<br>2. If you have service issues that have not been addressed by the contractor, please call 1-888-865-3026. |
| CANADA | Service call Number # : (888) LG Canada, (888) 542-2623                                                                                                                                                              |

P/NO : MFL67501934