



Sky Air Alpha-series
Air Conditioning
Technical Data
RZAG-NY1



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RZAG-NY1

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1 Features

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- › Unique, low-height single fan range
- › Compact dimensions allow almost unnoticeable installation
- › Market-leading serviceability and handling, thanks to wide access area, 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

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| Technical Specifications | | | | | RZAG71NY1 | RZAG100NY1 | RZAG125NY1 | RZAG140NY1 |
|-------------------------------|---|--------------------------------------|----------------------|---------------------|-----------|------------|------------|------------|
| 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 | 94 | | | |
| | Packed unit | kg | 92 | 96 | 105 | | | |
| Packing | Weight | kg | 10 | | | | | |
| Heat exchanger | Fin | WF fin | | | | | | |
| | Type Treatment | Anti-corrosion treatment (PE) | | | | | | |
| Fan | Type | Propeller | | | | | | |
| | Discharge direction | Horizontal | | | | | | |
| | Quantity | 1 | | | | | | |
| | Air flow rate | Cooling | Nom. | m ³ /min | 68 | 67 | 80 | 87 |
| Heating | | | Nom. | m ³ /min | 75 | 82 | 80 | 87 |
| Partial | | m ³ /min | - | - | 45 (1) | | | |
| Fan motor | Quantity | 1 | | | | | | |
| | Model | Brushless DC motor | | | | | | |
| | Output | W | 234 | | | | | |
| | Drive | Direct drive | | | | | | |
| Compressor | Quantity | 1 | | | | | | |
| | Type | Hermetically sealed swing compressor | | | | | | |
| Operation range | Cooling | Ambient | Min. | °CDB | -20 | | | |
| | | | Max. | °CDB | 52 | | | |
| | Heating | Ambient | Min. | °CWB | -20 | | | |
| | | | Max. | °CWB | 18 | | | |
| Sound power level | Cooling | | dB | 64 | 66 | 69 | 70 | |
| | Heating | | dB | - | - | 68 (1) | 71 (1) | |
| Sound pressure level | Cooling | Nom. | dB | 46 | 47 | 49 | 50 | |
| | Heating | Nom. | dB | 48 | 50 | 52 | | |
| Refrigerant | Type | R-32 | | | | | | |
| | Charge | kg | 3.20 | | 3.70 | | | |
| | Charge | TCO ₂ Eq | 2.16 | | 2.50 | | | |
| | Control | Expansion valve (electronic type) | | | | | | |
| | GWP | 675 | | | | | | |
| | Circuits | Quantity | 1 | | | | | |
| Refrigerant oil | Type | FW68DA | | | | | | |
| | Charged volume | l | 0.9 | | 1.4 | | | |
| Piping connections | Liquid | Quantity | 1 | | | | | |
| | | Type | Flare connection | | | | | |
| | OD | mm | 9,52 | | | | | |
| Piping connections | Gas | Quantity | 1 | | | | | |
| | | Type | Flare connection | | | | | |
| Drain | OD | | mm | 15.9 | | | | |
| | | Quantity | | 8 | | | | |
| | Type | | | Hole | | | | |
| | | OD | mm | 26 | | | | |
| Piping length | OU - IU | Min. | m | 3 | | | | |
| | | Max. | m | 55 | 85 | | | |
| | System | Equivalent | m | 75 | 100 | | | |
| | | Chargeless | m | 40 | | | | |
| Additional refrigerant charge | kg/m | See installation manual | | | | | | |
| Level difference | IU - OU | Max. | m | 30 | | | | |
| | IU - IU | | m | 0.5 | | | | |
| Heat insulation | Both liquid and gas pipes | | | | | | | |
| Defrost method | Reversed cycle | | | | | | | |
| Defrost control | Sensor for outdoor heat exchanger temperature | | | | | | | |
| Capacity control | Method | Inverter controlled | | | | | | |
| PED | Category | Category II | | | | | | |
| | Most critical part | Name | Accumulator | | | | | |
| | | Ps*V | Bar*l | 136.5 | 143.0 | | | |
| 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;

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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;

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| Electrical Specifications | | | RZAG71NY1 | RZAG100NY1 | RZAG125NY1 | RZAG140NY1 |
|---------------------------|----------------------------|--------|--------------------------------------|------------|------------|------------|
| Power supply | Name | | Y1 | | | |
| | Phase | | 3~ | | | |
| | Frequency | Hz | 50 | | | |
| | Voltage | V | 380-415 | | | |
| | Voltage range | V | 342 457 | | | |
| 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 | | | |
| Current - 50Hz | Maximum fuse amps (MFA) | A | 16 | | | |

(1)According to ENER Lot 21

| Capacity and power input | | | FCAHG71H + RZAG71NY1 | FCAHG100H + RZAG71NY1 | FCAHG100H + RZAG100NY1 | FCAHG140H + RZAG100NY1 | FCAHG125H + RZAG125NY1 | FCAHG140H + RZAG140NY1 |
|---------------------------------|---|---------------------------|----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
| 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 | 7.05 | 7.70 | 7.49 | 8.02 | 7.93 |
| | ηs,c | % | - | | | | 318 | 314 |
| | Annual energy consumption | kWh/a | 301 | 338 | 432 | 444 | 905 | 1,014 |
| Space heating (Average climate) | Energy efficiency class | | A+ | | A++ | | - | |
| | Capacity Pdesign | kW | 4.70 | | 9.52 | 7.80 | 9.52 | |
| | SCOP/A | | 4.56 | 4.20 | 4.75 | 4.70 | 4.53 | 4.44 |
| | SCOPnet/A | | 4.56 | 4.20 | 4.75 | 4.70 | 4.53 | 4.44 |
| | ηs,h | % | - | | | | 178 | 175 |
| | | Annual energy consumption | kWh/a | 1,443 | 1,567 | 2,805 | 2,324 | 2,943 |
| | Required back up heating cap at design conditions | kW | 0.00 | | | | | |
| Space cooling | A | Pdc | 6.80 | | 9.50 | | 12.10 | 13.40 |
| | Condition (35°C - 27/19) | EERd | 4.13 | 4.14 | 4.23 | 4.04 | 3.84 | 3.68 |
| | | Power input | 1.65 | 1.64 | 2.25 | 2.35 | 3.15 | 3.64 |
| | B | Pdc | 5.01 | | 7.00 | | 8.92 | 9.88 |
| | Condition (30°C - 27/19) | EERd | 5.96 | 6.00 | 6.14 | 5.96 | 5.81 | 5.77 |
| | | Power input | 0.84 | | 1.14 | 1.18 | 1.54 | 1.71 |
| | C | Pdc | 3.22 | | 4.50 | | 5.74 | 6.35 |
| | Condition (25°C - 27/19) | EERd | 10.19 | 8.66 | 9.32 | 9.12 | 9.63 | 9.37 |
| | | Power input | 0.32 | 0.37 | 0.48 | 0.49 | 0.60 | 0.68 |
| | D | Pdc | 2.64 | | 3.71 | | 3.61 | |
| | Condition (20°C - 27/19) | EERd | 14.60 | 10.83 | 12.87 | 12.38 | 13.99 | 14.07 |
| | | Power input | 0.18 | 0.25 | 0.29 | | 0.26 | |

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| Capacity and power input | | | | FCAHG71H + RZAG71NY1 | FCAHG100H + RZAG71NY1 | FCAHG100H + RZAG100NY1 | FCAHG140H + RZAG100NY1 | FCAHG125H + RZAG125NY1 | FCAHG140H + RZAG140NY1 | |
|---|---|--|--------------------------|----------------------------|-----------------------------|---------------------------|---------------------------|---------------------------|---------------------------|--|
| Space heating (Average climate) | TOL | Tol (temperature operating limit) °C | | -10 | | | | | | |
| | | Pd _h (declared heating cap) kW | | 4.70 | | 9.52 | 7.80 | 9.52 | | |
| | | COP _d (declared COP) | | 2.91 | 2.94 | 2.79 | 2.95 | 2.22 | 2.23 | |
| | Power input kW | | 1.62 | 1.60 | 3.42 | 2.64 | 4.29 | 4.27 | | |
| | TBivalent | T _{biv} (bivalent temperature) °C | | -10 | | | | | | |
| | | Pd _h (declared heating cap) kW | | 4.70 | | 9.52 | 7.80 | 9.52 | | |
| | | COP _d (declared COP) | | 2.91 | 2.94 | 2.79 | 2.95 | 2.22 | 2.23 | |
| | A | Pd _h (declared heating cap) kW | | 4.16 | | 4.14 | 8.42 | 6.86 | 8.42 | |
| | | COP _d (declared COP) | | 3.28 | 3.30 | 3.14 | 3.26 | 2.84 | 2.80 | |
| | | Power input kW | | 1.27 | 1.25 | 2.69 | 2.10 | 2.97 | 3.01 | |
| | Condition (-7°C) | Pd _h (declared heating cap) kW | | 2.53 | | 2.54 | 5.13 | 4.21 | 5.13 | |
| | | COP _d (declared COP) | | 4.53 | 4.30 | 4.79 | 4.75 | 4.58 | 4.42 | |
| | | Power input kW | | 0.56 | 0.59 | 1.07 | 0.89 | 1.12 | 1.16 | |
| | B | Pd _h (declared heating cap) kW | | 1.79 | | 1.89 | 3.30 | 2.73 | 3.30 | |
| | | COP _d (declared COP) | | 5.43 | 4.73 | 5.81 | 5.59 | 5.79 | 5.78 | |
| | | Power input kW | | 0.33 | 0.40 | 0.57 | 0.49 | 0.57 | | |
| | Condition (7°C) | Pd _h (declared heating cap) kW | | 2.01 | | 2.11 | 2.58 | 2.60 | | |
| | | COP _d (declared COP) | | 6.79 | 5.75 | 6.86 | 6.64 | 6.62 | 6.60 | |
| Power input kW | | | | | | | | | | |
| D | Pd _h (declared heating cap) kW | | | | | | | | | |
| | COP _d (declared COP) | | | | | | | | | |
| | Power input kW | | | | | | | | | |
| Space heating (Average climate) | D Condition (12°C) | Power input kW | | 0.30 | 0.37 | 0.38 | 0.39 | | | |
| | | Power consumption in other than active mode | Crankcase Cooling PCK kW | 0.000 | | | | | | |
| | | | heater Heating PCK kW | 0.000 | | | | | | |
| Off mode | Cooling POFF kW | 0.009 | | | | | | | | |
| | | 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 | | | | | | |
| | | 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 | | | | | | |

(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.

| Capacity and power input | | | | FCAAG71B + RZAG71NY1 | FCAAG100B + RZAG71NY1 | FCAAG100B + RZAG100NY1 | FCAAG140B + RZAG100NY1 | FCAAG125B + RZAG125NY1 | FCAAG140B + RZAG140NY1 |
|------------------------------------|---|------------------------|--|-------------------------|--------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 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 | P _{design} kW | | 6.80 | | 9.50 | | 12.1 | 13.4 |
| | SEER | | | 6.83 | 7.50 | 7.14 | 7.86 | 7.15 | 6.80 |
| | η _{s,c} | % | | | | - | | 283 | 269 |
| | Annual energy consumption | kWh/a | | 348 | 317 | 466 | 423 | 1,016 | 1,182 |
| Space heating (Average climate) | Energy efficiency class | | | A+ | | A++ | | - | |
| | Capacity | P _{design} kW | | 4.70 | | 7.80 | | 9.52 | |
| | SCOP/A | | | 4.22 | 4.45 | 4.53 | 4.66 | 4.34 | |
| | SCOP _{net} /A | | | 4.22 | 4.45 | 4.53 | 4.66 | 4.34 | |
| | η _{s,h} | % | | | | - | | 171 | |
| | Annual energy consumption | kWh/a | | 1,560 | 1,479 | 2,413 | 2,343 | 3,071 | |
| | Required back up heating cap at design conditions | | | | 0.00 | | | | |

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| Capacity and power input | | | | FCAG71B + RZAG71NY1 | FCAG100B + RZAG71NY1 | FCAG100B + RZAG100NY1 | FCAG140B + RZAG100NY1 | FCAG125B + RZAG125NY1 | FCAG140B + RZAG140NY1 |
|---|--------------------------|---|-------|------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Space cooling | A | Pdc | kW | 6.80 | | 9.50 | | 12.10 | 13.40 |
| | | Condition EERd | | 3.54 | 4.14 | 3.59 | 4.13 | 3.32 | 3.12 |
| | | (35°C - 27/19) Power input | kW | 1.92 | 1.64 | 2.65 | 2.30 | 3.65 | 4.29 |
| | B | Pdc | kW | 5.03 | | 7.03 | | 8.92 | 9.88 |
| | | Condition EERd | | 5.43 | 5.65 | 5.83 | 5.76 | 5.65 | 4.47 |
| | | (30°C - 27/19) Power input | kW | 0.93 | 0.89 | 1.21 | 1.22 | 1.58 | 2.21 |
| | C | Pdc | kW | 3.20 | | 4.46 | | 5.74 | 6.35 |
| | | Condition EERd | | 8.32 | 9.57 | 8.18 | 9.72 | 7.87 | 8.17 |
| | | (25°C - 27/19) Power input | kW | 0.38 | 0.33 | 0.55 | 0.46 | 0.73 | 0.78 |
| | D | Pdc | kW | 2.40 | 2.65 | 3.31 | 3.61 | 3.25 | 3.32 |
| Condition EERd | | | 12.31 | 13.42 | 13.03 | 14.70 | 12.77 | 13.55 | |
| (20°C - 27/19) Power input | | kW | 0.20 | | 0.25 | | | | |
| Space heating (Average climate) | TOL | Tol (temperature operating °C limit) | | -10 | | | | | |
| | | Pdh (declared heating cap) kW | | 4.70 | | 7.80 | | 9.52 | |
| | | Condition COPd (declared COP) | | 2.54 | 2.88 | 2.51 | 2.73 | 1.91 | 1.93 |
| | | Power input kW | | 1.85 | 1.63 | 3.11 | 2.85 | 4.98 | 4.93 |
| | TBivalent | Tbiv (bivalent temperature) °C | | -10 | | | | | |
| | | Pdh (declared heating cap) kW | | 4.70 | | 7.80 | | 9.52 | |
| | | Condition COPd (declared COP) | | 2.54 | 2.88 | 2.51 | 2.73 | 1.91 | 1.93 |
| | | Power input kW | | 1.85 | 1.63 | 3.11 | 2.85 | 4.98 | 4.93 |
| | A | Pdh (declared heating cap) kW | | 4.13 | 4.14 | 6.86 | | 8.43 | 8.42 |
| | | Condition COPd (declared COP) | | 2.96 | 3.25 | 2.87 | 3.04 | 2.59 | 2.52 |
| | | (-7°C) Power input kW | | 1.40 | 1.27 | 2.39 | 2.26 | 3.25 | 3.34 |
| | B | Pdh (declared heating cap) kW | | 2.54 | | 4.21 | | 5.12 | |
| | | Condition COPd (declared COP) | | 4.23 | 4.46 | 4.37 | 4.65 | 4.29 | 4.33 |
| | | (2°C) Power input kW | | 0.60 | 0.57 | 0.96 | 0.91 | 1.20 | 1.18 |
| | C | Pdh (declared heating cap) kW | | 1.77 | 1.80 | 2.73 | | 3.29 | |
| | | Condition COPd (declared COP) | | 5.11 | 5.30 | 6.01 | 5.82 | 5.92 | 5.92 |
| | | (7°C) Power input kW | | 0.35 | 0.34 | 0.45 | 0.47 | 0.56 | |
| | D | Pdh (declared heating cap) kW | | 1.96 | 2.02 | 2.47 | 2.51 | 2.52 | |
| | | Condition COPd (declared COP) | | 6.01 | 6.60 | 7.75 | 7.16 | 6.94 | |
| | | (12°C) Power input kW | | 0.33 | 0.31 | 0.32 | 0.35 | 0.36 | |
| Space heating (Average climate) | D Condition (12°C) | Power input kW | | 0.33 | 0.31 | 0.32 | 0.35 | 0.36 | |
| | | Power consumption in other than active mode | | | | | | | |
| | Crankcase heater | Cooling PCK kW | | 0.000 | | | | | |
| | | Heating PCK kW | | 0.000 | | | | | |
| | 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 heating capacity | Heating elbu kW | | 0.0 | | | | | |
| | | Cooling Cdc (Degradation cooling) kW | | 0.25 | | | | | |
| Heating Cdh (Degradation heating) kW | | | | 0.25 | | | | | |
| Cooling function included | | | | Yes | | | | | |
| Heating function included | | | | Yes | | | | | |
| Average climate included | | | | Yes | | | | | |
| Cold season included | | | | No | | | | | |
| Warm season included | | | | No | | | | | |

(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.

| Capacity and power input | | | | FBA71A9 + RZAG71NY1 | FBA100A + RZAG71NY1 | FBA100A + RZAG100NY1 | FBA140A + RZAG100NY1 | FBA125A + RZAG125NY1 | FBA140A + RZAG140NY1 | |
|--------------------------|---------------------------|---------|----------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------|
| 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+ | A++ | | - | | |
| | Capacity | Pdesign | kW | 6.80 | | 9.50 | | 12.1 | 13.4 | |
| | SEER | | | 6.50 | 5.81 | 6.47 | 6.39 | 6.56 | 6.42 | |
| | ηs,c | | % | - | | - | | 259 | 254 | |
| | Annual energy consumption | | | kWh/a | 366 | 410 | 514 | 520 | 1,107 | 1,252 |

