



# technical data



**RS-B**

**Pair Application**



air conditioning systems

# Split Sky Air

# Split - Sky Air



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



Daikin Europe N.V. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

Specifications are subject to change without prior notice.

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# TABLE OF CONTENTS

## RS-B

|    |                            |    |
|----|----------------------------|----|
| 1  | Features .....             | 2  |
| 2  | Specifications .....       | 3  |
|    | Technical specifications   |    |
|    | Electrical specifications  |    |
|    | Electrical data            |    |
| 3  | Capacity tables .....      | 7  |
| 4  | Dimensional drawings ..... | 11 |
| 5  | Operation range .....      | 12 |
| 6  | Piping diagrams .....      | 13 |
| 7  | Wiring diagrams .....      | 15 |
| 8  | Sound level .....          | 16 |
|    | Sound level data           |    |
|    | Sound pressure spectrum    |    |
| 9  | Accessories .....          | 18 |
|    | Standard accessories       |    |
|    | Optional accessories       |    |
| 10 | Installation .....         | 19 |

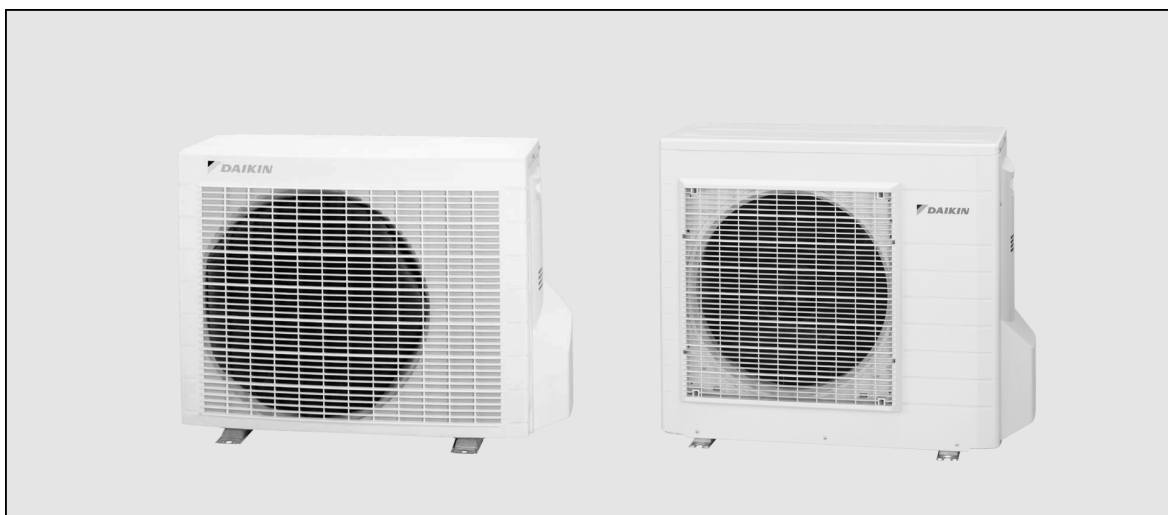


# 1 Features



## 1 Outdoor units for pair application

- Daikin outdoor units can be mounted easily on a roof or terrace or simply placed against an outside wall.



## 2 Specifications


**2**

| TECHNICAL SPECIFICATIONS |                                                       |               |                                |                                |          |              |              |              |
|--------------------------|-------------------------------------------------------|---------------|--------------------------------|--------------------------------|----------|--------------|--------------|--------------|
| OUTDOOR UNITS            |                                                       |               |                                | RS20BVMB                       | RS25BVMB | RS35BVMB     | RS50BVMB     | RS60BVMB     |
| DIMENSIONS               | Unit                                                  | H             | mm                             | 560                            |          |              | 735          |              |
|                          |                                                       | W             | mm                             | 695                            |          |              | 825          |              |
|                          |                                                       | D             | mm                             | 265                            |          |              | 300          |              |
| WEIGHT                   |                                                       |               | kg                             | 34                             |          | 37           | 49           | 53           |
| COLOUR                   | Unit                                                  |               |                                | Ivory white                    |          |              |              |              |
| SOUND LEVEL              | Sound pressure (1)                                    | (cooling) H/L | dBA                            | 47/*                           |          |              |              | 49/*         |
|                          | Sound power (2)                                       | (cooling) H   | dBA                            | 60                             |          |              | 63           | 64           |
| FAN                      | Air flow rate                                         | (cooling) H/L | m <sup>3</sup> /min            | 29/*                           | 29/*     | 27.5/*       | 47.7/44.1    | 47.6/44.1    |
|                          | Speed                                                 | (cooling) H/L | rpm                            | 720/*                          | 720/*    | 710/*        | 700/650      | 730/680      |
|                          | Model                                                 |               | Propeller                      |                                |          |              |              |              |
|                          | Motor output                                          |               | W                              | 25                             |          |              | 53           |              |
| HEAT EXCHANGER           | Type                                                  |               | WL fin, $\phi$ 8 Hi-XA tube    |                                |          |              |              |              |
|                          | Rows x stages x fin pitch                             |               | mm                             | 1 x 24 x 1.5                   |          | 2 x 24 x 1.5 | 1 x 32 x 1.6 | 2 x 32 x 1.8 |
| REFRIGERANT CIRCUIT      | Refrigerant type                                      |               |                                | R-410A                         |          |              |              |              |
|                          | Refrigerant charge                                    |               | kg                             | 0.79                           |          | 0.96         | 1.20         | 1.70         |
|                          | Maximum allowable distance between indoor and outdoor |               | m                              | 15                             |          | 30           |              |              |
|                          | Maximum allowable level difference                    |               | m                              | 15                             |          |              | 20           |              |
|                          | Refrigerant control                                   |               |                                | Motor operated expansion valve |          |              |              |              |
| COMPRESSOR               | Type                                                  |               | Hermetically sealed swing type |                                |          |              |              |              |
|                          | Model                                                 |               | 1YC23KXA#A                     |                                |          | 2YC32HXD     |              |              |
|                          | Motor output                                          |               | W                              | 600                            |          |              | 1,500        |              |
|                          | Oil type                                              |               | FVC50K                         |                                |          |              |              |              |
|                          | Oil charge volume                                     |               | ℓ                              | 0.43                           | 0.43     | 0.43         | 0.65         | 0.65         |
| PIPING CONNECTIONS       |                                                       | liquid        | mm                             | $\phi$ 6.4                     |          |              |              |              |
|                          |                                                       | gas           | mm                             | $\phi$ 9.5                     |          |              | $\phi$ 12.7  |              |
|                          |                                                       | drain         | mm                             | $\phi$ 18.0                    |          |              |              |              |
| INSULATION MATERIAL      | Heat insulation                                       |               |                                | Both liquid and gas pipes      |          |              |              |              |

\* This information was not available at the time of publication.

## 2 Specifications



### 2

| ELECTRICAL SPECIFICATIONS           |                         |         |    |                                 |          |          |          |          |
|-------------------------------------|-------------------------|---------|----|---------------------------------|----------|----------|----------|----------|
| OUTDOOR UNITS                       |                         |         |    | RS20BVMB                        | RS25BVMB | RS35BVMB | RS50BVMB | RS60BVMB |
| CURRENT                             | Nominal running current | cooling | A  | 3.22                            | 4.32     | 5.82     | 7.12     | 9.12     |
|                                     | Max. running current    | cooling | A  | Please refer to electrical data |          |          |          |          |
|                                     | Starting current        | cooling | A  | 3.4                             | 4.5      | 6.0      | 7.3      | 9.3      |
| POWER SUPPLY                        |                         |         |    | VM                              | VM       | VM       | VM       | VM       |
| NOMINAL DISTRIBUTION SYSTEM VOLTAGE | Phase                   |         |    | 1~                              | 1~       | 1~       | 1~       | 1~       |
|                                     | Frequency               |         | Hz | 50                              | 50       | 50       | 50       | 50       |
|                                     | Voltage                 |         | V  | 230                             | 230      | 230      | 230      | 230      |

### NOTES

- The sound pressure level is measured in an anechoic room at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 8 of this chapter.
- The sound power level is an absolute value indicating the "power" which a sound source generates.

