

Air Conditioning  
Technical Data

**RZAG-NV1**





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## RZAG-NV1

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# 1 Features

Industry leading technology in the most compact casing ever

- Unique, low-height single fan range
- Compact dimensions allow almost unnoticeable installation
- Marketing-leading serviceability and handling thanks to unique hinged door, 7-segment display and additional handle
- Top efficiency: - Energy labels up to A++ in both cooling and heating - compressor offers substantial efficiency improvements
- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has a lower refrigerant charge
- The perfect balance in efficiency and comfort thanks to Variable Refrigerant Temperature: top seasonal efficiency throughout most of the year and quick reaction speed on the hottest days.
- Suits high sensible, infrastructure cooling applications
- Replace existing systems with R-32 technology without needing to replace the piping
- Guarantees operation in both heating and cooling mode down to -20°C
- Refrigerant cooled PCB guarantees reliable cooling, as it is not influenced by ambient temperature.
- Maximum piping length up to 85m
- Outdoor units for pair, twin, triple, double twin application



Infrastructure cooling



Inverter



Auto cooling-heating changeover

## 2 Specifications

| 2-1 Capacity and Power input       |                                                   |                                   |       | FCAHG71H/RZAG71NV1 | FCAHG100H/<br>RZAG100NV1 | FCAHG125H/<br>RZAG125NV1 | FCAHG140H/<br>RZAG140NV1 |  |
|------------------------------------|---------------------------------------------------|-----------------------------------|-------|--------------------|--------------------------|--------------------------|--------------------------|--|
| Cooling capacity                   | Nom.                                              |                                   | kW    | 6.80 (1)           | 9.50 (1)                 | 12.1 (1)                 | 13.4 (1)                 |  |
| Heating capacity                   | Nom.                                              |                                   | kW    | 7.50 (2)           | 10.8 (2)                 | 13.5 (2)                 | 15.5 (2)                 |  |
| Space cooling                      | Energy efficiency class                           |                                   |       | A++                |                          | -                        |                          |  |
|                                    | Capacity                                          | Pdesign                           | kW    | 6.80               | 9.50                     | 12.1                     | 13.4                     |  |
|                                    | SEER                                              |                                   |       | 7.90               | 7.70                     | 8.02                     | 7.93                     |  |
|                                    | ηs,c                                              |                                   | %     | -                  |                          | 318                      | 314                      |  |
|                                    | Annual energy consumption                         |                                   | kWh/a | 301                | 432                      | 905                      | 1,014                    |  |
|                                    | A Condition (35°C - 27/19)                        | Pdc                               | kW    | 6.80               | 9.50                     | 12.10                    | 13.40                    |  |
|                                    |                                                   | EERd                              |       | 4.13               | 4.23                     | 3.84                     | 3.68                     |  |
|                                    |                                                   | Power input                       | kW    | 1.65               | 2.25                     | 3.15                     | 3.64                     |  |
|                                    | B Condition (30°C - 27/19)                        | Pdc                               | kW    | 5.01               | 7.00                     | 8.92                     | 9.88                     |  |
|                                    |                                                   | EERd                              |       | 5.96               | 6.14                     | 5.81                     | 5.77                     |  |
|                                    |                                                   | Power input                       | kW    | 0.84               | 1.14                     | 1.54                     | 1.71                     |  |
|                                    | C Condition (25°C - 27/19)                        | Pdc                               | kW    | 3.22               | 4.50                     | 5.74                     | 6.35                     |  |
|                                    |                                                   | EERd                              |       | 10.2               | 9.32                     | 9.63                     | 9.37                     |  |
|                                    |                                                   | Power input                       | kW    | 0.32               | 0.48                     | 0.60                     | 0.68                     |  |
|                                    | D Condition (20°C - 27/19)                        | Pdc                               | kW    | 2.64               | 3.71                     | 3.61                     |                          |  |
| EERd                               |                                                   | 14.60                             | 12.87 | 13.99              | 14.07                    |                          |                          |  |
| Power input                        |                                                   | kW                                | 0.18  | 0.29               | 0.26                     |                          |                          |  |
| Space heating<br>(Average climate) | Energy efficiency class                           |                                   |       | A++                |                          | -                        |                          |  |
|                                    | Capacity                                          | Pdesign                           | kW    | 4.70               | 9.52                     |                          |                          |  |
|                                    | SCOP/A                                            |                                   |       | 4.61               | 4.75                     | 4.53                     | 4.44                     |  |
|                                    | SCOPnet/A                                         |                                   |       | 4.61               | 4.75                     | 4.53                     | 4.44                     |  |
|                                    | ηs,h                                              |                                   | %     | -                  |                          | 178                      | 175                      |  |
|                                    | Annual energy consumption                         |                                   | kWh/a | 1,427              | 2,805                    | 2,943                    | 3,002                    |  |
|                                    | Required back up heating cap at design conditions |                                   | kW    | 0.00               |                          |                          |                          |  |
|                                    | TOL                                               | Tol (temperature operating limit) | °C    | -10                |                          |                          |                          |  |
|                                    |                                                   | Pdh (declared heating cap)        | kW    | 4.70               | 9.52                     |                          |                          |  |
|                                    |                                                   | COPd (declared COP)               |       | 2.97               | 2.79                     | 2.22                     | 2.23                     |  |
|                                    |                                                   | Power input                       | kW    | 1.58               | 3.42                     | 4.29                     | 4.27                     |  |
|                                    | TBivalent                                         | Tbiv (bivalent temperature)       | °C    | -10                |                          |                          |                          |  |
|                                    |                                                   | Pdh (declared heating cap)        | kW    | 4.70               | 9.52                     |                          |                          |  |
|                                    |                                                   | COPd (declared COP)               |       | 2.97               | 2.79                     | 2.22                     | 2.23                     |  |
|                                    |                                                   | Power input                       | kW    | 1.58               | 3.42                     | 4.29                     | 4.27                     |  |
|                                    | A Condition (-7°C)                                | Pdh (declared heating cap)        | kW    | 4.16               | 8.42                     |                          |                          |  |
|                                    |                                                   | COPd (declared COP)               |       | 3.32               | 3.14                     | 2.84                     | 2.80                     |  |
|                                    |                                                   | Power input                       | kW    | 1.25               | 2.69                     | 2.97                     | 3.01                     |  |
|                                    | B Condition (2°C)                                 | Pdh (declared heating cap)        | kW    | 2.53               | 5.13                     |                          |                          |  |
|                                    |                                                   | COPd (declared COP)               |       | 4.57               | 4.79                     | 4.58                     | 4.42                     |  |
|                                    |                                                   | Power input                       | kW    | 0.55               | 1.07                     | 1.12                     | 1.16                     |  |
|                                    | C Condition (7°C)                                 | Pdh (declared heating cap)        | kW    | 1.79               | 3.30                     |                          |                          |  |
|                                    |                                                   | COPd (declared COP)               |       | 5.48               | 5.81                     | 5.79                     | 5.78                     |  |
|                                    |                                                   | Power input                       | kW    | 0.33               | 0.57                     |                          |                          |  |
|                                    | D Condition (12°C)                                | Pdh (declared heating cap)        | kW    | 2.01               | 2.58                     | 2.60                     |                          |  |
|                                    |                                                   | COPd (declared COP)               |       | 7.02               | 6.86                     | 6.62                     | 6.60                     |  |
|                                    |                                                   | Power input                       | kW    | 0.29               | 0.38                     | 0.39                     |                          |  |
| Cooling                            | Cdc (Degradation cooling)                         |                                   |       | 0.25               |                          |                          |                          |  |
| Heating                            | Cdh (Degradation heating)                         |                                   |       | 0.25               |                          |                          |                          |  |
| Cooling function included          |                                                   |                                   |       | Yes                |                          |                          |                          |  |
| Heating function included          |                                                   |                                   |       | Yes                |                          |                          |                          |  |

## 2 Specifications

| 2-1 Capacity and Power input                                                        |                     |         |      |    | FCAHG71H/RZAG71NV1 | FCAHG100H/<br>RZAG100NV1 | FCAHG125H/<br>RZAG125NV1 | FCAHG140H/<br>RZAG140NV1 |
|-------------------------------------------------------------------------------------|---------------------|---------|------|----|--------------------|--------------------------|--------------------------|--------------------------|
| Average climate included                                                            |                     |         |      |    | Yes                |                          |                          |                          |
| Cold season included                                                                |                     |         |      |    | No                 |                          |                          |                          |
| Warm season included                                                                |                     |         |      |    | No                 |                          |                          |                          |
| Power consumption in other than active mode                                         | Off mode            | Cooling | POFF | kW | 0.009              |                          |                          |                          |
|                                                                                     |                     | Heating | POFF | kW | 0.009              |                          |                          |                          |
|                                                                                     | Standby mode        | Cooling | PSB  | kW | 0.009              |                          |                          |                          |
|                                                                                     |                     | Heating | PSB  | kW | 0.009              |                          |                          |                          |
|                                                                                     | Thermostat-off mode | Cooling | PTO  | kW | 0.005              |                          |                          |                          |
|                                                                                     |                     | Heating | PTO  | kW | 0.013              |                          |                          |                          |
| Indication if the heater is equipped with a supplementary heater (pair application) |                     |         |      |    | No                 |                          |                          |                          |
| Supplementary heater (pair application)                                             | Back-up capacity    | Heating | elbu | kW | 0.0                |                          |                          |                          |

### Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. Data for standard efficiency series

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

| 2-2 Capacity and Power input |                            |             |    | FCAHG71B/RZAG71NV1 | FCAHG100B/RZAG100NV1 | FCAHG125B/RZAG125NV1 | FCAHG140B/RZAG140NV1 |
|------------------------------|----------------------------|-------------|----|--------------------|----------------------|----------------------|----------------------|
| Cooling capacity             | Nom.                       | kW          |    | 6.80 (1)           | 9.50 (1)             | 12.1 (1)             | 13.4 (1)             |
| Heating capacity             | Nom.                       | kW          |    | 7.50 (2)           | 10.8 (2)             | 13.5 (2)             | 15.5 (2)             |
| Space cooling                | Energy efficiency class    |             |    | A++                |                      | -                    |                      |
|                              | Capacity                   | Pdesign     | kW | 6.80               | 9.50                 | 12.1                 | 13.4                 |
|                              | SEER                       |             |    | 6.83               | 7.14                 | 7.15                 | 6.80                 |
|                              | ηs,c                       |             |    | -                  |                      | 283                  | 269                  |
|                              | Annual energy consumption  |             |    | 348                | 466                  | 1,016                | 1,182                |
|                              | A Condition (35°C - 27/19) | Pdc         | kW | 6.80               | 9.50                 | 12.10                | 13.40                |
|                              |                            | EERd        |    | 3.54               | 3.59                 | 3.32                 | 3.12                 |
|                              |                            | Power input | kW | 1.92               | 2.65                 | 3.65                 | 4.29                 |
|                              | B Condition (30°C - 27/19) | Pdc         | kW | 5.03               | 7.03                 | 8.92                 | 9.88                 |
|                              |                            | EERd        |    | 5.43               | 5.83                 | 5.65                 | 4.47                 |
|                              |                            | Power input | kW | 0.93               | 1.21                 | 1.58                 | 2.21                 |
|                              | C Condition (25°C - 27/19) | Pdc         | kW | 3.20               | 4.46                 | 5.74                 | 6.35                 |
|                              |                            | EERd        |    | 8.32               | 8.18                 | 7.87                 | 8.17                 |
|                              |                            | Power input | kW | 0.38               | 0.55                 | 0.73                 | 0.78                 |
|                              | D Condition (20°C - 27/19) | Pdc         | kW | 2.40               | 3.31                 | 3.25                 | 3.32                 |
|                              |                            | EERd        |    | 12.31              | 13.03                | 12.77                | 13.55                |
|                              |                            | Power input | kW | 0.20               | 0.25                 |                      |                      |

## 2 Specifications

| 2-2 Capacity and Power input                                                        |                                                   |                                   |       |       | FCAG71B/RZAG71NV1 | FCAG100B/RZAG100NV1 | FCAG125B/RZAG125NV1 | FCAG140B/RZAG140NV1 |  |
|-------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------|-------|-------|-------------------|---------------------|---------------------|---------------------|--|
| Space heating<br>(Average climate)                                                  | Energy efficiency class                           |                                   |       |       | A+                |                     | -                   |                     |  |
|                                                                                     | Capacity                                          | Pdesign                           | kW    | 4.70  | 7.80              | 9.52                |                     |                     |  |
|                                                                                     | SCOP/A                                            |                                   |       | 4.22  | 4.53              | 4.34                |                     |                     |  |
|                                                                                     | SCOPnet/A                                         |                                   |       | 4.22  | 4.53              | 4.34                |                     |                     |  |
|                                                                                     | ηs,h                                              |                                   | %     | -     |                   | 171                 |                     |                     |  |
|                                                                                     | Annual energy consumption                         |                                   | kWh/a | 1,560 | 2,413             | 3,071               |                     |                     |  |
|                                                                                     | Required back up heating cap at design conditions |                                   | kW    | 0.00  |                   |                     |                     |                     |  |
|                                                                                     | TOL                                               | Tol (temperature operating limit) | °C    | -10   |                   |                     |                     |                     |  |
|                                                                                     |                                                   | Pdh (declared heating cap)        | kW    | 4.70  | 7.80              | 9.52                |                     |                     |  |
|                                                                                     |                                                   | COPd (declared COP)               |       | 2.54  | 2.51              | 1.91                | 1.93                |                     |  |
|                                                                                     |                                                   | Power input                       | kW    | 1.85  | 3.11              | 4.98                | 4.93                |                     |  |
|                                                                                     | TBivalent                                         | Tbiv (bivalent temperature)       | °C    | -10.0 |                   |                     |                     |                     |  |
|                                                                                     |                                                   | Pdh (declared heating cap)        | kW    | 4.70  | 7.80              | 9.52                |                     |                     |  |
|                                                                                     |                                                   | COPd (declared COP)               |       | 2.54  | 2.51              | 1.91                | 1.93                |                     |  |
|                                                                                     |                                                   | Power input                       | kW    | 1.85  | 3.11              | 4.98                | 4.93                |                     |  |
|                                                                                     | A Condition (-7°C)                                | Pdh (declared heating cap)        | kW    | 4.13  | 6.86              | 8.43                | 8.42                |                     |  |
|                                                                                     |                                                   | COPd (declared COP)               |       | 2.96  | 2.87              | 2.59                | 2.52                |                     |  |
|                                                                                     |                                                   | Power input                       | kW    | 1.40  | 2.39              | 3.25                | 3.34                |                     |  |
|                                                                                     | B Condition (2°C)                                 | Pdh (declared heating cap)        | kW    | 2.54  | 4.21              | 5.12                |                     |                     |  |
|                                                                                     |                                                   | COPd (declared COP)               |       | 4.23  | 4.37              | 4.29                | 4.33                |                     |  |
|                                                                                     |                                                   | Power input                       | kW    | 0.60  | 0.96              | 1.20                | 1.18                |                     |  |
|                                                                                     | C Condition (7°C)                                 | Pdh (declared heating cap)        | kW    | 1.77  | 2.73              | 3.29                |                     |                     |  |
|                                                                                     |                                                   | COPd (declared COP)               |       | 5.11  | 6.01              | 5.92                |                     |                     |  |
|                                                                                     |                                                   | Power input                       | kW    | 0.35  | 0.45              | 0.56                |                     |                     |  |
|                                                                                     | D Condition (12°C)                                | Pdh (declared heating cap)        | kW    | 1.96  | 2.47              | 2.52                |                     |                     |  |
|                                                                                     |                                                   | COPd (declared COP)               |       | 6.01  | 7.75              | 6.94                |                     |                     |  |
|                                                                                     |                                                   | Power input                       | kW    | 0.33  | 0.32              | 0.36                |                     |                     |  |
|                                                                                     | Cooling                                           | Cdc (Degradation cooling)         |       |       |                   | 0.25                |                     |                     |  |
|                                                                                     | Heating                                           | Cdh (Degradation heating)         |       |       |                   | 0.25                |                     |                     |  |
| Cooling function included                                                           |                                                   |                                   |       |       | Yes               |                     |                     |                     |  |
| Heating function included                                                           |                                                   |                                   |       |       | Yes               |                     |                     |                     |  |
| Average climate included                                                            |                                                   |                                   |       |       | Yes               |                     |                     |                     |  |
| Cold season included                                                                |                                                   |                                   |       |       | No                |                     |                     |                     |  |
| Warm season included                                                                |                                                   |                                   |       |       | No                |                     |                     |                     |  |
| Power consumption in other than active mode                                         | Off mode                                          | Cooling                           | POFF  | kW    | 0.009             |                     |                     |                     |  |
|                                                                                     |                                                   | Heating                           | POFF  | kW    | 0.009             |                     |                     |                     |  |
|                                                                                     | Standby mode                                      | Cooling                           | PSB   | kW    | 0.009             |                     |                     |                     |  |
|                                                                                     |                                                   | Heating                           | PSB   | kW    | 0.009             |                     |                     |                     |  |
|                                                                                     | Thermostat-off mode                               | Cooling                           | PTO   | kW    | 0.005             |                     |                     |                     |  |
|                                                                                     |                                                   | Heating                           | PTO   | kW    | 0.013             |                     |                     |                     |  |
| Indication if the heater is equipped with a supplementary heater (pair application) |                                                   |                                   |       |       | No                |                     |                     |                     |  |
| Supplementary heater (pair application)                                             | Back-up capacity                                  | Heating                           | elbu  | kW    | 0.0               |                     |                     |                     |  |

### Notes

- (1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.
- (2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

## 2 Specifications

| 2-3 Capacity and Power input       |                                                   |                                   |                     | FBA71A9/RZAG71NV1 | FBA100A/RZAG100NV1 | FBA125A/RZAG125NV1 | FBA140A/RZAG140NV1 |      |
|------------------------------------|---------------------------------------------------|-----------------------------------|---------------------|-------------------|--------------------|--------------------|--------------------|------|
| Cooling capacity                   | Nom.                                              |                                   | kW                  | 6.80 (1)          | 9.50 (1)           | 12.1 (1)           | 13.4 (1)           |      |
| Heating capacity                   | Nom.                                              |                                   | kW                  | 7.50 (2)          | 10.8 (2)           | 13.5 (2)           | 15.5 (2)           |      |
| Space cooling                      | Energy efficiency class                           |                                   |                     | A++               |                    | -                  |                    |      |
|                                    | Capacity                                          | Pdesign                           | kW                  | 6.80              | 9.50               | 12.1               | 13.4               |      |
|                                    | SEER                                              |                                   |                     | 6.22              | 6.47               | 6.19               | 6.42               |      |
|                                    | ηs,c                                              |                                   | %                   | -                 |                    | 245                | 254                |      |
|                                    | Annual energy consumption                         |                                   | kWh/a               | 382               | 514                | 1,173              | 1,252              |      |
|                                    | A Condition (35°C - 27/19)                        | Pdc                               | kW                  | 6.80              | 9.50               | 12.10              | 13.40              |      |
|                                    |                                                   | EERd                              |                     | 3.40              | 3.69               | 2.91               | 2.86               |      |
|                                    |                                                   | Power input                       | kW                  | 2.00              | 2.58               | 4.15               | 4.69               |      |
|                                    | B Condition (30°C - 27/19)                        | Pdc                               | kW                  | 5.03              | 7.03               | 8.92               | 9.88               |      |
|                                    |                                                   | EERd                              |                     | 4.81              | 4.92               | 4.70               | 4.64               |      |
|                                    |                                                   | Power input                       | kW                  | 1.05              | 1.43               | 1.90               | 2.13               |      |
|                                    | C Condition (25°C - 27/19)                        | Pdc                               | kW                  | 3.20              | 4.46               | 5.74               | 6.35               |      |
|                                    |                                                   | EERd                              |                     | 7.53              | 7.80               | 7.08               | 7.47               |      |
|                                    |                                                   | Power input                       | kW                  | 0.42              | 0.57               | 0.81               | 0.85               |      |
|                                    | D Condition (20°C - 27/19)                        | Pdc                               | kW                  | 2.44              | 3.33               | 3.34               | 3.50               |      |
| EERd                               |                                                   | 11.76                             | 11.22               | 10.92             | 12.13              |                    |                    |      |
| Power input                        |                                                   | kW                                | 0.21                | 0.30              | 0.31               | 0.29               |                    |      |
| Space heating<br>(Average climate) | Energy efficiency class                           |                                   |                     | A+                |                    | -                  |                    |      |
|                                    | Capacity                                          | Pdesign                           | kW                  | 4.70              | 7.80               | 9.52               |                    |      |
|                                    | SCOP/A                                            |                                   |                     | 4.20              | 4.36               | 4.12               | 4.11               |      |
|                                    | SCOPnet/A                                         |                                   |                     | 4.20              | 4.36               | 4.12               | 4.11               |      |
|                                    | ηs,h                                              |                                   | %                   | -                 |                    | 162                | 161                |      |
|                                    | Annual energy consumption                         |                                   | kWh/a               | 1,566             | 2,505              | 3,235              | 3,243              |      |
|                                    | Required back up heating cap at design conditions |                                   | kW                  | 0.00              |                    |                    |                    |      |
|                                    | TOL                                               | Tol (temperature operating limit) | °C                  | -10               |                    |                    |                    |      |
|                                    |                                                   |                                   | kW                  | 4.70              | 7.80               | 9.52               |                    |      |
|                                    |                                                   |                                   | COPd (declared COP) |                   | 2.50               | 2.46               | 1.86               | 1.90 |
|                                    |                                                   |                                   | Power input         | kW                | 1.88               | 3.17               | 5.12               | 5.00 |
|                                    | TBivalent                                         | Tbiv (bivalent temperature)       | °C                  | -10.0             |                    |                    |                    |      |
|                                    |                                                   |                                   | kW                  | 4.70              | 7.80               | 9.52               |                    |      |
|                                    |                                                   |                                   | COPd (declared COP) |                   | 2.50               | 2.46               | 1.86               | 1.90 |
|                                    |                                                   |                                   | Power input         | kW                | 1.88               | 3.17               | 5.12               | 5.00 |
|                                    | A Condition (-7°C)                                | Pdh (declared heating cap)        | kW                  | 4.14              | 6.87               | 8.42               | 8.43               |      |
|                                    |                                                   |                                   | COPd (declared COP) |                   | 2.92               | 2.82               | 2.52               | 2.45 |
|                                    |                                                   |                                   | Power input         | kW                | 1.42               | 2.43               | 3.34               | 3.44 |
|                                    | B Condition (2°C)                                 | Pdh (declared heating cap)        | kW                  | 2.54              | 4.21               | 5.12               |                    |      |
|                                    |                                                   |                                   | COPd (declared COP) |                   | 4.21               | 4.33               | 4.12               | 4.09 |
|                                    |                                                   |                                   | Power input         | kW                | 0.60               | 0.97               | 1.24               | 1.25 |
|                                    | C Condition (7°C)                                 | Pdh (declared heating cap)        | kW                  | 1.76              | 2.73               | 3.29               |                    |      |
|                                    |                                                   |                                   | COPd (declared COP) |                   | 5.12               | 5.47               | 5.43               | 5.52 |
|                                    |                                                   |                                   | Power input         | kW                | 0.34               | 0.50               | 0.61               | 0.60 |
|                                    | D Condition (12°C)                                | Pdh (declared heating cap)        | kW                  | 1.96              | 2.51               | 2.55               | 2.56               |      |
|                                    |                                                   |                                   | COPd (declared COP) |                   | 6.12               | 6.91               | 6.35               | 6.49 |
|                                    |                                                   |                                   | Power input         | kW                | 0.32               | 0.36               | 0.40               | 0.39 |
| Cooling                            | Cdc (Degradation cooling)                         |                                   |                     | 0.25              |                    |                    |                    |      |
| Heating                            | Cdh (Degradation heating)                         |                                   |                     | 0.25              |                    |                    |                    |      |
| Cooling function included          |                                                   |                                   |                     | Yes               |                    |                    |                    |      |
| Heating function included          |                                                   |                                   |                     | Yes               |                    |                    |                    |      |
| Average climate included           |                                                   |                                   |                     | Yes               |                    |                    |                    |      |

## 2 Specifications

| 2-3 Capacity and Power input                                                        |                     |         |      |    | FBA71A9/RZAG71NV1 | FBA100A/RZAG100NV1 | FBA125A/RZAG125NV1 | FBA140A/RZAG140NV1 |
|-------------------------------------------------------------------------------------|---------------------|---------|------|----|-------------------|--------------------|--------------------|--------------------|
| Cold season included                                                                |                     |         |      |    | No                |                    |                    |                    |
| Warm season included                                                                |                     |         |      |    | No                |                    |                    |                    |
| Power consumption in other than active mode                                         | Off mode            | Cooling | POFF | kW | 0.011             |                    |                    |                    |
|                                                                                     |                     | Heating | POFF | kW | 0.011             |                    |                    |                    |
|                                                                                     | Standby mode        | Cooling | PSB  | kW | 0.011             |                    |                    |                    |
|                                                                                     |                     | Heating | PSB  | kW | 0.011             |                    |                    |                    |
|                                                                                     | Thermostat-off mode | Cooling | PTO  | kW | 0.005             |                    |                    |                    |
|                                                                                     |                     | Heating | PTO  | kW | 0.015             |                    |                    |                    |
| Indication if the heater is equipped with a supplementary heater (pair application) |                     |         |      |    | No                |                    |                    |                    |
| Supplementary heater (pair application)                                             | Back-up capacity    | Heating | elbu | kW | 0.0               |                    |                    |                    |

### Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

| 2-4 Capacity and Power input |                            |             |       | FDA125A/RZAG125NV1 |
|------------------------------|----------------------------|-------------|-------|--------------------|
| Cooling capacity             | Nom.                       |             | kW    | 12.1 (1)           |
| Heating capacity             | Nom.                       |             | kW    | 13.5 (2)           |
| Space cooling                | Capacity                   | Pdesign     | kW    | 12.1               |
|                              | SEER                       |             |       | 6.59               |
|                              | ηs,c                       |             | %     | 261                |
|                              | Annual energy consumption  |             | kWh/a | 1,102              |
|                              | A Condition (35°C - 27/19) | Pdc         | kW    | 12.10              |
|                              |                            | EERd        |       | 3.25               |
|                              |                            | Power input | kW    | 3.73               |
|                              | B Condition (30°C - 27/19) | Pdc         | kW    | 8.92               |
|                              |                            | EERd        |       | 4.99               |
|                              |                            | Power input | kW    | 1.79               |
|                              | C Condition (25°C - 27/19) | Pdc         | kW    | 5.73               |
|                              |                            | EERd        |       | 7.67               |
|                              |                            | Power input | kW    | 0.75               |
|                              | D Condition (20°C - 27/19) | Pdc         | kW    | 3.34               |
|                              |                            | EERd        |       | 11.04              |
|                              |                            | Power input | kW    | 0.30               |

## 2 Specifications

| 2-4 Capacity and Power input                                                        |                                                   |                                         |                                        |    | FDA125A/RZAG125NV1 |      |      |  |
|-------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------------|----------------------------------------|----|--------------------|------|------|--|
| Space heating<br>(Average climate)                                                  | Capacity                                          | Pdesign                                 | kW                                     |    | 9.52               |      |      |  |
|                                                                                     | SCOP/A                                            |                                         |                                        |    | 4.08               |      |      |  |
|                                                                                     | SCOPnet/A                                         |                                         |                                        |    | 4.08               |      |      |  |
|                                                                                     | ηs,h                                              |                                         | %                                      |    | 160                |      |      |  |
|                                                                                     | Annual energy consumption                         |                                         | kWh/a                                  |    | 3,267              |      |      |  |
|                                                                                     | Required back up heating cap at design conditions |                                         | kW                                     |    | 0.00               |      |      |  |
|                                                                                     | TOL                                               | Tol (temperature operating limit)       | °C                                     |    | -10                |      |      |  |
|                                                                                     |                                                   |                                         | Pd <sub>h</sub> (declared heating cap) |    | kW                 |      | 9.52 |  |
|                                                                                     |                                                   |                                         | COP <sub>d</sub> (declared COP)        |    |                    |      | 1.87 |  |
|                                                                                     |                                                   |                                         | Power input                            |    | kW                 |      | 5.10 |  |
|                                                                                     | TBivalent                                         | T <sub>biv</sub> (bivalent temperature) | °C                                     |    | -10                |      |      |  |
|                                                                                     |                                                   |                                         | Pd <sub>h</sub> (declared heating cap) |    | kW                 |      | 9.52 |  |
|                                                                                     |                                                   |                                         | COP <sub>d</sub> (declared COP)        |    |                    |      | 1.87 |  |
|                                                                                     |                                                   |                                         | Power input                            |    | kW                 |      | 5.10 |  |
|                                                                                     | A Condition (-7°C)                                | Pd <sub>h</sub> (declared heating cap)  | kW                                     |    | 8.42               |      |      |  |
|                                                                                     |                                                   |                                         | COP <sub>d</sub> (declared COP)        |    |                    |      | 2.52 |  |
|                                                                                     |                                                   |                                         | Power input                            |    | kW                 |      | 3.34 |  |
|                                                                                     | B Condition (2°C)                                 | Pd <sub>h</sub> (declared heating cap)  | kW                                     |    | 5.12               |      |      |  |
|                                                                                     |                                                   |                                         | COP <sub>d</sub> (declared COP)        |    |                    |      | 4.06 |  |
|                                                                                     |                                                   |                                         | Power input                            |    | kW                 |      | 1.26 |  |
|                                                                                     | C Condition (7°C)                                 | Pd <sub>h</sub> (declared heating cap)  | kW                                     |    | 3.29               |      |      |  |
|                                                                                     |                                                   |                                         | COP <sub>d</sub> (declared COP)        |    |                    |      | 5.37 |  |
|                                                                                     |                                                   |                                         | Power input                            |    | kW                 |      | 0.61 |  |
|                                                                                     | D Condition (12°C)                                | Pd <sub>h</sub> (declared heating cap)  | kW                                     |    | 2.58               |      |      |  |
|                                                                                     |                                                   |                                         | COP <sub>d</sub> (declared COP)        |    |                    |      | 6.27 |  |
|                                                                                     |                                                   |                                         | Power input                            |    | kW                 |      | 0.41 |  |
|                                                                                     | Cooling                                           | C <sub>dc</sub> (Degradation cooling)   |                                        |    |                    | 0.25 |      |  |
| Heating                                                                             | C <sub>dh</sub> (Degradation heating)             |                                         |                                        |    | 0.25               |      |      |  |
| Cooling function included                                                           |                                                   |                                         |                                        |    | Yes                |      |      |  |
| Heating function included                                                           |                                                   |                                         |                                        |    | Yes                |      |      |  |
| Average climate included                                                            |                                                   |                                         |                                        |    | Yes                |      |      |  |
| Cold season included                                                                |                                                   |                                         |                                        |    | No                 |      |      |  |
| Warm season included                                                                |                                                   |                                         |                                        |    | No                 |      |      |  |
| Power consumption in other than active mode                                         | Off mode                                          | Cooling                                 | POFF                                   | kW | 0.012              |      |      |  |
|                                                                                     |                                                   | Heating                                 | POFF                                   | kW | 0.012              |      |      |  |
|                                                                                     | Standby mode                                      | Cooling                                 | PSB                                    | kW | 0.012              |      |      |  |
|                                                                                     |                                                   | Heating                                 | PSB                                    | kW | 0.012              |      |      |  |
|                                                                                     | Thermostat-off mode                               | Cooling                                 | PTO                                    | kW | 0.005              |      |      |  |
|                                                                                     |                                                   | Heating                                 | PTO                                    | kW | 0.016              |      |      |  |
| Indication if the heater is equipped with a supplementary heater (pair application) |                                                   |                                         |                                        |    | No                 |      |      |  |
| Supplementary heater (pair application)                                             | Back-up capacity                                  | Heating                                 | elbu                                   | kW | 0.0                |      |      |  |

### Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

## 2 Specifications

| 2-5 Capacity and Power input       |                                                   |                                   |       | FAA71A/RZAG71NV1 |      | FAA100A/RZAG100NV1 |  |  |
|------------------------------------|---------------------------------------------------|-----------------------------------|-------|------------------|------|--------------------|--|--|
| Cooling capacity                   | Nom.                                              |                                   | kW    | 6.80 (1)         |      | 9.50 (1)           |  |  |
| Heating capacity                   | Nom.                                              |                                   | kW    | 7.50 (2)         |      | 10.8 (2)           |  |  |
| Space cooling                      | Energy efficiency class                           |                                   |       | A++              |      |                    |  |  |
|                                    | Capacity                                          | Pdesign                           | kW    | 6.80             |      | 9.50               |  |  |
|                                    | SEER                                              |                                   |       | 6.58             |      | 6.42               |  |  |
|                                    | Annual energy consumption                         |                                   | kWh/a | 362              |      | 518                |  |  |
|                                    | A Condition (35°C - 27/19)                        | Pdc                               | kW    | 6.80             |      | 9.50               |  |  |
|                                    |                                                   | EERd                              |       | 3.27             |      | 3.74               |  |  |
|                                    |                                                   | Power input                       | kW    | 2.08             |      | 2.54               |  |  |
|                                    | B Condition (30°C - 27/19)                        | Pdc                               | kW    | 5.03             |      | 7.03               |  |  |
|                                    |                                                   | EERd                              |       | 4.54             |      | 4.76               |  |  |
|                                    |                                                   | Power input                       | kW    | 1.11             |      | 1.48               |  |  |
|                                    | C Condition (25°C - 27/19)                        | Pdc                               | kW    | 3.22             |      | 4.46               |  |  |
|                                    |                                                   | EERd                              |       | 9.30             |      | 7.70               |  |  |
|                                    |                                                   | Power input                       | kW    | 0.35             |      | 0.58               |  |  |
|                                    | D Condition (20°C - 27/19)                        | Pdc                               | kW    | 2.40             |      | 3.43               |  |  |
| EERd                               |                                                   | 11.11                             |       | 11.08            |      |                    |  |  |
| Power input                        |                                                   | kW                                | 0.22  |                  | 0.31 |                    |  |  |
| Space heating<br>(Average climate) | Energy efficiency class                           |                                   |       | A+               |      |                    |  |  |
|                                    | Capacity                                          | Pdesign                           | kW    | 4.70             |      | 7.80               |  |  |
|                                    | SCOP/A                                            |                                   |       | 4.02             |      | 4.01               |  |  |
|                                    | SCOPnet/A                                         |                                   |       | 4.02             |      | 4.01               |  |  |
|                                    | Annual energy consumption                         |                                   | kWh/a | 1,637            |      | 2,723              |  |  |
|                                    | Required back up heating cap at design conditions |                                   | kW    | 0.00             |      |                    |  |  |
|                                    | TOL                                               | Tol (temperature operating limit) | °C    | -10              |      |                    |  |  |
|                                    |                                                   | Pdh (declared heating cap)        | kW    | 4.70             |      | 7.80               |  |  |
|                                    |                                                   | COPd (declared COP)               |       | 2.40             |      | 2.19               |  |  |
|                                    |                                                   | Power input                       | kW    | 1.96             |      | 3.57               |  |  |
|                                    | TBivalent                                         | Tbiv (bivalent temperature)       | °C    | -10.0            |      |                    |  |  |
|                                    |                                                   | Pdh (declared heating cap)        | kW    | 4.70             |      | 7.80               |  |  |
|                                    |                                                   | COPd (declared COP)               |       | 2.40             |      | 2.19               |  |  |
|                                    |                                                   | Power input                       | kW    | 1.96             |      | 3.57               |  |  |
|                                    | A Condition (-7°C)                                | Pdh (declared heating cap)        | kW    | 4.14             |      | 6.86               |  |  |
|                                    |                                                   | COPd (declared COP)               |       | 2.78             |      | 2.53               |  |  |
|                                    |                                                   | Power input                       | kW    | 1.49             |      | 2.71               |  |  |
|                                    | B Condition (2°C)                                 | Pdh (declared heating cap)        | kW    | 2.54             |      | 4.21               |  |  |
|                                    |                                                   | COPd (declared COP)               |       | 4.02             |      | 3.94               |  |  |
|                                    |                                                   | Power input                       | kW    | 0.63             |      | 1.07               |  |  |
|                                    | C Condition (7°C)                                 | Pdh (declared heating cap)        | kW    | 1.76             |      | 2.73               |  |  |
|                                    |                                                   | COPd (declared COP)               |       | 4.92             |      | 5.19               |  |  |
|                                    |                                                   | Power input                       | kW    | 0.36             |      | 0.53               |  |  |
|                                    | D Condition (12°C)                                | Pdh (declared heating cap)        | kW    | 1.96             |      | 2.47               |  |  |
|                                    |                                                   | COPd (declared COP)               |       | 5.83             |      | 6.61               |  |  |
|                                    |                                                   | Power input                       | kW    | 0.34             |      | 0.37               |  |  |
|                                    | Cooling                                           | Cdc (Degradation cooling)         |       |                  | 0.25 |                    |  |  |
|                                    | Heating                                           | Cdh (Degradation heating)         |       |                  | 0.25 |                    |  |  |
|                                    | Cooling function included                         |                                   |       |                  | Yes  |                    |  |  |
|                                    | Heating function included                         |                                   |       |                  | Yes  |                    |  |  |
|                                    | Average climate included                          |                                   |       |                  | Yes  |                    |  |  |
|                                    | Cold season included                              |                                   |       |                  | No   |                    |  |  |
|                                    | Warm season included                              |                                   |       |                  | No   |                    |  |  |