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| Capacity and power input | | | | | FBA71A9 + RZAG71NY1 | FBA100A + RZAG71NY1 | FBA100A + RZAG100NY1 | FBA140A + RZAG100NY1 | FBA125A + RZAG125NY1 | FBA140A + RZAG140NY1 | |
|---|---|---|-----------------------------------|---------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|------|
| Space heating (Average climate) | Energy efficiency class | | A+ | | | | | | | | |
| | Capacity | Pdesign | kW | | 4.70 | | 7.80 | | 9.52 | | |
| | SCOP/A | | 4.20 | 4.06 | 4.36 | 4.20 | 4.37 | 4.34 | | | |
| | SCOPnet/A | | 4.20 | 4.06 | 4.36 | 4.20 | 4.37 | 4.34 | | | |
| | ηs,h | % | | | | | | | 172 | 171 | |
| | Annual energy consumption | kWh/a | 1,566 | 1,621 | 2,505 | 2,600 | 3,050 | 3,070 | | | |
| | Required back up heating cap at design conditions | kW | 0.00 | | | | | | | | |
| Space cooling | A | Pdc | kW | | 6.80 | | 9.50 | | 12.10 | 13.40 | |
| | Condition (35°C - 27/19) | EERd | 3.40 | 4.15 | 3.69 | 4.18 | 3.27 | 2.86 | | | |
| | | Power input | 2.00 | 1.64 | 2.58 | 2.27 | 3.70 | 4.69 | | | |
| | B | Pdc | kW | | 5.03 | | 7.03 | | 8.92 | 9.88 | |
| | Condition (30°C - 27/19) | EERd | 5.07 | 4.39 | 4.92 | 4.69 | 4.95 | 4.64 | | | |
| | | Power input | 0.99 | 1.15 | 1.43 | 1.50 | 1.80 | 2.13 | | | |
| | C | Pdc | kW | | 3.20 | | 4.46 | | 5.74 | 6.35 | |
| | Condition (25°C - 27/19) | EERd | 7.94 | 7.06 | 7.80 | 7.62 | 7.45 | 7.47 | | | |
| | | Power input | 0.40 | 0.45 | 0.57 | 0.59 | 0.77 | 0.85 | | | |
| | D | Pdc | kW | | 2.44 | | 3.33 | | 3.34 | 3.50 | |
| | Condition (20°C - 27/19) | EERd | 12.41 | 9.51 | 11.22 | 11.10 | 11.49 | 12.13 | | | |
| | | Power input | 0.20 | 0.28 | 0.30 | 0.33 | 0.29 | | | | |
| | Space heating (Average climate) | TOL | Tol (temperature operating limit) | °C | | -10 | | | | | |
| | | | Pdh (declared heating cap) | kW | | 4.70 | | 7.80 | | 9.52 | |
| | | COPd (declared COP) | 2.50 | 2.69 | 2.46 | 2.52 | 1.97 | 2.01 | | | |
| | | Power input | 1.88 | 1.75 | 3.17 | 3.09 | 4.83 | 4.74 | | | |
| TBivalent | | Tbiv (bivalent temperature) | °C | | -10 | | | | | | |
| | | Pdh (declared heating cap) | kW | | 4.70 | | 7.80 | | 9.52 | | |
| | | COPd (declared COP) | 2.50 | 2.69 | 2.46 | 2.52 | 1.97 | 2.01 | | | |
| | | Power input | 1.88 | 1.75 | 3.17 | 3.09 | 4.83 | 4.74 | | | |
| A | | Pdh (declared heating cap) | kW | | 4.14 | | 6.87 | | 8.42 | 8.43 | |
| Condition (-7°C) | | COPd (declared COP) | 2.92 | 3.04 | 2.82 | 2.80 | 2.67 | 2.58 | | | |
| | | Power input | 1.42 | 1.36 | 2.43 | 2.45 | 3.15 | 3.26 | | | |
| B | | Pdh (declared heating cap) | kW | | 2.54 | | 4.21 | | 5.12 | | |
| Condition (2°C) | | COPd (declared COP) | 4.21 | 4.10 | 4.33 | 4.20 | 4.37 | 4.32 | | | |
| | | Power input | 0.60 | 0.62 | 0.97 | 1.00 | 1.17 | 1.18 | | | |
| C | | Pdh (declared heating cap) | kW | | 1.76 | | 2.73 | | 3.29 | | |
| Condition (7°C) | | COPd (declared COP) | 5.12 | 4.74 | 5.47 | 5.16 | 5.76 | 5.83 | | | |
| | | Power input | 0.34 | 0.39 | 0.50 | 0.53 | 0.57 | | | | |
| D | | Pdh (declared heating cap) | kW | | 1.96 | | 2.51 | | 2.56 | | |
| Condition (12°C) | | COPd (declared COP) | 6.12 | 5.85 | 6.91 | 6.28 | 6.73 | 6.86 | | | |
| Space heating (Average climate) | | D Condition (12°C) | Power input | kW | | 0.32 | 0.35 | 0.36 | 0.41 | 0.38 | 0.37 |
| | | Power consumption in other than active mode | Crankcase heater | Cooling | PCK | kW | 0.000 | | | | |
| | | | Heating | PCK | kW | 0.000 | | | | | |
| 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 | | | | | | |
| 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 | | | |

(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.

| Capacity and power input | | | | | FDA125A + RZAG125NY1 | | | | | |
|--------------------------|------|----|--|--|----------------------|--|--|--|--|--|
| Cooling capacity | Nom. | kW | | | 12.1 (1) | | | | | |

2 Specifications

1 - 1 RZAG-NY1

| Capacity and power input | | | | FDA125A + RZAG125NY1 | | |
|---|---|---|----------------------------|----------------------|-------|-------|
| Heating capacity | Nom. | | kW | 13.5 (2) | | |
| Space cooling | Capacity Pdesign | | kW | 12.1 | | |
| | SEER | | | 6.59 | | |
| | $\eta_{s,c}$ | | % | 261 | | |
| | Annual energy consumption | | kWh/a | 1,102 | | |
| Space heating (Average climate) | Capacity Pdesign | | kW | 9.52 | | |
| | SCOP/A | | | 4.35 | | |
| | SCOPnet/A | | | 4.35 | | |
| | $\eta_{s,h}$ | | % | 171 | | |
| | Annual energy consumption | | kWh/a | 3,064 | | |
| | Required back up heating cap at design conditions | | kW | 0.00 | | |
| Space cooling | A | Pdc | kW | 12.10 | | |
| | Condition | EERd | | 3.25 | | |
| | (35°C - 27/19) | Power input | kW | 3.73 | | |
| | B | Pdc | kW | 8.92 | | |
| | Condition | EERd | | 4.99 | | |
| | (30°C - 27/19) | Power input | kW | 1.79 | | |
| | C | Pdc | kW | 5.73 | | |
| | Condition | EERd | | 7.67 | | |
| | (25°C - 27/19) | Power input | kW | 0.75 | | |
| | D | Pdc | kW | 3.34 | | |
| | Condition | EERd | | 11.04 | | |
| | (20°C - 27/19) | Power input | kW | 0.30 | | |
| Space heating (Average climate) | TOL | Tol (temperature operating limit) | °C | -10 | | |
| | | Pdh (declared heating cap) | kW | 9.52 | | |
| | | COPd (declared COP) | | 1.99 | | |
| | | Power input | kW | 4.78 | | |
| | TBivalent | Tbiv (bivalent temperature) | °C | -10 | | |
| | | Pdh (declared heating cap) | kW | 9.52 | | |
| | | COPd (declared COP) | | 1.99 | | |
| | | Power input | kW | 4.78 | | |
| | A | Pdh (declared heating cap) | kW | 8.42 | | |
| | | Condition | COPd (declared COP) | | 2.69 | |
| | | (-7°C) | Power input | kW | 3.13 | |
| | B | Pdh (declared heating cap) | kW | 5.12 | | |
| | | Condition | COPd (declared COP) | | 4.33 | |
| | (2°C) | Power input | kW | 1.18 | | |
| | | C | Pdh (declared heating cap) | kW | 3.29 | |
| | Condition | | COPd (declared COP) | | 5.73 | |
| | (7°C) | Power input | kW | 0.58 | | |
| | | D | Pdh (declared heating cap) | kW | 2.58 | |
| | Condition | | COPd (declared COP) | | 6.68 | |
| | (12°C) | Power input | kW | 0.39 | | |
| | | Power consumption in other than active mode | Crankcase heater mode | Cooling PCK | kW | 0.000 |
| | Power consumption in other than active mode | Crankcase heater mode | Heating | PCK | kW | 0.000 |
| | | | Cooling | POFF | kW | 0.012 |
| | | Off mode | Heating | POFF | kW | 0.012 |
| Cooling | | | PSB | kW | 0.012 | |
| Standby mode | | Heating | PSB | kW | 0.012 | |
| | | Cooling | PTO | kW | 0.005 | |
| Thermostat-off mode | | 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 | | |
| 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 | | |

(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

1 - 1 RZAG-NY1

| Capacity and power input | | | | | FAA71A + RZAG71NY1 | FAA100A + RZAG71NY1 | FAA100A + RZAG100NY1 |
|---|---|-----------------------------------|-------|----|--------------------|---------------------|----------------------|
| 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 | 6.43 | 6.42 |
| | Annual energy consumption | | kWh/a | | 362 | 370 | 518 |
| Space heating (Average climate) | Energy efficiency class | | | | A+ | | |
| | Capacity | Pdesign | kW | | 4.70 | | 7.80 |
| | SCOP/A | | | | 4.20 | 4.10 | 4.01 |
| | SCOPnet/A | | | | 4.20 | 4.10 | 4.01 |
| | Annual energy consumption | | kWh/a | | 1,567 | 1,605 | 2,723 |
| | Required back up heating cap at design conditions | | kW | | 0.00 | | |
| Space cooling | A | Pdc | kW | | 6.80 | | 9.50 |
| | Condition | EERd | | | 3.27 | 3.77 | 3.74 |
| | (35°C - 27/19) | Power input | kW | | 2.08 | 1.80 | 2.54 |
| | B | Pdc | kW | | 5.03 | | 7.03 |
| | Condition | EERd | | | 4.54 | 4.85 | 4.76 |
| | (30°C - 27/19) | Power input | kW | | 1.11 | 1.04 | 1.48 |
| | C | Pdc | kW | | 3.22 | 3.20 | 4.46 |
| | Condition | EERd | | | 9.30 | 8.05 | 7.70 |
| | (25°C - 27/19) | Power input | kW | | 0.35 | 0.40 | 0.58 |
| | D | Pdc | kW | | 2.40 | 2.48 | 3.43 |
| | Condition | EERd | | | 11.11 | 10.79 | 11.08 |
| | (20°C - 27/19) | Power input | kW | | 0.22 | 0.23 | 0.31 |
| Space heating (Average climate) | TOL | Tol (temperature operating limit) | °C | | -10 | | |
| | | Pdh (declared heating cap) | kW | | 4.70 | | 7.80 |
| | | COPd (declared COP) | | | 2.51 | 2.74 | 2.19 |
| | | Power input | kW | | 1.88 | 1.71 | 3.57 |
| | TBivalent | Tbiv (bivalent temperature) | °C | | -10 | | |
| | | Pdh (declared heating cap) | kW | | 4.70 | | 7.80 |
| | | COPd (declared COP) | | | 2.51 | 2.74 | 2.19 |
| | | Power input | kW | | 1.88 | 1.71 | 3.57 |
| | A | Pdh (declared heating cap) | kW | | 4.14 | | 6.86 |
| | Condition | COPd (declared COP) | | | 2.91 | 3.07 | 2.53 |
| | (-7°C) | Power input | kW | | 1.42 | 1.35 | 2.71 |
| | B | Pdh (declared heating cap) | kW | | 2.54 | | 4.21 |
| | Condition | COPd (declared COP) | | | 4.20 | 4.11 | 3.94 |
| | (2°C) | Power input | kW | | 0.60 | 0.62 | 1.07 |
| | C | Pdh (declared heating cap) | kW | | 1.76 | 1.79 | 2.73 |
| | Condition | COPd (declared COP) | | | 5.14 | 4.81 | 5.19 |
| | (7°C) | Power input | kW | | 0.34 | 0.37 | 0.53 |
| | D | Pdh (declared heating cap) | kW | | 1.96 | 2.02 | 2.47 |
| | Condition | COPd (declared COP) | | | 6.09 | 5.94 | 6.61 |
| | (12°C) | Power input | kW | | 0.32 | 0.34 | 0.37 |
| Power consumption in other than active mode | Crankcase heater mode | Cooling | PCK | kW | 0.000 | | |
| Power consumption in other than active mode | Crankcase heater mode | Heating | PCK | kW | 0.000 | | |
| | 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 | | |
| 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 | | |

(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

1 - 1 RZAG-NY1

| Capacity and power input | | | | FHA71A9 + RZAG71NY1 | FHA100A + RZAG71NY1 | FHA100A + RZAG100NY1 | FHA140A + RZAG100NY1 | FHA125A + RZAG125NY1 | FHA140A + RZAG140NY1 |
|---|---|-----------------|--|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 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 | 6.69 | 6.42 | 7.35 | 7.14 | 6.42 |
| | ηs,c | % | | - | | | | | |
| | Annual energy consumption | kWh/a | | 335 | 356 | 518 | 453 | 1,017 | 1,253 |
| Space heating (Average climate) | Energy efficiency class | | | A+ | | | | | |
| | Capacity Pdesign | kW | | 4.70 | | 7.80 | | 9.52 | |
| | SCOP/A | | | 4.32 | 4.26 | 4.61 | 4.50 | 4.20 | 4.30 |
| | SCOPnet/A | | | 4.32 | 4.26 | 4.61 | 4.50 | 4.20 | 4.30 |
| | ηs,h | % | | - | | | | | |
| | Annual energy consumption | kWh/a | | 1,523 | 1,545 | 2,369 | 2,429 | 3,174 | 3,100 |
| | Required back up heating cap at design conditions | kW | | 0.00 | | | | | |
| Space cooling | A Pdc | kW | | 6.80 | | 9.50 | | 12.10 | 13.40 |
| | Condition EERd | | | 3.75 | 4.02 | 4.10 | 4.05 | 3.40 | 3.11 |
| | (35°C - 27/19) Power input | kW | | 1.81 | 1.69 | 2.31 | 2.34 | 3.56 | 4.31 |
| | B Pdc | kW | | 5.03 | | 7.03 | | 8.92 | 9.87 |
| | Condition EERd | | | 5.46 | 5.34 | 4.92 | 6.03 | 5.55 | 4.94 |
| | (30°C - 27/19) Power input | kW | | 0.92 | 0.94 | 1.43 | 1.17 | 1.61 | 2.00 |
| | C Pdc | kW | | 3.20 | | 4.47 | | 5.73 | 6.35 |
| | Condition EERd | | | 8.99 | 8.27 | 7.62 | 8.88 | 8.20 | 7.48 |
| | (25°C - 27/19) Power input | kW | | 0.36 | 0.39 | 0.59 | 0.50 | 0.70 | 0.85 |
| | D Pdc | kW | | 2.48 | 2.62 | 3.54 | 3.61 | 3.36 | 3.35 |
| | Condition EERd | | | 12.58 | 10.71 | 10.27 | 11.63 | 12.00 | 10.13 |
| | (20°C - 27/19) Power input | kW | | 0.20 | 0.24 | 0.34 | 0.31 | 0.28 | 0.33 |
| Space heating (Average climate) | TOL Tol (temperature operating limit) | °C | | -10 | | | | | |
| | Pdh (declared heating cap) | kW | | 4.70 | | 7.80 | | 9.52 | |
| | COPd (declared COP) | | | 2.43 | 2.90 | 2.65 | 2.85 | 1.87 | 2.13 |
| | Power input | kW | | 1.93 | 1.62 | 2.94 | 2.73 | 5.10 | 4.47 |
| | TBivalent Tbhv (bivalent temperature) | °C | | -10 | | | | | |
| | Pdh (declared heating cap) | kW | | 4.70 | | 7.80 | | 9.52 | |
| | COPd (declared COP) | | | 2.43 | 2.90 | 2.65 | 2.85 | 1.87 | 2.13 |
| | Power input | kW | | 1.93 | 1.62 | 2.94 | 2.73 | 5.10 | 4.47 |
| | A Pdh (declared heating cap) | kW | | 4.14 | | 6.86 | | 8.42 | |
| | Condition COPd (declared COP) | | | 2.95 | 3.26 | 3.03 | 3.15 | 2.55 | 2.70 |
| | (-7°C) Power input | kW | | 1.40 | 1.27 | 2.27 | 2.18 | 3.30 | 3.11 |
| | B Pdh (declared heating cap) | kW | | 2.54 | | 4.21 | | 5.12 | |
| | Condition COPd (declared COP) | | | 4.44 | 4.32 | 4.61 | 4.57 | 4.26 | 4.33 |
| | (2°C) Power input | kW | | 0.57 | 0.59 | 0.91 | 0.92 | 1.20 | 1.18 |
| | C Pdh (declared heating cap) | kW | | 1.79 | | 2.73 | | 3.29 | |
| | Condition COPd (declared COP) | | | 5.15 | 4.90 | 5.70 | 5.30 | 5.49 | 5.54 |
| | (7°C) Power input | kW | | 0.35 | 0.38 | 0.48 | 0.52 | 0.60 | 0.59 |
| | D Pdh (declared heating cap) | kW | | 1.97 | 2.07 | 2.54 | 2.60 | 2.55 | 2.64 |
| | Condition COPd (declared COP) | | | 5.99 | 6.00 | 7.06 | 6.21 | 6.13 | 6.25 |
| | (12°C) Power input | kW | | 0.33 | 0.34 | 0.36 | | 0.42 | |
| Space heating (Average climate) | D Condition (12°C) Power input | kW | | 0.33 | 0.34 | 0.36 | | 0.42 | |
| Power consumption in other than active mode | Crankcase heater | Cooling PCK kW | | 0.000 | | | | | |
| | | Heating PCK kW | | 0.000 | | | | | |
| | 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 | | | | | |
| 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

1 - 1 RZAG-NY1

| Capacity and power input | FHA71A9 + RZAG71NY1 | FHA100A + RZAG71NY1 | FHA100A + RZAG100NY1 | FHA140A + RZAG100NY1 | FHA125A + RZAG125NY1 | FHA140A + RZAG140NY1 |
|--------------------------|---------------------|---------------------|----------------------|----------------------|----------------------|----------------------|
| Cold season included | No | | | | | |
| Warm season included | No | | | | | |

(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.

| Capacity and power input | FUA71A + RZAG71NY1 | FUA100A + RZAG71NY1 | FUA100A + RZAG100NY1 | FUA125A + RZAG125NY1 |
|---|--------------------|---------------------|----------------------|----------------------|
| 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 | 6.89 | 6.42 | 6.39 |
| ηs,c % | - | | | 253 |
| Annual energy consumption kWh/a | 339 | 345 | 518 | 1,136 |
| Space heating (Average climate) Energy efficiency class | A+ | | | - |
| Capacity Pdesign kW | 4.70 | | 7.80 | 9.52 |
| SCOP/A | 4.20 | 4.28 | 4.50 | 4.26 |
| SCOPnet/A | 4.20 | 4.28 | 4.50 | 4.26 |
| ηs,h % | - | | | 167 |
| Annual energy consumption kWh/a | 1,567 | 1,538 | 2,427 | 3,129 |
| Required back up heating cap at design conditions kW | 0.00 | | | |
| Space cooling A Pdc kW | 6.80 | | 9.50 | 12.10 |
| Condition EERd | 3.83 | 4.02 | 3.57 | 3.02 |
| (35°C - 27/19) Power input kW | 1.77 | 1.69 | 2.66 | 4.00 |
| B Pdc kW | 5.03 | | 7.03 | 8.91 |
| Condition EERd | 5.34 | 5.65 | 4.93 | 5.08 |
| (30°C - 27/19) Power input kW | 0.94 | 0.89 | 1.43 | 1.76 |
| C Pdc kW | 3.20 | 3.19 | 4.46 | 5.74 |
| Condition EERd | 8.83 | 8.54 | 7.75 | 7.22 |
| (25°C - 27/19) Power input kW | 0.36 | 0.37 | 0.58 | 0.79 |
| D Pdc kW | 2.59 | 2.64 | 3.36 | 3.23 |
| Condition EERd | 12.48 | 10.88 | 10.65 | 10.56 |
| (20°C - 27/19) Power input kW | 0.21 | 0.24 | 0.32 | 0.31 |
| Space heating (Average climate) TOL Tol (temperature operating °C limit) | -10 | | | |
| Pdh (declared heating cap) kW | 4.70 | | 7.80 | 9.52 |
| COPd (declared COP) | 2.58 | 2.95 | 2.62 | 1.97 |
| Power input kW | 1.82 | 1.59 | 2.97 | 4.83 |
| TBivalent Tbiv (bivalent temperature) °C | -10 | | | |
| Pdh (declared heating cap) kW | 4.70 | | 7.80 | 9.52 |
| COPd (declared COP) | 2.58 | 2.95 | 2.62 | 1.97 |
| Power input kW | 1.82 | 1.59 | 2.97 | 4.83 |
| A Pdh (declared heating cap) kW | 4.14 | | 6.86 | 8.43 |
| Condition COPd (declared COP) | 2.99 | 3.31 | 3.00 | 2.66 |
| (-7°C) Power input kW | 1.38 | 1.25 | 2.29 | 3.17 |
| B Pdh (declared heating cap) kW | 2.54 | | 4.21 | 5.12 |
| Condition COPd (declared COP) | 4.27 | 4.36 | 4.53 | 4.31 |
| (2°C) Power input kW | 0.60 | 0.58 | 0.93 | 1.19 |
| C Pdh (declared heating cap) kW | 1.80 | 1.86 | 2.73 | 3.29 |
| Condition COPd (declared COP) | 5.03 | 4.87 | 5.47 | |
| (7°C) Power input kW | 0.36 | 0.38 | 0.50 | 0.60 |
| D Pdh (declared heating cap) kW | 2.00 | 2.09 | 2.55 | 2.58 |
| Condition COPd (declared COP) | 6.00 | 5.94 | 6.76 | 6.18 |
| Space heating (Average climate) D Condition (12°C) Power input kW | 0.33 | 0.35 | 0.38 | 0.42 |
| Power consumption in other than active mode Crankcase heater Cooling PCK kW | 0.000 | | | |
| heater Heating PCK kW | 0.000 | | | |
| Off mode Cooling POFF kW | 0.009 | | | |
| heater Heating POFF kW | 0.009 | | | |
| Standby mode Cooling PSB kW | 0.009 | | | |
| heater Heating PSB kW | 0.009 | | | |
| Thermostat-off mode Cooling PTO kW | 0.005 | | | |
| heater Heating PTO kW | 0.013 | | | |
| Indication if the heater is equipped with a supplementary heater (pair application) | No | | | |

