

**DAIKIN**



# TECHNICAL DATA

## Split-Sky Air



**RMX-JZ**

**Super Multi Plus**



# 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 NV 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 NV 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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**DAIKIN EUROPE NV** Zandvoordestraat 300, B-8400 Oostende

Internet <http://www.daikin.be>



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# 1 Features

## 1

- The RMX gives you a high-capacity multi split system which combines the power and easy installation of a VRV outdoor unit with the quiet operation of residential - use indoor units.
- The Super Multi Plus has more than enough power to drive up to 7 indoor units, including a 7.1 kW class unit.
- An inverter driven air conditioner has the capacity to provide full power in all rooms at the same time, yet is also energy saving.
- A 115-meter piping length means there are now no restrictions on the choice of installation position for indoor units, greatly improving planning flexibility.



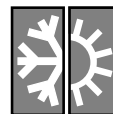
## 2



## 2 Specifications

**2**

| TECHNICAL SPECIFICATIONS |                                                 |        |                     |                                                          |
|--------------------------|-------------------------------------------------|--------|---------------------|----------------------------------------------------------|
| OUTDOOR UNITS            |                                                 |        |                     | RMX140JZVMB                                              |
| DIMENSIONS               | Unit                                            | H      | mm                  | 1,345                                                    |
|                          |                                                 | W      | mm                  | 880                                                      |
|                          |                                                 | D      | mm                  | 320                                                      |
| WEIGHT                   | Unit                                            |        | kg                  | 136                                                      |
| MATERIAL                 | Unit                                            |        |                     | -                                                        |
| COLOUR                   | Unit                                            |        |                     | Ivory white                                              |
| SOUND LEVEL              | Sound pressure (1)<br>Cooling/heating           | high   | dBA                 | 53/53                                                    |
|                          |                                                 | low    | dBA                 | -                                                        |
|                          | Sound power (2)                                 |        | dBA                 | -                                                        |
| FAN                      | Air flow rate                                   | high   | m <sup>3</sup> /min | 114                                                      |
|                          |                                                 | low    | m <sup>3</sup> /min | 104                                                      |
|                          | Type                                            |        |                     | Propeller                                                |
|                          | Qty x model                                     |        |                     | 2 x D90A-37                                              |
|                          | Qty x motor output<br>(Upper side / lower side) | H      | W                   | 1 x 53 / 1 x 41                                          |
|                          |                                                 | L      | W                   | 1 x 38 / 1 x 30                                          |
| HEAT EXCHANGER           | Type                                            |        |                     | WF FIN, $\phi$ 8 ONHI-XA tube (anti-corrosion treatment) |
|                          | Rows x stages x fin pitch                       |        | mm                  | 2 x 60 x 2                                               |
|                          | Face area                                       |        | m <sup>2</sup>      | -                                                        |
| REFRIGERANT CIRCUIT      | Refrigerant type                                |        |                     | R-407C                                                   |
|                          | Refrigerant charge                              |        | kg                  | 9.9                                                      |
|                          | Number of circuits                              |        |                     | -                                                        |
| COMPRESSOR               | Type                                            |        |                     | Hermetically sealed scroll type (Oval discharge)         |
|                          | Qty x model                                     |        |                     | 1 x JT100FAVD                                            |
|                          | No. of cylinders                                |        |                     | -                                                        |
|                          | Speed<br>(Upper side / lower side)              | H      | rpm                 | 775/715                                                  |
|                          |                                                 | L      | rpm                 | 700/650                                                  |
|                          | Oil type                                        |        |                     | DAPHNE FVC68D                                            |
|                          | Oil charge volume                               |        | ℓ                   | 1.5                                                      |
|                          | Crankcase heater                                |        | W                   | -                                                        |
| PIPING CONNECTIONS       |                                                 | liquid | mm                  | $\phi$ 9.5 (flare)                                       |
|                          |                                                 | gas    | mm                  | $\phi$ 19.1 (flare)                                      |
|                          |                                                 | drain  | mm                  | $\phi$ 18                                                |
| INSULATION MATERIAL      | Heat insulation                                 |        |                     | Both liquid and gas pipes                                |



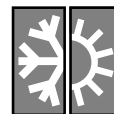
## 2 Specifications

### 2

| ELECTRICAL SPECIFICATIONS              |                                                      |         |         |             |
|----------------------------------------|------------------------------------------------------|---------|---------|-------------|
| OUTDOOR UNITS                          |                                                      |         |         | RMX140JZVMB |
| CURRENT                                | Nominal running current<br>(Upper side / lower side) | H       | A       | 0.50/0.47   |
|                                        |                                                      | L       | A       | 0.45/0.42   |
|                                        | Starting current                                     | cooling | A       | 29.0        |
|                                        |                                                      | heating | A       | 29.0        |
|                                        |                                                      |         |         |             |
| OUTDOOR UNITS                          |                                                      |         |         | RMX140JZVMB |
| POWER SUPPLY                           |                                                      |         |         | V1          |
| NOMINAL DISTRIBUTION<br>SYSTEM VOLTAGE | Phase                                                |         | 1~      |             |
|                                        | Frequency                                            | Hz      | 50      |             |
|                                        | Voltage                                              | V       | 220/240 |             |

### NOTES

- The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment.
- The sound power level is an absolute value indicating the "power" which a sound source generates.
- Maximum allowable distance between indoor and outdoor unit: 115m (total main piping and branch piping), 55m (total main piping), 60m (total branch piping), 15m (max. length for each room).  
Maximum allowable level difference: 30m (between indoor or BP unit and outdoor unit), 15m (between indoor units and BP units).
- No additional refrigerant charge



## 2 Specifications

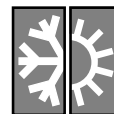
**2**

| TECHNICAL SPECIFICATIONS     |                      |        |    |                                   |  |                                   |
|------------------------------|----------------------|--------|----|-----------------------------------|--|-----------------------------------|
| For branch providers only:   |                      |        |    |                                   |  |                                   |
| BRANCH PROVIDER              |                      |        |    | BPMK928B42                        |  | BPMK928B43                        |
| CONNECTABLE INDOOR UNITS     |                      |        |    | 1~2                               |  | 1~2                               |
| NOMINAL INPUT                |                      |        | kW | 10                                |  | 10                                |
| DIMENSIONS                   | Unit                 | H      | mm | 223                               |  | 223                               |
|                              |                      | W      | mm | 400                               |  | 400                               |
|                              |                      | D      | mm | 272                               |  | 272                               |
| WEIGHT                       |                      |        | kg | 7                                 |  | 8                                 |
| COLOUR                       | Unit                 |        |    | -                                 |  | -                                 |
| NUMBER OF WIRING CONNECTIONS |                      |        |    | 4 for Interunit wiring            |  |                                   |
| RUNNING CURRENT              |                      |        | A  | 0.05                              |  | 0.05                              |
| MAX. COMBINATION             |                      |        | kW | 18.9                              |  | 18.9                              |
| MIN. COMBINATION             |                      |        | kW | 2.5                               |  | 2.5                               |
| PIPING CONNECTIONS           |                      | liquid | mm | Main: φ9.5 x 1/Branch: φ6.4 x 2   |  | Main: φ9.5 x 1/Branch: φ6.4 x 3   |
|                              |                      | gas    | mm | Main: φ19.1 x 1/Branch: φ15.9 x 2 |  | Main: φ19.1 x 1/Branch: φ15.9 x 3 |
|                              |                      | drain  | mm | Drain processingless              |  |                                   |
| INSULATION MATERIAL          | Heat insulation tape |        |    | Both liquid and gas pipes         |  |                                   |

| ELECTRICAL SPECIFICATIONS           |                         |    |            |  |            |
|-------------------------------------|-------------------------|----|------------|--|------------|
| Branch providers                    |                         |    | BPMK928B42 |  | BPMK928B43 |
| CURRENT                             | Nominal running current | A  | 0.05       |  | 0.05       |
| Branch providers                    |                         |    |            |  |            |
| POWER SUPPLY                        |                         |    | V1         |  | V1         |
| NOMINAL DISTRIBUTION SYSTEM VOLTAGE | Phase                   |    | 1~         |  | 1~         |
|                                     | Frequency               | Hz | 50         |  | 50         |
|                                     | Voltage                 | V  | 230        |  | 230        |

### NOTES

- BP or indoor unit max. height - BP or indoor unit min. Height → max. 15m.  
Set up BP and IU in 15m.
- The piping connection must be cut so as to suit the piping sizes of the indoor unit which will be connected. The same sizes should be used for the piping on the outdoor unit.



## 2 Specifications

### 2

#### ELECTRICAL DATA

##### RMX140JZVMB

| Model       | Type | Unit     |               |      |      | Comp. |     | Comp. |      | OFM   |          |
|-------------|------|----------|---------------|------|------|-------|-----|-------|------|-------|----------|
|             |      | Hz-volts | Voltage range | Min. | Max. | MCA   | MFA | MSC   | RLA  | kW    | FLA      |
| RMX140JZVMB | VM   | 50       | 230V          | 198  | 264  | 23.2  | 30  | 26    | 21.2 | 53+41 | 0.5+0.47 |

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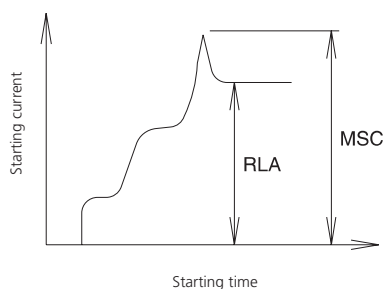
#### SYMBOLS

|     |                          |
|-----|--------------------------|
| MCA | : Min. Circuit Amps      |
| MFA | : Max. Fuse Amps         |
| MSC | : Max. Starting Current  |
| RLA | : Rated Load Amps (A)    |
| OFM | : Outdoor Fan Motor      |
| FLA | : Full Load Amps         |
| kW  | : Fan Motor Rated Output |

#### NOTES

- 1 RLA is based on the following conditions:  
Indoor temperature 27°CDB/19°CWB  
Outdoor temperature 35°CDB
- 2 MSC means the max. current during the starting of compressor.
- 3 Voltage range  
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed operation range limits
- 4 Maximum allowable voltage variation between phases is 2%
- 5 MCA / MFA  
 $MCA = 1.25 \times \text{max. RLA} + \text{other RLA} + \text{ea. FLA}$   
 $MFA \leq 2.25 \times \text{max. RLA} + \text{other RLA} + \text{ea. FLA}$   
(Next lower standard fuse rating. Min. 15A)
- 6 Select wire size based on the larger value of MCA.
- 7 MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker).

The relationship between the starting time and the starting current



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### 3 Combination table

3

| Indoor unit capacity | FTX(D), CDX |     |     |     | FTXD | FLX |     |     |     | FVX |     |
|----------------------|-------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| Type                 | 25          | 35  | 50  | 60  | 71   | 25  | 35  | 50  | 60  | 25  | 35  |
| Rated capacity (kW)  | 2.5         | 3.5 | 5.0 | 6.0 | 7.1  | 2.5 | 3.5 | 5.0 | 5.7 | 2.5 | 3.5 |

| Indoor unit capacity | FHYC |     |      |     | FHYB |      |      |     |
|----------------------|------|-----|------|-----|------|------|------|-----|
| Type                 | 35   | 45  | 60   | 71  | 35   | 45   | 60   | 71  |
| Rated capacity (kW)  | 3.75 | 5.2 | 6.15 | 7.7 | 3.8  | 4.45 | 6.25 | 7.2 |

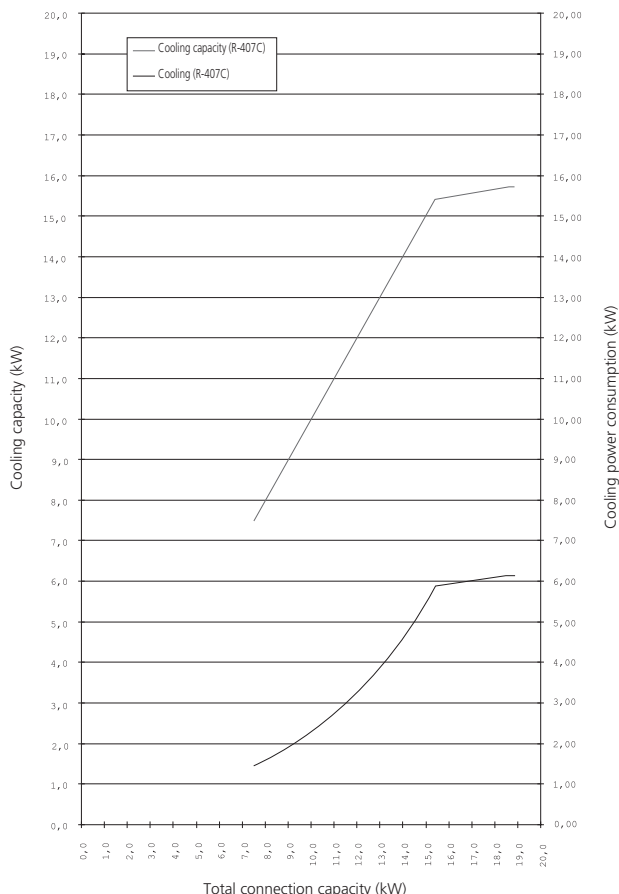
#### Combination capacity index

The rated capacities above show the rise in indoor unit connection capacity when operating frequency is constant.  
Values for changes in capacity are fixed after accounting for variations in operating frequency and should be used as reference values.

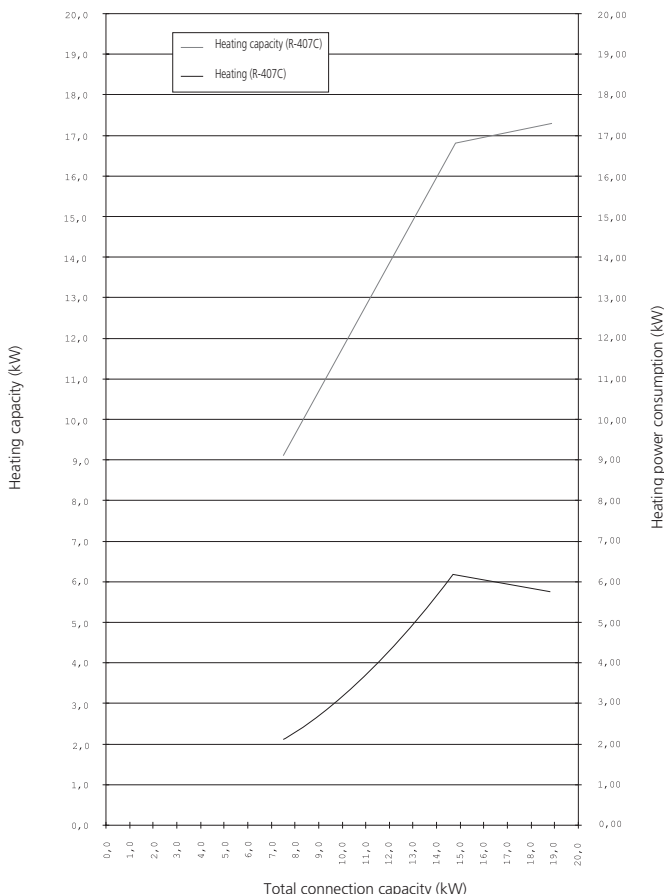
A: Capacity or power consumption

The A of each indoor unit =  $\frac{\text{The A calculated on the table above} \times \text{the rated A of each indoor unit}}{\text{The total rated A of the indoor units}}$

#### Comparison of cooling capacity

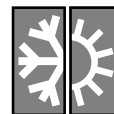


#### Comparison of heating capacity



#### NOTES

Cooling capacity is based on 27°CDB / 19°CWB (indoor temperature), 35°CDB (outdoor temperature).  
Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).  
The rated capacities above show the rise in indoor unit connection capacity when operating frequency is constant.  
Values for changes in capacity are fixed after accounting for variations in operating frequency and should be used as reference values.



### 3 Combination table

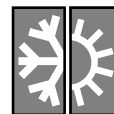
#### 3 RMX140JZ

##### Indoor unit combination capacity (R-407C)

| Total indoor unit capacity (kW) | RMX140JZ                  |                           |                        |                  |         |         |
|---------------------------------|---------------------------|---------------------------|------------------------|------------------|---------|---------|
|                                 | Capacity (kW)             |                           | Power consumption (kW) |                  | COP     |         |
|                                 | Cooling capacity (R-407C) | Heating capacity (R-407C) | Cooling (R-407C)       | Heating (R-407C) | Cooling | Heating |
| 7.5                             | 7.5                       | 9.1                       | 1.46                   | 2.12             | 5.14    | 4.29    |
| 7.6                             | 7.6                       | 9.2                       | 1.49                   | 2.16             | 5.11    | 4.27    |
| 7.7                             | 7.7                       | 9.3                       | 1.52                   | 2.19             | 5.08    | 4.26    |
| 7.8                             | 7.8                       | 9.4                       | 1.55                   | 2.23             | 5.05    | 4.24    |
| 7.9                             | 7.9                       | 9.5                       | 1.57                   | 2.26             | 5.02    | 4.22    |
| 8.0                             | 8.0                       | 9.7                       | 1.61                   | 2.30             | 4.98    | 4.20    |
| 8.1                             | 8.1                       | 9.8                       | 1.64                   | 2.33             | 4.95    | 4.18    |
| 8.2                             | 8.2                       | 9.9                       | 1.67                   | 2.37             | 4.92    | 4.16    |
| 8.3                             | 8.3                       | 10.0                      | 1.70                   | 2.41             | 4.89    | 4.14    |
| 8.4                             | 8.4                       | 10.1                      | 1.73                   | 2.45             | 4.86    | 4.12    |
| 8.5                             | 8.5                       | 10.2                      | 1.76                   | 2.49             | 4.82    | 4.10    |
| 8.6                             | 8.6                       | 10.3                      | 1.79                   | 2.52             | 4.79    | 4.07    |
| 8.7                             | 8.7                       | 10.4                      | 1.83                   | 2.57             | 4.76    | 4.05    |
| 8.8                             | 8.8                       | 10.5                      | 1.86                   | 2.61             | 4.73    | 4.03    |
| 8.9                             | 8.9                       | 10.6                      | 1.90                   | 2.65             | 4.70    | 4.00    |
| 9.0                             | 9.0                       | 10.7                      | 1.93                   | 2.69             | 4.66    | 3.98    |
| 9.1                             | 9.1                       | 10.8                      | 1.96                   | 2.73             | 4.63    | 3.96    |
| 9.2                             | 9.2                       | 10.9                      | 2.00                   | 2.78             | 4.60    | 3.93    |
| 9.3                             | 9.3                       | 11.0                      | 2.04                   | 2.82             | 4.57    | 3.91    |
| 9.4                             | 9.4                       | 11.1                      | 2.07                   | 2.87             | 4.53    | 3.88    |
| 9.5                             | 9.5                       | 11.2                      | 2.11                   | 2.91             | 4.50    | 3.86    |
| 9.6                             | 9.6                       | 11.3                      | 2.15                   | 2.96             | 4.47    | 3.83    |
| 9.7                             | 9.7                       | 11.4                      | 2.19                   | 3.00             | 4.44    | 3.81    |
| 9.8                             | 9.8                       | 11.5                      | 2.22                   | 3.05             | 4.41    | 3.78    |
| 9.9                             | 9.9                       | 11.7                      | 2.26                   | 3.10             | 4.37    | 3.76    |
| 10.0                            | 10.0                      | 11.8                      | 2.30                   | 3.15             | 4.34    | 3.73    |
| 10.1                            | 10.1                      | 11.9                      | 2.34                   | 3.20             | 4.31    | 3.71    |
| 10.2                            | 10.2                      | 12.0                      | 2.38                   | 3.25             | 4.28    | 3.68    |
| 10.3                            | 10.3                      | 12.1                      | 2.43                   | 3.30             | 4.25    | 3.66    |
| 10.4                            | 10.4                      | 12.2                      | 2.47                   | 3.35             | 4.21    | 3.63    |
| 10.5                            | 10.5                      | 12.3                      | 2.51                   | 3.40             | 4.18    | 3.61    |
| 10.6                            | 10.6                      | 12.4                      | 2.55                   | 3.46             | 4.15    | 3.59    |
| 10.7                            | 10.7                      | 12.5                      | 2.60                   | 3.51             | 4.12    | 3.56    |
| 10.8                            | 10.8                      | 12.6                      | 2.64                   | 3.56             | 4.09    | 3.54    |
| 10.9                            | 10.9                      | 12.7                      | 2.69                   | 3.62             | 4.05    | 3.51    |
| 11.0                            | 11.0                      | 12.8                      | 2.74                   | 3.68             | 4.02    | 3.49    |
| 11.1                            | 11.1                      | 12.9                      | 2.78                   | 3.73             | 3.99    | 3.46    |
| 11.2                            | 11.2                      | 13.0                      | 2.83                   | 3.79             | 3.96    | 3.44    |
| 11.3                            | 11.3                      | 13.1                      | 2.88                   | 3.85             | 3.93    | 3.41    |
| 11.4                            | 11.4                      | 13.2                      | 2.93                   | 3.91             | 3.89    | 3.39    |
| 11.5                            | 11.5                      | 13.3                      | 2.98                   | 3.96             | 3.86    | 3.37    |
| 11.6                            | 11.6                      | 13.4                      | 3.03                   | 4.02             | 3.83    | 3.34    |
| 11.7                            | 11.7                      | 13.6                      | 3.08                   | 4.08             | 3.80    | 3.32    |
| 11.8                            | 11.8                      | 13.7                      | 3.13                   | 4.15             | 3.76    | 3.29    |
| 11.9                            | 11.9                      | 13.8                      | 3.19                   | 4.21             | 3.73    | 3.27    |
| 12.0                            | 12.0                      | 13.9                      | 3.24                   | 4.27             | 3.70    | 3.25    |
| 12.1                            | 12.1                      | 14.0                      | 3.30                   | 4.33             | 3.67    | 3.22    |
| 12.2                            | 12.2                      | 14.1                      | 3.36                   | 4.40             | 3.64    | 3.20    |
| 12.3                            | 12.3                      | 14.2                      | 3.41                   | 4.46             | 3.60    | 3.18    |
| 12.4                            | 12.4                      | 14.3                      | 3.47                   | 4.53             | 3.57    | 3.16    |
| 12.5                            | 12.5                      | 14.4                      | 3.53                   | 4.59             | 3.54    | 3.13    |
| 12.6                            | 12.6                      | 14.5                      | 3.59                   | 4.66             | 3.51    | 3.11    |
| 12.7                            | 12.7                      | 14.6                      | 3.65                   | 4.73             | 3.48    | 3.09    |

#### NOTES

Cooling capacity is based on 27°CDB / 19°CWB (indoor temperature), 35°CDB (outdoor temperature).  
 Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).  
 The rated capacities above show the rise in indoor unit connection capacity when operating frequency is constant.  
 Values for changes in capacity are fixed after accounting for variations in operating frequency and should be used as reference values.



