

# 1. SPECIFICATIONS

## 1-1. SPACE SAVING COMBINATION

|   |                                |                 |                               |  |             |                     |
|---|--------------------------------|-----------------|-------------------------------|--|-------------|---------------------|
| Nominal system capacity                     |                                |                 | HP                            | 8  | 10          | 12                  |
| Model name                                  |                                |                 |                               | AJ*072LALBH  | AJ*090LALBH | AJ*108LALBH         |
| Power source                                |                                |                 |                               | 3 Phase ~ 400 V, 50Hz                                    |             |                     |
| Available voltage range                     |                                |                 |                               | 342 to 456 V   |             |                     |
| Capacity                                    | Cooling                        | kW              |                               | 22.4   | 28.0        | 33.5                |
|   | Heating                        |                 |                               | 25.0   | 31.5        | 37.5                |
| Input power                                 | Cooling                        | kW              |                               | 5.20   | 7.28        | 8.96                |
|   | Heating                        |                 |                               | 5.17   | 7.25        | 8.65                |
| Current *1                                  | Cooling                        | Rated           | A                             | 9.2  | 12.0        | 15.0                |
|   | Heating                        |                 |                               | 9.2  | 12.2        | 14.6                |
| EER   | Cooling                        | W / W           |                               | 4.31   | 3.85        | 3.74                |
| COP   | Heating                        |                 |                               | 4.84   | 4.35        | 4.34                |
| Fan   | Type x Quantity                |                 |                               | Propeller fan x 1  |             |                     |
|   | Airflow rate                   | High            | m <sup>3</sup> / h<br>(l / s) | 11,100<br>(3,084)  |             | 13,000<br>(3,611)   |
|   | External static pressure (Max) |                 | Pa                            | 82   |             |                     |
|   | Motor                          | Type x Quantity | Output                        | DC motor x 1<br>750                                      |             |                     |
| Sound pressure level                        | Cooling                        | dB(A)           |                               | 56   | 58          | 57                  |
|   | Heating                        |                 |                               | 58   | 59          | 60                  |
| Heat exchanger                              | Length                         | mm              |                               | 1,760  |             | 2,070               |
|   | Fin pitch                      |                 |                               | 1.45   |             |                     |
|   | Rows x Stages                  |                 |                               | 3 x 60   |             |                     |
|   | Face area                      |                 | m <sup>2</sup>                | 2.2  |             | 2.6                 |
|   | Pipe type (Material)           |                 |                               | Grooved H-pin (Copper)                                   |             |                     |
|   | Fin                            | Type (Material) | Surface treatment             | Corrugate (Aluminium)<br>Corrosion resistance (Blue fin) |             |                     |
| Compressor                                  | Type x Quantity                |                 |                               | Rotary(inv) x 1  |             |                     |
|   | Motor output                   | kW              |                               | 7.5  |             | 11.0                |
|   | Crankcase heater               | W               |                               | 35 x 2   |             |                     |
| Refrigerant                                 | Type                           |                 |                               | R410A  |             |                     |
|   | Charge                         | kg              |                               | 11.7   |             | 11.8                |
| Refrigerant oil                             | Type                           |                 |                               | POE  |             |                     |
| Enclosure                                   | Material                       |                 |                               | Painted galvanized steel                                 |             |                     |
|   | Colour                         |                 |                               | Beige (10YR 7.5/1.0NN)                                   |             |                     |
| Dimensions (H x W x D)                      | Net                            | mm              |                               | 1,690 × 930 × 765  |             | 1,690 × 1,240 × 765 |
|   | Gross                          |                 |                               | 1,811 × 1,002 × 847                                      |             | 1,811 × 1,312 × 847 |
| Weight                                      | Net                            | kg              |                               | 252  |             | 275                 |
|   | Gross                          |                 |                               | 273  |             | 299                 |
| Connection pipe                             | Pipe diameter                  | Liquid          | mm                            | 12.70  |             |                     |
|   |                                | Gas             |                               | 22.22  |             | 28.58               |
|   | Method                         | Liquid          |                               | Brazing  |             |                     |
|   |                                | Gas             |                               | Brazing  |             |                     |
|   | Max. length                    |                 | m                             |  | 165         |                     |
| Max. height difference                      |                                |                 |                               | 50 / 40 (Outdoor unit : Higher / Lower)                  |             |                     |
| Operation temperature range                 | Cooling                        | °CDB            |                               | -15 to 46  |             |                     |
|   | Heating                        |                 |                               | -20 to 21  |             |                     |
| Defrost method                              |                                |                 |                               | Reversed cycle   |             |                     |
| Compressor capacity control (Steps / Range) |                                |                 |                               | 1001 steps / 15 to 115 rps                               |             |                     |
| Connectable indoor units                    |                                |                 | Number                        | 17   | 21          | 26                  |

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.

This data is based on following standard: EN14511, EN12102

\*1: Refer to the section Chapter 6 "4-2 power supply cable wiring" when selecting the circuit breaker.