

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 ³ / h (l / s) | 11,100 (3,084) | | 13,000 (3,611) |
| | External static pressure (Max) | | Pa | 82 | | |
| | Motor | Type x Quantity | Output | DC motor x 1 750 | | |
| 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 ² | 2.2 | | 2.6 |
| | Pipe type (Material) | | | Grooved H-pin (Copper) | | |
| | Fin | Type (Material) | Surface treatment | Corrugate (Aluminium) 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 x 930 x 765 | | 1,690 x 1,240 x 765 |
| | Gross | | | 1,811 x 1,002 x 847 | | 1,811 x 1,312 x 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.