## 2 Specifications

| 2-5 Capacity and Power input                                                        |                     |         |      |    | FAA71A/RZAG71NV1 | FAA100A/RZAG100NV1 |
|-------------------------------------------------------------------------------------|---------------------|---------|------|----|------------------|--------------------|
| Power consumption in other than active mode                                         | Off mode            | Cooling | POFF | kW | 0.009            |                    |
|                                                                                     |                     | Heating | POFF | kW | 0.009            |                    |
|                                                                                     | Standby mode        | Cooling | PSB  | kW | 0.009            |                    |
|                                                                                     |                     | Heating | PSB  | kW | 0.009            |                    |
|                                                                                     | Thermostat-off mode | Cooling | PTO  | kW | 0.005            |                    |
|                                                                                     |                     | Heating | PTO  | kW | 0.013            |                    |
| Indication if the heater is equipped with a supplementary heater (pair application) |                     |         |      |    | No               |                    |
| Supplementary heater (pair application)                                             | Back-up capacity    | Heating | elbu | kW | 0.0              |                    |

### Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

| 2-6 Capacity and Power input |                            |             |       | FHA71A9/RZAG71NV1 | FHA100A/RZAG100NV1 | FHA125A/RZAG125NV1 | FHA140A/RZAG140NV1 |
|------------------------------|----------------------------|-------------|-------|-------------------|--------------------|--------------------|--------------------|
| Cooling capacity             | Nom.                       |             | kW    | 6.80 (1)          | 9.50 (1)           | 12.1 (1)           | 13.4 (1)           |
| Heating capacity             | Nom.                       |             | kW    | 7.50 (2)          | 10.8 (2)           | 13.5 (2)           | 15.5 (2)           |
| Space cooling                | Energy efficiency class    |             |       | A++               |                    | -                  |                    |
|                              | Capacity                   | Pdesign     | kW    | 6.80              | 9.50               | 12.1               | 13.4               |
|                              | SEER                       |             |       | 7.11              | 6.42               | 7.14               | 6.42               |
|                              | ηs,c                       |             | %     | -                 |                    | 283                | 254                |
|                              | Annual energy consumption  |             | kWh/a | 335               | 518                | 1,017              | 1,253              |
|                              | A Condition (35°C - 27/19) | Pdc         | kW    | 6.80              | 9.50               | 12.10              | 13.40              |
|                              |                            | EERd        |       | 3.75              | 4.10               | 3.40               | 3.11               |
|                              |                            | Power input | kW    | 1.81              | 2.31               | 3.56               | 4.31               |
|                              | B Condition (30°C - 27/19) | Pdc         | kW    | 5.03              | 7.03               | 8.92               | 9.87               |
|                              |                            | EERd        |       | 5.46              | 4.92               | 5.55               | 4.94               |
|                              |                            | Power input | kW    | 0.92              | 1.43               | 1.61               | 2.00               |
|                              | C Condition (25°C - 27/19) | Pdc         | kW    | 3.20              | 4.47               | 5.73               | 6.35               |
|                              |                            | EERd        |       | 8.99              | 7.62               | 8.20               | 7.48               |
|                              |                            | Power input | kW    | 0.36              | 0.59               | 0.70               | 0.85               |
|                              | D Condition (20°C - 27/19) | Pdc         | kW    | 2.48              | 3.54               | 3.36               | 3.35               |
|                              |                            | EERd        |       | 12.58             | 10.27              | 12.00              | 10.13              |
|                              |                            | Power input | kW    | 0.20              | 0.34               | 0.28               | 0.33               |

## 2 Specifications

| 2-6 Capacity and Power input                                                        |                                                   |                                   |                            |       | FHA71A9/RZAG71NV1 | FHA100A/RZAG100NV1 | FHA125A/RZAG125NV1 | FHA140A/RZAG140NV1 |             |           |      |  |
|-------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------|----------------------------|-------|-------------------|--------------------|--------------------|--------------------|-------------|-----------|------|--|
| Space heating<br>(Average climate)                                                  | Energy efficiency class                           |                                   |                            |       | A+                |                    | A++                |                    | -           |           |      |  |
|                                                                                     | Capacity                                          |                                   | Pdesign                    | kW    | 4.70              |                    | 7.80               |                    | 9.52        |           |      |  |
|                                                                                     | SCOP/A                                            |                                   |                            |       | 4.32              |                    | 4.61               |                    | 4.09 4.30   |           |      |  |
|                                                                                     | SCOPnet/A                                         |                                   |                            |       | 4.32              |                    | 4.61               |                    | 4.09 4.30   |           |      |  |
|                                                                                     | ηs,h                                              |                                   |                            | %     | -                 |                    |                    | 161                |             | 169       |      |  |
|                                                                                     | Annual energy consumption                         |                                   |                            | kWh/a | 1,523             |                    | 2,369              |                    | 3,259 3,100 |           |      |  |
|                                                                                     | Required back up heating cap at design conditions |                                   |                            | kW    | 0.00              |                    |                    |                    |             |           |      |  |
|                                                                                     | TOL                                               | Tol (temperature operating limit) | °C                         |       | -10               |                    |                    |                    |             |           |      |  |
|                                                                                     |                                                   |                                   | Pdh (declared heating cap) |       | kW                |                    | 4.70 7.80          |                    | 9.52        |           |      |  |
|                                                                                     |                                                   | COPd (declared COP)               |                            |       | 2.43              |                    | 2.65               |                    | 1.82        |           | 2.13 |  |
|                                                                                     |                                                   | Power input                       |                            | kW    | 1.93              |                    | 2.94               |                    | 5.24        |           | 4.47 |  |
|                                                                                     | TBivalent                                         | Tbiv (bivalent temperature)       | °C                         |       | -10.0             |                    |                    |                    |             |           |      |  |
|                                                                                     |                                                   |                                   | Pdh (declared heating cap) |       | kW                |                    | 4.70 7.80          |                    | 9.52        |           |      |  |
|                                                                                     |                                                   | COPd (declared COP)               |                            |       | 2.43              |                    | 2.65               |                    | 1.82        |           | 2.13 |  |
|                                                                                     |                                                   | Power input                       |                            | kW    | 1.93              |                    | 2.94               |                    | 5.24        |           | 4.47 |  |
|                                                                                     | A Condition (-7°C)                                | Pdh (declared heating cap)        | kW                         |       | 4.14              |                    | 6.86               |                    | 8.42        |           |      |  |
|                                                                                     |                                                   |                                   | COPd (declared COP)        |       |                   | 2.95               |                    | 3.03               |             | 2.48 2.70 |      |  |
|                                                                                     |                                                   | Power input                       |                            | kW    | 1.40              |                    | 2.27               |                    | 3.39        |           | 3.11 |  |
|                                                                                     | B Condition (2°C)                                 | Pdh (declared heating cap)        | kW                         |       | 2.54              |                    | 4.21               |                    | 5.12        |           |      |  |
|                                                                                     |                                                   |                                   | COPd (declared COP)        |       |                   | 4.44               |                    | 4.61               |             | 4.15 4.33 |      |  |
|                                                                                     |                                                   | Power input                       |                            | kW    | 0.57              |                    | 0.91               |                    | 1.24        |           | 1.18 |  |
|                                                                                     | C Condition (7°C)                                 | Pdh (declared heating cap)        | kW                         |       | 1.79              |                    | 2.73               |                    | 3.29        |           |      |  |
|                                                                                     |                                                   |                                   | COPd (declared COP)        |       |                   | 5.15               |                    | 5.70               |             | 5.34 5.54 |      |  |
|                                                                                     |                                                   | Power input                       |                            | kW    | 0.35              |                    | 0.48               |                    | 0.62        |           | 0.59 |  |
|                                                                                     | D Condition (12°C)                                | Pdh (declared heating cap)        | kW                         |       | 1.97              |                    | 2.54               |                    | 2.55        |           | 2.64 |  |
|                                                                                     |                                                   |                                   | COPd (declared COP)        |       |                   | 5.99               |                    | 7.06               |             | 5.97 6.25 |      |  |
|                                                                                     |                                                   | Power input                       |                            | kW    | 0.33              |                    | 0.36               |                    | 0.43        |           | 0.42 |  |
| Cooling                                                                             | Cdc (Degradation cooling)                         |                                   |                            |       | 0.25              |                    |                    |                    |             |           |      |  |
| Heating                                                                             | Cdh (Degradation heating)                         |                                   |                            |       | 0.25              |                    |                    |                    |             |           |      |  |
| Cooling function included                                                           |                                                   |                                   |                            |       | Yes               |                    |                    |                    |             |           |      |  |
| Heating function included                                                           |                                                   |                                   |                            |       | Yes               |                    |                    |                    |             |           |      |  |
| Average climate included                                                            |                                                   |                                   |                            |       | Yes               |                    |                    |                    |             |           |      |  |
| Cold season included                                                                |                                                   |                                   |                            |       | No                |                    |                    |                    |             |           |      |  |
| Warm season included                                                                |                                                   |                                   |                            |       | No                |                    |                    |                    |             |           |      |  |
| Power consumption in other than active mode                                         | Off mode                                          | Cooling                           | POFF                       | kW    | 0.009             |                    |                    |                    |             |           |      |  |
|                                                                                     |                                                   | Heating                           | POFF                       | kW    | 0.009             |                    |                    |                    |             |           |      |  |
|                                                                                     | Standby mode                                      | Cooling                           | PSB                        | kW    | 0.009             |                    |                    |                    |             |           |      |  |
|                                                                                     |                                                   | Heating                           | PSB                        | kW    | 0.009             |                    |                    |                    |             |           |      |  |
|                                                                                     | Thermostat-off mode                               | Cooling                           | PTO                        | kW    | 0.005             |                    |                    |                    |             |           |      |  |
|                                                                                     |                                                   | Heating                           | PTO                        | kW    | 0.013             |                    |                    |                    |             |           |      |  |
| Indication if the heater is equipped with a supplementary heater (pair application) |                                                   |                                   |                            |       | No                |                    |                    |                    |             |           |      |  |
| Supplementary heater (pair application)                                             | Back-up capacity                                  | Heating                           | elbu                       | kW    | 0.0               |                    |                    |                    |             |           |      |  |

### Notes

- (1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.
- (2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

## 2 Specifications

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| 2-7 Capacity and Power input       |                                                   |                                   |       | FUA71A/RZAG71NV1 | FUA100A/RZAG100NV1 | FUA125A/RZAG125NV1 |
|------------------------------------|---------------------------------------------------|-----------------------------------|-------|------------------|--------------------|--------------------|
| Cooling capacity                   | Nom.                                              |                                   | kW    | 6.80 (1)         | 9.50 (1)           | 12.1 (1)           |
| Heating capacity                   | Nom.                                              |                                   | kW    | 7.50 (2)         | 10.8 (2)           | 13.5 (2)           |
| Space cooling                      | Energy efficiency class                           |                                   |       | A++              |                    | -                  |
|                                    | Capacity                                          | Pdesign                           | kW    | 6.80             | 9.50               | 12.1               |
|                                    | SEER                                              |                                   |       | 7.02             | 6.42               | 6.39               |
|                                    | ηs,c                                              |                                   | %     | -                |                    | 253                |
|                                    | Annual energy consumption                         |                                   | kWh/a | 339              | 518                | 1,136              |
|                                    | A Condition (35°C - 27/19)                        | Pdc                               | kW    | 6.80             | 9.50               | 12.10              |
|                                    |                                                   | EERd                              |       | 3.83             | 3.57               | 3.02               |
|                                    |                                                   | Power input                       | kW    | 1.77             | 2.66               | 4.00               |
|                                    | B Condition (30°C - 27/19)                        | Pdc                               | kW    | 5.03             | 7.03               | 8.91               |
|                                    |                                                   | EERd                              |       | 5.34             | 4.93               | 5.08               |
|                                    |                                                   | Power input                       | kW    | 0.94             | 1.43               | 1.76               |
|                                    | C Condition (25°C - 27/19)                        | Pdc                               | kW    | 3.20             | 4.46               | 5.74               |
|                                    |                                                   | EERd                              |       | 8.83             | 7.75               | 7.22               |
|                                    |                                                   | Power input                       | kW    | 0.36             | 0.58               | 0.79               |
|                                    | D Condition (20°C - 27/19)                        | Pdc                               | kW    | 2.59             | 3.36               | 3.23               |
|                                    |                                                   | EERd                              |       | 12.48            | 10.65              | 10.56              |
|                                    |                                                   | Power input                       | kW    | 0.21             | 0.32               | 0.31               |
| Space heating<br>(Average climate) | Energy efficiency class                           |                                   |       | A+               |                    | -                  |
|                                    | Capacity                                          | Pdesign                           | kW    | 4.70             | 7.80               | 9.52               |
|                                    | SCOP/A                                            |                                   |       | 4.20             | 4.50               | 4.26               |
|                                    | SCOPnet/A                                         |                                   |       | 4.20             | 4.50               | 4.26               |
|                                    | ηs,h                                              |                                   | %     | -                |                    | 167                |
|                                    | Annual energy consumption                         |                                   | kWh/a | 1,567            | 2,427              | 3,129              |
|                                    | Required back up heating cap at design conditions |                                   | kW    | 0.00             |                    |                    |
|                                    | TOL                                               | Tol (temperature operating limit) | °C    | -10              |                    |                    |
|                                    |                                                   | Pdh (declared heating cap)        | kW    | 4.70             | 7.80               | 9.52               |
|                                    |                                                   | COPd (declared COP)               |       | 2.58             | 2.62               | 1.97               |
|                                    |                                                   | Power input                       | kW    | 1.82             | 2.97               | 4.83               |
|                                    | TBivalent                                         | Tbiv (bivalent temperature)       | °C    | -10.0            |                    |                    |
|                                    |                                                   | Pdh (declared heating cap)        | kW    | 4.70             | 7.80               | 9.52               |
|                                    |                                                   | COPd (declared COP)               |       | 2.58             | 2.62               | 1.97               |
|                                    |                                                   | Power input                       | kW    | 1.82             | 2.97               | 4.83               |
|                                    | A Condition (-7°C)                                | Pdh (declared heating cap)        | kW    | 4.14             | 6.86               | 8.43               |
|                                    |                                                   | COPd (declared COP)               |       | 2.99             | 3.00               | 2.66               |
|                                    |                                                   | Power input                       | kW    | 1.38             | 2.29               | 3.17               |
|                                    | B Condition (2°C)                                 | Pdh (declared heating cap)        | kW    | 2.54             | 4.21               | 5.12               |
|                                    |                                                   | COPd (declared COP)               |       | 4.27             | 4.53               | 4.31               |
|                                    |                                                   | Power input                       | kW    | 0.60             | 0.93               | 1.19               |
|                                    | C Condition (7°C)                                 | Pdh (declared heating cap)        | kW    | 1.80             | 2.73               | 3.29               |
|                                    |                                                   | COPd (declared COP)               |       | 5.03             | 5.47               |                    |
|                                    |                                                   | Power input                       | kW    | 0.36             | 0.50               | 0.60               |
|                                    | D Condition (12°C)                                | Pdh (declared heating cap)        | kW    | 2.00             | 2.55               | 2.58               |
|                                    |                                                   | COPd (declared COP)               |       | 6.00             | 6.76               | 6.18               |
|                                    |                                                   | Power input                       | kW    | 0.33             | 0.38               | 0.42               |
| Cooling                            | Cdc (Degradation cooling)                         |                                   |       | 0.25             |                    |                    |
| Heating                            | Cdh (Degradation heating)                         |                                   |       | 0.25             |                    |                    |
| Cooling function included          |                                                   |                                   |       | Yes              |                    |                    |
| Heating function included          |                                                   |                                   |       | Yes              |                    |                    |
| Average climate included           |                                                   |                                   |       | Yes              |                    |                    |

## 2 Specifications

| 2-7 Capacity and Power input                                                        |                     |         |      |    | FUA71A/RZAG71NV1 | FUA100A/RZAG100NV1 | FUA125A/RZAG125NV1 |
|-------------------------------------------------------------------------------------|---------------------|---------|------|----|------------------|--------------------|--------------------|
| Cold season included                                                                |                     |         |      |    | No               |                    |                    |
| Warm season included                                                                |                     |         |      |    | No               |                    |                    |
| Power consumption in other than active mode                                         | Off mode            | Cooling | POFF | kW | 0.009            |                    |                    |
|                                                                                     |                     | Heating | POFF | kW | 0.009            |                    |                    |
|                                                                                     | Standby mode        | Cooling | PSB  | kW | 0.009            |                    |                    |
|                                                                                     |                     | Heating | PSB  | kW | 0.009            |                    |                    |
|                                                                                     | Thermostat-off mode | Cooling | PTO  | kW | 0.005            |                    |                    |
|                                                                                     |                     | Heating | PTO  | kW | 0.013            |                    |                    |
| Indication if the heater is equipped with a supplementary heater (pair application) |                     |         |      |    | No               |                    |                    |
| Supplementary heater (pair application)                                             | Back-up capacity    | Heating | elbu | kW | 0.0              |                    |                    |

### Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

| 2-8 Capacity and Power input |                            |             |    | FVA71A/RZAG71NV1 | FVA100A/RZAG100NV1 | FVA125A/RZAG125NV1 | FVA140A/RZAG140NV1 |
|------------------------------|----------------------------|-------------|----|------------------|--------------------|--------------------|--------------------|
| Cooling capacity             | Nom.                       |             | kW | 6.80 (1)         | 9.50 (1)           | 12.1 (1)           | 13.4 (1)           |
| Heating capacity             | Nom.                       |             | kW | 7.50 (2)         | 10.8 (2)           | 13.5 (2)           | 15.5 (2)           |
| Space cooling                | Energy efficiency class    |             |    | A++              | A+                 | -                  |                    |
|                              | Capacity                   | Pdesign     | kW | 6.80             | 9.50               | 12.1               | 13.4               |
|                              | SEER                       |             |    | 6.34             | 6.00               | 6.41               | 6.12               |
|                              | ηs,c                       |             |    | -                |                    | 253                | 242                |
|                              | Annual energy consumption  |             |    | kWh/a            | 376                | 554                | 1,133              |
|                              | A Condition (35°C - 27/19) | Pdc         | kW | 6.80             | 9.50               | 12.10              | 13.40              |
|                              |                            | EERd        |    | 3.27             | 3.57               | 3.21               | 3.03               |
|                              |                            | Power input | kW | 2.08             | 2.66               | 3.77               | 4.42               |
|                              | B Condition (30°C - 27/19) | Pdc         | kW | 5.03             | 7.03               | 8.92               | 9.87               |
|                              |                            | EERd        |    | 5.15             | 4.83               | 5.23               | 4.89               |
|                              |                            | Power input | kW | 0.98             | 1.46               | 1.70               | 2.02               |
|                              | C Condition (25°C - 27/19) | Pdc         | kW | 3.20             | 4.46               | 5.73               | 6.35               |
|                              |                            | EERd        |    | 7.53             | 7.11               | 7.07               | 6.90               |
|                              |                            | Power input | kW | 0.42             | 0.63               | 0.81               | 0.92               |
|                              | D Condition (20°C - 27/19) | Pdc         | kW | 2.33             | 3.20               | 3.23               | 3.24               |
|                              |                            | EERd        |    | 11.27            | 9.13               | 10.28              | 9.46               |
|                              |                            | Power input | kW | 0.21             | 0.35               | 0.31               | 0.34               |

## 2 Specifications

2

| 2-8 Capacity and Power input                                                        |                                                   |                                   |       |       | FVA71A/RZAG71NV1 | FVA100A/RZAG100NV1 | FVA125A/RZAG125NV1 | FVA140A/RZAG140NV1 |
|-------------------------------------------------------------------------------------|---------------------------------------------------|-----------------------------------|-------|-------|------------------|--------------------|--------------------|--------------------|
| Space heating<br>(Average climate)                                                  | Energy efficiency class                           |                                   |       |       | A+               |                    | -                  |                    |
|                                                                                     | Capacity                                          | Pdesign                           | kW    | 4.70  | 7.80             | 9.52               |                    |                    |
|                                                                                     | SCOP/A                                            |                                   |       | 4.05  | 4.20             | 4.15               | 3.94               |                    |
|                                                                                     | SCOPnet/A                                         |                                   |       | 4.05  | 4.20             | 4.15               | 3.94               |                    |
|                                                                                     | ηs,h                                              |                                   | %     | -     |                  | 163                | 155                |                    |
|                                                                                     | Annual energy consumption                         |                                   | kWh/a | 1,625 | 2,600            | 3,209              | 3,383              |                    |
|                                                                                     | Required back up heating cap at design conditions |                                   | kW    | 0.00  |                  |                    |                    |                    |
|                                                                                     | TOL                                               | Tol (temperature operating limit) | °C    | -10   |                  |                    |                    |                    |
|                                                                                     |                                                   | Pdh (declared heating cap)        | kW    | 4.70  | 7.80             | 9.52               |                    |                    |
|                                                                                     |                                                   | COPd (declared COP)               |       | 2.42  | 2.45             | 1.86               |                    |                    |
|                                                                                     |                                                   | Power input                       | kW    | 1.94  | 3.19             | 5.11               |                    |                    |
|                                                                                     | TBivalent                                         | Tbiv (bivalent temperature)       | °C    | -10.0 |                  |                    |                    |                    |
|                                                                                     |                                                   | Pdh (declared heating cap)        | kW    | 4.70  | 7.80             | 9.52               |                    |                    |
|                                                                                     |                                                   | COPd (declared COP)               |       | 2.42  | 2.45             | 1.86               |                    |                    |
|                                                                                     |                                                   | Power input                       | kW    | 1.94  | 3.19             | 5.11               |                    |                    |
|                                                                                     | A Condition (-7°C)                                | Pdh (declared heating cap)        | kW    | 4.14  | 6.86             | 8.43               | 8.42               |                    |
|                                                                                     |                                                   | COPd (declared COP)               |       | 2.83  | 2.82             | 2.55               | 2.42               |                    |
|                                                                                     |                                                   | Power input                       | kW    | 1.46  | 2.43             | 3.30               | 3.48               |                    |
|                                                                                     | B Condition (2°C)                                 | Pdh (declared heating cap)        | kW    | 2.54  | 4.21             | 5.12               |                    |                    |
|                                                                                     |                                                   | COPd (declared COP)               |       | 4.07  | 4.21             | 4.20               | 3.99               |                    |
|                                                                                     |                                                   | Power input                       | kW    | 0.62  | 1.00             | 1.22               | 1.28               |                    |
|                                                                                     | C Condition (7°C)                                 | Pdh (declared heating cap)        | kW    | 1.76  | 2.73             | 3.29               |                    |                    |
|                                                                                     |                                                   | COPd (declared COP)               |       | 4.92  | 5.13             | 5.42               | 5.12               |                    |
|                                                                                     |                                                   | Power input                       | kW    | 0.36  | 0.53             | 0.61               | 0.64               |                    |
|                                                                                     | D Condition (12°C)                                | Pdh (declared heating cap)        | kW    | 1.96  | 2.56             | 2.57               | 2.61               |                    |
|                                                                                     |                                                   | COPd (declared COP)               |       | 5.77  | 6.22             | 6.00               | 5.67               |                    |
|                                                                                     |                                                   | Power input                       | kW    | 0.34  | 0.41             | 0.43               | 0.46               |                    |
| Cooling                                                                             | Cdc (Degradation cooling)                         |                                   |       |       | 0.25             |                    |                    |                    |
| Heating                                                                             | Cdh (Degradation heating)                         |                                   |       |       | 0.25             |                    |                    |                    |
| Cooling function included                                                           |                                                   |                                   |       |       | Yes              |                    |                    |                    |
| Heating function included                                                           |                                                   |                                   |       |       | Yes              |                    |                    |                    |
| Average climate included                                                            |                                                   |                                   |       |       | Yes              |                    |                    |                    |
| Cold season included                                                                |                                                   |                                   |       |       | No               |                    |                    |                    |
| Warm season included                                                                |                                                   |                                   |       |       | No               |                    |                    |                    |
| Power consumption in other than active mode                                         | Off mode                                          | Cooling                           | POFF  | kW    | 0.009            |                    |                    |                    |
|                                                                                     |                                                   | Heating                           | POFF  | kW    | 0.009            |                    |                    |                    |
|                                                                                     | Standby mode                                      | Cooling                           | PSB   | kW    | 0.009            |                    |                    |                    |
|                                                                                     |                                                   | Heating                           | PSB   | kW    | 0.009            |                    |                    |                    |
|                                                                                     | Thermostat-off mode                               | Cooling                           | PTO   | kW    | 0.005            |                    |                    |                    |
|                                                                                     |                                                   | Heating                           | PTO   | kW    | 0.013            |                    |                    |                    |
| Indication if the heater is equipped with a supplementary heater (pair application) |                                                   |                                   |       |       | No               |                    |                    |                    |
| Supplementary heater (pair application)                                             | Back-up capacity                                  | Heating                           | elbu  | kW    | 0.0              |                    |                    |                    |

### Notes

(1) Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m.

(2) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m.

## 2 Specifications

| 2-9 Technical Specifications |                               |             |                |                           | RZAG71NV1                            |                         | RZAG100NV1 |     | RZAG125NV1 |    | RZAG140NV1 |  |  |
|------------------------------|-------------------------------|-------------|----------------|---------------------------|--------------------------------------|-------------------------|------------|-----|------------|----|------------|--|--|
| Capacity control             | Method                        |             |                |                           | Inverter controlled                  |                         |            |     |            |    |            |  |  |
| Casing                       | Colour                        |             |                |                           | Ivory white                          |                         |            |     |            |    |            |  |  |
|                              | Material                      |             |                |                           | Painted galvanized steel plate       |                         |            |     |            |    |            |  |  |
| Dimensions                   | Unit                          | Height      |                | mm                        | 870                                  |                         |            |     |            |    |            |  |  |
|                              |                               | Width       |                | mm                        | 1,100                                |                         |            |     |            |    |            |  |  |
|                              |                               | Depth       |                | mm                        | 460                                  |                         |            |     |            |    |            |  |  |
|                              | Packed unit                   | Height      |                | mm                        | 1,043                                |                         |            |     |            |    |            |  |  |
|                              |                               | Width       |                | mm                        | 1,205                                |                         |            |     |            |    |            |  |  |
|                              |                               | Depth       |                | mm                        | 509                                  |                         |            |     |            |    |            |  |  |
| Weight                       | Unit                          |             |                | kg                        | 81                                   | 85                      |            | 95  |            |    |            |  |  |
|                              | Packed unit                   |             |                | kg                        | 92                                   | 95                      |            | 106 |            |    |            |  |  |
| Packing                      | Weight                        |             |                | kg                        | 10                                   |                         |            |     |            |    |            |  |  |
| Heat exchanger               | Fin                           | Type        |                |                           | WF fin                               |                         |            |     |            |    |            |  |  |
|                              |                               | Treatment   |                |                           | Anti-corrosion treatment (PE)        |                         |            |     |            |    |            |  |  |
| Compressor                   | Quantity                      |             |                |                           | 1                                    |                         |            |     |            |    |            |  |  |
|                              | Type                          |             |                |                           | Hermetically sealed swing compressor |                         |            |     |            |    |            |  |  |
| Fan                          | Type                          |             |                |                           | Propeller                            |                         |            |     |            |    |            |  |  |
|                              | Discharge direction           |             |                |                           | Horizontal                           |                         |            |     |            |    |            |  |  |
|                              | Quantity                      |             |                |                           | 1                                    |                         |            |     |            |    |            |  |  |
|                              | Air flow rate                 | Cooling     | Nom.           | m³/min                    | 68                                   | 67                      |            | 80  |            | 87 |            |  |  |
|                              |                               | Heating     | Nom.           | m³/min                    | 75                                   | 82                      |            | 80  |            | 87 |            |  |  |
| Fan motor                    | Quantity                      |             |                |                           | 1                                    |                         |            |     |            |    |            |  |  |
|                              | Model                         |             |                |                           | Brushless DC motor                   |                         |            |     |            |    |            |  |  |
|                              | Output                        |             |                | W                         | 234                                  |                         |            |     |            |    |            |  |  |
|                              | Drive                         |             |                |                           | Direct drive                         |                         |            |     |            |    |            |  |  |
| Sound power level            | Cooling                       |             |                | dBA                       | 64                                   | 66                      |            | 69  |            | 70 |            |  |  |
|                              | Heating                       |             |                | dBA                       | -                                    |                         |            |     | 68 (1)     |    | 71 (1)     |  |  |
| Sound pressure level         | Cooling                       | Nom.        |                | dBA                       | 46                                   | 47                      |            | 49  |            | 50 |            |  |  |
|                              | Heating                       | Nom.        |                | dBA                       | 48                                   | 50                      |            | 52  |            |    |            |  |  |
| Operation range              | Cooling                       | Ambien<br>t | Min.           | °CDB                      | -20                                  |                         |            |     |            |    |            |  |  |
|                              |                               |             | Max.           | °CDB                      | 52                                   |                         |            |     |            |    |            |  |  |
|                              | Heating                       | Ambien<br>t | Min.           | °CWB                      | -20                                  |                         |            |     |            |    |            |  |  |
|                              |                               |             | Max.           | °CWB                      | 18                                   |                         |            |     |            |    |            |  |  |
| Refrigerant                  | Type                          |             |                |                           | R-32                                 |                         |            |     |            |    |            |  |  |
|                              | Charge                        |             |                | kg                        | 3.20                                 |                         |            |     | 3.70       |    |            |  |  |
|                              |                               |             |                | TCO <sub>2</sub> eq       | 2.16                                 |                         |            |     | 2.50       |    |            |  |  |
|                              | Control                       |             |                |                           | Expansion valve (electronic type)    |                         |            |     |            |    |            |  |  |
|                              | GWP                           |             |                |                           | 675                                  |                         |            |     |            |    |            |  |  |
|                              | Circuits                      | Quantity    |                |                           | 1                                    |                         |            |     |            |    |            |  |  |
| Piping connections           | Liquid                        | Quantity    |                |                           | 1                                    |                         |            |     |            |    |            |  |  |
|                              |                               | Type        |                |                           | Flare connection                     |                         |            |     |            |    |            |  |  |
|                              |                               | OD          | mm             |                           | 9,52                                 |                         |            |     |            |    |            |  |  |
|                              | Gas                           | Quantity    |                |                           | 1                                    |                         |            |     |            |    |            |  |  |
|                              |                               | Type        |                |                           | Flare connection                     |                         |            |     |            |    |            |  |  |
|                              |                               | OD          | mm             |                           | 15.9                                 |                         |            |     |            |    |            |  |  |
|                              | Drain                         | Quantity    |                |                           | 8                                    |                         |            |     |            |    |            |  |  |
|                              |                               | Type        |                |                           | Hole                                 |                         |            |     |            |    |            |  |  |
|                              |                               | OD          | mm             |                           | 26                                   |                         |            |     |            |    |            |  |  |
|                              | Piping length                 | OU - IU     | Min.           | m                         | 3                                    |                         |            |     |            |    |            |  |  |
|                              |                               |             | Max.           | m                         | 55                                   | 85                      |            |     |            |    |            |  |  |
|                              |                               | System      | Equival<br>ent | m                         | 75                                   | 100                     |            |     |            |    |            |  |  |
|                              |                               |             |                | Chargel<br>ess            | m                                    | 40                      |            |     |            |    |            |  |  |
|                              | Additional refrigerant charge |             |                |                           | kg/m                                 | See installation manual |            |     |            |    |            |  |  |
|                              | Level difference              | IU - OU     | Max.           | m                         | 30                                   |                         |            |     |            |    |            |  |  |
| IU - IU                      |                               | Max.        | m              | 0.5                       |                                      |                         |            |     |            |    |            |  |  |
| Heat insulation              |                               |             |                | Both liquid and gas pipes |                                      |                         |            |     |            |    |            |  |  |

## 2 Specifications

| 2-9 Technical Specifications |                |    | RZAG71NV1                                     | RZAG100NV1 | RZAG125NV1 | RZAG140NV1 |
|------------------------------|----------------|----|-----------------------------------------------|------------|------------|------------|
| Refrigerant oil              | Type           |    | FW68DA                                        |            |            |            |
|                              | Charged volume | l  | 0.9                                           |            | 1.4        |            |
| Defrost method               |                |    | Reversed cycle                                |            |            |            |
| Defrost control              |                |    | Sensor for outdoor heat exchanger temperature |            |            |            |
| Safety devices               | Item           | 01 | High pressure switch                          |            |            |            |
|                              |                | 02 | Low pressure switch                           |            |            |            |
|                              |                | 03 | Fan driver overload protector                 |            |            |            |
|                              |                | 04 | Fuse                                          |            |            |            |
|                              |                | 05 | Compressor motor thermal protector            |            |            |            |

Standard Accessories : Tie-wraps; Quantity : 2;

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : General safety precautions; Quantity : 1;

Standard Accessories : Peel off F-gas label; Quantity : 1;

Standard Accessories : Refrigerant label for F-gas regulation; Quantity : 1;

| 2-10 Electrical Specifications |                            |        | RZAG71NV1                            | RZAG100NV1 | RZAG125NV1 | RZAG140NV1 |
|--------------------------------|----------------------------|--------|--------------------------------------|------------|------------|------------|
| Power supply                   | Name                       |        | V1                                   |            |            |            |
|                                | Phase                      |        | 1~                                   |            |            |            |
|                                | Frequency                  | Hz     | 50                                   |            |            |            |
|                                | Voltage                    | V      | 220-240                              |            |            |            |
| Current - 50Hz                 | Maximum fuse amps (MFA)    | A      | 20                                   | 32         |            |            |
| Current                        | Zmax                       | List   | Complies to EN61000-3-11             |            |            |            |
| Wiring connections             | For power supply           | Remark | See installation manual outdoor unit |            |            |            |
|                                | For connection with indoor | Remark | See installation manual outdoor unit |            |            |            |
| Power supply intake            |                            |        | See installation manual outdoor unit |            |            |            |

### Notes

(1) According to ENER Lot 21

# 3 Electrical data

## 3 - 1 Electrical Data

### RZAG-NV1

### RZAG-NY1

#### Symbols

MCA: Minimum Circuit Ampere [A]  
TOCA: Total overcurrent amps [A]  
MFA: Maximum Fuse Ampere [A]  
MSC: Maximum current of the starting compressor [A]  
RLA: Rated load amps [A]  
OFM: Outdoor fan motor  
IFM: Indoor fan motor  
FLA: Full Load Ampere [A]  
KW: Fan motor rated output [kW]

