



Internal Use Only

<http://biz.lgservice.com>

# Wall Mounted Air Conditioner **SVC MANUAL(Exploded View)**

**MODEL : AMNW07GDBL1 [LMN077HVT]  
AMNW09GDBL1 [LMN097HVT]  
AMNW12GDBL1 [LMN127HVT]  
AMNW15GDBL1 [LMN157HVT]**

## **CAUTION**

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

# 1. Specification

## Indoor

| Model                        |                               |             | AMNW07GDBL1<br>[LMN077HVT]            | AMNW09GDBL1<br>[LMN097HVT] |
|------------------------------|-------------------------------|-------------|---------------------------------------|----------------------------|
| Power Supply                 |                               | Ø, V, Hz    | 1, 208/230, 60                        | 1, 208/230, 60             |
| Capacity(*)                  |                               | Btu/h Class | 7,000                                 | 9,000                      |
| Current                      | Running Current               | A           | 0.2                                   | 0.2                        |
| Fan                          | Motor Type                    |             | BLDC                                  | BLDC                       |
|                              | Fan Type                      |             | Cross Flow Fan                        | Cross Flow Fan             |
|                              | Motor Output(W) x No. of Unit |             | 14.4 x 1                              | 14.4 x 1                   |
|                              | Air Flow Rate<br>(H / M / L)  | CMM         | 5.6 / 5.0 / 4.6                       | 7.0 / 6.5 / 6.0            |
|                              |                               | CFM         | 198 / 177 / 162                       | 247 / 230 / 212            |
|                              | External Static Pressure      | mmAq        | -                                     | -                          |
|                              | Capacitor                     | µF / Vac    | -                                     | -                          |
|                              | Drive                         |             | Direct Drive                          | Direct Drive               |
| Coil                         | Row x Column x FPI            |             | 2R x 16C x 23                         | 2R x 16C x 23              |
| Dimensions<br>(W x H x D)    | Body                          | mm          | 895 x 289 x 210                       | 895 x 289 x 210            |
|                              |                               | inch        | 35-1/4 x 11-3/8 x 8-9/32              | 35-1/4 x 11-3/8 x 8-9/32   |
|                              | Decorative Panel              | mm          | -                                     | -                          |
|                              |                               | inch        | -                                     | -                          |
| Net Weight                   | Body                          | kg (lbs)    | 9.5(20.9)                             | 9.5(20.9)                  |
|                              | Decorative Panel              | kg (lbs)    | -                                     | -                          |
| Air Filter                   |                               |             | Long Life Filter                      | Long Life Filter           |
| Sound Level (H / M / L)      |                               | dB(A)+3     | 33 / 30 / 26                          | 33 / 30 / 27               |
| Piping                       | Liquid                        | mm (inch)   | 6.35 (1/4)                            | 6.35 (1/4)                 |
| Connections                  | Gas                           | mm (inch)   | 9.52 (3/8)                            | 9.52 (3/8)                 |
|                              | Drain(OD/ID)                  | mm(inch)    | 21.5/16 (0.846/0.630)                 | 21.5/16 (0.846/0.630)      |
| Dehumidification Rate        |                               | l/h         | 1.1                                   | 1.1                        |
| Safety Devices               |                               |             | Fuse, Thermal Protector for Fan Motor |                            |
| Temperature Sensor           |                               |             | Thermistor                            | Thermistor                 |
| Refrigerant                  |                               |             | R410A                                 | R410A                      |
| Refrigerant Control          |                               |             | EEV(in Outdoor unit or BD)            | EEV(in Outdoor unit or BD) |
| Transmission Interunit Cable |                               | No. x AWG   | 4×18(including earth)                 | 4×18(including earth)      |

### Note:

1. Capacities are based on the following conditions:

Cooling: - Indoor Temperature 27°C(80.6°F) DB/19°C(66.2°F) WB  
 - Outdoor Temperature 35°C(95°F) DB/24°C(75.2°F) WB