### 3 Combination table

**3**

| Total indoor unit capacity (kW) | RMX140JZ                  |                           |                        |                  |         |         |
|---------------------------------|---------------------------|---------------------------|------------------------|------------------|---------|---------|
|                                 | Capacity (kW)             |                           | Power consumption (kW) |                  | COP     |         |
|                                 | Cooling capacity (R-407C) | Heating capacity (R-407C) | Cooling (R-407C)       | Heating (R-407C) | Cooling | Heating |
| 12.8                            | 12.8                      | 14.7                      | 3.72                   | 4.79             | 3.44    | 3.07    |
| 12.9                            | 12.9                      | 14.8                      | 3.78                   | 4.86             | 3.41    | 3.05    |
| 13.0                            | 13.0                      | 14.9                      | 3.85                   | 4.93             | 3.38    | 3.03    |
| 13.1                            | 13.1                      | 15.0                      | 3.91                   | 5.00             | 3.35    | 3.00    |
| 13.2                            | 13.2                      | 15.1                      | 3.98                   | 5.07             | 3.32    | 2.98    |
| 13.3                            | 13.3                      | 15.2                      | 4.05                   | 5.14             | 3.28    | 2.96    |
| 13.4                            | 13.4                      | 15.3                      | 4.12                   | 5.22             | 3.25    | 2.94    |
| 13.5                            | 13.5                      | 15.4                      | 4.19                   | 5.29             | 3.22    | 2.92    |
| 13.6                            | 13.6                      | 15.6                      | 4.27                   | 5.36             | 3.19    | 2.90    |
| 13.7                            | 13.7                      | 15.7                      | 4.34                   | 5.44             | 3.15    | 2.88    |
| 13.8                            | 13.8                      | 15.8                      | 4.42                   | 5.51             | 3.12    | 2.86    |
| 13.9                            | 13.9                      | 15.9                      | 4.50                   | 5.59             | 3.09    | 2.84    |
| 14.0                            | 14.0                      | 16.0                      | 4.58                   | 5.66             | 3.06    | 2.82    |
| 14.1                            | 14.1                      | 16.1                      | 4.66                   | 5.74             | 3.03    | 2.80    |
| 14.2                            | 14.2                      | 16.2                      | 4.74                   | 5.82             | 2.99    | 2.78    |
| 14.3                            | 14.3                      | 16.3                      | 4.83                   | 5.89             | 2.96    | 2.76    |
| 14.4                            | 14.4                      | 16.4                      | 4.91                   | 5.97             | 2.93    | 2.74    |
| 14.5                            | 14.5                      | 16.5                      | 5.00                   | 6.05             | 2.90    | 2.73    |
| 14.6                            | 14.6                      | 16.6                      | 5.09                   | 6.13             | 2.87    | 2.71    |
| 14.7                            | 14.7                      | 16.7                      | 5.19                   | 6.17             | 2.83    | 2.71    |
| 14.8                            | 14.8                      | 16.8                      | 5.28                   | 6.17             | 2.80    | 2.73    |
| 14.9                            | 14.9                      | 16.9                      | 5.38                   | 6.16             | 2.77    | 2.74    |
| 15.0                            | 15.0                      | 16.9                      | 5.48                   | 6.15             | 2.74    | 2.74    |
| 15.1                            | 15.1                      | 16.9                      | 5.58                   | 6.14             | 2.71    | 2.75    |
| 15.2                            | 15.2                      | 16.9                      | 5.69                   | 6.13             | 2.67    | 2.76    |
| 15.3                            | 15.3                      | 16.9                      | 5.79                   | 6.12             | 2.64    | 2.76    |
| 15.4                            | 15.4                      | 16.9                      | 5.88                   | 6.11             | 2.62    | 2.77    |
| 15.5                            | 15.4                      | 16.9                      | 5.89                   | 6.10             | 2.62    | 2.77    |
| 15.6                            | 15.4                      | 16.9                      | 5.90                   | 6.09             | 2.62    | 2.78    |
| 15.7                            | 15.5                      | 16.9                      | 5.91                   | 6.08             | 2.62    | 2.79    |
| 15.8                            | 15.5                      | 17.0                      | 5.92                   | 6.07             | 2.61    | 2.79    |
| 15.9                            | 15.5                      | 17.0                      | 5.92                   | 6.06             | 2.61    | 2.80    |
| 16.0                            | 15.5                      | 17.0                      | 5.93                   | 6.05             | 2.61    | 2.81    |
| 16.1                            | 15.5                      | 17.0                      | 5.94                   | 6.04             | 2.61    | 2.81    |
| 16.2                            | 15.5                      | 17.0                      | 5.95                   | 6.03             | 2.61    | 2.82    |
| 16.3                            | 15.5                      | 17.0                      | 5.96                   | 6.02             | 2.60    | 2.83    |
| 16.4                            | 15.5                      | 17.0                      | 5.97                   | 6.00             | 2.60    | 2.83    |
| 16.5                            | 15.5                      | 17.0                      | 5.97                   | 5.99             | 2.60    | 2.84    |
| 16.6                            | 15.5                      | 17.0                      | 5.98                   | 5.98             | 2.60    | 2.85    |
| 16.7                            | 15.5                      | 17.1                      | 5.99                   | 5.97             | 2.60    | 2.85    |
| 16.8                            | 15.6                      | 17.1                      | 6.00                   | 5.96             | 2.59    | 2.86    |
| 16.9                            | 15.6                      | 17.1                      | 6.01                   | 5.95             | 2.59    | 2.87    |
| 17.0                            | 15.6                      | 17.1                      | 6.01                   | 5.94             | 2.59    | 2.88    |
| 17.1                            | 15.6                      | 17.1                      | 6.02                   | 5.93             | 2.59    | 2.88    |
| 17.2                            | 15.6                      | 17.1                      | 6.03                   | 5.92             | 2.59    | 2.89    |
| 17.3                            | 15.6                      | 17.1                      | 6.04                   | 5.91             | 2.58    | 2.90    |
| 17.4                            | 15.6                      | 17.1                      | 6.05                   | 5.90             | 2.58    | 2.90    |
| 17.5                            | 15.6                      | 17.1                      | 6.06                   | 5.89             | 2.58    | 2.91    |
| 17.6                            | 15.6                      | 17.2                      | 6.06                   | 5.88             | 2.58    | 2.92    |
| 17.7                            | 15.6                      | 17.2                      | 6.07                   | 5.87             | 2.58    | 2.92    |
| 17.8                            | 15.6                      | 17.2                      | 6.08                   | 5.86             | 2.57    | 2.93    |
| 17.9                            | 15.7                      | 17.2                      | 6.09                   | 5.85             | 2.57    | 2.94    |
| 18.0                            | 15.7                      | 17.2                      | 6.10                   | 5.84             | 2.57    | 2.95    |
| 18.1                            | 15.7                      | 17.2                      | 6.10                   | 5.83             | 2.57    | 2.95    |
| 18.2                            | 15.7                      | 17.2                      | 6.11                   | 5.82             | 2.57    | 2.96    |
| 18.3                            | 15.7                      | 17.2                      | 6.12                   | 5.81             | 2.56    | 2.97    |
| 18.4                            | 15.7                      | 17.2                      | 6.13                   | 5.80             | 2.56    | 2.97    |
| 18.5                            | 15.7                      | 17.3                      | 6.14                   | 5.79             | 2.56    | 2.98    |
| 18.6                            | 15.7                      | 17.3                      | 6.15                   | 5.78             | 2.56    | 2.99    |
| 18.7                            | 15.7                      | 17.3                      | 6.15                   | 5.77             | 2.56    | 3.00    |
| 18.8                            | 15.7                      | 17.3                      | 6.15                   | 5.76             | 2.56    | 3.00    |
| 18.9                            | 15.7                      | 17.3                      | 6.15                   | 5.75             | 2.56    | 3.01    |

#### NOTES

Cooling capacity is based on 27°CDB / 19°CWB (indoor temperature), 35°CDB (outdoor temperature).  
 Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).  
 The rated capacities above show the rise in indoor unit connection capacity when operating frequency is constant.  
 Values for changes in capacity are fixed after accounting for variations in operating frequency and should be used as reference values.



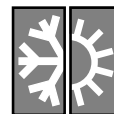
# 4 Capacity tables

**4**

Indoor/outdoor temperature compensation  
Cooling capacity (50Hz-230V)

| Combination % | Outdoor °CDB | Indoor air temp.: °CWB |      |       |      |       |      |       |      |       |      |       |      |       |      |
|---------------|--------------|------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|               |              | 14.0                   |      | 16.0  |      | 18.0  |      | 19.0  |      | 19.5  |      | 22.0  |      | 24.0  |      |
|               |              | TC                     | PI   | TC    | PI   | TC    | PI   | TC    | PI   | TC    | PI   | TC    | PI   | TC    | PI   |
| 130% (18.9kW) | 10           | 15.77                  | 3.68 | 16.47 | 3.71 | 17.36 | 3.74 | 17.80 | 3.75 | 18.03 | 3.77 | 19.14 | 3.80 | 20.03 | 3.83 |
|               | 12           | 15.55                  | 3.87 | 16.25 | 3.90 | 17.14 | 3.93 | 17.59 | 3.94 | 17.81 | 3.96 | 18.92 | 3.99 | 19.82 | 4.02 |
|               | 14           | 15.33                  | 4.06 | 16.03 | 4.09 | 16.92 | 4.12 | 17.37 | 4.13 | 17.59 | 4.15 | 18.71 | 4.18 | 19.60 | 4.21 |
|               | 16           | 15.12                  | 4.25 | 15.82 | 4.28 | 16.71 | 4.31 | 17.15 | 4.33 | 17.37 | 4.34 | 18.49 | 4.37 | 19.38 | 4.40 |
|               | 18           | 14.90                  | 4.44 | 15.60 | 4.47 | 16.49 | 4.50 | 16.93 | 4.52 | 17.16 | 4.53 | 18.27 | 4.56 | 19.16 | 4.59 |
|               | 20           | 14.68                  | 4.64 | 15.38 | 4.67 | 16.27 | 4.70 | 16.72 | 4.71 | 16.94 | 4.72 | 18.06 | 4.76 | 18.95 | 4.79 |
|               | 21           | 14.57                  | 4.73 | 15.27 | 4.76 | 16.16 | 4.79 | 16.61 | 4.81 | 16.83 | 4.82 | 17.95 | 4.85 | 18.84 | 4.88 |
|               | 23           | 14.35                  | 4.92 | 15.05 | 4.95 | 15.95 | 4.98 | 16.39 | 5.00 | 16.61 | 5.01 | 17.73 | 5.04 | 18.62 | 5.07 |
|               | 25           | 14.14                  | 5.12 | 14.84 | 5.15 | 15.73 | 5.18 | 16.17 | 5.19 | 16.40 | 5.20 | 17.51 | 5.23 | 18.40 | 5.26 |
|               | 27           | 13.92                  | 5.31 | 14.62 | 5.34 | 15.51 | 5.37 | 15.96 | 5.38 | 16.18 | 5.40 | 17.29 | 5.43 | 18.18 | 5.46 |
|               | 29           | 13.70                  | 5.50 | 14.40 | 5.53 | 15.29 | 5.56 | 15.74 | 5.57 | 15.96 | 5.59 | 17.08 | 5.62 | 17.97 | 5.65 |
|               | 31           | 13.49                  | 5.69 | 14.18 | 5.72 | 15.08 | 5.75 | 15.52 | 5.77 | 15.74 | 5.78 | 16.86 | 5.81 | 17.75 | 5.84 |
|               | 33           | 13.27                  | 5.88 | 13.97 | 5.91 | 14.86 | 5.94 | 15.30 | 5.96 | 15.53 | 5.97 | 16.64 | 6.00 | 17.53 | 6.03 |
|               | 35           | 13.05                  | 6.07 | 13.75 | 6.10 | 14.64 | 6.13 | 15.10 | 6.15 | 15.31 | 6.16 | 16.38 | 6.15 | 17.25 | 6.15 |
|               | 37           | 12.71                  | 6.15 | 13.38 | 6.15 | 14.24 | 6.15 | 14.68 | 6.15 | 14.88 | 6.15 | 15.97 | 6.15 | 16.83 | 6.15 |
|               | 39           | 12.19                  | 6.03 | 12.86 | 6.03 | 13.72 | 6.03 | 14.15 | 6.03 | 14.35 | 6.03 | 15.44 | 6.03 | 16.30 | 6.03 |
| 120% (17.5kW) | 41           | 11.45                  | 5.70 | 12.12 | 5.70 | 12.98 | 5.70 | 13.40 | 5.70 | 13.62 | 5.70 | 14.70 | 5.70 | 15.56 | 5.70 |
|               | 43           | 10.72                  | 5.38 | 11.39 | 5.38 | 12.25 | 5.38 | 12.68 | 5.38 | 12.89 | 5.38 | 13.97 | 5.38 | 14.84 | 5.38 |
|               | 46           | 9.62                   | 4.90 | 10.29 | 4.90 | 11.16 | 4.90 | 11.59 | 4.90 | 11.79 | 4.90 | 12.88 | 4.90 | 13.74 | 4.90 |
|               | 10           | 15.77                  | 3.62 | 16.47 | 3.65 | 17.36 | 3.68 | 17.80 | 3.69 | 18.03 | 3.70 | 19.14 | 3.73 | 20.03 | 3.76 |
|               | 12           | 15.55                  | 3.81 | 16.25 | 3.83 | 17.14 | 3.86 | 17.59 | 3.88 | 17.81 | 3.89 | 18.92 | 3.92 | 19.82 | 3.95 |
|               | 14           | 15.33                  | 3.99 | 16.03 | 4.02 | 16.92 | 4.05 | 17.37 | 4.07 | 17.59 | 4.08 | 18.71 | 4.11 | 19.60 | 4.14 |
|               | 16           | 15.12                  | 4.18 | 15.82 | 4.21 | 16.71 | 4.24 | 17.15 | 4.26 | 17.37 | 4.27 | 18.49 | 4.30 | 19.38 | 4.33 |
|               | 18           | 14.90                  | 4.37 | 15.60 | 4.40 | 16.49 | 4.43 | 16.93 | 4.45 | 17.16 | 4.46 | 18.27 | 4.49 | 19.16 | 4.52 |
|               | 20           | 14.68                  | 4.56 | 15.38 | 4.59 | 16.27 | 4.62 | 16.72 | 4.63 | 16.94 | 4.65 | 18.06 | 4.68 | 18.95 | 4.71 |
|               | 21           | 14.57                  | 4.65 | 15.27 | 4.68 | 16.16 | 4.71 | 16.61 | 4.73 | 16.83 | 4.74 | 17.95 | 4.77 | 18.84 | 4.80 |
|               | 23           | 14.35                  | 4.84 | 15.05 | 4.87 | 15.95 | 4.90 | 16.39 | 4.92 | 16.61 | 4.93 | 17.73 | 4.96 | 18.62 | 4.99 |
|               | 25           | 14.14                  | 5.03 | 14.84 | 5.06 | 15.73 | 5.09 | 16.17 | 5.11 | 16.40 | 5.12 | 17.51 | 5.15 | 18.40 | 5.18 |
|               | 27           | 13.92                  | 5.22 | 14.62 | 5.25 | 15.51 | 5.28 | 15.96 | 5.29 | 16.18 | 5.31 | 17.29 | 5.34 | 18.18 | 5.37 |
|               | 29           | 13.70                  | 5.41 | 14.40 | 5.44 | 15.29 | 5.47 | 15.74 | 5.48 | 15.96 | 5.50 | 17.08 | 5.53 | 17.97 | 5.56 |
|               | 31           | 13.49                  | 5.60 | 14.18 | 5.63 | 15.08 | 5.66 | 15.52 | 5.67 | 15.74 | 5.69 | 16.86 | 5.72 | 17.75 | 5.75 |
|               | 33           | 13.27                  | 5.79 | 13.97 | 5.82 | 14.86 | 5.85 | 15.30 | 5.86 | 15.53 | 5.88 | 16.64 | 5.90 | 17.53 | 5.93 |
|               | 35           | 13.05                  | 5.98 | 13.75 | 6.01 | 14.64 | 6.03 | 15.10 | 6.05 | 15.31 | 6.06 | 16.42 | 6.09 | 17.32 | 6.12 |
| 110% (16.0kW) | 37           | 12.82                  | 6.15 | 13.49 | 6.15 | 14.35 | 6.15 | 14.78 | 6.15 | 14.99 | 6.15 | 16.08 | 6.15 | 16.94 | 6.15 |
|               | 39           | 12.30                  | 6.03 | 12.97 | 6.03 | 13.83 | 6.03 | 14.25 | 6.03 | 14.46 | 6.03 | 15.55 | 6.03 | 16.41 | 6.03 |
|               | 41           | 11.56                  | 5.70 | 12.23 | 5.70 | 13.09 | 5.70 | 13.51 | 5.70 | 13.73 | 5.70 | 14.81 | 5.70 | 15.67 | 5.70 |
|               | 43           | 10.83                  | 5.38 | 11.50 | 5.38 | 12.36 | 5.38 | 12.80 | 5.38 | 13.00 | 5.38 | 14.08 | 5.38 | 14.95 | 5.38 |
|               | 46           | 9.74                   | 4.90 | 10.41 | 4.90 | 11.28 | 4.90 | 11.70 | 4.90 | 11.91 | 4.90 | 13.00 | 4.90 | 13.86 | 4.90 |
|               | 10           | 15.66                  | 3.54 | 16.36 | 3.57 | 17.24 | 3.60 | 17.69 | 3.62 | 17.91 | 3.63 | 19.02 | 3.66 | 19.90 | 3.69 |
|               | 12           | 15.45                  | 3.73 | 16.14 | 3.76 | 17.03 | 3.79 | 17.47 | 3.80 | 17.69 | 3.82 | 18.80 | 3.85 | 19.68 | 3.87 |
|               | 14           | 15.23                  | 3.91 | 15.93 | 3.94 | 16.81 | 3.97 | 17.25 | 3.99 | 17.48 | 4.00 | 18.58 | 4.03 | 19.47 | 4.06 |
|               | 16           | 15.02                  | 4.10 | 15.71 | 4.13 | 16.60 | 4.16 | 17.04 | 4.17 | 17.26 | 4.19 | 18.37 | 4.22 | 19.25 | 4.24 |
|               | 18           | 14.80                  | 4.29 | 15.49 | 4.31 | 16.38 | 4.34 | 16.82 | 4.36 | 17.04 | 4.37 | 18.15 | 4.40 | 19.04 | 4.43 |
|               | 20           | 14.58                  | 4.47 | 15.28 | 4.50 | 16.16 | 4.53 | 16.61 | 4.54 | 16.83 | 4.56 | 17.94 | 4.59 | 18.82 | 4.61 |
|               | 21           | 14.48                  | 4.56 | 15.17 | 4.59 | 16.06 | 4.62 | 16.50 | 4.63 | 16.72 | 4.65 | 17.83 | 4.68 | 18.71 | 4.71 |
|               | 23           | 14.26                  | 4.75 | 14.95 | 4.78 | 15.84 | 4.81 | 16.28 | 4.82 | 16.50 | 4.83 | 17.61 | 4.86 | 18.50 | 4.89 |
|               | 25           | 14.04                  | 4.93 | 14.74 | 4.96 | 15.62 | 4.99 | 16.07 | 5.00 | 16.29 | 5.02 | 17.40 | 5.05 | 18.28 | 5.08 |
|               | 27           | 13.83                  | 5.12 | 14.52 | 5.15 | 15.41 | 5.18 | 15.85 | 5.19 | 16.07 | 5.20 | 17.18 | 5.23 | 18.06 | 5.26 |
|               | 29           | 13.61                  | 5.30 | 14.31 | 5.33 | 15.19 | 5.36 | 15.63 | 5.37 | 15.86 | 5.39 | 16.96 | 5.42 | 17.85 | 5.45 |
|               | 31           | 13.40                  | 5.49 | 14.09 | 5.52 | 14.98 | 5.55 | 15.42 | 5.56 | 15.64 | 5.57 | 16.75 | 5.60 | 17.63 | 5.63 |
|               | 33           | 13.18                  | 5.67 | 13.87 | 5.70 | 14.76 | 5.73 | 15.20 | 5.74 | 15.42 | 5.76 | 16.53 | 5.79 | 17.42 | 5.82 |
|               | 35           | 12.96                  | 5.86 | 13.66 | 5.89 | 14.54 | 5.92 | 15.00 | 5.93 | 15.21 | 5.94 | 16.32 | 5.97 | 17.20 | 6.00 |
|               | 37           | 12.75                  | 6.04 | 13.44 | 6.07 | 14.33 | 6.10 | 14.77 | 6.11 | 14.99 | 6.13 | 16.09 | 6.15 | 16.94 | 6.15 |
|               | 39           | 12.33                  | 6.03 | 13.00 | 6.03 | 13.85 | 6.03 | 14.28 | 6.03 | 14.50 | 6.03 | 15.57 | 6.03 | 16.43 | 6.03 |
|               | 41           | 11.61                  | 5.70 | 12.27 | 5.70 | 13.13 | 5.70 | 13.56 | 5.70 | 13.76 | 5.70 | 14.84 | 5.70 | 15.69 | 5.70 |
|               | 43           | 10.88                  | 5.38 | 11.54 | 5.38 | 12.40 | 5.38 | 12.83 | 5.38 | 13.04 | 5.38 | 14.12 | 5.38 | 14.98 | 5.38 |
|               | 46           | 9.80                   | 4.90 | 10.47 | 4.90 | 11.33 | 4.90 | 11.75 | 4.90 | 11.96 | 4.90 | 13.04 | 4.90 | 13.89 | 4.90 |