#### Notes

- The 'RLA' is based on the following conditions.  
Cooling  
Indoor temperature :27.0°C DB / -19.0°C WB  
Outdoor temperature :35.0°C DB  
Heating  
Indoor temperature :20.0°C DB  
Outdoor temperature :7.0°C DB / -6.0°C WB
- 'TOCA' is the total value of each overcurrent set.
- Voltage range  
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
- The maximum allowable voltage that is unbalanced between phases is -2%.
- 'MCA' is the maximum input current.  
The capacity of the 'MFA' must be greater than that of the 'MCA'.  
Select the 'MFA' according to the table.
- Select the wire size according to the MCA.
- 'MFA' is used to select the circuit breaker and the ground fault circuit interruptor.  
Earth leakage circuit breaker

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### RZAG-NV1

| Indoor       | Outdoor | Power supply | Voltage range      |                                      | MCA  | TOCA | MFA | Compressor |      | OFM   |     | IFM      |        |
|--------------|---------|--------------|--------------------|--------------------------------------|------|------|-----|------------|------|-------|-----|----------|--------|
|              |         |              |                    |                                      |      |      |     | MSC        | RLA  | kW    | FLA | kW       | FLA    |
| FCAHG71HVEB  |         | RZAG71N7V1B  | 50Hz ~<br>220-240V | Minimum: -198 V-<br>Maximum: -264 V- | 17,7 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,091    | 0,7    |
| FCAG35BVEB   | x2      | RZAG71N7V1B  |                    |                                      | 17,6 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,044 x2 | 0,3 x2 |
| FCAG71BVEB   |         | RZAG71N7V1B  |                    |                                      | 17,4 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,054    | 0,4    |
| FFA35A2VEB   | x2      | RZAG71N7V1B  |                    |                                      | 17,4 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,050 x2 | 0,2 x2 |
| FBA35A2VEB   | x2      | RZAG71N7V1B  |                    |                                      | 19,9 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,089 x2 | 1,4 x2 |
| FBA71A2VEB   |         | RZAG71N7V1B  |                    |                                      | 18,3 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,070    | 1,3    |
| FNA35A2VEB   | x2      | RZAG71N7V1B  |                    |                                      | 18,0 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,034 x2 | 0,5 x2 |
| FUA71AVEB    |         | RZAG71N7V1B  |                    |                                      | 17,9 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,046    | 0,9    |
| FAA71AUEB    |         | RZAG71N7V1B  |                    |                                      | 17,5 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,048    | 0,5    |
| FVA71AMVEB   |         | RZAG71N7V1B  |                    |                                      | 17,8 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,117    | 0,8    |
| FDXM35F3V1B  | x2      | RZAG71N7V1B  |                    |                                      | 17,6 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,034 x2 | 0,3 x2 |
| FHA35AVEB    | x2      | RZAG71N7V1B  |                    |                                      | 18,2 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,060 x2 | 0,6 x2 |
| FHA71AVEB    |         | RZAG71N7V1B  |                    |                                      | 17,8 | —    | 20  | —          | 15,5 | 0,234 | 0,8 | 0,091    | 0,8    |
| FCAHG100HVEB |         | RZAG100N7V1B | 50Hz ~<br>220-240V | Minimum: -198 V-<br>Maximum: -264 V- | 22,2 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,221    | 1,3    |
| FCAG35BVEB   | x3      | RZAG100N7V1B |                    |                                      | 21,7 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,044 x3 | 0,3 x3 |
| FCAG50BVEB   | x2      | RZAG100N7V1B |                    |                                      | 21,4 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,039 x2 | 0,3 x2 |
| FCAG100BVEB  |         | RZAG100N7V1B |                    |                                      | 21,5 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,117    | 0,7    |
| FFA35A2VEB   | x3      | RZAG100N7V1B |                    |                                      | 21,4 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,050 x3 | 0,2 x3 |
| FFA50A2VEB   | x2      | RZAG100N7V1B |                    |                                      | 21,6 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,050 x2 | 0,4 x2 |
| FBA35A2VEB   | x3      | RZAG100N7V1B |                    |                                      | 25,2 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,089 x3 | 1,4 x3 |
| FBA50A2VEB   | x2      | RZAG100N7V1B |                    |                                      | 23,7 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,089 x2 | 1,4 x2 |
| FBA100A2VEB  |         | RZAG100N7V1B |                    |                                      | 24,4 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,127    | 3,5    |
| FNA35A2VEB   | x3      | RZAG100N7V1B |                    |                                      | 22,4 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,034 x3 | 0,5 x3 |
| FNA50A2VEB   | x2      | RZAG100N7V1B |                    |                                      | 21,8 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,060 x2 | 0,5 x2 |
| FUA100AVEB   |         | RZAG100N7V1B |                    |                                      | 22,2 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,106    | 1,3    |
| FAA100AUEB   |         | RZAG100N7V1B |                    |                                      | 21,3 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,064    | 0,5    |
| FVA100AMVEB  |         | RZAG100N7V1B |                    |                                      | 22,4 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,238    | 1,5    |
| FDXM35F3V1B  | x3      | RZAG100N7V1B |                    |                                      | 21,7 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,034 x3 | 0,3 x3 |
| FDXM50F3V1B  | x2      | RZAG100N7V1B |                    |                                      | 22,7 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,060 x2 | 0,9 x2 |
| FHA35AVEB    | x3      | RZAG100N7V1B |                    |                                      | 22,7 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,060 x3 | 0,6 x3 |
| FHA50AVEB    | x2      | RZAG100N7V1B |                    |                                      | 22,0 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,060 x2 | 0,6 x2 |
| FHA100AVEB   |         | RZAG100N7V1B |                    |                                      | 22,2 | —    | 32  | —          | 18,8 | 0,234 | 1,2 | 0,150    | 1,3    |

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# Electrical data

## 3 - 1 Electrical Data

3

### RZAG-NV1

|              |    |              |              |               |                                    |      |     |     | Compressor |       | OFM |          | IFM    |  |
|--------------|----|--------------|--------------|---------------|------------------------------------|------|-----|-----|------------|-------|-----|----------|--------|--|
| Indoor       |    | Outdoor      | Power supply | Voltage range | MCA                                | TOCA | MFA | MSC | RLA        | kW    | FLA | kW       | FLA    |  |
|              |    |              |              |               | 50Hz ~<br>220-240V                 |      |     |     |            |       |     |          |        |  |
|              |    |              |              |               | Minimum: -198 V<br>Maximum: -264 V |      |     |     |            |       |     |          |        |  |
| FCAHG125HVEB |    | RZAG125N7V1B |              |               | 27,5                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,244    | 1,4    |  |
| FCAG358VEB   | x4 | RZAG125N7V1B |              |               | 27,2                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,044 x4 | 0,3 x4 |  |
| FCAG508VEB   | x3 | RZAG125N7V1B |              |               | 26,9                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,039 x3 | 0,3 x3 |  |
| FCAG608VEB   | x2 | RZAG125N7V1B |              |               | 26,6                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,044 x2 | 0,3 x2 |  |
| FCAG125BVEB  |    | RZAG125N7V1B |              |               | 27,0                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,168    | 1,0    |  |
| FFA35A2VEB   | x4 | RZAG125N7V1B |              |               | 26,8                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,050 x4 | 0,2 x4 |  |
| FFA50A2VEB   | x3 | RZAG125N7V1B |              |               | 27,2                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,050 x3 | 0,4 x3 |  |
| FFA60A2VEB   | x2 | RZAG125N7V1B |              |               | 27,2                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,050 x2 | 0,6 x2 |  |
| FBA35A2VEB   | x4 | RZAG125N7V1B |              |               | 31,8                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,089 x4 | 1,4 x4 |  |
| FBA50A2VEB   | x3 | RZAG125N7V1B |              |               | 30,4                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,089 x3 | 1,4 x3 |  |
| FBA60A2VEB   | x2 | RZAG125N7V1B |              |               | 28,7                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,070 x2 | 1,3 x2 |  |
| FBA125A2VEB  |    | RZAG125N7V1B |              |               | 30,1                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,187    | 3,9    |  |
| FNA35A2VEB   | x4 | RZAG125N7V1B |              |               | 28,1                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,034 x4 | 0,5 x4 |  |
| FNA50A2VEB   | x3 | RZAG125N7V1B |              |               | 27,6                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,060 x3 | 0,5 x3 |  |
| FNA60A2VEB   | x2 | RZAG125N7V1B |              |               | 27,2                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,060 x2 | 0,6 x2 |  |
| FUA125AVEB   |    | RZAG125N7V1B |              |               | 27,5                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,106    | 1,4    |  |
| FDA125AVEB   |    | RZAG125N7V1B |              |               | 28,2                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,350    | 2,1    |  |
| FVA125AMVEB  |    | RZAG125N7V1B |              |               | 27,6                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,238    | 1,5    |  |
| FDXM35F3V1B  | x4 | RZAG125N7V1B |              |               | 27,2                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,034 x4 | 0,3 x4 |  |
| FDXM50F3V1B  | x3 | RZAG125N7V1B |              |               | 28,8                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,060 x3 | 0,9 x3 |  |
| FDXM60F3V1B  | x2 | RZAG125N7V1B |              |               | 27,9                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,060 x2 | 0,9 x2 |  |
| FHA35AVEB    | x4 | RZAG125N7V1B |              |               | 28,5                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,060 x4 | 0,6 x4 |  |
| FHA50AVEB    | x3 | RZAG125N7V1B |              |               | 27,9                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,060 x3 | 0,6 x3 |  |
| FHA60AVEB    | x2 | RZAG125N7V1B |              |               | 27,2                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,091 x2 | 0,6 x2 |  |
| FHA125AVEB   |    | RZAG125N7V1B |              |               | 27,6                               | —    | 32  | —   | 23,8       | 0,234 | 1,2 | 0,150    | 1,5    |  |
|              |    |              |              |               | 50Hz ~<br>220-240V                 |      |     |     |            |       |     |          |        |  |
|              |    |              |              |               | Minimum: -198 V<br>Maximum: -264 V |      |     |     |            |       |     |          |        |  |
| FCAHG71HVEB  | x2 | RZAG140N7V1B |              |               | 27,5                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,091 x2 | 0,7 x2 |  |
| FCAHG140HVEB |    | RZAG140N7V1B |              |               | 27,5                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,244    | 1,4    |  |
| FCAG358VEB   | x4 | RZAG140N7V1B |              |               | 27,2                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,044 x4 | 0,3 x4 |  |
| FCAG508VEB   | x3 | RZAG140N7V1B |              |               | 26,9                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,039 x3 | 0,3 x3 |  |
| FCAG71BVEB   | x2 | RZAG140N7V1B |              |               | 26,8                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,054 x2 | 0,4 x2 |  |
| FCAG140BVEB  |    | RZAG140N7V1B |              |               | 27,4                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,168    | 1,3    |  |
| FFA35A2VEB   | x4 | RZAG140N7V1B |              |               | 26,8                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,050 x4 | 0,2 x4 |  |
| FFA50A2VEB   | x3 | RZAG140N7V1B |              |               | 27,2                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,050 x3 | 0,4 x3 |  |
| FBA35A2VEB   | x4 | RZAG140N7V1B |              |               | 31,8                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,089 x4 | 1,4 x4 |  |
| FBA50A2VEB   | x3 | RZAG140N7V1B |              |               | 30,4                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,089 x3 | 1,4 x3 |  |
| FBA71A2VEB   | x2 | RZAG140N7V1B |              |               | 28,7                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,070 x2 | 1,3 x2 |  |
| FBA140A2VEB  |    | RZAG140N7V1B |              |               | 30,1                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,187    | 3,9    |  |
| FNA35A2VEB   | x4 | RZAG140N7V1B |              |               | 28,1                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,034 x4 | 0,5 x4 |  |
| FNA50A2VEB   | x3 | RZAG140N7V1B |              |               | 27,6                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,060 x3 | 0,5 x3 |  |
| FUA71AVEB    | x2 | RZAG140N7V1B |              |               | 27,9                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,046 x2 | 0,9 x2 |  |
| FAA71AUVEB   | x2 | RZAG140N7V1B |              |               | 27,0                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,048 x2 | 0,5 x2 |  |
| FVA71AMVEB   | x2 | RZAG140N7V1B |              |               | 27,7                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,117 x2 | 0,8 x2 |  |
| FVA140AMVEB  |    | RZAG140N7V1B |              |               | 27,9                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,276    | 1,8    |  |
| FDXM35F3V1B  | x4 | RZAG140N7V1B |              |               | 27,2                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,034 x4 | 0,3 x4 |  |
| FDXM50F3V1B  | x3 | RZAG140N7V1B |              |               | 28,8                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,060 x3 | 0,9 x3 |  |
| FHA35AVEB    | x4 | RZAG140N7V1B |              |               | 28,5                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,060 x4 | 0,6 x4 |  |
| FHA50AVEB    | x3 | RZAG140N7V1B |              |               | 27,9                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,060 x3 | 0,6 x3 |  |
| FHA71AVEB    | x2 | RZAG140N7V1B |              |               | 27,7                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,091 x2 | 0,8 x2 |  |
| FHA140AVEB   |    | RZAG140N7V1B |              |               | 27,9                               | —    | 32  | —   | 23,6       | 0,234 | 1,4 | 0,150    | 1,8    |  |

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### RZAG-NY1

|              |                 |                      |                                    |         |      |      | Compressor |      | OFM   |       | IFM      |        |     |
|--------------|-----------------|----------------------|------------------------------------|---------|------|------|------------|------|-------|-------|----------|--------|-----|
| Indoor       | Outdoor         | Power supply         | Voltage range                      |         | MCA  | TOCA | MFA        | MSC  | RLA   | kW    | FLA      | kW     | FLA |
| FCAHG71HVEB  | RZAG71N7Y1B     | 3N~ 50Hz<br>380-415V | Minimum: -342 V<br>Maximum: -457 V |         | 11,1 | —    | 16         | —    | 9,2   | 0,234 | 0,8      | 0,091  | 0,7 |
| FCAG35BVEB   | x2 RZAG71N7Y1B  |                      |                                    | 11,0    | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,044 x2 | 0,3 x2 |     |
| FCAG71BVEB   | RZAG71N7Y1B     |                      |                                    | 10,8    | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,054    | 0,4    |     |
| FFA35A2VEB   | x2 RZAG71N7Y1B  |                      |                                    | 10,8    | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,050 x2 | 0,2 x2 |     |
| FBA35A2VEB   | x2 RZAG71N7Y1B  |                      |                                    | (10,4)* | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,089 x2 | 1,4 x2 |     |
| FBA71A2VEB   | RZAG71N7Y1B     |                      |                                    | (10,4)* | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,070    | 1,3    |     |
| FNA35A2VEB   | x2 RZAG71N7Y1B  |                      |                                    | 11,4    | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,034 x2 | 0,5 x2 |     |
| FUA71AVEB    | RZAG71N7Y1B     |                      |                                    | 11,3    | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,046    | 0,9    |     |
| FAA71AUEB    | RZAG71N7Y1B     |                      |                                    | 10,9    | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,048    | 0,5    |     |
| FVA71AMVEB   | RZAG71N7Y1B     |                      |                                    | 11,2    | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,117    | 0,8    |     |
| FDXM35F3V1B  | x2 RZAG71N7Y1B  |                      |                                    | 11,0    | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,034 x2 | 0,3 x2 |     |
| FHA35AVEB    | x2 RZAG71N7Y1B  |                      |                                    | 11,6    | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,060 x2 | 0,6 x2 |     |
| FHA71AVEB    | RZAG71N7Y1B     |                      |                                    | 11,2    | —    | 16   | —          | 9,2  | 0,234 | 0,8   | 0,091    | 0,8    |     |
| FCAHG100HVEB | RZAG100N7Y1B    | 3N~ 50Hz<br>380-415V | Minimum: -342 V<br>Maximum: -457 V |         | 14,9 | —    | 16         | —    | 11,8  | 0,234 | 1,2      | 0,221  | 1,3 |
| FCAG35BVEB   | x3 RZAG100N7Y1B |                      |                                    | 13,0    | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,044 x3 | 0,3 x3 |     |
| FCAG50BVEB   | x2 RZAG100N7Y1B |                      |                                    | 12,7    | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,039 x2 | 0,3 x2 |     |
| FCAG100BVEB  | RZAG100N7Y1B    |                      |                                    | 14,2    | —    | 16   | —          | 11,8 | 0,234 | 1,2   | 0,117    | 0,7    |     |
| FFA35A2VEB   | x3 RZAG100N7Y1B |                      |                                    | 12,7    | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,050 x3 | 0,2 x3 |     |
| FFA50A2VEB   | x2 RZAG100N7Y1B |                      |                                    | 12,9    | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,050 x2 | 0,4 x2 |     |
| FBA35A2VEB   | x3 RZAG100N7Y1B |                      |                                    | (12,1)* | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,089 x3 | 1,4 x3 |     |
| FBA50A2VEB   | x2 RZAG100N7Y1B |                      |                                    | (12,1)* | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,089 x2 | 1,4 x2 |     |
| FBA100A2VEB  | RZAG100N7Y1B    |                      |                                    | (13,5)* | —    | 16   | —          | 11,8 | 0,234 | 1,2   | 0,127    | 3,5    |     |
| FNA35A2VEB   | x3 RZAG100N7Y1B |                      |                                    | 13,6    | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,034 x3 | 0,5 x3 |     |
| FNA50A2VEB   | x2 RZAG100N7Y1B |                      |                                    | 13,1    | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,060 x2 | 0,5 x2 |     |
| FUA100AVEB   | RZAG100N7Y1B    |                      |                                    | 14,9    | —    | 16   | —          | 11,8 | 0,234 | 1,2   | 0,106    | 1,3    |     |
| FAA100AUEB   | RZAG100N7Y1B    |                      |                                    | 14,0    | —    | 16   | —          | 11,8 | 0,234 | 1,2   | 0,064    | 0,5    |     |
| FVA100AMVEB  | RZAG100N7Y1B    |                      |                                    | 15,1    | —    | 16   | —          | 11,8 | 0,234 | 1,2   | 0,238    | 1,5    |     |
| FDXM35F3V1B  | x3 RZAG100N7Y1B |                      |                                    | 13,0    | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,034 x3 | 0,3 x3 |     |
| FDXM50F3V1B  | x2 RZAG100N7Y1B |                      |                                    | 13,9    | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,060 x2 | 0,9 x2 |     |
| FHA35AVEB    | x3 RZAG100N7Y1B |                      |                                    | 13,9    | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,060 x3 | 0,6 x3 |     |
| FHA50AVEB    | x2 RZAG100N7Y1B |                      |                                    | 13,3    | —    | 16   | —          | 10,4 | 0,234 | 1,2   | 0,060 x2 | 0,6 x2 |     |
| FHA100AVEB   | RZAG100N7Y1B    |                      |                                    | 14,9    | —    | 16   | —          | 11,8 | 0,234 | 1,2   | 0,150    | 1,3    |     |

\* Use a separate power supply for the indoor unit. The value between brackets is the MCA of the outdoor unit. For the MCA of the indoor unit, see the installation manual of the indoor unit.

3D120943

# 3 Electrical data

## 3 - 1 Electrical Data

### RZAG-NY1

|              |                 | Power supply         | Voltage range                      | MCA     | TOCA | MFA | Compressor |      | OFM   |     | IFM      |        |
|--------------|-----------------|----------------------|------------------------------------|---------|------|-----|------------|------|-------|-----|----------|--------|
| Indoor       | Outdoor         |                      |                                    |         |      |     | MSC        | RLA  | kW    | FLA | kW       | FLA    |
| FCAHG125HVEB | RZAG125N7Y1B    | 3N~ 50Hz<br>380-415V | Minimum: 342 V.<br>Maximum: 457 V. | 15,0    | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,244    | 1,4    |
| FCAG35BVEB   | x4 RZAG125N7Y1B |                      |                                    | 12,2    | —    | 16  | —          | 9,3  | 0,234 | 1,2 | 0,044 x4 | 0,3 x4 |
| FCAG50BVEB   | x3 RZAG125N7Y1B |                      |                                    | 12,9    | —    | 16  | —          | 10,3 | 0,234 | 1,2 | 0,039 x3 | 0,3 x3 |
| FCAG60BVEB   | x2 RZAG125N7Y1B |                      |                                    | 14,1    | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,044 x2 | 0,3 x2 |
| FCAG125BVEB  | RZAG125N7Y1B    |                      |                                    | 14,6    | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,168    | 1,0    |
| FFA35A2VEB   | x4 RZAG125N7Y1B |                      |                                    | 11,8    | —    | 16  | —          | 9,3  | 0,234 | 1,2 | 0,050 x4 | 0,2 x4 |
| FFA50A2VEB   | x3 RZAG125N7Y1B |                      |                                    | 13,2    | —    | 16  | —          | 10,3 | 0,234 | 1,2 | 0,050 x3 | 0,4 x3 |
| FFA60A2VEB   | x2 RZAG125N7Y1B |                      |                                    | 14,8    | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,050 x2 | 0,6 x2 |
| FBA35A2VEB   | x4 RZAG125N7Y1B |                      |                                    | (10,9)* | —    | 16  | —          | 9,3  | 0,234 | 1,2 | 0,089 x4 | 1,4 x4 |
| FBA50A2VEB   | x3 RZAG125N7Y1B |                      |                                    | (12,0)* | —    | 16  | —          | 10,3 | 0,234 | 1,2 | 0,089 x3 | 1,4 x3 |
| FBA60A2VEB   | x2 RZAG125N7Y1B |                      |                                    | (13,5)* | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,070 x2 | 1,3 x2 |
| FBA125A2VEB  | RZAG125N7Y1B    |                      |                                    | (13,5)* | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,187    | 3,9    |
| FNA35A2VEB   | x4 RZAG125N7Y1B |                      |                                    | 13,0    | —    | 16  | —          | 9,3  | 0,234 | 1,2 | 0,034 x4 | 0,5 x4 |
| FNA50A2VEB   | x3 RZAG125N7Y1B |                      |                                    | 13,5    | —    | 16  | —          | 10,3 | 0,234 | 1,2 | 0,060 x3 | 0,5 x3 |
| FNA60A2VEB   | x2 RZAG125N7Y1B |                      |                                    | 14,8    | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,060 x2 | 0,6 x2 |
| FUA125AVEB   | RZAG125N7Y1B    |                      |                                    | 15,0    | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,106    | 1,4    |
| FDA125AVEB   | RZAG125N7Y1B    |                      |                                    | 15,7    | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,350    | 2,1    |
| FVA125AMVEB  | RZAG125N7Y1B    |                      |                                    | 15,1    | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,238    | 1,5    |
| FDXM35F3V1B  | x4 RZAG125N7Y1B |                      |                                    | 12,2    | —    | 16  | —          | 9,3  | 0,234 | 1,2 | 0,034 x4 | 0,3 x4 |
| FDXM50F3V1B  | x3 RZAG125N7Y1B |                      |                                    | 14,8    | —    | 16  | —          | 10,3 | 0,234 | 1,2 | 0,060 x3 | 0,9 x3 |
| FDXM60F3V1B  | x2 RZAG125N7Y1B |                      |                                    | 15,4    | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,060 x2 | 0,9 x2 |
| FHA35AVEB    | x4 RZAG125N7Y1B |                      |                                    | 13,4    | —    | 16  | —          | 9,3  | 0,234 | 1,2 | 0,060 x4 | 0,6 x4 |
| FHA50AVEB    | x3 RZAG125N7Y1B |                      |                                    | 13,8    | —    | 16  | —          | 10,3 | 0,234 | 1,2 | 0,060 x3 | 0,6 x3 |
| FHA60AVEB    | x2 RZAG125N7Y1B |                      |                                    | 14,8    | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,091 x2 | 0,6 x2 |
| FHA125AVEB   | RZAG125N7Y1B    |                      |                                    | 15,1    | —    | 16  | —          | 11,8 | 0,234 | 1,2 | 0,150    | 1,5    |
| FCAHG71HVEB  | x2 RZAG140N7Y1B | 3N~ 50Hz<br>380-415V | Minimum: 342 V.<br>Maximum: 457 V. | 15,0    | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,091 x2 | 0,7 x2 |
| FCAHG140HVEB | RZAG140N7Y1B    |                      |                                    | 15,0    | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,244    | 1,4    |
| FCAG35BVEB   | x4 RZAG140N7Y1B |                      |                                    | 12,2    | —    | 16  | —          | 9,1  | 0,234 | 1,4 | 0,044 x4 | 0,3 x4 |
| FCAG50BVEB   | x3 RZAG140N7Y1B |                      |                                    | 12,9    | —    | 16  | —          | 10,1 | 0,234 | 1,4 | 0,039 x3 | 0,3 x3 |
| FCAG71BVEB   | x2 RZAG140N7Y1B |                      |                                    | 14,4    | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,054 x2 | 0,4 x2 |
| FCAG140BVEB  | RZAG140N7Y1B    |                      |                                    | 14,9    | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,168    | 1,3    |
| FFA35A2VEB   | x4 RZAG140N7Y1B |                      |                                    | 11,8    | —    | 16  | —          | 9,1  | 0,234 | 1,4 | 0,050 x4 | 0,2 x4 |
| FFA50A2VEB   | x3 RZAG140N7Y1B |                      |                                    | 13,2    | —    | 16  | —          | 10,1 | 0,234 | 1,4 | 0,050 x3 | 0,4 x3 |
| FBA35A2VEB   | x4 RZAG140N7Y1B |                      |                                    | (10,9)* | —    | 16  | —          | 9,1  | 0,234 | 1,4 | 0,089 x4 | 1,4 x4 |
| FBA50A2VEB   | x3 RZAG140N7Y1B |                      |                                    | (12,0)* | —    | 16  | —          | 10,1 | 0,234 | 1,4 | 0,089 x3 | 1,4 x3 |
| FBA71A2VEB   | x2 RZAG140N7Y1B |                      |                                    | (13,5)* | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,070 x2 | 1,3 x2 |
| FBA140A2VEB  | RZAG140N7Y1B    |                      |                                    | (13,5)* | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,187    | 3,9    |
| FNA35A2VEB   | x4 RZAG140N7Y1B |                      |                                    | 13,0    | —    | 16  | —          | 9,1  | 0,234 | 1,4 | 0,034 x4 | 0,5 x4 |
| FNA50A2VEB   | x3 RZAG140N7Y1B |                      |                                    | 13,5    | —    | 16  | —          | 10,1 | 0,234 | 1,4 | 0,060 x3 | 0,5 x3 |
| FUA71AVEB    | x2 RZAG140N7Y1B |                      |                                    | 15,4    | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,046 x2 | 0,9 x2 |
| FAA71AUVEB   | x2 RZAG140N7Y1B |                      |                                    | 14,6    | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,048 x2 | 0,5 x2 |
| FVA71AMVEB   | x2 RZAG140N7Y1B |                      |                                    | 15,2    | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,117 x2 | 0,8 x2 |
| FVA140AMVEB  | RZAG140N7Y1B    |                      |                                    | 15,4    | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,276    | 1,8    |
| FDXM35F3V1B  | x4 RZAG140N7Y1B |                      |                                    | 12,2    | —    | 16  | —          | 9,1  | 0,234 | 1,4 | 0,034 x4 | 0,3 x4 |
| FDXM50F3V1B  | x3 RZAG140N7Y1B |                      |                                    | 14,8    | —    | 16  | —          | 10,1 | 0,234 | 1,4 | 0,060 x3 | 0,9 x3 |
| FHA35AVEB    | x4 RZAG140N7Y1B |                      |                                    | 13,4    | —    | 16  | —          | 9,1  | 0,234 | 1,4 | 0,060 x4 | 0,6 x4 |
| FHA50AVEB    | x3 RZAG140N7Y1B |                      |                                    | 13,8    | —    | 16  | —          | 10,1 | 0,234 | 1,4 | 0,060 x3 | 0,6 x3 |
| FHA71AVEB    | x2 RZAG140N7Y1B |                      |                                    | 15,2    | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,091 x2 | 0,8 x2 |
| FHA140AVEB   | RZAG140N7Y1B    |                      |                                    | 15,4    | —    | 16  | —          | 11,6 | 0,234 | 1,4 | 0,150    | 1,8    |

\* Use a separate power supply for the indoor unit. The value between brackets is the MCA of the outdoor unit. For the MCA of the indoor unit, see the installation manual of the indoor unit.

3D120943

### RZAG-NV1 RZAG-NY1

#### Symbols

MCA: Minimum Circuit Ampere [A]  
TOCA: Total overcurrent amps [A]  
MFA: Maximum Fuse Ampere [A]  
MSC: Maximum current of the starting compressor [A]  
RLA: Rated load amps [A]  
OFM: Outdoor fan motor  
IFM: Indoor fan motor  
FLA: Full Load Ampere [A]  
KW: Fan motor rated output [kW]

#### Notes

- The ·RLA· is based on the following conditions.  
Cooling  
Indoor temperature ·27.0·°C DB / ·19.0·°C WB  
Outdoor temperature ·35.0·°C DB  
Heating  
Indoor temperature ·20.0·°C DB  
Outdoor temperature ·7.0·°C DB / ·6.0·°C WB
- TOCA· is the total value of each overcurrent set.
- Voltage range  
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
- The maximum allowable voltage that is unbalanced between phases is ·2·%.
- MCA· is the maximum input current.  
The capacity of the ·MFA· must be greater than that of the ·MCA·.  
Select the ·MFA· according to the table.
- Select the wire size according to the MCA.
- MFA· is used to select the circuit breaker and the ground fault circuit interruptor.  
Earth leakage circuit breaker

3D120944

# 3 Electrical data

## 3 - 1 Electrical Data

### RZAG-NV1

| Indoor       | Outdoor         | Power supply       | Voltage range                       |  | MCA  | TOCA | MFA | Compressor |      | OFM   |         | IFM      |        |
|--------------|-----------------|--------------------|-------------------------------------|--|------|------|-----|------------|------|-------|---------|----------|--------|
|              |                 |                    |                                     |  |      |      |     | MSC        | RLA  | kW    | FLA     | kW       | FLA    |
| FCAHG100HVEB | RZAG71N7V1B     | 50Hz ~<br>220-240V | Minimum: -198 V.<br>Maximum: 264 V. |  | 18,3 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,221    | 1,3    |
| FCAG35BVEB   | x3 RZAG71N7V1B  |                    |                                     |  | 17,9 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,044 x3 | 0,3 x3 |
| FCAG50BVEB   | x2 RZAG71N7V1B  |                    |                                     |  | 17,6 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,039 x2 | 0,3 x2 |
| FCAG100BVEB  | RZAG71N7V1B     |                    |                                     |  | 17,7 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,117    | 0,7    |
| FFA35A2VEB   | x3 RZAG71N7V1B  |                    |                                     |  | 17,6 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,050 x3 | 0,2 x3 |
| FFA50A2VEB   | x2 RZAG71N7V1B  |                    |                                     |  | 17,8 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,050 x2 | 0,4 x2 |
| FBA35A2VEB   | x3 RZAG71N7V1B  |                    |                                     |  | 21,3 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,089 x3 | 1,4 x3 |
| FBA50A2VEB   | x2 RZAG71N7V1B  |                    |                                     |  | 19,9 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,089 x2 | 1,4 x2 |
| FBA100A2VEB  | RZAG71N7V1B     |                    |                                     |  | 20,6 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,127    | 3,5    |
| FUA100AVEB   | RZAG71N7V1B     |                    |                                     |  | 18,3 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,106    | 1,3    |
| FAA100AVEB   | RZAG71N7V1B     |                    |                                     |  | 17,5 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,064    | 0,5    |
| FVA100AMVEB  | RZAG71N7V1B     |                    |                                     |  | 18,5 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,238    | 1,5    |
| FDXM35F3V1B  | x3 RZAG71N7V1B  |                    |                                     |  | 17,9 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,034 x3 | 0,3 x3 |
| FDXM50F3V1B  | x2 RZAG71N7V1B  |                    |                                     |  | 18,8 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,060 x2 | 0,9 x2 |
| FHA35AVEB    | x3 RZAG71N7V1B  |                    |                                     |  | 18,8 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,060 x3 | 0,6 x3 |
| FHA50AVEB    | x2 RZAG71N7V1B  |                    |                                     |  | 18,2 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,060 x2 | 0,6 x2 |
| FHA100AVEB   | RZAG71N7V1B     |                    |                                     |  | 18,3 | —    | 20  | —          | 15,5 | 0,234 | 0,8     | 0,15     | 1,3    |
| FCAHG71HVEB  | x2 RZAG100N7V1B | 50Hz ~<br>220-240V | Minimum: -198 V.<br>Maximum: 264 V. |  | 22,3 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,091 x2 | 0,7 x2 |
| FCAHG140HVEB | RZAG100N7V1B    |                    |                                     |  | 22,3 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,244    | 1,4    |
| FCAG35BVEB   | x4 RZAG100N7V1B |                    |                                     |  | 22,0 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,044 x4 | 0,3 x4 |
| FCAG50BVEB   | x3 RZAG100N7V1B |                    |                                     |  | 21,7 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,039 x3 | 0,3 x3 |
| FCAG71BVEB   | x2 RZAG100N7V1B |                    |                                     |  | 21,6 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,054 x2 | 0,4 x2 |
| FCAG140BVEB  | RZAG100N7V1B    |                    |                                     |  | 22,2 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,168    | 1,3    |
| FFA35A2VEB   | x4 RZAG100N7V1B |                    |                                     |  | 21,6 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,050 x4 | 0,8    |
| FFA50A2VEB   | x3 RZAG100N7V1B |                    |                                     |  | 22,0 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,050 x3 | 0,4 x3 |
| FBA35A2VEB   | x4 RZAG100N7V1B |                    |                                     |  | 26,6 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,089 x4 | 1,4 x4 |
| FBA50A2VEB   | x3 RZAG100N7V1B |                    |                                     |  | 25,2 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,089 x3 | 1,4 x3 |
| FBA71A2VEB   | x2 RZAG100N7V1B |                    |                                     |  | 23,5 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,07 x2  | 1,3 x2 |
| FBA140A2VEB  | RZAG100N7V1B    |                    |                                     |  | 24,9 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,187    | 3,9    |
| FUA71AVEB    | x2 RZAG100N7V1B |                    |                                     |  | 22,7 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,046 x2 | 0,9 x2 |
| FAA71AVEB    | x2 RZAG100N7V1B |                    |                                     |  | 21,8 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,048 x2 | 0,5 x2 |
| FVA140AMVEB  | RZAG100N7V1B    |                    |                                     |  | 22,7 | —    | 32  | —          | 18,8 | 0,234 | 1,2     | 0,276    | 1,8    |
| FDXM35F3V1B  | x4 RZAG100N7V1B |                    |                                     |  | 22,0 | —    | 32  | —          | 18,8 | 0,234 | 1,19523 | 0,034 x4 | 0,3 x4 |
| FDXM50F3V1B  | x3 RZAG100N7V1B |                    |                                     |  | 23,6 | —    | 32  | —          | 18,8 | 0,234 | 1,19523 | 0,060 x3 | 0,9 x3 |
| FHA35AVEB    | x4 RZAG100N7V1B |                    |                                     |  | 23,3 | —    | 32  | —          | 18,8 | 0,234 | 1,19523 | 0,060 x4 | 0,6 x4 |
| FHA50AVEB    | x3 RZAG100N7V1B |                    |                                     |  | 22,7 | —    | 32  | —          | 18,8 | 0,234 | 1,19523 | 0,060 x3 | 0,6 x3 |
| FHA71AVEB    | x2 RZAG100N7V1B |                    |                                     |  | 22,5 | —    | 32  | —          | 18,8 | 0,234 | 1,19523 | 0,091 x2 | 0,8 x2 |
| FHA140AVEB   | RZAG100N7V1B    |                    |                                     |  | 22,7 | —    | 32  | —          | 18,8 | 0,234 | 1,19523 | 0,15     | 1,8    |