Heating: - Indoor Temperature 20°C(68°F) DB/15°C(59°F) WB  
 - Outdoor Temperature 7°C(44.6°F) DB/6°C(42.8°F) WB

Piping Length - Interconnecting Piping Length 7.5m  
 - Level Difference of Zero

2. Wiring cable size must comply with the applicable local and national code.

3. The specification may be subject to change without prior notice for purpose of improvement.

### Conversion Formula

kW = Btu/h x 0.0002931

cfm = CMM x 35.3

| Model                        |                               |             | AMNW12GDBL1<br>[LMN127HVT]            | AMNW15GDBL1<br>[LMN157HVT] |
|------------------------------|-------------------------------|-------------|---------------------------------------|----------------------------|
| Power Supply                 |                               | Ø, V, Hz    | 1, 208/230, 60                        | 1, 208/230, 60             |
| Capacity(*)                  |                               | Btu/h Class | 12,000                                | 14,300                     |
| Current                      | Running Current               | A           | 0.2                                   | 0.2                        |
| Fan                          | Motor Type                    |             | BLDC                                  | BLDC                       |
|                              | Fan Type                      |             | Cross Flow Fan                        | Cross Flow Fan             |
|                              | Motor Output(W) x No. of Unit |             | 14.4 x 1                              | 14.4 x 1                   |
|                              | Air Flow Rate<br>(H / M / L)  | CMM         | 9.5 / 9.0 / 8.5                       | 10.5 / 9.0 / 7.0           |
|                              |                               | CFM         | 336 / 318 / 300                       | 371 / 318 / 247            |
|                              | External Static Pressure      | mmAq        | -                                     | -                          |
|                              | Capacitor                     | µF / Vac    | -                                     | -                          |
|                              | Drive                         |             | Direct Drive                          | Direct Drive               |
| Coil                         | Row x Column x FPI            |             | 2R x 16C x 23                         | 2R x 16C x 23              |
| Dimensions<br>(W x H x D)    | Body                          | mm          | 895 x 289 x 210                       | 895 x 289 x 210            |
|                              |                               | inch        | 35-1/4 x 11-3/8 x 8-9/32              | 35-1/4 x 11-3/8 x 8-9/32   |
|                              | Decorative Panel              | mm          | -                                     | -                          |
|                              |                               | inch        | -                                     | -                          |
| Net Weight                   | Body                          | kg (lbs)    | 9.5(20.9)                             | 9.5(20.9)                  |
|                              | Decorative Panel              | kg (lbs)    | -                                     | -                          |
| Air Filter                   |                               |             | Long Life Filter                      | Long Life Filter           |
| Sound Level (H / M / L)      |                               | dB(A)+3     | 39 / 36 / 31                          | 43 / 39 / 34               |
| Piping                       | Liquid                        | mm (inch)   | 6.35 (1/4)                            | 6.35 (1/4)                 |
| Connections                  | Gas                           | mm (inch)   | 9.52 (3/8)                            | 9.52 (3/8)                 |
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| Dehumidification Rate        |                               | l/h         | 1.2                                   | 1.2                        |
| Safety Devices               |                               |             | Fuse, Thermal Protector for Fan Motor |                            |
| Temperature Sensor           |                               |             | Thermistor                            | Thermistor                 |
| Refrigerant                  |                               |             | R410A                                 | R410A                      |
| Refrigerant Control          |                               |             | EEV(in Outdoor unit or BD)            | EEV(in Outdoor unit or BD) |
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- Piping Length - Interconnecting Piping Length 7.5m
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2. Wiring cable size must comply with the applicable local and national code.