TC: Total capacity (kW)  
PI: Power input (kW)



# 4 Capacity tables

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| Combination % | Outdoor °CDB | Indoor air temp.: °CWB |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|--------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               |              | 14.0                   |       | 16.0  |       | 18.0  |       | 19.0  |       | 19.5  |       | 22.0  |       | 24.0  |       |
|               |              | TC kW                  | PI kW | TC kW | PI kW | TC kW | PI kW | TC kW | PI kW | TC kW | PI kW | TC kW | PI kW | TC kW | PI kW |
| 100% (14.5kW) | 10           | 15.14                  | 2.99  | 15.81 | 3.01  | 16.67 | 3.04  | 17.10 | 3.05  | 17.31 | 3.06  | 18.38 | 3.09  | 19.24 | 3.11  |
|               | 12           | 14.93                  | 3.15  | 15.60 | 3.17  | 16.46 | 3.19  | 16.89 | 3.21  | 17.10 | 3.22  | 18.17 | 3.24  | 19.03 | 3.27  |
|               | 14           | 14.72                  | 3.30  | 15.40 | 3.33  | 16.25 | 3.35  | 16.68 | 3.36  | 16.89 | 3.37  | 17.96 | 3.40  | 18.82 | 3.42  |
|               | 16           | 14.52                  | 3.46  | 15.19 | 3.48  | 16.04 | 3.51  | 16.47 | 3.52  | 16.68 | 3.53  | 17.76 | 3.55  | 18.61 | 3.58  |
|               | 18           | 14.31                  | 3.61  | 14.98 | 3.64  | 15.83 | 3.66  | 16.26 | 3.67  | 16.48 | 3.69  | 17.55 | 3.71  | 18.40 | 3.73  |
|               | 20           | 14.10                  | 3.77  | 14.77 | 3.79  | 15.63 | 3.82  | 16.05 | 3.83  | 16.27 | 3.84  | 17.34 | 3.87  | 18.19 | 3.89  |
|               | 21           | 13.99                  | 3.85  | 14.67 | 3.87  | 15.52 | 3.90  | 15.95 | 3.91  | 16.16 | 3.92  | 17.23 | 3.94  | 18.09 | 3.97  |
|               | 23           | 13.78                  | 4.00  | 14.46 | 4.03  | 15.31 | 4.05  | 15.74 | 4.06  | 15.95 | 4.08  | 17.02 | 4.10  | 17.88 | 4.12  |
|               | 25           | 13.58                  | 4.16  | 14.25 | 4.18  | 15.10 | 4.21  | 15.53 | 4.22  | 15.74 | 4.23  | 16.82 | 4.26  | 17.67 | 4.28  |
|               | 27           | 13.37                  | 4.32  | 14.04 | 4.34  | 14.89 | 4.36  | 15.32 | 4.38  | 15.54 | 4.39  | 16.61 | 4.41  | 17.46 | 4.44  |
|               | 29           | 13.16                  | 4.47  | 13.83 | 4.50  | 14.69 | 4.52  | 15.11 | 4.53  | 15.33 | 4.54  | 16.40 | 4.57  | 17.25 | 4.59  |
|               | 31           | 12.95                  | 4.63  | 13.62 | 4.65  | 14.48 | 4.68  | 14.90 | 4.69  | 15.12 | 4.70  | 16.19 | 4.72  | 17.04 | 4.75  |
|               | 33           | 12.74                  | 4.78  | 13.41 | 4.81  | 14.27 | 4.83  | 14.70 | 4.84  | 14.91 | 4.86  | 15.98 | 4.88  | 16.84 | 4.90  |
|               | 35           | 12.53                  | 4.94  | 13.20 | 4.96  | 14.06 | 4.99  | 14.50 | 5.00  | 14.70 | 5.01  | 15.77 | 5.04  | 16.63 | 5.06  |
|               | 37           | 12.32                  | 5.10  | 12.99 | 5.12  | 13.85 | 5.14  | 14.28 | 5.16  | 14.49 | 5.17  | 15.56 | 5.19  | 16.42 | 5.22  |
|               | 39           | 12.11                  | 5.25  | 12.79 | 5.28  | 13.64 | 5.30  | 14.07 | 5.31  | 14.28 | 5.32  | 15.35 | 5.35  | 16.21 | 5.37  |
|               | 41           | 11.91                  | 5.41  | 12.58 | 5.43  | 13.43 | 5.46  | 13.86 | 5.47  | 14.07 | 5.48  | 15.15 | 5.50  | 16.00 | 5.53  |
|               | 43           | 11.52                  | 5.38  | 12.16 | 5.38  | 12.99 | 5.38  | 13.41 | 5.38  | 13.61 | 5.38  | 14.66 | 5.38  | 15.49 | 5.38  |
|               | 46           | 10.48                  | 4.90  | 11.14 | 4.90  | 11.96 | 4.90  | 12.38 | 4.90  | 12.58 | 4.90  | 13.63 | 4.90  | 14.46 | 4.90  |
| 90% (13.1kW)  | 10           | 13.68                  | 2.34  | 14.29 | 2.36  | 15.06 | 2.38  | 15.45 | 2.38  | 15.64 | 2.39  | 16.61 | 2.41  | 17.38 | 2.43  |
|               | 12           | 13.49                  | 2.46  | 14.10 | 2.48  | 14.87 | 2.50  | 15.26 | 2.51  | 15.45 | 2.52  | 16.42 | 2.54  | 17.19 | 2.55  |
|               | 14           | 13.30                  | 2.58  | 13.91 | 2.60  | 14.68 | 2.62  | 15.07 | 2.63  | 15.26 | 2.64  | 16.23 | 2.66  | 17.00 | 2.68  |
|               | 16           | 13.11                  | 2.70  | 13.72 | 2.72  | 14.49 | 2.74  | 14.88 | 2.75  | 15.07 | 2.76  | 16.04 | 2.78  | 16.81 | 2.80  |
|               | 18           | 12.93                  | 2.83  | 13.53 | 2.84  | 14.31 | 2.86  | 14.69 | 2.87  | 14.88 | 2.88  | 15.85 | 2.90  | 16.63 | 2.92  |
|               | 20           | 12.74                  | 2.95  | 13.34 | 2.97  | 14.12 | 2.99  | 14.50 | 2.99  | 14.70 | 3.00  | 15.66 | 3.02  | 16.44 | 3.04  |
|               | 21           | 12.64                  | 3.01  | 13.25 | 3.03  | 14.02 | 3.05  | 14.41 | 3.06  | 14.60 | 3.07  | 15.57 | 3.08  | 16.34 | 3.10  |
|               | 23           | 12.45                  | 3.13  | 13.06 | 3.15  | 13.83 | 3.17  | 14.22 | 3.18  | 14.41 | 3.19  | 15.38 | 3.21  | 16.15 | 3.23  |
|               | 25           | 12.27                  | 3.25  | 12.87 | 3.27  | 13.64 | 3.29  | 14.03 | 3.30  | 14.22 | 3.31  | 15.19 | 3.33  | 15.96 | 3.35  |
|               | 27           | 12.08                  | 3.37  | 12.68 | 3.39  | 13.46 | 3.41  | 13.84 | 3.42  | 14.04 | 3.43  | 15.00 | 3.45  | 15.78 | 3.47  |
|               | 29           | 11.89                  | 3.50  | 12.49 | 3.52  | 13.27 | 3.53  | 13.65 | 3.54  | 13.85 | 3.55  | 14.81 | 3.57  | 15.59 | 3.59  |
|               | 31           | 11.70                  | 3.62  | 12.31 | 3.64  | 13.08 | 3.66  | 13.47 | 3.67  | 13.66 | 3.67  | 14.63 | 3.69  | 15.40 | 3.71  |
|               | 33           | 11.51                  | 3.74  | 12.12 | 3.76  | 12.89 | 3.78  | 13.28 | 3.79  | 13.47 | 3.80  | 14.44 | 3.82  | 15.21 | 3.84  |
|               | 35           | 11.32                  | 3.86  | 11.93 | 3.88  | 12.70 | 3.90  | 13.10 | 3.91  | 13.28 | 3.92  | 14.25 | 3.94  | 15.02 | 3.96  |
|               | 37           | 11.13                  | 3.98  | 11.74 | 4.00  | 12.51 | 4.02  | 12.90 | 4.03  | 13.09 | 4.04  | 14.06 | 4.06  | 14.83 | 4.08  |
|               | 39           | 10.94                  | 4.11  | 11.55 | 4.13  | 12.32 | 4.14  | 12.71 | 4.15  | 12.90 | 4.16  | 13.87 | 4.18  | 14.64 | 4.20  |
|               | 41           | 10.76                  | 4.23  | 11.36 | 4.25  | 12.14 | 4.27  | 12.52 | 4.28  | 12.72 | 4.28  | 13.68 | 4.30  | 14.46 | 4.32  |
|               | 43           | 10.57                  | 4.35  | 11.17 | 4.37  | 11.95 | 4.39  | 12.33 | 4.40  | 12.53 | 4.41  | 13.49 | 4.43  | 14.27 | 4.45  |
|               | 46           | 10.28                  | 4.53  | 10.89 | 4.55  | 11.66 | 4.57  | 12.05 | 4.58  | 12.24 | 4.59  | 13.21 | 4.61  | 13.98 | 4.63  |
| 80% (11.6kW)  | 10           | 12.11                  | 1.81  | 12.65 | 1.83  | 13.34 | 1.84  | 13.68 | 1.85  | 13.85 | 1.86  | 14.71 | 1.87  | 15.39 | 1.88  |
|               | 12           | 11.95                  | 1.91  | 12.48 | 1.92  | 13.17 | 1.94  | 13.51 | 1.94  | 13.68 | 1.95  | 14.54 | 1.96  | 15.22 | 1.98  |
|               | 14           | 11.78                  | 2.00  | 12.32 | 2.02  | 13.00 | 2.03  | 13.34 | 2.04  | 13.51 | 2.04  | 14.37 | 2.06  | 15.06 | 2.07  |
|               | 16           | 11.61                  | 2.09  | 12.15 | 2.11  | 12.83 | 2.12  | 13.18 | 2.13  | 13.35 | 2.14  | 14.20 | 2.15  | 14.89 | 2.17  |
|               | 18           | 11.45                  | 2.19  | 11.98 | 2.20  | 12.67 | 2.22  | 13.01 | 2.23  | 13.18 | 2.23  | 14.04 | 2.25  | 14.72 | 2.26  |
|               | 20           | 11.28                  | 2.28  | 11.82 | 2.30  | 12.50 | 2.31  | 12.84 | 2.32  | 13.01 | 2.33  | 13.87 | 2.34  | 14.55 | 2.36  |
|               | 21           | 11.19                  | 2.33  | 11.73 | 2.35  | 12.42 | 2.36  | 12.76 | 2.37  | 12.93 | 2.38  | 13.79 | 2.39  | 14.47 | 2.40  |
|               | 23           | 11.03                  | 2.43  | 11.57 | 2.44  | 12.25 | 2.46  | 12.59 | 2.46  | 12.76 | 2.47  | 13.62 | 2.48  | 14.30 | 2.50  |
|               | 25           | 10.86                  | 2.52  | 11.40 | 2.54  | 12.08 | 2.55  | 12.42 | 2.56  | 12.60 | 2.56  | 13.45 | 2.58  | 14.14 | 2.59  |
|               | 27           | 10.69                  | 2.61  | 11.23 | 2.63  | 11.92 | 2.64  | 12.26 | 2.65  | 12.43 | 2.66  | 13.29 | 2.67  | 13.97 | 2.69  |
|               | 29           | 10.53                  | 2.71  | 11.06 | 2.72  | 11.75 | 2.74  | 12.09 | 2.75  | 12.26 | 2.75  | 13.12 | 2.77  | 13.80 | 2.78  |
|               | 31           | 10.36                  | 2.80  | 10.90 | 2.82  | 11.58 | 2.83  | 11.92 | 2.84  | 12.09 | 2.85  | 12.95 | 2.86  | 13.64 | 2.88  |
|               | 33           | 10.19                  | 2.90  | 10.73 | 2.91  | 11.41 | 2.93  | 11.76 | 2.94  | 11.93 | 2.94  | 12.78 | 2.96  | 13.47 | 2.97  |
|               | 35           | 10.03                  | 2.99  | 10.56 | 3.01  | 11.25 | 3.02  | 11.60 | 3.03  | 11.76 | 3.04  | 12.62 | 3.05  | 13.30 | 3.07  |
|               | 37           | 9.86                   | 3.09  | 10.40 | 3.10  | 11.08 | 3.12  | 11.42 | 3.12  | 11.59 | 3.13  | 12.45 | 3.15  | 13.13 | 3.16  |
|               | 39           | 9.69                   | 3.18  | 10.23 | 3.20  | 10.91 | 3.21  | 11.26 | 3.22  | 11.43 | 3.23  | 12.28 | 3.24  | 12.97 | 3.26  |
|               | 41           | 9.52                   | 3.28  | 10.06 | 3.29  | 10.75 | 3.31  | 11.09 | 3.31  | 11.26 | 3.32  | 12.12 | 3.34  | 12.80 | 3.35  |
|               | 43           | 9.36                   | 3.37  | 9.89  | 3.39  | 10.58 | 3.40  | 10.92 | 3.41  | 11.09 | 3.42  | 11.95 | 3.43  | 12.63 | 3.44  |
|               | 46           | 9.11                   | 3.51  | 9.64  | 3.53  | 10.33 | 3.54  | 10.67 | 3.55  | 10.84 | 3.56  | 11.70 | 3.57  | 12.38 | 3.59  |

TC: Total capacity (kW)  
PI: Power input (kW)

