

# 1 Features

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## 2 Specifications

| 2-1 NOMINAL CAPACITY AND NOMINAL INPUT       |                           |                           |    | RKS60F2V1B |            | RKS71FV1B  |      |
|----------------------------------------------|---------------------------|---------------------------|----|------------|------------|------------|------|
| For combination indoor units + outdoor units | Indoor Units              |                           |    | FTKS60FV1B |            | FTKS71FV1B |      |
| Cooling capacity                             | Minimum                   | kW                        |    | 1.7        |            | 2.3        |      |
|                                              | Standard                  | kW                        |    | 6.0        |            | 7.1        |      |
|                                              | Maximum                   | kW                        |    | 6.7        |            | 8.5        |      |
| Nominal input                                | Cooling                   | Minimum                   | kW | 0.44       |            | 0.57       |      |
|                                              |                           | Standard                  | kW | 1.99       |            | 2.35       |      |
|                                              |                           | Maximum                   | kW | 2.40       |            | 3.20       |      |
| For combination indoor units + outdoor units | EER                       | Nominal                   |    | 3.02       |            | 3.02       |      |
|                                              | Energy Labeling Directive | Cooling                   |    | B          |            | B          |      |
|                                              |                           | Annual energy consumption |    | kWh        | 995        |            | 1175 |
|                                              |                           | Indoor Units              |    |            | FDKS60CVMB |            |      |
| Cooling capacity                             | Minimum                   | kW                        |    | 1.7        |            |            |      |
|                                              | Standard                  | kW                        |    | 6.0        |            |            |      |
|                                              | Maximum                   | kW                        |    | 6.5        |            |            |      |
| Nominal input                                | Cooling                   | Minimum                   | kW | 0.44       |            |            |      |
|                                              |                           | Standard                  | kW | 2.13       |            |            |      |
|                                              |                           | Maximum                   | kW | 2.49       |            |            |      |
| For combination indoor units + outdoor units | EER                       | Nominal                   |    | 2.82       |            |            |      |
|                                              | Energy Labeling Directive | Cooling                   |    | C          |            |            |      |
|                                              |                           | Annual energy consumption |    | kWh        | 1065       |            |      |
|                                              |                           | Indoor Units              |    |            | FCQ60C7VEB |            |      |
| Cooling capacity                             | Minimum                   | kW                        |    | 0.9        |            |            |      |
|                                              | Standard                  | kW                        |    | 5.7        |            |            |      |
|                                              | Maximum                   | kW                        |    | 6.0        |            |            |      |
| Nominal input                                | Cooling                   | Minimum                   | kW |            |            |            |      |
|                                              |                           | Standard                  | kW | 1.64       |            |            |      |
|                                              |                           | Maximum                   | kW |            |            |            |      |
| For combination indoor units + outdoor units | EER                       | Nominal                   |    | 3.48       |            |            |      |
|                                              | Energy Labeling Directive | Cooling                   |    | A          |            |            |      |
|                                              |                           | Annual energy consumption |    | kWh        | 820        |            |      |
|                                              |                           | Indoor Units              |    |            | FFQ60B8V1B |            |      |
| Cooling capacity                             | Standard                  | kW                        |    | 5.8        |            |            |      |
| Nominal input                                | Cooling                   | Standard                  | kW | 2.07       |            |            |      |
| For combination indoor units + outdoor units | EER                       | Nominal                   |    | 2.80       |            |            |      |
|                                              | Energy Labeling Directive | Cooling                   |    | D          |            |            |      |
|                                              |                           | Annual energy consumption |    | kWh        | 1035       |            |      |
|                                              |                           | Indoor Units              |    |            | FBQ60B8V1  |            |      |
| Cooling capacity                             | Standard                  | kW                        |    | 5.7        |            |            |      |
| Nominal input                                | Cooling                   | Standard                  | kW | 2.19       |            |            |      |
| For combination indoor units + outdoor units | EER                       | Nominal                   |    | 2.60       |            |            |      |
|                                              | Energy Labeling Directive | Cooling                   |    | E          |            |            |      |
|                                              |                           | Annual energy consumption |    | kWh        | 1095       |            |      |
|                                              |                           | Indoor Units              |    |            | FHQ60BVV1B |            |      |

## 2 Specifications

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| 2-1 NOMINAL CAPACITY AND NOMINAL INPUT       |                           |          |    | RKS60F2V1B | RKS71FV1B |
|----------------------------------------------|---------------------------|----------|----|------------|-----------|
| Cooling capacity                             | Minimum                   | kW       |    | 1.7        |           |
|                                              | Standard                  | kW       |    | 5.7        |           |
|                                              | Maximum                   | kW       |    | 6.0        |           |
| Nominal input                                | Cooling                   | Minimum  | kW | 0.44       |           |
|                                              |                           | Standard | kW | 2.15       |           |
|                                              |                           | Maximum  | kW | 2.23       |           |
| For combination indoor units + outdoor units | EER                       | Nominal  |    | 2.65       |           |
|                                              | Energy Labeling Directive | Cooling  |    | E          |           |
|                                              | Annual energy consumption | kWh      |    | 1075       |           |

| 2-2 TECHNICAL SPECIFICATIONS |                                 |                |                               | RKS60F2V1B                           |          | RKS71FV1B     |  |
|------------------------------|---------------------------------|----------------|-------------------------------|--------------------------------------|----------|---------------|--|
| Casing                       | Colour                          |                |                               | Ivory White                          |          |               |  |
| Dimensions                   | Unit                            | Height         | mm                            | 735                                  |          | 770           |  |
|                              |                                 | Width          | mm                            | 825                                  |          | 900           |  |
|                              |                                 | Depth          | mm                            | 300                                  |          | 320           |  |
|                              | Packing                         | Height         | mm                            | 797                                  |          | 900           |  |
|                              |                                 | Width          | mm                            | 960                                  |          | 925           |  |
|                              |                                 | Depth          | mm                            | 390                                  |          | 390           |  |
| Weight                       | Unit                            |                | kg                            | 47                                   |          | 71            |  |
|                              | Packed Unit                     |                | kg                            | 52                                   |          | 78            |  |
| Heat Exchanger               | Dimensions                      | Length         | mm                            | 845                                  |          | 859           |  |
|                              |                                 | Nr of Rows     |                               | 2                                    |          | 2             |  |
|                              |                                 | Fin Pitch      | mm                            | 1.8                                  |          | 1.4           |  |
|                              |                                 | Nr of Stages   |                               | 32                                   |          | 34            |  |
|                              | Tube type                       |                | Hi-Xa(8)                      |                                      | Hi-Xa(7) |               |  |
|                              | Fin                             | Type           | Waffle fin                    |                                      |          |               |  |
|                              |                                 | Treatment      | Anti-corrosion treatment (PE) |                                      |          |               |  |
| Fan                          | Type                            |                |                               | Propeller                            |          |               |  |
|                              | Quantity                        |                |                               | 1                                    |          | 1             |  |
|                              | Air Flow Rate (nominal at 230V) | Cooling        | m³/min                        | 50.9                                 |          | 54.5          |  |
|                              | Motor                           | Quantity       |                               | 1                                    |          | 1             |  |
|                              |                                 | Model          |                               | KFD-380-50-8A                        |          | KFD-280-66-8A |  |
| Motor                        | Speed (nominal)                 | Cooling        | rpm                           | 810                                  |          | 860           |  |
| Fan                          | Motor                           | Output         | W                             | 53                                   |          | 66            |  |
| Compressor                   | Quantity                        |                |                               | 1                                    |          | 1             |  |
|                              | Motor                           | Model          |                               | 2YC36BXD#C                           |          | 2YC63BXD#D    |  |
|                              |                                 | Type           |                               | Hermetically sealed swing compressor |          |               |  |
|                              |                                 | Motor Output   | W                             | 1100                                 |          | 1920          |  |
| Operation Range              | Cooling                         | Min            | °CDB                          | -10                                  |          | -10           |  |
|                              |                                 | Max            | °CDB                          | 46                                   |          | 46            |  |
| Sound Level (nominal)        | Cooling                         | Sound Power    | dBA                           | 63                                   |          | 66            |  |
|                              |                                 | Sound Pressure | dBA                           | 49(H) - 46(SL)                       |          | 52            |  |
| Sound Level (Night quiet)    | Sound Pressure                  |                | dBA                           |                                      |          | 49            |  |
| Refrigerant                  | Type                            |                |                               | R-410A                               |          |               |  |
|                              | Charge                          |                | kg                            | 1.5                                  |          | 2.3           |  |
| Refrigerant Oil              | Type                            |                |                               | FVC50K                               |          |               |  |
|                              | Charged Volume                  |                | l                             | 0.65                                 |          | 0.75          |  |