2 Specifications

1 - 1 RZAG-NY1

2

| Capacity and power input | | FUA71A + RZAG71NY1 | FUA100A + RZAG71NY1 | FUA100A + RZAG100NY1 | FUA125A + RZAG125NY1 |
|---|-------------------------------|-----------------------|------------------------|-------------------------|-------------------------|
| Supplementary heater (pair application) | Back-up Heating elbu capacity | kW | | | 0.0 |
| 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 |

(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.

| Capacity and power input | | FVA71A + RZAG71NY1 | FVA100A + RZAG71NY1 | FVA100A + RZAG100NY1 | FVA140A + RZAG100NY1 | FVA125A + RZAG125NY1 | FVA140A + RZAG140NY1 |
|---------------------------------|---|--------------------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| 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 | 6.34 | 6.41 | 6.40 | 6.43 | 6.41 | 6.12 |
| | ηs,c | % | | - | | 253 | |
| | Annual energy consumption | 376 | 371 | 520 | 517 | 1,133 | 1,314 |
| Space heating (Average climate) | Energy efficiency class | | | A+ | | | |
| | Capacity Pdesign | kW | | 4.70 | | 7.80 | |
| | SCOP/A | 4.05 | 4.03 | 4.20 | 4.05 | 4.15 | 3.94 |
| | SCOPnet/A | 4.05 | 4.03 | 4.20 | 4.05 | 4.15 | 3.94 |
| | ηs,h | % | | - | | 163 | |
| | Annual energy consumption | 1,625 | 1,634 | 2,600 | 2,697 | 3,209 | 3,383 |
| | Required back up heating cap at design conditions | kW | | 0.00 | | | |
| Space cooling | A Pdc | kW | | 6.80 | | 9.50 | |
| | Condition EERd | 3.27 | 3.95 | 3.57 | 3.93 | 3.21 | 3.03 |
| | (35°C - 27/19) Power input | 2.08 | 1.72 | 2.66 | 2.42 | 3.77 | 4.42 |
| | B Pdc | kW | | 5.03 | | 7.03 | |
| | Condition EERd | 5.15 | 5.40 | 5.21 | 5.13 | 5.23 | 4.89 |
| | (30°C - 27/19) Power input | 0.98 | 0.93 | 1.35 | 1.37 | 1.70 | 2.02 |
| | C Pdc | kW | | 3.20 | | 4.46 | |
| | Condition EERd | 7.53 | 7.81 | 7.67 | 7.63 | 7.07 | 6.90 |
| | (25°C - 27/19) Power input | 0.42 | 0.41 | 0.58 | 0.59 | 0.81 | 0.92 |
| | D Pdc | kW | | 2.33 | | 2.61 | |
| | Condition EERd | 11.27 | 9.56 | 9.85 | 10.01 | 10.28 | 9.46 |
| | (20°C - 27/19) Power input | 0.21 | 0.27 | 0.33 | 0.35 | 0.31 | 0.34 |
| Space heating (Average climate) | TOL | Tol (temperature operating limit) °C | | -10 | | | |
| | Pdh (declared heating cap) | kW | | 4.70 | | 7.80 | |
| | COPd (declared COP) | 2.42 | 2.85 | 2.45 | 2.57 | 1.86 | |
| | Power input | 1.94 | 1.65 | 3.19 | 3.04 | 5.11 | |
| | TBivalent | Tbiv (bivalent temperature) °C | | -10 | | | |
| | Pdh (declared heating cap) | kW | | 4.70 | | 7.80 | |
| | COPd (declared COP) | 2.42 | 2.85 | 2.45 | 2.57 | 1.86 | |
| | Power input | 1.94 | 1.65 | 3.19 | 3.04 | 5.11 | |
| | A Pdh (declared heating cap) | kW | | 4.14 | | 6.86 | |
| | Condition COPd (declared COP) | 2.83 | 3.18 | 2.82 | 2.84 | 2.55 | 2.42 |
| | (-7°C) Power input | 1.46 | 1.30 | 2.43 | 2.42 | 3.30 | 3.48 |
| | B Pdh (declared heating cap) | kW | | 2.54 | | 4.21 | |
| | Condition COPd (declared COP) | 4.07 | 4.11 | 4.21 | 4.11 | 4.20 | 3.99 |
| | (2°C) Power input | 0.62 | | 1.00 | 1.02 | 1.22 | 1.28 |
| | C Pdh (declared heating cap) | kW | | 1.76 | | 1.88 | |
| | Condition COPd (declared COP) | 4.92 | 4.54 | 5.13 | 4.77 | 5.42 | 5.12 |
| | (7°C) Power input | 0.36 | 0.41 | 0.53 | 0.57 | 0.61 | 0.64 |
| | D Pdh (declared heating cap) | kW | | 1.96 | | 2.10 | |
| | Condition COPd (declared COP) | 5.77 | 5.48 | 6.22 | 5.58 | 6.00 | 5.67 |
| Space heating (Average climate) | D Condition (12°C) Power input | 0.34 | 0.38 | 0.41 | 0.47 | 0.43 | 0.46 |

2 Specifications

1 - 1 RZAG-NY1

| Capacity and power input | | | | | FVA71A + RZAG71NY1 | FVA100A + RZAG71NY1 | FVA100A + RZAG100NY1 | FVA140A + RZAG100NY1 | FVA125A + RZAG125NY1 | FVA140A + RZAG140NY1 | |
|---|---|------------------|---------|------|-----------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------|
| Power consumption in other than active mode | Crankcase heater | Cooling | PCK | kW | | | | | | 0.000 | |
| | | Heating | PCK | kW | | | | | | 0.000 | |
| | 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 |
| 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 | |

(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.

3 Electrical data

3 - 1 Electrical Data

3

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

1. 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
2. ·TOCA· is the total value of each overcurrent set.
3. 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.
4. The maximum allowable voltage that is unbalanced between phases is ·2·%.
5. ·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.
6. Select the wire size according to the MCA.
7. ·MFA· is used to select the circuit breaker and the ground fault circuit interruptor.
 - Earth leakage circuit breaker

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RZAG-NY1

| Indoor | Outdoor | Power supply | Voltage range | Compressor | | | OFM | | IFM | | | | | |
|--------------|-----------------|----------------------|--------------------------------------|--------------------------------------|------|-----|------|-------|-------|----------|----------|----------|--------|---|
| | | | | MCA | TOCA | MFA | MSC | RLA | KW | FLA | KW | FLA | | |
| FCAHG71HVEB | x2 RZAG125N7Y1B | 3N~ 50Hz 380-415V | Minimum: ·342· V Maximum: ·457· V | 15.0 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.091 x2 | 0.7 x2 | | |
| FCAHG140HVEB | RZAG125N7Y1B | | | 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 | — | |
| FCAG71BVEB | x2 RZAG125N7Y1B | | | 14.4 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.054 x2 | 0.4 x2 | — | |
| FCAG140BVEB | RZAG125N7Y1B | | | 14.9 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.168 | 1.3 | — | |
| 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 | — | |
| 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 | — | |
| FBA71A2VEB | x2 RZAG125N7Y1B | | | (13.5)* | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.070 x2 | 1.3 x2 | — | |
| FBA140A2VEB | RZAG125N7Y1B | | | (13.5)* | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.187 | 3.9 | — | |
| FUA71A1VEB | x2 RZAG125N7Y1B | | | 15.4 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.046 x2 | 0.9 x2 | — | |
| FAA71A1UVEB | x2 RZAG125N7Y1B | | | 14.6 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.048 x2 | 0.5 x2 | — | |
| FVA140AMVEB | RZAG125N7Y1B | | 15.4 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.276 | 1.8 | — | | |
| 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 | — | | |
| 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 | — | | |
| FHA71AVEB | x2 RZAG125N7Y1B | | 15.2 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.091 x2 | 0.8 x2 | — | | |
| FHA140AVEB | RZAG125N7Y1B | | 15.4 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.150 | 1.8 | — | | |
| FCAHG71HVEB | x2 RZAG140N7Y1B | | 3N~ 50Hz 380-415V | Minimum: ·342· V 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 | — | |
| FUA71A1VEB | x2 RZAG140N7Y1B | 15.4 | | | — | 16 | — | 11.6 | 0.234 | 1.4 | 0.046 x2 | 0.9 x2 | — | |
| FAA71A1UVEB | x2 RZAG140N7Y1B | 14.6 | | | — | 16 | — | 11.6 | 0.234 | 1.4 | 0.048 x2 | 0.5 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.

3D120944A

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

1. 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
2. ·TOCA· is the total value of each overcurrent set.
3. 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.
4. The maximum allowable voltage that is unbalanced between phases is ·2·%.
5. ·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.
6. Select the wire size according to the MCA.
7. ·MFA· is used to select the circuit breaker and the ground fault circuit interruptor.
 - Earth leakage circuit breaker

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RZAG-NY1

| Indoor | Outdoor | Power supply | Voltage range | Compressor | | | | | OFM | | IFM | |
|-------------|-----------------|----------------------|--------------------------------------|------------|------|------|-------|-------|----------|----------|----------|--------|
| | | | | MCA | TOCA | MFA | MSC | RLA | kW | FLA | kW | FLA |
| FCAG12SHVEB | RZAG12SN7Y1B | 3N~ 50Hz 380-415V | Minimum: ·342· V Maximum: ·457· V | 15.0 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.244 | 1.4 |
| FCAG35BVEB | x4 RZAG12SN7Y1B | | | 12.2 | — | 16 | — | 9.3 | 0.234 | 1.2 | 0.044 x4 | 0.3 x4 |
| FCAG50BVEB | x3 RZAG12SN7Y1B | | | 12.9 | — | 16 | — | 10.3 | 0.234 | 1.2 | 0.039 x3 | 0.3 x3 |
| FCAG60BVEB | x2 RZAG12SN7Y1B | | | 14.1 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.044 x2 | 0.3 x2 |
| FCAG125BVEB | RZAG12SN7Y1B | | | 14.6 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.168 | 1.0 |
| FFA35A2VEB | x4 RZAG12SN7Y1B | | | 11.8 | — | 16 | — | 9.3 | 0.234 | 1.2 | 0.050 x4 | 0.2 x4 |
| FFA50A2VEB | x3 RZAG12SN7Y1B | | | 13.2 | — | 16 | — | 10.3 | 0.234 | 1.2 | 0.050 x3 | 0.4 x3 |
| FFA60A2VEB | x2 RZAG12SN7Y1B | | | 14.8 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.050 x2 | 0.6 x2 |
| FBA35A2VEB | x4 RZAG12SN7Y1B | | | (10.9)* | — | 16 | — | 9.3 | 0.234 | 1.2 | 0.089 x4 | 1.4 x4 |
| FBA50A2VEB | x3 RZAG12SN7Y1B | | | (12.0)* | — | 16 | — | 10.3 | 0.234 | 1.2 | 0.089 x3 | 1.4 x3 |
| FBA60A2VEB | x2 RZAG12SN7Y1B | | | (13.5)* | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.070 x2 | 1.3 x2 |
| FBA125A2VEB | RZAG12SN7Y1B | | | (13.5)* | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.187 | 3.9 |
| FMA35A2VEB | x4 RZAG12SN7Y1B | | | 13.0 | — | 16 | — | 9.3 | 0.234 | 1.2 | 0.034 x4 | 0.5 x4 |
| FMA50A2VEB | x3 RZAG12SN7Y1B | | | 13.5 | — | 16 | — | 10.3 | 0.234 | 1.2 | 0.060 x3 | 0.5 x3 |
| FMA60A2VEB | x2 RZAG12SN7Y1B | | 14.8 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.060 x2 | 0.6 x2 | |
| FUA125AVEB | RZAG12SN7Y1B | | 15.0 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.106 | 1.4 | |
| FDA125AVEB | RZAG12SN7Y1B | | 15.7 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.350 | 2.1 | |
| FVA125AMVEB | RZAG12SN7Y1B | | 15.1 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.238 | 1.5 | |
| FDXMS3F3V1B | x4 RZAG12SN7Y1B | | 12.2 | — | 16 | — | 9.3 | 0.234 | 1.2 | 0.034 x4 | 0.3 x4 | |
| FDXMS0F3V1B | x3 RZAG12SN7Y1B | | 14.8 | — | 16 | — | 10.3 | 0.234 | 1.2 | 0.060 x3 | 0.9 x3 | |
| FDXMS6F3V1B | x2 RZAG12SN7Y1B | | 15.4 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.060 x2 | 0.9 x2 | |
| FHA35AVEB | x4 RZAG12SN7Y1B | | 13.4 | — | 16 | — | 9.3 | 0.234 | 1.2 | 0.060 x4 | 0.6 x4 | |
| FHA50AVEB | x3 RZAG12SN7Y1B | | 13.8 | — | 16 | — | 10.3 | 0.234 | 1.2 | 0.060 x3 | 0.6 x3 | |
| FHA60AVEB | x2 RZAG12SN7Y1B | | 14.8 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.091 x2 | 0.6 x2 | |
| FHA125AVEB | RZAG12SN7Y1B | | 15.1 | — | 16 | — | 11.8 | 0.234 | 1.2 | 0.150 | 1.5 | |
| FCAG71HVEB | RZAG140N7Y1B | | 15.0 | — | 16 | — | 11.6 | 0.234 | 1.4 | 0.091 x2 | 0.7 x2 | |
| FCAG140HVEB | 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 | 12.2 | — | 16 | — | 10.1 | 0.234 | 1.4 | 0.060 x3 | 0.5 x3 | | |
| FFA60A2VEB | x2 RZAG140N7Y1B | (10.9)* | — | 16 | — | 9.1 | 0.234 | 1.4 | 0.089 x4 | 1.4 x4 | | |
| FBA35A2VEB | x4 RZAG140N7Y1B | (10.9)* | — | 16 | — | 10.1 | 0.234 | 1.4 | 0.089 x3 | 1.4 x3 | | |
| FBA50A2VEB | x3 RZAG140N7Y1B | (12.0)* | — | 16 | — | 11.6 | 0.234 | 1.4 | 0.070 x2 | 1.3 x2 | | |
| FBA71A2VEB | x2 RZAG140N7Y1B | (13.5)* | — | 16 | — | 11.6 | 0.234 | 1.4 | 0.187 | 3.9 | | |
| FBA140A2VEB | RZAG140N7Y1B | (13.5)* | — | 16 | — | 11.6 | 0.234 | 1.4 | 0.034 x4 | 0.5 x4 | | |
| FMA35A2VEB | x4 RZAG140N7Y1B | 13.0 | — | 16 | — | 9.1 | 0.234 | 1.4 | 0.060 x3 | 0.5 x3 | | |
| FMA50A2VEB | x3 RZAG140N7Y1B | 13.5 | — | 16 | — | 10.1 | 0.234 | 1.4 | 0.046 x2 | 0.9 x2 | | |
| FUA71AVEB | 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 | | |
| FDXMS3F3V1B | x4 RZAG140N7Y1B | 12.2 | — | 16 | — | 9.1 | 0.234 | 1.4 | 0.034 x4 | 0.3 x4 | | |
| FDXMS0F3V1B | 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

3 Electrical data

3 - 1 Electrical Data

RZAG-NY1

| Indoor | Outdoor | Power supply | Voltage range | MCA | TOCA | MFA | Compressor | | OFM | | IFM | | | |
|--------------|-----------------|----------------------|-------------------------------------|----------------------|-------------------------------------|------|------------|------|-------|------|----------|--------|----------|--------|
| | | | | | | | MSC | RLA | kW | FLA | kW | FLA | | |
| FCAHG100HVEB | RZAG71N7Y1B | 3N~ 50Hz 380-415V | Minimum: -342 V. Maximum -457 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 | 0,150 | 1,3 | | |
| FCAHG71HVEB | RZAG100N7Y1B | | | 3N~ 50Hz 380-415V | Minimum: -342 V. Maximum -457 V. | 13,5 | — | 16 | — | 10,4 | 0,234 | 1,2 | 0,091 x2 | 0,7 x2 |
| FCAG140HVEB | 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 | 0,070 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 | 1,2 | 0,034 x4 | 0,3 x4 | | |
| FDXM50F3V1B | x3 RZAG100N7Y1B | 14,9 | — | | | 16 | — | 10,4 | 0,234 | 1,2 | 0,060 x3 | 0,9 x3 | | |
| FHA35AVEB | x4 RZAG100N7Y1B | 14,6 | — | | | 16 | — | 10,4 | 0,234 | 1,2 | 0,060 x4 | 0,6 x4 | | |
| FHA50AVEB | x3 RZAG100N7Y1B | 13,9 | — | | | 16 | — | 10,4 | 0,234 | 1,2 | 0,060 x3 | 0,6 x3 | | |
| FHA71AVEB | x2 RZAG100N7Y1B | 13,7 | — | | | 16 | — | 10,4 | 0,234 | 1,2 | 0,091 x2 | 0,8 x2 | | |
| FHA140AVEB | RZAG100N7Y1B | 15,4 | — | 16 | — | 11,8 | 0,234 | 1,2 | 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.

3D120944A

RZAG-NY1

| Indoor | Outdoor | Power supply | Voltage range | MCA | TOCA | MFA | Compressor | | OFM | | IFM | | | |
|--------------|-----------------|----------------------|-------------------------------------|----------------------|-------------------------------------|---------|------------|------|-------|------|----------|--------|----------|--------|
| | | | | | | | MSC | RLA | kW | FLA | kW | FLA | | |
| FCAHG71HVEB | RZAG71N7Y1B | 3N~ 50Hz 380-415V | Minimum: -342 V. 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 x2 | 1,3 x2 | | |
| 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 | | |
| FAA71AUVEB | 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 380-415V | Minimum: -342 V. 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 | | |
| FAA100AUVEB | 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

4 Options

4 - 1 Options

RZAG-NV1
RZAG-NY1

| | | EKBP140N | EKMKA2 | KHRQ58H | KHRQ58T | KHRQ58H | KHRQ58T | 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 (EKMKA2) needs to be used (obligatory). This will be offered as sales bom
SB.KRP58M52 = KRP58M51 + EKMKA2
2. For twin combinations use 1 KHRQ(M)58T, for double twin use 3.
3. For triple combinations use 1 KHRQ(M)58H.