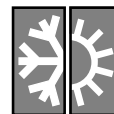


# 4 Capacity tables

4

| Combination % | Outdoor °CDB | Indoor air temp.: °CWB |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|--------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               |              | 14.0                   |       | 16.0  |       | 18.0  |       | 19.0  |       | 19.5  |       | 22.0  |       | 24.0  |       |
|               |              | TC kW                  | PI kW | TC kW | PI kW | TC kW | PI kW | TC kW | PI kW | TC kW | PI kW | TC kW | PI kW | TC kW | PI kW |
| 70% (10.2kW)  | 10           | 10.65                  | 1.42  | 11.12 | 1.43  | 11.73 | 1.45  | 12.03 | 1.45  | 12.18 | 1.46  | 12.93 | 1.47  | 13.53 | 1.48  |
|               | 12           | 10.50                  | 1.50  | 10.98 | 1.51  | 11.58 | 1.52  | 11.88 | 1.53  | 12.03 | 1.53  | 12.78 | 1.54  | 13.39 | 1.55  |
|               | 14           | 10.36                  | 1.57  | 10.83 | 1.58  | 11.43 | 1.59  | 11.73 | 1.60  | 11.88 | 1.61  | 12.64 | 1.62  | 13.24 | 1.63  |
|               | 16           | 10.21                  | 1.65  | 10.68 | 1.66  | 11.29 | 1.67  | 11.59 | 1.67  | 11.74 | 1.68  | 12.49 | 1.69  | 13.09 | 1.70  |
|               | 18           | 10.06                  | 1.72  | 10.54 | 1.73  | 11.14 | 1.74  | 11.44 | 1.75  | 11.59 | 1.75  | 12.34 | 1.77  | 12.94 | 1.78  |
|               | 20           | 9.92                   | 1.79  | 10.39 | 1.81  | 10.99 | 1.82  | 11.29 | 1.82  | 11.44 | 1.83  | 12.20 | 1.84  | 12.80 | 1.85  |
|               | 21           | 9.84                   | 1.83  | 10.32 | 1.84  | 10.92 | 1.85  | 11.22 | 1.86  | 11.37 | 1.87  | 12.12 | 1.88  | 12.72 | 1.89  |
|               | 23           | 9.70                   | 1.91  | 10.17 | 1.92  | 10.77 | 1.93  | 11.07 | 1.93  | 11.22 | 1.94  | 11.98 | 1.95  | 12.58 | 1.96  |
|               | 25           | 9.55                   | 1.98  | 10.02 | 1.99  | 10.62 | 2.00  | 10.93 | 2.01  | 11.08 | 2.01  | 11.83 | 2.03  | 12.43 | 2.04  |
|               | 27           | 9.40                   | 2.05  | 9.88  | 2.07  | 10.48 | 2.08  | 10.78 | 2.08  | 10.93 | 2.09  | 11.68 | 2.10  | 12.28 | 2.11  |
|               | 29           | 9.26                   | 2.13  | 9.73  | 2.14  | 10.33 | 2.15  | 10.63 | 2.16  | 10.78 | 2.16  | 11.54 | 2.17  | 12.14 | 2.19  |
|               | 31           | 9.11                   | 2.20  | 9.58  | 2.21  | 10.18 | 2.23  | 10.48 | 2.23  | 10.64 | 2.24  | 11.39 | 2.25  | 11.99 | 2.26  |
|               | 33           | 8.96                   | 2.28  | 9.43  | 2.29  | 10.04 | 2.30  | 10.34 | 2.31  | 10.49 | 2.31  | 11.24 | 2.32  | 11.84 | 2.33  |
|               | 35           | 8.82                   | 2.35  | 9.29  | 2.36  | 9.89  | 2.37  | 10.20 | 2.38  | 10.34 | 2.39  | 11.09 | 2.40  | 11.70 | 2.41  |
|               | 37           | 8.67                   | 2.43  | 9.14  | 2.44  | 9.74  | 2.45  | 10.04 | 2.45  | 10.19 | 2.46  | 10.95 | 2.47  | 11.55 | 2.48  |
|               | 39           | 8.52                   | 2.50  | 8.99  | 2.51  | 9.60  | 2.52  | 9.90  | 2.53  | 10.05 | 2.53  | 10.80 | 2.55  | 11.40 | 2.56  |
|               | 41           | 8.37                   | 2.57  | 8.85  | 2.59  | 9.45  | 2.60  | 9.75  | 2.60  | 9.90  | 2.61  | 10.65 | 2.62  | 11.26 | 2.63  |
|               | 43           | 8.23                   | 2.65  | 8.70  | 2.66  | 9.30  | 2.67  | 9.60  | 2.68  | 9.75  | 2.68  | 10.51 | 2.69  | 11.11 | 2.71  |
|               | 46           | 8.01                   | 2.76  | 8.48  | 2.77  | 9.08  | 2.78  | 9.38  | 2.79  | 9.53  | 2.79  | 10.29 | 2.81  | 10.89 | 2.82  |
| 60% (8.7kW)   | 10           | 9.09                   | 1.09  | 9.49  | 1.10  | 10.00 | 1.11  | 10.26 | 1.12  | 10.39 | 1.12  | 11.03 | 1.13  | 11.54 | 1.14  |
|               | 12           | 8.96                   | 1.15  | 9.36  | 1.16  | 9.88  | 1.17  | 10.13 | 1.17  | 10.26 | 1.18  | 10.90 | 1.19  | 11.42 | 1.20  |
|               | 14           | 8.83                   | 1.21  | 9.24  | 1.22  | 9.75  | 1.23  | 10.01 | 1.23  | 10.14 | 1.23  | 10.78 | 1.24  | 11.29 | 1.25  |
|               | 16           | 8.71                   | 1.27  | 9.11  | 1.27  | 9.63  | 1.28  | 9.88  | 1.29  | 10.01 | 1.29  | 10.65 | 1.30  | 11.17 | 1.31  |
|               | 18           | 8.58                   | 1.32  | 8.99  | 1.33  | 9.50  | 1.34  | 9.76  | 1.34  | 9.89  | 1.35  | 10.53 | 1.36  | 11.04 | 1.37  |
|               | 20           | 8.46                   | 1.38  | 8.86  | 1.39  | 9.38  | 1.40  | 9.63  | 1.40  | 9.76  | 1.41  | 10.40 | 1.41  | 10.92 | 1.42  |
|               | 21           | 8.40                   | 1.41  | 8.80  | 1.42  | 9.31  | 1.43  | 9.57  | 1.43  | 9.70  | 1.43  | 10.34 | 1.44  | 10.85 | 1.45  |
|               | 23           | 8.27                   | 1.47  | 8.67  | 1.47  | 9.19  | 1.48  | 9.44  | 1.49  | 9.57  | 1.49  | 10.21 | 1.50  | 10.73 | 1.51  |
|               | 25           | 8.15                   | 1.52  | 8.55  | 1.53  | 9.06  | 1.54  | 9.32  | 1.54  | 9.45  | 1.55  | 10.09 | 1.56  | 10.60 | 1.57  |
|               | 27           | 8.02                   | 1.58  | 8.42  | 1.59  | 8.94  | 1.60  | 9.19  | 1.60  | 9.32  | 1.61  | 9.96  | 1.61  | 10.48 | 1.62  |
|               | 29           | 7.89                   | 1.64  | 8.30  | 1.65  | 8.81  | 1.65  | 9.07  | 1.66  | 9.20  | 1.66  | 9.84  | 1.67  | 10.35 | 1.68  |
|               | 31           | 7.77                   | 1.69  | 8.17  | 1.70  | 8.69  | 1.71  | 8.94  | 1.72  | 9.07  | 1.72  | 9.71  | 1.73  | 10.23 | 1.74  |
|               | 33           | 7.64                   | 1.75  | 8.05  | 1.76  | 8.56  | 1.77  | 8.82  | 1.77  | 8.95  | 1.78  | 9.59  | 1.79  | 10.10 | 1.79  |
|               | 35           | 7.52                   | 1.81  | 7.92  | 1.82  | 8.44  | 1.83  | 8.70  | 1.83  | 8.82  | 1.83  | 9.46  | 1.84  | 9.98  | 1.85  |
|               | 37           | 7.39                   | 1.86  | 7.80  | 1.87  | 8.31  | 1.88  | 8.57  | 1.89  | 8.70  | 1.89  | 9.34  | 1.90  | 9.85  | 1.91  |
|               | 39           | 7.27                   | 1.92  | 7.67  | 1.93  | 8.18  | 1.94  | 8.44  | 1.94  | 8.57  | 1.95  | 9.21  | 1.96  | 9.73  | 1.97  |
|               | 41           | 7.14                   | 1.98  | 7.55  | 1.99  | 8.06  | 2.00  | 8.32  | 2.00  | 8.44  | 2.01  | 9.09  | 2.01  | 9.60  | 2.02  |
|               | 43           | 7.02                   | 2.04  | 7.42  | 2.04  | 7.93  | 2.05  | 8.19  | 2.06  | 8.32  | 2.06  | 8.96  | 2.07  | 9.48  | 2.08  |
|               | 46           | 6.83                   | 2.12  | 7.23  | 2.13  | 7.75  | 2.14  | 8.00  | 2.14  | 8.13  | 2.15  | 8.77  | 2.16  | 9.29  | 2.17  |
| 51.7% (7.5kW) | 10           | 7.83                   | 0.87  | 8.18  | 0.88  | 8.62  | 0.89  | 8.84  | 0.89  | 8.95  | 0.89  | 9.51  | 0.90  | 9.95  | 0.91  |
|               | 12           | 7.72                   | 0.92  | 8.07  | 0.93  | 8.51  | 0.93  | 8.74  | 0.94  | 8.85  | 0.94  | 9.40  | 0.95  | 9.84  | 0.95  |
|               | 14           | 7.62                   | 0.96  | 7.96  | 0.97  | 8.41  | 0.98  | 8.63  | 0.98  | 8.74  | 0.99  | 9.29  | 0.99  | 9.73  | 1.00  |
|               | 16           | 7.51                   | 1.01  | 7.86  | 1.02  | 8.30  | 1.02  | 8.52  | 1.03  | 8.63  | 1.03  | 9.18  | 1.04  | 9.63  | 1.04  |
|               | 18           | 7.40                   | 1.05  | 7.75  | 1.06  | 8.19  | 1.07  | 8.41  | 1.07  | 8.52  | 1.08  | 9.08  | 1.08  | 9.52  | 1.09  |
|               | 20           | 7.29                   | 1.10  | 7.64  | 1.11  | 8.08  | 1.11  | 8.30  | 1.12  | 8.41  | 1.12  | 8.97  | 1.13  | 9.41  | 1.14  |
|               | 21           | 7.24                   | 1.12  | 7.59  | 1.13  | 8.03  | 1.14  | 8.25  | 1.14  | 8.36  | 1.14  | 8.91  | 1.15  | 9.36  | 1.16  |
|               | 23           | 7.13                   | 1.17  | 7.48  | 1.18  | 7.92  | 1.18  | 8.14  | 1.19  | 8.25  | 1.19  | 8.81  | 1.20  | 9.25  | 1.20  |
|               | 25           | 7.02                   | 1.21  | 7.37  | 1.22  | 7.81  | 1.23  | 8.03  | 1.23  | 8.14  | 1.24  | 8.70  | 1.24  | 9.14  | 1.25  |
|               | 27           | 6.91                   | 1.26  | 7.26  | 1.27  | 7.70  | 1.27  | 7.93  | 1.28  | 8.04  | 1.28  | 8.59  | 1.29  | 9.03  | 1.30  |
|               | 29           | 6.81                   | 1.31  | 7.15  | 1.31  | 7.60  | 1.32  | 7.82  | 1.32  | 7.93  | 1.33  | 8.48  | 1.33  | 8.92  | 1.34  |
|               | 31           | 6.70                   | 1.35  | 7.05  | 1.36  | 7.49  | 1.37  | 7.71  | 1.37  | 7.82  | 1.37  | 8.37  | 1.38  | 8.82  | 1.39  |
|               | 33           | 6.59                   | 1.40  | 6.94  | 1.40  | 7.38  | 1.41  | 7.60  | 1.41  | 7.71  | 1.42  | 8.27  | 1.42  | 8.71  | 1.43  |
|               | 35           | 6.48                   | 1.44  | 6.83  | 1.45  | 7.27  | 1.46  | 7.50  | 1.46  | 7.60  | 1.46  | 8.16  | 1.47  | 8.60  | 1.48  |
|               | 37           | 6.37                   | 1.49  | 6.72  | 1.49  | 7.16  | 1.50  | 7.39  | 1.51  | 7.50  | 1.51  | 8.05  | 1.52  | 8.49  | 1.52  |
|               | 39           | 6.27                   | 1.53  | 6.61  | 1.54  | 7.06  | 1.55  | 7.28  | 1.55  | 7.39  | 1.55  | 7.94  | 1.56  | 8.38  | 1.57  |
|               | 41           | 6.16                   | 1.58  | 6.51  | 1.59  | 6.95  | 1.59  | 7.17  | 1.60  | 7.28  | 1.60  | 7.83  | 1.61  | 8.28  | 1.61  |
|               | 43           | 6.05                   | 1.62  | 6.40  | 1.63  | 6.84  | 1.64  | 7.06  | 1.64  | 7.17  | 1.65  | 7.73  | 1.65  | 8.17  | 1.66  |
|               | 46           | 5.89                   | 1.69  | 6.24  | 1.70  | 6.68  | 1.71  | 6.90  | 1.71  | 7.01  | 1.71  | 7.56  | 1.72  | 8.01  | 1.73  |

TC: Total capacity (kW)  
PI: Power input (kW)



# 4

## Capacity tables

Indoor/outdoor temperature compensation  
Heating capacity

4

| Combination % | Outdoor °CDB | Indoor air temp.: °CWB |       |       |       |       |       |       |       |       |       |       |       |
|---------------|--------------|------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               |              | 16.0                   |       | 18.0  |       | 20.0  |       | 21.0  |       | 22.0  |       | 24.0  |       |
|               |              | TC kW                  | PI kW | TC kW | PI kW | TC kW | PI kW | TC kW | PI kW | TC kW | PI kW | TC kW | PI kW |
| 130% (18.9kW) | -15.0        | 10.49                  | 4.56  | 10.47 | 4.67  | 10.46 | 4.78  | 10.46 | 4.83  | 10.46 | 4.90  | 10.45 | 5.02  |
|               | -13.0        | 11.08                  | 4.63  | 11.07 | 4.75  | 11.05 | 4.85  | 11.04 | 4.91  | 11.04 | 4.98  | 11.03 | 5.11  |
|               | -11.0        | 11.70                  | 4.71  | 11.67 | 4.82  | 11.65 | 4.94  | 11.64 | 4.99  | 11.63 | 5.06  | 11.61 | 5.20  |
|               | -10.0        | 12.01                  | 4.75  | 11.98 | 4.86  | 11.95 | 4.98  | 11.94 | 5.04  | 11.93 | 5.11  | 11.91 | 5.24  |
|               | -9.1         | 12.29                  | 4.78  | 12.26 | 4.90  | 12.23 | 5.01  | 12.21 | 5.08  | 12.20 | 5.15  | 12.18 | 5.28  |
|               | -7.6         | 12.77                  | 4.84  | 12.73 | 4.96  | 12.70 | 5.08  | 12.68 | 5.14  | 12.66 | 5.21  | 12.64 | 5.35  |
|               | -5.6         | 13.42                  | 4.93  | 13.37 | 5.05  | 13.33 | 5.17  | 13.31 | 5.24  | 13.29 | 5.31  | 13.26 | 5.45  |
|               | -3.7         | 14.05                  | 5.01  | 14.00 | 5.13  | 13.95 | 5.26  | 13.93 | 5.33  | 13.90 | 5.40  | 13.86 | 5.55  |
|               | -0.7         | 15.07                  | 5.14  | 15.01 | 5.27  | 14.95 | 5.40  | 14.92 | 5.47  | 14.89 | 5.55  | 14.84 | 5.70  |
|               | 0.0          | 15.31                  | 5.17  | 15.24 | 5.30  | 15.18 | 5.44  | 15.15 | 5.51  | 15.12 | 5.58  | 15.07 | 5.74  |
|               | 1.0          | 15.66                  | 5.22  | 15.59 | 5.35  | 15.53 | 5.49  | 15.50 | 5.56  | 15.47 | 5.64  | 15.41 | 5.80  |
|               | 2.2          | 16.09                  | 5.28  | 16.01 | 5.41  | 15.94 | 5.55  | 15.91 | 5.62  | 15.88 | 5.70  | 15.82 | 5.86  |
|               | 4.1          | 16.77                  | 5.37  | 16.69 | 5.50  | 16.61 | 5.65  | 16.58 | 5.73  | 16.54 | 5.80  | 16.47 | 5.97  |
|               | 6.0          | 17.46                  | 5.46  | 17.38 | 5.60  | 17.30 | 5.75  | 17.26 | 5.83  | 17.22 | 5.91  | 17.15 | 6.08  |
|               | 7.9          | 18.17                  | 5.56  | 18.08 | 5.70  | 17.99 | 5.86  | 17.94 | 5.94  | 17.90 | 6.02  | 17.70 | 6.15  |
|               | 9.8          | 18.89                  | 5.66  | 18.79 | 5.81  | 18.69 | 5.97  | 18.65 | 6.05  | 18.60 | 6.13  | 18.03 | 6.15  |
|               | 11.8         | 19.66                  | 5.76  | 19.55 | 5.92  | 19.45 | 6.08  | 19.34 | 6.15  | 19.05 | 6.15  | 18.38 | 6.15  |
|               | 13.7         | 20.40                  | 5.87  | 20.29 | 6.03  | 20.03 | 6.15  | 19.71 | 6.15  | 19.42 | 6.15  | 18.74 | 6.15  |
| 120% (17.4kW) | 15.0         | 19.11                  | 5.33  | 18.52 | 5.33  | 17.91 | 5.33  | 17.58 | 5.33  | 17.26 | 5.33  | 16.59 | 5.33  |
|               | 18.0         | 17.84                  | 4.68  | 17.18 | 4.68  | 16.51 | 4.68  | 16.18 | 4.68  | 15.85 | 4.68  | 15.16 | 4.68  |
|               | -15.0        | 10.36                  | 4.68  | 10.35 | 4.80  | 10.34 | 4.90  | 10.34 | 4.96  | 10.34 | 5.03  | 10.33 | 5.15  |
|               | -13.0        | 10.96                  | 4.76  | 10.94 | 4.87  | 10.92 | 4.98  | 10.91 | 5.04  | 10.91 | 5.11  | 10.90 | 5.24  |
|               | -11.0        | 11.56                  | 4.83  | 11.54 | 4.95  | 11.51 | 5.06  | 11.50 | 5.13  | 11.49 | 5.20  | 11.48 | 5.33  |
|               | -10.0        | 11.87                  | 4.87  | 11.84 | 4.99  | 11.81 | 5.11  | 11.80 | 5.17  | 11.79 | 5.24  | 11.77 | 5.38  |
|               | -9.1         | 12.15                  | 4.91  | 12.12 | 5.03  | 12.09 | 5.15  | 12.07 | 5.21  | 12.06 | 5.28  | 12.04 | 5.42  |
|               | -7.6         | 12.62                  | 4.97  | 12.58 | 5.09  | 12.55 | 5.21  | 12.53 | 5.28  | 12.52 | 5.35  | 12.49 | 5.49  |
|               | -5.6         | 13.26                  | 5.06  | 13.22 | 5.18  | 13.18 | 5.30  | 13.16 | 5.37  | 13.14 | 5.45  | 13.10 | 5.59  |
|               | -3.7         | 13.89                  | 5.14  | 13.84 | 5.26  | 13.79 | 5.39  | 13.76 | 5.46  | 13.74 | 5.54  | 13.70 | 5.69  |
|               | -0.7         | 14.90                  | 5.28  | 14.83 | 5.40  | 14.78 | 5.54  | 14.75 | 5.62  | 14.72 | 5.69  | 14.67 | 5.85  |
|               | 0.0          | 15.13                  | 5.31  | 15.07 | 5.44  | 15.01 | 5.58  | 14.98 | 5.65  | 14.95 | 5.73  | 14.89 | 5.89  |
|               | 1.0          | 15.48                  | 5.36  | 15.41 | 5.49  | 15.35 | 5.63  | 15.32 | 5.71  | 15.29 | 5.78  | 15.23 | 5.95  |
|               | 2.2          | 15.90                  | 5.41  | 15.83 | 5.55  | 15.76 | 5.69  | 15.73 | 5.77  | 15.70 | 5.85  | 15.63 | 6.02  |
|               | 4.1          | 16.57                  | 5.51  | 16.50 | 5.65  | 16.42 | 5.80  | 16.38 | 5.88  | 16.35 | 5.95  | 16.28 | 6.13  |
|               | 6.0          | 17.26                  | 5.60  | 17.18 | 5.75  | 17.10 | 5.90  | 17.06 | 5.98  | 17.02 | 6.06  | 16.68 | 6.15  |
|               | 7.9          | 17.96                  | 5.70  | 17.87 | 5.85  | 17.78 | 6.01  | 17.74 | 6.09  | 17.63 | 6.15  | 16.98 | 6.15  |
|               | 9.8          | 18.67                  | 5.81  | 18.57 | 5.96  | 18.48 | 6.12  | 18.25 | 6.15  | 17.97 | 6.15  | 17.34 | 6.15  |
| 110% (16.0kW) | 11.8         | 19.43                  | 5.92  | 19.33 | 6.07  | 18.95 | 6.15  | 18.63 | 6.15  | 18.35 | 6.15  | 17.68 | 6.15  |
|               | 13.7         | 20.16                  | 6.02  | 19.93 | 6.15  | 19.32 | 6.15  | 18.99 | 6.15  | 18.70 | 6.15  | 18.00 | 6.15  |
|               | 15.0         | 18.39                  | 5.33  | 17.80 | 5.33  | 17.16 | 5.33  | 16.84 | 5.33  | 16.52 | 5.33  | 15.85 | 5.33  |
|               | 18.0         | 17.11                  | 4.68  | 16.44 | 4.68  | 15.75 | 4.68  | 15.42 | 4.68  | 15.09 | 4.68  | 14.37 | 4.68  |
|               | -15.0        | 10.30                  | 4.80  | 10.29 | 4.92  | 10.28 | 5.03  | 10.28 | 5.08  | 10.28 | 5.15  | 10.27 | 5.28  |
|               | -13.0        | 10.89                  | 4.88  | 10.87 | 5.00  | 10.86 | 5.11  | 10.85 | 5.17  | 10.84 | 5.24  | 10.83 | 5.37  |
|               | -11.0        | 11.49                  | 4.96  | 11.47 | 5.08  | 11.44 | 5.19  | 11.43 | 5.26  | 11.43 | 5.33  | 11.41 | 5.47  |
|               | -10.0        | 11.80                  | 5.00  | 11.77 | 5.12  | 11.74 | 5.24  | 11.73 | 5.30  | 11.72 | 5.37  | 11.70 | 5.51  |
|               | -9.1         | 12.08                  | 5.03  | 12.05 | 5.15  | 12.02 | 5.28  | 12.00 | 5.34  | 11.99 | 5.41  | 11.97 | 5.56  |
|               | -7.6         | 12.55                  | 5.10  | 12.51 | 5.22  | 12.48 | 5.34  | 12.46 | 5.41  | 12.45 | 5.49  | 12.42 | 5.63  |
|               | -5.6         | 13.19                  | 5.18  | 13.14 | 5.31  | 13.10 | 5.44  | 13.08 | 5.51  | 13.06 | 5.58  | 13.03 | 5.74  |
|               | -3.7         | 13.81                  | 5.27  | 13.76 | 5.40  | 13.71 | 5.53  | 13.68 | 5.60  | 13.66 | 5.68  | 13.62 | 5.84  |
|               | -0.7         | 14.81                  | 5.41  | 14.75 | 5.54  | 14.69 | 5.68  | 14.66 | 5.76  | 14.64 | 5.84  | 14.58 | 6.00  |
|               | 0.0          | 15.04                  | 5.44  | 14.98 | 5.58  | 14.92 | 5.72  | 14.89 | 5.80  | 14.86 | 5.88  | 14.81 | 6.04  |
|               | 1.0          | 15.39                  | 5.49  | 15.32 | 5.63  | 15.26 | 5.77  | 15.23 | 5.85  | 15.20 | 5.93  | 15.14 | 6.10  |
|               | 2.2          | 15.81                  | 5.55  | 15.74 | 5.69  | 15.67 | 5.84  | 15.63 | 5.92  | 15.60 | 6.00  | 15.48 | 6.15  |
|               | 4.1          | 16.48                  | 5.65  | 16.40 | 5.79  | 16.32 | 5.94  | 16.29 | 6.02  | 16.25 | 6.11  | 15.80 | 6.15  |
|               | 6.0          | 17.16                  | 5.75  | 17.08 | 5.89  | 17.00 | 6.05  | 16.96 | 6.13  | 16.71 | 6.15  | 16.10 | 6.15  |
|               | 7.9          | 17.85                  | 5.85  | 17.76 | 6.00  | 17.64 | 6.15  | 17.33 | 6.15  | 17.05 | 6.15  | 16.40 | 6.15  |
|               | 9.8          | 18.56                  | 5.95  | 18.46 | 6.11  | 17.98 | 6.15  | 17.69 | 6.15  | 17.38 | 6.15  | 16.72 | 6.15  |
|               | 11.8         | 19.32                  | 6.07  | 18.97 | 6.15  | 18.36 | 6.15  | 18.04 | 6.15  | 17.72 | 6.15  | 17.06 | 6.15  |
|               | 13.7         | 19.96                  | 6.15  | 19.37 | 6.15  | 18.72 | 6.15  | 18.40 | 6.15  | 18.08 | 6.15  | 17.38 | 6.15  |
|               | 15.0         | 17.82                  | 5.33  | 17.20 | 5.33  | 16.56 | 5.33  | 16.24 | 5.33  | 15.89 | 5.33  | 15.19 | 5.33  |
|               | 18.0         | 16.50                  | 4.68  | 15.80 | 4.68  | 15.14 | 4.68  | 14.78 | 4.68  | 14.45 | 4.68  | 13.71 | 4.68  |

