

# 1. Specification

| Buyer Model<br>Factory Model         |                           | Single split Model       |           |   |                            |         |      |
|--------------------------------------|---------------------------|--------------------------|-----------|---|----------------------------|---------|------|
|                                      |                           | Set (Indoor / Outdoor)   | Unit      | AC18BQ.SSK (AC18BQ.NSK/AC18BQ.UL2)<br>S3-M18KLRZA (S3NM18KLRZA/S3UM18KLRZA) |                            |         |      |
| Capacity                             | Cooling                   | Min ~ Rated ~ Max        | kW        | 0.90  | 5.00                       | 5.50    |      |
|                                      | Heating                   | Min ~ Rated ~ Max        | Btu/h     | 3,073   | 17,072                     | 18,779  |      |
|                                      |                           | Heating -7 °C            | Rated     | kW  | 0.90                       | 5.80    | 6.40 |
| Power Input                          | Cooling                   | Min ~ Rated ~ Max        | W         | 210   | 1,562                      | 1,940   |      |
|                                      | Heating                   | Min ~ Rated ~ Max        | W         | 210   | 1,611                      | 2,000   |      |
| Running Current                      | Cooling                   | Min ~ Rated ~ Max        | A         | 1.20  | 6.90                       | 9.00    |      |
|                                      | Heating                   | Min ~ Rated ~ Max        | A         | 1.20  | 7.10                       | 9.50    |      |
| EER                                  |                           |                          | WW        |   | 3.20                       |         |      |
| SEER                                 |                           |                          | (Btu/h)/W |   | 10.93                      |         |      |
| COP                                  |                           |                          | -         |   | 7.00                       |         |      |
| SCOP                                 |                           |                          | WW        |   | 3.60                       |         |      |
| Energy Label Grade                   | Cooling / Heating         |                          | (Btu/h)/W |   | 12.29                      |         |      |
| Annual Energy Consumption            | Cooling / Heating         |                          | -         |   | 4.30                       |         |      |
| Power Supply                         |                           |                          | kWh/year  |   | A++ / A+                   |         |      |
| Available Voltage Range              |                           |                          | O, V, Hz  | 1   | 250 / 1270                 |         |      |
| Power Factor                         | Cooling / Heating         |                          | V         |   | 220-240                    | 50      |      |
| Moisture Removal                     |                           |                          | %         |   | 187 ~ 276                  |         |      |
| Indoor                               | Air Flow Rate             | Cooling, Max / H / M / L | m³/min    |   | 15.5 / 14.5 / 13.0 / 10.5  |         |      |
|                                      |                           | Heating, Max / H / M / L | m³/min    |   | 18.5 / 16.0 / 13.5 / 11.0  |         |      |
|                                      | Sound Pressure Level      | Cooling, H / M / L / SL  | dB(A)     |   | 44 / 39 / 34 / 31          |         |      |
|                                      |                           | Heating, H / M / L       | dB(A)     |   | 44 / 39 / 34               |         |      |
|                                      | Sound Power Level         |                          | dB(A)     |   | 60                         |         |      |
|                                      | Dimensions (W x H x D)    | Net                      | mm        | 998   | 345                        | 212     |      |
|                                      |                           | Shipping                 | mm        | 1089  | 428                        | 298     |      |
|                                      | Weight                    | Net                      | kg        |   | 12.8                       |         |      |
|                                      | Shipping                  | kg                       |           | 17.4  |                            |         |      |
| Exterior Color Code                  |                           |                          |           |   | Munsell 7.5PB 0.2/20       |         |      |
| Outdoor                              | Air Flow Rate             | Max                      | m³/min    |   | 35                         |         |      |
|                                      | Sound Pressure Level      | Cooling, Rated           | dB(A)     |   | 53                         |         |      |
|                                      |                           | Heating, Rated           | dB(A)     |   | 55                         |         |      |
|                                      | Sound Power Level         |                          | dB(A)     |   | 65                         |         |      |
|                                      | Dimensions (W x H x D)    | Net                      | mm        | 770   | 545                        | 288     |      |
|                                      |                           | Shipping                 | mm        | 925   | 593                        | 393     |      |
|                                      | Weight                    | Net                      | kg        |   | 35.2                       |         |      |
|                                      |                           | Shipping                 | kg        |   | 37.8                       |         |      |
| Max. Fuse Size                       |                           | A                        |           | 20  |                            |         |      |
| Exterior Color Code                  |                           |                          |           |   | Munsell 9.54Y 8.34/1.31    |         |      |
|                                      |                           |                          |           |   | RAL 9001                   |         |      |
| Operation Range                      | Cooling                   | °C DB                    |           |   | -15 ~ 48                   |         |      |
|                                      | Heating                   | °C WB                    |           |   | -10 ~ 18                   |         |      |
| Compressor                           | Type                      |                          |           |   | Twin Rotary                |         |      |
|                                      | Model                     |                          |           |   | DAT156MCA                  |         |      |
|                                      | Motor Type                |                          |           |   | BLDC                       |         |      |
|                                      | Oil Type / Maker          |                          |           |   | FW68D                      |         |      |
|                                      | Oil Charge                |                          | cc        |   | 400                        |         |      |
|                                      | O.L.P. Name               |                          |           |   |                            |         |      |
| Manufacturer / Country of Origin     |                           |                          |           |   | LG Electronics / China     |         |      |
| Fan(Indoor)                          | Type                      |                          |           |   | Cross Flow Fan             |         |      |
|                                      | Motor Output              |                          | W         |   | 30                         |         |      |
| Fan(Outdoor)                         | Type                      |                          |           |   | Propeller Fan              |         |      |
|                                      | Motor Type                |                          |           |   | BLDC                       |         |      |
|                                      | Motor Output              |                          | W         |   | 43                         |         |      |
|                                      | Motor Insulation          |                          |           |   | Class E                    |         |      |
| Motor Enclosure / Ingress Protection |                           |                          | TEAO      |   | IPX4                       |         |      |
| Heat Exchanger                       | Evaporator                | Material, Tube / Fin     |           |   | Cu / Al                    |         |      |
|                                      |                           | Fin Spacing              | FPI       |   | 20                         |         |      |
|                                      |                           | Corrosion Protection     |           |   | PCM                        |         |      |
|                                      | Condenser                 | Material, Tube / Fin     |           |   |                            | Cu / Al |      |
|                                      |                           | Fin Spacing              | FPI/FPDM  |   |                            | 18 FPI  |      |
|                                      |                           | Corrosion Protection     |           |   |                            | Gold    |      |
| Circuit Breaker                      |                           | A                        |           | 20  |                            |         |      |
| Power Supply Cable                   |                           | No. x mm²                |           | 3 x 1.5   |                            |         |      |
| Power Supply to Unit                 |                           |                          |           | Outdoor   |                            |         |      |
| Power and Transmission Cable         |                           | No. x mm²                |           | 4 x 1.0   |                            |         |      |
| Piping                               | Size                      | Liquid                   | mm        |   | Ø 6.35                     |         |      |
|                                      |                           |                          | in.       |   | Ø 1/4                      |         |      |
|                                      | Gas                       | mm                       |           |   | Ø 12.7                     |         |      |
|                                      |                           | in.                      |           |   | Ø 1/2                      |         |      |
| Connections Method                   | Indoor / Outdoor          |                          |           | Flared / Flared   |                            |         |      |
| Drain Hose Size                      | O.D. I.D                  | mm                       |           | 21.5, 16.0  |                            |         |      |
| Between Indoor & Outdoor             | Piping Length             | Min / Standard / Max     | m         | 3   | 7.5                        | 20      |      |
|                                      |                           | No Charge                | m         |   | 7.5                        |         |      |
|                                      | Max. Elevation Difference |                          | m         |   | 10                         |         |      |
| Refrigerant                          | Type                      |                          |           |   | R32                        |         |      |
|                                      | Pre Charge                |                          | g         |   | 1000                       |         |      |
|                                      | Additional Charge         |                          | g/m       |   | 20                         |         |      |
|                                      | Control                   |                          |           |   | Electronic Expansion Valve |         |      |
| Defrost Method                       |                           |                          |           |   | Reverse Cycle              |         |      |
| Tool Code (Chassis)                  | Indoor / Outdoor          |                          |           |   | SK / UL2                   |         |      |