3D120944

### RZAG-NV1

| Indoor       | Outdoor         | Power supply       | Voltage range                       |  | MCA  | TOCA | MFA | Compressor |      | OFM   |         | IFM      |        |
|--------------|-----------------|--------------------|-------------------------------------|--|------|------|-----|------------|------|-------|---------|----------|--------|
|              |                 |                    |                                     |  |      |      |     | MSC        | RLA  | kW    | FLA     | kW       | FLA    |
| FCAHG71HVEB  | x2 RZAG125N7V1B | 50Hz ~<br>220-240V | Minimum: -198 V.<br>Maximum: 264 V. |  | 27,5 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,091 x2 | 0,7 x2 |
| FCAHG140HVEB | RZAG125N7V1B    |                    |                                     |  | 27,5 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,244    | 1,4    |
| FCAG35BVEB   | x4 RZAG125N7V1B |                    |                                     |  | 27,2 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,044 x4 | 0,3 x4 |
| FCAG50BVEB   | x3 RZAG125N7V1B |                    |                                     |  | 26,9 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,039 x3 | 0,3 x3 |
| FCAG71BVEB   | x2 RZAG125N7V1B |                    |                                     |  | 26,8 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,054 x2 | 0,4 x2 |
| FCAG140BVEB  | RZAG125N7V1B    |                    |                                     |  | 27,4 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,168    | 1,3    |
| FFA35A2VEB   | x4 RZAG125N7V1B |                    |                                     |  | 26,8 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,050 x4 | 0,2 x4 |
| FFA50A2VEB   | x3 RZAG125N7V1B |                    |                                     |  | 27,2 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,050 x3 | 0,4 x3 |
| FBA35A2VEB   | x4 RZAG125N7V1B |                    |                                     |  | 31,8 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,089 x4 | 1,4 x4 |
| FBA50A2VEB   | x3 RZAG125N7V1B |                    |                                     |  | 30,4 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,089 x3 | 1,4 x3 |
| FBA71A2VEB   | x2 RZAG125N7V1B |                    |                                     |  | 28,7 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,07 x2  | 1,3 x2 |
| FBA140A2VEB  | RZAG125N7V1B    |                    |                                     |  | 30,1 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,187    | 3,9    |
| FUA71AVEB    | x2 RZAG125N7V1B |                    |                                     |  | 27,9 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,046 x2 | 0,9 x2 |
| FAA71AVEB    | x2 RZAG125N7V1B |                    |                                     |  | 27,0 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,048 x2 | 0,5 x2 |
| FVA140AMVEB  | RZAG125N7V1B    |                    |                                     |  | 27,9 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,276    | 1,8    |
| FDXM35F3V1B  | x4 RZAG125N7V1B |                    |                                     |  | 27,2 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,034 x4 | 0,3 x4 |
| FDXM50F3V1B  | x3 RZAG125N7V1B |                    |                                     |  | 28,8 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,060 x3 | 0,9 x3 |
| FHA35AVEB    | x4 RZAG125N7V1B |                    |                                     |  | 28,5 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,060 x4 | 0,6 x4 |
| FHA50AVEB    | x3 RZAG125N7V1B |                    |                                     |  | 27,9 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,060 x3 | 0,6 x3 |
| FHA71AVEB    | x2 RZAG125N7V1B |                    |                                     |  | 27,7 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,091 x2 | 0,8 x2 |
| FHA140AVEB   | RZAG125N7V1B    |                    |                                     |  | 27,9 | —    | 32  | —          | 23,8 | 0,234 | 1,2     | 0,15     | 1,8    |
| FCAHG71HVEB  | x2 RZAG140N7V1B | 50Hz ~<br>220-240V | Minimum: -198 V.<br>Maximum: 264 V. |  | 27,5 | —    | 32  | —          | 23,6 | 0,234 | 1,4     | 0,091 x2 | 0,7 x2 |
| FCAHG140HVEB | RZAG140N7V1B    |                    |                                     |  | 27,5 | —    | 32  | —          | 23,6 | 0,234 | 1,4     | 0,244    | 1,4    |
| FCAG35BVEB   | x4 RZAG140N7V1B |                    |                                     |  | 27,2 | —    | 32  | —          | 23,6 | 0,234 | 1,4     | 0,044 x4 | 0,3 x4 |
| FCAG50BVEB   | x3 RZAG140N7V1B |                    |                                     |  | 26,9 | —    | 32  | —          | 23,6 | 0,234 | 1,4     | 0,039 x3 | 0,3 x3 |
| FCAG71BVEB   | x2 RZAG140N7V1B |                    |                                     |  | 26,8 | —    | 32  | —          | 23,6 | 0,234 | 1,4     | 0,054 x2 | 0,4 x2 |
| FCAG140BVEB  | RZAG140N7V1B    |                    |                                     |  | 27,4 | —    | 32  | —          | 23,6 | 0,234 | 1,4     | 0,168    | 1,3    |
| FFA35A2VEB   | x4 RZAG140N7V1B |                    |                                     |  | 26,8 | —    | 32  | —          | 23,6 | 0,234 | 1,4     | 0,050 x4 | 0,2 x4 |
| FFA50A2VEB   | x3 RZAG140N7V1B |                    |                                     |  | 27,2 | —    | 32  | —          | 23,6 | 0,234 | 1,4     | 0,050 x3 | 0,4 x3 |
| FBA35A2VEB   | x4 RZAG140N7V1B |                    |                                     |  | 31,8 | —    | 32  | —          | 23,6 | 0,234 | 1,4     | 0,089 x4 | 1,4 x4 |
| FBA50A2VEB   | x3 RZAG140N7V1B |                    |                                     |  | 30,4 | —    | 32  | —          | 23,6 | 0,234 | 1,4     | 0,089 x3 | 1,4 x3 |
| FBA71A2VEB   | x2 RZAG140N7V1B |                    |                                     |  | 28,7 | —    | 32  | —          | 23,6 | 0,234 | 1,4     | 0,07 x2  | 1,3 x2 |
| FBA140A2VEB  | RZAG140N7V1B    |                    |                                     |  | 30,1 | —    | 32  | —          | 23,6 | 0,234 | 1,41271 | 0,187    | 3,9    |
| FUA71AVEB    | x2 RZAG140N7V1B |                    |                                     |  | 27,9 | —    | 32  | —          | 23,6 | 0,234 | 1,41271 | 0,046 x2 | 0,9 x2 |
| FAA71AVEB    | x2 RZAG140N7V1B |                    |                                     |  | 27,0 | —    | 32  | —          | 23,6 | 0,234 | 1,41271 | 0,048 x2 | 0,5 x2 |
| FVA140AMVEB  | RZAG140N7V1B    |                    |                                     |  | 27,9 | —    | 32  | —          | 23,6 | 0,234 | 1,41271 | 0,276    | 1,8    |
| FDXM35F3V1B  | x4 RZAG140N7V1B |                    |                                     |  | 27,2 | —    | 32  | —          | 23,6 | 0,234 | 1,41271 | 0,034 x4 | 0,3 x4 |
| FDXM50F3V1B  | x3 RZAG140N7V1B |                    |                                     |  | 28,8 | —    | 32  | —          | 23,6 | 0,234 | 1,41271 | 0,060 x3 | 0,9 x3 |
| FHA35AVEB    | x4 RZAG140N7V1B |                    |                                     |  | 28,5 | —    | 32  | —          | 23,6 | 0,234 | 1,41271 | 0,060 x4 | 0,6 x4 |
| FHA50AVEB    | x3 RZAG140N7V1B |                    |                                     |  | 27,9 | —    | 32  | —          | 23,6 | 0,234 | 1,41271 | 0,060 x3 | 0,6 x3 |
| FHA71AVEB    | x2 RZAG140N7V1B |                    |                                     |  | 27,7 | —    | 32  | —          | 23,6 | 0,234 | 1,41271 | 0,091 x2 | 0,8 x2 |
| FHA140AVEB   | RZAG140N7V1B    |                    |                                     |  | 27,9 | —    | 32  | —          | 23,6 | 0,234 | 1,41271 | 0,15     | 1,8    |

3D120944

# 3 Electrical data

## 3 - 1 Electrical Data

### RZAG-NY1

|              |    |              |                      |                                      |         |     | Compressor |       | OFM     |          | IFM     |          |        |     |
|--------------|----|--------------|----------------------|--------------------------------------|---------|-----|------------|-------|---------|----------|---------|----------|--------|-----|
| Indoor       |    | Outdoor      | Power supply         | Voltage range                        |         | MCA | TOCA       | MFA   | MSC     | RLA      | kW      | FLA      | kW     | FLA |
| FCAHG100HVEB |    | RZAG71N7Y1B  | 3N- 50Hz<br>380-415V | Minimum: -342 V.<br>Maximum: -456 V. | 11,8    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,221    | 1,3    |     |
| FCAG35BVEB   | x3 | RZAG71N7Y1B  |                      |                                      | 11,3    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,044 x3 | 0,3 x3 |     |
| FCAG50BVEB   | x2 | RZAG71N7Y1B  |                      |                                      | 11,0    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,039 x2 | 0,3 x2 |     |
| FCAG100BVEB  |    | RZAG71N7Y1B  |                      |                                      | 11,1    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,117    | 0,7    |     |
| FFA35A2VEB   | x3 | RZAG71N7Y1B  |                      |                                      | 11,0    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,050 x3 | 0,2 x3 |     |
| FFA50A2VEB   | x2 | RZAG71N7Y1B  |                      |                                      | 11,2    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,050 x2 | 0,4 x2 |     |
| FBA35A2VEB   | x3 | RZAG71N7Y1B  |                      |                                      | (10,4)* | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,089 x3 | 1,4 x3 |     |
| FBA50A2VEB   | x2 | RZAG71N7Y1B  |                      |                                      | (10,4)* | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,089 x2 | 1,4 x2 |     |
| FBA100A2VEB  |    | RZAG71N7Y1B  |                      |                                      | (10,4)* | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,127    | 3,5    |     |
| FUA100AVEB   |    | RZAG71N7Y1B  |                      |                                      | 11,8    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,106    | 1,3    |     |
| FAA100AUVEB  |    | RZAG71N7Y1B  |                      |                                      | 10,9    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,064    | 0,5    |     |
| FVA100AMVEB  |    | RZAG71N7Y1B  |                      |                                      | 12,0    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,238    | 1,5    |     |
| FDXM35F3V1B  | x3 | RZAG71N7Y1B  |                      |                                      | 11,3    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,034 x3 | 0,3 x3 |     |
| FDXM50F3V1B  | x2 | RZAG71N7Y1B  |                      |                                      | 12,3    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,060 x2 | 0,9 x2 |     |
| FHA35AVEB    | x3 | RZAG71N7Y1B  |                      |                                      | 12,3    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,060 x3 | 0,6 x3 |     |
| FHA50AVEB    | x2 | RZAG71N7Y1B  |                      |                                      | 11,6    | —   | 16         | —     | 9,2     | 0,234    | 0,8     | 0,060 x2 | 0,6 x2 |     |
| FHA100AVEB   |    | RZAG71N7Y1B  | 11,8                 | —                                    | 16      | —   | 9,2        | 0,234 | 0,8     | 0,15     | 1,3     |          |        |     |
| FCAHG71HVEB  | x2 | RZAG100N7Y1B | 3N- 50Hz<br>380-415V | Minimum: -342 V.<br>Maximum: -456 V. | 13,5    | —   | 16         | —     | 10,4    | 0,234    | 1,2     | 0,091 x2 | 0,7 x2 |     |
| FCAHG140HVEB |    | RZAG100N7Y1B |                      |                                      | 15,0    | —   | 16         | —     | 11,8    | 0,234    | 1,2     | 0,244    | 1,4    |     |
| FCAG35BVEB   | x4 | RZAG100N7Y1B |                      |                                      | 13,3    | —   | 16         | —     | 10,4    | 0,234    | 1,2     | 0,044 x4 | 0,3 x4 |     |
| FCAG50BVEB   | x3 | RZAG100N7Y1B |                      |                                      | 13,0    | —   | 16         | —     | 10,4    | 0,234    | 1,2     | 0,039 x3 | 0,3 x3 |     |
| FCAG71BVEB   | x2 | RZAG100N7Y1B |                      |                                      | 12,9    | —   | 16         | —     | 10,4    | 0,234    | 1,2     | 0,054 x2 | 0,4 x2 |     |
| FCAG140BVEB  |    | RZAG100N7Y1B |                      |                                      | 14,9    | —   | 16         | —     | 11,8    | 0,234    | 1,2     | 0,168    | 1,3    |     |
| FFA35A2VEB   | x4 | RZAG100N7Y1B |                      |                                      | 12,9    | —   | 16         | —     | 10,4    | 0,234    | 1,2     | 0,050 x4 | 0,8    |     |
| FFA50A2VEB   | x3 | RZAG100N7Y1B |                      |                                      | 13,3    | —   | 16         | —     | 10,4    | 0,234    | 1,2     | 0,050 x3 | 0,4 x3 |     |
| FBA35A2VEB   | x4 | RZAG100N7Y1B |                      |                                      | (12,1)* | —   | 16         | —     | 10,4    | 0,234    | 1,2     | 0,089 x4 | 1,4 x4 |     |
| FBA50A2VEB   | x3 | RZAG100N7Y1B |                      |                                      | (12,1)* | —   | 16         | —     | 10,4    | 0,234    | 1,2     | 0,089 x3 | 1,4 x3 |     |
| FBA71A2VEB   | x2 | RZAG100N7Y1B |                      |                                      | (12,1)* | —   | 16         | —     | 10,4    | 0,234    | 1,2     | 0,07 x2  | 1,3 x2 |     |
| FBA140A2VEB  |    | RZAG100N7Y1B |                      |                                      | (13,5)* | —   | 16         | —     | 11,8    | 0,234    | 1,2     | 0,187    | 3,9    |     |
| FUA71AVEB    | x2 | RZAG100N7Y1B |                      |                                      | 13,9    | —   | 16         | —     | 10,4    | 0,234    | 1,2     | 0,046 x2 | 0,9 x2 |     |
| FAA71AUVEB   | x2 | RZAG100N7Y1B |                      |                                      | 13,1    | —   | 16         | —     | 10,4    | 0,234    | 1,2     | 0,048 x2 | 0,5 x2 |     |
| FVA140AMVEB  |    | RZAG100N7Y1B |                      |                                      | 15,4    | —   | 16         | —     | 11,8    | 0,234    | 1,2     | 0,276    | 1,8    |     |
| FDXM35F3V1B  | x4 | RZAG100N7Y1B |                      |                                      | 13,3    | —   | 16         | —     | 10,4    | 0,234    | 1,19523 | 0,034 x4 | 0,3 x4 |     |
| FDXM50F3V1B  | x3 | RZAG100N7Y1B | 14,9                 | —                                    | 16      | —   | 10,4       | 0,234 | 1,19523 | 0,060 x3 | 0,9 x3  |          |        |     |
| FHA35AVEB    | x4 | RZAG100N7Y1B | 14,6                 | —                                    | 16      | —   | 10,4       | 0,234 | 1,19523 | 0,060 x4 | 0,6 x4  |          |        |     |
| FHA50AVEB    | x3 | RZAG100N7Y1B | 13,9                 | —                                    | 16      | —   | 10,4       | 0,234 | 1,19523 | 0,060 x3 | 0,6 x3  |          |        |     |
| FHA71AVEB    | x2 | RZAG100N7Y1B | 13,7                 | —                                    | 16      | —   | 10,4       | 0,234 | 1,19523 | 0,091 x2 | 0,8 x2  |          |        |     |
| FHA140AVEB   |    | RZAG100N7Y1B | 15,4                 | —                                    | 16      | —   | 11,8       | 0,234 | 1,19523 | 0,15     | 1,8     |          |        |     |

\* Use a separate power supply for the indoor unit. The value between brackets is the MCA of the indoor unit. For the actual MCA value, see the installation manual of the indoor unit.

3D120944

### RZAG-NV1

|              |         |              |                      |                                      |         |      | Compressor |     | OFM  |       | IFM     |          |        |
|--------------|---------|--------------|----------------------|--------------------------------------|---------|------|------------|-----|------|-------|---------|----------|--------|
| Indoor       | Outdoor | Power supply | Voltage range        |                                      | MCA     | TOCA | MFA        | MSC | RLA  | kW    | FLA     | kW       | FLA    |
| FCAHG71HVEB  | x2      | RZAG125N7V1B | 3N~ 50Hz<br>380-415V | Minimum: -342 V.<br>Maximum: -456 V. | 15,0    | —    | 16         | —   | 11,8 | 0,234 | 1,2     | 0,091 x2 | 0,7 x2 |
| FCAHG140HVEB |         | RZAG125N7V1B |                      |                                      | 15,0    | —    | 16         | —   | 11,8 | 0,234 | 1,2     | 0,244    | 1,4    |
| FCAG35BVEB   | x4      | RZAG125N7V1B |                      |                                      | 12,2    | —    | 16         | —   | 9,3  | 0,234 | 1,2     | 0,044 x4 | 0,3 x4 |
| FCAG50BVEB   | x3      | RZAG125N7V1B |                      |                                      | 12,9    | —    | 16         | —   | 10,3 | 0,234 | 1,2     | 0,039 x3 | 0,3 x3 |
| FCAG71BVEB   | x2      | RZAG125N7V1B |                      |                                      | 14,4    | —    | 16         | —   | 11,8 | 0,234 | 1,2     | 0,054 x2 | 0,4 x2 |
| FCAG140BVEB  |         | RZAG125N7V1B |                      |                                      | 14,9    | —    | 16         | —   | 11,8 | 0,234 | 1,2     | 0,168    | 1,3    |
| FFA35A2VEB   | x4      | RZAG125N7V1B |                      |                                      | 11,8    | —    | 16         | —   | 9,3  | 0,234 | 1,2     | 0,050 x4 | 0,2 x4 |
| FFA50A2VEB   | x3      | RZAG125N7V1B |                      |                                      | 13,2    | —    | 16         | —   | 10,3 | 0,234 | 1,2     | 0,050 x3 | 0,4 x3 |
| FBA35A2VEB   | x4      | RZAG125N7V1B |                      |                                      | (10,9)* | —    | 16         | —   | 9,3  | 0,234 | 1,2     | 0,089 x4 | 1,4 x4 |
| FBA50A2VEB   | x3      | RZAG125N7V1B |                      |                                      | (12,0)* | —    | 16         | —   | 10,3 | 0,234 | 1,2     | 0,089 x3 | 1,4 x3 |
| FBA71A2VEB   | x2      | RZAG125N7V1B |                      |                                      | (13,5)* | —    | 16         | —   | 11,8 | 0,234 | 1,2     | 0,07 x2  | 1,3 x2 |
| FBA140A2VEB  |         | RZAG125N7V1B |                      |                                      | (13,5)* | —    | 16         | —   | 11,8 | 0,234 | 1,2     | 0,187    | 3,9    |
| FUA71AVEB    | x2      | RZAG125N7V1B |                      |                                      | 15,4    | —    | 16         | —   | 11,8 | 0,234 | 1,2     | 0,046 x2 | 0,9 x2 |
| FAA71AUVEB   | x2      | RZAG125N7V1B |                      |                                      | 14,6    | —    | 16         | —   | 11,8 | 0,234 | 1,2     | 0,048 x2 | 0,5 x2 |
| FVA140AMVEB  |         | RZAG125N7V1B |                      |                                      | 15,4    | —    | 16         | —   | 11,8 | 0,234 | 1,2     | 0,276    | 1,8    |
| FDXM35F3V1B  | x4      | RZAG125N7V1B |                      |                                      | 12,2    | —    | 16         | —   | 9,3  | 0,234 | 1,2     | 0,034 x4 | 0,3 x4 |
| FDXM50F3V1B  | x3      | RZAG125N7V1B |                      |                                      | 14,8    | —    | 16         | —   | 10,3 | 0,234 | 1,2     | 0,060 x3 | 0,9 x3 |
| FHA35AVEB    | x4      | RZAG125N7V1B |                      |                                      | 13,4    | —    | 16         | —   | 9,3  | 0,234 | 1,2     | 0,060 x4 | 0,6 x4 |
| FHA50AVEB    | x3      | RZAG125N7V1B |                      |                                      | 13,8    | —    | 16         | —   | 10,3 | 0,234 | 1,2     | 0,060 x3 | 0,6 x3 |
| FHA71AVEB    | x2      | RZAG125N7V1B |                      |                                      | 15,2    | —    | 16         | —   | 11,8 | 0,234 | 1,2     | 0,091 x2 | 0,8 x2 |
| FHA140AVEB   |         | RZAG125N7V1B |                      |                                      | 15,4    | —    | 16         | —   | 11,8 | 0,234 | 1,2     | 0,15     | 1,8    |
| FCAHG71HVEB  | x2      | RZAG140N7V1B | 3N~ 50Hz<br>380-415V | Minimum: -342 V.<br>Maximum: -456 V. | 15,0    | —    | 16         | —   | 11,6 | 0,234 | 1,4     | 0,091 x2 | 0,7 x2 |
| FCAHG140HVEB |         | RZAG140N7V1B |                      |                                      | 15,0    | —    | 16         | —   | 11,6 | 0,234 | 1,4     | 0,244    | 1,4    |
| FCAG35BVEB   | x4      | RZAG140N7V1B |                      |                                      | 12,2    | —    | 16         | —   | 9,1  | 0,234 | 1,4     | 0,044 x4 | 0,3 x4 |
| FCAG50BVEB   | x3      | RZAG140N7V1B |                      |                                      | 12,9    | —    | 16         | —   | 10,1 | 0,234 | 1,4     | 0,039 x3 | 0,3 x3 |
| FCAG71BVEB   | x2      | RZAG140N7V1B |                      |                                      | 14,4    | —    | 16         | —   | 11,6 | 0,234 | 1,4     | 0,054 x2 | 0,4 x2 |
| FCAG140BVEB  |         | RZAG140N7V1B |                      |                                      | 14,9    | —    | 16         | —   | 11,6 | 0,234 | 1,4     | 0,168    | 1,3    |
| FFA35A2VEB   | x4      | RZAG140N7V1B |                      |                                      | 11,8    | —    | 16         | —   | 9,1  | 0,234 | 1,4     | 0,050 x4 | 0,2 x4 |
| FFA50A2VEB   | x3      | RZAG140N7V1B |                      |                                      | 13,2    | —    | 16         | —   | 10,1 | 0,234 | 1,4     | 0,050 x3 | 0,4 x3 |
| FBA35A2VEB   | x4      | RZAG140N7V1B |                      |                                      | (10,9)* | —    | 16         | —   | 9,1  | 0,234 | 1,4     | 0,089 x4 | 1,4 x4 |
| FBA50A2VEB   | x3      | RZAG140N7V1B |                      |                                      | (12,0)* | —    | 16         | —   | 10,1 | 0,234 | 1,4     | 0,089 x3 | 1,4 x3 |
| FBA71A2VEB   | x2      | RZAG140N7V1B |                      |                                      | (13,5)* | —    | 16         | —   | 11,6 | 0,234 | 1,4     | 0,07 x2  | 1,3 x2 |
| FBA140A2VEB  |         | RZAG140N7V1B |                      |                                      | (13,5)* | —    | 16         | —   | 11,6 | 0,234 | 1,41171 | 0,187    | 3,9    |
| FUA71AVEB    | x2      | RZAG140N7V1B |                      |                                      | 15,4    | —    | 16         | —   | 11,6 | 0,234 | 1,41171 | 0,046 x2 | 0,9 x2 |
| FAA71AUVEB   | x2      | RZAG140N7V1B |                      |                                      | 14,6    | —    | 16         | —   | 11,6 | 0,234 | 1,41171 | 0,048 x2 | 0,5 x2 |
| FVA140AMVEB  |         | RZAG140N7V1B |                      |                                      | 15,4    | —    | 16         | —   | 11,6 | 0,234 | 1,41171 | 0,276    | 1,8    |
| FDXM35F3V1B  | x4      | RZAG140N7V1B |                      |                                      | 12,2    | —    | 16         | —   | 9,1  | 0,234 | 1,41171 | 0,034 x4 | 0,3 x4 |
| FDXM50F3V1B  | x3      | RZAG140N7V1B |                      |                                      | 14,8    | —    | 16         | —   | 10,1 | 0,234 | 1,41171 | 0,060 x3 | 0,9 x3 |
| FHA35AVEB    | x4      | RZAG140N7V1B |                      |                                      | 13,4    | —    | 16         | —   | 9,1  | 0,234 | 1,41171 | 0,060 x4 | 0,6 x4 |
| FHA50AVEB    | x3      | RZAG140N7V1B |                      |                                      | 13,8    | —    | 16         | —   | 10,1 | 0,234 | 1,41171 | 0,060 x3 | 0,6 x3 |
| FHA71AVEB    | x2      | RZAG140N7V1B |                      |                                      | 15,2    | —    | 16         | —   | 11,6 | 0,234 | 1,41171 | 0,091 x2 | 0,8 x2 |
| FHA140AVEB   |         | RZAG140N7V1B |                      |                                      | 15,4    | —    | 16         | —   | 11,6 | 0,234 | 1,41171 | 0,15     | 1,8    |

\* Use a separate power supply for the indoor unit. The value between brackets is the MCA of the indoor unit. For the actual MCA value, see the installation manual of the indoor unit.

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## 4 Options

### 4 - 1 Options

4

RZAG-NV1

RZAG-NY1

|              |              | EKBPH140N | EKMKSA2 | KHRQ58H | KHRQ58T | KHRQM58H | KHRQM58T | KRP58M51 | SB.KRP58M52 |
|--------------|--------------|-----------|---------|---------|---------|----------|----------|----------|-------------|
| RZAG71N7V1B  | RZAG71N7Y1B  | V         | V(1)    | V       | V(2)    | V        | V(2)     | V(1)     | V(1)        |
| RZAG100N7V1B | RZAG100N7Y1B | V         | V(1)    | V(3)    | V(2)    | V(3)     | V(2)     | V(1)     | V(1)        |
| RZAG125N7V1B | RZAG125N7Y1B | V         | V(1)    | V(3)    | V(2)    | V(3)     | V(2)     | V(1)     | V(1)        |
| RZAG140N7V1B | RZAG140N7Y1B | V         | V(1)    | V(3)    | V(2)    | V(3)     | V(2)     | V(1)     | V(1)        |

#### NOTES

1. To mount KRP58M51, an additional mounting kit (EKMKSA2) needs to be used (obligatory). This will be offered as sales bom  
SB.KRP58M52 = KRP58M51 + EKMKSA2
2. For twin combinations use 1 KHRQ(M)58T, for double twin use 3.
3. For triple combinations use 1 KHRQ(M)58H.

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## 5 Combination table

### 5 - 1 Combination Table

#### RZAG-NV1

#### RZAG-NY1

Comfort cooling combination table

Combinations: P = Pair  
2 = Twin  
3 = Triple  
4 = Double twin

| 4 = Double twin |                              |             |             |             |                     |            |            |            |                     |             |                             |             |                                        |              |              |              |                                      |             |                   |             |                        |             |                                   |             |                     |            |                               |            |            |            |            |            |           |            |            |            |            |            |            |   |   |   |  |  |
|-----------------|------------------------------|-------------|-------------|-------------|---------------------|------------|------------|------------|---------------------|-------------|-----------------------------|-------------|----------------------------------------|--------------|--------------|--------------|--------------------------------------|-------------|-------------------|-------------|------------------------|-------------|-----------------------------------|-------------|---------------------|------------|-------------------------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|---|---|---|--|--|
|                 | High COP round flow cassette |             |             |             | Round flow cassette |            |            |            | Fully flat cassette |             | Slim concealed ceiling unit |             | Concealed ceiling unit with medium ESP |              |              |              | Concealed ceiling unit with high ESP |             | Wall mounted unit |             | Ceiling suspended unit |             | 4-way blow ceiling suspended unit |             | Floor standing unit |            | Concealed floor standing unit |            |            |            |            |            |           |            |            |            |            |            |            |   |   |   |  |  |
|                 | FCAG71HVEB                   | FCAG100HVEB | FCAG125HVEB | FCAG140HVEB | FCAG35BVEB          | FCAG50BVEB | FCAG60BVEB | FCAG71BVEB | FCAG100BVEB         | FCAG125BVEB | FCAG140BVEB                 | FFA35A2VEB9 | FFA50A2VEB9                            | FDX135F3V1B9 | FDX150F3V1B9 | FDX160F3V1B9 | FBA35A2VEB9                          | FBA50A2VEB9 | FBA71A2VEB9       | FBA100A2VEB | FBA125A2VEB            | FBA140A2VEB | FDA125A5VEB                       | FDA140A5VEB | FAA71AUEB           | FAA100AUEB | FHA35AVEB9                    | FHA50AVEB9 | FHA71AVEB9 | FHA100AVEB | FHA125AVEB | FHA140AVEB | FUA71AVEB | FUA100AVEB | FUA125AVEB | FUA140AVEB | FVA100AVEB | FVA125AVEB | FVA140AVEB |   |   |   |  |  |
| RZAG71N7V1B     | P                            |             |             |             |                     |            |            |            |                     |             |                             | 2           | 2                                      |              |              |              |                                      |             |                   |             |                        |             |                                   |             |                     | P          |                               | 2          |            | P          |            |            |           |            |            |            |            |            |            |   |   |   |  |  |
| RZAG71N7Y1B     |                              |             |             |             |                     |            |            |            |                     |             |                             |             |                                        |              |              |              |                                      |             |                   |             |                        |             |                                   |             |                     |            |                               |            |            |            |            |            |           |            |            |            |            |            |            |   |   |   |  |  |
| RZAG100N7V1B    |                              | P           |             |             | 3                   | 2          |            | P          |                     |             |                             | 3           | 2                                      | 3            | 2            |              | 3                                    | 2           | 3                 | 2           |                        |             |                                   |             | P                   |            | 3                             | 2          |            | P          |            |            |           |            |            |            |            |            |            | 3 | 2 |   |  |  |
| RZAG100N7Y1B    |                              |             |             |             |                     |            |            |            |                     |             |                             |             |                                        |              |              |              |                                      |             |                   |             |                        |             | P                                 |             |                     |            |                               |            |            |            |            |            |           |            |            |            |            |            |            |   |   |   |  |  |
| RZAG125N7V1B    |                              |             | P           |             | 4                   | 3          | 2          |            | P                   |             |                             | 4           | 3                                      | 2            | 4            | 3            | 2                                    | 4           | 3                 | 2           |                        |             | P                                 |             |                     |            | 4                             | 3          | 2          |            | P          |            |           |            |            |            |            |            |            | 4 | 3 | 2 |  |  |
| RZAG125N7Y1B    |                              |             |             |             |                     |            |            |            |                     |             |                             |             |                                        |              |              |              |                                      |             |                   |             |                        |             |                                   |             |                     |            |                               |            |            |            |            |            |           |            |            |            |            |            |            |   |   |   |  |  |
| RZAG140N7V1B    | 2                            |             |             | P           | 4                   | 3          | 2          |            | P                   | 4           | 3                           |             | 4                                      | 3            | 4            | 3            | 4                                    | 3           | 2                 |             |                        | P           |                                   |             | 2                   |            | 4                             | 3          | 2          |            | P          | 2          |           |            |            |            |            | 4          | 3          |   |   |   |  |  |
| RZAG140N7Y1B    |                              |             |             |             |                     |            |            |            |                     |             |                             |             |                                        |              |              |              |                                      |             |                   |             |                        |             |                                   |             |                     |            |                               |            |            |            |            |            |           |            |            |            |            |            |            |   |   |   |  |  |

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#### RZAG-NV1

#### RZAG-NY1

Infrastructure cooling combination table

Combinations: P = Pair  
2 = Twin  
3 = Triple  
4 = Double twin

|              |   | High COP round flow cassette |            |             |             | Round flow cassette |            |            |             | Fully flat cassette |             | Slim concealed ceiling unit |              | Concealed ceiling unit with medium ESP |             |             |             | Wall mounted unit |           | Ceiling suspended unit |            |            |            | 4-way blow ceiling suspended unit |            | Floor standing unit |            |             |             |   |
|--------------|---|------------------------------|------------|-------------|-------------|---------------------|------------|------------|-------------|---------------------|-------------|-----------------------------|--------------|----------------------------------------|-------------|-------------|-------------|-------------------|-----------|------------------------|------------|------------|------------|-----------------------------------|------------|---------------------|------------|-------------|-------------|---|
|              |   | FCAG140BVEB                  | FCAG71HVEB | FCAG100HVEB | FCAG140HVEB | FCAG35BVEB          | FCAG50BVEB | FCAG71BVEB | FCAG100BVEB | FFA35A2VEB9         | FFA50A2VEB9 | FDXM35F3V1B9                | FDXM50F3V1B9 | FBA35A2VEB9                            | FBA50A2VEB9 | FBA71A2VEB9 | FBA100A2VEB | FBA140A2VEB       | FAA71AUEB | FAA100AUEB             | FHA35AVEB9 | FHA50AVEB9 | FHA71AVEB9 | FHA100AVEB                        | FHA140AVEB | FUA71AVEB           | FUA100AVEB | FVA100AMVEB | FVA140AMVEB |   |
| RZAG71N7V1B  |   |                              |            | P           |             | 3                   | 2          |            | P           |                     | 3           | 2                           |              | 3                                      | 2           |             | P           |                   |           | P                      | 3          | 2          |            | P                                 |            |                     | P          |             |             |   |
| RZAG71N7Y1B  |   |                              |            |             |             |                     |            |            |             |                     |             |                             |              |                                        |             |             |             |                   |           |                        |            |            |            |                                   |            |                     |            |             |             |   |
| RZAG100N7V1B | P | 2                            |            |             | P           | 4                   | 3          | 2          |             |                     | 4           | 3                           | 4            | 3                                      | 2           |             | P           | 2                 |           |                        | 4          | 3          | 2          |                                   | P          | 2                   |            |             |             | P |
| RZAG100N7Y1B |   |                              |            |             |             |                     |            |            |             |                     |             |                             |              |                                        |             |             |             |                   |           |                        |            |            |            |                                   |            |                     |            |             |             |   |
| RZAG125N7V1B | P | 2                            |            |             | P           | 4                   | 3          | 2          |             |                     | 4           | 3                           | 4            | 3                                      | 2           |             | P           | 2                 |           |                        | 4          | 3          | 2          |                                   | P          | 2                   |            |             |             | P |
| RZAG125N7Y1B |   |                              |            |             |             |                     |            |            |             |                     |             |                             |              |                                        |             |             |             |                   |           |                        |            |            |            |                                   |            |                     |            |             |             |   |
| RZAG140N7V1B | P | 2                            |            |             | P           | 4                   | 3          | 2          |             |                     | 4           | 3                           | 4            | 3                                      | 2           |             | P           | 2                 |           |                        | 4          | 3          | 2          |                                   | P          | 2                   |            |             |             | P |
| RZAG140N7Y1B |   |                              |            |             |             |                     |            |            |             |                     |             |                             |              |                                        |             |             |             |                   |           |                        |            |            |            |                                   |            |                     |            |             |             |   |

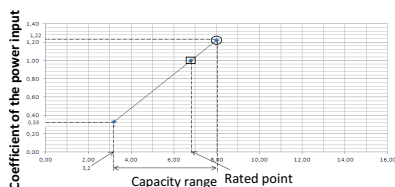
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# Capacity tables

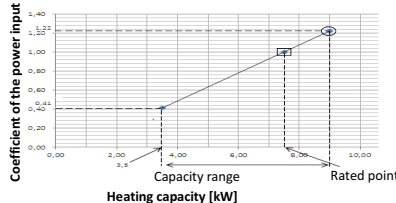
## 6 - 1 Cooling/Heating Capacity Tables

### RZAG71NV1 RZAG71NY1

#### Cooling



#### Heating



#### Symbols

AFR: Air flow rate [m³/min]  
BF: Bypass factor  
EWB: Entering wet-bulb temperature (°C WB)  
EDB: Entering dry-bulb temperature (°C DB)  
TC: Maximum total cooling/heating capacity [kW]  
SHC: Sensible heat capacity [kW]  
CPI: Coefficient of the power input  
PI: Power input [kW]  
compressor + indoor and outdoor fan motors

#### Cooling

|        |       | Cooling capacity [kW]       |      |      |      |      |      |                             |      |      |      |      |      |
|--------|-------|-----------------------------|------|------|------|------|------|-----------------------------|------|------|------|------|------|
|        |       | Outdoor temperature [°C DB] |      |      |      |      |      | Outdoor temperature [°C WB] |      |      |      |      |      |
| Indoor | °C DB | 25                          |      |      | 30   |      |      | 35                          |      |      | 40   |      |      |
|        |       | TC                          | SHC  | CPI  | TC   | SHC  | CPI  | TC                          | SHC  | CPI  | TC   | SHC  | CPI  |
| 16.0   | 22    | 8.03                        | 5.45 | 1.00 | 7.76 | 5.32 | 1.11 | 7.48                        | 5.20 | 1.21 | 7.21 | 5.06 | 1.32 |
| 18.0   | 25    | 8.40                        | 5.45 | 1.00 | 8.11 | 5.32 | 1.11 | 7.83                        | 5.19 | 1.21 | 7.54 | 5.05 | 1.33 |
| 19.0   | 27    | 8.59                        | 5.44 | 1.05 | 8.30 | 5.32 | 1.12 | 8.00                        | 5.18 | 1.22 | 7.70 | 5.05 | 1.33 |
| 19.5   | 27    | 8.69                        | 5.43 | 1.06 | 8.39 | 5.31 | 1.12 | 8.08                        | 5.17 | 1.22 | 7.79 | 5.05 | 1.33 |
| 22.0   | 30    | 9.15                        | 5.38 | 1.05 | 8.84 | 5.25 | 1.12 | 8.53                        | 5.13 | 1.23 | 8.21 | 4.99 | 1.34 |
| 24.0   | 32    | 9.53                        | 5.31 | 1.05 | 9.20 | 5.19 | 1.13 | 8.87                        | 5.06 | 1.25 | 8.54 | 4.92 | 1.35 |

|        |       | Heating capacity [kW]       |      |      |       |      |      |                             |      |      |      |      |      |
|--------|-------|-----------------------------|------|------|-------|------|------|-----------------------------|------|------|------|------|------|
|        |       | Outdoor temperature [°C WB] |      |      |       |      |      | Outdoor temperature [°C DB] |      |      |      |      |      |
| Indoor | °C DB | -15.0                       |      |      | -10.0 |      |      | -5.0                        |      |      | 0.0  |      |      |
|        |       | TC                          | CPI  | PI   | TC    | CPI  | PI   | TC                          | CPI  | PI   | TC   | CPI  | PI   |
| 16     | 6.44  | 0.93                        | 7.09 | 0.99 | 7.55  | 1.02 | 7.79 | 1.06                        | 9.00 | 1.12 | 9.71 | 1.19 | 1.24 |
| 18     | 6.43  | 0.98                        | 7.09 | 1.03 | 7.54  | 1.07 | 7.79 | 1.10                        | 9.00 | 1.17 | 9.71 | 1.24 | 1.24 |
| 20     | 6.42  | 1.01                        | 7.07 | 1.07 | 7.53  | 1.12 | 7.77 | 1.14                        | 9.00 | 1.22 | 9.71 | 1.28 | 1.28 |
| 21     | 6.42  | 1.03                        | 7.07 | 1.09 | 7.53  | 1.13 | 7.77 | 1.16                        | 9.00 | 1.24 | 9.71 | 1.31 | 1.31 |
| 22     | 6.42  | 1.05                        | 7.06 | 1.11 | 7.52  | 1.15 | 7.76 | 1.19                        | 9.00 | 1.27 | 9.71 | 1.33 | 1.33 |
| 24     | 6.41  | 1.09                        | 7.05 | 1.15 | 7.51  | 1.20 | 7.75 | 1.23                        | 9.00 | 1.32 | 9.67 | 1.38 | 1.38 |

#### Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- = Maximum at standard conditions  
○ = Rated capacity and rated coefficient of the power input  
The maximum capacity is not guaranteed except at standard conditions.
- SHC is based on indoor units: EWB & EDB.  
SHC\* = SHC: correction for other dry-bulb temperatures  
SHC\* = SHC: correction for other dry-bulb temperatures  
= 0.02 x AFR (m³/min) x (1-BF) x (DB\* - EDB)
- The capacities are based on the following conditions:  
Outdoor air: 85% RH.  
However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.