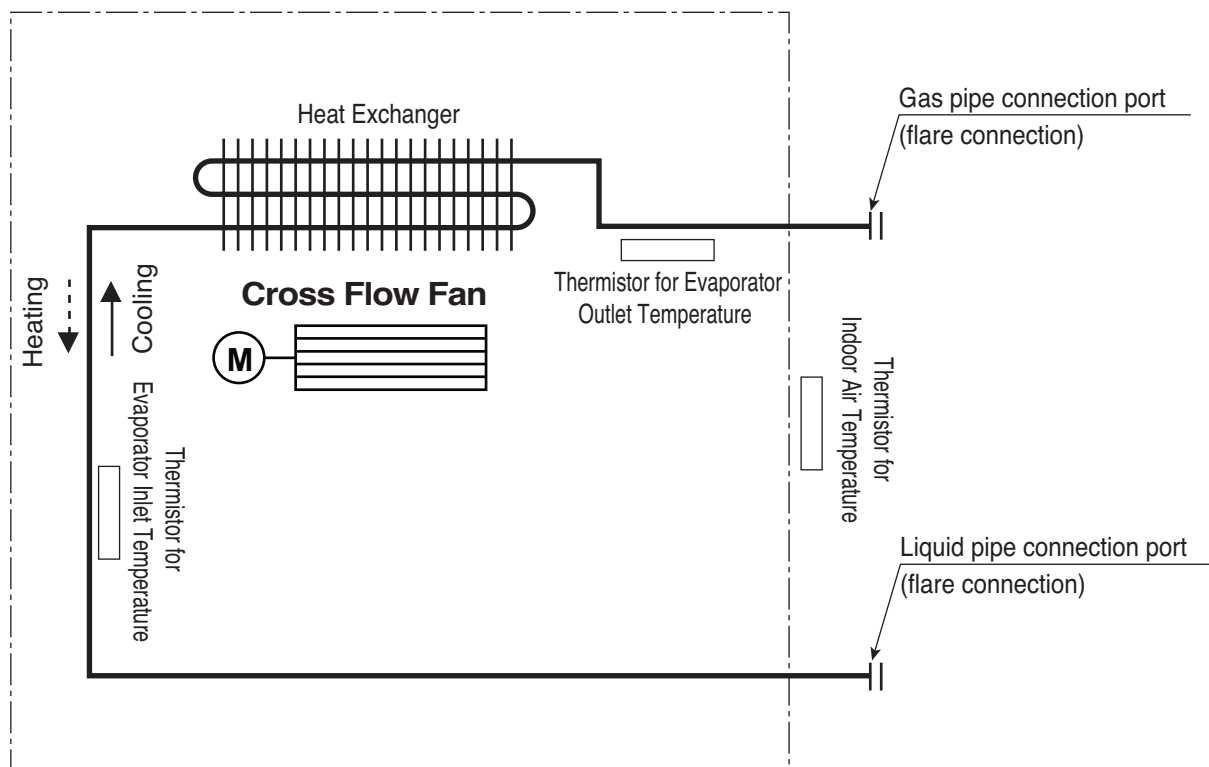
3. The specification may be subject to change without prior notice for purpose of improvement.