## 2 Specifications

| 2-2 TECHNICAL SPECIFICATIONS |                                |               |                                                                                                                                                                           | RKS60F2V1B |   | RKS71FV1B |  |
|------------------------------|--------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---|-----------|--|
| Piping connections           | Liquid (OD)                    | Quantity      |                                                                                                                                                                           | 1          |   | 1         |  |
|                              |                                | Diameter (OD) | mm                                                                                                                                                                        | 6.35       |   | 6.35      |  |
|                              | Gas                            | Quantity      |                                                                                                                                                                           | 1          |   | 1         |  |
|                              |                                | Diameter (OD) | mm                                                                                                                                                                        | 12.7       |   | 15.9      |  |
|                              | Drain                          | Quantity      |                                                                                                                                                                           | 1          |   | 1         |  |
|                              |                                | Diameter (OD) | mm                                                                                                                                                                        | 18         |   | 18        |  |
|                              | Piping Length                  | Maximum       | m                                                                                                                                                                         | 30         |   | 30        |  |
|                              |                                | Chargeless    | m                                                                                                                                                                         | 10         |   | 10        |  |
|                              | Additional Refrigerant Charge  |               | kg/m                                                                                                                                                                      | 0.02/>10m  |   | 0.02/>10m |  |
|                              | Installation height difference | Maximum       | m                                                                                                                                                                         | 20         |   | 20        |  |
| Heat Insulation              |                                |               | Both liquid and gas pipes                                                                                                                                                 |            |   |           |  |
| Standard Accessories         | Item                           |               | Installation manual                                                                                                                                                       |            |   |           |  |
|                              | Quantity                       |               | 1                                                                                                                                                                         |            | 1 |           |  |
| Notes                        |                                |               | Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m. |            |   |           |  |

| 2-3 ELECTRICAL SPECIFICATIONS |                                    |             |    | RKS60F2V1B               |  | RKS71FV1B       |  |
|-------------------------------|------------------------------------|-------------|----|--------------------------|--|-----------------|--|
| Power Supply                  | Name                               |             |    | V1                       |  |                 |  |
|                               | Phase                              |             |    | 1                        |  | 1               |  |
|                               | Frequency                          |             | Hz | 50                       |  | 50              |  |
|                               | Voltage                            |             | V  | 220-240                  |  | 220-240/220-230 |  |
| Current                       | Nominal running current (RLA)      | Cooling (A) | A  | 8.62                     |  | 10.20           |  |
|                               | Starting current (cooling/heating) |             | A  | 9.2                      |  | 10.8            |  |
|                               | Maximum Running Current            |             | A  | 9.01                     |  | 10.59           |  |
| Wiring connections            | For Power Supply                   | Quantity    |    | 3                        |  | 3               |  |
|                               | For connection with indoor         | Quantity    |    | 4                        |  | 4               |  |
|                               |                                    | Remark      |    | (including earth wiring) |  |                 |  |

### 3 Electrical data

| Representative unit combination |              | Power supply |                                  |       |      | Comp. |      | OFM |      | IFM |      |
|---------------------------------|--------------|--------------|----------------------------------|-------|------|-------|------|-----|------|-----|------|
| Indoor unit                     | Outdoor unit | Hz-volts     | Voltage range                    | MCA   | MFA  | RHz   | RLA  | W   | FLA  | W   | FLA  |
| FTKS50FV1B                      | RKS50F2V1B   | 50 - 220     | Max. 50Hz 264V<br>Min. 50Hz 198V | 19.75 | 20.0 | 67    | 6.7  | 53  | 0.27 | 43  | 0.16 |
|                                 |              | 50 - 230     |                                  |       |      |       | 6.4  |     |      |     |      |
|                                 |              | 50 - 240     |                                  |       |      |       | 6.1  |     |      |     |      |
| FTKS60FV1B                      | RKS60F2V1B   | 50 - 220     | Max. 50Hz 264V<br>Min. 50Hz 198V | 19.75 | 20.0 | 84    | 8.7  | 53  | 0.32 | 43  | 0.16 |
|                                 |              | 50 - 230     |                                  |       |      |       | 8.3  |     |      |     |      |
|                                 |              | 50 - 240     |                                  |       |      |       | 7.9  |     |      |     |      |
| FTKS71FV1B                      | RKS71FV1B    | 50 - 220     | Max. 50Hz 264V<br>Min. 50Hz 198V | 19.75 | 20.0 | 57    | 10.3 | 66  | 0.40 | 43  | 0.19 |
|                                 |              | 50 - 230     |                                  |       |      |       | 9.9  |     |      |     |      |
|                                 |              | 50 - 240     |                                  |       |      |       | 9.4  |     |      |     |      |

3D056032A

#### SYMBOLS

MCA : Min. Circuit Amps (A)  
 MFA : Max. Fuse Amps (A)  
 RHz : Rated operating frequency (Hz)  
 RLA : Rated Load Amps (A)  
 OFM : Outdoor Fan Motor  
 IFM : Indoor Fan Motor  
 FLA : Full Load Amps (A)  
 W : Rated motor output (W)

#### NOTES

1. RLA is based on the following conditions:  
Indoor temp.: 27°CDB/19.0°CWB  
Outdoor temp. : 35°CDB
2. Maximum allowable voltage unbalance between phases is 2%
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use circuit breaker.
5. For more details concerning conditional connections, see <http://extranet.daikineurope.com>, select "E-Data Books". Finally, click on the document title of your choice.