Corresponding refrigerant piping length: 5.0-m  
Level difference: 0-m

| Pair |      | FCAH71H | FCAG71B | FAA71A | FVA71A | FHA71A | FUA71A | FBA71A |
|------|------|---------|---------|--------|--------|--------|--------|--------|
| AFR  | 21.2 | 15.3    | 18.0    | 18.0   | 20.5   | 23.0   | 18.0   | 18.0   |
|      | (BF) | (0.20)  | (0.14)  | (0.16) | (0.16) | (0.13) | (0.24) | (0.13) |

| Twin |          | FCAG35B X 2 | FHA35A X 2 | FFA35A X 2 | FDXM35F X 2 | FBA35A X 2 | FNA35A X 2 |
|------|----------|-------------|------------|------------|-------------|------------|------------|
| AFR  | 12.5 x 2 | 10.0 x 2    | 10.0 x 2   | 8.7 x 2    | 15.0 x 2    | 8.7 x 2    | 8.7 x 2    |
|      | (BF)     | (0.40 x 2)  | (0.17 x 2) | (0.25 x 2) | (0.17 x 2)  | (0.08 x 2) | (0.17 x 2) |

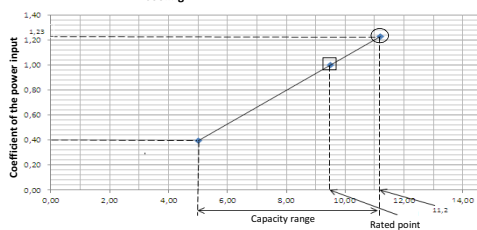
| Pair    |         | FCAH71H | FCAG71B | FAA71A | FVA71A | FHA71A | FUA71A | FBA71A |
|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| Cooling | 1.65    | 1.92    | 2.08    | 1.64   | 1.67   | 1.77   | 2.00   | 1.68   |
|         | Heating | 1.60    | 2.02    | 2.19   | 2.21   | 1.90   | 1.73   | 1.99   |

| Twin    |         | FCAG35B X 2 | FHA35A X 2 | FFA35A X 2 | FDXM35F X 2 | FBA35A X 2 | FNA35A X 2 |
|---------|---------|-------------|------------|------------|-------------|------------|------------|
| Cooling | 1.56    | 1.53        | 1.75       | 1.64       | 1.67        | 1.68       | 1.68       |
|         | Heating | 1.59        | 1.69       | 2.25       | 1.84        | 1.90       | 1.86       |

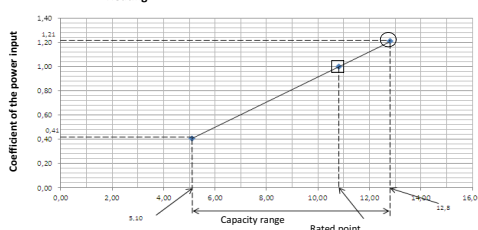
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### RZAG100NV1 RZAG100NY1

#### Cooling



#### Heating



#### Symbols

AFR: Air flow rate [m³/min]  
BF: Bypass factor  
EWB: Entering wet-bulb temperature (°C WB)  
EDB: Entering dry-bulb temperature (°C DB)  
TC: Maximum total cooling/heating capacity [kW]  
SHC: Sensible heat capacity [kW]  
CPI: Coefficient of the power input  
PI: Power input [kW]  
compressor + indoor and outdoor fan motors

#### Cooling

|        |       | Cooling capacity [kW]       |      |      |       |      |      |                             |      |      |       |      |      |
|--------|-------|-----------------------------|------|------|-------|------|------|-----------------------------|------|------|-------|------|------|
|        |       | Outdoor temperature [°C DB] |      |      |       |      |      | Outdoor temperature [°C WB] |      |      |       |      |      |
| Indoor | °C DB | 25                          |      |      | 30    |      |      | 35                          |      |      | 40    |      |      |
|        |       | TC                          | SHC  | CPI  | TC    | SHC  | CPI  | TC                          | SHC  | CPI  | TC    | SHC  | CPI  |
| 16.0   | 22    | 11.20                       | 7.61 | 1.01 | 10.85 | 7.48 | 1.11 | 10.50                       | 7.35 | 1.22 | 10.11 | 7.09 | 1.32 |
| 18.0   | 25    | 11.80                       | 7.59 | 1.01 | 11.37 | 7.49 | 1.12 | 11.00                       | 7.37 | 1.23 | 10.55 | 7.09 | 1.33 |
| 19.0   | 27    | 12.00                       | 7.57 | 1.05 | 11.62 | 7.45 | 1.12 | 11.20                       | 7.35 | 1.23 | 10.80 | 7.04 | 1.34 |
| 19.5   | 27    | 12.05                       | 7.56 | 1.06 | 11.67 | 7.44 | 1.13 | 11.25                       | 7.34 | 1.24 | 10.85 | 7.04 | 1.34 |
| 22.0   | 30    | 12.80                       | 7.52 | 1.02 | 12.37 | 7.36 | 1.13 | 11.90                       | 7.18 | 1.24 | 11.52 | 7.03 | 1.35 |
| 24.0   | 32    | 13.30                       | 7.45 | 1.03 | 12.88 | 7.27 | 1.14 | 12.40                       | 7.09 | 1.25 | 11.97 | 6.93 | 1.36 |

|        |       | Heating capacity [kW]       |      |      |       |      |      |                             |      |      |      |      |      |
|--------|-------|-----------------------------|------|------|-------|------|------|-----------------------------|------|------|------|------|------|
|        |       | Outdoor temperature [°C WB] |      |      |       |      |      | Outdoor temperature [°C DB] |      |      |      |      |      |
| Indoor | °C DB | -15.0                       |      |      | -10.0 |      |      | -5.0                        |      |      | 0.0  |      |      |
|        |       | TC                          | CPI  | PI   | TC    | CPI  | PI   | TC                          | CPI  | PI   | TC   | CPI  | PI   |
| 16     | 8.59  | 0.92                        | 9.44 | 0.98 | 10.1  | 1.02 | 10.4 | 1.05                        | 12.8 | 1.11 | 13.8 | 1.18 | 1.18 |
| 18     | 8.57  | 0.97                        | 9.44 | 1.02 | 10.0  | 1.06 | 10.3 | 1.09                        | 12.8 | 1.16 | 13.8 | 1.23 | 1.23 |
| 20     | 8.56  | 1.00                        | 9.43 | 1.06 | 10.0  | 1.11 | 10.3 | 1.13                        | 12.8 | 1.21 | 13.8 | 1.27 | 1.27 |
| 21     | 8.56  | 1.02                        | 9.42 | 1.08 | 10.0  | 1.12 | 10.3 | 1.15                        | 12.8 | 1.23 | 13.8 | 1.30 | 1.30 |
| 22     | 8.55  | 1.04                        | 9.42 | 1.10 | 10.0  | 1.14 | 10.3 | 1.18                        | 12.8 | 1.26 | 13.8 | 1.32 | 1.32 |
| 24     | 8.54  | 1.08                        | 9.41 | 1.14 | 10.0  | 1.19 | 10.3 | 1.22                        | 12.8 | 1.31 | 13.8 | 1.37 | 1.37 |

#### Notes

- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
- = Maximum at standard conditions  
○ = Rated capacity and rated coefficient of the power input  
The maximum capacity is not guaranteed except at standard conditions.
- SHC is based on indoor units: EWB & EDB.  
SHC\* = SHC: correction for other dry-bulb temperatures  
SHC\* = SHC: correction for other dry-bulb temperatures  
= 0.02 x AFR (m³/min) x (1-BF) x (DB\* - EDB)
- The capacities are based on the following conditions:  
Outdoor air: 85% RH.  
However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.  
Corresponding refrigerant piping length: 5.0-m  
Level difference: 0-m

| Pair |      | FCAH100H | FCAG100B | FAA100A | FVA100A | FHA100A | FUA100A | FBA100A |
|------|------|----------|----------|---------|---------|---------|---------|---------|
| AFR  | 32.5 | 22.8     | 26.0     | 28.0    | 31.0    | 34.0    | 28.0    | 28.0    |
|      | (BF) | (0.17)   | (0.17)   | (0.10)  | (0.20)  | (0.09)  | (0.20)  | (0.03)  |

| Twin |          | FCAG50B X 2 | FHA50A X 2 | FFA50A X 2 | FDXM50F X 2 | FBA50A X 2 | FNA50A X 2 |
|------|----------|-------------|------------|------------|-------------|------------|------------|
| AFR  | 12.6 x 2 | 15.0 x 2    | 12.0 x 2   | 15.8 x 2   | 15.0 x 2    | 16.0 x 2   | 16.0 x 2   |
|      | (BF)     | (0.22 x 2)  | (0.18 x 2) | (0.16 x 2) | (0.11 x 2)  | (0.13 x 2) | (0.11 x 2) |

| Triple |          | FCAG35B X 3 | FHA35A X 3 | FFA35A X 3 | FDXM35F X 3 | FBA35A X 3 | FNA35A X 3 |
|--------|----------|-------------|------------|------------|-------------|------------|------------|
| AFR    | 12.5 x 3 | 14.0 x 3    | 10.0 x 3   | 8.7 x 3    | 15.0 x 3    | 8.7 x 3    | 8.7 x 3    |
|        | (BF)     | (0.40 x 3)  | (0.17 x 3) | (0.25 x 3) | (0.17 x 3)  | (0.08 x 3) | (0.17 x 3) |

- CPI is a percentage value compared to the rated value which is 1.00.
- The error rate for this value is less than 5% and depends on the indoor unit type.
- The heating performance takes into account the drop that occurs during defrost operation.
- The air flow rate and bypass factor are mentioned in the table.
- The rated power input for each model is mentioned in the table below.

| Pair    |         | FCAH100H | FCAG100B | FAA100A | FVA100A | FHA100A | FUA100A | FBA100A |
|---------|---------|----------|----------|---------|---------|---------|---------|---------|
| Cooling | 2.25    | 2.65     | 2.54     | 2.66    | 2.31    | 2.66    | 2.58    | 2.58    |
|         | Heating | 2.16     | 3.01     | 3.41    | 2.73    | 2.72    | 2.68    | 2.79    |

| Twin    |         | FCAG50B X 2 | FHA50A X 2 | FFA50A X 2 | FDXM50F X 2 | FBA50A X 2 | FNA50A X 2 |
|---------|---------|-------------|------------|------------|-------------|------------|------------|
| Cooling | 2.16    | 2.35        | 2.51       | 2.00       | 2.29        | 2.10       | 2.10       |
|         | Heating | 2.37        | 2.65       | 2.75       | 2.57        | 2.79       | 2.57       |

| Triple  |         | FCAG35B X 3 | FHA35A X 3 | FFA35A X 3 | FDXM35F X 3 | FBA35A X 3 | FNA35A X 3 |
|---------|---------|-------------|------------|------------|-------------|------------|------------|
| Cooling | 2.05    | 2.03        | 2.23       | 2.11       | 2.20        | 2.17       | 2.17       |
|         | Heating | 2.16        | 2.15       | 2.76       | 2.91        | 2.32       | 2.91       |

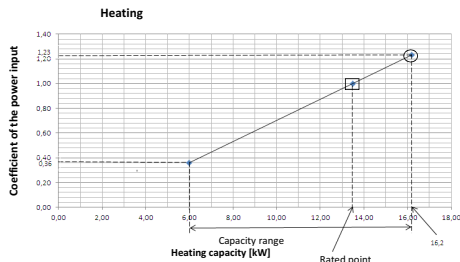
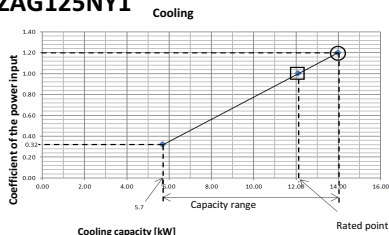
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# 6 Capacity tables

## 6 - 1 Cooling/Heating Capacity Tables

### RZAG125NV1

### RZAG125NY1



**Symbols**  
 AFR: Air flow rate [m³/min]  
 BF: Bypass factor  
 EWB: Entering wet-bulb temperature (°C WB)  
 EDB: Entering dry-bulb temperature (°C DB)  
 TC: Maximum total cooling/heating capacity [kW]  
 SHC: Sensible heat capacity [kW]  
 CPI: Coefficient of the power input  
 Pl: Power input [kW]  
 compressor + indoor and outdoor fan motors

| Cooling |      | Outdoor temperature [°C DB] |      |      |       |      |      |       |      |      |       |      |      |
|---------|------|-----------------------------|------|------|-------|------|------|-------|------|------|-------|------|------|
|         |      | 25                          |      |      | 30    |      |      | 35    |      |      | 40    |      |      |
| Indoor  |      | TC                          | SHC  | CPI  | TC    | SHC  | CPI  | TC    | SHC  | CPI  | TC    | SHC  | CPI  |
| °CWB    | °CDB |                             |      |      |       |      |      |       |      |      |       |      |      |
| 16.0    | 22   | 14.30                       | 9.54 | 0.99 | 13.60 | 9.30 | 1.09 | 13.10 | 9.12 | 1.19 | 12.60 | 8.78 | 1.29 |
| 18.0    | 25   | 14.70                       | 9.50 | 0.99 | 14.20 | 9.32 | 1.09 | 13.00 | 9.06 | 1.20 | 12.20 | 8.89 | 1.30 |
| 19.0    | 27   | 15.00                       | 9.52 | 1.00 | 14.50 | 9.34 | 1.10 | 14.00 | 9.06 | 1.20 | 11.50 | 8.87 | 1.31 |
| 19.5    | 27   | 15.21                       | 9.52 | 1.00 | 14.68 | 9.26 | 1.11 | 14.15 | 9.08 | 1.20 | 11.64 | 8.81 | 1.31 |
| 22.0    | 30   | 16.00                       | 9.39 | 1.00 | 15.47 | 9.14 | 1.11 | 14.90 | 8.95 | 1.21 | 14.38 | 8.74 | 1.32 |
| 24.0    | 32   | 16.70                       | 9.31 | 1.01 | 16.10 | 9.09 | 1.11 | 15.50 | 8.89 | 1.23 | 14.97 | 8.63 | 1.33 |

- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
  - = Maximum at standard conditions  
 □ = Rated capacity and rated coefficient of the power input  
 The maximum capacity is not guaranteed except at standard conditions.
  - SHC is based on indoor units: EWB & EDB.  
 -SHC for other dry-bulb temperatures = SHC + SHC\*.  
 SHC\* = SHC correction for other dry-bulb temperatures  
 = 0.02 x AFR (m³/min) x (1-BF) x (DB\* - EDB)
  - The capacities are based on the following conditions:  
 Outdoor air: 85% RH  
 However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.  
 Corresponding refrigerant piping length: 5.0 m  
 Level difference: 0 m

| Pair |        | FCAG125H | FCAG125B | FDJ125A | FVA125A | FHA125A | FUA125A | FBA125A |
|------|--------|----------|----------|---------|---------|---------|---------|---------|
| AFR  | 33.5   | 26.0     | 26.0     | 39.0    | 31.0    | 31.0    | 32.5    | 34.0    |
| (BF) | (0.19) | (0.21)   | (0.16)   | (0.16)  | (0.14)  | (0.19)  | (0.06)  | (0.06)  |

| Twin |            | FCAG60B X 2 | FHA60A X 2 | FFA60A X 2 | FDXM60F X 2 | FBA60A X 2 | FNA60A X 2 |
|------|------------|-------------|------------|------------|-------------|------------|------------|
| AFR  | 13.6 x 2   | 19.5 x 2    | 14.5 x 2   | 16.0 x 2   | 18.0 x 2    | 16.0 x 2   |            |
| (BF) | (0.20 x 2) | (0.20 x 2)  | (0.11 x 2) | (0.12 x 2) | (0.18 x 2)  | (0.12 x 2) |            |

| Triple |            | FCAG50A X 3 | FHA50A X 3 | FFA50A X 3 | FDXM50F X 3 | FBA50A X 3 | FNA50A X 3 |
|--------|------------|-------------|------------|------------|-------------|------------|------------|
| AFR    | 12.6 x 3   | 15.0 x 3    | 12.0 x 3   | 15.8 x 3   | 15.0 x 3    | 16.0 x 3   |            |
| (BF)   | (0.22 x 3) | (0.18 x 3)  | (0.16 x 3) | (0.11 x 3) | (0.13 x 3)  | (0.11 x 3) |            |

| Double twin |            | FCAG35B X 4 | FHA35A X 4 | FFA35A X 4 | FDXM35F X 4 | FBA35A X 4 | FNA35A X 4 |
|-------------|------------|-------------|------------|------------|-------------|------------|------------|
| AFR         | 12.5 x 4   | 14.0 x 4    | 10.0 x 4   | 8.7 x 4    | 15.0 x 4    | 8.7 x 4    |            |
| (BF)        | (0.40 x 4) | (0.17 x 4)  | (0.25 x 4) | (0.17 x 4) | (0.08 x 4)  | (0.17 x 4) |            |

| Heating |      | Outdoor temperature [°C WB] |      |      |       |      |      |      |      |      |      |      |  |
|---------|------|-----------------------------|------|------|-------|------|------|------|------|------|------|------|--|
|         |      | -15.0                       |      |      | -10.0 |      |      | -5.0 |      |      | 0.0  |      |  |
| Indoor  |      | TC                          | CPI  |      | TC    | CPI  |      | TC   | CPI  |      | TC   | CPI  |  |
| °CDB    | °CWB |                             |      |      |       |      |      |      |      |      |      |      |  |
| 16      | 11.0 | 0.94                        | 1.21 | 1.00 | 12.9  | 1.03 | 1.32 | 1.06 | 1.62 | 1.13 | 17.5 | 1.20 |  |
| 18      | 11.0 | 0.98                        | 1.21 | 1.03 | 12.9  | 1.08 | 1.32 | 1.11 | 16.2 | 1.18 | 17.5 | 1.25 |  |
| 20      | 11.0 | 1.02                        | 1.20 | 1.08 | 12.9  | 1.13 | 1.32 | 1.15 | 16.2 | 1.23 | 17.5 | 1.30 |  |
| 21      | 11.0 | 1.04                        | 1.20 | 1.10 | 12.9  | 1.14 | 1.32 | 1.17 | 16.2 | 1.25 | 17.5 | 1.32 |  |
| 22      | 11.0 | 1.06                        | 1.20 | 1.12 | 12.8  | 1.16 | 1.32 | 1.20 | 16.2 | 1.28 | 17.4 | 1.34 |  |
| 24      | 11.0 | 1.10                        | 1.20 | 1.16 | 12.8  | 1.21 | 1.32 | 1.24 | 16.2 | 1.33 | 17.4 | 1.39 |  |

- CPI is a percentage value compared to the rated value which is 1.00.
- The error rate for this value is less than 5% and depends on the indoor unit type.
- The heating performance takes into account the drop that occurs during defrost operation.
- The air flow rate and bypass factor are mentioned in the table.
- The rated power input for each model is mentioned in the table below.

| Pair    |  | FCAG125H | FCAG125B | FDJ125A | FVA125A | FHA125A | FUA125A | FBA125A |
|---------|--|----------|----------|---------|---------|---------|---------|---------|
| Cooling |  | 3.15     | 3.65     | 3.73    | 3.77    | 3.56    | 4.00    | 3.70    |
| Heating |  | 3.08     | 3.52     | 3.25    | 3.84    | 3.36    | 3.40    | 3.15    |

| Twin    |  | FCAG60B X 2 | FHA60A X 2 | FFA60A X 2 | FDXM60F X 2 | FBA60A X 2 | FNA60A X 2 |
|---------|--|-------------|------------|------------|-------------|------------|------------|
| Cooling |  | 2.76        | 2.83       | 3.35       | 2.60        | 2.78       | 2.65       |
| Heating |  | 3.49        | 3.27       | 3.58       | 3.03        | 2.82       | 3.04       |

| Triple  |  | FCAG50A X 3 | FHA50A X 3 | FFA50A X 3 | FDXM50F X 3 | FBA50A X 3 | FNA50A X 3 |
|---------|--|-------------|------------|------------|-------------|------------|------------|
| Cooling |  | 2.57        | 2.79       | 2.97       | 2.36        | 2.74       | 2.50       |
| Heating |  | 2.86        | 2.73       | 3.19       | 2.46        | 2.69       | 2.53       |

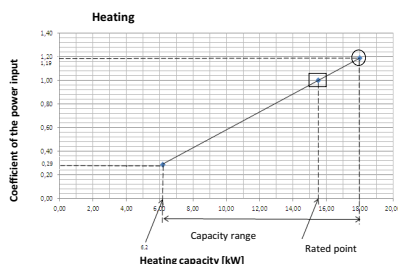
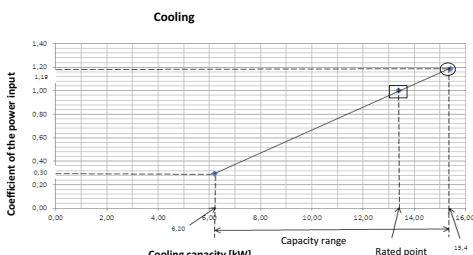
  

| Double twin |  | FCAG35B X 4 | FHA35A X 4 | FFA35A X 4 | FDXM35F X 4 | FBA35A X 4 | FNA35A X 4 |
|-------------|--|-------------|------------|------------|-------------|------------|------------|
| Cooling     |  | 2.51        | 2.45       | 2.71       | 2.55        | 2.96       | 2.62       |
| Heating     |  | 2.63        | 2.41       | 3.44       | 2.88        | 2.84       | 2.91       |

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### RZAG140NV1

### RZAG140NY1



**Symbols**  
 AFR: Air flow rate [m³/min]  
 BF: Bypass factor  
 EWB: Entering wet-bulb temperature (°C WB)  
 EDB: Entering dry-bulb temperature (°C DB)  
 TC: Maximum total cooling/heating capacity [kW]  
 SHC: Sensible heat capacity [kW]  
 CPI: Coefficient of the power input  
 Pl: Power input [kW]  
 compressor + indoor and outdoor fan motors

| Cooling |      | Outdoor temperature [°C DB] |       |      |       |       |      |       |       |      |       |      |      |
|---------|------|-----------------------------|-------|------|-------|-------|------|-------|-------|------|-------|------|------|
|         |      | 25                          |       |      | 30    |       |      | 35    |       |      | 40    |      |      |
| Indoor  |      | TC                          | SHC   | CPI  | TC    | SHC   | CPI  | TC    | SHC   | CPI  | TC    | SHC  | CPI  |
| °CWB    | °CDB |                             |       |      |       |       |      |       |       |      |       |      |      |
| 16.0    | 22   | 15.30                       | 10.47 | 0.98 | 14.93 | 10.25 | 1.08 | 14.44 | 10.03 | 1.18 | 13.86 | 9.69 | 1.28 |
| 18.0    | 25   | 16.17                       | 10.55 | 0.98 | 15.62 | 10.21 | 1.09 | 15.11 | 10.01 | 1.19 | 14.52 | 9.71 | 1.30 |
| 19.0    | 27   | 16.56                       | 10.43 | 0.99 | 15.96 | 10.18 | 1.09 | 15.40 | 9.98  | 1.19 | 14.83 | 9.76 | 1.30 |
| 19.5    | 27   | 16.74                       | 10.49 | 0.99 | 16.14 | 10.16 | 1.10 | 15.57 | 10.00 | 1.19 | 14.98 | 9.66 | 1.30 |
| 22.0    | 30   | 17.61                       | 10.37 | 0.99 | 17.01 | 10.16 | 1.10 | 16.36 | 9.83  | 1.21 | 15.76 | 9.60 | 1.31 |
| 24.0    | 32   | 18.38                       | 10.20 | 1.00 | 17.72 | 10.00 | 1.11 | 17.04 | 9.67  | 1.22 | 16.43 | 9.47 | 1.32 |

- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
  - = Maximum at standard conditions  
 □ = Rated capacity and rated coefficient of the power input  
 The maximum capacity is not guaranteed except at standard conditions.
  - SHC is based on indoor units: EWB & EDB.  
 -SHC for other dry-bulb temperatures = SHC + SHC\*.  
 SHC\* = SHC correction for other dry-bulb temperatures  
 = 0.02 x AFR (m³/min) x (1-BF) x (DB\* - EDB)
  - The capacities are based on the following conditions:  
 Outdoor air: 85% RH  
 However, the outdoor ambient condition of the rated capacity during heating operation is 7°C DB / 6°C WB.  
 Corresponding refrigerant piping length: 5.0 m  
 Level difference: 0 m

| Pair |        | FCAG140H | FCAG140B | FVA140A | FHA140A | FBA140A |
|------|--------|----------|----------|---------|---------|---------|
| AFR  | 33.5   | 26.0     | 30.0     | 34.0    | 34.0    |         |
| (BF) | (0.15) | (0.23)   | (0.18)   | (0.17)  | (0.06)  |         |

| Twin |            | FCAG71H X 2 | FCAG71B X 2 | FVA71A X 2 | FHA71A X 2 | FUA71A X 2 | FBA71A X 2 | FNA71A X 2 |
|------|------------|-------------|-------------|------------|------------|------------|------------|------------|
| AFR  | 21.2 x 2   | 14.0 x 2    | 18.0 x 2    | 20.5 x 2   | 23.0 x 2   | 18.0 x 2   | 18.0 x 2   |            |
| (BF) | (0.20 x 2) | (0.14 x 2)  | (0.16 x 2)  | (0.13 x 2) | (0.24 x 2) | (0.13 x 2) | (0.16 x 2) |            |

| Triple |            | FCAG50B X 3 | FHA50A X 3 | FFA50A X 3 | FDXM50F X 3 | FBA50A X 3 | FNA50A X 3 |
|--------|------------|-------------|------------|------------|-------------|------------|------------|
| AFR    | 12.6 x 3   | 15.0 x 3    | 12.0 x 3   | 15.8 x 3   | 15.0 x 3    | 16.0 x 3   |            |
| (BF)   | (0.22 x 3) | (0.18 x 3)  | (0.16 x 3) | (0.11 x 3) | (0.13 x 3)  | (0.11 x 3) |            |

| Double twin |            | FCAG35B X 4 | FHA35A X 4 | FFA35A X 4 | FDXM35F X 4 | FBA35A X 4 | FNA35A X 4 |
|-------------|------------|-------------|------------|------------|-------------|------------|------------|
| AFR         | 12.5 x 4   | 14.0 x 4    | 10.0 x 4   | 8.7 x 4    | 15.0 x 4    | 8.7 x 4    |            |
| (BF)        | (0.40 x 4) | (0.20 x 4)  | (0.25 x 4) | (0.17 x 4) | (0.08 x 4)  | (0.17 x 4) |            |

| Heating |      | Outdoor temperature [°C WB] |      |      |       |      |      |      |      |      |      |      |  |
|---------|------|-----------------------------|------|------|-------|------|------|------|------|------|------|------|--|
|         |      | -15.0                       |      |      | -10.0 |      |      | -5.0 |      |      | 0.0  |      |  |
| Indoor  |      | TC                          | CPI  |      | TC    | CPI  |      | TC   | CPI  |      | TC   | CPI  |  |
| °CDB    | °CWB |                             |      |      |       |      |      |      |      |      |      |      |  |
| 16      | 11.6 | 0.91                        | 1.27 | 0.97 | 13.6  | 1.00 | 13.9 | 1.03 | 18.0 | 1.09 | 19.4 | 1.16 |  |
| 18      | 11.6 | 0.95                        | 1.27 | 1.00 | 13.6  | 1.04 | 13.9 | 1.07 | 18.0 | 1.14 | 19.4 | 1.21 |  |
| 20      | 11.6 | 0.99                        | 1.27 | 1.06 | 13.6  | 1.09 | 13.9 | 1.11 | 18.0 | 1.19 | 19.4 | 1.26 |  |
| 21      | 11.6 | 1.00                        | 1.27 | 1.06 | 13.5  | 1.11 | 13.9 | 1.13 | 18.0 | 1.21 | 19.4 | 1.28 |  |
| 22      | 11.6 | 1.02                        | 1.27 | 1.08 | 13.5  | 1.12 | 13.9 | 1.16 | 18.0 | 1.24 | 19.4 | 1.30 |  |
| 24      | 11.6 | 1.07                        | 1.26 | 1.12 | 13.5  | 1.17 | 13.9 | 1.20 | 18.0 | 1.29 | 19.4 | 1.36 |  |

- CPI is a percentage value compared to the rated value which is 1.00.
- The error rate for this value is less than 5% and depends on the indoor unit type.
- The heating performance takes into account the drop that occurs during defrost operation.
- The air flow rate and bypass factor are mentioned in the table.
- The rated power input for each model is mentioned in the table below.

|         |  |           |          |         |         |         |
|---------|--|-----------|----------|---------|---------|---------|
| Pair    |  | FCAGH140H | FCAG140B | FVA140A | FHA140A | FBA140A |
| Cooling |  | 3.64      | 4.29     | 4.42    | 4.31    | 4.69    |
| Heating |  | 3.64      | 4.55     | 4.48    | 4.33    | 4.92    |

|         |  |             |             |            |            |            |            |            |
|---------|--|-------------|-------------|------------|------------|------------|------------|------------|
| Twin    |  | FCAG71H X 2 | FCAG71B X 2 | FVA71A X 2 | FHA71A X 2 | FUA71A X 2 | FBA71A X 2 | FVA71A X 2 |
| Cooling |  | 2.89        | 3.15        | 3.27       | 3.01       | 3.02       | 2.97       | 3.33       |
| Heating |  | 3.03        | 3.69        | 3.67       | 3.50       | 3.28       | 3.55       | 3.92       |

|         |  |             |            |            |             |            |            |
|---------|--|-------------|------------|------------|-------------|------------|------------|
| Triple  |  | FCAG50B X 3 | FHA50A X 3 | FFA50A X 3 | FDXM50F X 3 | FBA50A X 3 | FNA50A X 3 |
| Cooling |  | 2.88        | 3.14       | 3.27       | 2.65        | 3.06       | 2.79       |
| Heating |  | 3.44        | 3.29       | 3.87       | 2.96        | 3.23       | 3.03       |

|             |  |             |            |            |             |            |            |
|-------------|--|-------------|------------|------------|-------------|------------|------------|
| Double twin |  | FCAG35B X 4 | FHA35A X 4 | FFA35A X 4 | FDXM35F X 4 | FBA35A X 4 | FNA35A X 4 |
| Cooling     |  | 3.08        | 2.73       | 3.04       | 2.87        | 3.32       | 2.94       |
| Heating     |  | 3.97        | 2.89       | 4.19       | 3.49        | 4.22       | 3.53       |

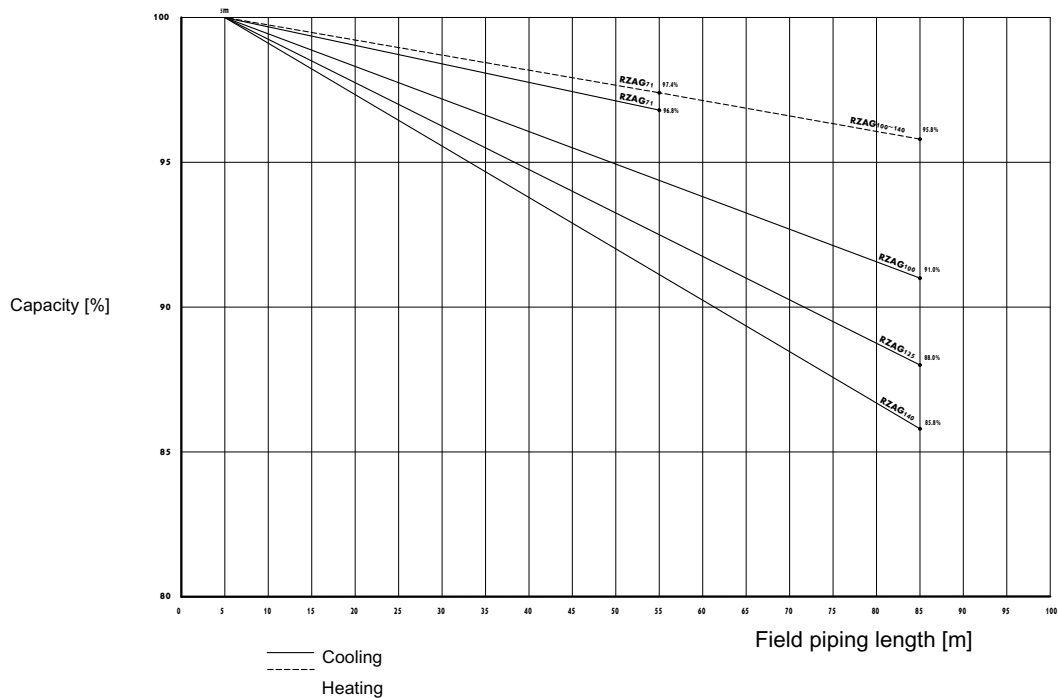
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## 6 Capacity tables