TC: Total capacity (kW)  
PI: Power input (kW)

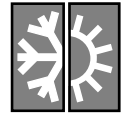


# 4 Capacity tables

4

| Combination %    | Outdoor | Indoor air temp.: °CWB |          |          |          |          |          |          |          |          |          |          |          |
|------------------|---------|------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                  | °CDB    | 16.0                   |          | 18.0     |          | 20.0     |          | 21.0     |          | 22.0     |          | 24.0     |          |
|                  |         | TC<br>kW               | PI<br>kW | TC<br>kW | PI<br>kW | TC<br>kW | PI<br>kW | TC<br>kW | PI<br>kW | TC<br>kW | PI<br>kW | TC<br>kW | PI<br>kW |
| 100%<br>(14.5kW) | -15.0   | 10.00                  | 4.80     | 9.99     | 4.92     | 9.98     | 5.03     | 9.98     | 5.08     | 9.97     | 5.15     | 9.97     | 5.28     |
|                  | -13.0   | 10.57                  | 4.88     | 10.55    | 5.00     | 10.54    | 5.11     | 10.53    | 5.17     | 10.53    | 5.24     | 10.52    | 5.37     |
|                  | -11.0   | 11.16                  | 4.96     | 11.13    | 5.08     | 11.11    | 5.19     | 11.10    | 5.26     | 11.09    | 5.33     | 11.07    | 5.47     |
|                  | -10.0   | 11.45                  | 5.00     | 11.42    | 5.12     | 11.40    | 5.24     | 11.39    | 5.30     | 11.38    | 5.37     | 11.36    | 5.51     |
|                  | -9.1    | 11.72                  | 5.03     | 11.69    | 5.15     | 11.66    | 5.28     | 11.65    | 5.34     | 11.64    | 5.41     | 11.62    | 5.56     |
|                  | -7.6    | 12.18                  | 5.10     | 12.14    | 5.22     | 12.11    | 5.34     | 12.09    | 5.41     | 12.08    | 5.49     | 12.05    | 5.63     |
|                  | -5.6    | 12.80                  | 5.18     | 12.76    | 5.31     | 12.72    | 5.44     | 12.70    | 5.51     | 12.68    | 5.58     | 12.64    | 5.74     |
|                  | -3.7    | 13.40                  | 5.27     | 13.35    | 5.40     | 13.30    | 5.53     | 13.28    | 5.60     | 13.26    | 5.68     | 13.22    | 5.84     |
|                  | -0.7    | 14.37                  | 5.41     | 14.31    | 5.54     | 14.26    | 5.68     | 14.23    | 5.76     | 14.20    | 5.84     | 14.15    | 6.00     |
|                  | 0.0     | 14.60                  | 5.44     | 14.54    | 5.58     | 14.48    | 5.72     | 14.45    | 5.80     | 14.42    | 5.88     | 14.37    | 6.04     |
|                  | 1.0     | 14.94                  | 5.49     | 14.87    | 5.63     | 14.81    | 5.77     | 14.78    | 5.85     | 14.75    | 5.93     | 14.70    | 6.10     |
|                  | 2.2     | 15.34                  | 5.55     | 15.27    | 5.69     | 15.21    | 5.84     | 15.18    | 5.92     | 15.15    | 6.00     | 15.03    | 6.15     |
|                  | 4.1     | 15.99                  | 5.65     | 15.92    | 5.79     | 15.84    | 5.94     | 15.81    | 6.02     | 15.78    | 6.11     | 15.72    | 6.15     |
|                  | 6.0     | 16.66                  | 5.75     | 16.58    | 5.89     | 16.50    | 6.05     | 16.43    | 6.13     | 16.36    | 6.21     | 16.29    | 6.15     |
|                  | 7.9     | 17.33                  | 5.85     | 17.24    | 6.00     | 17.12    | 6.15     | 17.01    | 6.21     | 16.90    | 6.26     | 16.80    | 6.15     |
|                  | 9.8     | 18.01                  | 5.95     | 17.92    | 6.11     | 17.80    | 6.26     | 17.69    | 6.32     | 17.58    | 6.37     | 17.47    | 6.15     |
|                  | 11.8    | 18.75                  | 6.07     | 18.64    | 6.23     | 18.52    | 6.38     | 18.40    | 6.44     | 18.29    | 6.49     | 18.17    | 6.15     |
|                  | 13.7    | 19.37                  | 6.15     | 19.25    | 6.31     | 19.13    | 6.46     | 19.01    | 6.52     | 18.90    | 6.57     | 18.78    | 6.15     |
|                  | 15.0    | 17.21                  | 5.33     | 16.60    | 5.33     | 15.96    | 5.33     | 15.64    | 5.33     | 15.29    | 5.33     | 14.60    | 5.33     |
|                  | 18.0    | 15.86                  | 4.68     | 15.17    | 4.68     | 14.51    | 4.68     | 14.15    | 4.68     | 13.83    | 4.68     | 13.08    | 4.68     |
| 90%<br>(13.1kW)  | -15.0   | 9.09                   | 3.97     | 9.08     | 4.06     | 9.07     | 4.15     | 9.07     | 4.20     | 9.07     | 4.26     | 9.06     | 4.37     |
|                  | -13.0   | 9.61                   | 4.03     | 9.59     | 4.13     | 9.58     | 4.22     | 9.57     | 4.27     | 9.57     | 4.33     | 9.56     | 4.44     |
|                  | -11.0   | 10.14                  | 4.10     | 10.12    | 4.19     | 10.10    | 4.29     | 10.09    | 4.34     | 10.08    | 4.40     | 10.07    | 4.52     |
|                  | -10.0   | 10.41                  | 4.13     | 10.39    | 4.23     | 10.36    | 4.33     | 10.35    | 4.38     | 10.34    | 4.44     | 10.32    | 4.56     |
|                  | -9.1    | 10.66                  | 4.16     | 10.63    | 4.26     | 10.60    | 4.36     | 10.59    | 4.41     | 10.58    | 4.47     | 10.56    | 4.59     |
|                  | -7.6    | 11.07                  | 4.21     | 11.04    | 4.31     | 11.01    | 4.42     | 10.99    | 4.47     | 10.98    | 4.53     | 10.96    | 4.66     |
|                  | -5.6    | 11.64                  | 4.28     | 11.60    | 4.39     | 11.56    | 4.49     | 11.54    | 4.55     | 11.53    | 4.61     | 11.50    | 4.74     |
|                  | -3.7    | 12.18                  | 4.36     | 12.14    | 4.46     | 12.09    | 4.57     | 12.07    | 4.63     | 12.06    | 4.69     | 12.02    | 4.82     |
|                  | -0.7    | 13.07                  | 4.47     | 13.01    | 4.58     | 12.96    | 4.70     | 12.94    | 4.76     | 12.91    | 4.82     | 12.87    | 4.96     |
|                  | 0.0     | 13.27                  | 4.50     | 13.22    | 4.61     | 13.16    | 4.73     | 13.14    | 4.79     | 13.11    | 4.86     | 13.06    | 4.99     |
|                  | 1.0     | 13.58                  | 4.54     | 13.52    | 4.65     | 13.46    | 4.77     | 13.44    | 4.84     | 13.41    | 4.90     | 13.36    | 5.04     |
|                  | 2.2     | 13.95                  | 4.59     | 13.88    | 4.70     | 13.82    | 4.82     | 13.80    | 4.89     | 13.77    | 4.96     | 13.71    | 5.10     |
|                  | 4.1     | 14.54                  | 4.67     | 14.47    | 4.78     | 14.40    | 4.91     | 14.37    | 4.98     | 14.34    | 5.05     | 14.28    | 5.19     |
|                  | 6.0     | 15.14                  | 4.75     | 15.07    | 4.87     | 15.00    | 5.00     | 14.97    | 5.07     | 14.93    | 5.14     | 14.87    | 5.29     |
|                  | 7.9     | 15.75                  | 4.83     | 15.67    | 4.96     | 15.60    | 5.09     | 15.56    | 5.16     | 15.52    | 5.23     | 15.45    | 5.39     |
|                  | 9.8     | 16.38                  | 4.92     | 16.29    | 5.05     | 16.21    | 5.19     | 16.17    | 5.26     | 16.13    | 5.33     | 16.05    | 5.49     |
|                  | 11.8    | 17.04                  | 5.01     | 16.95    | 5.15     | 16.86    | 5.29     | 16.82    | 5.36     | 16.78    | 5.44     | 16.69    | 5.60     |
|                  | 13.7    | 17.69                  | 5.10     | 17.59    | 5.24     | 17.50    | 5.39     | 17.45    | 5.47     | 17.41    | 5.54     | 17.32    | 5.70     |
|                  | 15.0    | 18.16                  | 5.17     | 18.06    | 5.31     | 17.91    | 5.46     | 17.83    | 5.53     | 17.74    | 5.60     | 17.64    | 5.74     |
|                  | 18.0    | 17.27                  | 4.68     | 16.71    | 4.68     | 16.15    | 4.68     | 15.86    | 4.68     | 15.57    | 4.68     | 14.96    | 4.68     |
| 80%<br>(11.6kW)  | -15.0   | 8.12                   | 3.19     | 8.11     | 3.27     | 8.10     | 3.34     | 8.10     | 3.38     | 8.10     | 3.42     | 8.10     | 3.51     |
|                  | -13.0   | 8.59                   | 3.24     | 8.57     | 3.32     | 8.56     | 3.39     | 8.55     | 3.43     | 8.55     | 3.48     | 8.54     | 3.57     |
|                  | -11.0   | 9.06                   | 3.29     | 9.04     | 3.37     | 9.02     | 3.45     | 9.01     | 3.49     | 9.01     | 3.54     | 8.99     | 3.63     |
|                  | -10.0   | 9.30                   | 3.32     | 9.28     | 3.40     | 9.26     | 3.48     | 9.25     | 3.52     | 9.24     | 3.57     | 9.22     | 3.66     |
|                  | -9.1    | 9.52                   | 3.34     | 9.50     | 3.42     | 9.47     | 3.51     | 9.46     | 3.55     | 9.45     | 3.60     | 9.43     | 3.69     |
|                  | -7.6    | 9.89                   | 3.39     | 9.86     | 3.47     | 9.83     | 3.55     | 9.82     | 3.60     | 9.81     | 3.65     | 9.79     | 3.74     |
|                  | -5.6    | 10.39                  | 3.44     | 10.36    | 3.53     | 10.33    | 3.61     | 10.31    | 3.66     | 10.30    | 3.71     | 10.27    | 3.81     |
|                  | -3.7    | 10.88                  | 3.50     | 10.84    | 3.59     | 10.80    | 3.68     | 10.79    | 3.72     | 10.77    | 3.77     | 10.74    | 3.88     |
|                  | -0.7    | 11.67                  | 3.59     | 11.62    | 3.68     | 11.58    | 3.78     | 11.56    | 3.83     | 11.54    | 3.88     | 11.50    | 3.99     |
|                  | 0.0     | 11.86                  | 3.62     | 11.81    | 3.71     | 11.76    | 3.80     | 11.74    | 3.85     | 11.71    | 3.90     | 11.67    | 4.01     |
|                  | 1.0     | 12.13                  | 3.65     | 12.08    | 3.74     | 12.03    | 3.84     | 12.00    | 3.89     | 11.98    | 3.94     | 11.94    | 4.05     |
|                  | 2.2     | 12.46                  | 3.69     | 12.40    | 3.78     | 12.35    | 3.88     | 12.32    | 3.93     | 12.30    | 3.98     | 12.25    | 4.10     |
|                  | 4.1     | 12.99                  | 3.75     | 12.93    | 3.85     | 12.87    | 3.95     | 12.84    | 4.00     | 12.81    | 4.06     | 12.76    | 4.17     |
|                  | 6.0     | 13.53                  | 3.82     | 13.46    | 3.92     | 13.40    | 4.02     | 13.37    | 4.07     | 13.34    | 4.13     | 13.28    | 4.25     |
|                  | 7.9     | 14.07                  | 3.89     | 14.00    | 3.99     | 13.93    | 4.09     | 13.90    | 4.15     | 13.87    | 4.21     | 13.80    | 4.33     |
|                  | 9.8     | 14.63                  | 3.96     | 14.55    | 4.06     | 14.48    | 4.17     | 14.44    | 4.23     | 14.41    | 4.29     | 14.34    | 4.41     |
|                  | 11.8    | 15.23                  | 4.03     | 15.14    | 4.14     | 15.06    | 4.25     | 15.03    | 4.31     | 14.99    | 4.37     | 14.91    | 4.50     |
|                  | 13.7    | 15.80                  | 4.10     | 15.72    | 4.22     | 15.63    | 4.33     | 15.59    | 4.39     | 15.55    | 4.45     | 15.47    | 4.58     |
|                  | 15.0    | 16.22                  | 4.16     | 16.14    | 4.27     | 16.05    | 4.38     | 16.01    | 4.45     | 15.97    | 4.51     | 15.90    | 4.64     |
|                  | 18.0    | 17.14                  | 4.27     | 17.04    | 4.40     | 16.95    | 4.52     | 16.90    | 4.59     | 16.86    | 4.65     | 16.43    | 4.68     |

TC: Total capacity (kW)  
PI: Power input (kW)