3D120932

5 Combination table

5 - 1 Combination Table

5

RZAG-NV1 RZAG-NY1

Comfort cooling combination table

| | High COP round flow cassette | | | | Round flow cassette | | | | | | Fully flat cassette | | | Slim concealed ceiling unit | | | Concealed ceiling unit with medium ESP | | | | | | | |
|------------------------------|------------------------------|--------------|--------------|--------------|---------------------|------------|------------|------------|-------------|-------------|---------------------|-------------|-------------|-----------------------------|--------------|--------------|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| | FCAHG71HVEB | FCAHG100HVEB | FCAHG125HVEB | FCAHG140HVEB | FCAG35BVEB | FCAG50BVEB | FCAG60BVEB | FCAG71BVEB | FCAG100BVEB | FCAG125BVEB | FCAG140BVEB | FFA35A2VEB9 | FFA50A2VEB9 | FFA60A2VEB9 | FDXM35F3V1B9 | FDXM50F3V1B9 | FDXM60F3V1B9 | FBA35A2VEB9 | FBA50A2VEB9 | FBA60A2VEB9 | FBA71A2VEB9 | FBA100A2VEB | FBA125A2VEB | FBA140A2VEB |
| RZAG71N7V1B RZAG71N7Y1B | P | | | | 2 | | | P | | | | 2 | | | 2 | | | 2 | | | P | | | |
| RZAG100N7V1B RZAG100N7Y1B | | P | | | 3 | 2 | | | P | | | 3 | 2 | | 3 | 2 | | 3 | 2 | | | | P | |
| RZAG125N7V1B RZAG125N7Y1B | | | P | | 4 | 3 | 2 | | | P | | 4 | 3 | 2 | 4 | 3 | 2 | 4 | 3 | 2 | | | | P |
| RZAG140N7V1B RZAG140N7Y1B | 2 | | | P | 4 | 3 | | 2 | | | P | 4 | 3 | | 4 | 3 | | 4 | 3 | | 2 | | | P |

| | 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 | | | | | | |
|------------------------------|--------------------------------------|-------------------|-------------|------------------------|------------|------------|------------|------------|------------|-----------------------------------|-----------|------------|---------------------|------------|-------------|-------------|-------------------------------|-------------|-------------|-------------|---|---|--|
| | FDA125A5VEB | FAA71AUVEB | FAA100AUVEB | FHA35AVEB9 | FHA50AVEB9 | FHA60AVEB9 | FHA71AVEB9 | FHA100AVEB | FHA125AVEB | FHA140AVEB | FUA71AVEB | FUA100AVEB | FUA125AVEB | FVA71AMVEB | FVA100AMVEB | FVA125AMVEB | FVA140AMVEB | FNA35A2VEB9 | FNA50A2VEB9 | FNA60A2VEB9 | | | |
| RZAG71N7V1B RZAG71N7Y1B | | | P | | 2 | | | | | | P | | | P | | | | | | 2 | | | |
| RZAG100N7V1B RZAG100N7Y1B | | | | P | 3 | 2 | | | | | | | P | | P | | | | | 3 | 2 | | |
| RZAG125N7V1B RZAG125N7Y1B | P | | | | 4 | 3 | 2 | | | | | | P | | | P | | | | 4 | 3 | 2 | |
| RZAG140N7V1B RZAG140N7Y1B | | 2 | | | 4 | 3 | | 2 | | | P | 2 | | 2 | | | P | | | 4 | 3 | | |

COMBINATIONS

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

3D120926

RZAG-NV1 RZAG-NY1

Infrastructure cooling combination table

| | High COP round flow cassette | | | | Round flow cassette | | | | Fully flat cassette | | Slim concealed ceiling unit | | Concealed ceiling unit with medium ESP | | | | | |
|------------------------------|------------------------------|-------------|--------------|--------------|---------------------|------------|------------|-------------|---------------------|-------------|-----------------------------|--------------|--|-------------|-------------|-------------|-------------|--|
| | FCAG140BVEB | FCAHG71HVEB | FCAHG100HVEB | FCAHG140HVEB | FCAG35BVEB | FCAG50BVEB | FCAG71BVEB | FCAG100BVEB | FFA35A2VEB9 | FFA50A2VEB9 | FDXM35F3V1B9 | FDXM50F3V1B9 | FBA35A2VEB9 | FBA50A2VEB9 | FBA71A2VEB9 | FBA100A2VEB | FBA140A2VEB | |
| RZAG71N7V1B RZAG71N7Y1B | | | P | | 3 | 2 | | P | 3 | 2 | 3 | 2 | 3 | 2 | | P | | |
| RZAG100N7V1B RZAG100N7Y1B | P | 2 | | P | 4 | 3 | 2 | | 4 | 3 | 4 | 3 | 4 | 3 | 2 | | P | |
| RZAG125N7V1B RZAG125N7Y1B | P | 2 | | P | 4 | 3 | 2 | | 4 | 3 | 4 | 3 | 4 | 3 | 2 | | P | |
| RZAG140N7V1B RZAG140N7Y1B | P | 2 | | P | 4 | 3 | 2 | | 4 | 3 | 4 | 3 | 4 | 3 | 2 | | P | |

| | Wall mounted unit | | Ceiling suspended unit | | | | 4-way blow ceiling suspended unit | | Floor standing unit | | |
|------------------------------|-------------------|-------------|------------------------|------------|------------|------------|-----------------------------------|-----------|---------------------|-------------|-------------|
| | FAA71AUVEB | FAA100AUVEB | FHA35AVEB9 | FHA50AVEB9 | FHA71AVEB9 | FHA100AVEB | FHA140AVEB | FUA71AVEB | FUA100AVEB | FVA100AMVEB | FVA140AMVEB |
| RZAG71N7V1B RZAG71N7Y1B | | P | 3 | 2 | | | | | P | P | |
| RZAG100N7V1B RZAG100N7Y1B | 2 | | 4 | 3 | 2 | | | 2 | | | P |
| RZAG125N7V1B RZAG125N7Y1B | 2 | | 4 | 3 | 2 | | | 2 | | | P |
| RZAG140N7V1B RZAG140N7Y1B | 2 | | 4 | 3 | 2 | | | 2 | | | P |

COMBINATIONS

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

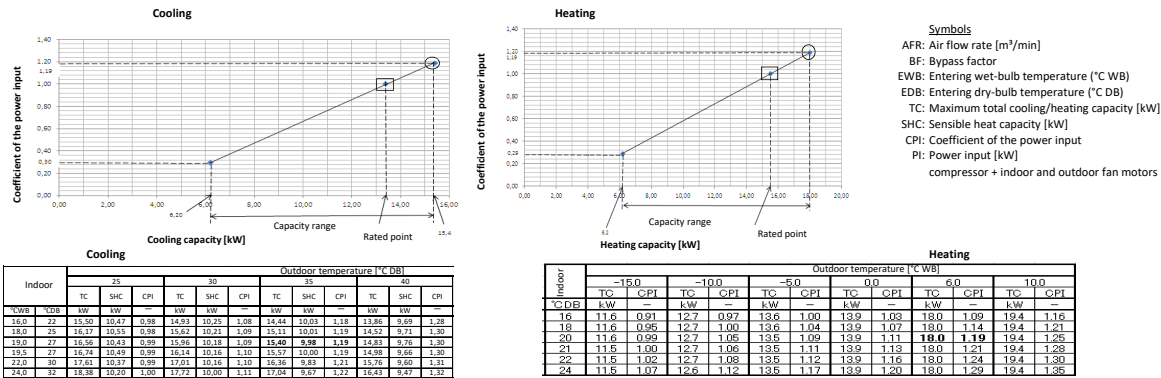
3D120929

6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZAG140NV1 RZAG140NY1

6



| Indoor | Outdoor temperature [°C DB] | | | | | | | | | | | | |
|--------|-----------------------------|-------|-------|------|-------|-------|------|-------|-------|------|-------|------|------|
| | 27 | | | 30 | | | 35 | | | 40 | | | |
| °CDB | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | |
| 16.0 | 22 | 15.50 | 10.47 | 0.98 | 14.93 | 10.25 | 1.08 | 14.44 | 10.03 | 1.18 | 13.86 | 9.89 | 1.28 |
| 18.0 | 25 | 16.17 | 10.55 | 0.98 | 15.62 | 10.71 | 1.09 | 15.11 | 10.01 | 1.19 | 14.52 | 9.71 | 1.30 |
| 19.0 | 27 | 16.56 | 10.63 | 0.99 | 15.96 | 10.81 | 1.09 | 15.46 | 9.98 | 1.19 | 14.83 | 9.76 | 1.30 |
| 19.5 | 27 | 16.74 | 10.69 | 0.99 | 16.14 | 10.81 | 1.10 | 15.57 | 10.00 | 1.19 | 14.88 | 9.66 | 1.30 |
| 22.0 | 30 | 17.81 | 10.57 | 0.99 | 17.01 | 10.81 | 1.10 | 16.36 | 9.87 | 1.21 | 15.76 | 9.60 | 1.31 |
| 24.0 | 33 | 18.38 | 10.52 | 1.00 | 17.72 | 10.00 | 1.11 | 17.04 | 9.87 | 1.22 | 16.43 | 9.57 | 1.32 |

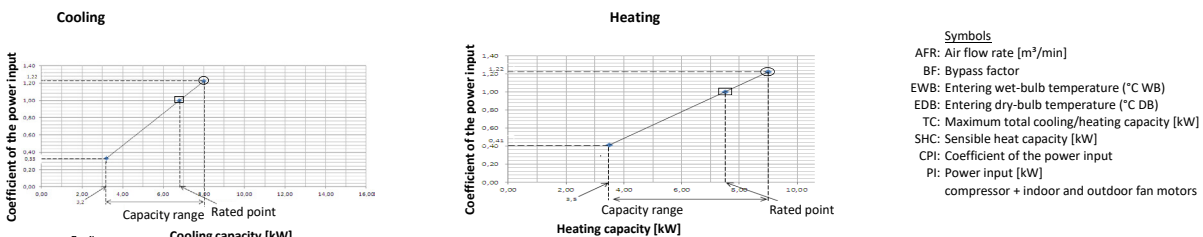
| Indoor | Outdoor temperature [°C WB] | | | | | | | | | | | |
|--------|-----------------------------|------|------|-------|------|------|------|------|------|------|------|------|
| | -15.0 | | | -10.0 | | | -5.0 | | | 0.0 | | |
| °CDB | TC | CPI | TC | CPI | TC | CPI | TC | CPI | TC | CPI | TC | CPI |
| 16 | 11.6 | 0.91 | 12.7 | 0.97 | 13.6 | 1.00 | 13.9 | 1.03 | 18.0 | 1.09 | 19.4 | 1.16 |
| 18 | 11.6 | 0.95 | 12.7 | 1.00 | 13.6 | 1.04 | 13.9 | 1.07 | 18.0 | 1.14 | 19.4 | 1.21 |
| 20 | 11.6 | 0.99 | 12.7 | 1.05 | 13.5 | 1.09 | 13.9 | 1.11 | 18.0 | 1.19 | 19.4 | 1.25 |
| 21 | 11.5 | 1.00 | 12.7 | 1.06 | 13.5 | 1.11 | 13.9 | 1.13 | 18.0 | 1.21 | 19.4 | 1.28 |
| 22 | 11.5 | 1.02 | 12.7 | 1.08 | 13.5 | 1.12 | 13.9 | 1.16 | 18.0 | 1.24 | 19.4 | 1.30 |
| 24 | 11.5 | 1.07 | 12.6 | 1.12 | 13.5 | 1.17 | 13.9 | 1.20 | 18.0 | 1.29 | 19.4 | 1.35 |

- 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 | FAA71A X 2 | FVA71A X 2 | FHA71A X 2 | FUA71A X 2 | FBA71A X 2 |
|------|-------------|-------------|------------|------------|------------|------------|------------|
| AFR | 21.2 x 2 | 15.3 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) | (0.13 x 2) | (0.13 x 2) | (0.16 x 2) |
- Triple**
- | | FFAG50B X 3 | FHA50A X 3 | FFA50A X 3 | FDXM35F X 3 | FBA50A X 3 | FNA50A X 3 |
|------|-------------|------------|------------|-------------|------------|------------|
| AFR | 12.5 x 3 | 15.0 x 3 | 12.0 x 3 | 15.0 x 3 | 15.0 x 3 | 15.0 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 | 15.0 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) |

- 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**
- | | FCAG140H | 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 | FAA71A X 2 | FVA71A X 2 | FHA71A X 2 | FUA71A X 2 | FBA71A 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 | FDXM35F 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 |

3D125183

RZAG71NV1 RZAG71NY1



| Indoor | Outdoor temperature [°C DB] | | | | | | | | | | | | |
|--------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | 25 | | | 30 | | | 35 | | | 40 | | | |
| °CDB | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | |
| 16.0 | 22 | 8.01 | 5.46 | 1.00 | 7.76 | 5.32 | 1.11 | 7.48 | 5.20 | 1.21 | 7.21 | 5.06 | 1.30 |
| 18.0 | 25 | 8.40 | 5.46 | 1.00 | 8.11 | 5.32 | 1.11 | 7.83 | 5.19 | 1.22 | 7.54 | 5.05 | 1.33 |
| 19.0 | 27 | 8.69 | 5.44 | 1.00 | 8.30 | 5.32 | 1.12 | 8.06 | 5.28 | 1.28 | 7.30 | 5.05 | 1.33 |
| 19.5 | 27 | 8.69 | 5.40 | 1.01 | 8.39 | 5.31 | 1.12 | 8.05 | 5.17 | 1.29 | 7.29 | 5.05 | 1.33 |
| 22.0 | 30 | 9.15 | 5.38 | 1.01 | 8.84 | 5.25 | 1.12 | 8.52 | 5.13 | 1.23 | 8.21 | 4.99 | 1.34 |
| 24.0 | 33 | 9.33 | 5.31 | 1.03 | 9.20 | 5.19 | 1.13 | 8.87 | 5.08 | 1.25 | 8.54 | 4.92 | 1.35 |

| Indoor | Outdoor temperature [°C WB] | | | | | | | | | | | |
|--------|-----------------------------|------|------|-------|------|------|------|------|------|------|------|------|
| | -15.0 | | | -10.0 | | | -5.0 | | | 0.0 | | |
| °CDB | TC | CPI | TC | CPI | TC | CPI | TC | CPI | TC | CPI | TC | CPI |
| 16 | 6.44 | 0.92 | 7.09 | 0.99 | 7.65 | 1.02 | 7.79 | 1.06 | 9.00 | 1.12 | 9.71 | 1.19 |
| 18 | 6.43 | 0.96 | 7.09 | 1.03 | 7.64 | 1.02 | 7.78 | 1.10 | 9.00 | 1.17 | 9.71 | 1.24 |
| 20 | 6.42 | 1.01 | 7.07 | 1.07 | 7.63 | 1.12 | 7.77 | 1.14 | 9.00 | 1.22 | 9.71 | 1.28 |
| 21 | 6.42 | 1.03 | 7.07 | 1.09 | 7.63 | 1.13 | 7.77 | 1.16 | 9.00 | 1.24 | 9.71 | 1.31 |
| 22 | 6.42 | 1.06 | 7.06 | 1.11 | 7.62 | 1.15 | 7.76 | 1.19 | 9.00 | 1.27 | 9.71 | 1.33 |
| 24 | 6.41 | 1.09 | 7.05 | 1.15 | 7.61 | 1.20 | 7.75 | 1.23 | 9.00 | 1.32 | 9.67 | 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 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**
- | | FCAG71H | FCAG71B | FAA71A | FVA71A | FHA71A | FUA71A | FBA71A |
|------|---------|---------|--------|--------|--------|--------|--------|
| AFR | 21.2 | 15.3 | 18.0 | 18.0 | 20.5 | 23.0 | 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 | 14.0 x 2 | 10.0 x 2 | 8.7 x 2 | 15.0 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) |

- 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**
- | | FCAG71H | FCAG71B | FAA71A | FVA71A | FHA71A | FUA71A | FBA71A |
|---------|---------|---------|--------|--------|--------|--------|--------|
| Cooling | 1.65 | 1.92 | 2.08 | 2.08 | 1.81 | 1.77 | 2.00 |
| 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 |
| Heating | 1.59 | 1.69 | 2.25 | 1.84 | 1.90 | 1.86 |

3D125180

6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

RZAG140NV1
RZAG140NY1
Performance characteristics for -EDP- room

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|----|----|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|-------|------|------|------|------|------|------|------|------|----|----|-----|-----|----|----|--|--|--|----|--|--|--|
| | | | -20 | | | | -15 | | | | -10 | | | | -5 | | | | 0 | | | | 5 | | | | 10 | | | | 15 | | | | 20 | | | | 25 | | | | 30 | | | | 35 | | | | 40 | | | |
| | | | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | | | | | | | | |
| 41.8 | 11 | 18 | 8.24 | 8.24 | 0.31 | 8.24 | 8.24 | 0.32 | 8.24 | 8.24 | 0.33 | 8.24 | 8.24 | 0.34 | 8.24 | 8.24 | 0.35 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.37 | 8.24 | 8.24 | 0.38 | 10.95 | 9.96 | 0.96 | 10.37 | 9.62 | 1.06 | 9.79 | 9.27 | 1.16 | 9.28 | 8.92 | 1.25 | | | | | | | | | | | | | |

Symbol:
 TC: Maximum total cooling capacity [kW]
 SHC: Sensible heat capacity [kW]
 CPI: Coefficient of the power input
 P: Power input [kW]
 compressor + indoor and outdoor fan motors
 RH: Relative humidity [%]

- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - The capacities are based on the following conditions:
 Outdoor air: 85% RH
 Corresponding refrigerant piping length: 5.0 m
 Level difference: 0 m
 - For EDP applications, it is recommended to use outdoor unit setting 2-57-2.
 - 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 rated power input for each model is mentioned in the table below.

3D125187
RZAG125NV1
RZAG125NY1
Performance characteristics for -EDP- room

| Indoor | | | Outdoor temperature [°C DB] | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------|----|----|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|------|------|------|------|------|------|------|------|------|------|------|----|-----|-----|----|----|-----|-----|----|----|-----|-----|----|----|--|--|--|
| | | | -20 | | | | -15 | | | | -10 | | | | -5 | | | | 0 | | | | 5 | | | | 10 | | | | 15 | | | | 20 | | | | 25 | | | | 30 | | | | 35 | | | | 40 | | | |
| | | | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | TC | SHC | CPI | kW | | | | |
| 41.8 | 11 | 18 | 7.49 | 7.49 | 0.32 | 7.49 | 7.49 | 0.33 | 7.49 | 7.49 | 0.34 | 7.49 | 7.49 | 0.35 | 7.49 | 7.49 | 0.36 | 7.49 | 7.49 | 0.37 | 7.49 | 7.49 | 0.38 | 7.49 | 7.49 | 0.38 | 10.25 | 9.60 | 0.98 | 9.71 | 9.28 | 1.08 | 9.17 | 8.74 | 1.18 | 8.69 | 8.69 | 1.27 | | | | | | | | | | | | | | | | |

Symbol:
 TC: Maximum total cooling capacity [kW]
 SHC: Sensible heat capacity [kW]
 CPI: Coefficient of the power input
 P: Power input [kW]
 compressor + indoor and outdoor fan motors
 RH: Relative humidity [%]

- Notes**
- The ratings shown are net capacities which include a deduction for indoor fan motor heat.
 - The capacities are based on the following conditions:
 Outdoor air: 85% RH
 Corresponding refrigerant piping length: 5.0 m
 Level difference: 0 m
 - For EDP applications, it is recommended to use outdoor unit setting 2-57-2.
 - 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 rated power input for each model is mentioned in the table below.