## 4 Capacity tables

### 4 - 1 Cooling capacity tables

| FTKS60FV1B+RKS60F2V1B |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | AFR  |  | 16.2 |
|-----------------------|------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|------|
| Cooling               |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | BF   |  | 0.29 |
| 220-240V [50Hz]       |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |      |
| Indoor                |      | Outdoor temperature (°CDB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |      |
| EWB                   | EDB  | 20                         |      |      | 25   |      |      | 30   |      |      | 32   |      |      | 35   |      |      | 40   |      |      |  |      |
| (°C)                  | (°C) | TC                         | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |  |      |
| 14.0                  | 20   | 5.60                       | 3.94 | 1.49 | 5.60 | 3.94 | 1.66 | 5.59 | 3.94 | 1.82 | 5.48 | 3.88 | 1.88 | 5.31 | 3.79 | 1.97 | 5.03 | 3.64 | 2.12 |  |      |
| 16.0                  | 22   | 6.42                       | 4.17 | 1.54 | 6.14 | 4.02 | 1.68 | 5.86 | 3.88 | 1.83 | 5.75 | 3.82 | 1.89 | 5.59 | 3.74 | 1.98 | 5.31 | 3.60 | 2.12 |  |      |
| 18.0                  | 25   | 6.70                       | 4.31 | 1.54 | 6.42 | 4.17 | 1.69 | 6.14 | 4.04 | 1.84 | 6.03 | 3.99 | 1.90 | 5.86 | 3.91 | 1.99 | 5.58 | 3.78 | 2.13 |  |      |
| 19.0                  | 27   | 6.84                       | 4.49 | 1.55 | 6.56 | 4.36 | 1.70 | 6.28 | 4.23 | 1.84 | 6.17 | 4.18 | 1.90 | 6.00 | 4.10 | 1.99 | 5.72 | 3.98 | 2.14 |  |      |
| 22.0                  | 30   | 7.25                       | 4.31 | 1.56 | 6.97 | 4.19 | 1.71 | 6.69 | 4.08 | 1.86 | 6.58 | 4.04 | 1.91 | 6.41 | 3.97 | 2.00 | 6.14 | 3.86 | 2.15 |  |      |
| 24.0                  | 32   | 7.53                       | 4.18 | 1.57 | 7.25 | 4.07 | 1.72 | 6.97 | 3.97 | 1.86 | 6.86 | 3.93 | 1.92 | 6.69 | 3.87 | 2.01 | 6.41 | 3.77 | 2.16 |  |      |

3D051927A

| SYMBOLS |                                     | NOTES |                                                                                                                                                           |
|---------|-------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| AFR:    | Air flow rate (m <sup>3</sup> /min) | 1     | Ratings shown are net capacities which include a deduction for indoor fan motor heat                                                                      |
| BF:     | Bypass factor                       | 2     |  shows nominal (rated) capacities and power input.                       |
| EWB:    | Entering wet bulb temp. (°C)        | 3     | TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.) |
| EDB:    | Entering dry bulb temp. (°C)        | 4     | About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.                                            |
| TC:     | Total capacity (kW)                 | 5     | Capacities are based on following conditions:<br>Corresponding refrigerant piping length: 7.5 m<br>Level difference: 0 m                                  |
| SHC:    | Sensible heating capacity (kW)      | 6     | Air flow rate (AFR) and Bypass factor (BF) are tabulated above.                                                                                           |
| PI:     | Power input (kW)                    |       |                                                                                                                                                           |

## 4 Capacity tables

### 4 - 1 Cooling capacity tables

FBQ60B8V1+RKS60F2V1B

Cooling

220-240V [50Hz]

| Outdoor | Indoor |      | Outdoor temperature (°CDB) |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |
|---------|--------|------|----------------------------|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
|         | EWB    | EDB  | 20                         |     |      | 25  |     |      | 30  |     |      | 32  |     |      | 35  |     |      | 40  |     |      |
|         | (°C)   | (°C) | TC                         | SHC | PI   | TC  | SHC | PI   | TC  | SHC | PI   | TC  | SHC | PI   | TC  | SHC | PI   | TC  | SHC | PI   |
| 60      | 14,0   | 20,0 | 5,8                        | 4,6 | 1,84 | 5,6 | 4,6 | 1,94 | 5,5 | 4,5 | 2,03 | 5,4 | 4,5 | 2,07 | 5,3 | 4,4 | 2,13 | 5,2 | 4,3 | 2,22 |
|         | 16,0   | 22,0 | 5,9                        | 4,7 | 1,87 | 5,8 | 4,6 | 1,96 | 5,6 | 4,5 | 2,06 | 5,6 | 4,5 | 2,10 | 5,5 | 4,5 | 2,15 | 5,3 | 4,4 | 2,25 |
|         | 18,0   | 25,0 | 6,1                        | 4,7 | 1,89 | 5,9 | 4,6 | 1,99 | 5,8 | 4,6 | 2,08 | 5,7 | 4,5 | 2,12 | 5,6 | 4,5 | 2,18 | 5,5 | 4,4 | 2,27 |
|         | 19,0   | 27,0 | 6,2                        | 4,7 | 1,91 | 6,0 | 4,6 | 2,00 | 5,9 | 4,8 | 2,10 | 5,8 | 4,5 | 2,13 | 5,7 | 4,5 | 2,19 | 5,6 | 4,4 | 2,29 |
|         | 22,0   | 30,0 | 6,4                        | 4,8 | 1,95 | 6,2 | 4,7 | 2,04 | 6,1 | 4,6 | 2,14 | 6,0 | 4,6 | 2,17 | 5,9 | 4,6 | 2,23 | 5,8 | 4,5 | 2,33 |
|         | 24,0   | 32,0 | 6,5                        | 4,8 | 1,97 | 6,4 | 4,7 | 2,07 | 6,2 | 4,7 | 2,18 | 6,2 | 4,6 | 2,20 | 6,1 | 4,6 | 2,26 | 5,9 | 4,5 | 2,35 |

3TW25112-1B

#### SYMBOLS

|      |                           |                       |
|------|---------------------------|-----------------------|
| AFR: | Air flow rate             | (m <sup>3</sup> /min) |
| BF:  | Bypass factor             |                       |
| EWB: | Entering wet bulb temp.   | (°CWB)                |
| EDB: | Entering dry bulb temp.   | (°CDB)                |
| DB*: | Dry bulb temp.            | (°CDB)                |
| TC:  | Total capacity            | (kW)                  |
| SHC: | Sensible heating capacity | (kW)                  |
| PI:  | Power input               | (kW)                  |

#### NOTES

- Ratings shown are net capacities which include a deduction for indoor fan motor heat
-  shows nominal (rated) capacities and power input.
- SHC is based on each EWB and EDB  
SHC\* = SHC correction for other dry bulb  
= 0.29 x 60 x AFR [m<sup>3</sup>/min.] x (1-BF) x (DB\*-EDB)/860  
Add SHC\* to SHC if SHC > TC, then TC equal SHC
- Direct interpolation is permissible.  
Do not extrapolate.
- Capacities are based on following conditions:  
Corresponding refrigerant piping length: 7.5 m  
Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

| Model |     | FBQ  |
|-------|-----|------|
| 35    | AFR | 11.5 |
|       | BF  | 0.15 |
| 50    | AFR | 14   |
|       | BF  | 0.15 |
| 60    | AFR | 19   |
|       | BF  | 0.11 |

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## 4 Capacity tables

### 4 - 1 Cooling capacity tables

|                       |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |          |  |
|-----------------------|------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------|--|
| FCQ60C7VEB+RKS60F2V1B |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | AFR  |      | 13.5 |  |          |  |
| Cooling               |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | BF   |      | 0.21 |  |          |  |
| 220-240V [50Hz]       |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |          |  |
| Indoor                |      | Outdoor temperature (°CDB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |          |  |
| EWB                   | EDB  | 20                         |      |      | 25   |      |      | 30   |      |      | 32   |      |      | 35   |      |      | 40   |      |      |      |  |          |  |
| (°C)                  | (°C) | TC                         | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |      |  |          |  |
| 14.0                  | 20   | 5.84                       | 4.01 | 1.26 | 5.57 | 3.86 | 1.38 | 5.31 | 3.72 | 1.50 | 5.20 | 3.66 | 1.55 | 5.04 | 3.58 | 1.62 | 4.78 | 3.44 | 1.74 |      |  |          |  |
| 16.0                  | 22   | 6.10                       | 3.94 | 1.27 | 5.84 | 3.80 | 1.39 | 5.57 | 3.67 | 1.51 | 5.47 | 3.61 | 1.56 | 5.31 | 3.53 | 1.63 | 5.04 | 3.40 | 1.75 |      |  |          |  |
| 18.0                  | 25   | 6.36                       | 4.07 | 1.27 | 6.10 | 3.94 | 1.39 | 5.83 | 3.81 | 1.52 | 5.73 | 3.76 | 1.56 | 5.57 | 3.69 | 1.64 | 5.30 | 3.56 | 1.76 |      |  |          |  |
| 19.0                  | 27   | 6.50                       | 4.24 | 1.28 | 6.23 | 4.11 | 1.40 | 5.97 | 3.99 | 1.52 | 5.86 | 3.94 | 1.57 | 5.70 | 3.87 | 1.64 | 5.43 | 3.75 | 1.76 |      |  |          |  |
| 22.0                  | 30   | 6.89                       | 4.07 | 1.29 | 6.62 | 3.95 | 1.41 | 6.36 | 3.85 | 1.53 | 6.25 | 3.80 | 1.58 | 6.09 | 3.74 | 1.65 | 5.83 | 3.63 | 1.77 |      |  |          |  |
| 24.0                  | 32   | 7.15                       | 3.94 | 1.29 | 6.89 | 3.84 | 1.42 | 6.62 | 3.74 | 1.54 | 6.52 | 3.70 | 1.59 | 6.36 | 3.64 | 1.66 | 6.09 | 3.54 | 1.78 |      |  |          |  |
|                       |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  | 3D057251 |  |