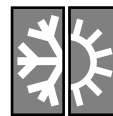
# 4

## Capacity tables

**4**

| Combination %    | Outdoor | Indoor air temp.: °CWB |      |       |      |       |      |       |      |       |      |       |      |
|------------------|---------|------------------------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
|                  | °CDB    | 16.0                   |      | 18.0  |      | 20.0  |      | 21.0  |      | 22.0  |      | 24.0  |      |
|                  |         | TC                     | PI   | TC    | PI   | TC    | PI   | TC    | PI   | TC    | PI   | TC    | PI   |
|                  |         | kW                     | kW   | kW    | kW   | kW    | kW   | kW    | kW   | kW    | kW   | kW    | kW   |
| 70%<br>(10.2kW)  | -15.0   | 7.27                   | 2.58 | 7.26  | 2.64 | 7.26  | 2.70 | 7.26  | 2.73 | 7.25  | 2.77 | 7.25  | 2.84 |
|                  | -13.0   | 7.69                   | 2.62 | 7.68  | 2.68 | 7.66  | 2.74 | 7.66  | 2.78 | 7.65  | 2.81 | 7.65  | 2.89 |
|                  | -11.0   | 8.11                   | 2.66 | 8.10  | 2.73 | 8.08  | 2.79 | 8.07  | 2.82 | 8.07  | 2.86 | 8.05  | 2.94 |
|                  | -10.0   | 8.33                   | 2.68 | 8.31  | 2.75 | 8.29  | 2.81 | 8.28  | 2.85 | 8.27  | 2.89 | 8.26  | 2.96 |
|                  | -9.1    | 8.53                   | 2.70 | 8.50  | 2.77 | 8.48  | 2.83 | 8.47  | 2.87 | 8.46  | 2.91 | 8.45  | 2.99 |
|                  | -7.6    | 8.86                   | 2.74 | 8.83  | 2.80 | 8.81  | 2.87 | 8.79  | 2.91 | 8.78  | 2.95 | 8.76  | 3.03 |
|                  | -5.6    | 9.31                   | 2.78 | 9.28  | 2.85 | 9.25  | 2.92 | 9.23  | 2.96 | 9.22  | 3.00 | 9.20  | 3.08 |
|                  | -3.7    | 9.75                   | 2.83 | 9.71  | 2.90 | 9.68  | 2.97 | 9.66  | 3.01 | 9.64  | 3.05 | 9.62  | 3.14 |
|                  | -0.7    | 10.45                  | 2.91 | 10.41 | 2.98 | 10.37 | 3.05 | 10.35 | 3.09 | 10.33 | 3.14 | 10.29 | 3.22 |
|                  | 0.0     | 10.62                  | 2.92 | 10.57 | 3.00 | 10.53 | 3.07 | 10.51 | 3.11 | 10.49 | 3.16 | 10.45 | 3.25 |
|                  | 1.0     | 10.86                  | 2.95 | 10.82 | 3.02 | 10.77 | 3.10 | 10.75 | 3.14 | 10.73 | 3.19 | 10.69 | 3.28 |
|                  | 2.2     | 11.16                  | 2.98 | 11.11 | 3.06 | 11.06 | 3.14 | 11.04 | 3.18 | 11.01 | 3.22 | 10.97 | 3.31 |
|                  | 4.1     | 11.63                  | 3.03 | 11.58 | 3.11 | 11.52 | 3.19 | 11.50 | 3.24 | 11.47 | 3.28 | 11.43 | 3.37 |
|                  | 6.0     | 12.11                  | 3.09 | 12.06 | 3.17 | 12.00 | 3.25 | 11.97 | 3.29 | 11.95 | 3.34 | 11.89 | 3.44 |
|                  | 7.9     | 12.60                  | 3.14 | 12.54 | 3.22 | 12.48 | 3.31 | 12.45 | 3.36 | 12.42 | 3.40 | 12.36 | 3.50 |
|                  | 9.8     | 13.10                  | 3.20 | 13.03 | 3.28 | 12.97 | 3.37 | 12.93 | 3.42 | 12.90 | 3.46 | 12.84 | 3.57 |
|                  | 11.8    | 13.63                  | 3.26 | 13.56 | 3.35 | 13.49 | 3.44 | 13.46 | 3.49 | 13.42 | 3.53 | 13.36 | 3.64 |
|                  | 13.7    | 14.15                  | 3.32 | 14.07 | 3.41 | 14.00 | 3.50 | 13.96 | 3.55 | 13.93 | 3.60 | 13.85 | 3.71 |
|                  | 15.0    | 14.52                  | 3.36 | 14.45 | 3.45 | 14.38 | 3.54 | 14.34 | 3.59 | 14.31 | 3.65 | 14.24 | 3.75 |
|                  | 18.0    | 15.35                  | 3.46 | 15.26 | 3.55 | 15.18 | 3.66 | 15.14 | 3.71 | 15.09 | 3.76 | 15.01 | 3.87 |
| 60%<br>(8.7kW)   | -15.0   | 6.30                   | 2.04 | 6.30  | 2.09 | 6.29  | 2.14 | 6.29  | 2.16 | 6.29  | 2.19 | 6.28  | 2.24 |
|                  | -13.0   | 6.66                   | 2.07 | 6.65  | 2.12 | 6.64  | 2.17 | 6.64  | 2.20 | 6.63  | 2.23 | 6.63  | 2.28 |
|                  | -11.0   | 7.03                   | 2.10 | 7.02  | 2.16 | 7.00  | 2.21 | 7.00  | 2.23 | 6.99  | 2.26 | 6.98  | 2.32 |
|                  | -10.0   | 7.22                   | 2.12 | 7.20  | 2.17 | 7.18  | 2.22 | 7.18  | 2.25 | 7.17  | 2.28 | 7.16  | 2.34 |
|                  | -9.1    | 7.39                   | 2.14 | 7.37  | 2.19 | 7.35  | 2.24 | 7.34  | 2.27 | 7.34  | 2.30 | 7.32  | 2.36 |
|                  | -7.6    | 7.68                   | 2.17 | 7.65  | 2.22 | 7.63  | 2.27 | 7.62  | 2.30 | 7.61  | 2.33 | 7.60  | 2.39 |
|                  | -5.6    | 8.07                   | 2.20 | 8.04  | 2.25 | 8.01  | 2.31 | 8.00  | 2.34 | 7.99  | 2.37 | 7.97  | 2.44 |
|                  | -3.7    | 8.45                   | 2.24 | 8.42  | 2.29 | 8.39  | 2.35 | 8.37  | 2.38 | 8.36  | 2.41 | 8.33  | 2.48 |
|                  | -0.7    | 9.06                   | 2.30 | 9.02  | 2.35 | 8.99  | 2.41 | 8.97  | 2.45 | 8.95  | 2.48 | 8.92  | 2.55 |
|                  | 0.0     | 9.20                   | 2.31 | 9.16  | 2.37 | 9.13  | 2.43 | 9.11  | 2.46 | 9.09  | 2.50 | 9.06  | 2.57 |
|                  | 1.0     | 9.42                   | 2.33 | 9.37  | 2.39 | 9.34  | 2.45 | 9.32  | 2.49 | 9.30  | 2.52 | 9.26  | 2.59 |
|                  | 2.2     | 9.67                   | 2.36 | 9.63  | 2.42 | 9.58  | 2.48 | 9.56  | 2.51 | 9.55  | 2.55 | 9.51  | 2.62 |
|                  | 4.1     | 10.08                  | 2.40 | 10.03 | 2.46 | 9.99  | 2.52 | 9.96  | 2.56 | 9.94  | 2.59 | 9.90  | 2.67 |
|                  | 6.0     | 10.50                  | 2.44 | 10.45 | 2.50 | 10.40 | 2.57 | 10.38 | 2.61 | 10.35 | 2.64 | 10.31 | 2.72 |
|                  | 7.9     | 10.92                  | 2.48 | 10.87 | 2.55 | 10.81 | 2.62 | 10.79 | 2.65 | 10.76 | 2.69 | 10.71 | 2.77 |
|                  | 9.8     | 11.35                  | 2.53 | 11.29 | 2.60 | 11.24 | 2.67 | 11.21 | 2.70 | 11.18 | 2.74 | 11.13 | 2.82 |
|                  | 11.8    | 11.82                  | 2.58 | 11.75 | 2.65 | 11.69 | 2.72 | 11.66 | 2.76 | 11.63 | 2.79 | 11.57 | 2.88 |
|                  | 13.7    | 12.26                  | 2.62 | 12.20 | 2.69 | 12.13 | 2.77 | 12.10 | 2.81 | 12.07 | 2.85 | 12.01 | 2.93 |
|                  | 15.0    | 12.59                  | 2.66 | 12.52 | 2.73 | 12.46 | 2.80 | 12.43 | 2.84 | 12.40 | 2.88 | 12.34 | 2.97 |
|                  | 18.0    | 13.30                  | 2.73 | 13.23 | 2.81 | 13.15 | 2.89 | 13.12 | 2.93 | 13.08 | 2.97 | 13.01 | 3.06 |
| 51.7%<br>(7.5kW) | -15.0   | 5.52                   | 1.68 | 5.51  | 1.72 | 5.50  | 1.76 | 5.50  | 1.78 | 5.50  | 1.81 | 5.50  | 1.85 |
|                  | -13.0   | 5.83                   | 1.71 | 5.82  | 1.75 | 5.81  | 1.79 | 5.81  | 1.81 | 5.80  | 1.84 | 5.80  | 1.88 |
|                  | -11.0   | 6.15                   | 1.74 | 6.14  | 1.78 | 6.13  | 1.82 | 6.12  | 1.84 | 6.12  | 1.87 | 6.11  | 1.92 |
|                  | -10.0   | 6.32                   | 1.75 | 6.30  | 1.79 | 6.29  | 1.83 | 6.28  | 1.86 | 6.27  | 1.88 | 6.26  | 1.93 |
|                  | -9.1    | 6.47                   | 1.76 | 6.45  | 1.81 | 6.43  | 1.85 | 6.42  | 1.87 | 6.42  | 1.90 | 6.41  | 1.95 |
|                  | -7.6    | 6.72                   | 1.79 | 6.70  | 1.83 | 6.68  | 1.87 | 6.67  | 1.90 | 6.66  | 1.92 | 6.65  | 1.97 |
|                  | -5.6    | 7.06                   | 1.82 | 7.04  | 1.86 | 7.01  | 1.91 | 7.00  | 1.93 | 6.99  | 1.96 | 6.97  | 2.01 |
|                  | -3.7    | 7.39                   | 1.85 | 7.36  | 1.89 | 7.34  | 1.94 | 7.33  | 1.96 | 7.31  | 1.99 | 7.29  | 2.05 |
|                  | -0.7    | 7.93                   | 1.90 | 7.89  | 1.94 | 7.86  | 1.99 | 7.85  | 2.02 | 7.83  | 2.05 | 7.81  | 2.10 |
|                  | 0.0     | 8.05                   | 1.91 | 8.02  | 1.95 | 7.99  | 2.00 | 7.97  | 2.03 | 7.95  | 2.06 | 7.93  | 2.12 |
|                  | 1.0     | 8.24                   | 1.92 | 8.20  | 1.97 | 8.17  | 2.02 | 8.15  | 2.05 | 8.14  | 2.08 | 8.11  | 2.14 |
|                  | 2.2     | 8.46                   | 1.95 | 8.42  | 1.99 | 8.39  | 2.05 | 8.37  | 2.07 | 8.35  | 2.10 | 8.32  | 2.16 |
|                  | 4.1     | 8.82                   | 1.98 | 8.78  | 2.03 | 8.74  | 2.08 | 8.72  | 2.11 | 8.70  | 2.14 | 8.66  | 2.20 |
|                  | 6.0     | 9.19                   | 2.01 | 9.14  | 2.07 | 9.10  | 2.12 | 9.08  | 2.15 | 9.06  | 2.18 | 9.02  | 2.24 |
|                  | 7.9     | 9.56                   | 2.05 | 9.51  | 2.10 | 9.46  | 2.16 | 9.44  | 2.19 | 9.42  | 2.22 | 9.37  | 2.28 |
|                  | 9.8     | 9.93                   | 2.09 | 9.88  | 2.14 | 9.83  | 2.20 | 9.81  | 2.23 | 9.78  | 2.26 | 9.74  | 2.33 |
|                  | 11.8    | 10.34                  | 2.13 | 10.28 | 2.18 | 10.23 | 2.24 | 10.20 | 2.27 | 10.18 | 2.30 | 10.13 | 2.37 |
|                  | 13.7    | 10.73                  | 2.16 | 10.67 | 2.22 | 10.61 | 2.28 | 10.59 | 2.32 | 10.56 | 2.35 | 10.51 | 2.42 |
|                  | 15.0    | 11.01                  | 2.19 | 10.96 | 2.25 | 10.90 | 2.31 | 10.88 | 2.34 | 10.85 | 2.38 | 10.80 | 2.45 |
|                  | 18.0    | 11.64                  | 2.25 | 11.58 | 2.32 | 11.51 | 2.38 | 11.48 | 2.42 | 11.45 | 2.45 | 11.39 | 2.52 |

TC: Total capacity (kW)  
PI: Power input (kW)



## 4 Capacity tables

### 4 Capacity correction factor by the length of refrigerant piping (Reference) Rate of change in capacity by the main piping length

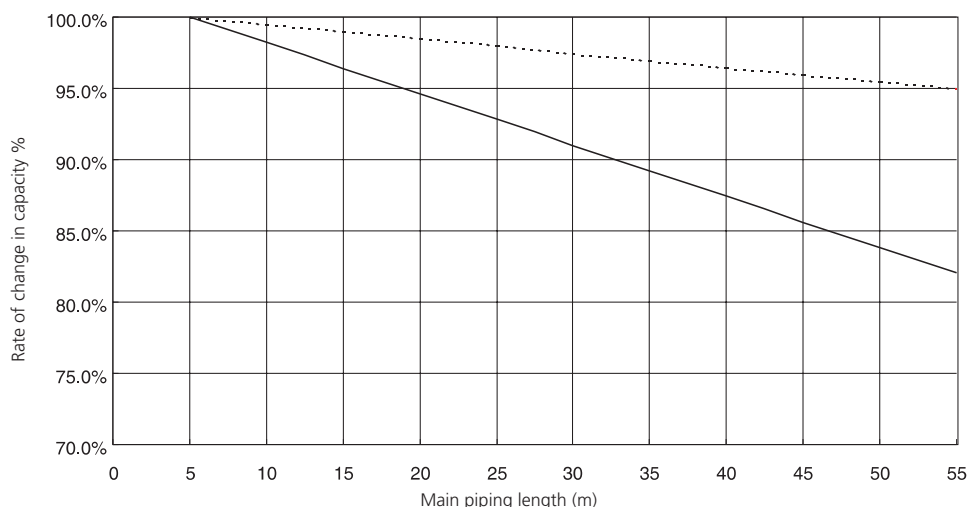
Rate of change in cooling capacity

| Main piping length                 | 5      | 10    | 15    | 20    | 25    | 30    | 35    | 40    | 45    | 50    | 55    |
|------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Rate of change in cooling capacity | 100.0% | 98.2% | 96.4% | 94.6% | 92.8% | 91.0% | 89.2% | 87.4% | 85.6% | 83.8% | 82.0% |

Rate of change in heating capacity

| Main piping length                 | 5      | 10    | 15    | 20    | 25    | 30    | 35    | 40    | 45    | 50    | 55    |
|------------------------------------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Rate of change in heating capacity | 100.0% | 99.5% | 99.0% | 98.5% | 98.0% | 97.5% | 97.0% | 96.5% | 96.0% | 95.5% | 95.0% |

- Rate of change in capacity by the main piping length



In both cases, the outdoor unit is in inferior or superior position for the indoor unit, the rate of change in capacity is the same.

### Rate of change in capacity by the branch piping length

Room air conditioner 25 class

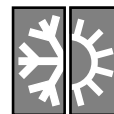
| Piping length | Cooling | Heating |
|---------------|---------|---------|
| 3             | 100.0%  | 100.0%  |
| 5             | 98.7%   | 99.4%   |
| 10            | 95.3%   | 97.9%   |
| 15            | 92.0%   | 96.4%   |

Room air conditioner 35-50-60-71 class, sky air 35 class

| Piping length | Cooling | Heating |
|---------------|---------|---------|
| 3             | 100.0%  | 100.0%  |
| 5             | 99.3%   | 99.6%   |
| 10            | 97.7%   | 98.6%   |
| 15            | 96.0%   | 97.5%   |

Sky air 45-60-71 class

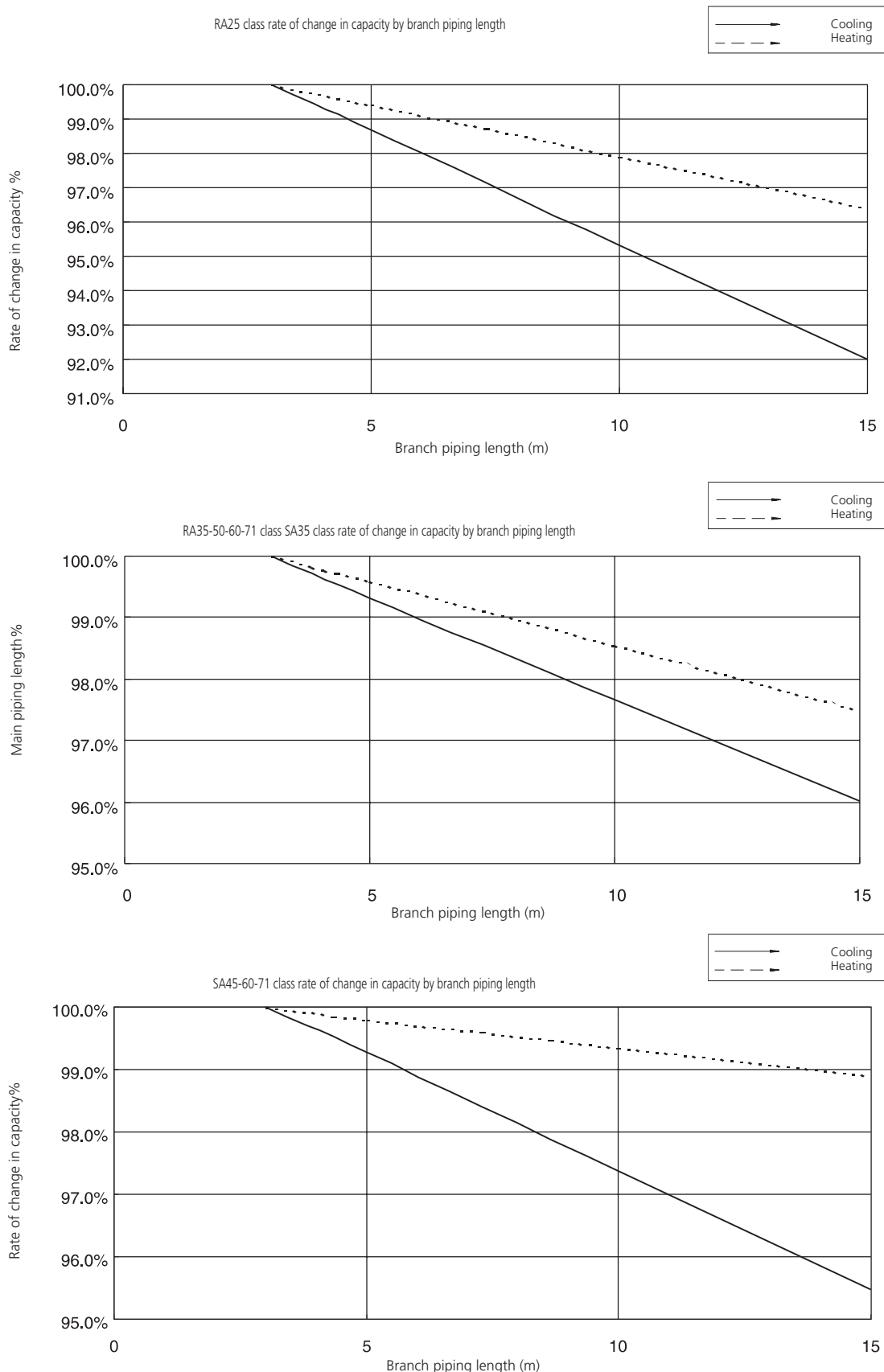
| Piping length | Cooling | Heating |
|---------------|---------|---------|
| 3             | 100.0%  | 100.0%  |
| 5             | 99.3%   | 99.8%   |
| 10            | 97.4%   | 99.3%   |
| 15            | 95.5%   | 98.9%   |



# 4

## Capacity tables

4



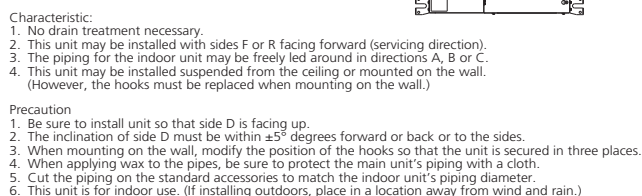
Method of calculating cooling / heating capacity:  
 Total capacity from capacity tables x (Rate of change in capacity by main piping length x rate of change in capacity by branch piping length).