Pair

| | | | | | |
|----------|----------|---------|---------|---------|------|
| FCAG140H | FCAG140B | FVA140A | FHA140A | FBA140A | |
| Cooling | 3.09 | 3.07 | 3.17 | 3.05 | 2.99 |

Twin

| | | | | | | |
|-----------|-----------|----------|----------|----------|----------|------|
| FCAG71Hx2 | FCAG71Bx2 | FHA71Ax2 | FUA71Ax2 | FAA71Ax2 | FBA71Ax2 | |
| Cooling | 2.57 | 2.79 | 2.68 | 2.69 | 2.88 | 2.64 |

Triple

| | | | | | |
|-----------|----------|----------|----------|----------|------|
| FCAG50Bx3 | FHA50Ax3 | FFA50Ax3 | FDXM50F3 | FBA50Ax3 | |
| Cooling | 2.57 | 2.79 | 2.97 | 2.36 | 2.74 |

Double twin

| | | | | | |
|-----------|----------|----------|----------|----------|------|
| FCAG35Bx4 | FHA35Ax4 | FFA35Ax4 | FDXM35F4 | FBA35Ax4 | |
| Cooling | 2.51 | 2.45 | 2.71 | 2.55 | 2.96 |

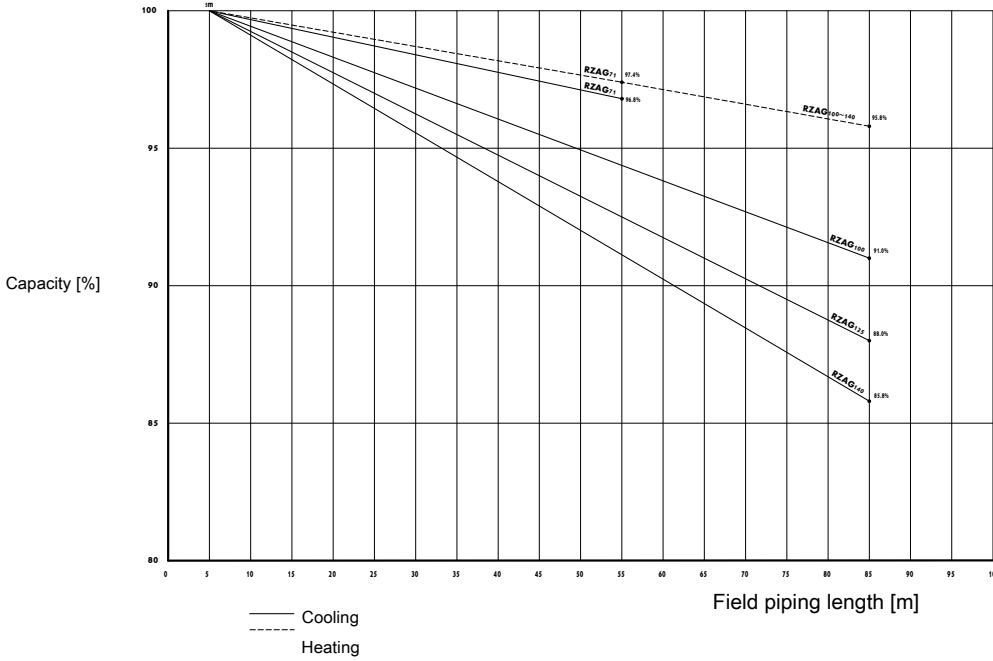
3D125186

6 Capacity tables

6 - 2 Capacity Correction Factor

RZAG-NV1
RZAG-NY1

Capacity in function of field piping length



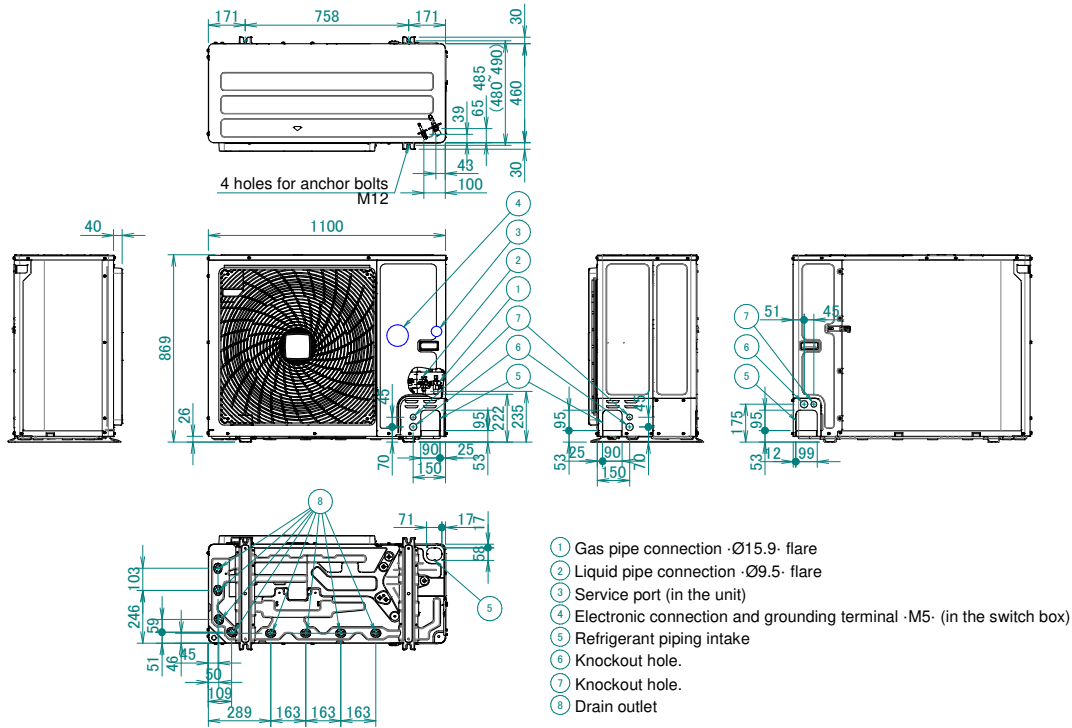
3D112162

7 Dimensional drawings

7 - 1 Dimensional Drawings

7

RZAG-NV1
RZAG-NY1

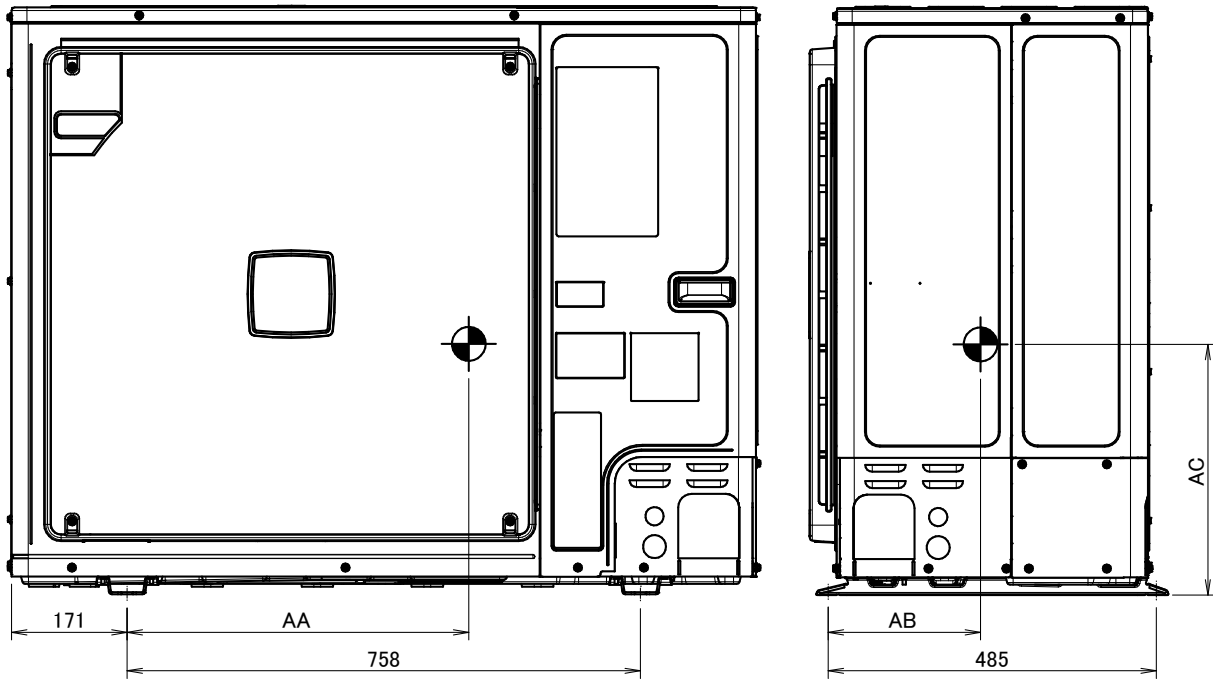


3D120936

8 Centre of gravity

8 - 1 Centre of Gravity

RZAG-NV1 RZAG-NY1



| Model | AA | AB | AC |
|------------------|-------|-------|-------|
| RZAG71N7V1B | 520.3 | 238.7 | 357.8 |
| RZAG71N7Y1B | 525.9 | 224.7 | 359.8 |
| RZAG100N7V1B | 499.7 | 239.3 | 367.6 |
| RZAG100N7Y1B | 511.2 | 223.5 | 362.5 |
| RZAG125/140N7V1B | 486.3 | 229.2 | 371.8 |
| RZAG125/140N7Y1B | 493.4 | 215.8 | 372.2 |
| RXYSA4/5/6A7V1B | 530.4 | 249.9 | 389.0 |
| RXYSA4/5/6A7Y1B | | | |

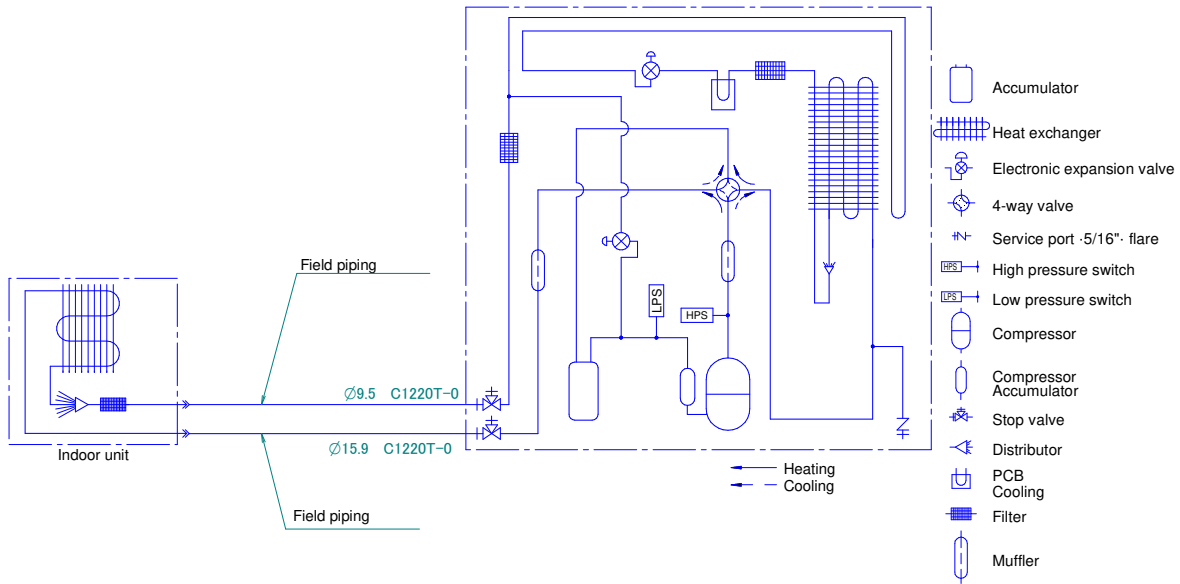
4D120933B

9 Piping diagrams

9 - 1 Piping Diagrams

9

RZAG-NV1
RZAG-NY1



Notes

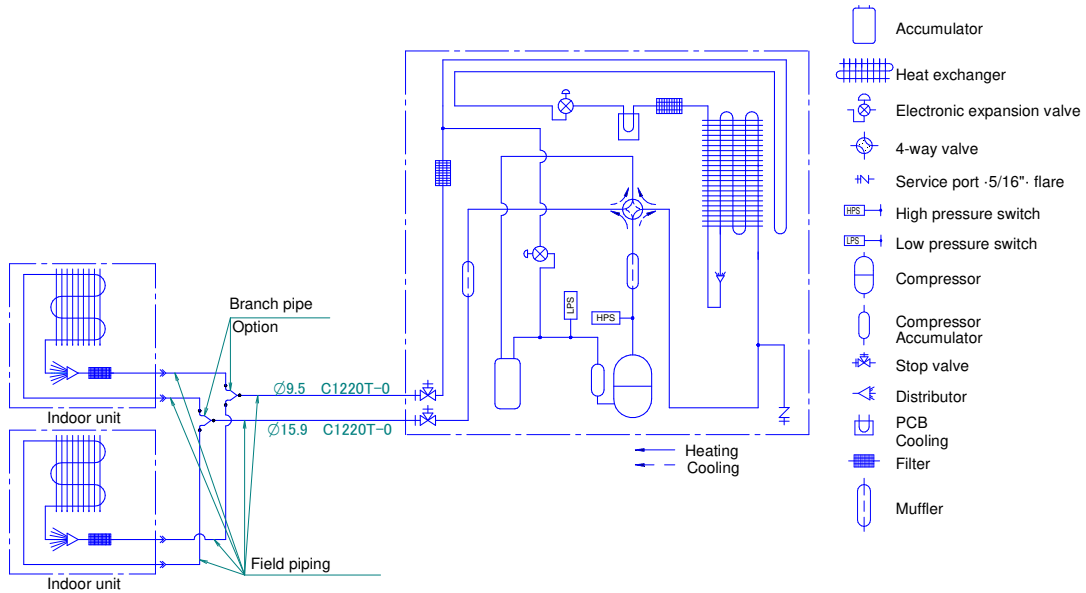
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

3D120907

9 Piping diagrams

9 - 2 Piping Diagram Twin Application

RZAG-NV1
RZAG-NY1



Notes

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

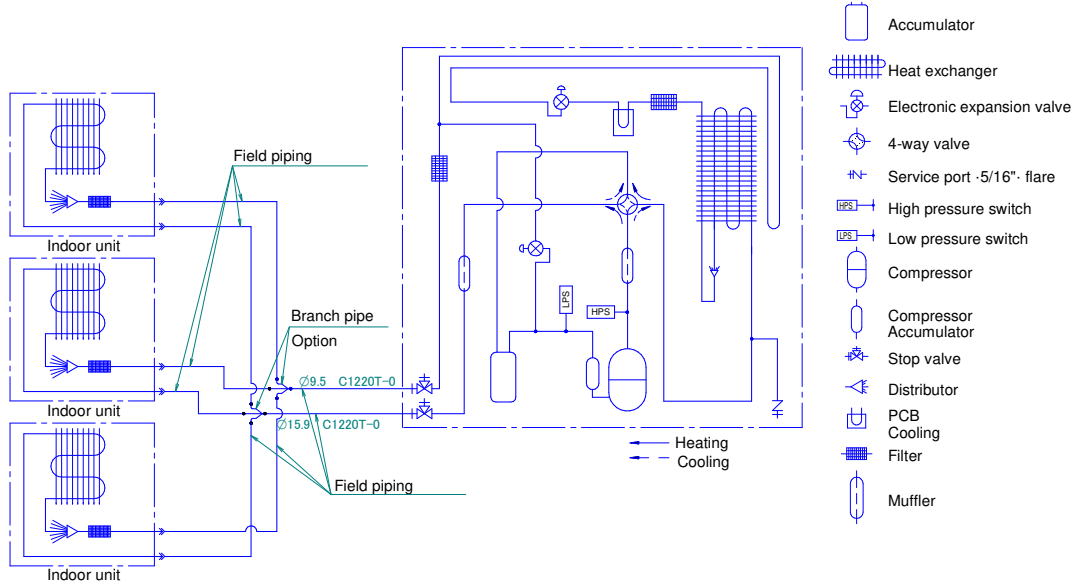
3D120913

9 Piping diagrams

9 - 3 Piping Diagram Triple Application

9

RZAG100-140NV1
RZAG100-140NY1



Notes

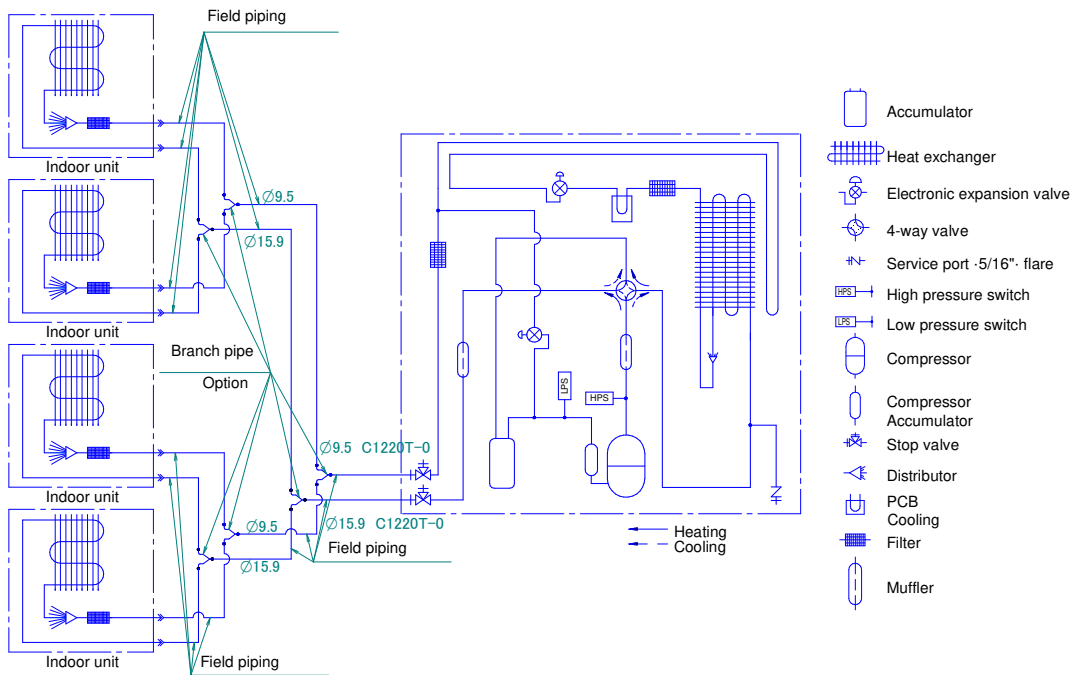
1. The pipes between the branch and the indoor units should have the same size as the indoor connections.

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.