SYMBOLS

AFR: Air flow rate (m³/min)

BF: Bypass factor

EWB: Entering wet bulb temp. (°C)

EDB: Entering dry bulb temp. (°C)

TC: Total capacity (kW)

SHC: Sensible heating capacity (kW)

PI: Power input (kW)

NOTES

1. Capacities are based on the following conditions:  
(1) Corresponding refrigerant piping length: 5 m  
(2) Level difference: 0 m

2.  shows nominal (rated) capacities and power input.

|                      |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |          |  |
|----------------------|------|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|----------|--|
| FTKS71FV1B+RKS71FV1B |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | AFR  |      | 17.4 |  |          |  |
| Cooling              |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | BF   |      | 0.30 |  |          |  |
| 220-240V [50Hz]      |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |          |  |
| Indoor               |      | Outdoor temperature (°CDB) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |          |  |
| EWB                  | EDB  | 20                         |      |      | 25   |      |      | 30   |      |      | 32   |      |      | 35   |      |      | 40   |      |      |      |  |          |  |
| (°C)                 | (°C) | TC                         | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   | TC   | SHC  | PI   |      |  |          |  |
| 14.0                 | 20   | 5.93                       | 4.18 | 1.64 | 5.93 | 4.18 | 1.86 | 5.93 | 4.18 | 2.07 | 5.93 | 4.18 | 2.16 | 5.93 | 4.18 | 2.29 | 5.93 | 4.18 | 2.50 |      |  |          |  |
| 16.0                 | 22   | 7.28                       | 4.67 | 1.78 | 7.27 | 4.66 | 1.99 | 6.94 | 4.48 | 2.16 | 6.81 | 4.41 | 2.23 | 6.61 | 4.31 | 2.33 | 6.28 | 4.14 | 2.51 |      |  |          |  |
| 18.0                 | 25   | 7.93                       | 4.98 | 1.82 | 7.60 | 4.81 | 2.00 | 7.27 | 4.65 | 2.17 | 7.13 | 4.58 | 2.24 | 6.94 | 4.48 | 2.34 | 6.61 | 4.33 | 2.52 |      |  |          |  |
| 19.0                 | 27   | 8.09                       | 5.16 | 1.83 | 7.76 | 5.00 | 2.00 | 7.43 | 4.84 | 2.18 | 7.30 | 4.78 | 2.25 | 7.10 | 4.69 | 2.35 | 6.77 | 4.53 | 2.52 |      |  |          |  |
| 22.0                 | 30   | 8.58                       | 4.95 | 1.84 | 8.25 | 4.81 | 2.02 | 7.92 | 4.67 | 2.19 | 7.79 | 4.61 | 2.26 | 7.59 | 4.53 | 2.37 | 7.26 | 4.39 | 2.54 |      |  |          |  |
| 24.0                 | 32   | 8.91                       | 4.79 | 1.85 | 8.58 | 4.66 | 2.03 | 8.25 | 4.53 | 2.20 | 8.12 | 4.48 | 2.27 | 7.92 | 4.40 | 2.38 | 7.59 | 4.28 | 2.55 |      |  |          |  |
|                      |      |                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  | 3D056031 |  |

SYMBOLS

AFR: Air flow rate (m³/min)

BF: Bypass factor

EWB: Entering wet bulb temp. (°C)

EDB: Entering dry bulb temp. (°C)

TC: Total capacity (kW)

SHC: Sensible heating capacity (kW)

PI: Power input (kW)

NOTES

1. Capacities are based on the following conditions:  
(1) Corresponding refrigerant piping length: 7.5 m  
(2) Level difference: 0 m

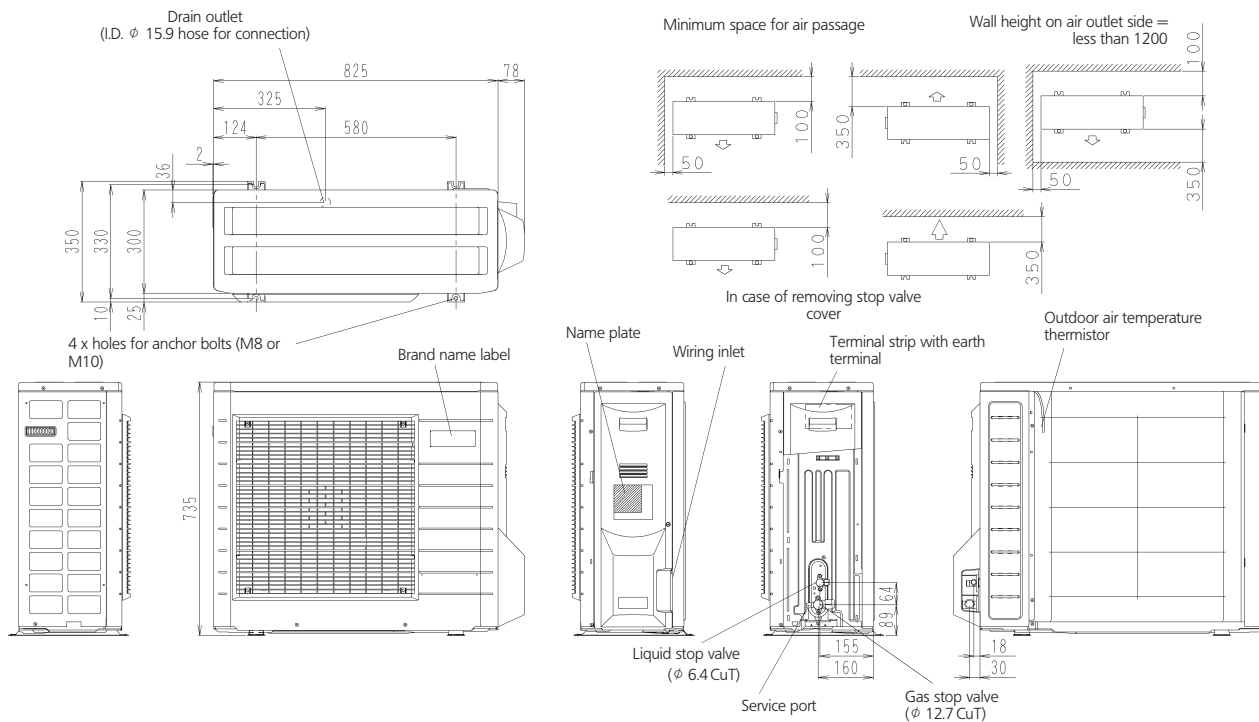
2.  shows nominal (rated) capacities and power input.