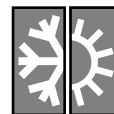
## 5

## unit (mm)



## unit (mm)



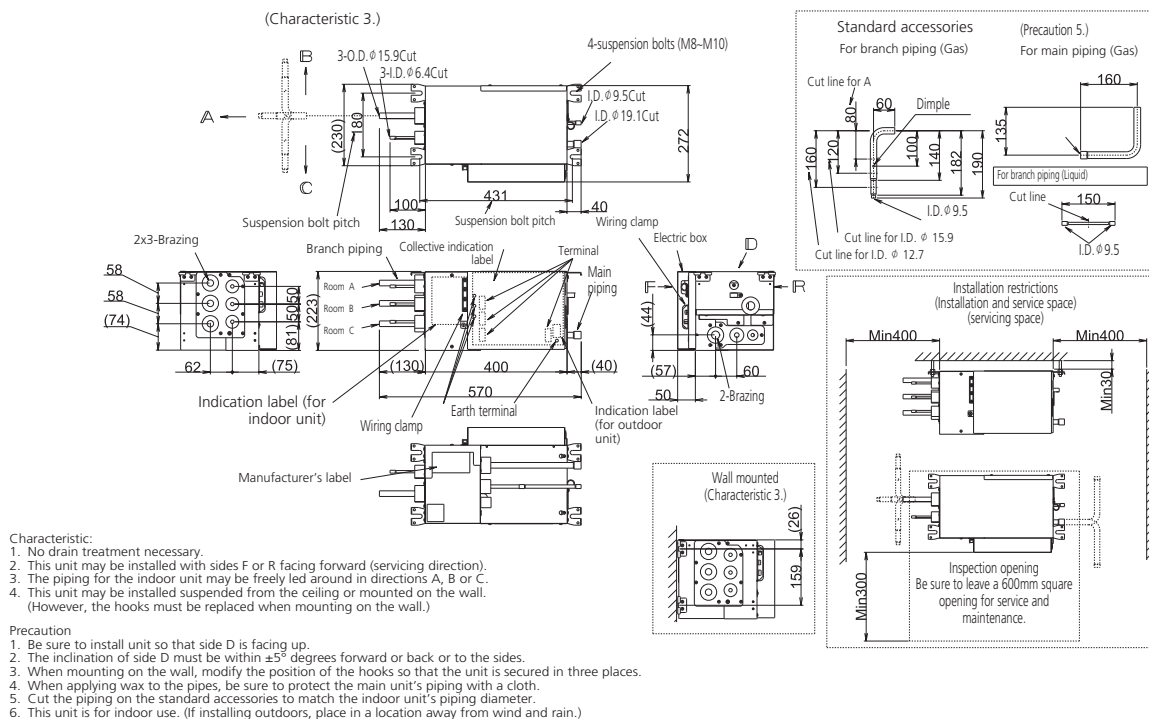


## 5 Dimensional drawings

BPMK928B43

unit (mm)

5



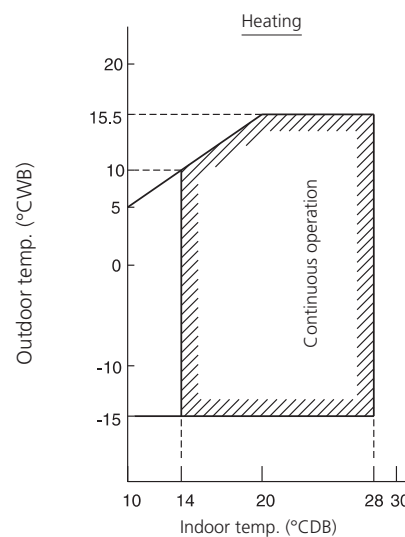
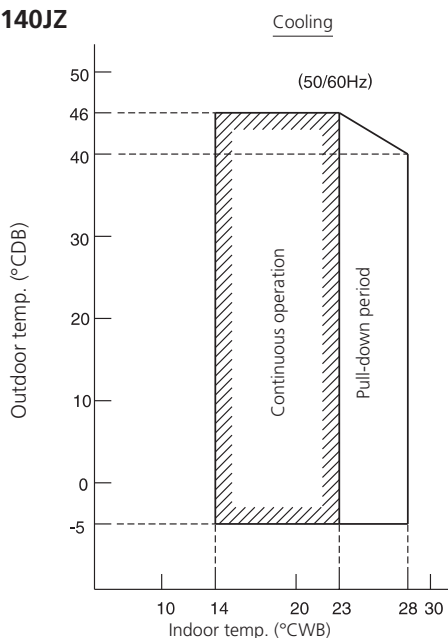
3D024826B



## 6 Operation range

6

### RMX140JZ



**Notes:**

The graphs are based on the following conditions:

- Equivalent piping length

From outdoor unit to BP unit 3 m

Total from BP unit to indoor unit 5 m

- Level difference 0 m

- Air flow rate high

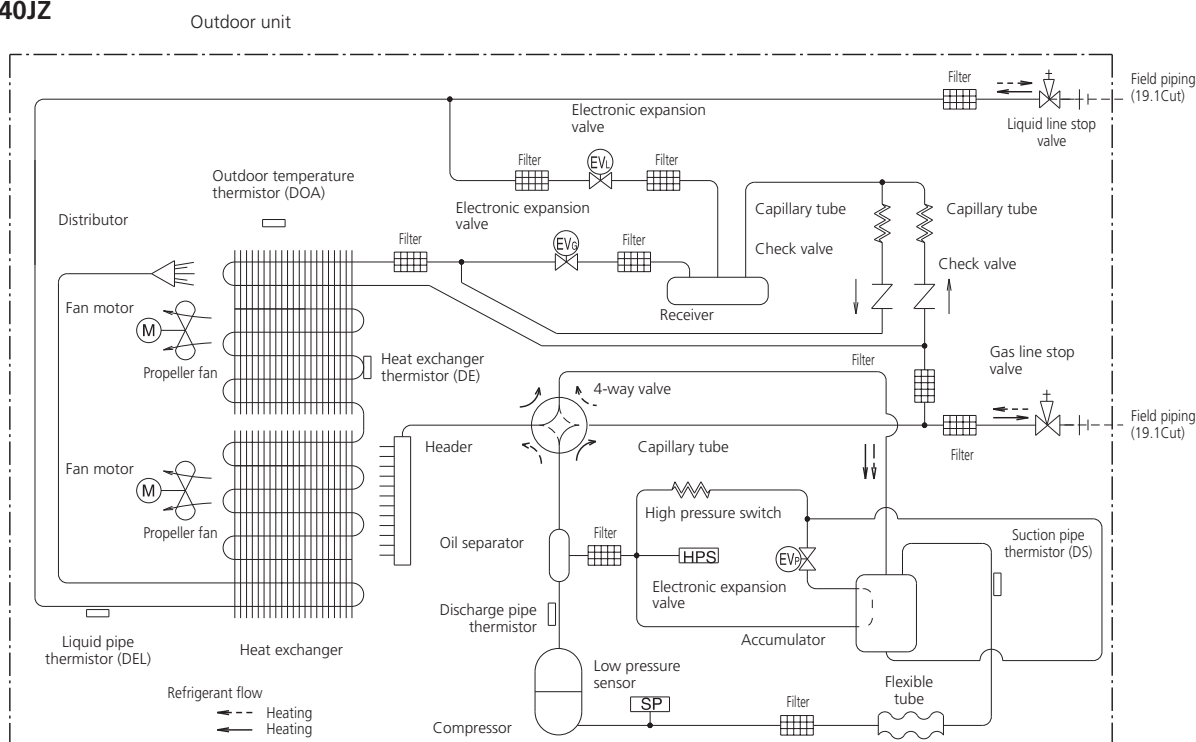
3D027606A



# 7 Piping diagrams

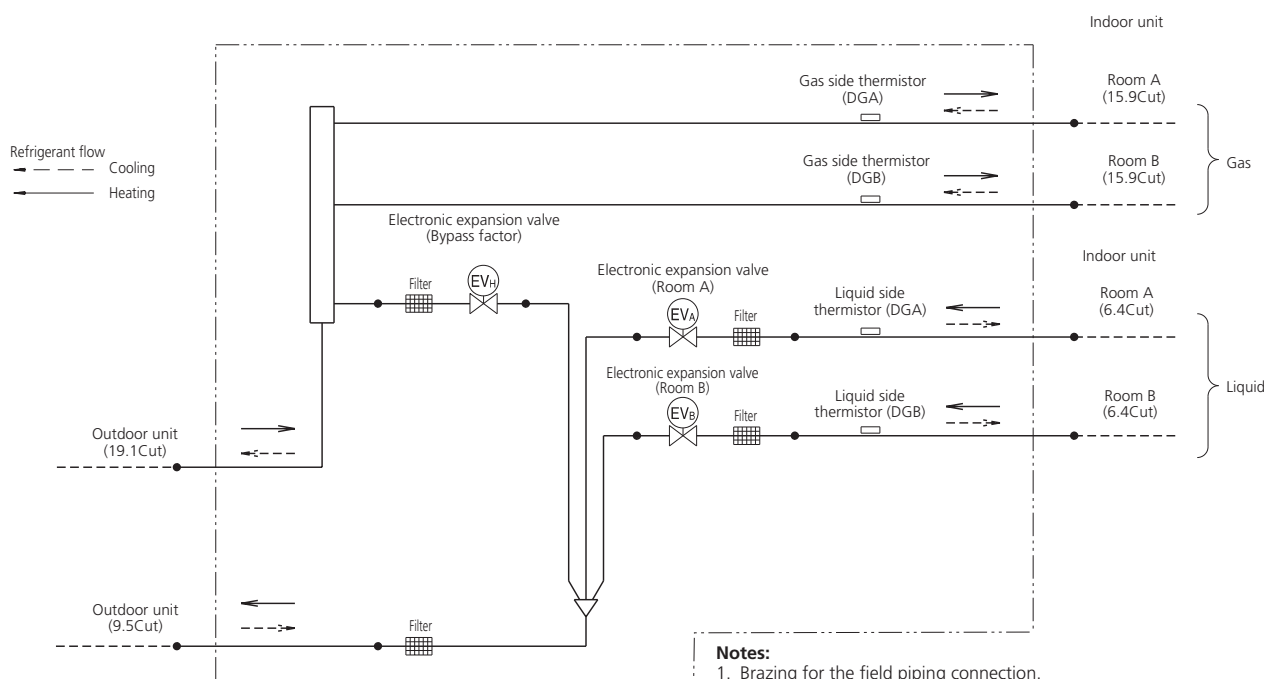
7

## RMX140JZ

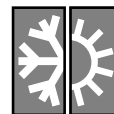


3D024920B

## BPMK928B42



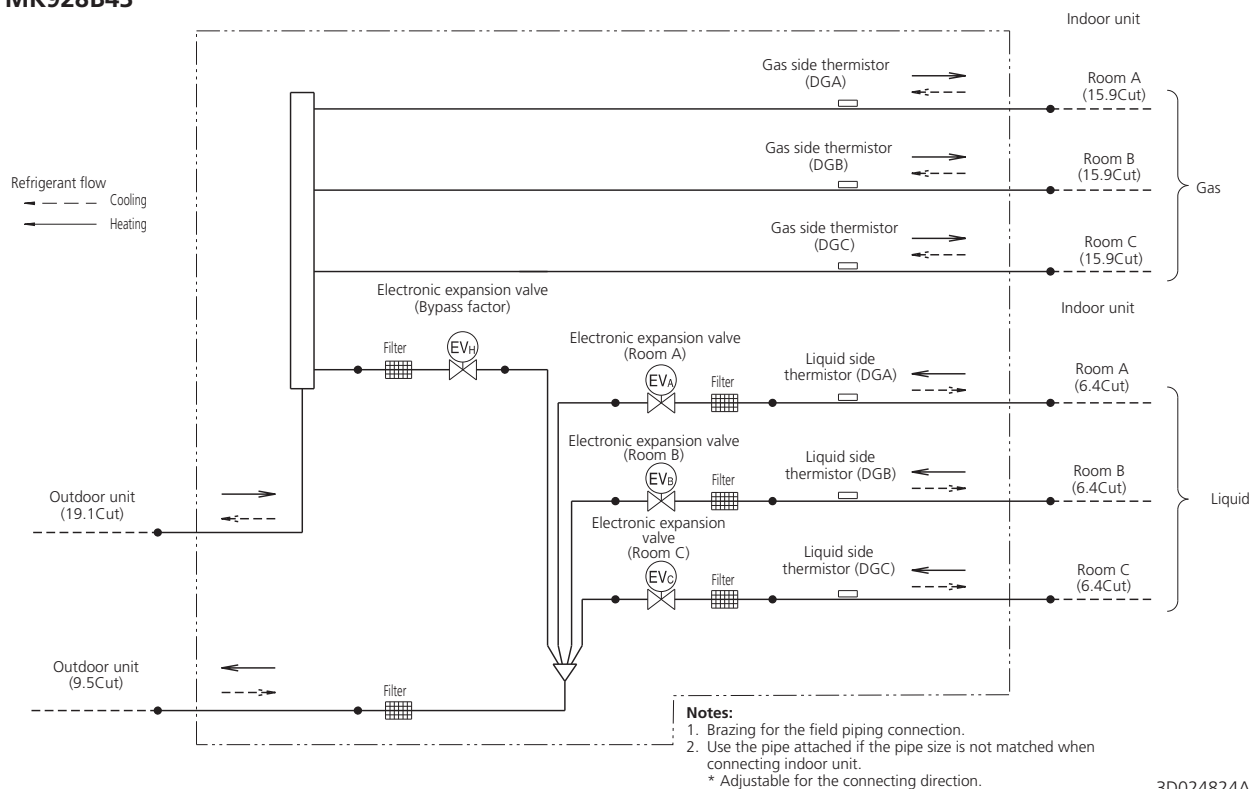
3D024825A



## 7 Piping diagrams

7

BPMK928B43



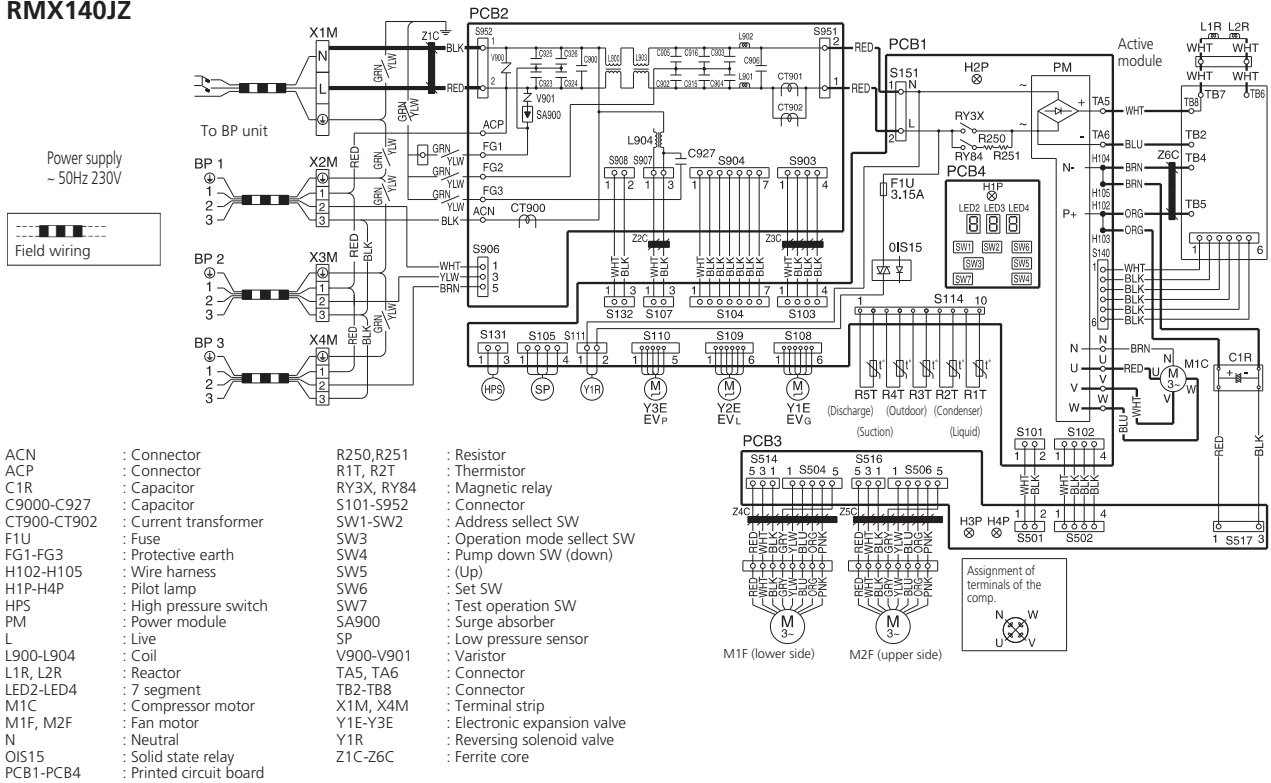
3D024824A



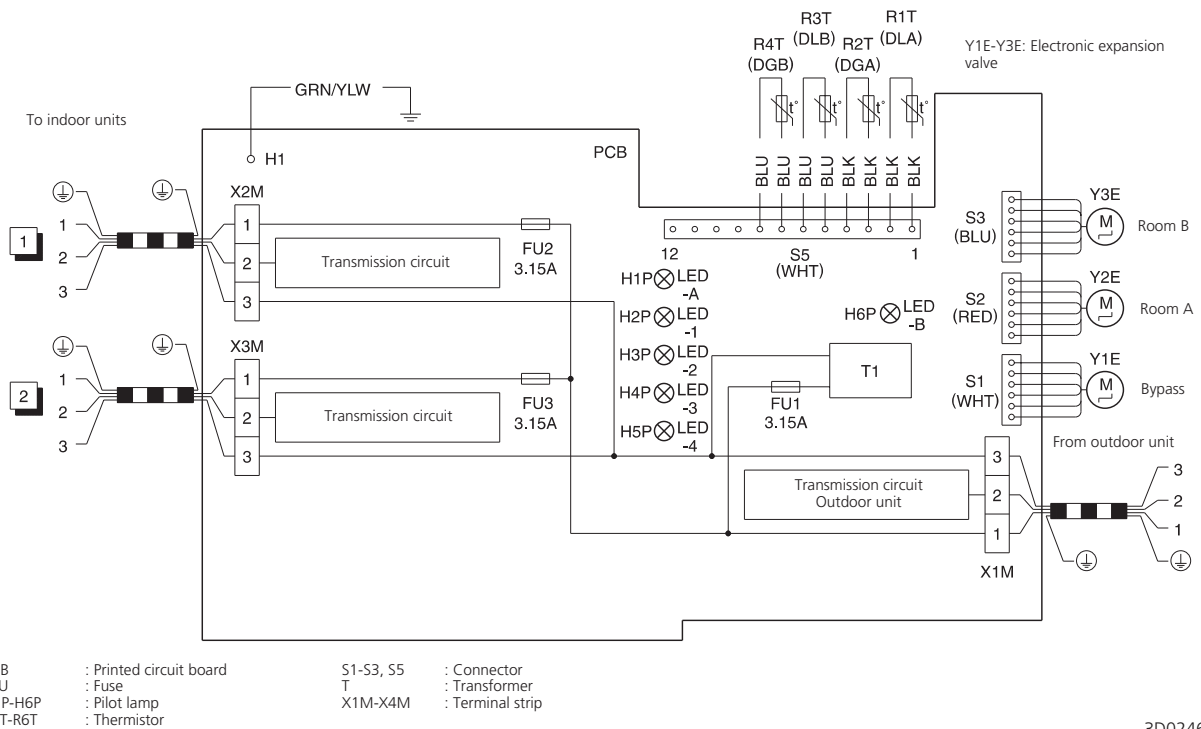
# 8 Wiring diagrams

8

## RMX140JZ



## BPMK928B42



PCB : Printed circuit board  
F1U : Fuse  
H1P-H6P : Pilot lamp  
R1T-R6T : Thermistor

S1-S3, S5 : Connector  
T : Transformer  
X1M-X4M : Terminal strip

## 8

**Legend:**

- B : Printed circuit board
- U : Fuse
- P-H6P : Pilot lamp
- T-R6T : Thermistor
- S1-S3, S5 : Connector
- T : Transformer
- X1M-X4M : Terminal strip

3D024654B

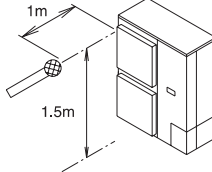


## 9 Sound level

### 9-1 Sound level data

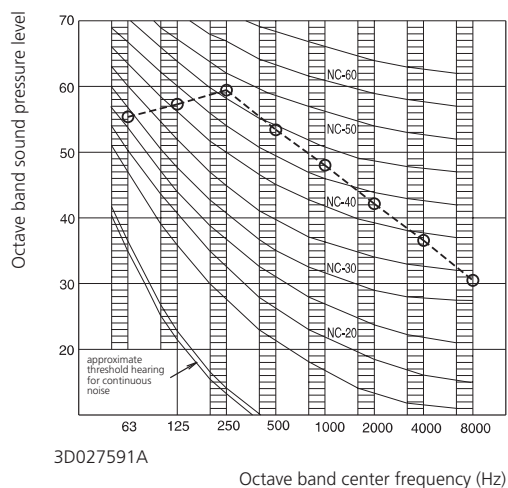
9

9-1

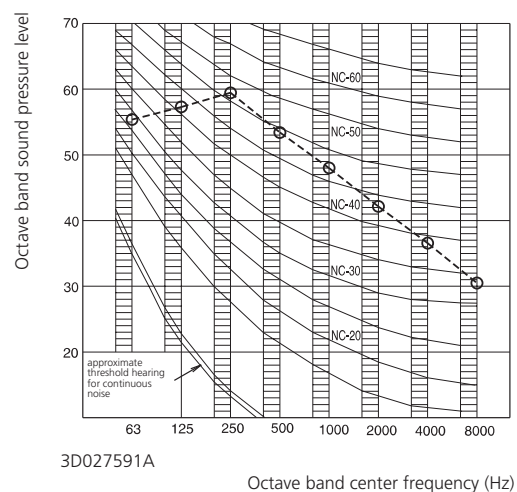
| Model      | Sound pressure level |         |                                                                                    |
|------------|----------------------|---------|------------------------------------------------------------------------------------|
|            | 230V (50Hz)          |         | Measuring location                                                                 |
|            | Cooling              | Heating |                                                                                    |
| RMX140JVMB | 53                   | 53      |  |