Conversion Formula

$$\text{kW} = \text{Btu/h} \times 0.0002931$$

$$\text{cfm} = \text{CMM} \times 35.3$$

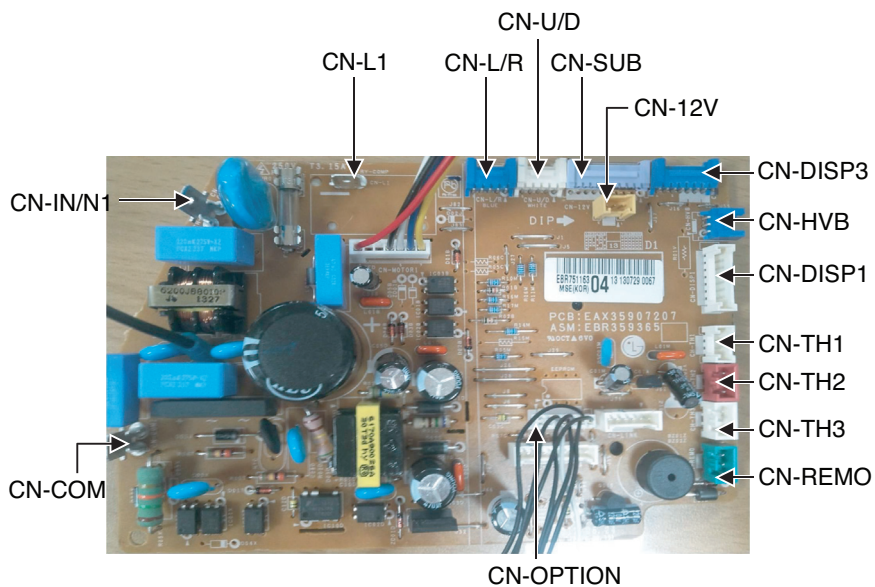
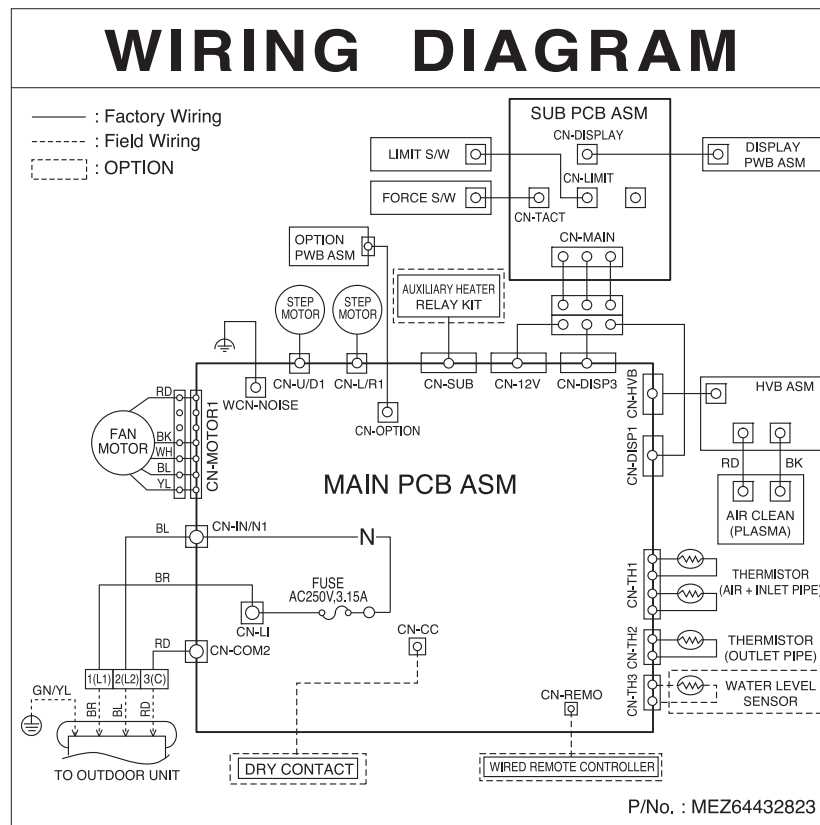
## 2. Piping Diagrams



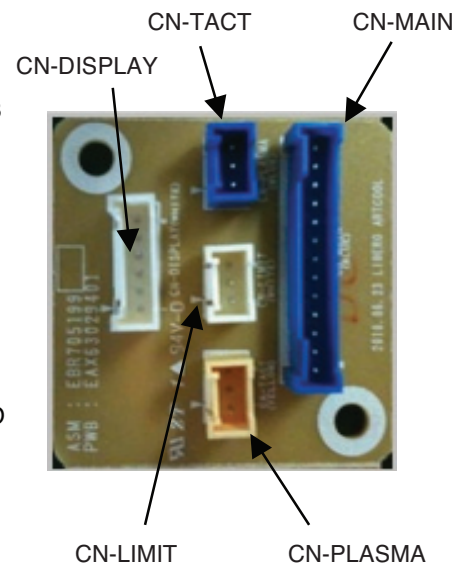
| Description                                  | PCB Connector |
|----------------------------------------------|---------------|
| Thermistor for Indoor Air Temperature        | CN-TH1        |
| Thermistor for Evaporator Inlet Temperature  |               |
| Thermistor for Evaporator Outlet Temperature | CN-TH2        |