## 2 Specifications



### ELECTRICAL DATA

**2**

#### RS+FTS20B

| Indoor unit | Outdoor unit | Power supply |                                  |      |     | Compressor |      | OFM |      | IFM |      |
|-------------|--------------|--------------|----------------------------------|------|-----|------------|------|-----|------|-----|------|
|             |              | Hz-Volts     | Voltage range                    | MCA  | MFA | RHz        | RLA  | W   | FLA  | W   | FLA  |
| FTS20BVMC   | RS20BVMC     | 50-230       | MAX. 50Hz 253V<br>MIN. 50Hz 207V | 13.0 | 15  | 38         | 2.91 | 25  | 0.35 | 18  | 0.20 |

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#### RS+FTS25B

| Indoor unit | Outdoor unit | Power supply |                                  |      |     | Compressor |      | OFM |      | IFM |      |
|-------------|--------------|--------------|----------------------------------|------|-----|------------|------|-----|------|-----|------|
|             |              | Hz-Volts     | Voltage range                    | MCA  | MFA | RHz        | RLA  | W   | FLA  | W   | FLA  |
| FTS25BVMC   | RS25BVMC     | 50-230       | MAX. 50Hz 253V<br>MIN. 50Hz 207V | 13.0 | 15  | 52         | 4.01 | 25  | 0.35 | 18  | 0.20 |

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#### RS+FTS35B

| Indoor unit | Outdoor unit | Power supply |                                  |      |     | Compressor |      | OFM |      | IFM |      |
|-------------|--------------|--------------|----------------------------------|------|-----|------------|------|-----|------|-----|------|
|             |              | Hz-Volts     | Voltage range                    | MCA  | MFA | RHz        | RLA  | W   | FLA  | W   | FLA  |
| FTS35BVMC   | RS35BVMC     | 50-230       | MAX. 50Hz 253V<br>MIN. 50Hz 207V | 13.0 | 15  | 71         | 5.51 | 25  | 0.35 | 18  | 0.20 |

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#### RS+FTS50B

| Indoor unit | Outdoor unit | Power supply |                                  |     |     | Compressor |      | OFM |      | IFM |      |
|-------------|--------------|--------------|----------------------------------|-----|-----|------------|------|-----|------|-----|------|
|             |              | Hz-Volts     | Voltage range                    | MCA | MFA | RHz        | RLA  | W   | FLA  | W   | FLA  |
| FTS50BVMC   | RS50BVMC     | 50-230       | MAX. 50Hz 253V<br>MIN. 50Hz 207V | 18  | 20  | 72         | 6.92 | 53  | 0.18 | 40  | 0.16 |

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#### RS+FTS60B

| Indoor unit | Outdoor unit | Power supply |                                  |     |     | Compressor |      | OFM |      | IFM |      |
|-------------|--------------|--------------|----------------------------------|-----|-----|------------|------|-----|------|-----|------|
|             |              | Hz-Volts     | Voltage range                    | MCA | MFA | RHz        | RLA  | W   | FLA  | W   | FLA  |
| FTS60BVMC   | RS60BVMC     | 50-230       | MAX. 50Hz 253V<br>MIN. 50Hz 207V | 18  | 20  | 72         | 6.92 | 53  | 0.24 | 43  | 0.16 |

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#### RS+FKS50B

| Indoor unit | Outdoor unit | Power supply |                                  |     |     | Compressor |      | OFM |      | IFM   |      |
|-------------|--------------|--------------|----------------------------------|-----|-----|------------|------|-----|------|-------|------|
|             |              | Hz-Volts     | Voltage range                    | MCA | MFA | RHz        | RLA  | W   | FLA  | W     | FLA  |
| FKS50BVMC   | RS50BVMC     | 50-230       | MAX. 50Hz 253V<br>MIN. 50Hz 207V | 18  | 20  | 76         | 7.04 | 53  | 0.18 | 14+14 | 0.31 |

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#### RS+FLKS50B

| Indoor unit | Outdoor unit | Power supply |                                  |     |     | Compressor |      | OFM |      | IFM |      |
|-------------|--------------|--------------|----------------------------------|-----|-----|------------|------|-----|------|-----|------|
|             |              | Hz-Volts     | Voltage range                    | MCA | MFA | RHz        | RLA  | W   | FLA  | W   | FLA  |
| FLKS50BVMC  | RS50BVMC     | 50-230       | MAX. 50Hz 253V<br>MIN. 50Hz 207V | 18  | 20  | 75         | 7.00 | 53  | 0.18 | 34  | 0.54 |

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#### 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                 |
| 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.

## 2 Specifications



### 2

#### ELECTRICAL DATA

##### RS+FCQ50,60B

\* This information was not available at the time of publication.

##### RS+FFQ50B

| Indoor unit | Outdoor unit | Power supply |                                  |     |     | Compressor |      | OFM |      | IFM |     |
|-------------|--------------|--------------|----------------------------------|-----|-----|------------|------|-----|------|-----|-----|
|             |              | Hz-Volts     | Voltage range                    | MCA | MFA | RHz        | RLA  | W   | FLA  | W   | FLA |
| FFQ         | RS           | 50-230       | MAX. 50Hz 253V<br>MIN. 50Hz 207V | 18  | 20  | 72         | 7.43 | 53  | 0.18 | 55  | 0.7 |

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##### RS+FFQ60B

| Indoor unit | Outdoor unit | Power supply |                                  |     |     | Compressor |      | OFM |      | IFM |     |
|-------------|--------------|--------------|----------------------------------|-----|-----|------------|------|-----|------|-----|-----|
|             |              | Hz-Volts     | Voltage range                    | MCA | MFA | RHz        | RLA  | W   | FLA  | W   | FLA |
| FFQ         | RS           | 50-230       | MAX. 50Hz 253V<br>MIN. 50Hz 207V | 18  | 20  | 85         | 8.45 | 53  | 0.24 | 55  | 0.7 |

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##### RS+FBQ50,60B

\* This information was not available at the time of publication.

##### RS+FHQ50B

| Indoor unit | Outdoor unit | Power supply |                                  |     |     | Compressor |      | OFM |      | IFM |     |
|-------------|--------------|--------------|----------------------------------|-----|-----|------------|------|-----|------|-----|-----|
|             |              | Hz-Volts     | Voltage range                    | MCA | MFA | RHz        | RLA  | W   | FLA  | W   | FLA |
| FHQ         | RS           | 50-230       | MAX. 50Hz 253V<br>MIN. 50Hz 207V | 15  | 15  | 78         | 4.91 | 19  | 0.35 | 62  | 0.6 |

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##### RS+FHQ60B

| Indoor unit | Outdoor unit | Power supply |                                  |     |     | Compressor |     | OFM |      | IFM |     |
|-------------|--------------|--------------|----------------------------------|-----|-----|------------|-----|-----|------|-----|-----|
|             |              | Hz-Volts     | Voltage range                    | MCA | MFA | RHz        | RLA | W   | FLA  | W   | FLA |
| FHQ         | RS           | 50-230       | MAX. 50Hz 253V<br>MIN. 50Hz 207V | 18  | 20  | 79         | 7.5 | 53  | 0.18 | 62  | 0.6 |

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#### 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                 |
| 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.

# 3 Capacity tables



## RS+FTS20B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 7.5  |
| BF  | 0.30 |

| Indoor |      | Outdoor temperature (°C) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 1.86                     | 1.36 | 0.52 | 1.80 | 1.31 | 0.58 | 1.74 | 1.27 | 0.64 | 1.71 | 1.25 | 0.65 | 1.67 | 1.22 | 0.66 | 1.60 | 1.17 | 0.71 |
| 16.0   | 22   | 2.01                     | 1.47 | 0.53 | 1.95 | 1.42 | 0.59 | 1.88 | 1.37 | 0.65 | 1.85 | 1.35 | 0.66 | 1.80 | 1.31 | 0.67 | 1.72 | 1.26 | 0.73 |
| 18.0   | 25   | 2.16                     | 1.58 | 0.53 | 2.09 | 1.53 | 0.60 | 2.02 | 1.47 | 0.66 | 1.98 | 1.45 | 0.67 | 1.93 | 1.41 | 0.68 | 1.85 | 1.35 | 0.74 |
| 19.0   | 27   | 2.24                     | 1.63 | 0.54 | 2.16 | 1.58 | 0.60 | 2.09 | 1.52 | 0.66 | 2.05 | 1.50 | 0.67 | 2.00 | 1.46 | 0.69 | 1.92 | 1.40 | 0.75 |
| 22.0   | 30   | 2.47                     | 1.80 | 0.56 | 2.39 | 1.74 | 0.62 | 2.31 | 1.68 | 0.68 | 2.27 | 1.66 | 0.69 | 2.21 | 1.61 | 0.71 | 2.12 | 1.55 | 0.77 |
| 24.0   | 32   | 2.63                     | 1.92 | 0.57 | 2.54 | 1.85 | 0.63 | 2.45 | 1.79 | 0.70 | 2.41 | 1.76 | 0.71 | 2.35 | 1.72 | 0.72 | 2.25 | 1.64 | 0.78 |

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## RS+FTS25B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 7.8  |
| BF  | 0.30 |

| Indoor |      | Outdoor temperature (°C) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 2.33                     | 1.55 | 0.67 | 2.25 | 1.49 | 0.74 | 2.17 | 1.44 | 0.82 | 2.14 | 1.42 | 0.83 | 2.08 | 1.38 | 0.85 | 2.00 | 1.32 | 0.92 |
| 16.0   | 22   | 2.51                     | 1.67 | 0.68 | 2.43 | 1.61 | 0.76 | 2.35 | 1.56 | 0.83 | 2.31 | 1.53 | 0.85 | 2.25 | 1.49 | 0.87 | 2.16 | 1.43 | 0.94 |
| 18.0   | 25   | 2.70                     | 1.79 | 0.69 | 2.61 | 1.73 | 0.77 | 2.52 | 1.67 | 0.85 | 2.48 | 1.65 | 0.86 | 2.42 | 1.60 | 0.88 | 2.32 | 1.54 | 0.95 |
| 19.0   | 27   | 2.80                     | 1.85 | 0.70 | 2.70 | 1.79 | 0.78 | 2.61 | 1.73 | 0.86 | 2.57 | 1.70 | 0.87 | 2.50 | 1.66 | 0.89 | 2.40 | 1.59 | 0.96 |
| 22.0   | 30   | 3.09                     | 2.05 | 0.72 | 2.99 | 1.98 | 0.80 | 2.88 | 1.91 | 0.88 | 2.84 | 1.88 | 0.90 | 2.76 | 1.83 | 0.92 | 2.65 | 1.76 | 0.99 |
| 24.0   | 32   | 3.28                     | 2.18 | 0.73 | 3.18 | 2.11 | 0.81 | 3.07 | 2.04 | 0.90 | 3.02 | 2.00 | 0.91 | 2.94 | 1.95 | 0.93 | 2.81 | 1.87 | 1.01 |

