

# DUCT CONNECTION MIDDLE AND HIGH STATIC PRESSURE TYPE (Heat Pump)


**R-410A**

| Model Name                         |                                                        |                                  |                                | 71                                                                              | 100                       | 125                | 140                | 100                                                                             | 125         | 140 |
|------------------------------------|--------------------------------------------------------|----------------------------------|--------------------------------|---------------------------------------------------------------------------------|---------------------------|--------------------|--------------------|---------------------------------------------------------------------------------|-------------|-----|
| Indoor unit                        |                                                        | FBQ71DV1                         |                                | FBQ100DV1                                                                       | FBQ125DV1                 | FBQ140DV1          | FBQ100DV1          | FBQ125DV1                                                                       | FBQ140DV1   |     |
| Outdoor unit                       |                                                        | RZQ71KCV4A                       |                                | RZQ100KCV4A                                                                     | RZQ125KCV4A               | RZQ140KCV4A        | RZQ100HAY4A        | RZQ125HAY4A                                                                     | RZQ140HAY4A |     |
| Power supply                       |                                                        |                                  |                                | Indoor unit : 1 Phase, 220-240 V, 50 Hz<br>Outdoor unit : 1 Phase, 240 V, 50 Hz |                           |                    |                    | Indoor unit : 1 Phase, 220-240 V, 50 Hz<br>Outdoor unit : 3 Phase, 415 V, 50 Hz |             |     |
| Cooling capacity <sup>1</sup>      |                                                        | kW                               | 7.1                            | 10.0                                                                            | 12.5                      | 13.1               | 10.0               | 12.5                                                                            | 13.1        |     |
| Rated (Min. - Max.)                |                                                        |                                  | (3.2-8.0)                      | (5.0-11.2)                                                                      | (5.7-14.0)                | (6.2-15.4)         | (5.0-11.2)         | (5.7-14.0)                                                                      | (6.2-15.4)  |     |
| Heating capacity <sup>2</sup>      |                                                        | kW                               | 8.0                            | 11.2                                                                            | 14.0                      | 16.0               | 11.2               | 14.0                                                                            | 16.0        |     |
| Rated (Min. - Max.)                |                                                        |                                  | (3.5-9.0)                      | (5.1-12.8)                                                                      | (6.0-16.2)                | (6.2-18.0)         | (5.1-12.8)         | (6.0-16.2)                                                                      | (6.2-18.0)  |     |
| Power consumption                  |                                                        | Cooling <sup>1</sup>             | kW                             | 2.22                                                                            | 3.17                      | 3.97               | 4.16               | 3.17                                                                            | 3.97        |     |
|                                    |                                                        | Heating <sup>2</sup>             | kW                             | 2.43                                                                            | 3.15                      | 3.95               | 4.68               | 3.15                                                                            | 3.95        |     |
| COP                                |                                                        | Cooling                          | W/W                            | 3.20                                                                            |                           |                    | 3.15               |                                                                                 |             |     |
|                                    |                                                        | Heating                          | W/W                            | 3.29                                                                            | 3.56                      | 3.54               | 3.42               | 3.56                                                                            | 3.54        |     |
| Indoor unit                        | Colour                                                 |                                  |                                |                                                                                 |                           |                    |                    |                                                                                 |             |     |
|                                    | Fan                                                    | Airflow rate (H/L)               | m³/min<br>cfm                  | 18/15<br>635/530                                                                | 32/23<br>1,130/812        | 39/28<br>1,377/988 | 32/23<br>1,130/812 | 39/28<br>1,377/988                                                              |             |     |
|                                    | External static pressure <sup>3</sup><br>(Middle-High) | Pa                               | 50-200                         |                                                                                 |                           |                    |                    |                                                                                 |             |     |
|                                    | Sound level (H/L) <sup>4</sup>                         | dB(A)                            | 35/28                          | 43/32                                                                           | 44/34                     | 44/36              | 43/32              | 44/34                                                                           | 44/36       |     |
|                                    | Dimensions (H X W X D)                                 | mm                               | 300X 1,000X 700                |                                                                                 |                           |                    |                    |                                                                                 |             |     |
|                                    | Machine weight                                         | kg                               | 36                             |                                                                                 |                           |                    | 46                 |                                                                                 |             |     |
|                                    | Certified                                              | Cooling                          | °CWB                           | 14 to 25                                                                        |                           |                    |                    |                                                                                 |             |     |