### 9-2 Sound pressure spectrum

RMX140JVMB (Cooling)



RMX140JVMB (Heating)



**Note:**

1. Operation sound is measured in an anechoic chamber.
2. Data is valid at free field condition

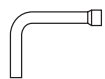
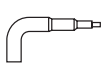


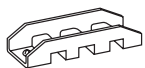
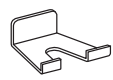
# 10 Accessories

## 10-1 Standard accessories

### 10 To BP unit

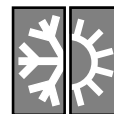
10-1

|                                                                                                                                                      |                                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| ①                                                                                                                                                    |                                   |
|  <ul style="list-style-type: none"> <li>*English version</li> </ul> | 1 pc.                             |
| Pipe joint                                                                                                                                           |                                   |
| ② For main gas piping<br>                                           | 1 pc.                             |
| ③ For branch liquid piping<br>                                      | 1 pc.                             |
| ④ For branch gas piping<br>                                         | BPMK928B43<br>(For 3 rooms 3pcs.) |
|                                                                                                                                                      | BPMK928B42<br>(For 2 rooms 2pcs.) |

|                                                                                    |        |
|------------------------------------------------------------------------------------|--------|
| ⑤ Wire clamp                                                                       |        |
|  | 1 pc.  |
| ⑥ Insulator                                                                        |        |
|  | 1 pc.  |
| ⑦ Hanger metal                                                                     |        |
|  | 4 pcs. |
| ⑧ Screws                                                                           |        |
|  | 12pcs. |

#### Items to be prepared in the field

- Connecting wires (H05VV, 4 wires, 1.6mm or 2.0mm)
- Installation parts (hanging bolts: 4 x M10 or M8; nuts: 12; flat washers: 8)
- Screws for wall-mounting: 6 x M5
- Heat insulating cylinder (joint) [Thermal conductivity: 0.041 - 0.052 W/mK (0.035 - 0.045 kcal/mh°C) or more / thickness 13mm (1/2 inch) or more / Heat resistance: 100°C or higher (Only heat pump system)]
- Aluminium tape



# 10 Accessories

## 10-2 Optional accessories

### RMX140JZ

| Option name                             |                | Kit name   |
|-----------------------------------------|----------------|------------|
| Central drain plug                      |                | KKPJ5F180  |
| Fixture for preventing overturning      |                | KPTJ60F160 |
| Wire fixture for preventing overturning |                | K-KBPA1    |
| Auxiliary piping                        | For front/side | KHFJ5F180F |
|                                         | For rear       | KHFJ5F180B |

### Refnet joint

| Option name  | Kit name   |
|--------------|------------|
| Refnet joint | KHRJ928A4T |

|                  |            |  |  |  |                                  |
|------------------|------------|--|--|--|----------------------------------|
| Super multi plus | KHRJ928A4T |  |  |  | Insulator<br>Installation manual |
|                  |            |  |  |  |                                  |

### BP Units

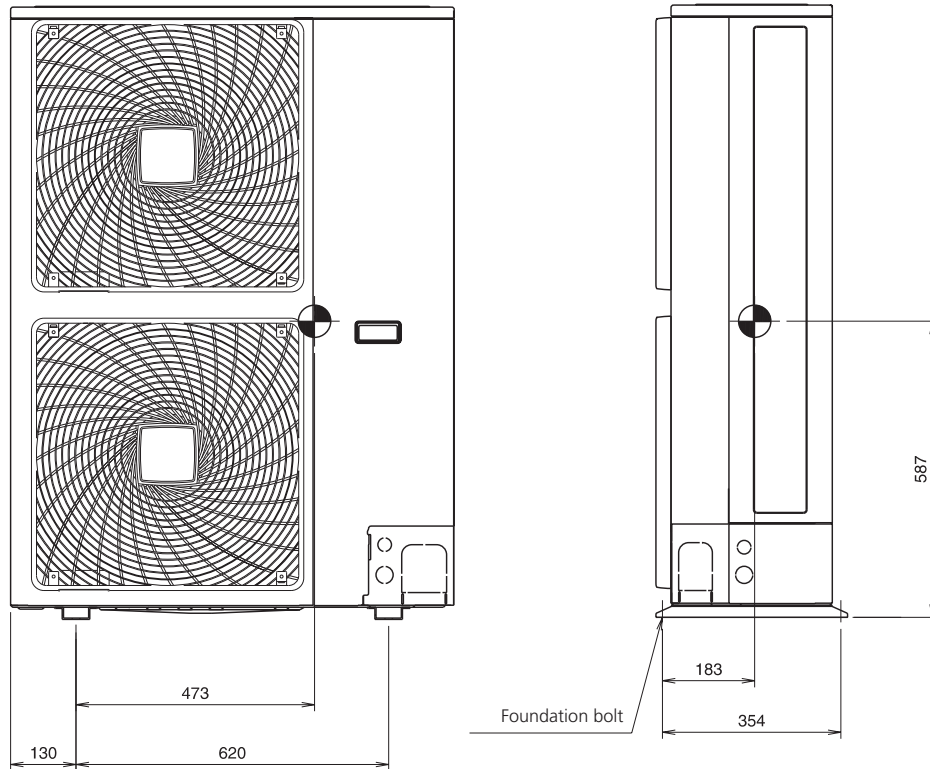
| Accessories | Installation manual | pc. | 1                   |        |                          |
|-------------|---------------------|-----|---------------------|--------|--------------------------|
|             | L Shape reducer     | pc. | For main gas piping |        | 1                        |
|             |                     |     | For branch          | Gas    | 3 (φ15.9 / φ12.7 / φ9.5) |
|             |                     |     |                     | Liquid | 1 (φ9.5)                 |



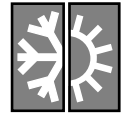
# 11 Centre of gravity

11

RMX140JZ



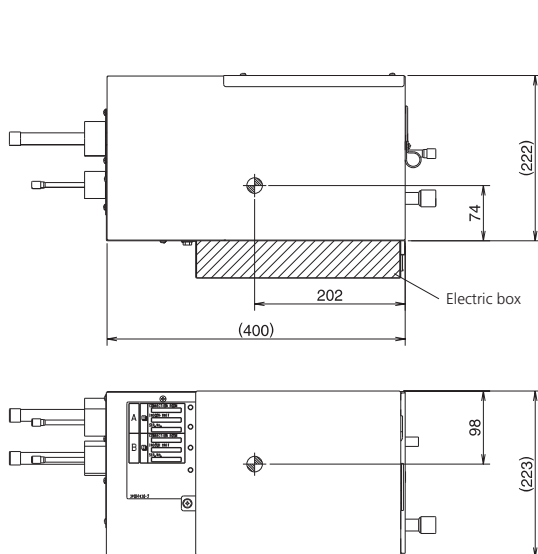
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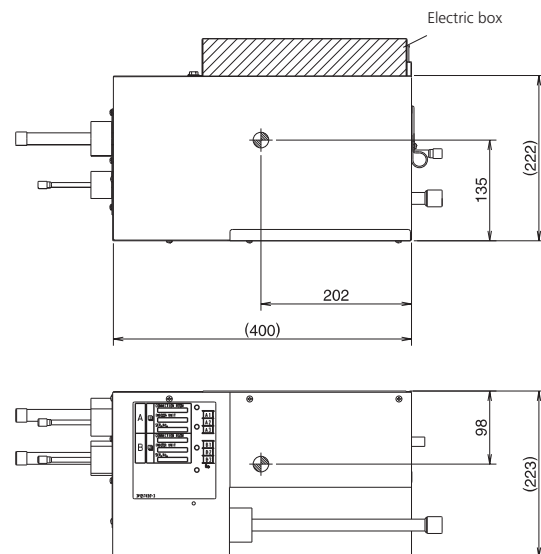
# 11 Centre of gravity

11

## BPMK928B42



Setting for shipment

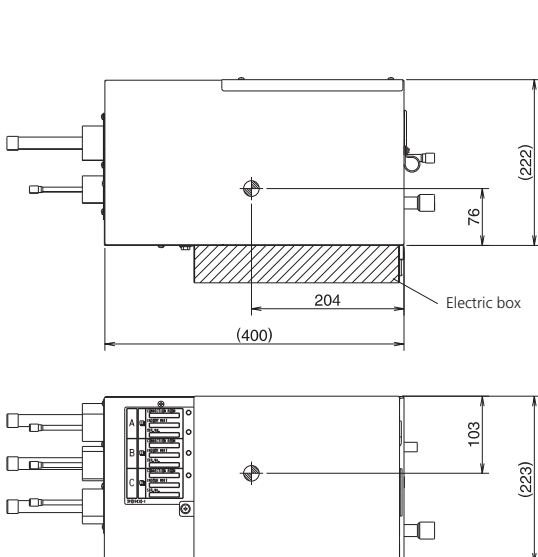


When the electric box is attached to the other side

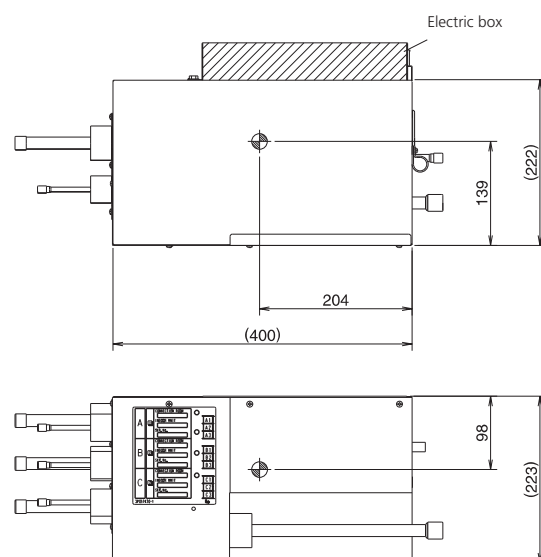
The center of gravity shifts with the location of the electric box

3D024948A

## BPMK928B43



Setting for shipment



When the electric box is attached to the other side

The center of gravity shifts with the location of the electric box

3D024865A

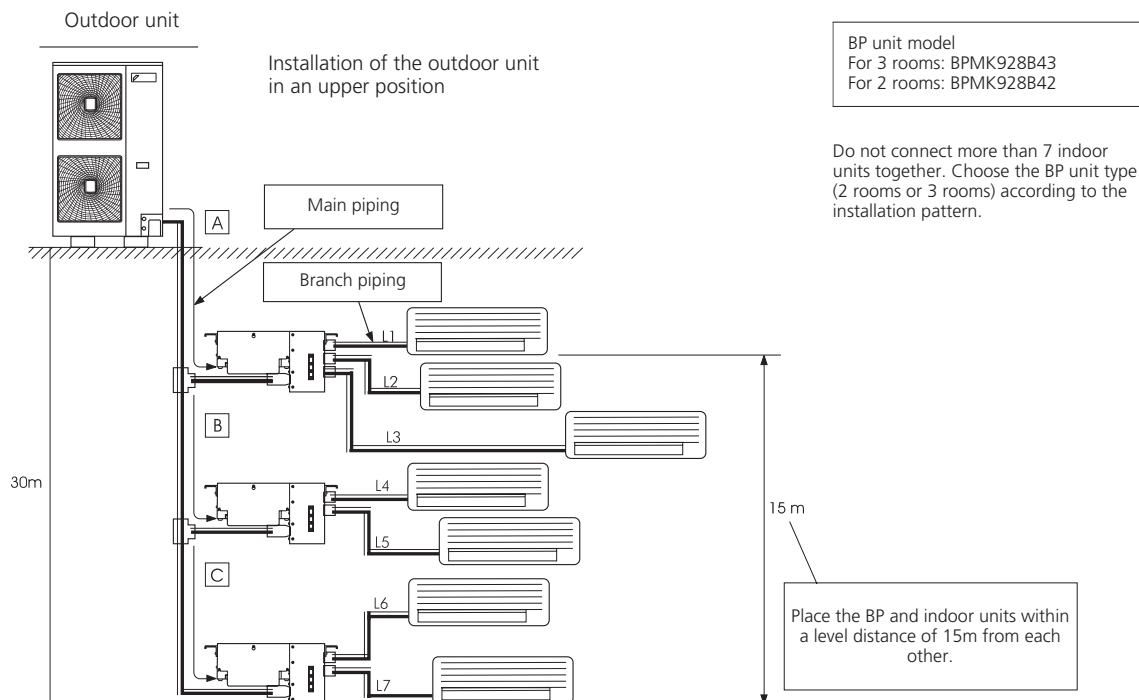


# 12 Installation

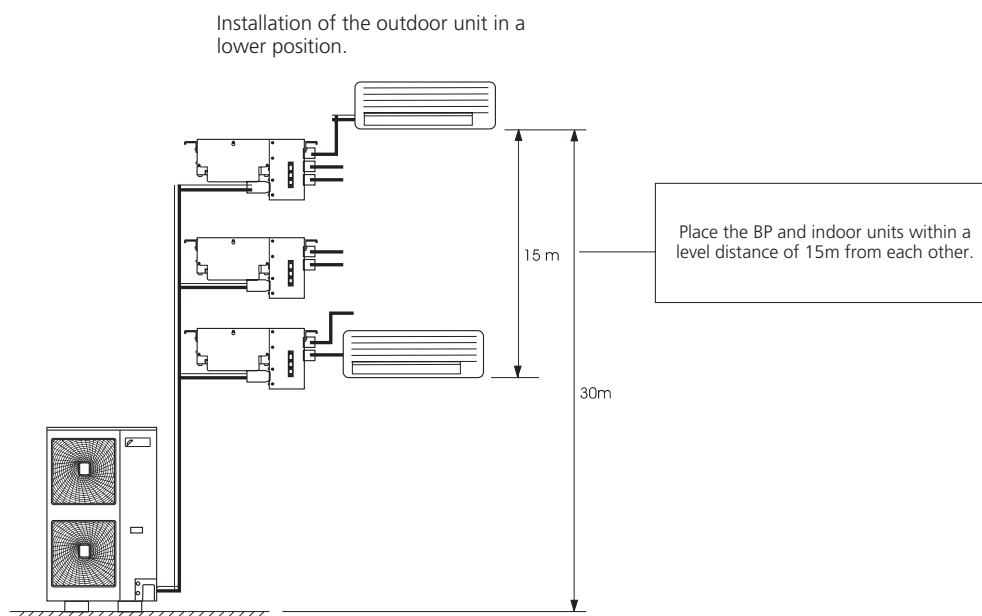
## 12 RMX140JZ

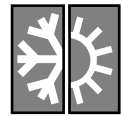
### The maximum allowable level and piping length

Check the manual for installation that comes with outdoor units



- Total main piping length : **55m** (A + B + C)
- Total branch piping length : **60m** (L1+L2+L3+L4+L5+L6+L7)
- Each branch piping length : **15m** (L1,L2,L3,L4,L5,L6,L7)
- Total system piping length : 115m (55+60)

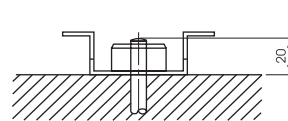




# 12 Installation

## Main body installation (cautions for installation)

1. Check the strength and level of the foundation so that the air conditioner works without vibration or noise.
2. Fix the unit rigidly to the foundation with the foundation bolts as shown in the drawing at right.
  - Prepare 4 sets of M12 foundation bolts, nuts and washers available in the market
  - The projection of the foundation bolts should be 20 mm.

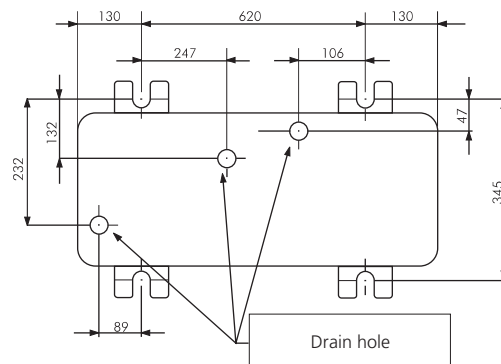


Installation method of fitting for prevention of overturning

- If overturning prevention is required, use the optional overturning prevention kit.

Drain pipe disposal

- If drain pipe disposal from the outdoor unit causes trouble, provide the drain piping by using of the drain socket (optional).

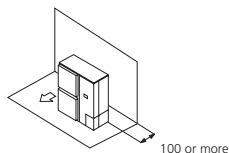


## Installation service space

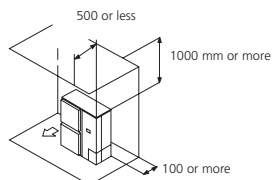
The horizontal coupling and stacking are not allowed.

### (A) Where there is an obstacle on the suction side

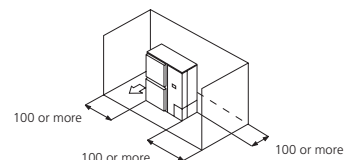
- No obstacle above  
Obstacle on the suction side only



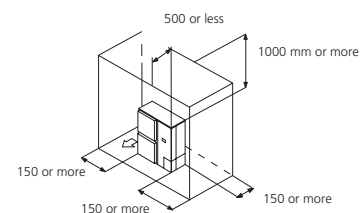
- Obstacle above,  
Obstacle on the suction side,



- Obstacle on both sides

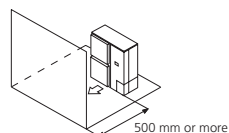


- Obstacle on the suction side and both sides

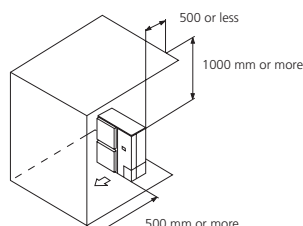


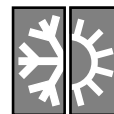
### (B) Where there is an obstacle on the discharge side

- No obstacle above



- Obstacle above,





# 12 Installation

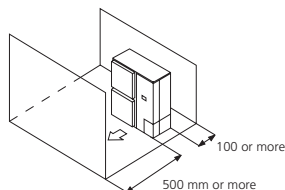
## 12

### (C) Where there are obstacles on both suction and discharge sides

#### Pattern 1

Where the obstacles on the discharge side is higher than the unit

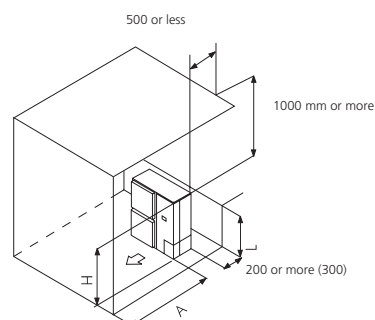
- No obstacle above



- Obstacle above,  
No obstacle above

|            | L                             | A    |
|------------|-------------------------------|------|
| $L \leq H$ | $0 < L \leq 1/2 H$            | 750  |
|            | $1/2 H < L$                   | 1000 |
| $H < L$    | Set the stand as : $L \leq H$ |      |

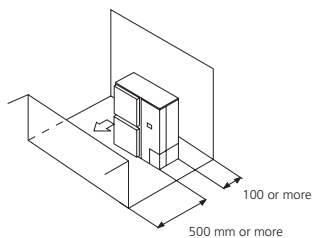
Close the bottom of the installation frame to prevent the discharged air from being bypassed.



#### Pattern 2

Where the obstacles on the discharge side is higher than the unit

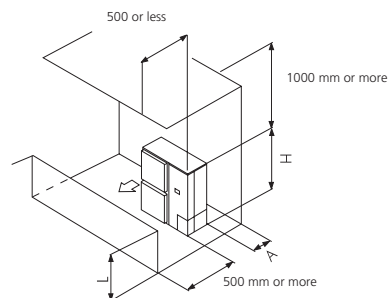
- No obstacle above



- Obstacle above,  
No obstacle above

|            | L                             | A   |
|------------|-------------------------------|-----|
| $L \leq H$ | $0 < L \leq 1/2 H$            | 100 |
|            | $1/2 H < L$                   | 200 |
| $H < L$    | Set the stand as : $L \leq H$ |     |

Close the bottom of the installation frame to prevent the discharged air from being bypassed.



### (D) Multiple rows of series installation (on the rooftop, etc.)