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## RS+FTS35B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 8    |
| BF  | 0.17 |

| Indoor |      | Outdoor temperature (°C) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 3.21                     | 2.19 | 0.77 | 3.06 | 2.12 | 0.87 | 2.91 | 2.05 | 0.96 | 2.85 | 2.02 | 1.00 | 2.76 | 1.98 | 1.06 | 2.61 | 1.91 | 1.15 |
| 16.0   | 22   | 3.37                     | 2.22 | 0.80 | 3.22 | 2.15 | 0.89 | 3.07 | 2.08 | 0.99 | 3.01 | 2.06 | 1.02 | 2.92 | 2.01 | 1.08 | 2.77 | 1.94 | 1.18 |
| 18.0   | 25   | 3.52                     | 2.26 | 0.82 | 3.37 | 2.19 | 0.92 | 3.22 | 2.12 | 1.01 | 3.16 | 2.09 | 1.05 | 3.07 | 2.05 | 1.11 | 2.92 | 1.98 | 1.20 |
| 19.0   | 27   | 3.60                     | 2.27 | 0.84 | 3.45 | 2.20 | 0.93 | 3.30 | 2.13 | 1.03 | 3.24 | 2.11 | 1.06 | 3.15 | 2.06 | 1.12 | 3.00 | 1.99 | 1.22 |
| 22.0   | 30   | 3.83                     | 2.33 | 0.87 | 3.68 | 2.26 | 0.97 | 3.53 | 2.19 | 1.06 | 3.47 | 2.16 | 1.10 | 3.38 | 2.12 | 1.16 | 3.23 | 2.05 | 1.25 |
| 24.0   | 32   | 3.99                     | 2.36 | 0.90 | 3.84 | 2.29 | 1.00 | 3.69 | 2.22 | 1.09 | 3.63 | 2.19 | 1.13 | 3.54 | 2.15 | 1.19 | 3.39 | 2.08 | 1.28 |

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## RS+FTS50B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 11.5 |
| BF  | 0.23 |

| Indoor |      | Outdoor temperature (°C) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 5.06                     | 3.28 | 1.31 | 4.91 | 3.21 | 1.41 | 4.76 | 3.14 | 1.50 | 4.70 | 3.11 | 1.54 | 4.61 | 3.07 | 1.60 | 4.46 | 3.00 | 1.69 |
| 16.0   | 22   | 5.22                     | 3.31 | 1.34 | 5.07 | 3.24 | 1.43 | 4.92 | 3.17 | 1.53 | 4.86 | 3.14 | 1.56 | 4.77 | 3.10 | 1.62 | 4.62 | 3.03 | 1.72 |
| 18.0   | 25   | 5.37                     | 3.34 | 1.36 | 5.22 | 3.27 | 1.46 | 5.07 | 3.20 | 1.55 | 5.01 | 3.18 | 1.59 | 4.92 | 3.13 | 1.65 | 4.77 | 3.06 | 1.74 |
| 19.0   | 27   | 5.45                     | 3.36 | 1.38 | 5.30 | 3.29 | 1.47 | 5.15 | 3.22 | 1.57 | 5.09 | 3.19 | 1.60 | 5.00 | 3.15 | 1.66 | 4.85 | 3.08 | 1.76 |
| 22.0   | 30   | 5.68                     | 3.41 | 1.41 | 5.53 | 3.34 | 1.51 | 5.38 | 3.27 | 1.60 | 5.32 | 3.24 | 1.64 | 5.23 | 3.20 | 1.70 | 5.08 | 3.13 | 1.79 |
| 24.0   | 32   | 5.84                     | 3.45 | 1.44 | 5.69 | 3.38 | 1.54 | 5.54 | 3.31 | 1.63 | 5.48 | 3.28 | 1.67 | 5.39 | 3.24 | 1.73 | 5.24 | 3.17 | 1.82 |

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## SYMBOLS

|      |                           |          |
|------|---------------------------|----------|
| AFR: | Air flow rate             | (m³/min) |
| BF:  | Bypass factor             |          |
| EWB: | Entering wet bulb temp.   | (°CWB)   |
| EDB: | Entering 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 cooling capacities and power input
- 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.)
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb}$   
 $SHC^* = 0.02 \times AFR (m^3/min) \times (1-BF) \times (DB-EDB)$   
 Add SHC\* to SHC.
- Capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 7.5 m  
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

# 3 Capacity tables



3

## RS+FTS60B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 16.4 |
| BF  | 0.30 |

| Indoor |      | Outdoor temperature (°C) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 6.06                     | 3.97 | 1.77 | 5.91 | 3.90 | 1.87 | 5.76 | 3.83 | 1.96 | 5.70 | 3.80 | 2.00 | 5.61 | 3.76 | 2.06 | 5.46 | 3.69 | 2.15 |
| 16.0   | 22   | 6.22                     | 4.00 | 1.80 | 6.07 | 3.93 | 1.89 | 5.92 | 3.86 | 1.99 | 5.86 | 3.83 | 2.02 | 5.77 | 3.79 | 2.08 | 5.62 | 3.72 | 2.18 |
| 18.0   | 25   | 6.37                     | 4.03 | 1.82 | 6.22 | 3.96 | 1.92 | 6.07 | 3.89 | 2.01 | 6.01 | 3.87 | 2.05 | 5.92 | 3.82 | 2.11 | 5.77 | 3.75 | 2.20 |
| 19.0   | 27   | 6.45                     | 4.05 | 1.84 | 6.30 | 3.98 | 1.93 | 6.15 | 3.91 | 2.03 | 6.09 | 3.88 | 2.06 | 6.00 | 3.84 | 2.12 | 5.85 | 3.77 | 2.22 |
| 22.0   | 30   | 6.68                     | 4.10 | 1.87 | 6.53 | 4.03 | 1.97 | 6.38 | 3.96 | 2.06 | 6.32 | 3.93 | 2.10 | 6.23 | 3.89 | 2.16 | 6.08 | 3.82 | 2.25 |
| 24.0   | 32   | 6.84                     | 4.14 | 1.90 | 6.69 | 4.07 | 2.00 | 6.54 | 4.00 | 2.09 | 6.48 | 3.97 | 2.13 | 6.39 | 3.93 | 2.19 | 6.24 | 3.86 | 2.28 |

3D040902

## RS+FLKS50B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 11.4 |
| BF  | 0.18 |

| Indoor |      | Outdoor temperature (°C) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 4.96                     | 3.26 | 1.37 | 4.81 | 3.19 | 1.47 | 4.66 | 3.12 | 1.56 | 4.60 | 3.09 | 1.60 | 4.51 | 3.05 | 1.66 | 4.36 | 2.98 | 1.75 |
| 16.0   | 22   | 5.12                     | 3.30 | 1.40 | 4.97 | 3.23 | 1.49 | 4.82 | 3.16 | 1.59 | 4.76 | 3.13 | 1.62 | 4.67 | 3.09 | 1.68 | 4.52 | 3.02 | 1.78 |
| 18.0   | 25   | 5.27                     | 3.33 | 1.42 | 5.12 | 3.26 | 1.52 | 4.97 | 3.19 | 1.61 | 4.91 | 3.16 | 1.65 | 4.82 | 3.12 | 1.71 | 4.67 | 3.05 | 1.80 |
| 19.0   | 27   | 5.35                     | 3.35 | 1.44 | 5.20 | 3.28 | 1.53 | 5.05 | 3.21 | 1.63 | 4.99 | 3.18 | 1.66 | 4.90 | 3.14 | 1.72 | 4.75 | 3.07 | 1.82 |
| 22.0   | 30   | 5.58                     | 3.40 | 1.47 | 5.43 | 3.33 | 1.57 | 5.28 | 3.26 | 1.66 | 5.22 | 3.23 | 1.70 | 5.13 | 3.19 | 1.76 | 4.98 | 3.12 | 1.85 |
| 24.0   | 32   | 5.74                     | 3.43 | 1.50 | 5.59 | 3.36 | 1.60 | 5.44 | 3.29 | 1.69 | 5.38 | 3.26 | 1.73 | 5.29 | 3.22 | 1.79 | 5.14 | 3.15 | 1.88 |

3D040900

## RS+FVK50B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 10.8 |
| BF  | 0.23 |

| Indoor |      | Outdoor temperature (°C) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 4.86                     | 3.15 | 1.35 | 4.71 | 3.08 | 1.45 | 4.56 | 3.01 | 1.54 | 4.50 | 2.98 | 1.58 | 4.41 | 2.94 | 1.64 | 4.26 | 2.87 | 1.73 |
| 16.0   | 22   | 5.02                     | 3.18 | 1.38 | 4.87 | 3.11 | 1.47 | 4.72 | 3.04 | 1.57 | 4.66 | 3.02 | 1.60 | 4.57 | 2.97 | 1.66 | 4.42 | 2.90 | 1.76 |
| 18.0   | 25   | 5.17                     | 3.22 | 1.40 | 5.02 | 3.15 | 1.50 | 4.87 | 3.08 | 1.59 | 4.81 | 3.05 | 1.63 | 4.72 | 3.01 | 1.69 | 4.57 | 2.94 | 1.78 |
| 19.0   | 27   | 5.25                     | 3.23 | 1.42 | 5.10 | 3.16 | 1.51 | 4.95 | 3.09 | 1.61 | 4.89 | 3.07 | 1.64 | 4.80 | 3.02 | 1.70 | 4.65 | 2.95 | 1.80 |
| 22.0   | 30   | 5.48                     | 3.29 | 1.45 | 5.33 | 3.22 | 1.55 | 5.18 | 3.15 | 1.64 | 5.12 | 3.12 | 1.68 | 5.03 | 3.08 | 1.74 | 4.88 | 3.01 | 1.83 |
| 24.0   | 32   | 5.64                     | 3.32 | 1.48 | 5.49 | 3.25 | 1.58 | 5.34 | 3.18 | 1.67 | 5.28 | 3.15 | 1.71 | 5.19 | 3.11 | 1.77 | 5.04 | 3.04 | 1.86 |