## Note

— : No Relation

- For Circuit Breaker Rating, please conform to local standards whenever necessary.
- Exterior color code is approximate value.
- Due to our policy of innovation some specifications may be changed without notifications.
- When mechanical connectors are reused indoors, sealing parts shall be renewed.
- When flared joints are reused indoors, the flare part shall be re-fabricated.

## Conversion Formula

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

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

## Multi Model

| Buyer Model         | Indoor                    |          | Unit      | AC18BQ.NSK          |      |     |     |
|---------------------|---------------------------|----------|-----------|---------------------|------|-----|-----|
| Factory Model       |                           |          |           | S3NM18KLRZA         |      |     |     |
| Power Supply        |                           |          | Ø, V, Hz  | 1, 220-240, 50      |      |     |     |
| Power Input         | Cooling                   |          | W         | 60                  |      |     |     |
|                     | Heating                   |          | W         | 60                  |      |     |     |
| Running Current     | Cooling                   |          | A         | 0.4                 |      |     |     |
|                     | Heating                   |          | A         | 0.4                 |      |     |     |
| Indoor              | Air Flow Rate             |          | H / M / L | m <sup>3</sup> /min |      |     |     |
|                     | Sound Pressure Level      |          | H / M / L | dB(A)               |      |     |     |
|                     | Sound Power Level         |          |           | dB(A)               |      |     |     |
|                     | Dimensions<br>(W x H x D) |          | Net       | mm                  | 998  | 345 | 212 |
|                     |                           |          | Shipping  | mm                  | 1089 | 428 | 298 |
|                     | Weight                    |          | Net       | kg                  | 12.8 |     |     |
| Shipping            |                           |          | kg        | 17.4                |      |     |     |
| Fan(Indoor)         | Type                      |          | -         | Cross Flow Fan      |      |     |     |
|                     | Motor Output              |          | W         | 30                  |      |     |     |
| Piping              | Size                      | Liquid   | mm        | Ø 6.35              |      |     |     |
|                     |                           | Gas      | mm        | Ø 12.7              |      |     |     |
| Connections Method  |                           | Indoor   | -         | Flared              |      |     |     |
| Drain Hose Size     |                           | O.D, I.D | mm        | 21.5, 16.0          |      |     |     |
| Defrost Method      |                           |          | -         | Reverse Cycle       |      |     |     |
| Tool Code (Chassis) |                           | Indoor   | -         | SK                  |      |     |     |

### 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 7.5 m
- 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       |