### 3. Wiring Diagrams

#### Indoor Unit

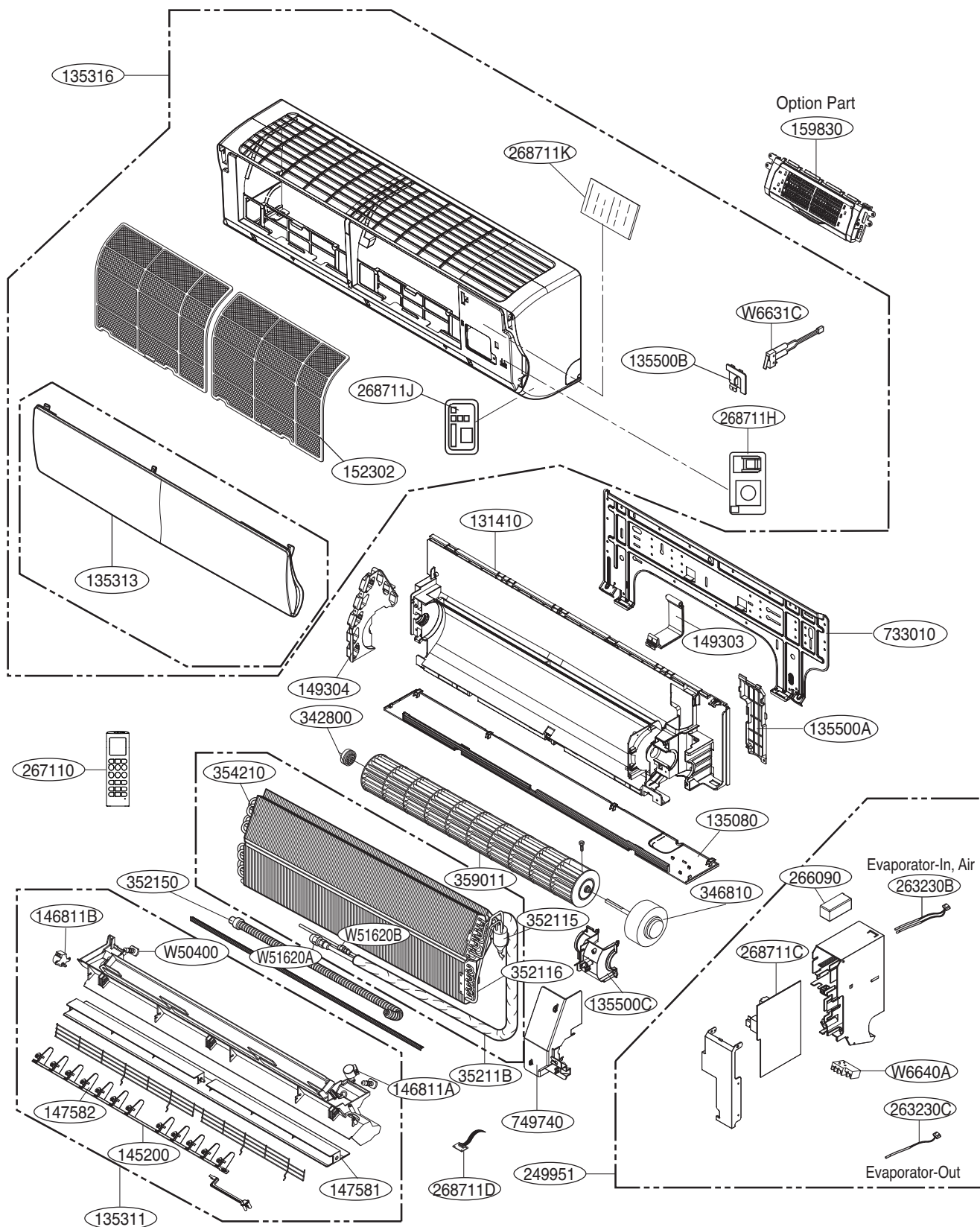


**Main PCB**



**Sub PCB**

## 4. Exploded View





P/NO : MFL67482722

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