### 6 - 2 Capacity Correction Factor

RZAG-NV1  
RZAG-NY1

Capacity in function of field piping length



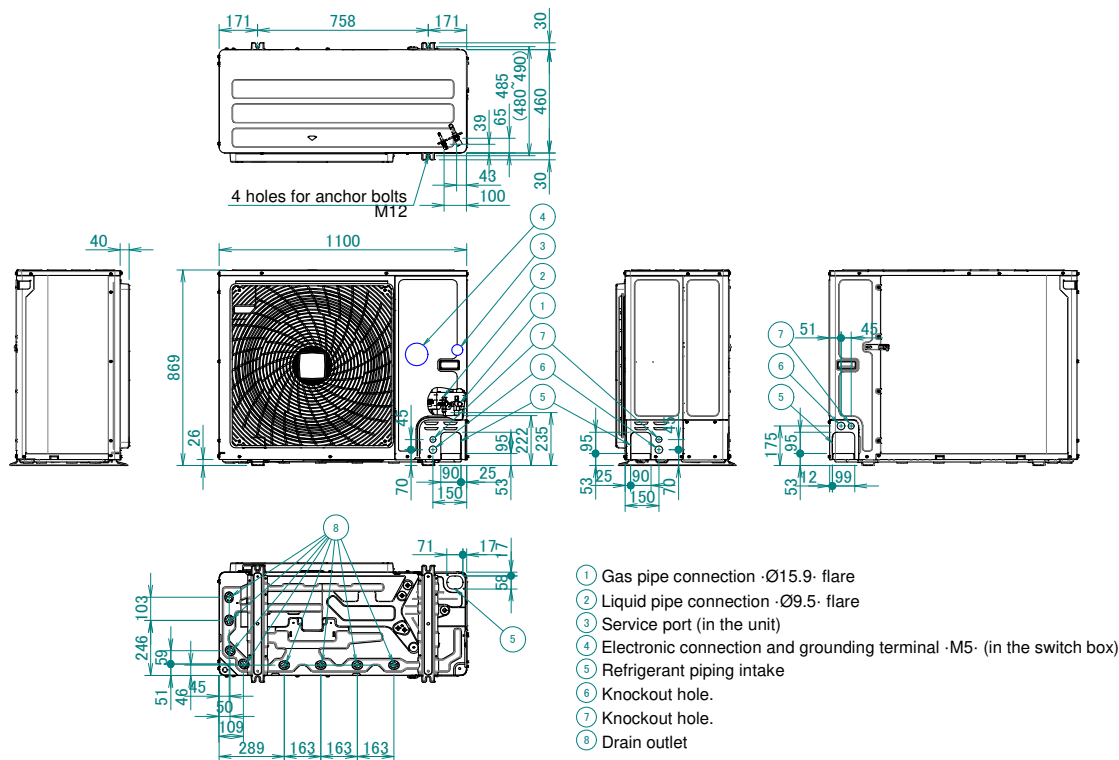
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## 7 Dimensional drawings

### 7 - 1 Dimensional Drawings

RZAG-NV1

RZAG-NY1



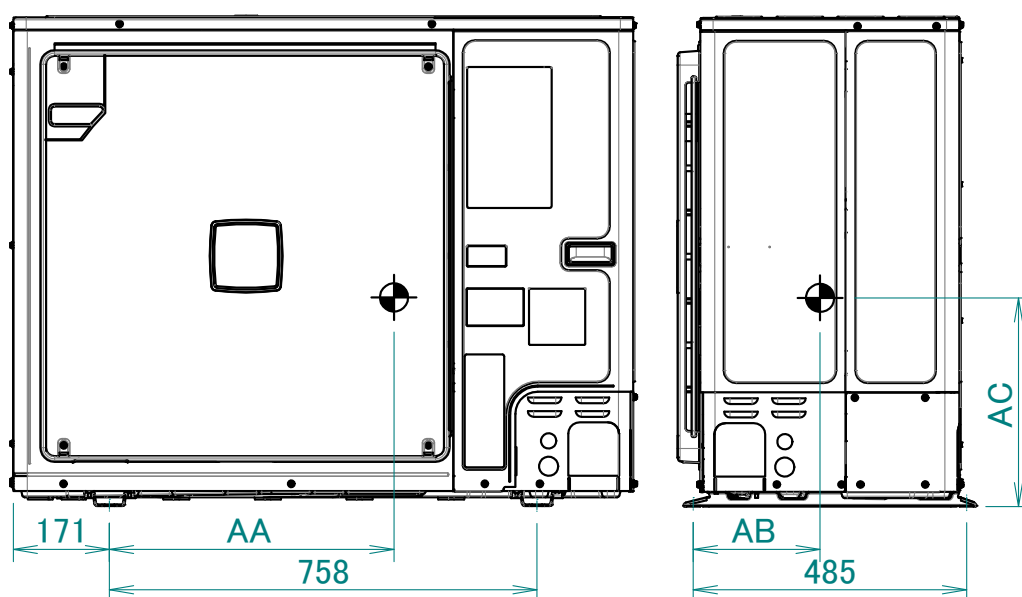
3D120936

## 8 Centre of gravity

### 8 - 1 Centre of Gravity

RZAG-NV1

RZAG-NY1



| Model            | AA    | AB    | AC    |
|------------------|-------|-------|-------|
| RZAG71N7V1B      | 691.3 | 238.7 | 357.8 |
| RZAG71N7Y1B      | 696.9 | 224.7 | 359.8 |
| RZAG100N7V1B     | 670.7 | 239.3 | 367.6 |
| RZAG100N7Y1B     | 682.2 | 223.5 | 362.5 |
| RZAG125/140N7V1B | 657.3 | 229.2 | 371.8 |
| RZAG125/140N7Y1B | 664.4 | 215.8 | 372.2 |

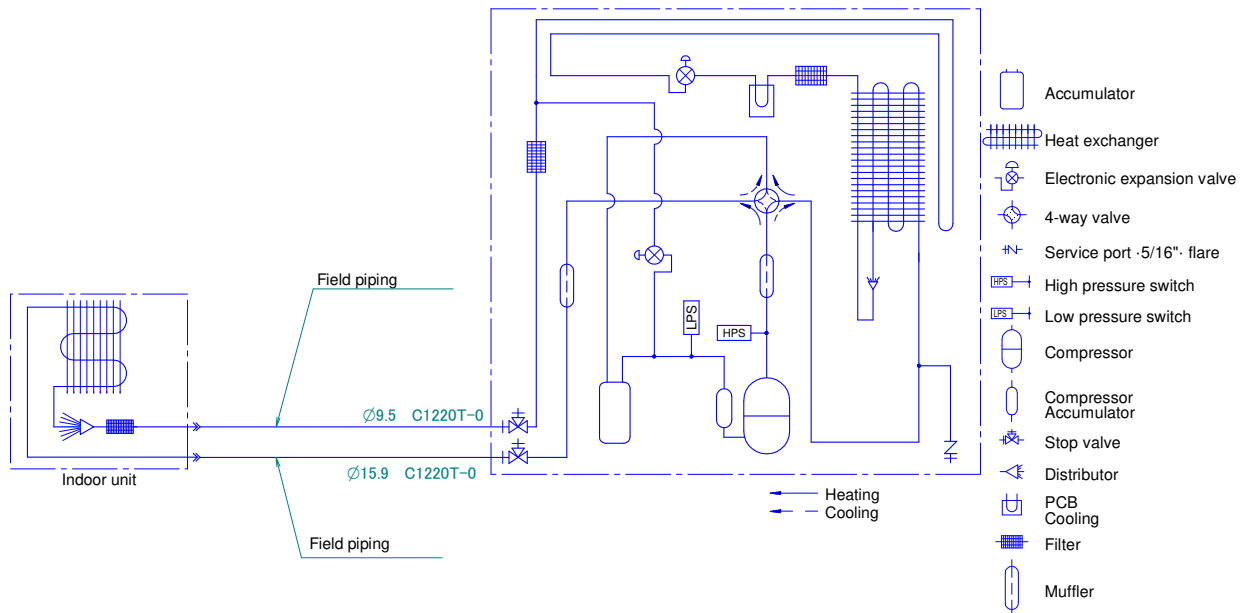
4D120933A

## 9 Piping diagrams

## 9 - 1 Piping Diagrams

## RZAG-NV1

RZAG-NY1



## Notes

1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

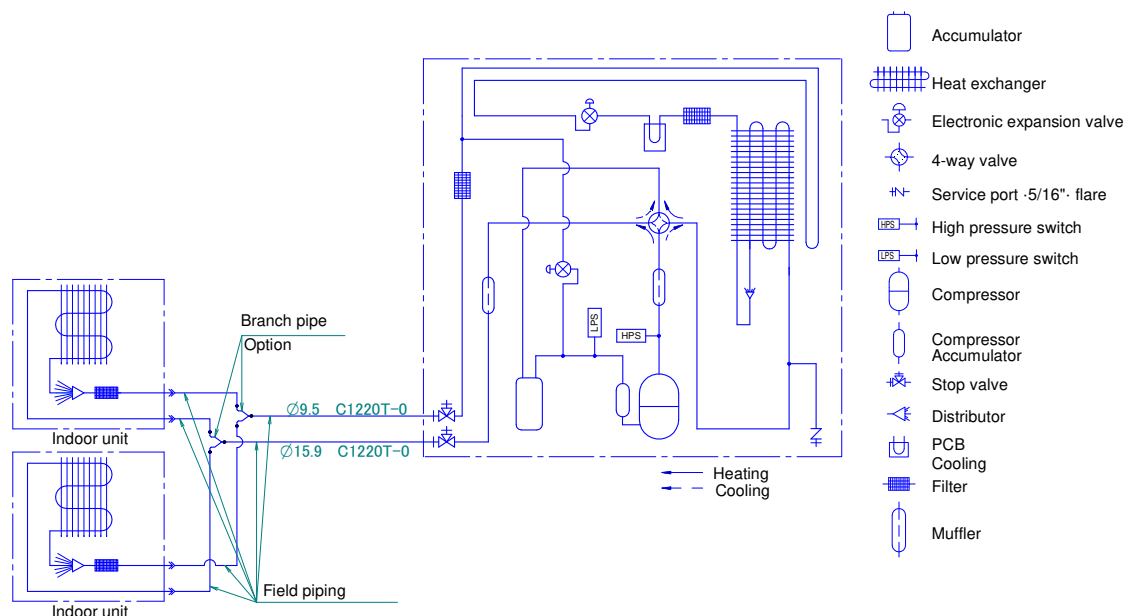
**3D120907**

## 9 Piping diagrams

### 9 - 2 Piping Diagram Twin Application

9

RZAG-NV1  
RZAG-NY1



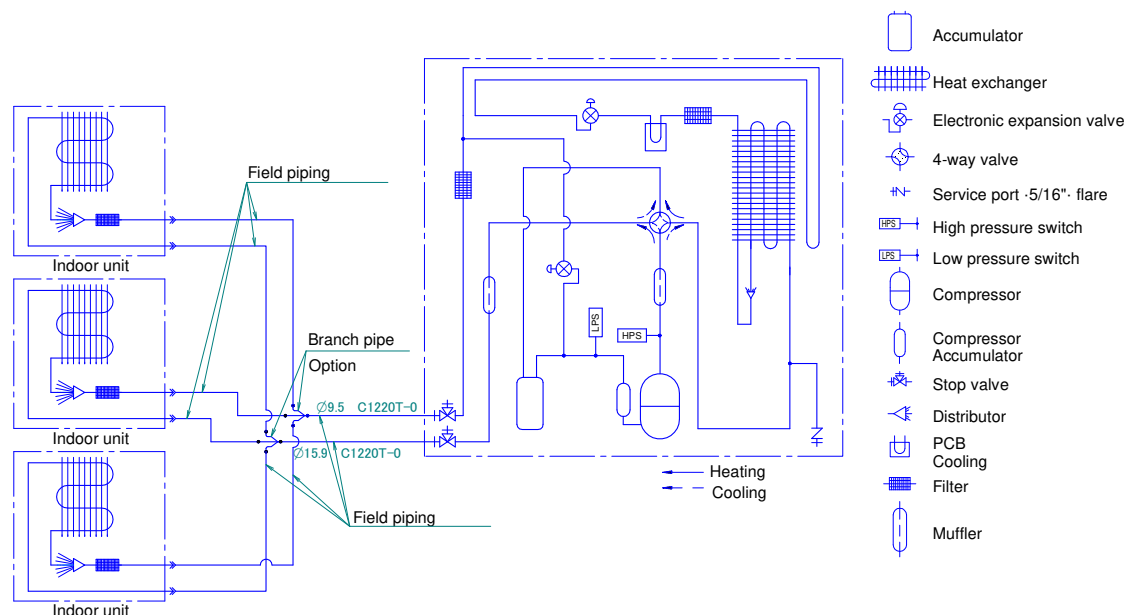
3D120913

## 9 Piping diagrams

### 9 - 3 Piping Diagram Triple Application

RZAG100-140NV1

RZAG100-140NY1



#### Notes

1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

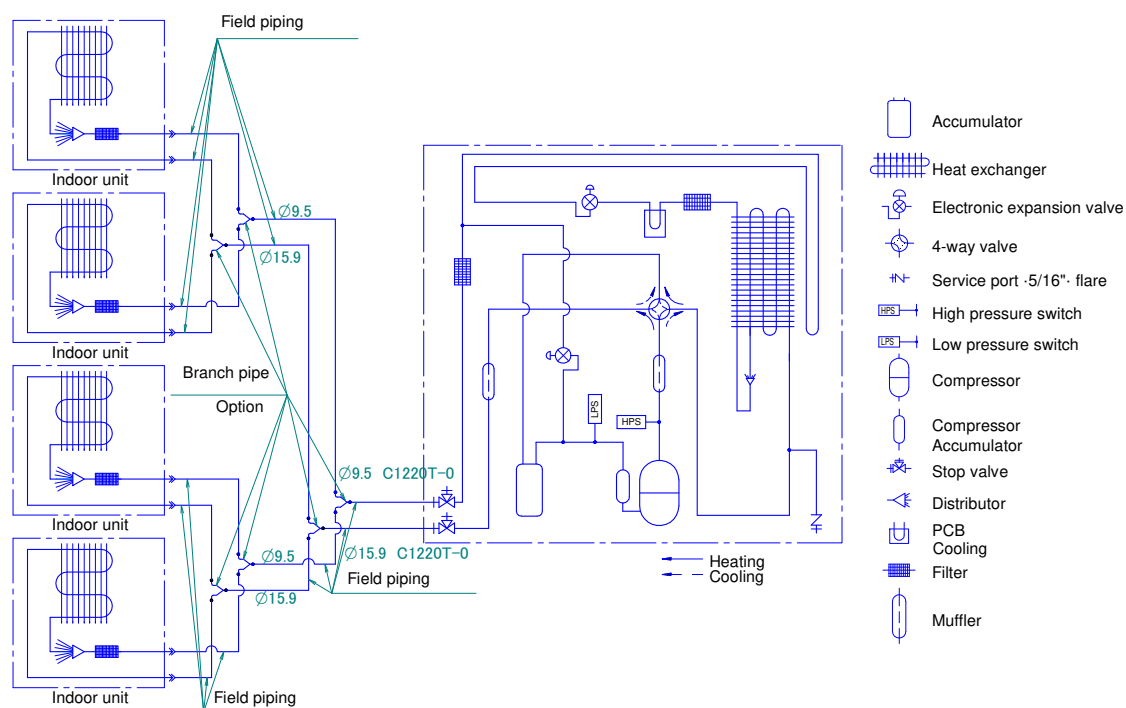
3D120914

## 9 Piping diagrams

### 9 - 4 Piping Diagram Double Twin Application

RZAG125-140NV1

RZAG125-140NY1



#### Notes

1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

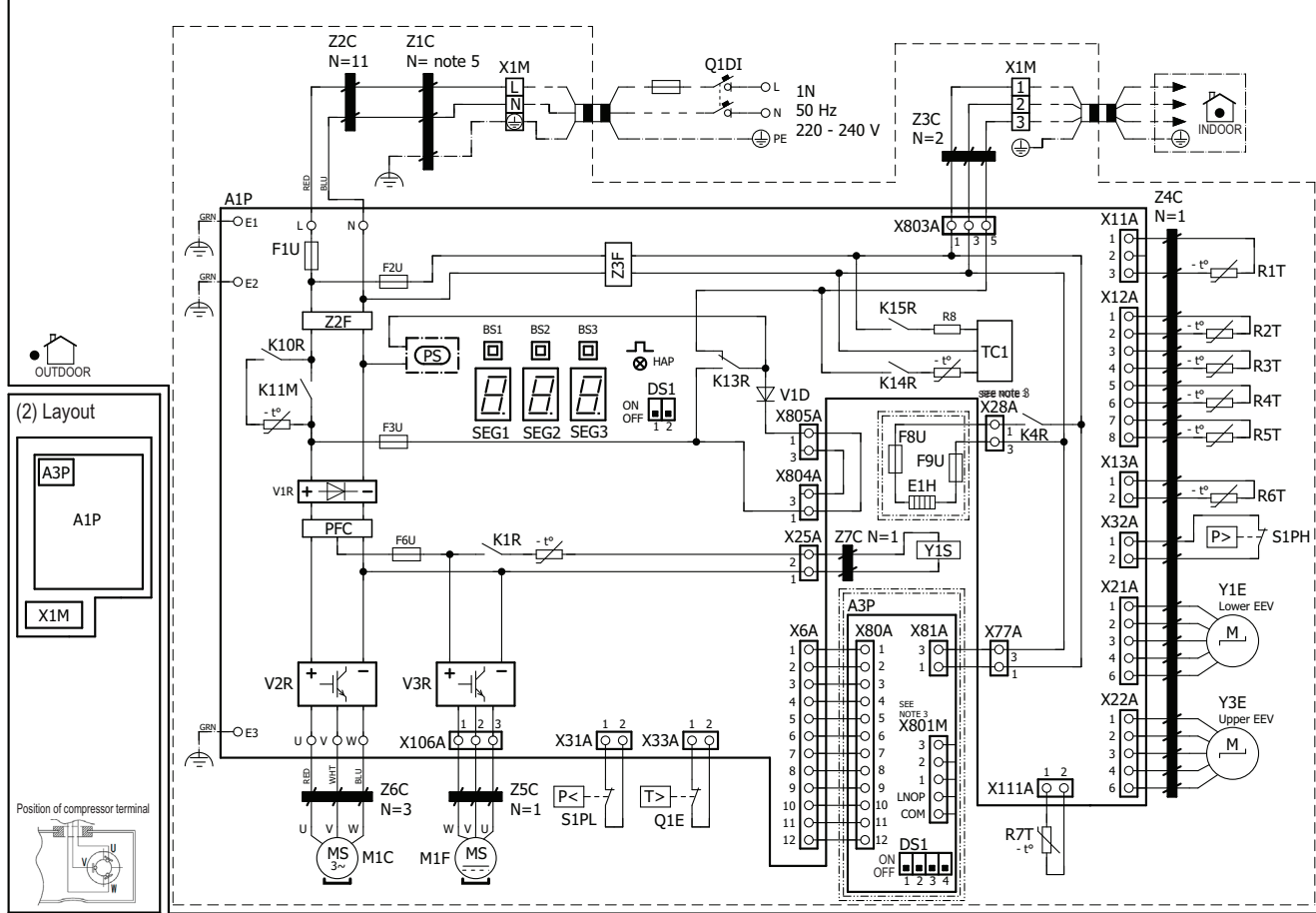
3D120915

# 10 Wiring diagrams

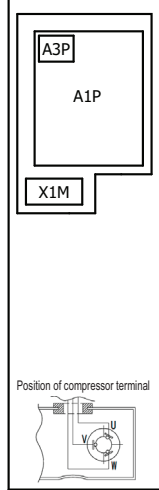
## 10 - 1 Wiring Diagrams - Single Phase

### RZAG71-100NV1

(1) Connection diagram



(2) Layout



### (3) NOTES

|     |                 |     |                             |
|-----|-----------------|-----|-----------------------------|
| •   | : Connection    | □   | : switch box                |
| X1M | : Main terminal | □   | : PCB                       |
| --- | : Earth wiring  | --- | : Wiring depending on model |
| --- | : Field supply  | ⊕   | : Protective earth          |
| --- | : Option        | --- | : Field wire                |

### (4) LEGEND

| Part n°             | Description                                     |
|---------------------|-------------------------------------------------|
| A1P                 | Printed circuit board (main)                    |
| A3P                 | * Printed circuit board (demand)                |
| BS1~3 (A1P)         | Push-button switch                              |
| DS1 (A1~2P)         | Dipswitch                                       |
| E1~3 (A1P)          | Connector                                       |
| E1H                 | * Bottom plate heater                           |
| F1U (A1P)           | Fuse T 31,5 A 250 V                             |
| F2U (A1P)           | Fuse T 6,3 A 250 V                              |
| F3U (A1P)           | Fuse T 6,3 A 250 V                              |
| F6U (A1P)           | Fuse T 5 A 250V                                 |
| F8~9U               | * Fuse F 1 A 250 V                              |
| HAP (A1P)           | Light-emitting diode (service monitor is green) |
| K1R (A1P)           | Magnetic relay (Y1S)                            |
| K4R (A1P)           | Magnetic relay (E1H)                            |
| K13~15R, K10R (A1P) | Magnetic relay                                  |
| K11M (A1P)          | Magnetic contactor                              |
| L (A1P)             | Connector                                       |
| M1C                 | Compressor motor                                |
| M1F                 | Fan motor                                       |
| N (A1P)             | Connector                                       |
| PFC (A1P)           | Power factor correction                         |
| PS (A1P)            | Switching power supply                          |

| Part n°       | Description                          |
|---------------|--------------------------------------|
| Q1DI          | Earth leakage circuit breaker (30mA) |
| Q1E           | Overload protection                  |
| R1T           | Thermistor (air)                     |
| R2T           | Thermistor (discharge)               |
| R3T           | Thermistor (suction)                 |
| R4T           | Thermistor (heat exchanger)          |
| R5T           | Thermistor (heat exchanger middle)   |
| R6T           | Thermistor (liquid)                  |
| R7T           | Thermistor (fin)                     |
| R8 (A1P)      | Resistor                             |
| S1PH          | High pressure switch                 |
| S1PL          | Low pressure switch                  |
| SEG1~3 (A1P)  | 7-segment display                    |
| TC1 (A1P)     | Signal transceiver circuit           |
| U, V, W (A1P) | Connector                            |
| V1D (A1P)     | Diode                                |
| V*R (A1P)     | Diode module                         |
| X*A (A1P)     | Connector                            |
| X1M           | Terminal strip                       |
| Y1E, Y3E      | Electronic expansion valve           |
| Y1S           | Solenoid valve (4-way valve)         |
| Z*C           | Noise filter (ferrite core)          |
| Z*F (A1P)     | Noise filter                         |

\* : optional  
# : field supply

### NOTES

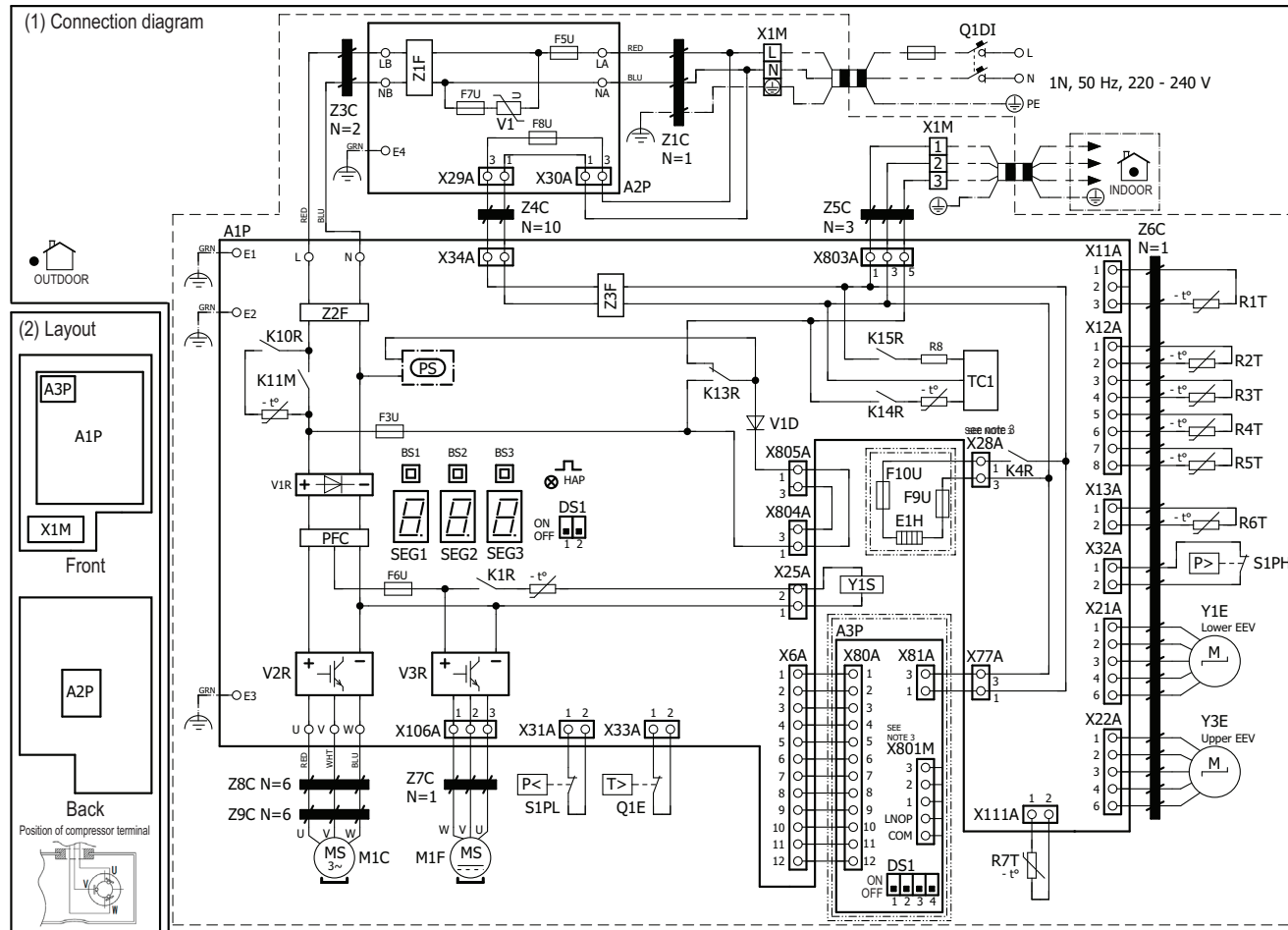
- Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1~BS3 and DS1 switches.
- When operating, do not short-circuit protection device(s) S1PH, S1PL and Q1E.
- Refer to the combination table and the option manual for how to connect the wiring to X28A and X801M.
- Colours: BLK:black; RED:red; BLU:blue; WHT:white; GRN:green
- Windings: L-N: 2 - Earth: 1

4D120909

## 10 Wiring diagrams

# RZAG125-140NV1

(1) Connection diagram



### (3) NOTES

- |                                                                                     |                 |                                                                                     |                             |
|-------------------------------------------------------------------------------------|-----------------|-------------------------------------------------------------------------------------|-----------------------------|
|  | : Connection    |  | : switch box                |
| X1M                                                                                 | : Main terminal |  | : PCB                       |
|  | : Earth wiring  |  | : Wiring depending on model |
|  | : Field supply  |  | : Protective earth          |
|  | : Option        |  | : Field wire                |

#### (4) LEGEND

| Part n°                | Description                                        |
|------------------------|----------------------------------------------------|
| A1P                    | Printed circuit board (main)                       |
| A2P                    | Printed circuit board (noise filter)               |
| A3P                    | * Printed circuit board (demand)                   |
| BS1~3 (A1P)            | Push-button switch                                 |
| DS1(A1P,A3P)           | Dipswitch                                          |
| E1~3 (A1~2P)           | Connector                                          |
| E1H                    | * Bottom plate heater                              |
| F3U (A1P)              | Fuse T 6,3 A 250 V                                 |
| F5U (A2P)              | Fuse T 56 A 250V                                   |
| F6U (A1P)              | Fuse T 5 A 250V                                    |
| F7U (A2P)              | Fuse T 6,3 A 250 V                                 |
| F8U (A2P)              | Fuse T 6,3 A 250 V                                 |
| F9~10U                 | Fuse F 1 A 250 V                                   |
| HAP (A1P)              | Light-emitting diode<br>(service monitor is green) |
| K1R (A1P)              | Magnetic relay (Y1S)                               |
| K4R (A1P)              | Magnetic relay (E1H)                               |
| K13~15R,<br>K10R (A1P) | Magnetic relay                                     |
| K11M (A1P)             | Magnetic contactor                                 |
| L* (A1~2P)             | Connector                                          |
| M1C                    | Compressor motor                                   |
| M1F                    | Fan motor                                          |
| PFC (A1P)              | Power factor correction                            |

| Part n°       | Description                          |
|---------------|--------------------------------------|
| PS (A1P)      | Switching power supply               |
| Q1DI          | Earth leakage circuit breaker (30mA) |
| Q1E           | Overload protection                  |
| R1T           | Thermistor (air)                     |
| R2T           | Thermistor (discharge)               |
| R3T           | Thermistor (suction)                 |
| R4T           | Thermistor (heat exchanger)          |
| R5T           | Thermistor (heat exchanger middle)   |
| R6T           | Thermistor (liquid)                  |
| R7T           | Thermistor (fin)                     |
| R8 (A1P)      | Resistor                             |
| S1PH          | High pressure switch                 |
| S1PL          | Low pressure switch                  |
| SEG1~3 (A1P)  | 7-segment display                    |
| TC1 (A1P)     | Signal transceiver circuit           |
| U, V, W (A1P) | Connector                            |
| V1 (A2P)      | Varistor                             |
| V1D (A1P)     | Diode                                |
| V*R (A1P)     | Diode module                         |
| X*A (A1~2P)   | Connector                            |
| X1M           | Terminal strip                       |
| Y1E, Y3E      | Electronic expansion valve           |
| Y1S           | Solenoid valve (4-way valve)         |
| Z*C           | Noise filter (ferrite core)          |
| Z*F (A1~2P)   | Noise filter                         |

\* : optional  
# : field supply

## NOTES

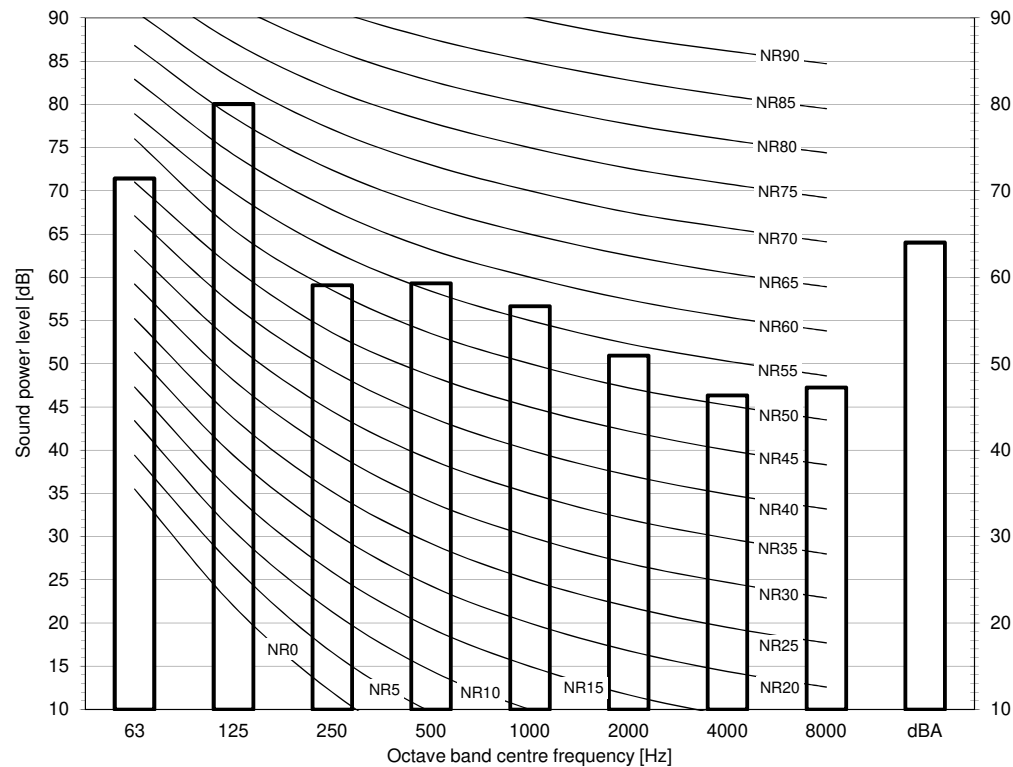
1. Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1-BS3 and DS1 switches.
2. When operating, do not short-circuit protection device(s) S1PH, S1PL and Q1E.
3. Refer to the combination table and the option manual for how to connect the wiring to X2BA and X801M.
4. Colours: BLK:black; RED:red; BLU:blue; WHT:white; GRN:green

**4D120910**

# 11 Sound data

## 11 - 1 Sound Power Spectrum

RZAG71NV1  
RZAG71NY1

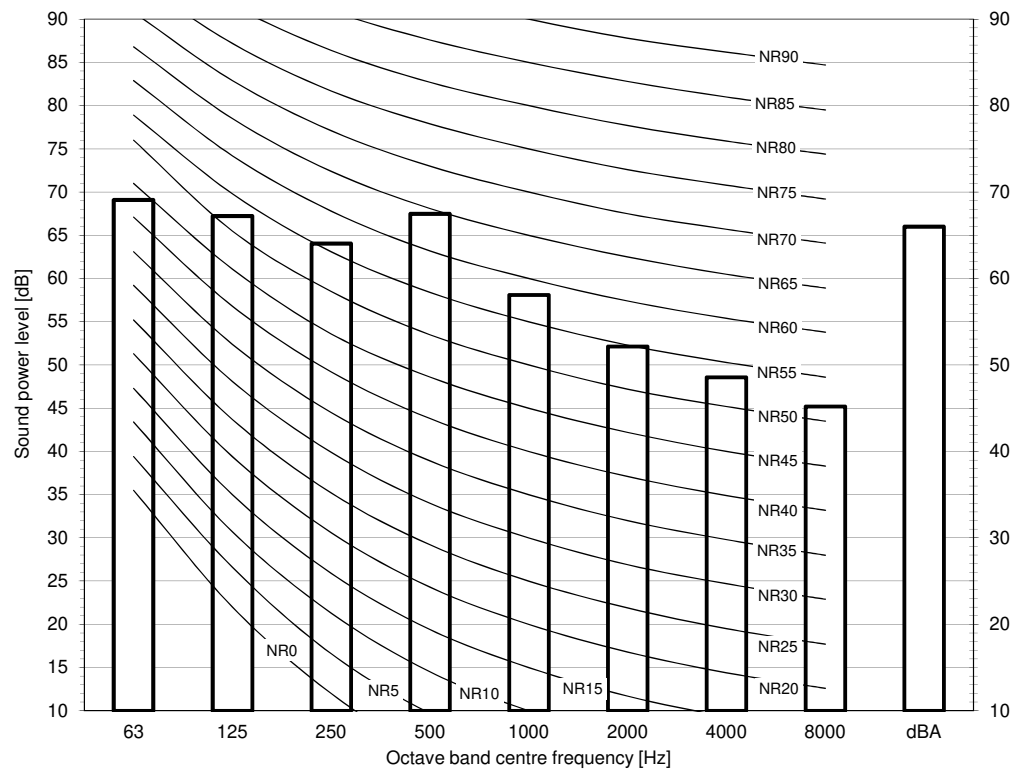


**Notes**

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB =  $\cdot 10E-6\mu W/m^2$ .
- Measured according to ISO 3744