## 5 Dimensional drawing & centre of gravity

### 5 - 1 Dimensional drawing

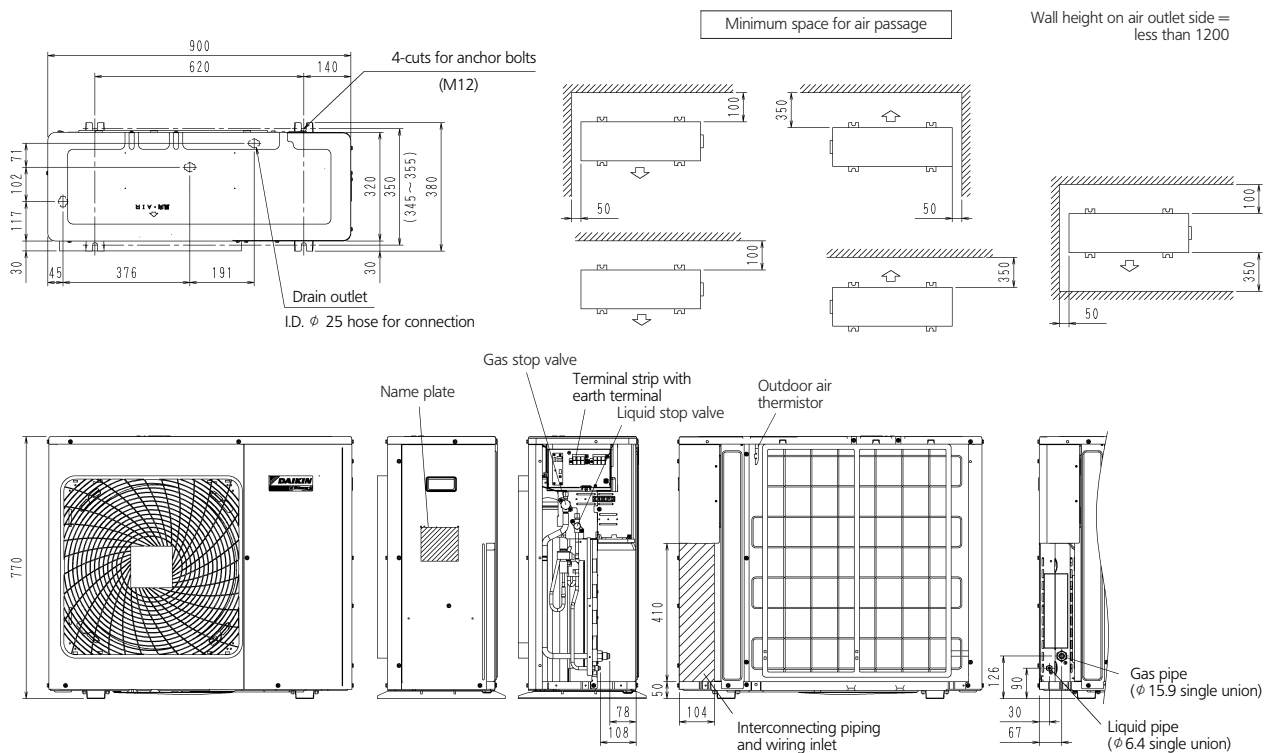
unit (mm)

#### RKS50-60F



#### RKS71FV1B

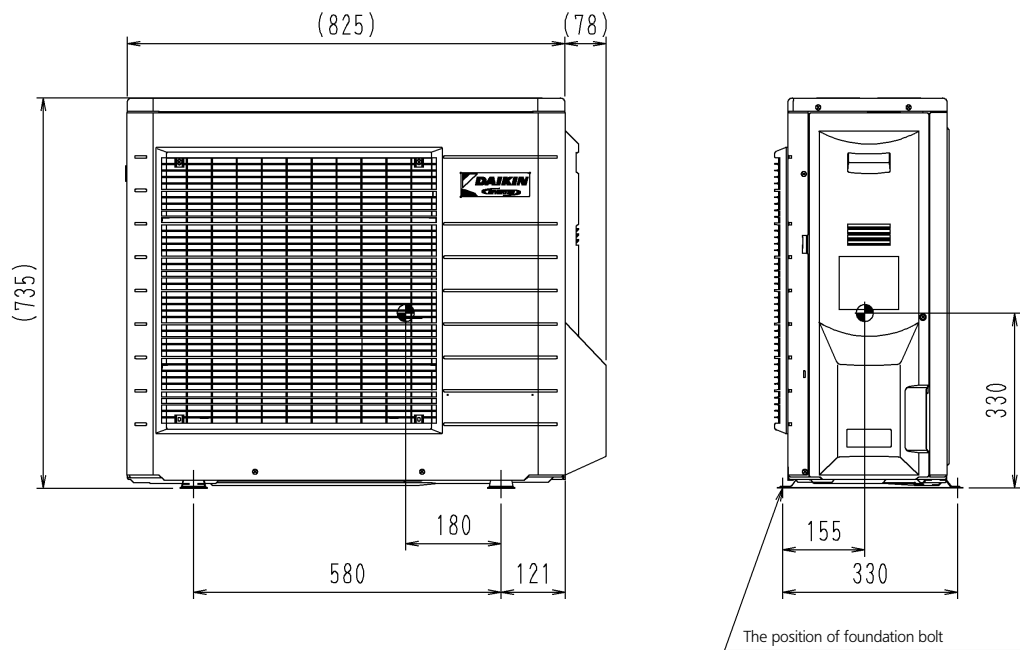
unit (mm)