3D040901

## RS+FCQ50B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 18   |
| BF  | 0.10 |

| Indoor |      | Outdoor temperature (°C) |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |
|--------|------|--------------------------|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| 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   | 20.0 | 5.1                      | 3.7 | 1.57 | 4.9 | 3.6 | 1.67 | 4.8 | 3.5 | 1.76 | 4.7 | 3.5 | 1.80 | 4.6 | 3.5 | 1.86 | 4.5 | 3.4 | 1.95 |
| 16.0   | 22.0 | 5.2                      | 3.7 | 1.60 | 5.1 | 3.6 | 1.69 | 4.9 | 3.6 | 1.79 | 4.9 | 3.5 | 1.83 | 4.8 | 3.5 | 1.88 | 4.6 | 3.4 | 1.98 |
| 18.0   | 25.0 | 5.4                      | 3.7 | 1.62 | 5.2 | 3.7 | 1.72 | 5.1 | 3.6 | 1.81 | 5.0 | 3.6 | 1.85 | 4.9 | 3.5 | 1.91 | 4.8 | 3.5 | 2.00 |
| 19.0   | 27.0 | 5.5                      | 3.8 | 1.64 | 5.3 | 3.7 | 1.73 | 5.2 | 3.6 | 1.83 | 5.1 | 3.6 | 1.87 | 5.0 | 3.6 | 1.92 | 4.9 | 3.5 | 2.02 |
| 22.0   | 30.0 | 5.7                      | 3.8 | 1.68 | 5.5 | 3.7 | 1.77 | 5.4 | 3.7 | 1.87 | 5.3 | 3.6 | 1.90 | 5.2 | 3.6 | 1.96 | 5.1 | 3.5 | 2.06 |
| 24.0   | 32.0 | 5.8                      | 3.8 | 1.70 | 5.7 | 3.8 | 1.80 | 5.5 | 3.7 | 1.89 | 5.5 | 3.7 | 1.93 | 5.4 | 3.6 | 1.99 | 5.2 | 3.6 | 2.08 |

3TW25082-1

## 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)                |
| 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 cooling capacities and power input
- 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.)
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb}$   
 $SHC^* = 0.02 \times AFR \text{ (m}^3/\text{min)} \times (1 - BF) \times (DB - EDB)$   
 Add SHC\* to SHC.
- Capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 7.5 m  
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

# 3 Capacity tables



## RS+FCQ60B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 18   |
| BF  | 0.10 |

| Indoor |      | Outdoor temperature (°C) |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |
|--------|------|--------------------------|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| 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   | 20.0 | 5.8                      | 4.5 | 1.84 | 5.6 | 4.4 | 1.94 | 5.5 | 4.3 | 2.03 | 5.4 | 4.3 | 2.07 | 5.3 | 4.3 | 2.13 | 5.2 | 4.2 | 2.22 |
| 16.0   | 22.0 | 5.9                      | 4.5 | 1.87 | 5.8 | 4.4 | 1.96 | 5.6 | 4.4 | 2.06 | 5.6 | 4.4 | 2.10 | 5.5 | 4.3 | 2.15 | 5.3 | 4.2 | 2.25 |
| 18.0   | 25.0 | 6.1                      | 4.6 | 1.89 | 5.9 | 4.5 | 1.99 | 5.8 | 4.4 | 2.08 | 5.7 | 4.4 | 2.12 | 5.6 | 4.3 | 2.18 | 5.5 | 4.3 | 2.27 |
| 19.0   | 27.0 | 6.2                      | 4.6 | 1.91 | 6.0 | 4.5 | 2.00 | 5.9 | 4.4 | 2.10 | 5.8 | 4.4 | 2.13 | 5.7 | 4.4 | 2.19 | 5.6 | 4.3 | 2.29 |
| 22.0   | 30.0 | 6.4                      | 4.6 | 1.95 | 6.2 | 4.6 | 2.04 | 6.1 | 4.5 | 2.14 | 6.0 | 4.5 | 2.17 | 5.9 | 4.4 | 2.23 | 5.8 | 4.3 | 2.33 |
| 24.0   | 32.0 | 6.5                      | 4.7 | 1.97 | 6.4 | 4.6 | 2.07 | 6.2 | 4.5 | 2.16 | 6.2 | 4.5 | 2.20 | 6.1 | 4.4 | 2.26 | 5.9 | 4.4 | 2.35 |

3TW25082-1

## RS+FFQ50B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 12.0 |
| BF  | 0.16 |

| Indoor |      | Outdoor temperature (°C) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 4.76                     | 3.51 | 1.45 | 4.61 | 3.44 | 1.55 | 4.46 | 3.37 | 1.64 | 4.40 | 3.34 | 1.68 | 4.31 | 3.30 | 1.74 | 4.16 | 3.23 | 1.83 |
| 16.0   | 22   | 4.92                     | 3.54 | 1.48 | 4.77 | 3.47 | 1.57 | 4.62 | 3.40 | 1.67 | 4.56 | 3.38 | 1.70 | 4.47 | 3.33 | 1.76 | 4.32 | 3.26 | 1.86 |
| 18.0   | 25   | 5.07                     | 3.58 | 1.50 | 4.92 | 3.51 | 1.60 | 4.77 | 3.44 | 1.69 | 4.71 | 3.41 | 1.73 | 4.62 | 3.37 | 1.79 | 4.47 | 3.30 | 1.88 |
| 19.0   | 27   | 5.15                     | 3.59 | 1.52 | 5.00 | 3.52 | 1.61 | 4.85 | 3.45 | 1.71 | 4.79 | 3.43 | 1.74 | 4.70 | 3.38 | 1.80 | 4.55 | 3.31 | 1.90 |
| 22.0   | 30   | 5.38                     | 3.65 | 1.55 | 5.23 | 3.58 | 1.65 | 5.08 | 3.51 | 1.74 | 5.02 | 3.48 | 1.78 | 4.93 | 3.44 | 1.84 | 4.78 | 3.37 | 1.93 |
| 24.0   | 32   | 5.54                     | 3.68 | 1.58 | 5.39 | 3.61 | 1.68 | 5.24 | 3.54 | 1.77 | 5.18 | 3.51 | 1.81 | 5.09 | 3.47 | 1.87 | 4.94 | 3.40 | 1.96 |

3D041021

## RS+FFQ60B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 15.0 |
| BF  | 0.11 |

| Indoor |      | Outdoor temperature (°C) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 5.86                     | 4.30 | 1.72 | 5.71 | 4.23 | 1.82 | 5.56 | 4.16 | 1.91 | 5.50 | 4.13 | 1.95 | 5.41 | 4.09 | 2.01 | 5.26 | 4.02 | 2.10 |
| 16.0   | 22   | 6.02                     | 4.34 | 1.75 | 5.87 | 4.27 | 1.84 | 5.72 | 4.20 | 1.94 | 5.66 | 4.17 | 1.97 | 5.57 | 4.13 | 2.03 | 5.42 | 4.06 | 2.13 |
| 18.0   | 25   | 6.17                     | 4.37 | 1.77 | 6.02 | 4.30 | 1.87 | 5.87 | 4.23 | 1.96 | 5.81 | 4.20 | 2.00 | 5.72 | 4.16 | 2.06 | 5.57 | 4.09 | 2.15 |
| 19.0   | 27   | 6.25                     | 4.39 | 1.79 | 6.10 | 4.32 | 1.88 | 5.95 | 4.25 | 1.98 | 5.89 | 4.22 | 2.01 | 5.80 | 4.18 | 2.07 | 5.65 | 4.11 | 2.17 |
| 22.0   | 30   | 6.48                     | 4.44 | 1.82 | 6.33 | 4.37 | 1.92 | 6.18 | 4.30 | 2.01 | 6.12 | 4.27 | 2.05 | 6.03 | 4.23 | 2.11 | 5.88 | 4.16 | 2.20 |
| 24.0   | 32   | 6.64                     | 4.47 | 1.85 | 6.49 | 4.40 | 1.95 | 6.34 | 4.33 | 2.04 | 6.28 | 4.30 | 2.08 | 6.19 | 4.26 | 2.14 | 6.04 | 4.19 | 2.23 |