3D125149

RZAG100NV1  
RZAG100NY1



**Notes**

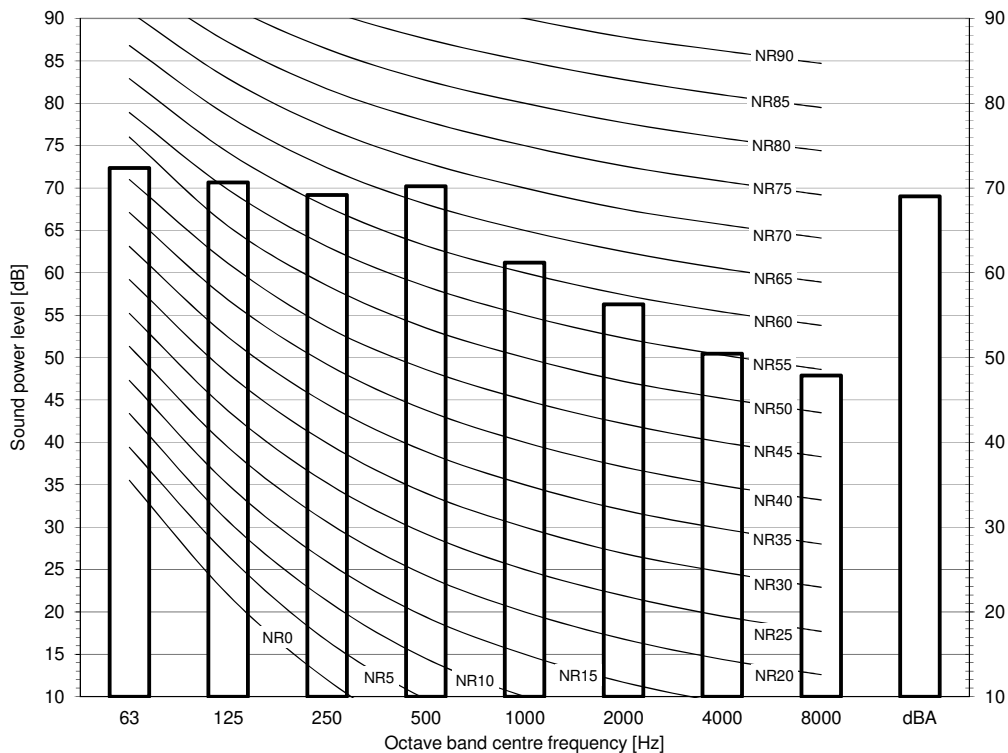
- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB =  $\cdot 10E-6\mu W/m^2$ .
- Measured according to ISO 3744

3D125155

# 11 Sound data

## 11 - 1 Sound Power Spectrum

RZAG125NV1  
RZAG125NY1

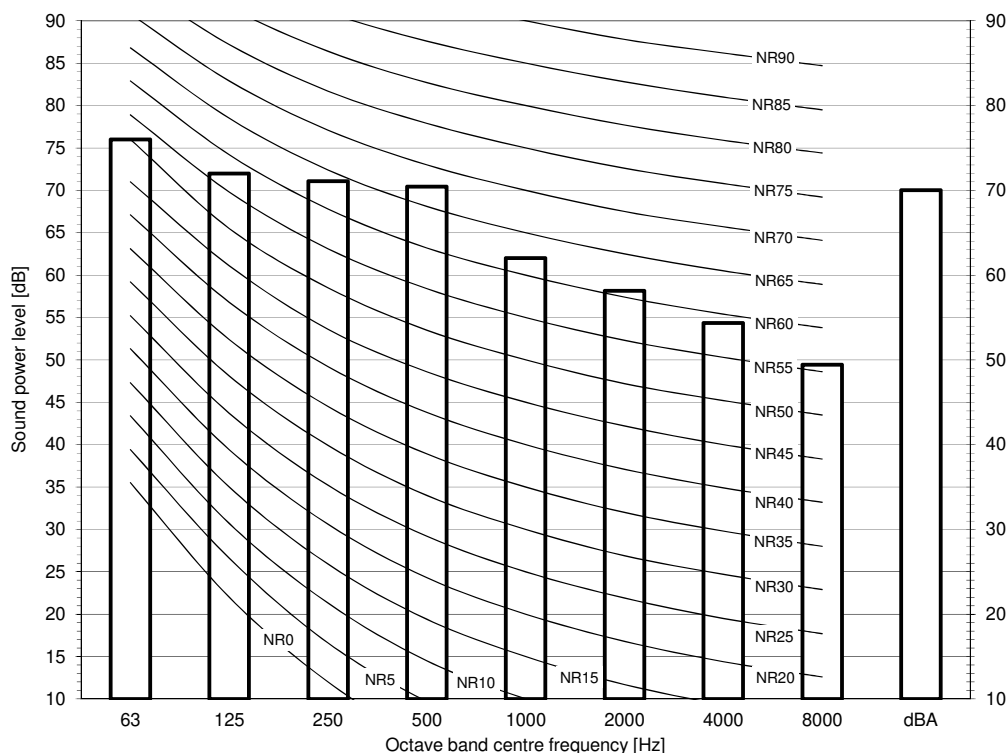


### Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB =  $10E-6 \mu W/m^2$ .
- Measured according to ISO 3744

3D125161

RZAG140NV1  
RZAG140NY1



### Notes

- dBA = A-weighted sound power level (A scale according to IEC).
- Reference acoustic intensity 0dB =  $10E-6 \mu W/m^2$ .
- Measured according to ISO 3744

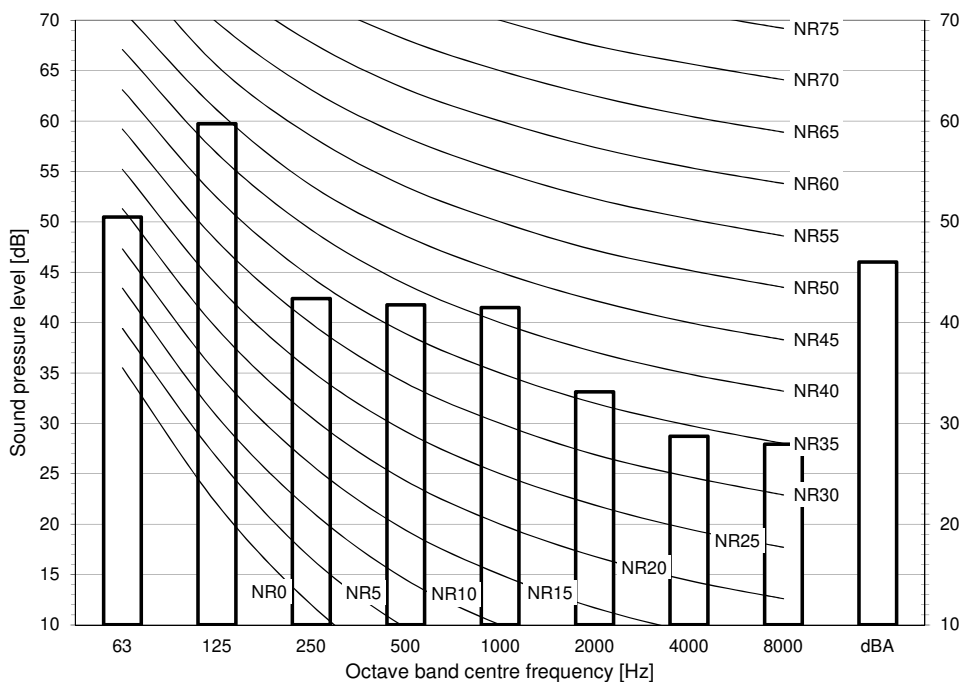
3D125167

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum - Cooling

RZAG71NV1

RZAG71NY1



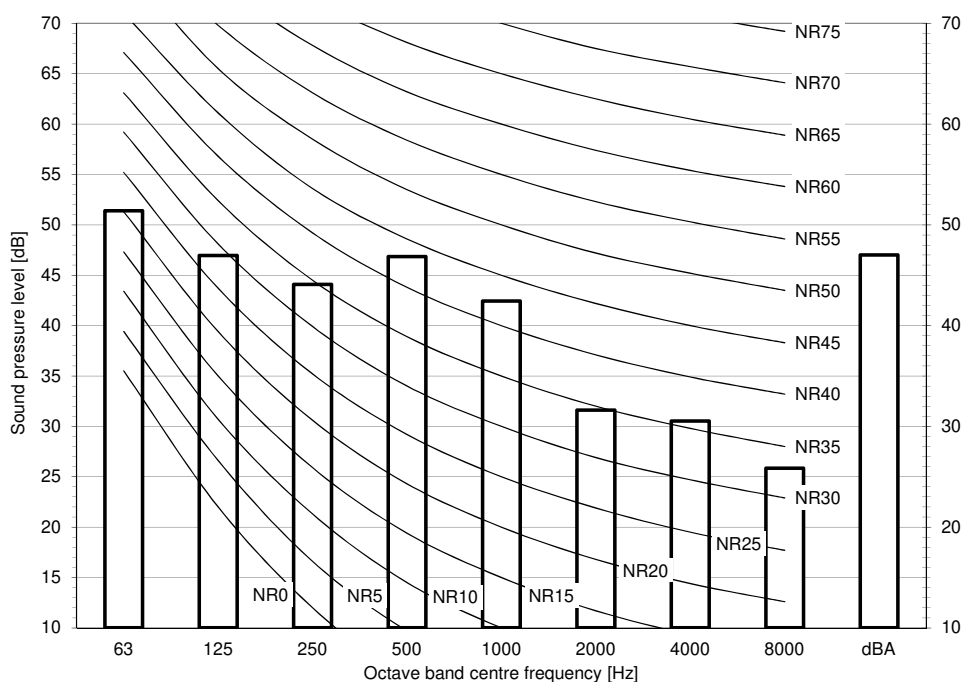
### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125147

RZAG100NV1

RZAG100NY1



### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

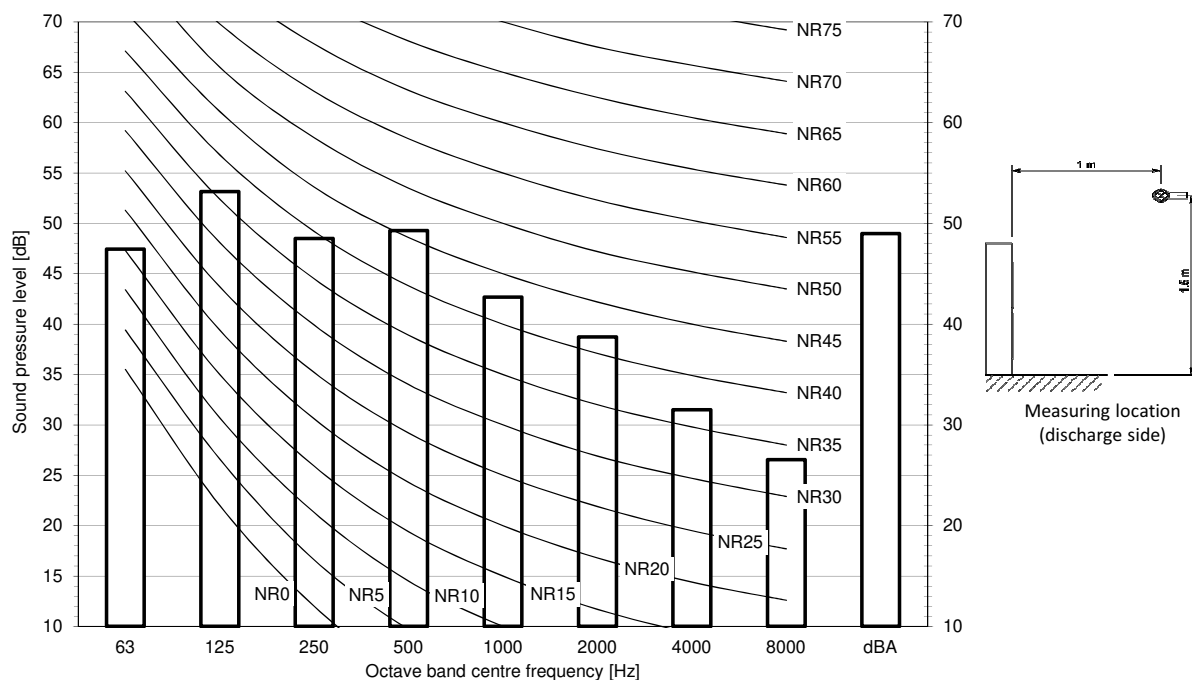
3D125153

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum - Cooling

RZAG125NV1

RZAG125NY1



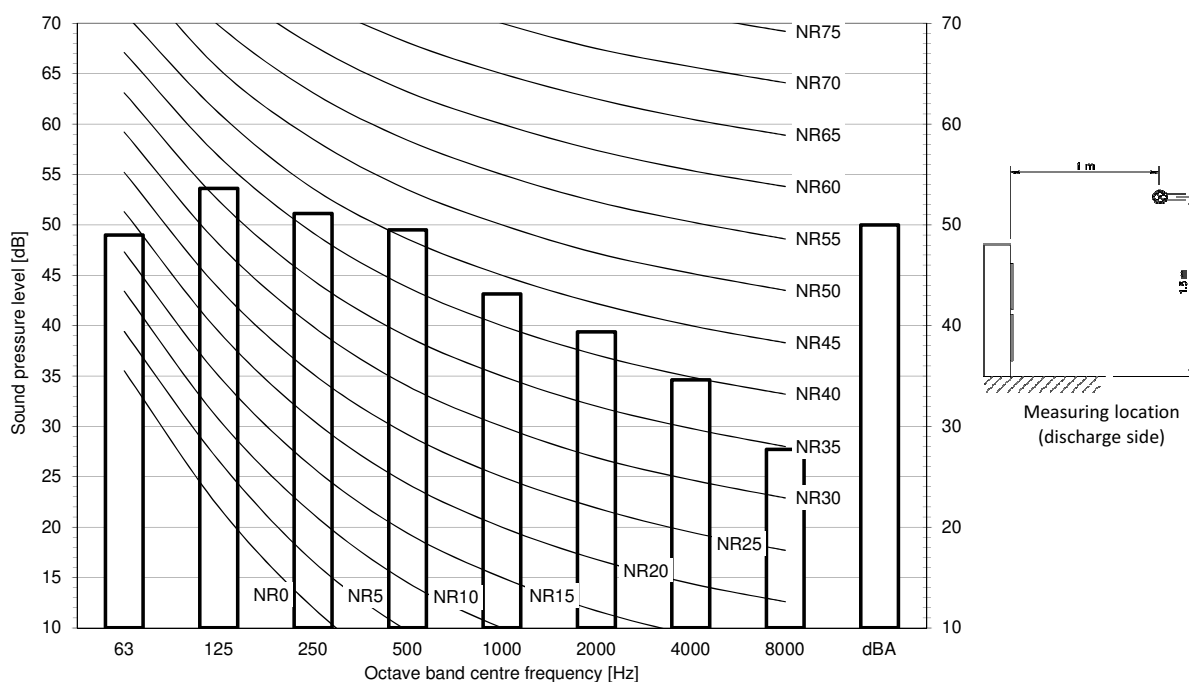
### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125159

RZAG140NV1

RZAG140NY1



### Notes

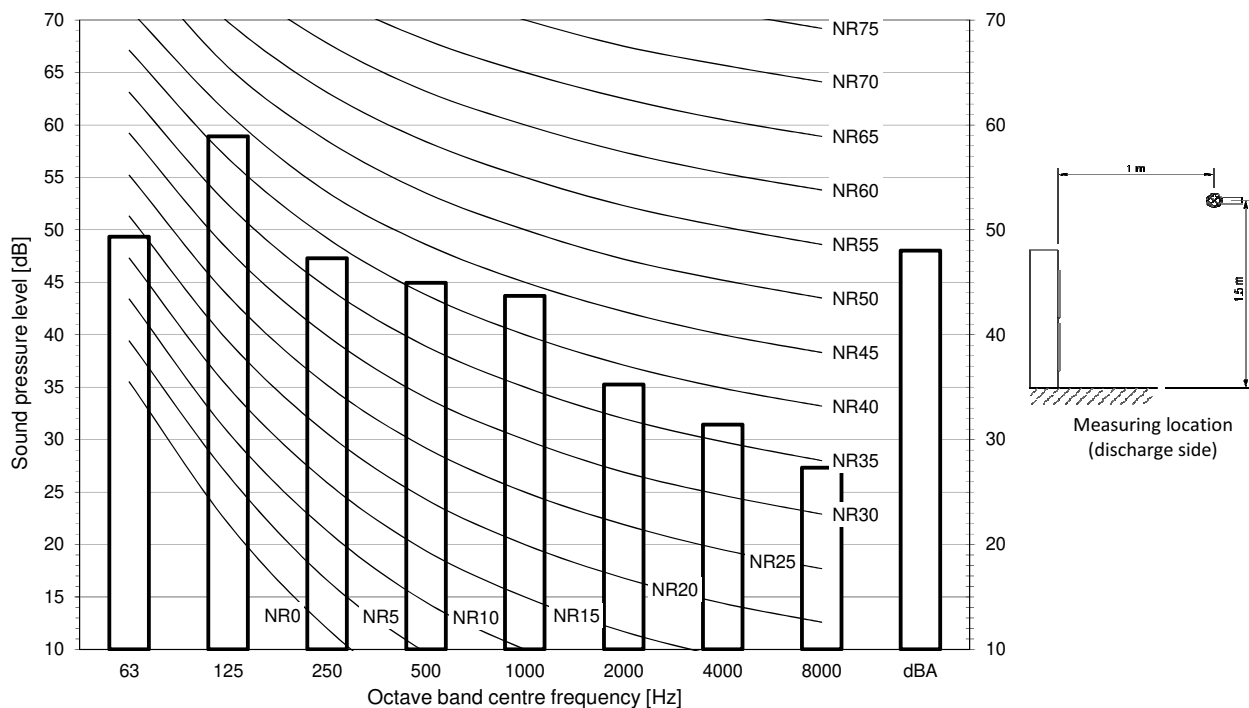
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125165

# 11 Sound data

## 11 - 3 Sound Pressure Spectrum - Heating

RZAG71NV1  
RZAG71NY1

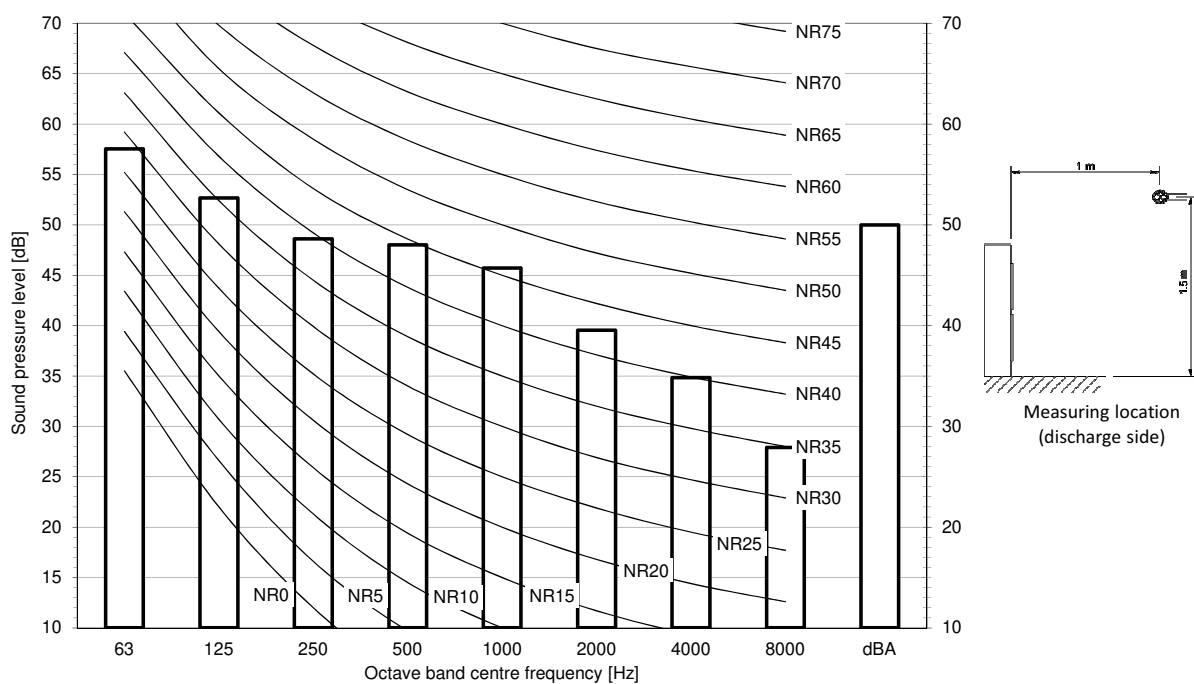


### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125148

RZAG100NV1  
RZAG100NY1



### Notes

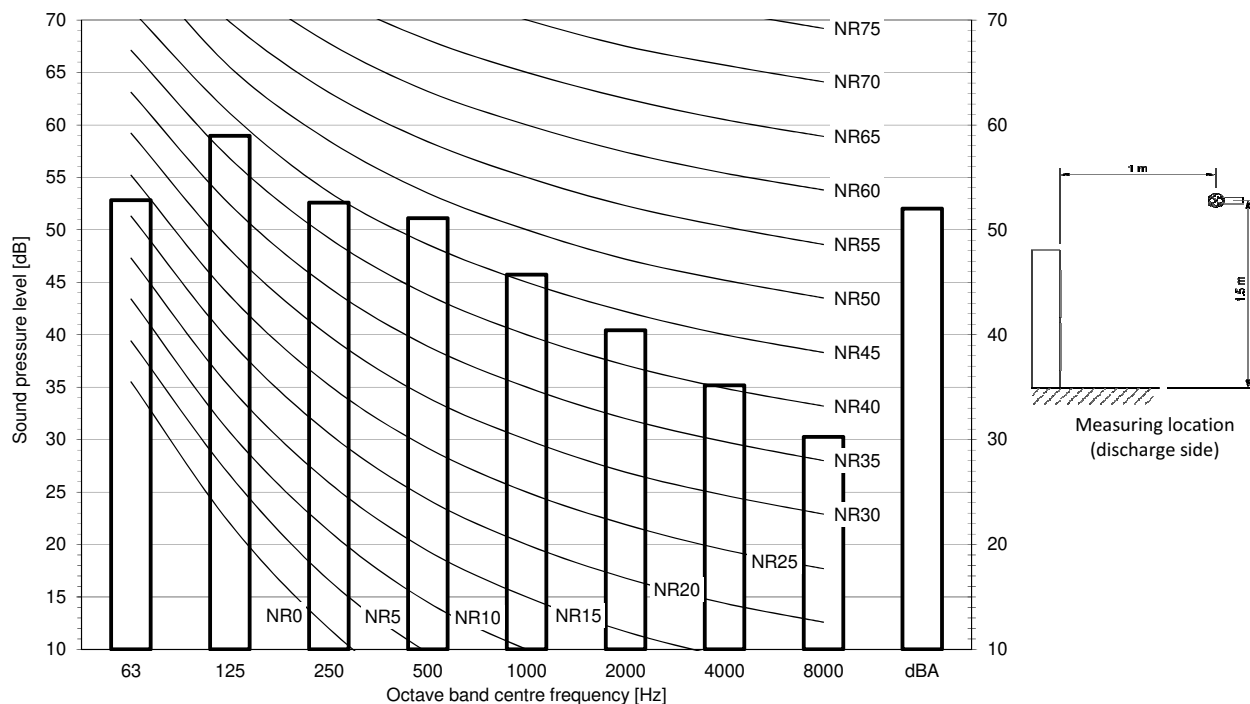
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125154

# 11 Sound data

## 11 - 3 Sound Pressure Spectrum - Heating

RZAG125NV1  
RZAG125NY1

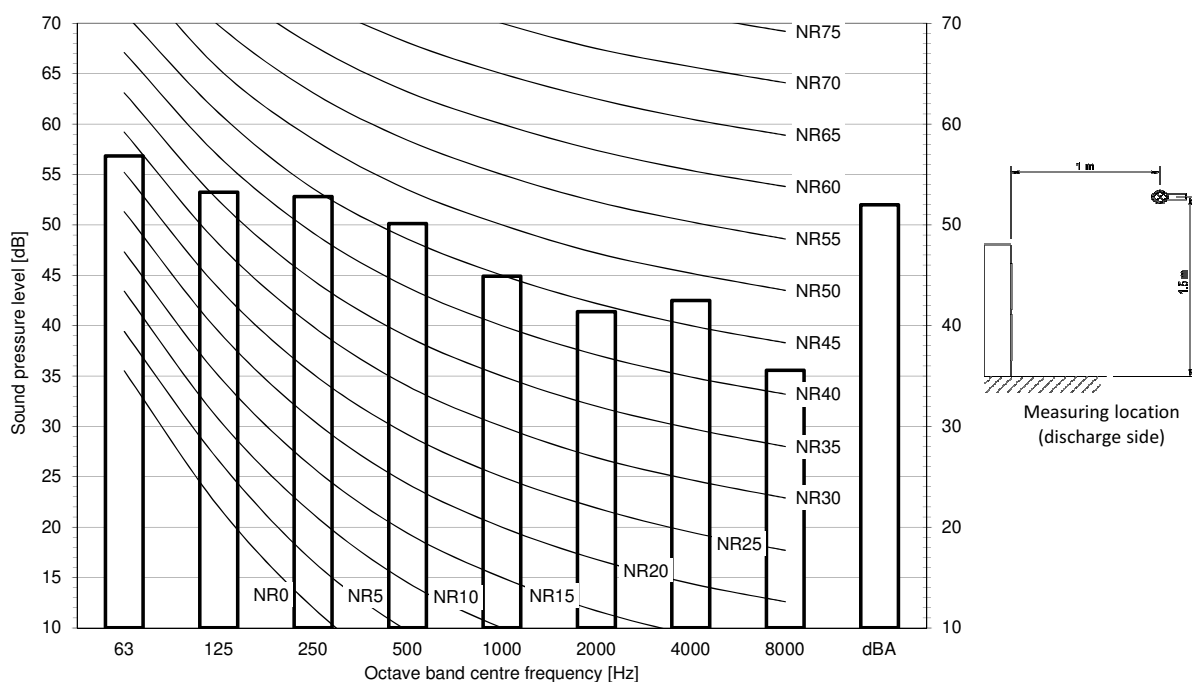


### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125160

RZAG140NV1  
RZAG140NY1



### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

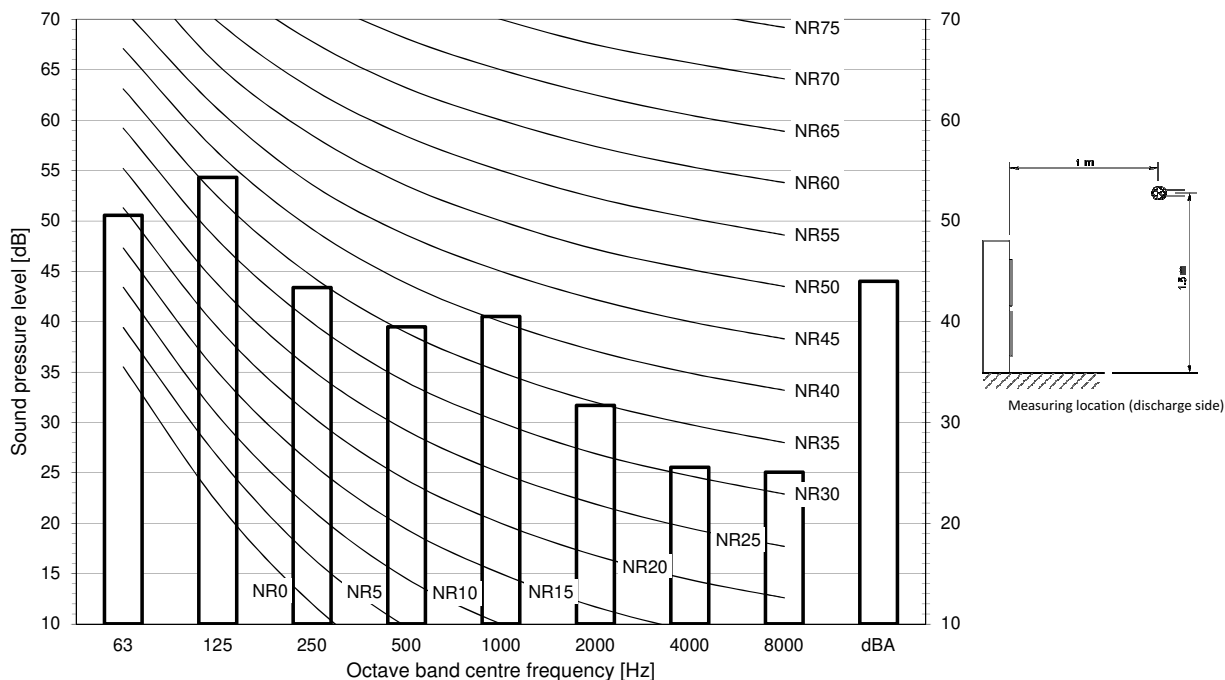
3D125166

# 11 Sound data

## 11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG71NV1  
RZAG71NY1

LEVEL 1



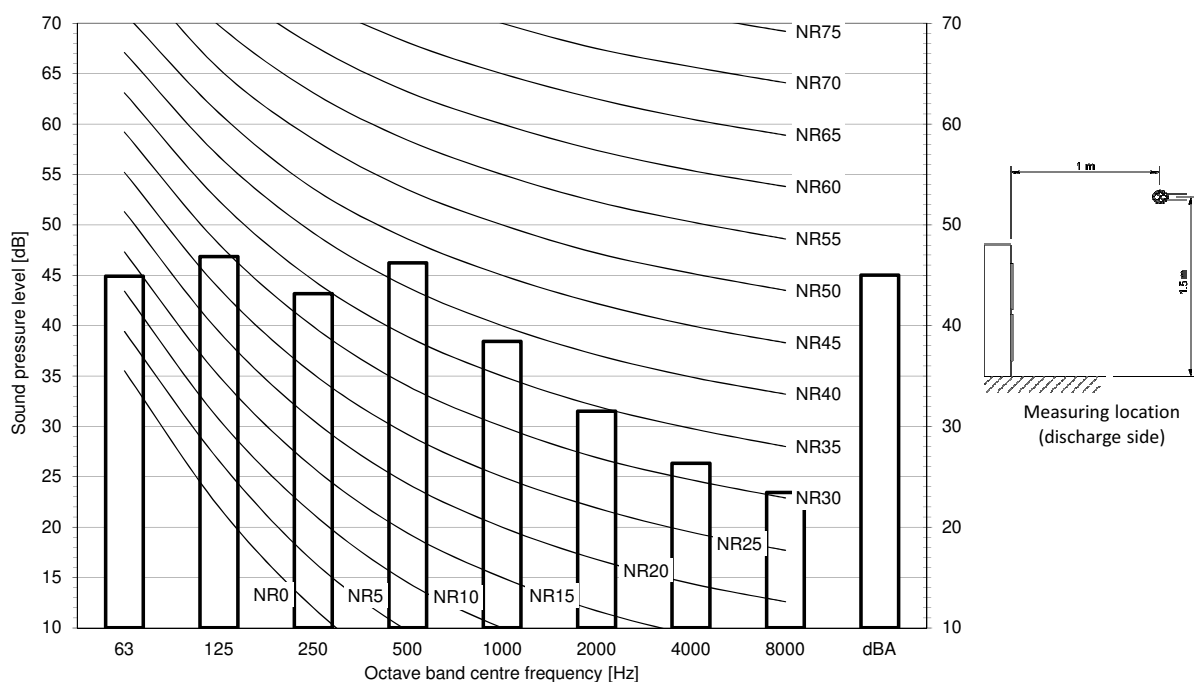
### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125144

RZAG100NV1  
RZAG100NY1

LEVEL 1



### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

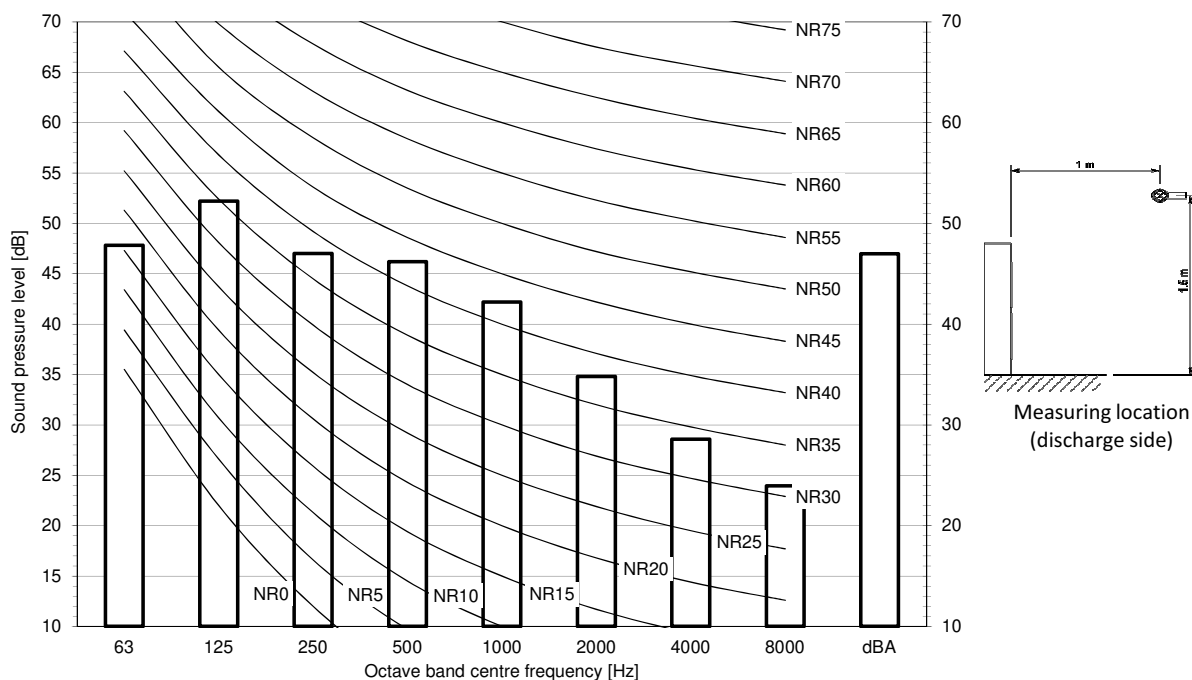
3D125150

# 11 Sound data

## 11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG125NV1  
RZAG125NY1

LEVEL 1



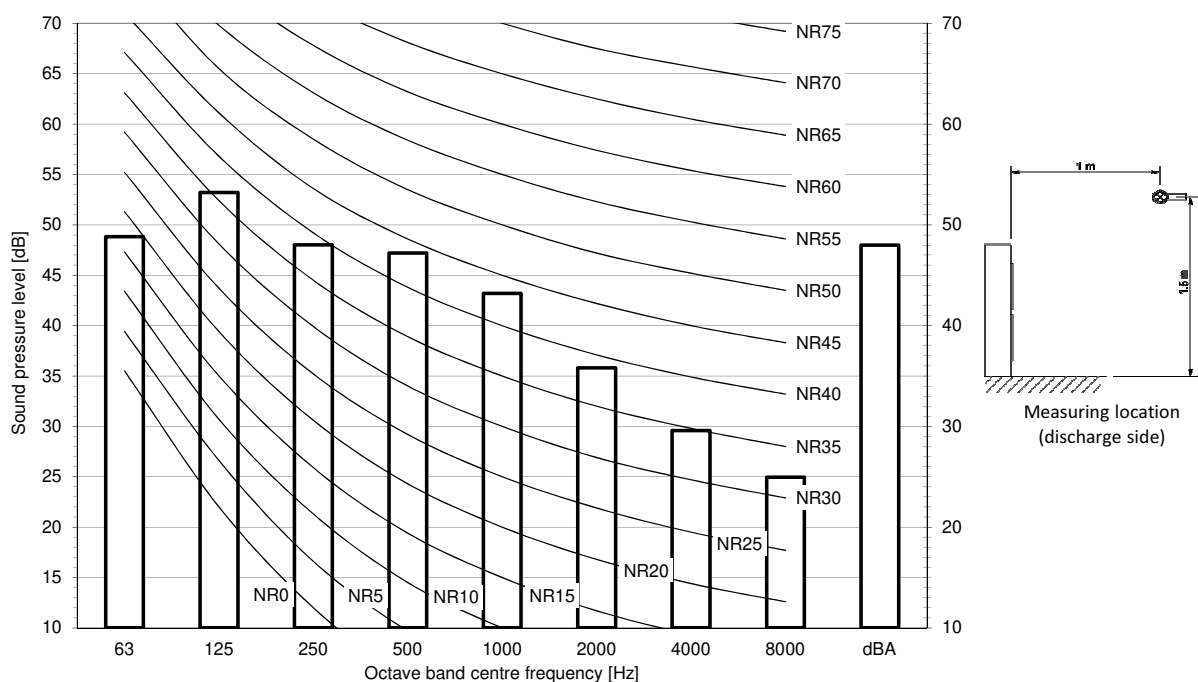
### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125156