## 5 Dimensional drawing & centre of gravity

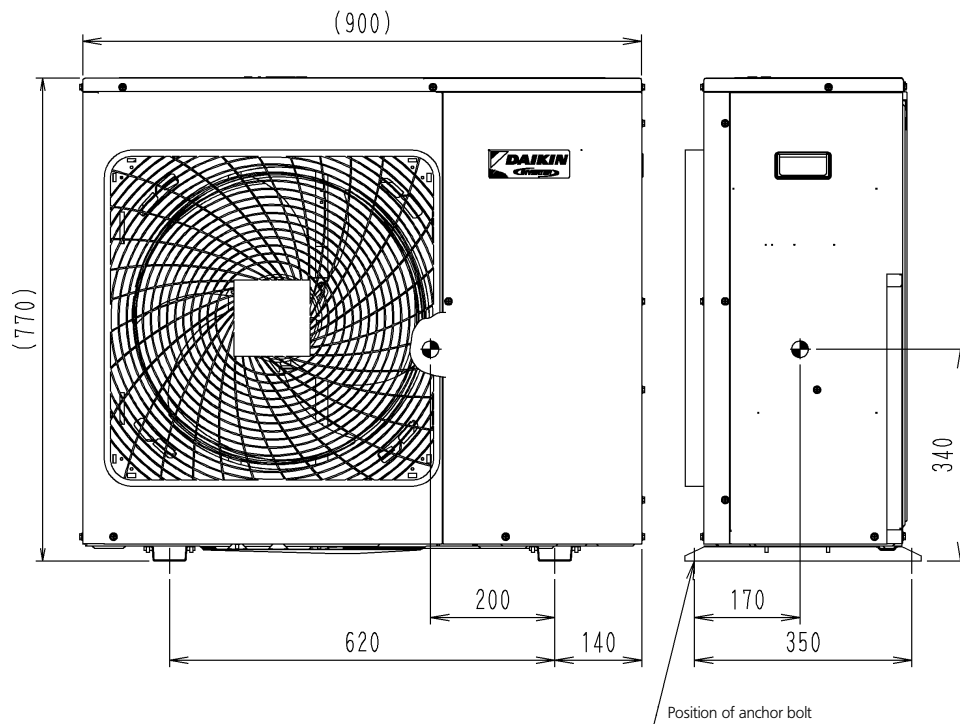
### 5 - 2 Centre of gravity

RKS50-60F2V1B



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RKS71FV1B



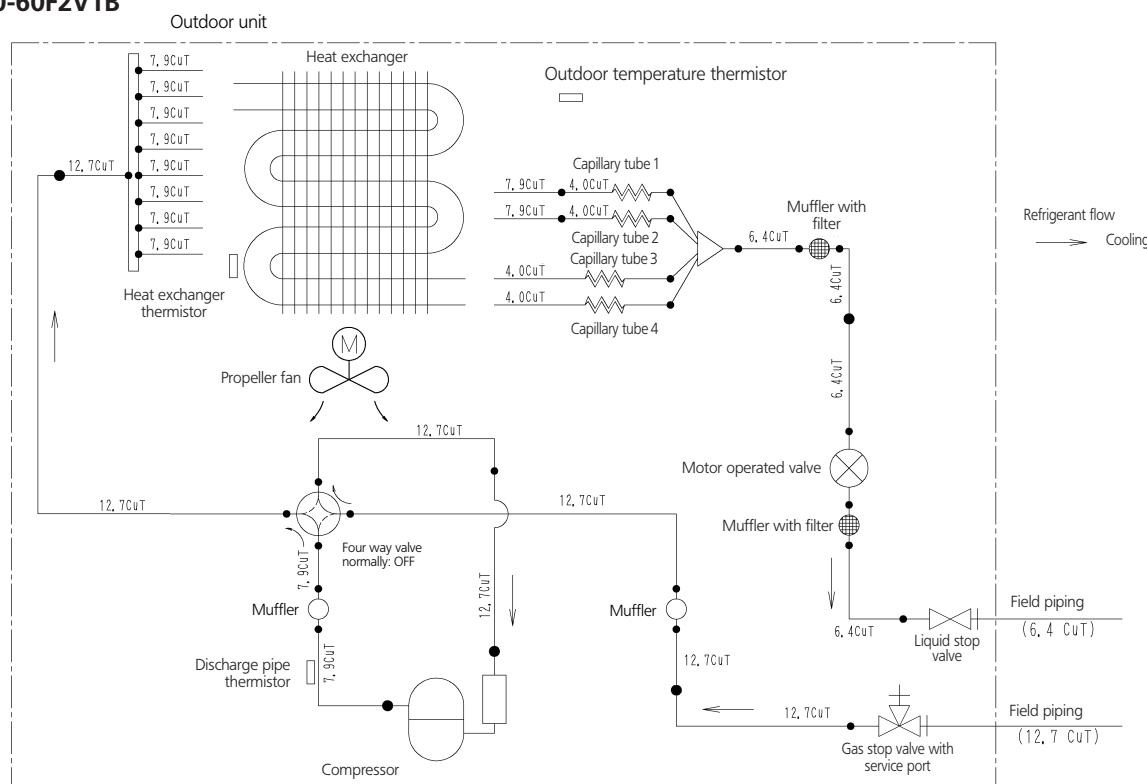
4D053630B

## 6 Piping diagram

44

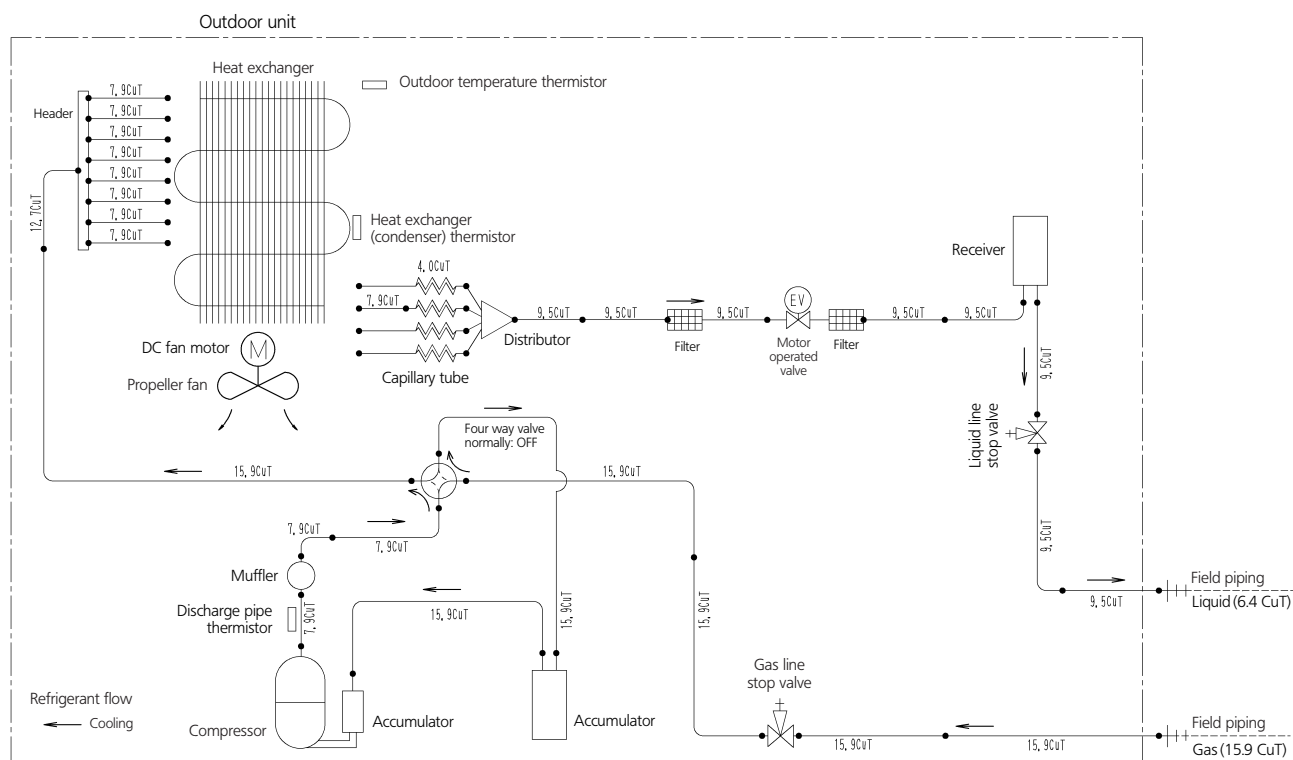
6

### RKS50-60F2V1B



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### RKS71FV1B

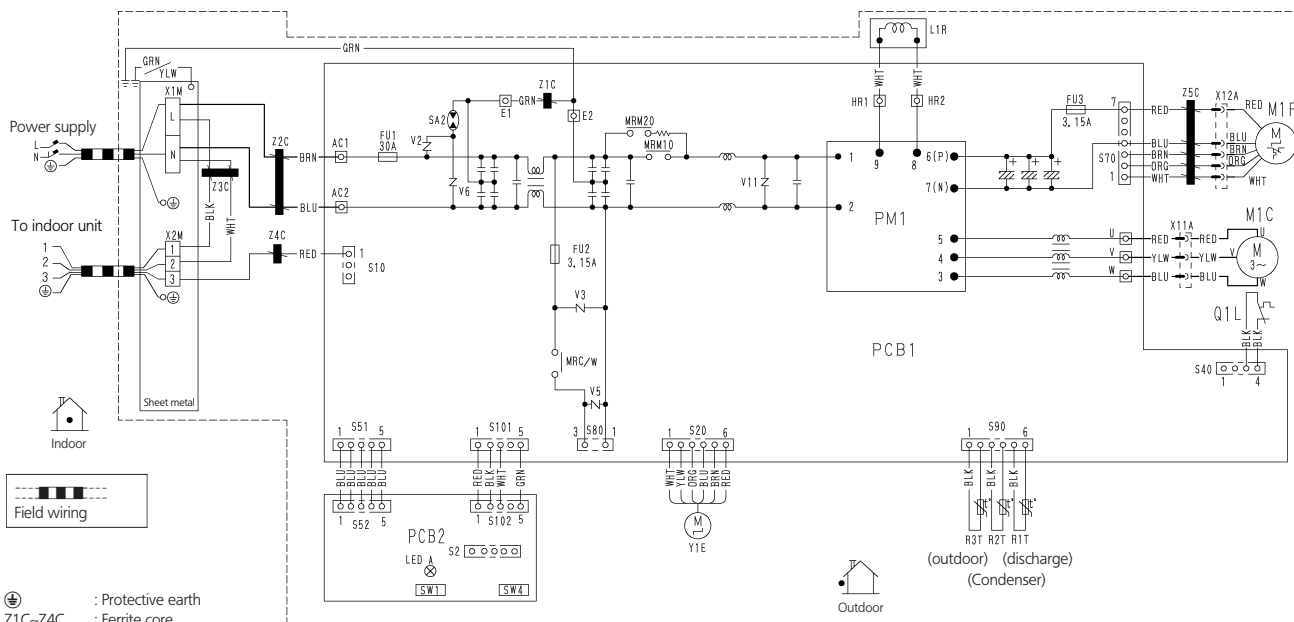


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# 7 Wiring diagram

## 7 - 1 Wiring diagram

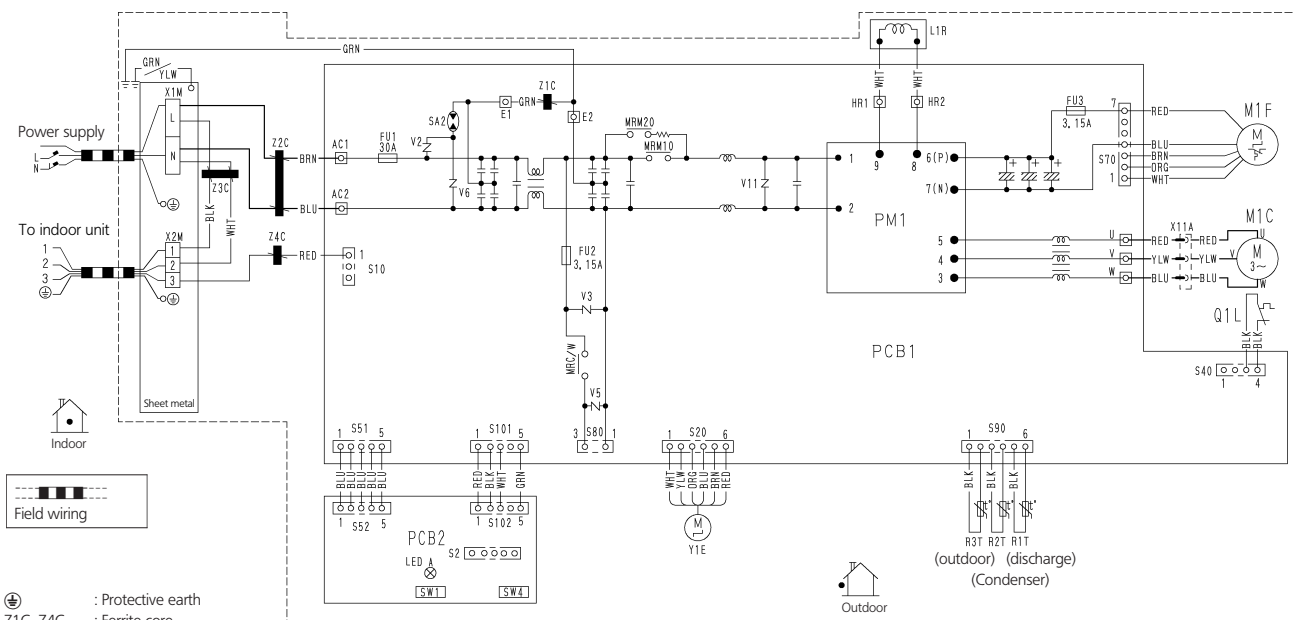
### RKS50F2V1B



- |                                       |                                            |                                          |
|---------------------------------------|--------------------------------------------|------------------------------------------|
| ⊕ : Protective earth                  | R1T~R3T : Thermistor                       | M1C : Compressor motors                  |
| Z1C~Z4C : Ferrite core                | S2~S102 : Connector                        | M1F : Fan motor                          |
| X1M,X2M : Terminal strip              | LEDA : Pilot lamp                          | L1R : Reactor                            |
| Y1E : Electronic expansion valve coil | L : Live                                   | Q1L : Overload protector                 |
| V2,V3,V5,V6,V11 : Varistor            | N : Neutral                                | PM1 : Power module                       |
| SA2 : Surge arrester                  | S1W : Forced operation on/off switch (SW1) | PCB1, 2 : Printed circuit board          |
| F1U,F2U,FU3 : Fuse                    | S4W : Local setting SW (SW4)               | Sheet metal : Terminal strip fixed plate |
| AC1,AC2 : Connector                   |                                            |                                          |
| U,V,W,X11A : Connector                |                                            |                                          |
| E1,E2 : Connector                     |                                            |                                          |
| HR1,HR2 : Connector                   |                                            |                                          |
| MRM10, MRM20 : Magnetic relay         |                                            |                                          |
| MRC/W : Magnetic relay                |                                            |                                          |