3D041026

## RS+FBQ25B

### Cooling capacity

230V [50Hz]

|     |      |
|-----|------|
| AFR | 11.5 |
| BF  | 0.15 |

| Indoor |      | Outdoor temperature (°C) |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |
|--------|------|--------------------------|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| 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   | 20.0 | 3.2                      | 2.4 | 0.91 | 3.1 | 2.3 | 1.01 | 3.0 | 2.2 | 1.12 | 2.9 | 2.2 | 1.13 | 2.8 | 2.1 | 1.16 | 2.7 | 2.0 | 1.25 |
| 16.0   | 22.0 | 3.4                      | 2.6 | 0.92 | 3.3 | 2.5 | 1.03 | 3.2 | 2.4 | 1.14 | 3.1 | 2.4 | 1.15 | 3.1 | 2.3 | 1.18 | 2.9 | 2.2 | 1.28 |
| 18.0   | 25.0 | 3.7                      | 2.8 | 0.94 | 3.6 | 2.7 | 1.05 | 3.4 | 2.6 | 1.16 | 3.4 | 2.5 | 1.17 | 3.3 | 2.5 | 1.20 | 3.2 | 2.4 | 1.30 |
| 19.0   | 27.0 | 3.8                      | 2.9 | 0.95 | 3.7 | 2.8 | 1.06 | 3.6 | 2.7 | 1.17 | 3.5 | 2.6 | 1.18 | 3.4 | 2.6 | 1.21 | 3.3 | 2.4 | 1.31 |
| 22.0   | 30.0 | 4.2                      | 3.2 | 0.97 | 4.1 | 3.0 | 1.09 | 3.9 | 2.9 | 1.20 | 3.9 | 2.9 | 1.22 | 3.8 | 2.8 | 1.25 | 3.6 | 2.7 | 1.35 |
| 24.0   | 32.0 | 4.5                      | 3.3 | 0.99 | 4.3 | 3.2 | 1.11 | 4.2 | 3.1 | 1.22 | 4.1 | 3.1 | 1.24 | 4.0 | 3.0 | 1.27 | 3.8 | 2.9 | 1.37 |

3TW25112-1

## 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)                |
| 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 cooling capacities and power input
- 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.)
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb}$   
 $SHC^* = 0.02 \times AFR \text{ (m}^3/\text{min)} \times (1 - BF) \times (DB - EDB)$   
 Add SHC\* to SHC.
- Capacities are based on the following conditions:  
 Corresponding refrigerant piping length: 7.5 m  
 Level difference: 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

# 3 Capacity tables



3

## RS+FBQ35B

|     |      |
|-----|------|
| AFR | 11.5 |
| BF  | 0.15 |

### Cooling capacity

230V [50Hz]

| Indoor |      | Outdoor temperature (°C) |     |      |     |     |      |     |     |      |     |     |      |     |     |      |     |     |      |
|--------|------|--------------------------|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|
| 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   | 20.0 | 3.2                      | 2.4 | 0.91 | 3.1 | 2.3 | 1.01 | 3.0 | 2.2 | 1.12 | 2.9 | 2.2 | 1.13 | 2.8 | 2.1 | 1.16 | 2.7 | 2.0 | 1.25 |
| 16.0   | 22.0 | 3.4                      | 2.6 | 0.92 | 3.3 | 2.5 | 1.03 | 3.2 | 2.4 | 1.14 | 3.1 | 2.4 | 1.15 | 3.1 | 2.3 | 1.18 | 2.9 | 2.2 | 1.28 |
| 18.0   | 25.0 | 3.7                      | 2.8 | 0.94 | 3.6 | 2.7 | 1.05 | 3.4 | 2.6 | 1.16 | 3.4 | 2.5 | 1.17 | 3.3 | 2.5 | 1.20 | 3.2 | 2.4 | 1.30 |
| 19.0   | 27.0 | 3.8                      | 2.9 | 0.95 | 3.7 | 2.8 | 1.06 | 3.6 | 2.7 | 1.17 | 3.5 | 2.6 | 1.18 | 3.4 | 2.6 | 1.21 | 3.3 | 2.4 | 1.31 |
| 22.0   | 30.0 | 4.2                      | 3.2 | 0.97 | 4.1 | 3.0 | 1.09 | 3.9 | 2.9 | 1.20 | 3.9 | 2.9 | 1.22 | 3.8 | 2.8 | 1.25 | 3.6 | 2.7 | 1.35 |
| 24.0   | 32.0 | 4.5                      | 3.3 | 0.99 | 4.3 | 3.2 | 1.11 | 4.2 | 3.1 | 1.22 | 4.1 | 3.1 | 1.24 | 4.0 | 3.0 | 1.27 | 3.8 | 2.9 | 1.37 |

3TW25112-1

## RS+FHQ50B

|     |     |
|-----|-----|
| AFR | 13  |
| BF  | 0.1 |

### Cooling capacity

230V [50Hz]

| Indoor |      | Outdoor temperature (°C) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 5.06                     | 3.63 | 1.48 | 4.91 | 3.56 | 1.58 | 4.76 | 3.49 | 1.67 | 4.70 | 3.46 | 1.71 | 4.61 | 3.42 | 1.77 | 4.46 | 3.35 | 1.86 |
| 16.0   | 22   | 5.22                     | 3.66 | 1.51 | 5.07 | 3.59 | 1.60 | 4.92 | 3.52 | 1.70 | 4.86 | 3.49 | 1.73 | 4.77 | 3.45 | 1.79 | 4.62 | 3.38 | 1.89 |
| 18.0   | 25   | 5.37                     | 3.69 | 1.53 | 5.22 | 3.62 | 1.63 | 5.07 | 3.55 | 1.72 | 5.01 | 3.53 | 1.76 | 4.92 | 3.48 | 1.82 | 4.77 | 3.41 | 1.91 |
| 19.0   | 27   | 5.45                     | 3.71 | 1.55 | 5.30 | 3.64 | 1.64 | 5.15 | 3.57 | 1.74 | 5.09 | 3.54 | 1.77 | 5.00 | 3.50 | 1.83 | 4.85 | 3.43 | 1.93 |
| 22.0   | 30   | 5.68                     | 3.76 | 1.58 | 5.53 | 3.69 | 1.68 | 5.38 | 3.62 | 1.77 | 5.32 | 3.59 | 1.81 | 5.23 | 3.55 | 1.87 | 5.08 | 3.48 | 1.96 |
| 24.0   | 32   | 5.84                     | 3.80 | 1.61 | 5.69 | 3.73 | 1.71 | 5.54 | 3.66 | 1.80 | 5.48 | 3.63 | 1.84 | 5.39 | 3.59 | 1.90 | 5.24 | 3.52 | 1.99 |

3D040602

## RS+FHQ60B

|     |     |
|-----|-----|
| AFR | 17  |
| BF  | 0.2 |

### Cooling capacity

230V [50Hz]

| Indoor |      | Outdoor temperature (°C) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------|------|--------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 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   | 5.76                     | 4.17 | 1.80 | 5.61 | 4.10 | 1.90 | 5.46 | 4.03 | 1.99 | 5.40 | 4.00 | 2.03 | 5.31 | 3.96 | 2.09 | 5.16 | 3.89 | 2.18 |
| 16.0   | 22   | 5.92                     | 4.21 | 1.83 | 5.77 | 4.14 | 1.92 | 5.62 | 4.07 | 2.02 | 5.56 | 4.04 | 2.05 | 5.47 | 4.00 | 2.11 | 5.32 | 3.93 | 2.21 |
| 18.0   | 25   | 6.07                     | 4.24 | 1.85 | 5.92 | 4.17 | 1.95 | 5.77 | 4.10 | 2.04 | 5.71 | 4.07 | 2.08 | 5.62 | 4.03 | 2.14 | 5.47 | 3.96 | 2.23 |
| 19.0   | 27   | 6.15                     | 4.26 | 1.87 | 6.00 | 4.19 | 1.96 | 5.85 | 4.12 | 2.06 | 5.79 | 4.09 | 2.09 | 5.70 | 4.05 | 2.15 | 5.55 | 3.98 | 2.25 |
| 22.0   | 30   | 6.38                     | 4.31 | 1.90 | 6.23 | 4.24 | 2.00 | 6.08 | 4.17 | 2.09 | 6.02 | 4.14 | 2.13 | 5.93 | 4.10 | 2.19 | 5.78 | 4.03 | 2.28 |
| 24.0   | 32   | 6.54                     | 4.34 | 1.93 | 6.39 | 4.27 | 2.03 | 6.24 | 4.20 | 2.12 | 6.18 | 4.17 | 2.16 | 6.09 | 4.13 | 2.22 | 5.94 | 4.06 | 2.31 |

3D040605

## 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)                |
| 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 cooling capacities and power input
- 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.)
- SHC is based on each EWB and EDB  
 $SHC^* = SHC \text{ correction for other dry bulb}$   
 $SHC^* = 0.02 \times AFR (m^3/min) \times (1-BF) \times (DB-EDB)$   
 Add SHC\* to SHC.
- Capacities are based on the following conditions:  
 Corresponding refrigerant piping length:  
 Level difference: 7.5 m  
 0 m
- Air flow rate (AFR) and Bypass factor (BF) are tabulated above.