|                                    | Operation range                                        | Heating                          | °CDB                           | 15 to 27                                                                        |                           |                    |                    |                                                                                 |             |     |
|                                    | Colour                                                 |                                  |                                | Ivory white                                                                     |                           |                    |                    |                                                                                 |             |     |
| Outdoor unit                       | Compressor                                             | Type                             | Hermetically sealed swing type | Hermetically sealed scroll type                                                 |                           |                    |                    |                                                                                 |             |     |
|                                    |                                                        | Motor output                     | kW                             | 1.7                                                                             | 1.9                       | 2.4                | 2.9                | 1.9                                                                             | 2.4         | 2.9 |
|                                    | Refrigerant charge (R-410A)                            | kg                               | 2.75<br>(Charged for 30 m)     | 3.7<br>(Charged for 30 m)                                                       | 4.3<br>(Charged for 30 m) |                    |                    |                                                                                 |             |     |
|                                    | Sound level                                            | Cooling/<br>Heating <sup>4</sup> | dB(A)                          | 48/50                                                                           | 49/51                     | 50/52              | 49/51              | 50/52                                                                           |             |     |
|                                    |                                                        | Night quiet mode                 | dB(A)                          | 44                                                                              | 45                        | 46                 | 45                 | 46                                                                              |             |     |
|                                    | Dimensions (H X W X D)                                 | mm                               | 770X 900X 320                  | 1,170X 900X 320                                                                 |                           |                    | 1,345X 900X 320    |                                                                                 |             |     |
|                                    | Machine weight                                         | kg                               | 68                             | 98                                                                              |                           |                    | 108                |                                                                                 |             |     |
|                                    | Certified                                              | Cooling                          | °CDB                           | -5 to 46                                                                        |                           |                    |                    |                                                                                 |             |     |
|                                    | Operation range                                        | Heating                          | °CWB                           | -15 to 15.5                                                                     |                           |                    |                    |                                                                                 |             |     |
|                                    | Piping connections                                     | Liquid (Flare)                   | mm                             | Ø9.5                                                                            |                           |                    |                    |                                                                                 |             |     |
|                                    |                                                        | Gas (Flare)                      | mm                             | Ø15.9                                                                           |                           |                    |                    |                                                                                 |             |     |
|                                    | Drain                                                  | Indoor unit                      | I.D.Ø25X O.D.Ø32               |                                                                                 |                           |                    |                    |                                                                                 |             |     |
|                                    |                                                        | Outdoor unit                     | Ø26.0 (Hole)                   |                                                                                 |                           |                    |                    |                                                                                 |             |     |
| Max. interunit piping length       |                                                        |                                  | m                              | 50 (Equivalent length 70)                                                       | 75 (Equivalent length 90) |                    |                    |                                                                                 |             |     |
| Max. installation level difference |                                                        |                                  | m                              | 30                                                                              |                           |                    |                    |                                                                                 |             |     |
| Heat insulation                    |                                                        |                                  |                                | Both liquid and gas piping                                                      |                           |                    |                    |                                                                                 |             |     |

Note :

1 Rated cooling capacities are based on the following conditions: Indoor temp., 27°CDB, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB. Equiv. refrigeration piping, 7.5 m (horizontal).

2 Rated heating capacities are based on the following conditions: Indoor temp., 20°CDB, outdoor temp., 7°CDB, 6°CWB. Equiv. refrigeration piping, 7.5 m (horizontal)

3 Initial setting is standard.

4 Anechoic chamber conversion value, measured according to JIS parameters and criteria. During operation these values are somewhat higher owing to ambient conditions.