RZAG140NV1  
RZAG140NY1

LEVEL 1



### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

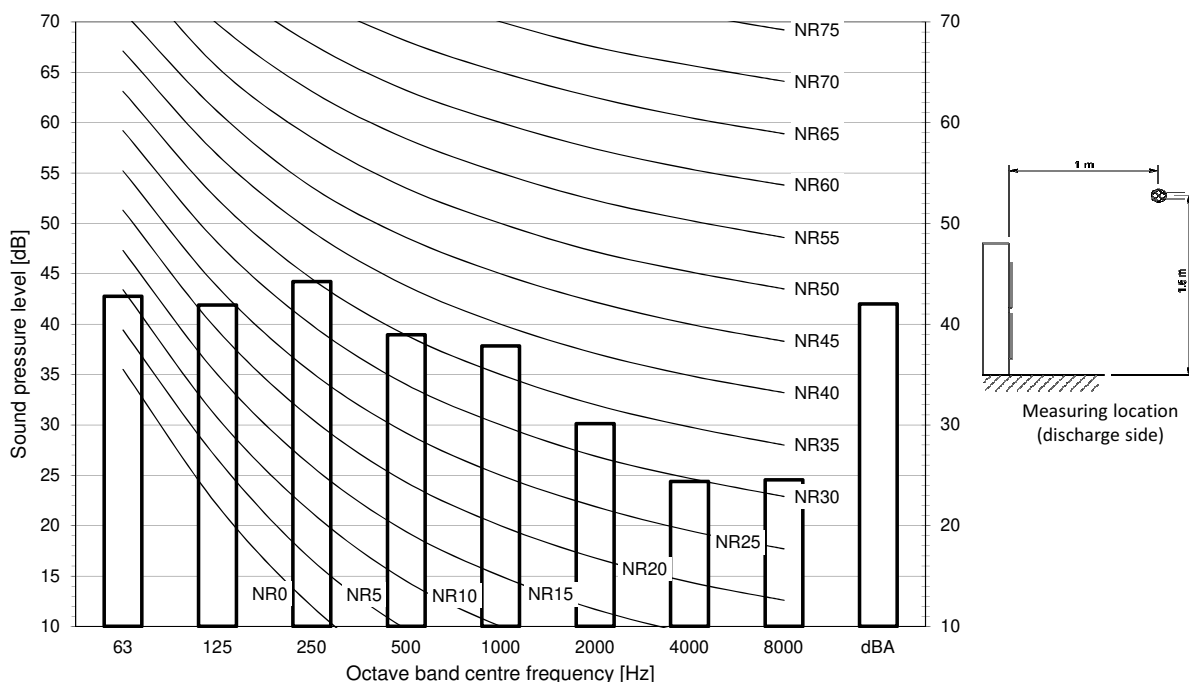
3D125162

# 11 Sound data

## 11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG71NV1  
RZAG71NY1

LEVEL 2



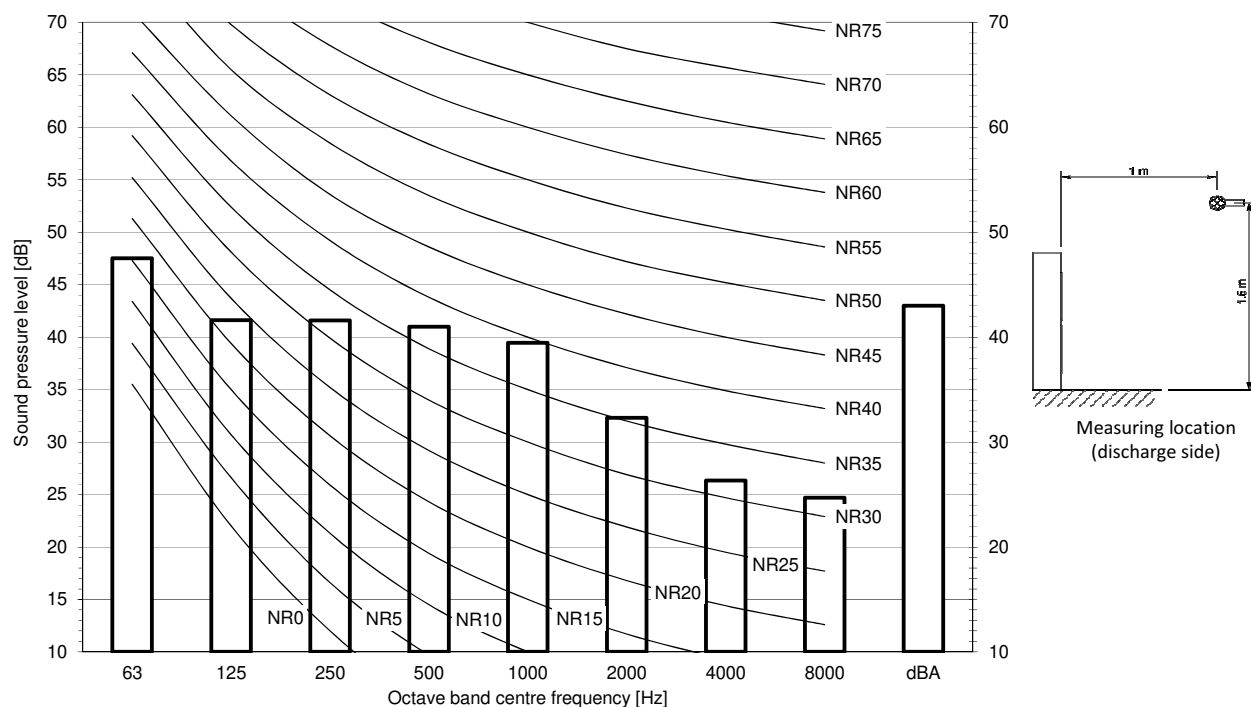
### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125145

RZAG100NV1  
RZAG100NY1

LEVEL 2



### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

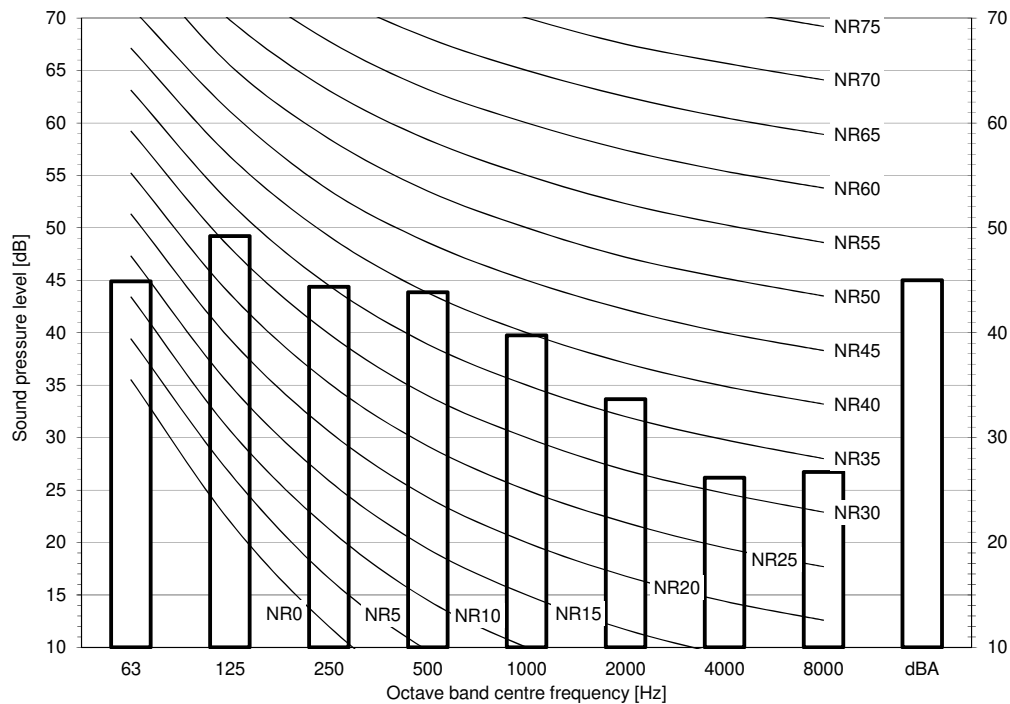
3D125151

# 11 Sound data

## 11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG125NV1  
RZAG125NY1

LEVEL 2



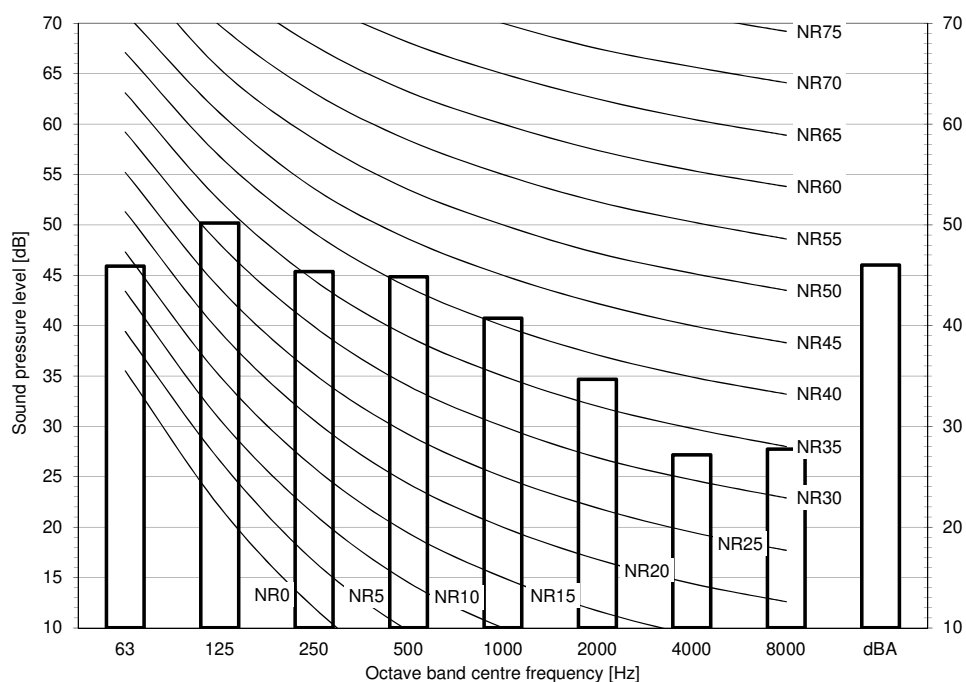
### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125157

RZAG140NV1  
RZAG140NY1

LEVEL 2



### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

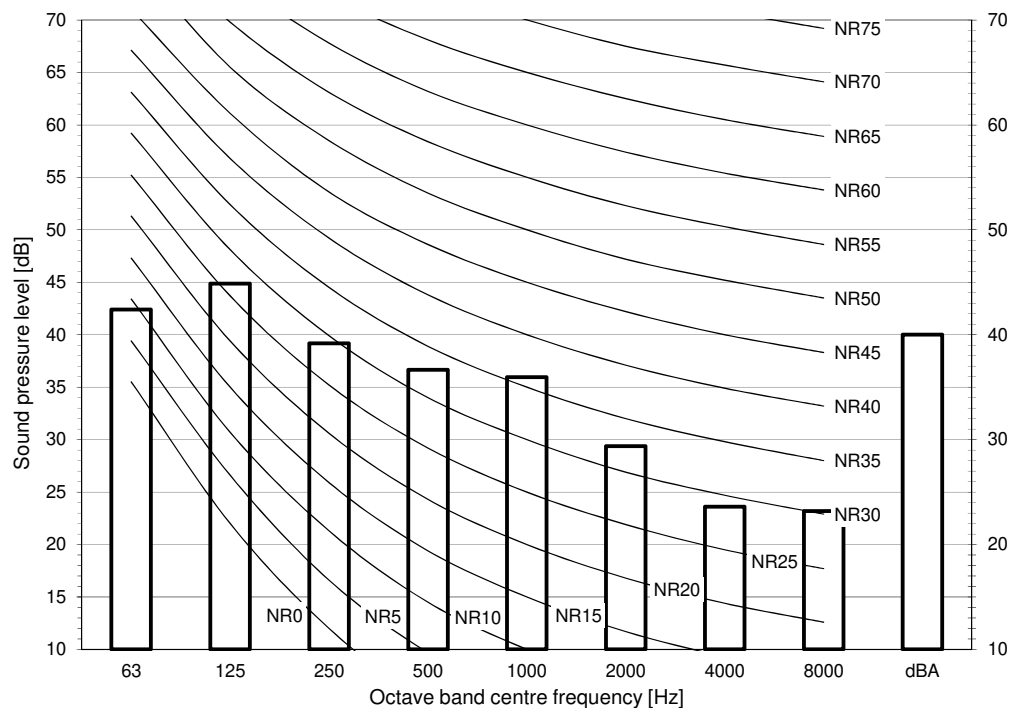
3D125163

# 11 Sound data

## 11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG71NV1  
RZAG71NY1

LEVEL 3



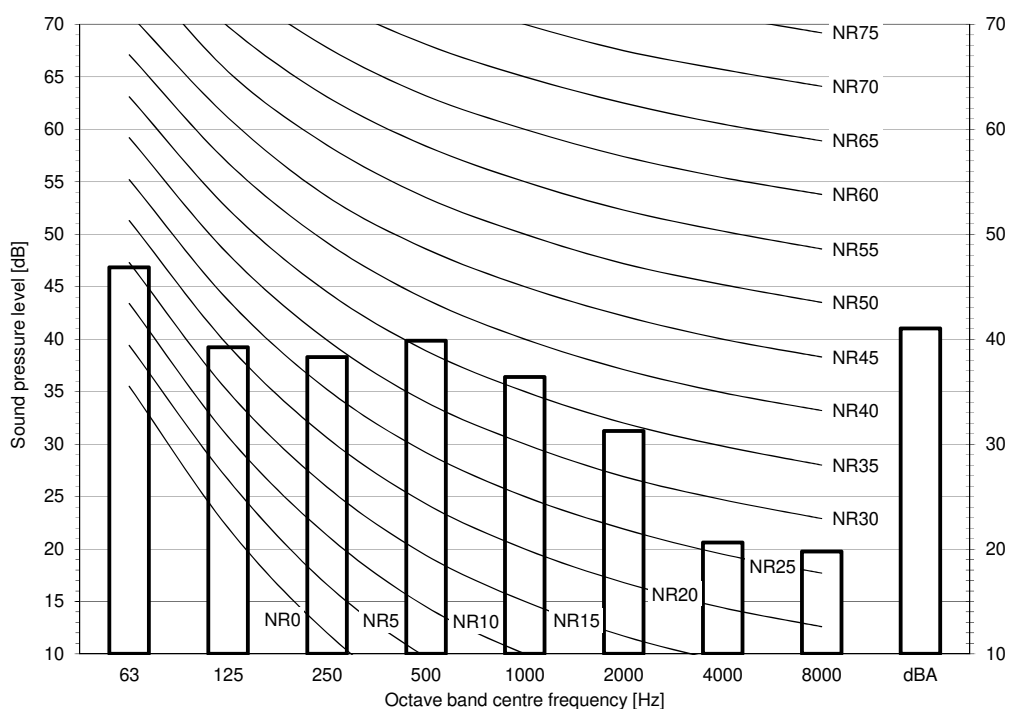
### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125146

RZAG100NV1  
RZAG100NY1

LEVEL 3



### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

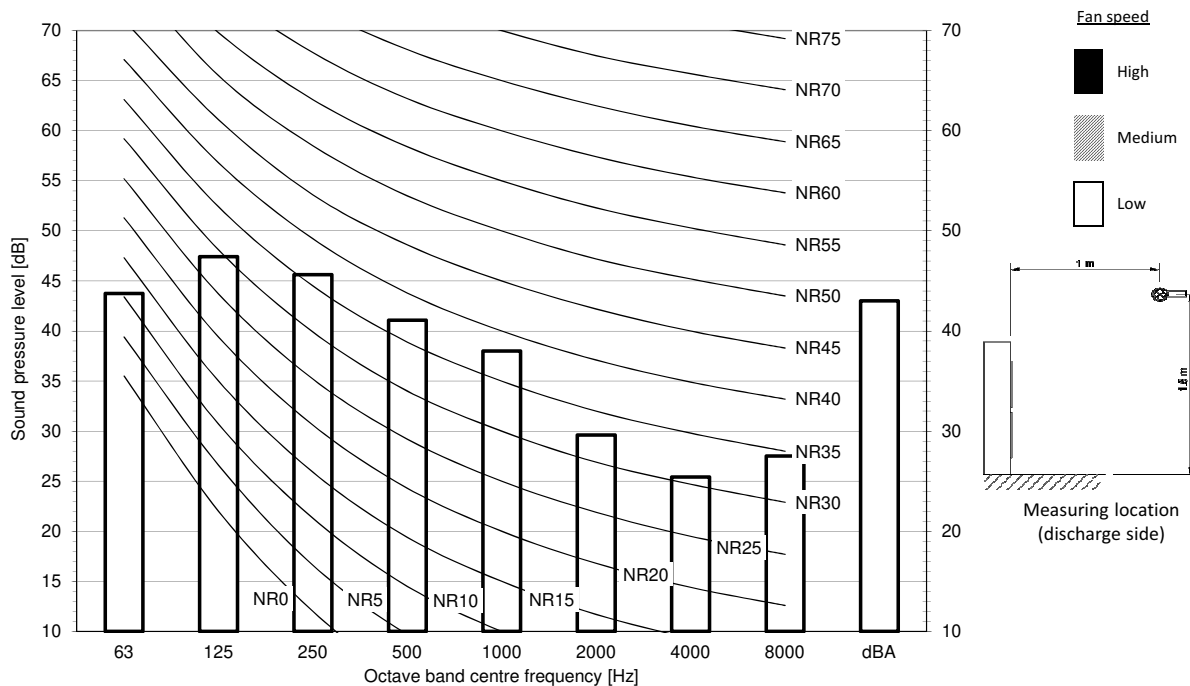
3D125152

# 11 Sound data

## 11 - 4 Sound Pressure Spectrum Quiet Mode

RZAG125NV1  
RZAG125NY1

LEVEL 3



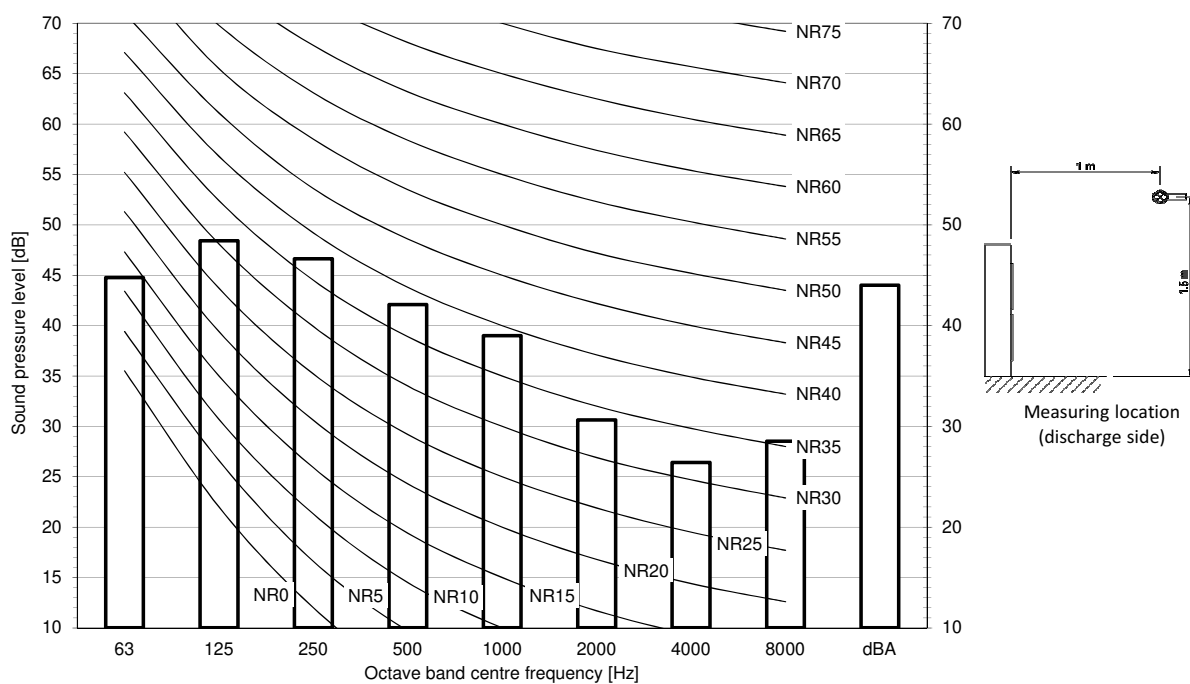
### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125158

RZAG140NV1  
RZAG140NY1

LEVEL 3



### Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20  $\mu$ Pa

3D125164

# 12 Installation

## 12 - 1 Installation Method

### RZAG-NV1 RZAG-NY1

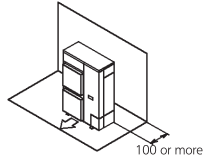
#### Installation service space

The measure of these values is "mm".

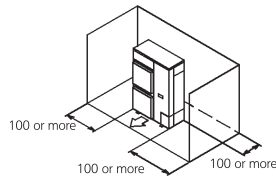
##### (A) When there are obstacles on suction sides.

###### • No obstacle above

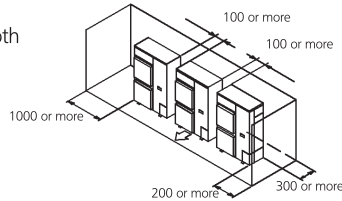
- ① Stand-alone installation
  - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

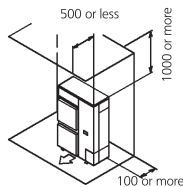


- ② Series installation (2 or more) (Note 1)
  - Obstacle on the suction side and both sides

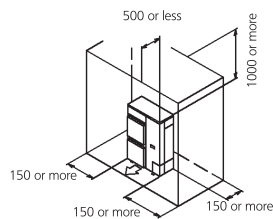


###### • Obstacle above, too.

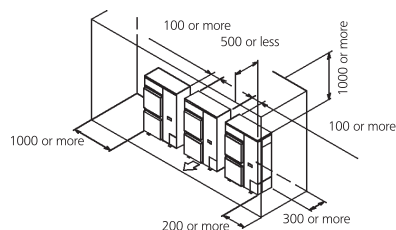
- ① Stand-alone installation
  - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



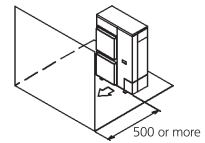
- ② Series installation (2 or more) (Note 1)
  - Obstacle on the suction side and both sides



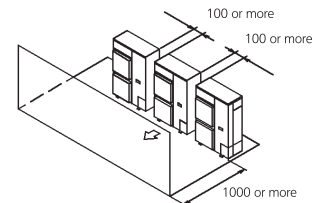
##### (B) When there are obstacles on discharge sides.

###### • No obstacle above

- ① Stand-alone installation
  - Obstacle on the discharge side only

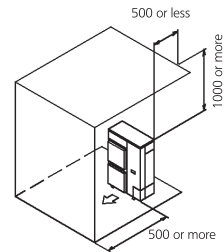


- ② Series installation (2 or more) (Note 1)
  - Obstacle on the discharge side only

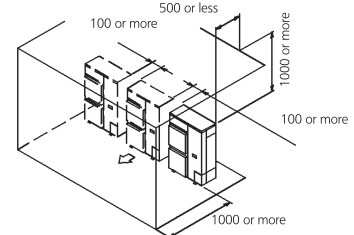


###### • Obstacle above, too

- ① Stand-alone installation
  - Obstacle on the discharge side only, too



- ② Series installation (2 or more) (Note 1)
  - Obstacle on the discharge side



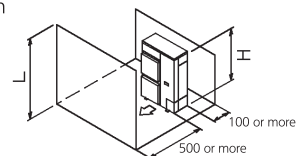
##### (C) When there are obstacles on both suction and discharge sides.:

###### Pattern 1

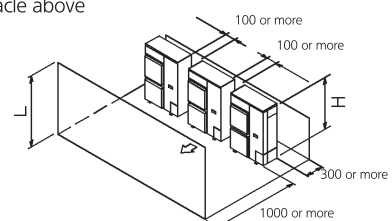
When the obstacles on the discharge side is higher than the unit. (L>H)  
(There is no limit for the height of obstructions on the suction side.)

###### • No obstacle above

- ① Stand-alone installation
  - No obstacle above



- ② Series installation (2 or more) (Note 1)
  - No obstacle above



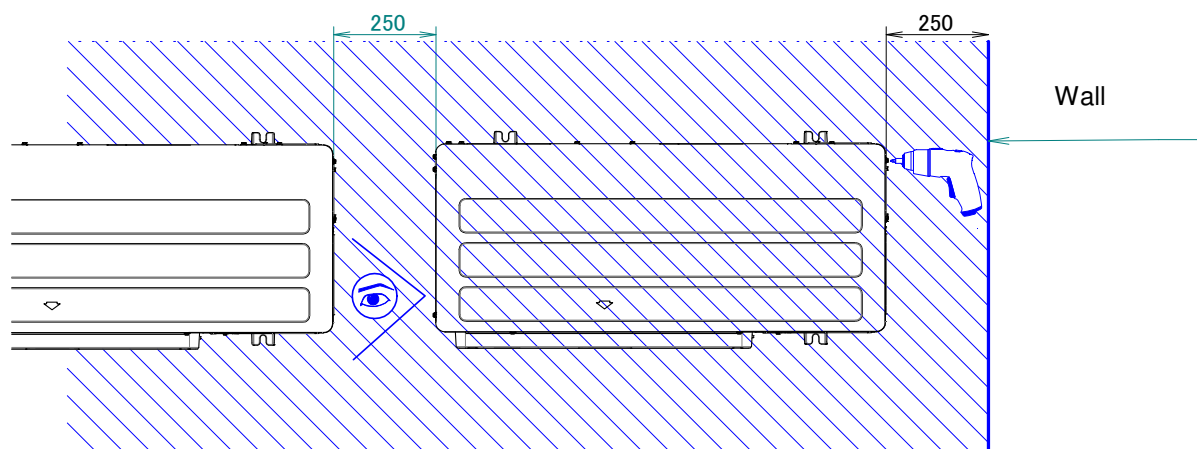
3D069554



## 12 Installation

### 12 - 1 Installation Method

RZAG-NV1  
RZAG-NY1



\* For optimal serviceability, provide  $\geq 250$ ·mm of free space.  
For more installation and service space guidelines, see drawing ·3D069554·.

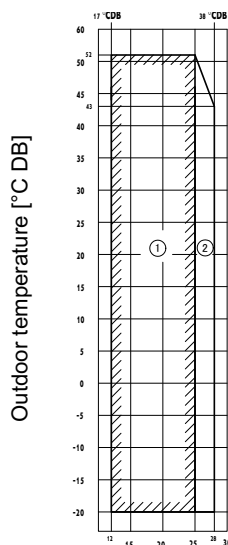
3D120935

# 13 Operation range

## 13 - 1 Operation Range

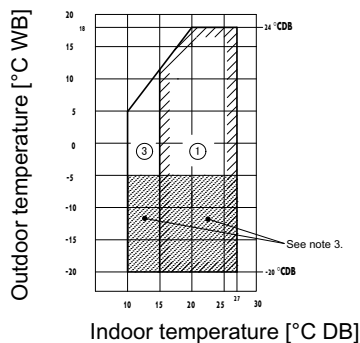
### RZAG-NV1 RZAG-NY1

#### Cooling



- ① Operation range
- ② Pull-down operation range
- ③ Warm-up operation range

#### Heating



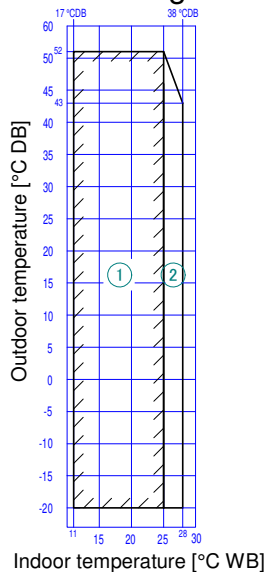
#### Notes

1. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
2. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
3. If the unit is selected to operate at ambient temperature  $< -5^{\circ}\text{C}$  for 5 days or more, with relative humidity of 100%, it is required to install the optional bottom plate heater.

3D110020A

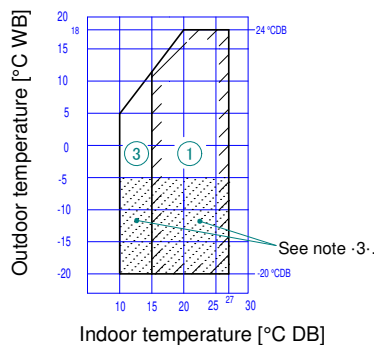
### RZAG-NV1 RZAG-NY1

#### Cooling



- ① Operation range
- ② Pull-down operation range
- ③ Warm-up operation range

#### Heating



#### Notes

1. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
2. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
3. If the unit is selected to operate at ambient temperature  $< -5^{\circ}\text{C}$  for 5 days or more, with relative humidity of 100%, it is required to install the optional bottom plate heater.

3D110022

# 14 Appropriate Indoors

## 14 - 1 Appropriate Indoors

### RZAG-NV1

### RZAG-NY1

#### ENER Lot 21

#### Appropriate indoor units

#### Connectable to RZAG125N7V1B / RZAG125N7Y1B and covered by ENER Lot 21

|          |         |       |        |       |        |   |        |        |        |        |   |
|----------|---------|-------|--------|-------|--------|---|--------|--------|--------|--------|---|
| FCAHG125 | FCAG35  | FFA35 | FBA35  | FNA35 | FUA125 | - | FDA125 | FVA125 | FDXM35 | FHA35  | - |
| -        | FCAG50  | FFA50 | FBA50  | FNA50 | -      | - | -      | -      | FDXM50 | FHA50  | - |
| -        | FCAG60  | FFA60 | FBA60  | FNA60 | -      | - | -      | -      | FDXM60 | FHA60  | - |
| -        | FCAG125 | -     | FBA125 | -     | -      | - | -      | -      | -      | FHA125 | - |

#### Connectable to RZAG140N7V1B / RZAG140N7Y1B and covered by ENER Lot 21

|          |         |       |        |       |       |       |   |        |        |        |   |
|----------|---------|-------|--------|-------|-------|-------|---|--------|--------|--------|---|
| FCAHG71  | FCAG35  | FFA35 | FBA35  | FNA35 | FUA71 | FAA71 | - | FVA71  | FDXM35 | FHA35  | - |
| FCAHG140 | FCAG50  | FFA50 | FBA50  | FNA50 | -     | -     | - | FVA140 | FDXM50 | FHA50  | - |
| -        | FCAG71  | -     | FBA71  | -     | -     | -     | - | -      | -      | FHA71  | - |
| -        | FCAG140 | -     | FBA140 | -     | -     | -     | - | -      | -      | FHA140 | - |

#### ENER Lot 10

#### Appropriate indoor units

#### Connectable to RZAG71N7V1B / RZAG71N7Y1B and covered by ENER Lot 10

|         |        |       |       |       |       |       |   |       |        |       |   |
|---------|--------|-------|-------|-------|-------|-------|---|-------|--------|-------|---|
| FCAHG71 | FCAG35 | FFA35 | FBA35 | FNA35 | FUA71 | FAA71 | - | FVA71 | FDXM35 | FHA35 | - |
| -       | FCAG71 | -     | FBA71 | -     | -     | -     | - | -     | -      | FHA71 | - |

#### Connectable to RZAG100N7V1B / RZAG100N7Y1B and covered by ENER Lot 10

|          |         |       |        |       |        |        |   |        |        |        |   |
|----------|---------|-------|--------|-------|--------|--------|---|--------|--------|--------|---|
| FCAHG100 | FCAG35  | FFA35 | FBA35  | FNA35 | FUA100 | FAA100 | - | FVA100 | FDXM35 | FHA35  | - |
| -        | FCAG50  | FFA50 | FBA50  | FNA50 | -      | -      | - | -      | FDXM50 | FHA50  | - |
| -        | FCAG100 | -     | FBA100 | -     | -      | -      | - | -      | -      | FHA100 | - |

3D120939

### RZAG125-140NV1

### RZAG125-140NY1

#### ENER Lot 21

#### Recommended combinations

| Sky Air      |              | High Cassette |         |         |         | Thin cassette |        |        |        |         |         |         | 2x2 cassette |       |       | Duct (medium ESP) |       |       |       |        |        |        | Concealed floor standing type |       |       | Ceiling-mounted - 4-way blow |        |        | Wall mounted type |        | Duct (high ESP) |  |
|--------------|--------------|---------------|---------|---------|---------|---------------|--------|--------|--------|---------|---------|---------|--------------|-------|-------|-------------------|-------|-------|-------|--------|--------|--------|-------------------------------|-------|-------|------------------------------|--------|--------|-------------------|--------|-----------------|--|
| Model        |              | FCAG71        | FCAG100 | FCAG125 | FCAG140 | FCAG35        | FCAG50 | FCAG60 | FCAG71 | FCAG100 | FCAG125 | FCAG140 | FFA35        | FFA50 | FFA60 | FBA35             | FBA50 | FBA60 | FBA71 | FBA100 | FBA125 | FBA140 | FNA35                         | FNA50 | FNA60 | FUA71                        | FUA100 | FUA125 | FAA71             | FAA100 | FDA125          |  |
| RZAG125N7V1B | RZAG125N7Y1B |               |         | P       |         | 4             |        |        |        |         | P       |         |              |       |       | 4                 |       |       |       |        | P      |        |                               |       |       |                              | P      |        |                   |        | P               |  |
| RZAG140N7V1B | RZAG140N7Y1B |               |         |         | P       | 4             |        |        |        |         |         | P       |              |       |       | 4                 |       |       |       |        |        | P      |                               |       |       |                              |        |        |                   |        |                 |  |

| Sky Air      |              | Floor standing type |        |        |        | Slim duct |        |        | Ceiling-suspended |       |       |       |        |        | Floor standing type |        |
|--------------|--------------|---------------------|--------|--------|--------|-----------|--------|--------|-------------------|-------|-------|-------|--------|--------|---------------------|--------|
| Model        |              | FVA71               | FVA100 | FVA125 | FVA140 | FDXM35    | FDXM50 | FDXM60 | FHA35             | FHA50 | FHA60 | FHA71 | FHA100 | FHA125 | FHA140              | AVA125 |
| RZAG125N7V1B | RZAG125N7Y1B |                     |        | P      |        |           |        |        |                   |       |       |       |        | P      |                     |        |
| RZAG140N7V1B | RZAG140N7Y1B |                     |        |        | P      |           |        |        |                   |       |       |       |        |        | P                   |        |

P= Pair  
2= Twin  
3= Triple  
4= Double twin

3D120939



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