## 4

## 3D038641A

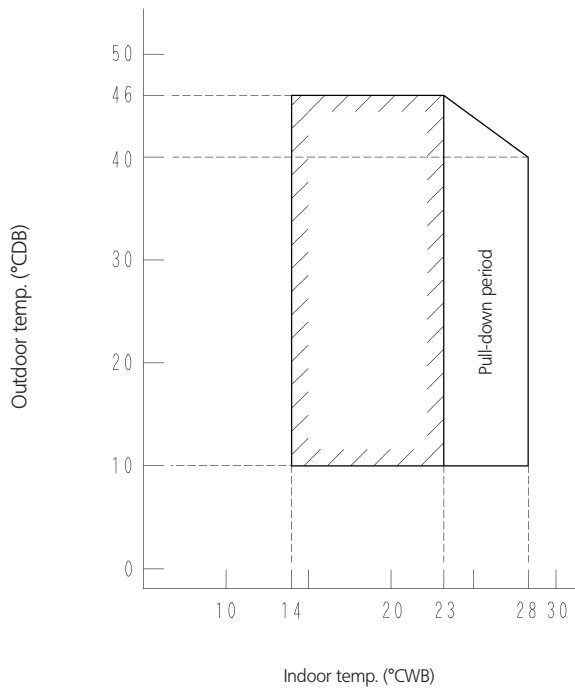
## 3D034257B

## 5 Operation range



5

RS20,25,35B



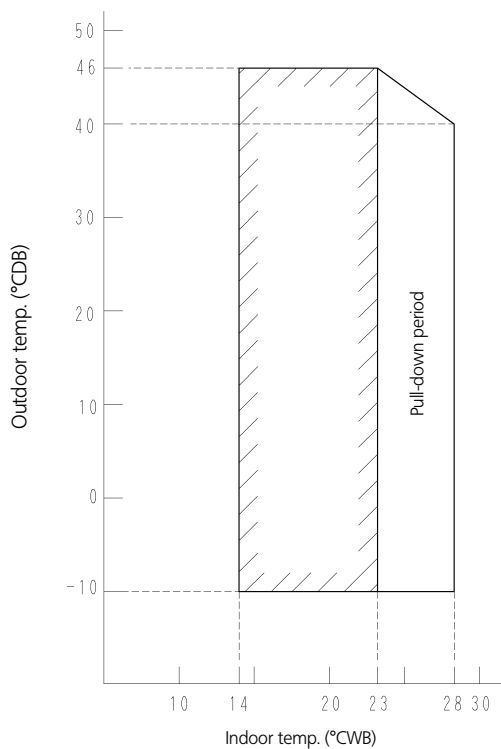
**Notes:**

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

4D013574F

RS50,60B



**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

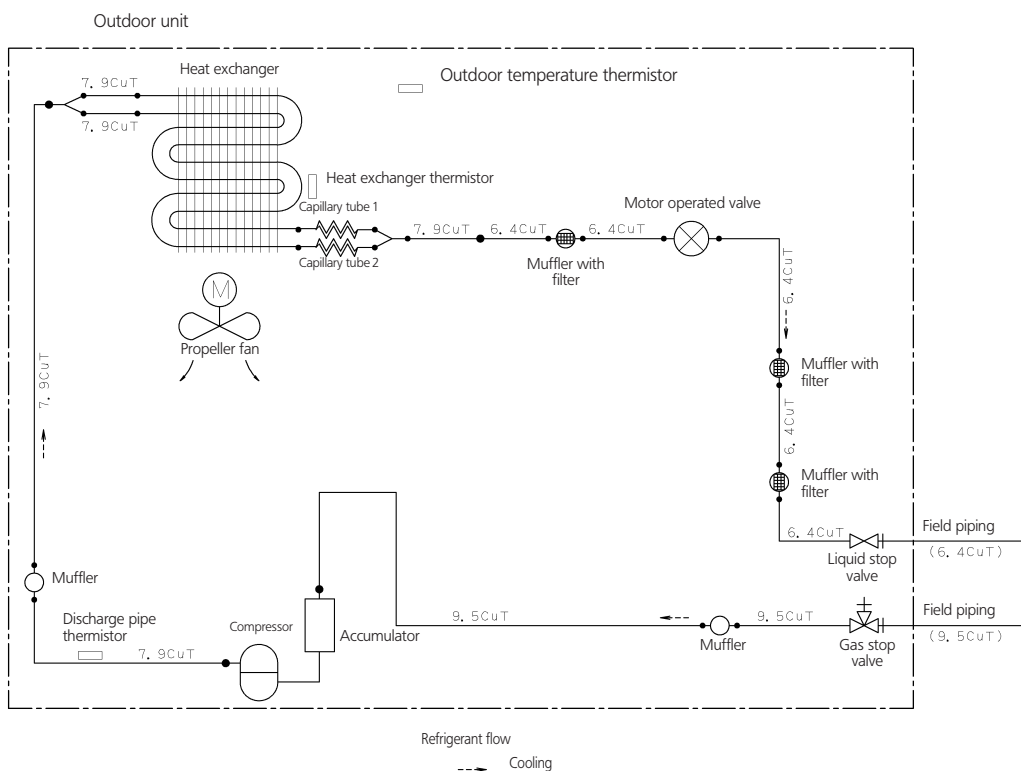
4D029297B

## 6 Piping diagrams



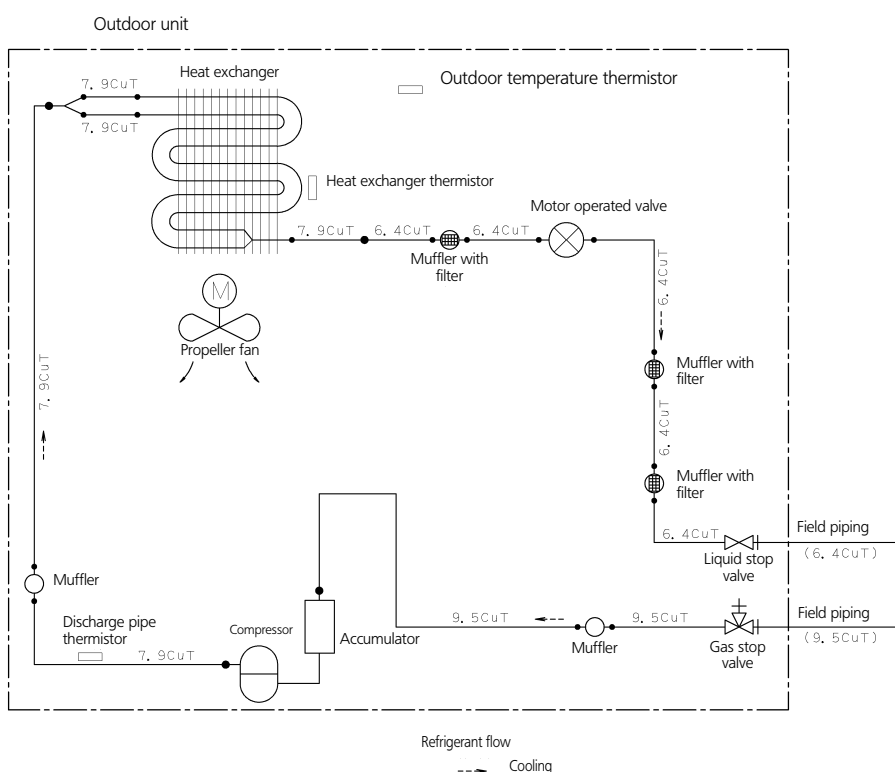
6

RS20,25B



3D039303

RS35



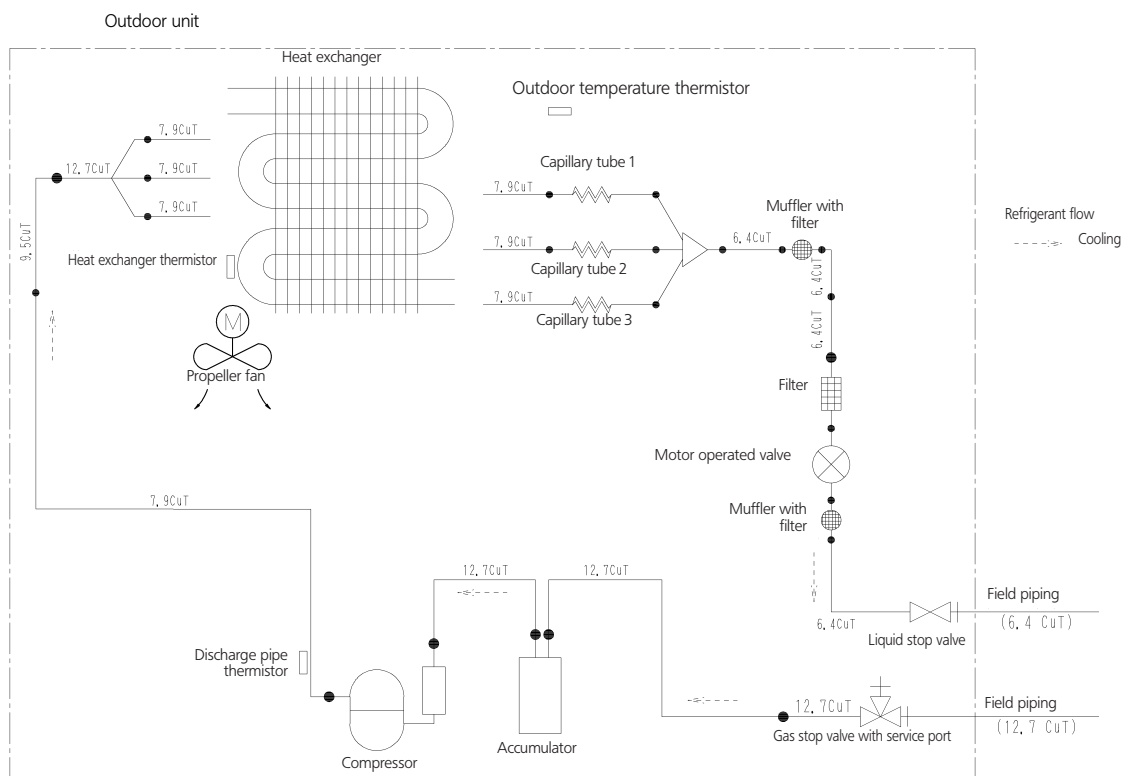
3D039304

# 6 Piping diagrams



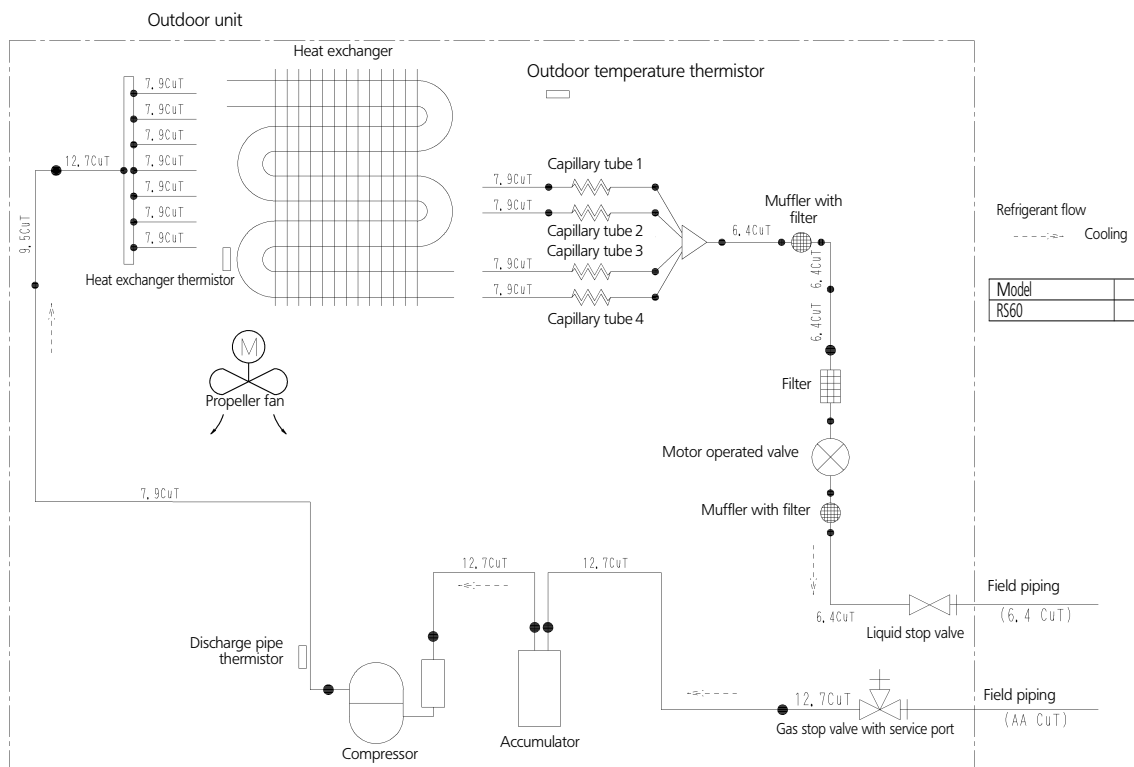
6

RS50



3D037835A

RS60



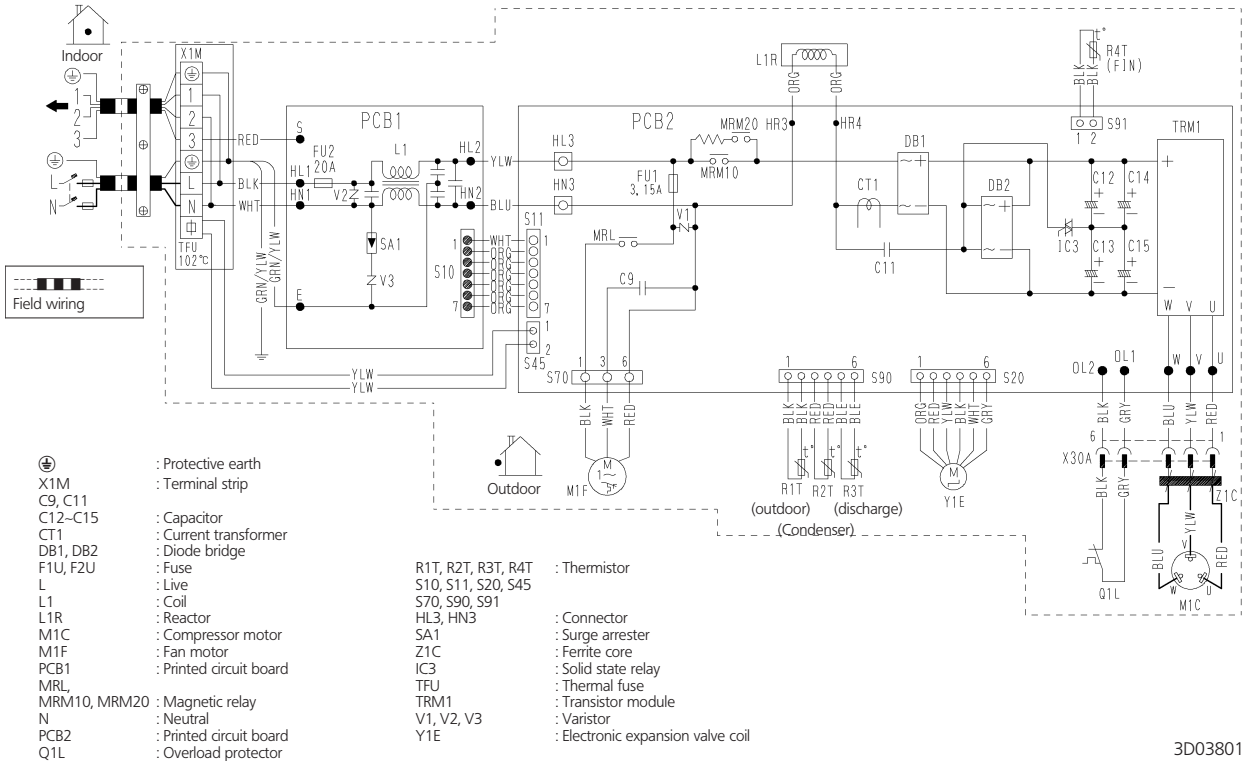
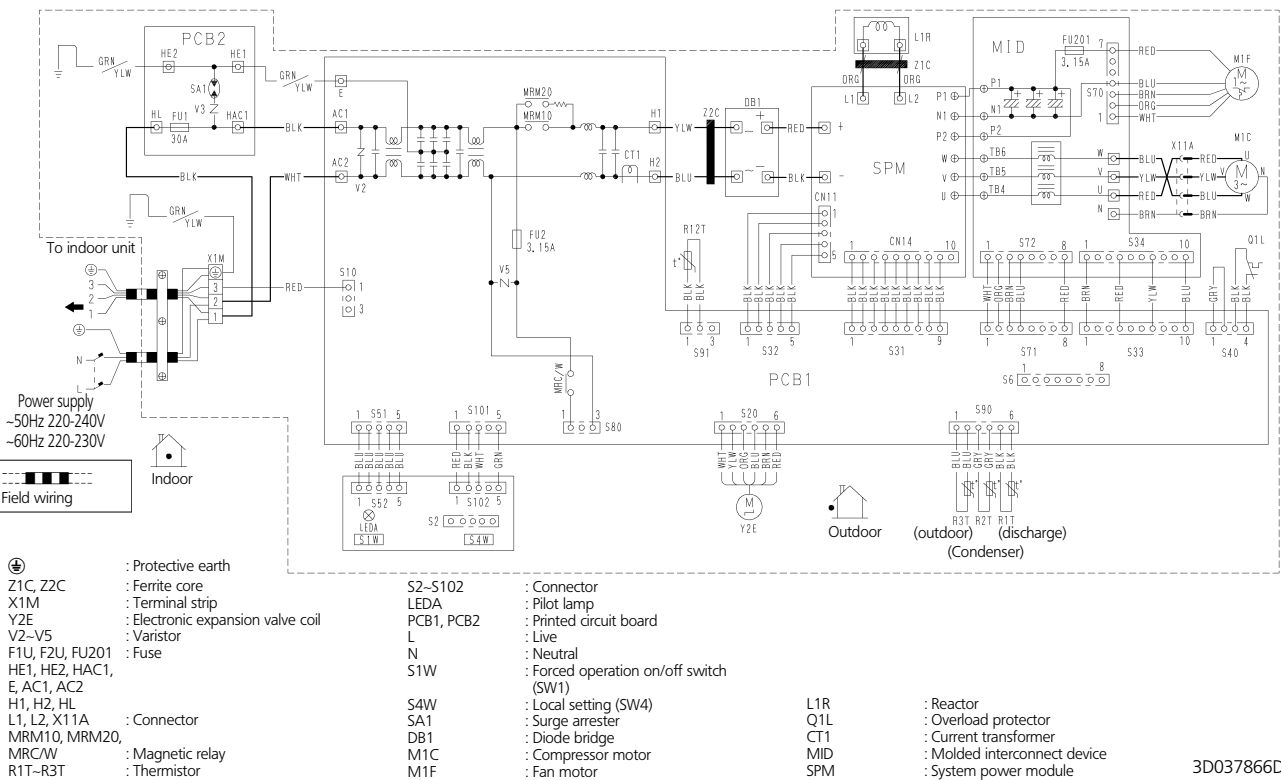
|       |      |
|-------|------|
| Model | AA   |
| RS60  | 12.7 |

3D037836A

## 7 Wiring diagrams



7

**RS20,25,35****RS50,60**

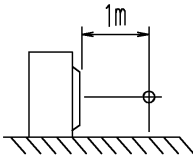
## 8 Sound level

### 8-1 Sound level data



#### 8 Cooling only

8-1

| Model | Sound pressure level |  | Measuring location                                                                 | Sound power level<br>(cooling) |
|-------|----------------------|--|------------------------------------------------------------------------------------|--------------------------------|
|       | 230V, 50Hz           |  |                                                                                    |                                |
|       | Cooling              |  |                                                                                    |                                |
|       | H                    |  |                                                                                    |                                |
| RS20B | 47                   |  |  | 60                             |
| RS25B | 47                   |  |                                                                                    | 60                             |
| RS35B | 47                   |  |                                                                                    | 60                             |
| RS50B | 47                   |  |                                                                                    | 63                             |
| RS60B | 49                   |  |                                                                                    | 64                             |