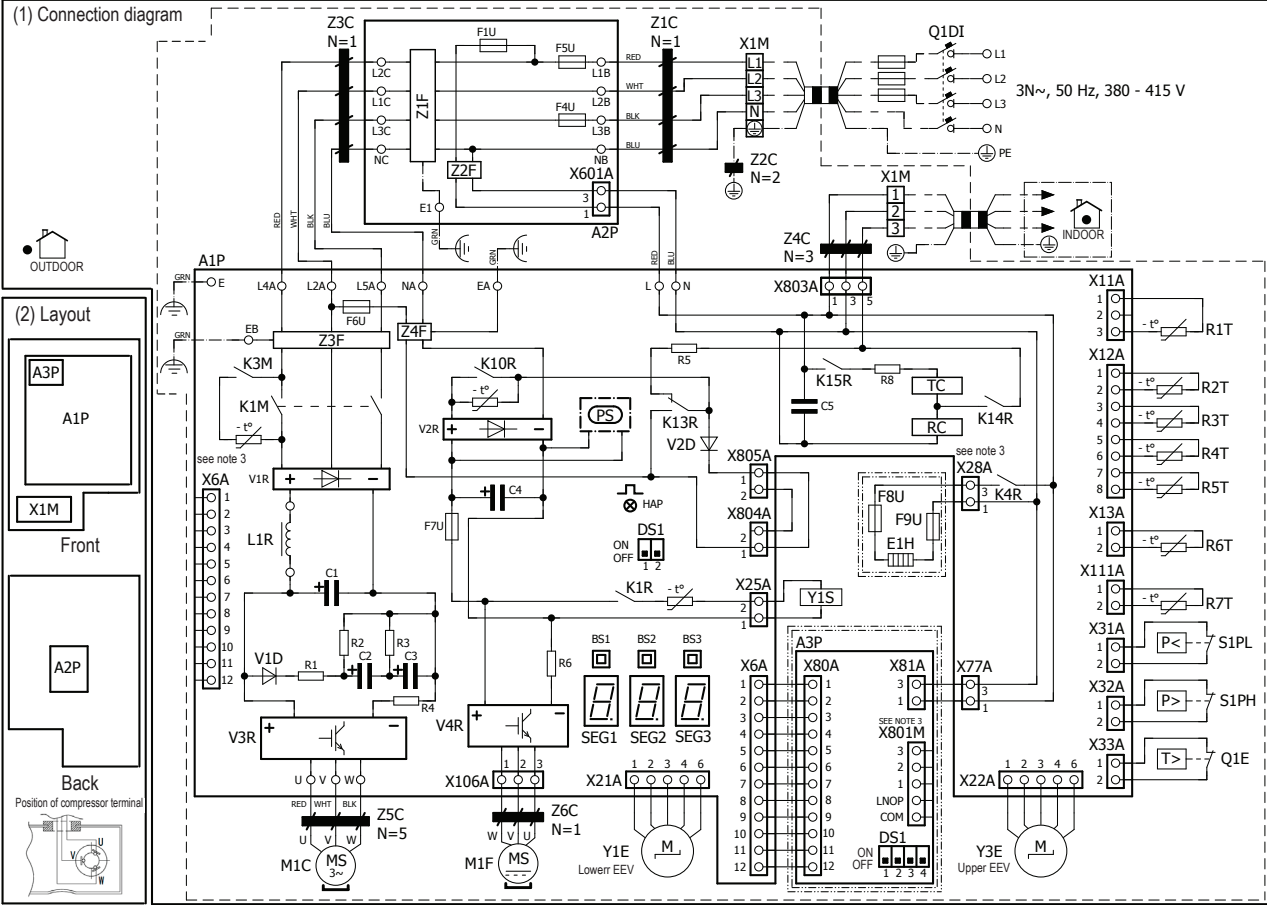
3D120915

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

10

RZAG-NY1



(3) NOTES

- : Connection
- : Earth wiring
- : Field supply
- : Option
- : switch box
- : PCB
- : Wiring depending on model
- : Protective earth
- : 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 |
| C1-C5 (A1P) | Capacitor |
| DS1 (A1P, A3P) | Dipswitch |
| E1H | * Bottom plate heater |
| F1U (A2P) | Fuse T 6,3 A 250 V |
| F4U, F5U (A2P) | Fuse T 30 A 500 V |
| F6U (A1P) | Fuse T 6,3 A 250 V |
| F7U (A1P) | Fuse T 5 A 250 V |
| F8U, F9U | * Fuse F 1 A 250 V |
| HAP (A1P) | Light-emitting diode (service monitor is green) |
| K1M, K3M (A1P) | Magnetic contactor |
| K1R (A1P) | Magnetic relay (Y1S) |
| K4R (A1P) | Magnetic relay (E1H) |
| K10R | Magnetic relay |
| K13R-K15R (A1P) | Magnetic relay |
| L1R | Reactor |
| M1C | Compressor motor |
| M1F | Fan motor |
| PS (A1P) | Switching power supply |
| Q1DI | Earth leakage circuit breaker (30mA) |

| Part n° | Description |
|-----------------------------|------------------------------------|
| Q1E | Overload protection |
| R1-R6, R8 (A1P) | Resistor |
| R1T | Thermistor (air) |
| R2T | Thermistor (discharge) |
| R3T | Thermistor (suction) |
| R4T | Thermistor (heat exchanger) |
| R5T | Thermistor (heat exchanger middle) |
| R6T | Thermistor (liquid) |
| R7T | Thermistor (fin) |
| RC (A1P) | Signal receiver circuit |
| S1PH | High pressure switch |
| S1PL | Low pressure switch |
| SEG1-SEG3 (A1P) | 7-segment display |
| TC (A1P) | Signal transmission circuit |
| V1D, V2D (A1P) | Diode |
| V1R, V2R (A1P) | Diode module |
| V3R, V4R (A1P) | IGBT power module |
| X1M | Terminal strip |
| Y1E, Y3E | Electronic expansion valve |
| Y1S | Solenoid valve (4-way valve) |
| Z1C-Z6C | Noise filter (ferrite core) |
| Z1F-Z4F (A1P-A2P) | Noise filter |
| L*A, L*B, NA, NB | Connector |
| E*, U, V, W, X*A (A1P, A2P) | Connector |

* : optional
: field supply

NOTES

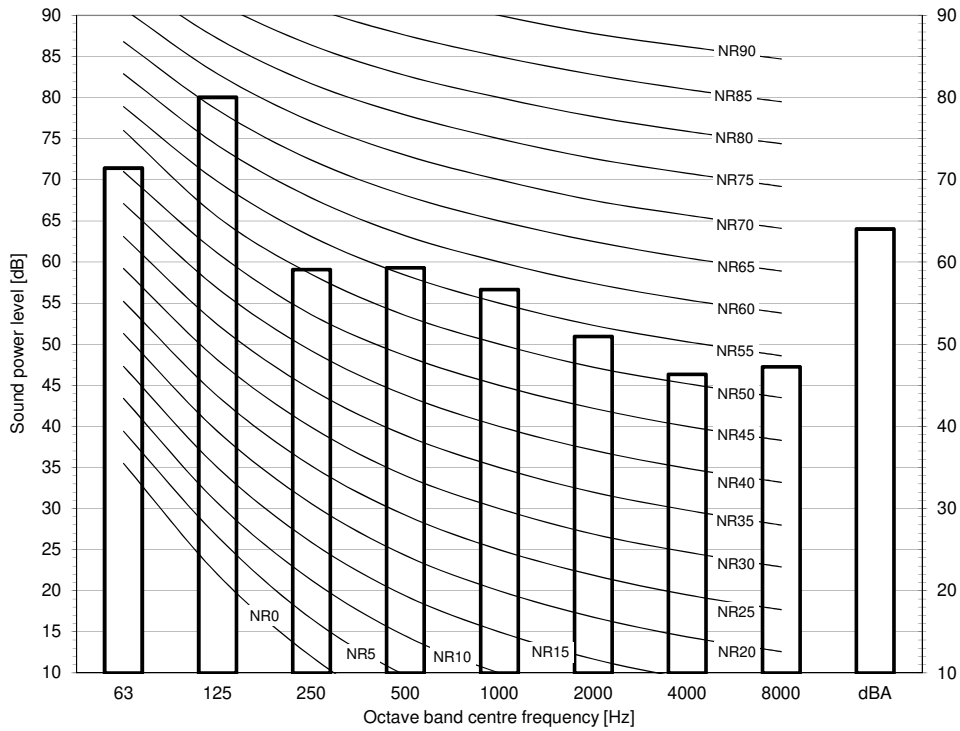
- Refer to the wiring diagram sticker (on the back of the front plate) for how to use the BS1-BS3 and DS1 switches.
- When operating, do not short-circuit protection device(s) S1PH, S1PL and Q1E.
- Refer to the combination table and the option manual for how to connect the wiring to X28A and X801M.
-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