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### RKS60F2V1B



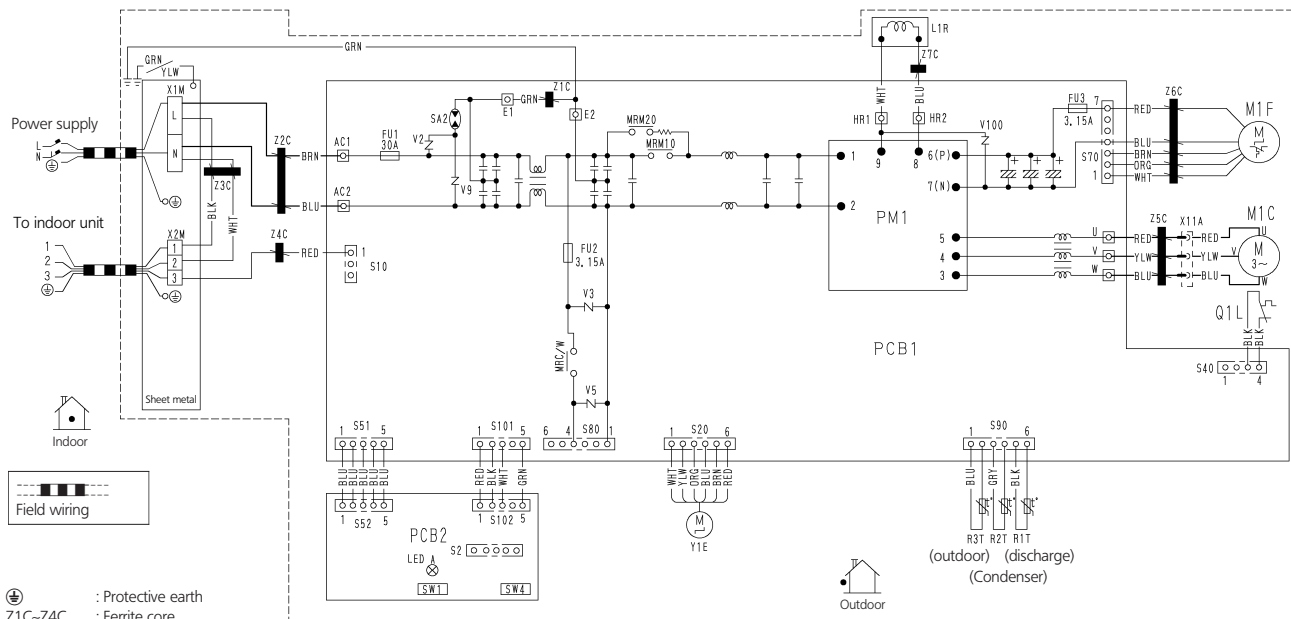
- |                                       |                                            |                                          |
|---------------------------------------|--------------------------------------------|------------------------------------------|
| ⊕ : Protective earth                  | R1T~R3T : Thermistor                       | M1C : Compressor motors                  |
| Z1C~Z4C : Ferrite core                | S2~S102 : Connector                        | M1F : Fan motor                          |
| X1M,X2M : Terminal strip              | LEDA : Pilot lamp                          | L1R : Reactor                            |
| Y1E : Electronic expansion valve coil | L : Live                                   | Q1L : Overload protector                 |
| V2,V3,V5,V6,V11 : Varistor            | N : Neutral                                | PM1 : Power module                       |
| SA2 : Surge arrester                  | S1W : Forced operation on/off switch (SW1) | PCB1, 2 : Printed circuit board          |
| F1U,F2U,FU3 : Fuse                    | S4W : Local setting SW (SW4)               | Sheet metal : Terminal strip fixed plate |
| AC1,AC2 : Connector                   |                                            |                                          |
| U,V,W,X11A : Connector                |                                            |                                          |
| E1,E2 : Connector                     |                                            |                                          |
| HR1,HR2 : Connector                   |                                            |                                          |
| MRM10, MRM20 : Magnetic relay         |                                            |                                          |
| MRC/W : Magnetic relay                |                                            |                                          |

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## 7 Wiring diagram

### 7 - 1 Wiring diagram

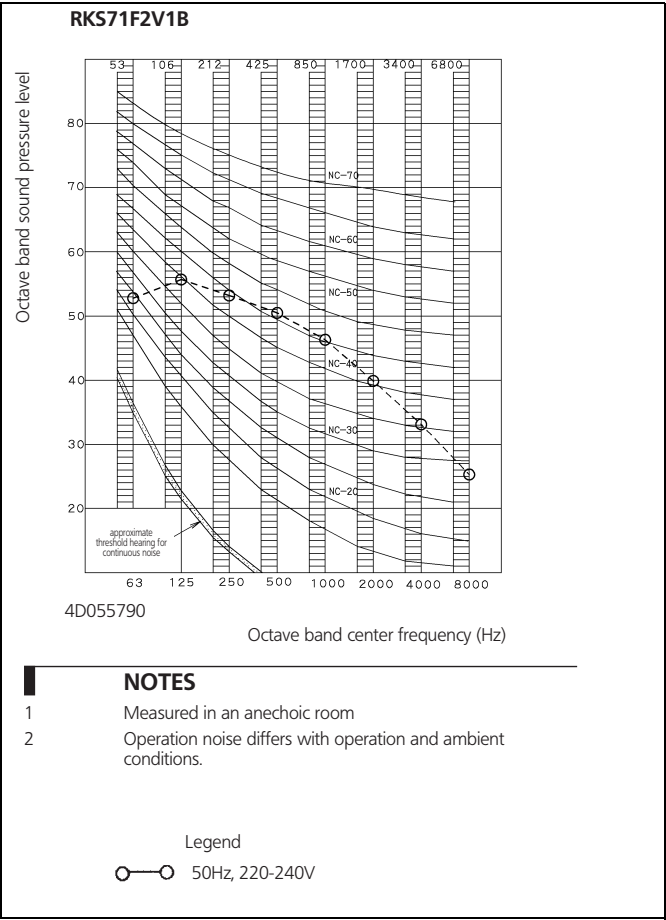
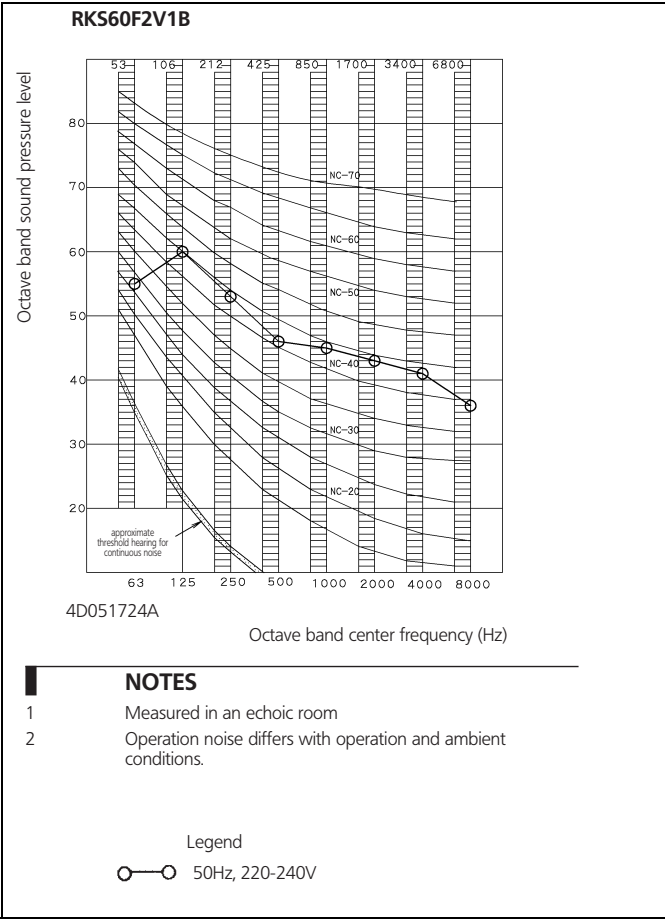
#### RKS71FV1B



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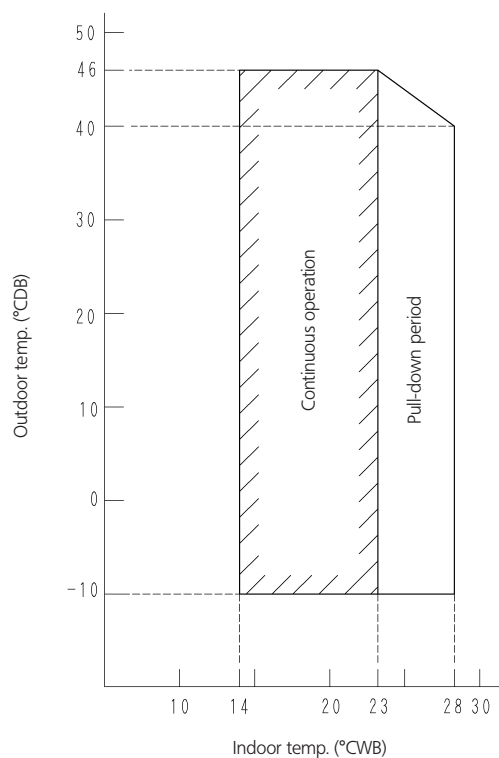
8 Sound data

8 - 1 Sound pressure spectrum



## 9 Operation range

RKS25-35F2V1B  
RKS50-71F2V1B



### Notes:

The graph is based on the following conditions:

1. Equivalent piping length 7.5 m
2. Level difference 0 m
3. Air flow rate high

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