# 8 Sound level

## 8-2 Sound pressure spectrum

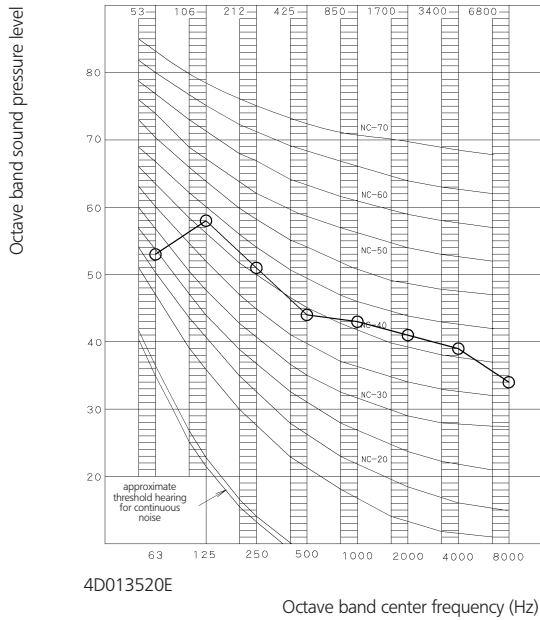


Cooling only

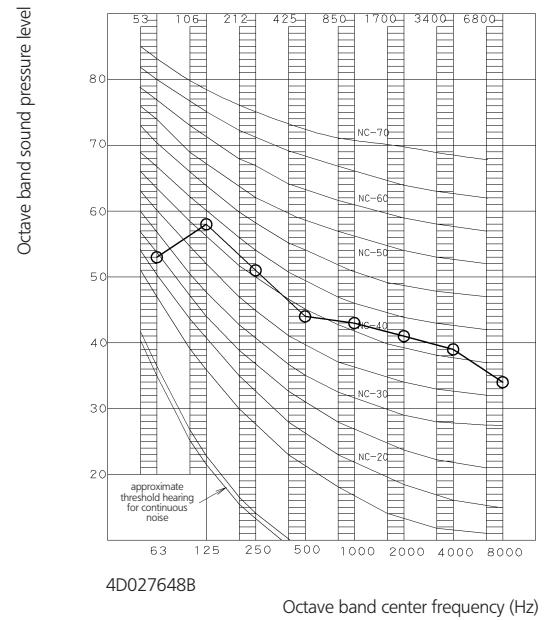
8

8-2

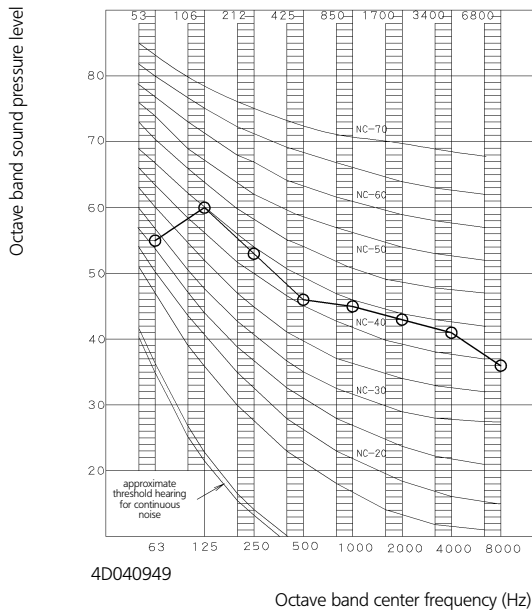
RS20,25,35B



RS50B



RS60B



Legend

○—○ 50/60Hz, 220-240/220-230V

### NOTES

- 1 Operation sound is measured in an anechoic chamber.
- 2 Operation sound level differs with operation and ambient conditions.
- 3 Reference acoustic pressure 0dB = 20μPa



9

Accessories

9-1

Standard accessories

9

9-1

RS-B

| Accessories supplied with the outdoor unit: |   |
|---------------------------------------------|---|
| Installation manual                         | 1 |

9-2

Optional accessories

RS-B

|                                 | RS20BVMB | RS25BVMB | RS35BVMB | RS50BVMB | RS60BVMB |
|---------------------------------|----------|----------|----------|----------|----------|
| Air direction adjustment grille | KPW937A4 |          | KPW945A4 |          |          |

# 10 Installation



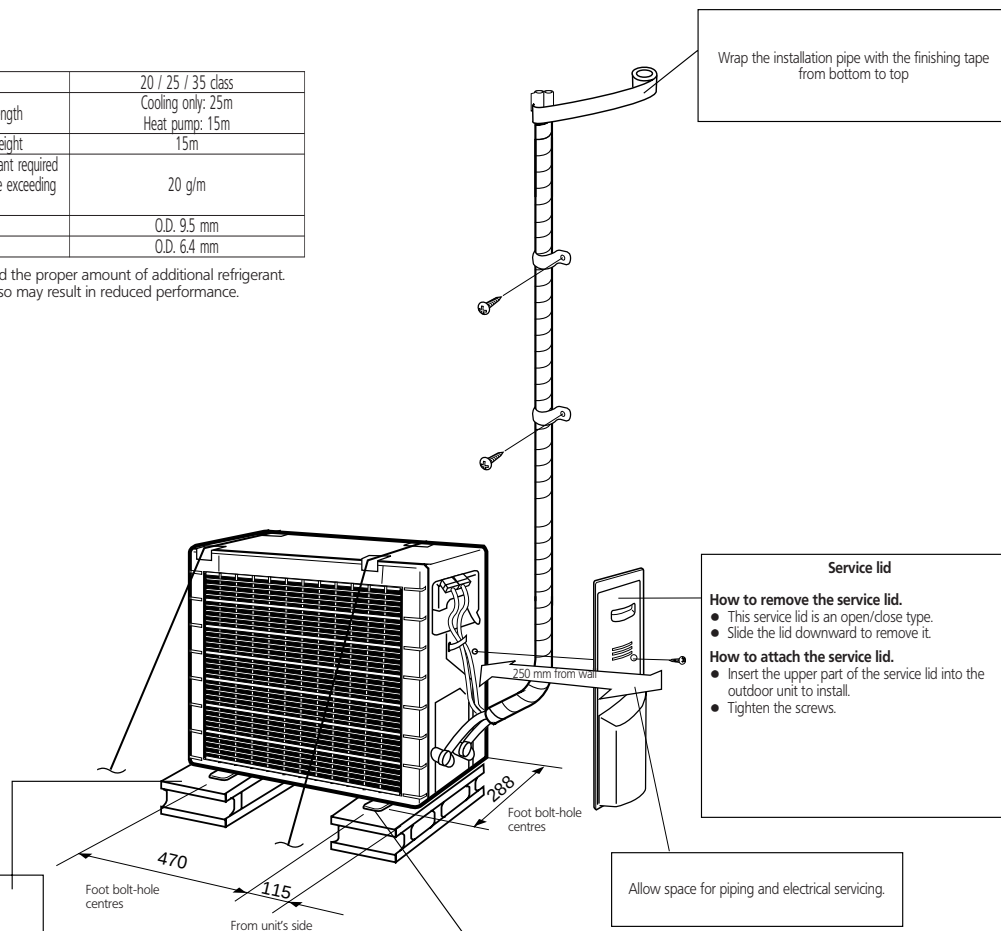
10

RS20,25,35B

## Outdoor unit installation drawings

|                                                                                |                                     |
|--------------------------------------------------------------------------------|-------------------------------------|
| Model                                                                          | 20 / 25 / 35 class                  |
| Max. allowable length                                                          | Cooling only: 25m<br>Heat pump: 15m |
| Max. allowable height                                                          | 15m                                 |
| Additional refrigerant required for refrigerant pipe exceeding 10 m in length. | 20 g/m                              |
| Gas pipe                                                                       | O.D. 9.5 mm                         |
| Liquid pipe                                                                    | O.D. 6.4 mm                         |

\* Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.



In sites with poor drainage, use block bases for outdoor unit. Adjust foot height until the unit is leveled. Otherwise, water leakage or pooling of water may occur.

Where there is a danger of the unit falling, use foot bolts, or wires.

### Service lid

#### How to remove the service lid.

- This service lid is an open/close type.
- Slide the lid downward to remove it.

#### How to attach the service lid.

- Insert the upper part of the service lid into the outdoor unit to install.
- Tighten the screws.

Allow space for piping and electrical servicing.

# 10 Installation



10

RS50,60B

## Outdoor unit installation drawings

| Model                                                                          | 50 class     | 60 class |
|--------------------------------------------------------------------------------|--------------|----------|
| Max. allowable length                                                          | 30m          |          |
| Max. allowable height                                                          | 20m          |          |
| Additional refrigerant required for refrigerant pipe exceeding 10 m in length. | 20 g/m       |          |
| Gas pipe                                                                       | O.D. 12.7 mm |          |
| Liquid pipe                                                                    | O.D. 6.4 mm  |          |

\* Be sure to add the proper amount of additional refrigerant. Failure to do so may result in reduced performance.

In sites with poor drainage, use block bases for outdoor unit. Adjust foot height until the unit is leveled. Otherwise, water leakage or pooling of water may occur.