4D120911

11 Sound data

11 - 1 Sound Power Spectrum

RZAG71NV1
RZAG71NY1

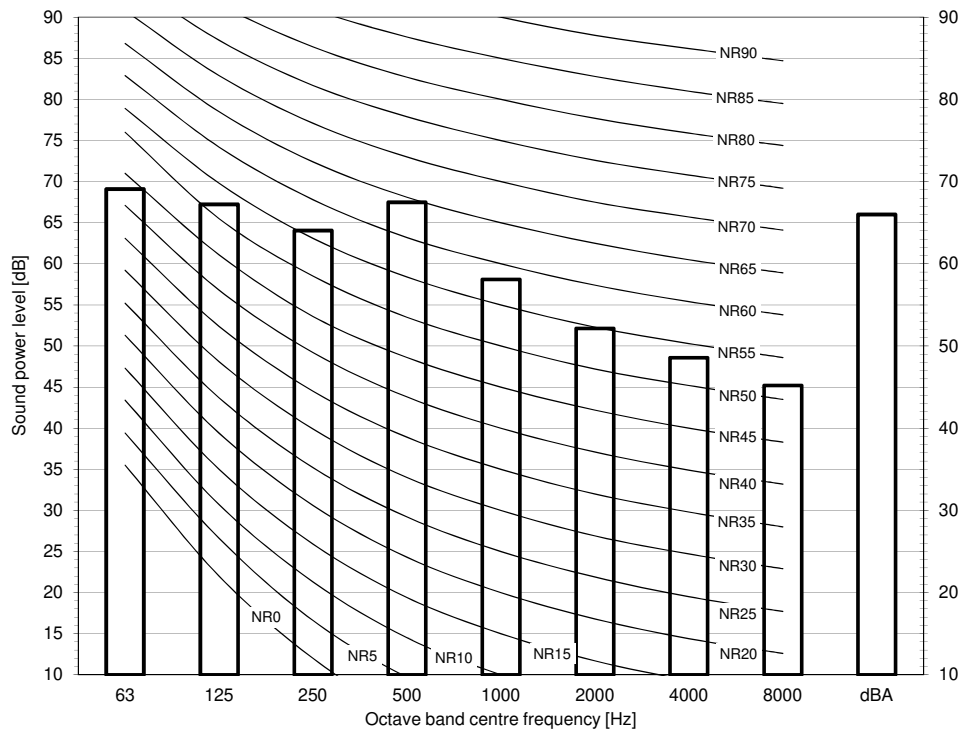


Notes

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

3D125149

RZAG100NV1
RZAG100NY1



Notes

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

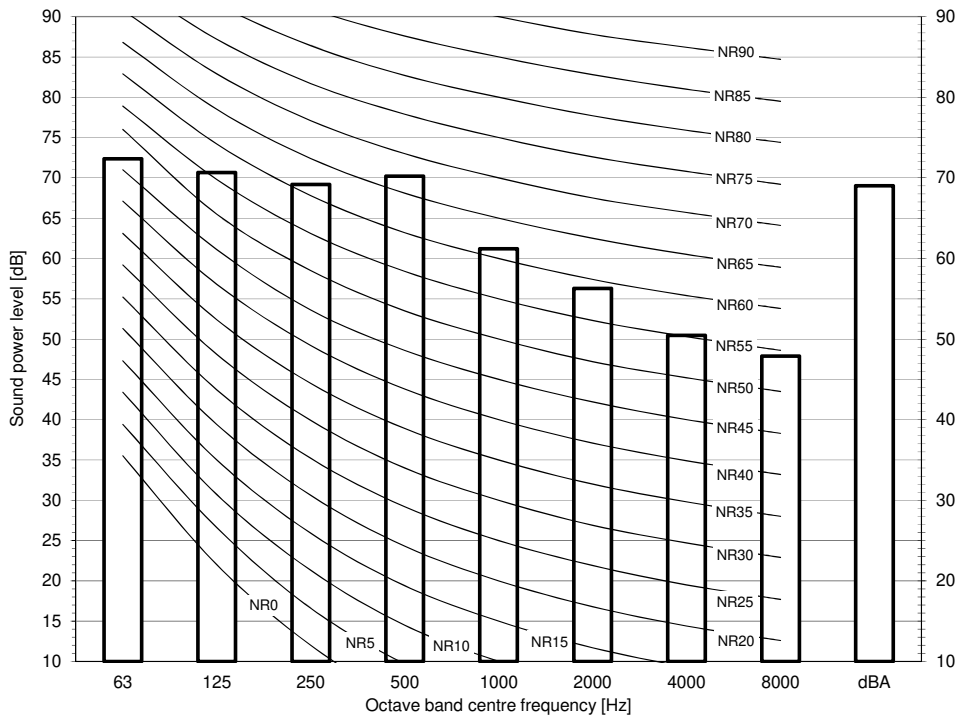
3D125155

11 Sound data

11 - 1 Sound Power Spectrum

11

RZAG125NV1
RZAG125NY1

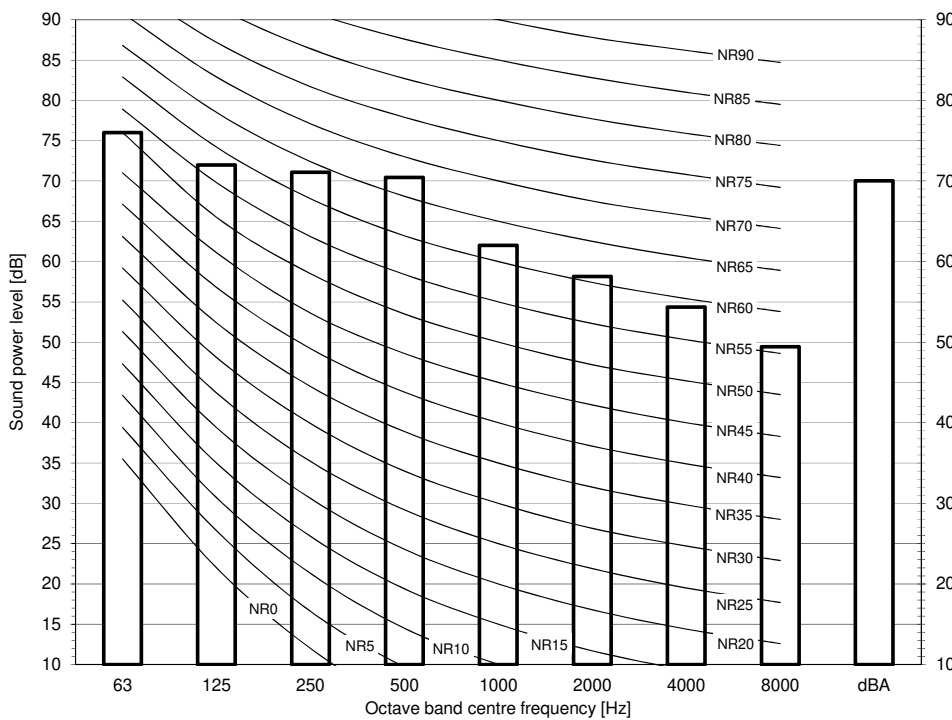


Notes

- 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

3D125161

RZAG140NV1
RZAG140NY1



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

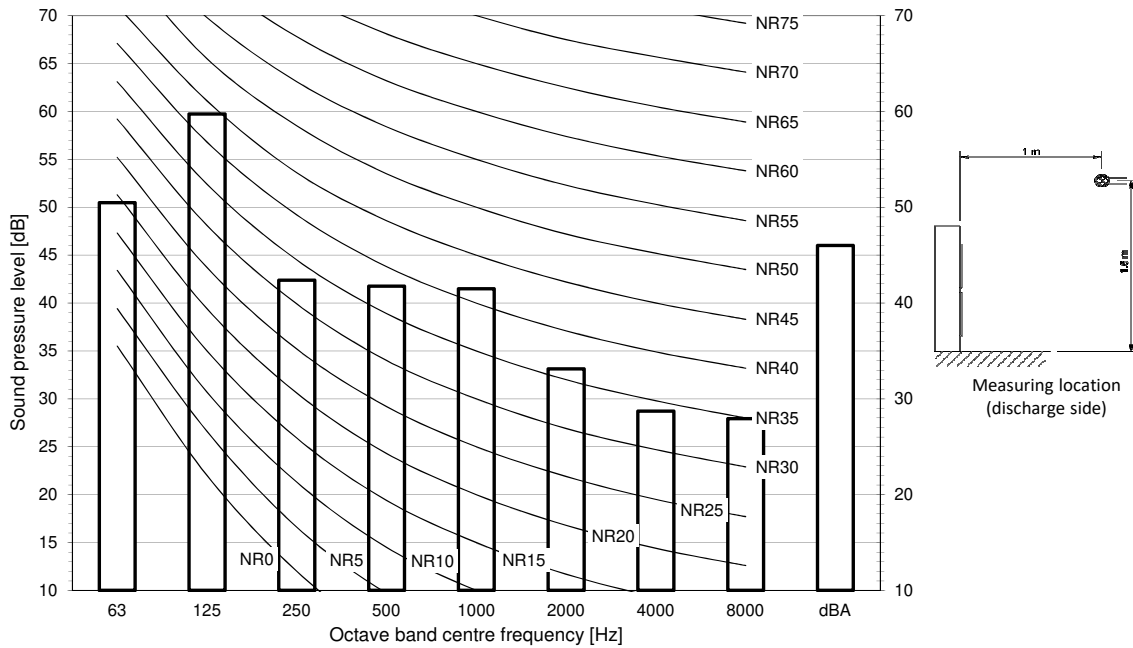
3D125167

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

RZAG71NV1

RZAG71NY1



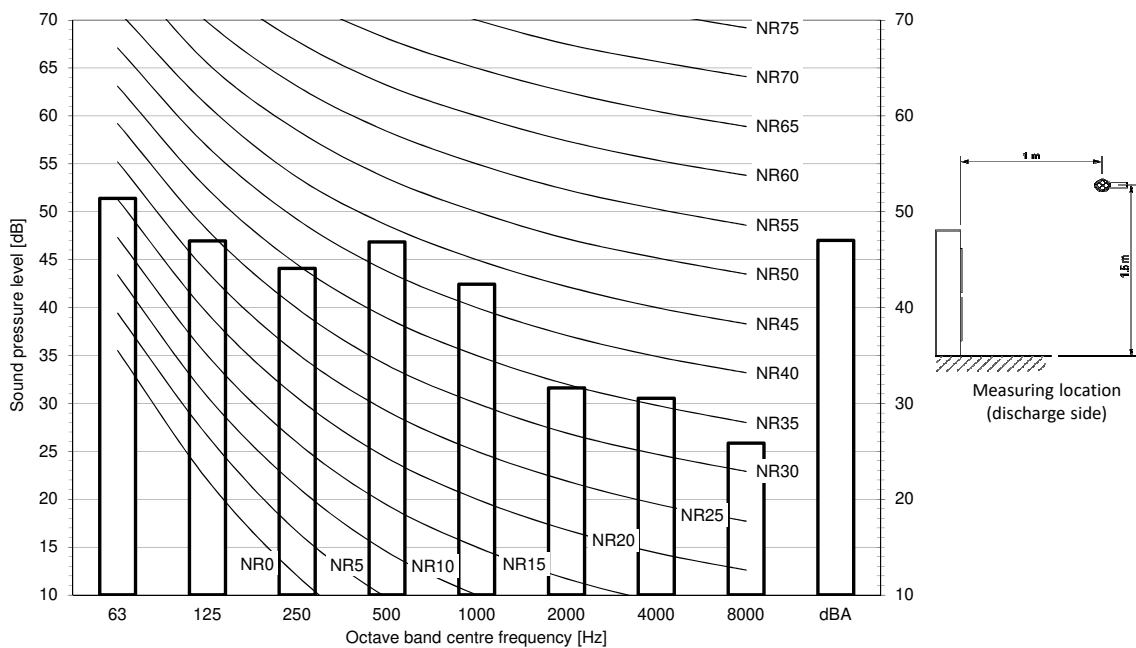
Notes

- 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 μPa

3D125147

RZAG100NV1

RZAG100NY1



Notes

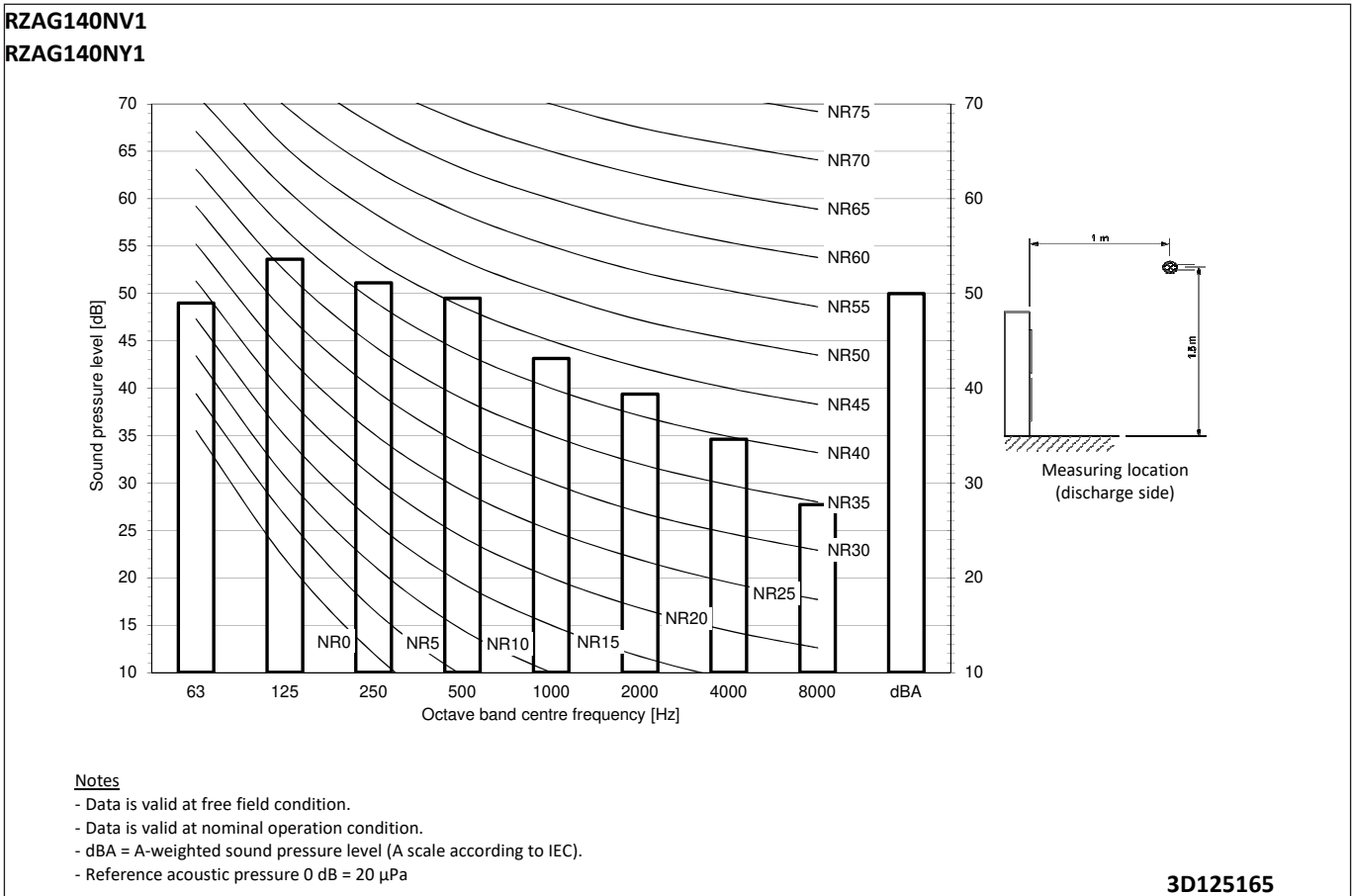
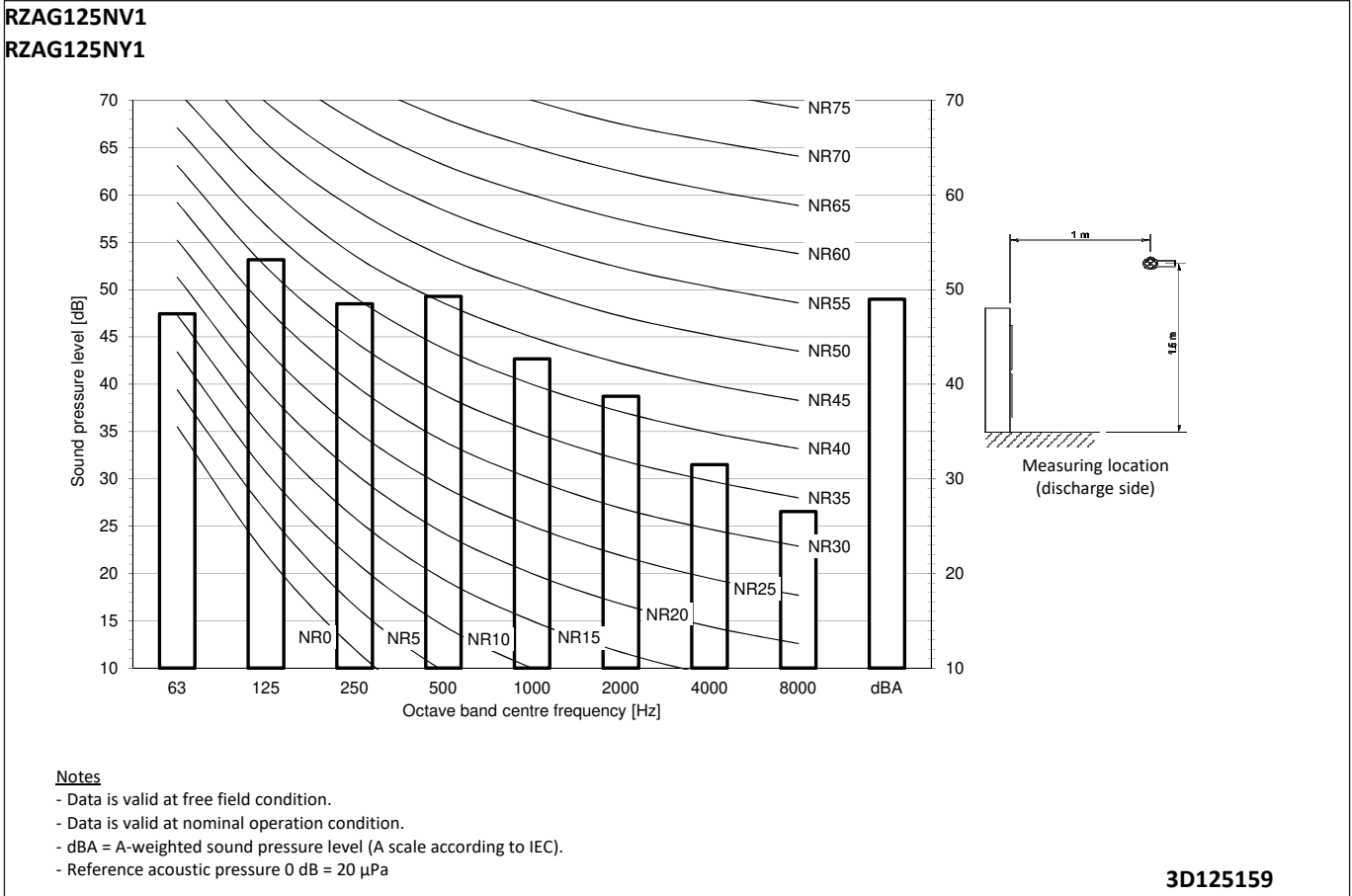
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μPa

3D125153

11 Sound data

11 - 2 Sound Pressure Spectrum - Cooling

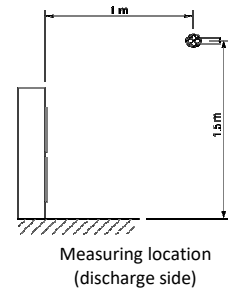
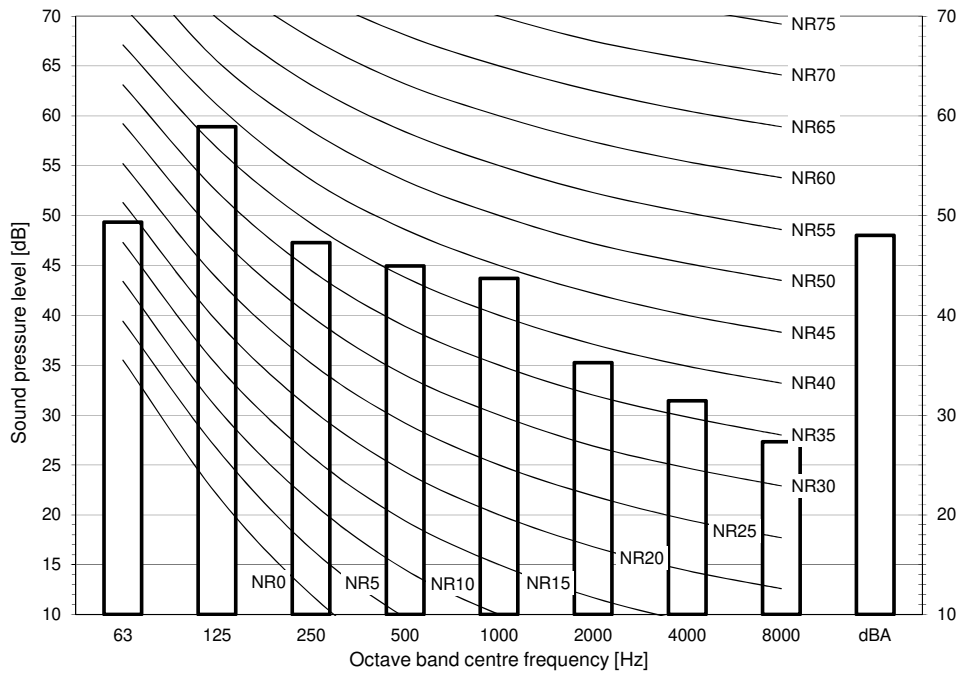
11



11 Sound data

11 - 3 Sound Pressure Spectrum - Heating

RZAG71NV1
RZAG71NY1

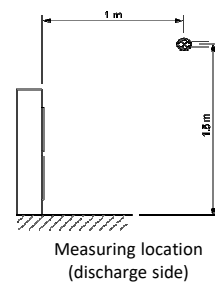
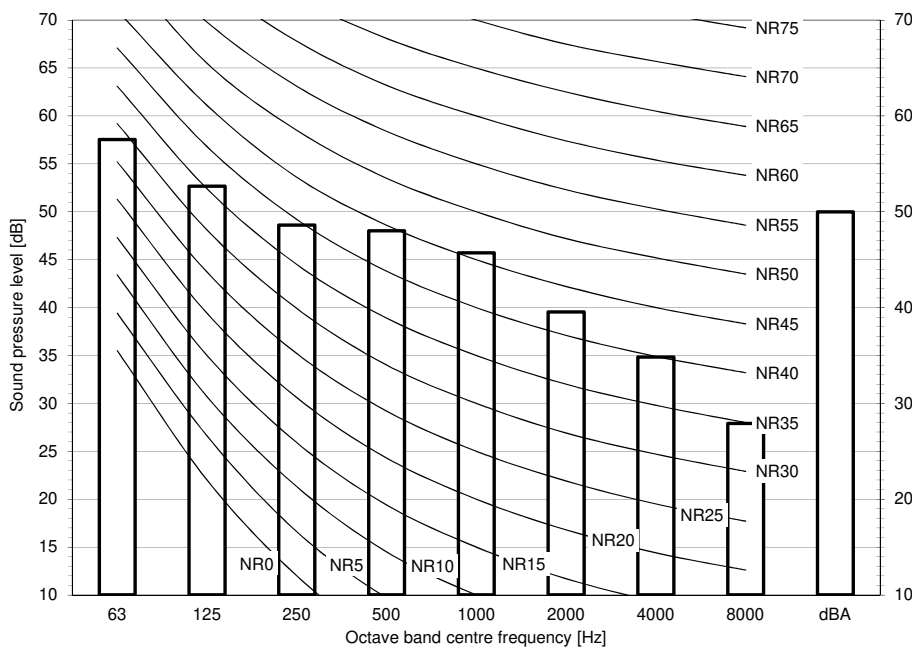


Notes

- 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 μPa

3D125148

RZAG100NV1
RZAG100NY1



Notes

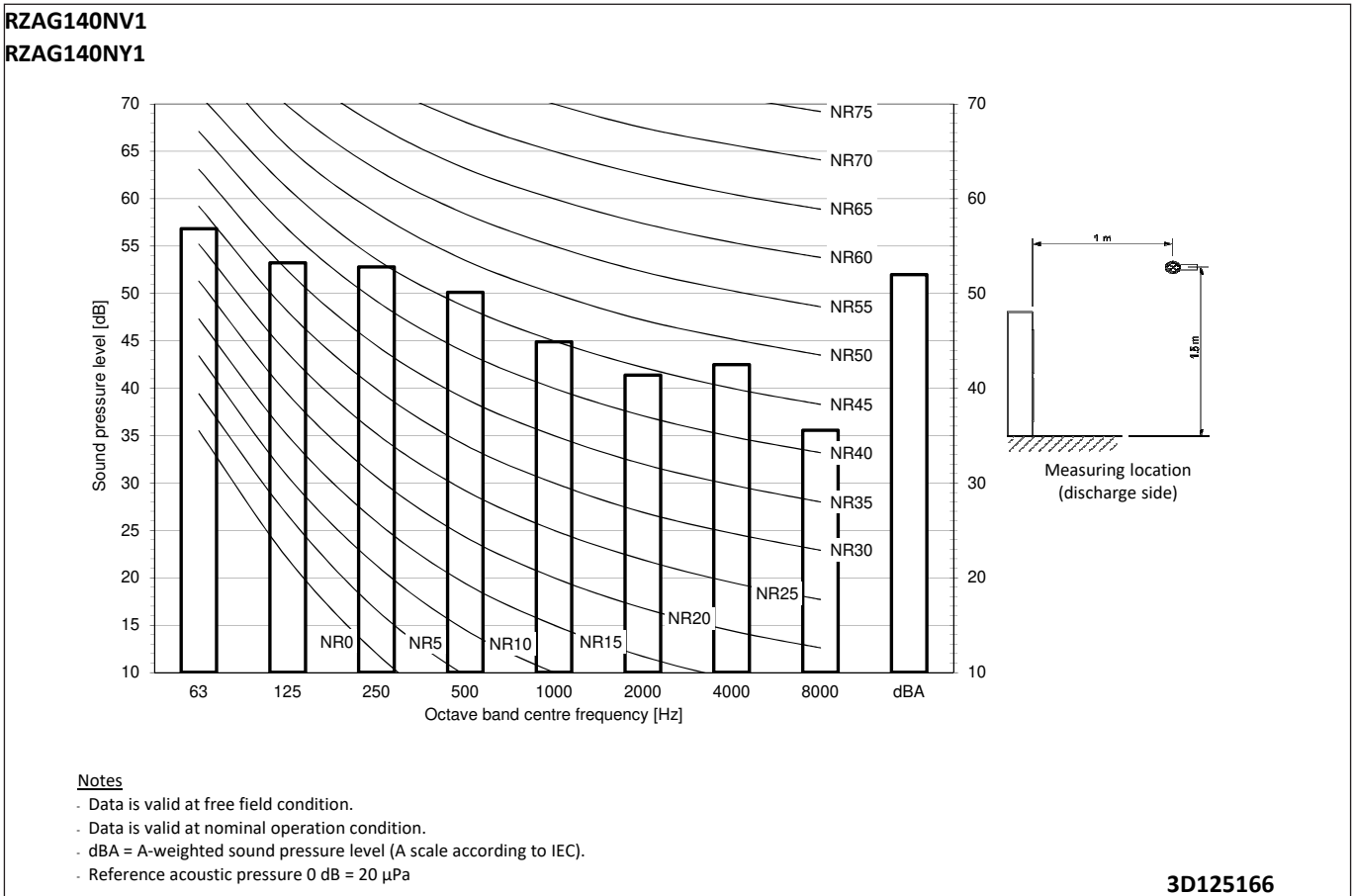
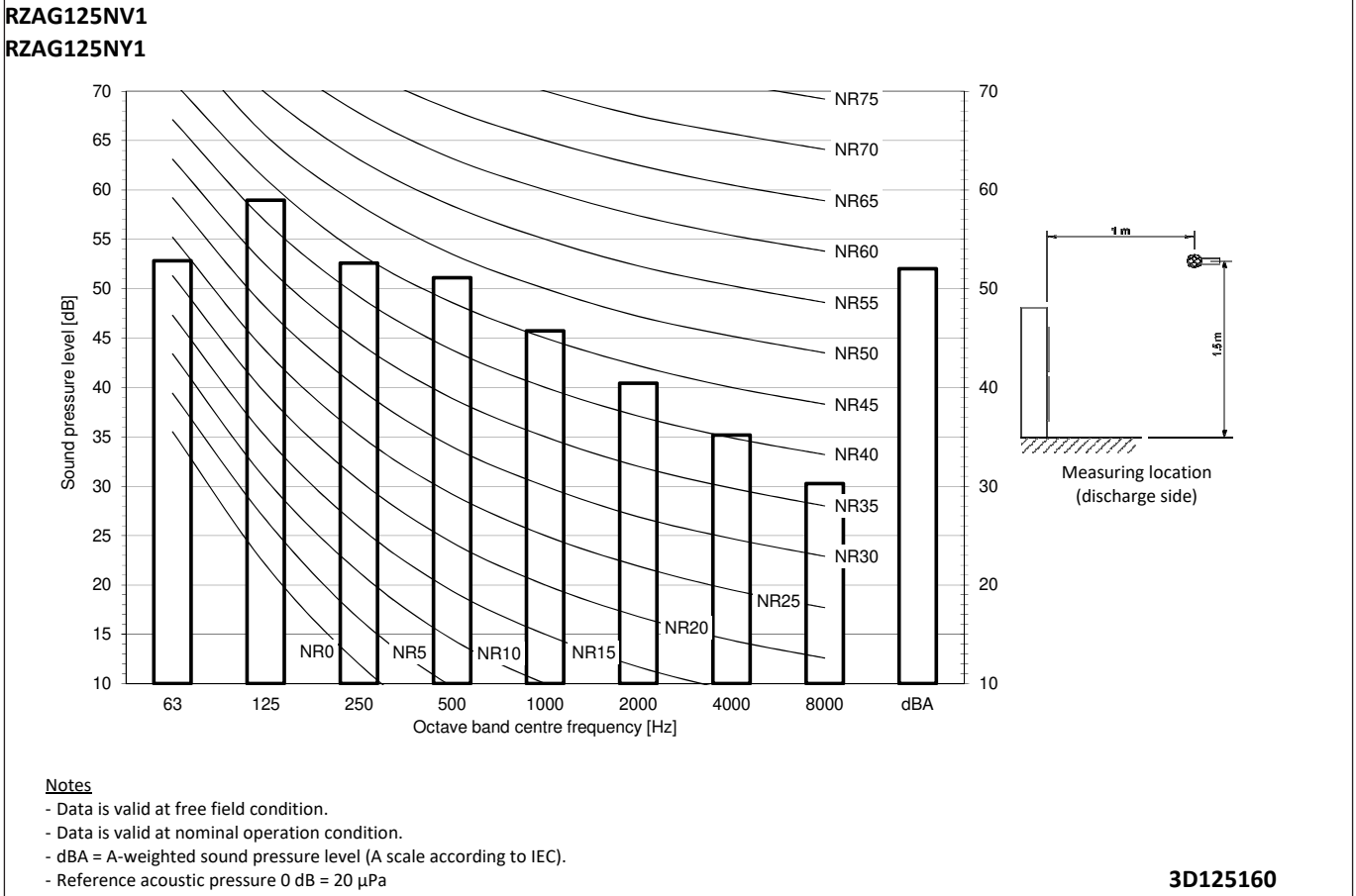
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μPa

