

# 1. SPECIFICATIONS

| Nominal system capacity                     |  | HP                                 | 8                         | 10          | 12           |        |
|---|--|------------------------------------|---------------------------|-------------|--------------|--------|
| Model name                                  |  |                                    | AJ*072LELAH               | AJ*090LELAH | AJ*0108LELAH |        |
| Power source                                |  |                                    | 3N ~ 400 V, 50 Hz         |             |              |        |
| Available voltage range                     |  |                                    | 342 to 456 V              |             |              |        |
| Capacity                                    | Cooling                                | kW                                 | 22.4                      | 28.0        | 33.5         |        |
|   | Nominal Heating                        |                                    | 22.4                      | 28.0        | 33.5         |        |
|   | Max Heating                            |                                    | 25.0                      | 31.5        | 37.5         |        |
| Input power                                 | Cooling                                | kW                                 | 6.30                      | 8.59        | 10.42        |        |
|   | Nominal Heating                        |                                    | 4.65                      | 6.61        | 8.18         |        |
|   | Max Heating                            |                                    | 5.45                      | 8.29        | 10.25        |        |
| EER   | Cooling                                |                                    | 3.56                      | 3.26        | 3.22         |        |
| COP   | Nominal Heating                        | kW / kW                            | 4.82                      | 4.24        | 4.10         |        |
|   | Max Heating                            |                                    | 4.56                      | 3.80        | 3.66         |        |
| Fan   | Type × Quantity                        |                                    | Propeller Fan×2           |             |              |        |
|   | Airflow rate                           | High                               | m <sup>3</sup> / h        | 8,400       | 9,000        | 11,000 |
|   | Motor                                  | Type × Quantity                    |                           | DC motor×2  |              |        |
| Output                                      |  | W                                  | 111 x 2                   |             | 200 x 2      |        |
| Sound power level                           | Cooling                                | dB(A)                              | 66                        | 69          | 73           |        |
|   | Heating                                |                                    | -                         | -           | -            |        |
| Sound pressure level                        | Cooling                                | dB(A)                              | 52                        | 54          | 59           |        |
|   | Heating                                |                                    | 54                        | 57          | 61           |        |
| Heat exchanger                              | Length                                 | mm                                 | 1,293                     |             |              |        |
|   | Fin pitch                              |                                    | 1.45                      |             |              |        |
|   | Rows × Stages                          |                                    | 2 x 66                    | 2.6 x 66    |              |        |
|   | Pipe type (Material)                   |                                    | Grooved H-pin<br>(Copper) |             |              |        |
|   | Fin                                    | Type (Material)                    | Corrugate<br>(Aluminium)  |             |              |        |
| Surface treatment                           |  | Corrosion Resistance<br>(Blue Fin) |                           |             |              |        |
| Compressor                                  | Type × Quantity                        |                                    | Scroll(inv)×1             |             |              |        |
|   | Motor output                           | kW                                 | 4.70                      |             |              |        |
|   | Crankcase heater                       | W                                  | 35                        |             |              |        |
| Refrigerant                                 | Type                                   |                                    | R410A                     |             |              |        |
|   | Charge                                 | kg                                 | 7.0                       | 7.5         | 7.5          |        |
| Refrigerant oil                             | Type                                   |                                    | FVC68D                    |             |              |        |
|   | Oil charge unit                        | cm <sup>3</sup>                    | 2300                      |             |              |        |
| Enclosure                                   | Material                               |                                    | Painted galvanized steel  |             |              |        |
|   | Colour                                 |                                    | Beige<br>(10YR 7.5/1.0NN) |             |              |        |
| Dimensions<br>(H × W × D)                   | Net                                    | mm                                 | 1428 × 1080 × 480         |             |              |        |
|   | Gross                                  |                                    | 1557 × 1174 × 600         |             |              |        |
| Weight                                      | Net                                    | kg                                 | 170                       | 177         | 178          |        |
|   | Gross                                  |                                    | 188                       | 196         | 197          |        |
| Connection pipe                             | Pipe diameter                          | Liquid                             | 9.52                      |             | 12.70        |        |
|   |  | Gas                                | 19.05                     | 22.20       | 28.58        |        |
|   | Method                                 | Liquid                             | Brazing                   |             |              |        |
|   |  | Gas                                | Brazing                   |             |              |        |
|   | Max. length                            | m                                  | 120                       |             |              |        |
| Max. height difference                      | 50 / 40 (Outdoor unit : Upper / Lower) |                                    |                           |             |              |        |
| Operation temperature range                 | Cooling                                | °CDB                               | -15 to 46                 |             |              |        |
|   | Heating                                |                                    | -20 to 21                 |             |              |        |
| Defrost method                              |  |                                    | Reversed Cycle            |             |              |        |
| Compressor capacity control (Steps / Range) |  |                                    | 106 steps / 12.5 to 100%  |             |              |        |
| Connectable indoor units                    |  | Number                             | 1-20                      | 1-25        | 1-30         |        |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating : Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

The protective function might work when using it outside the operation range.