3D125154

11 Sound data

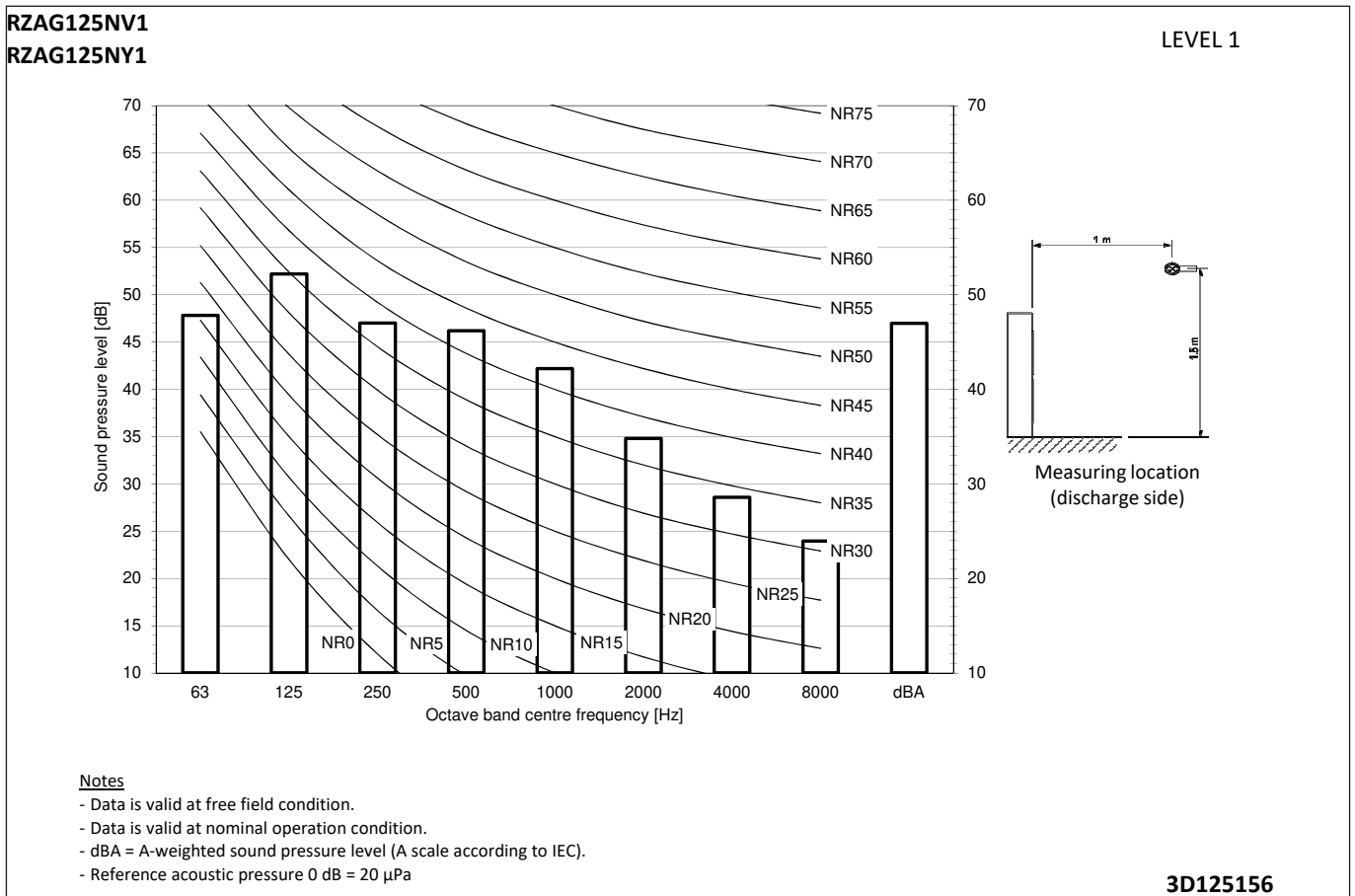
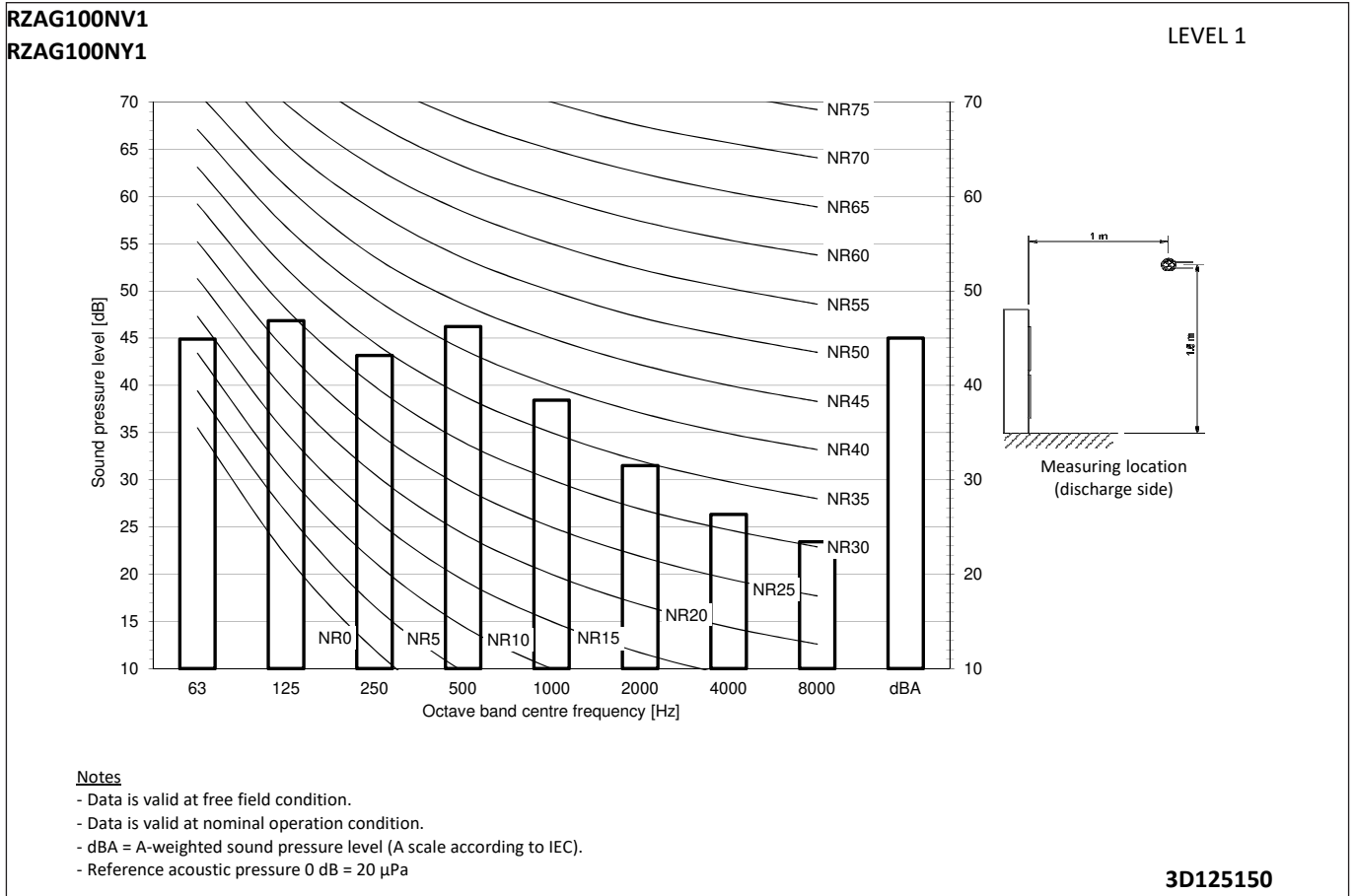
11 - 3 Sound Pressure Spectrum - Heating

11



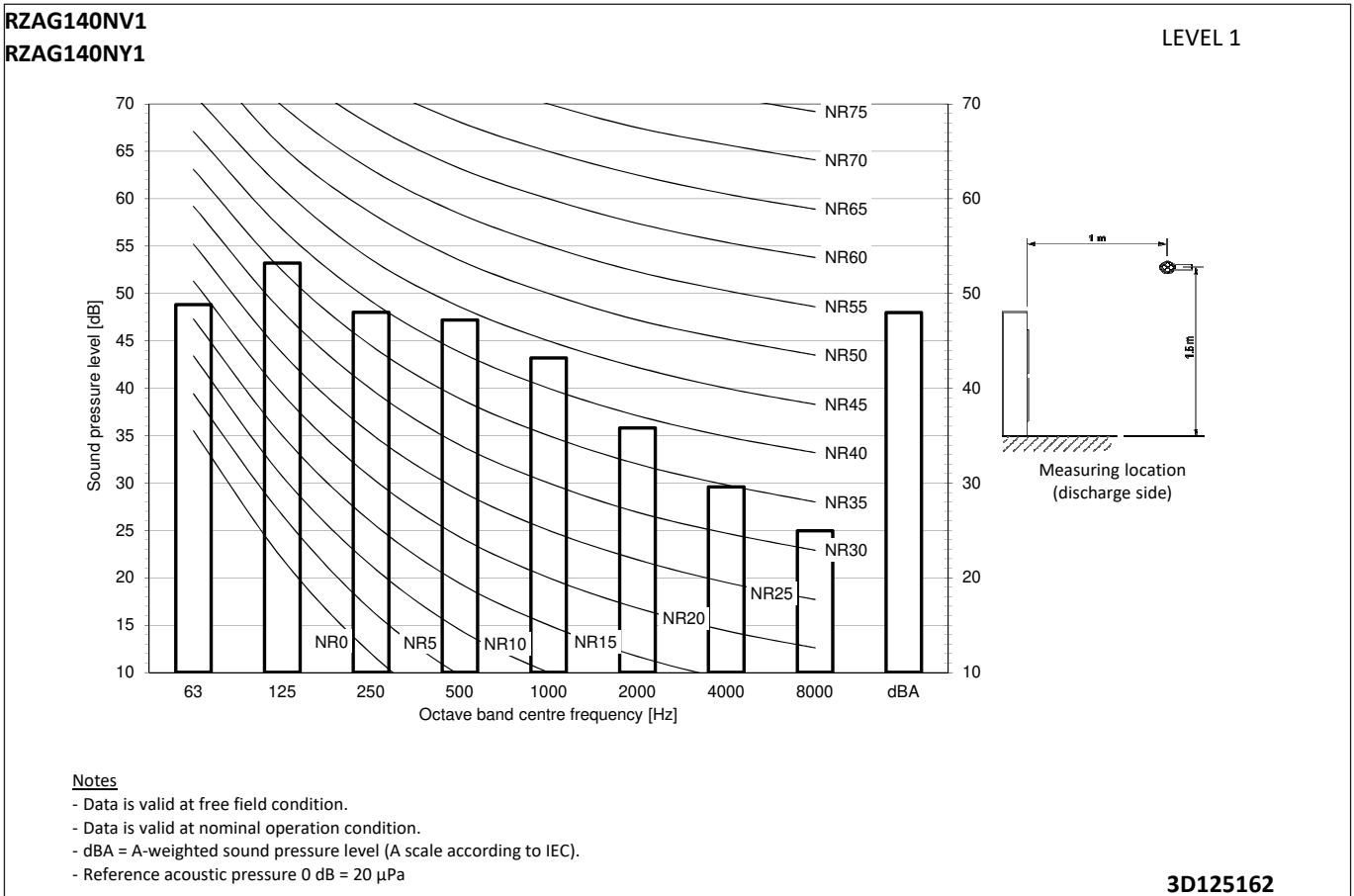
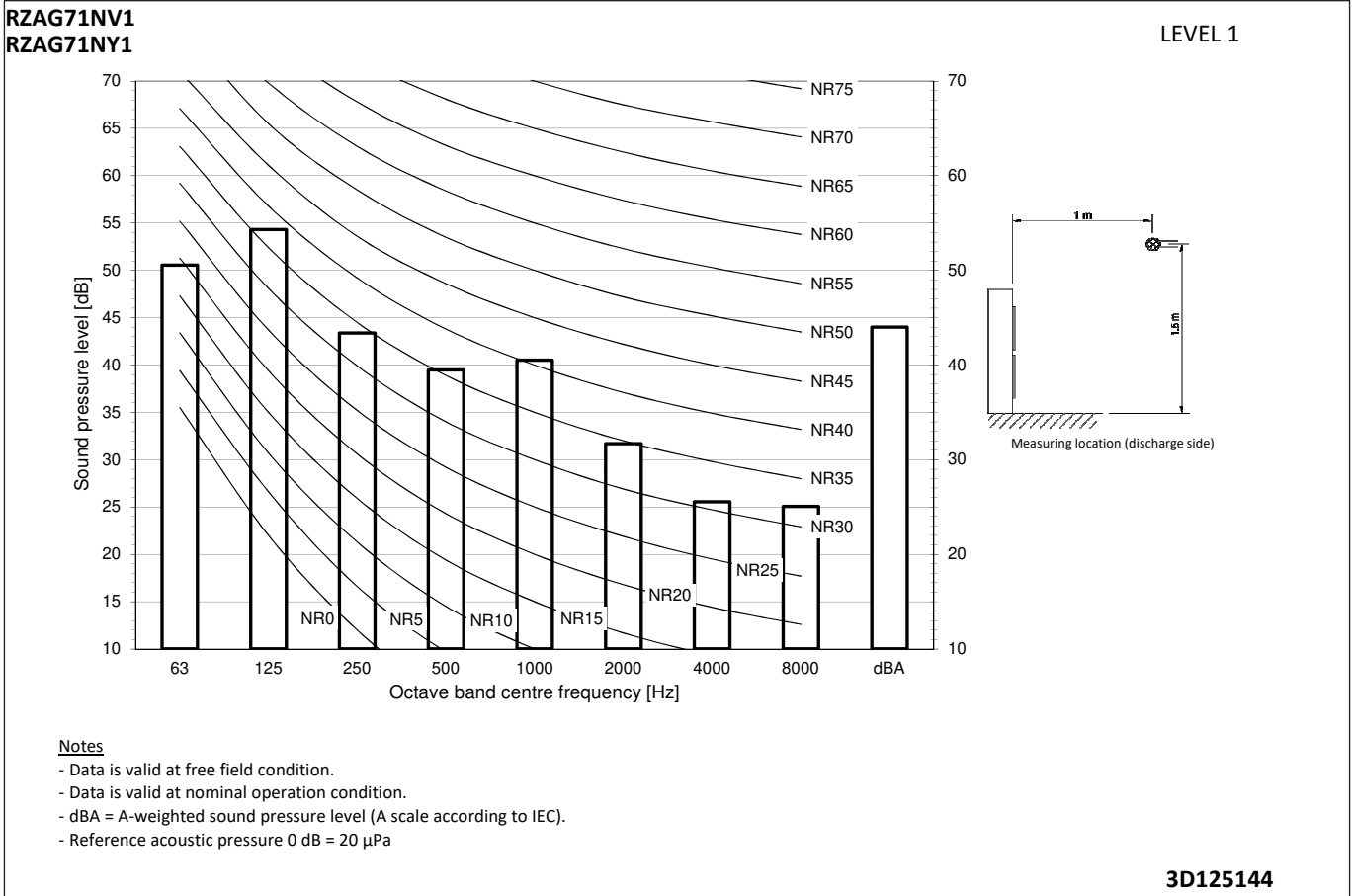
11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 1



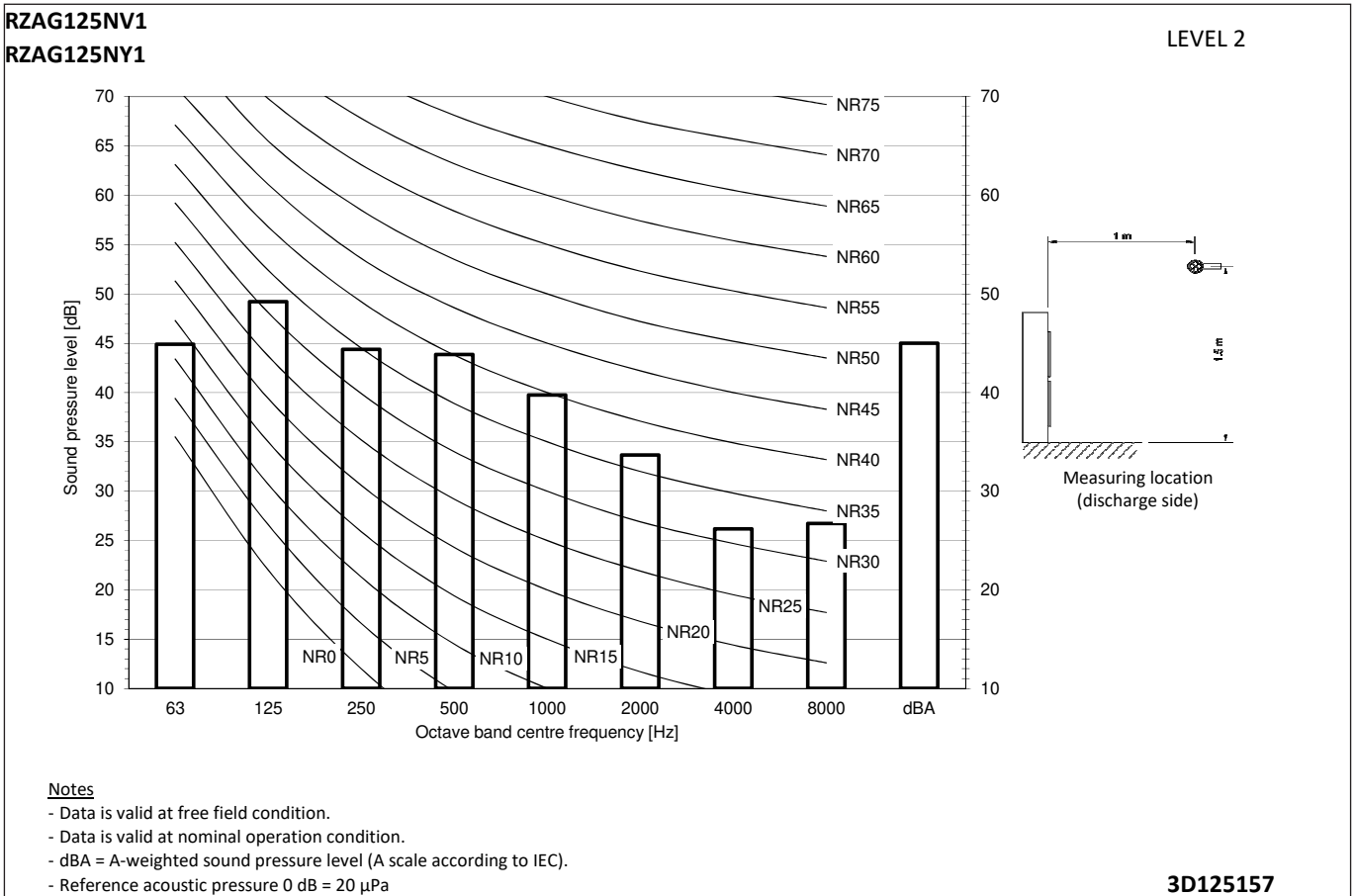
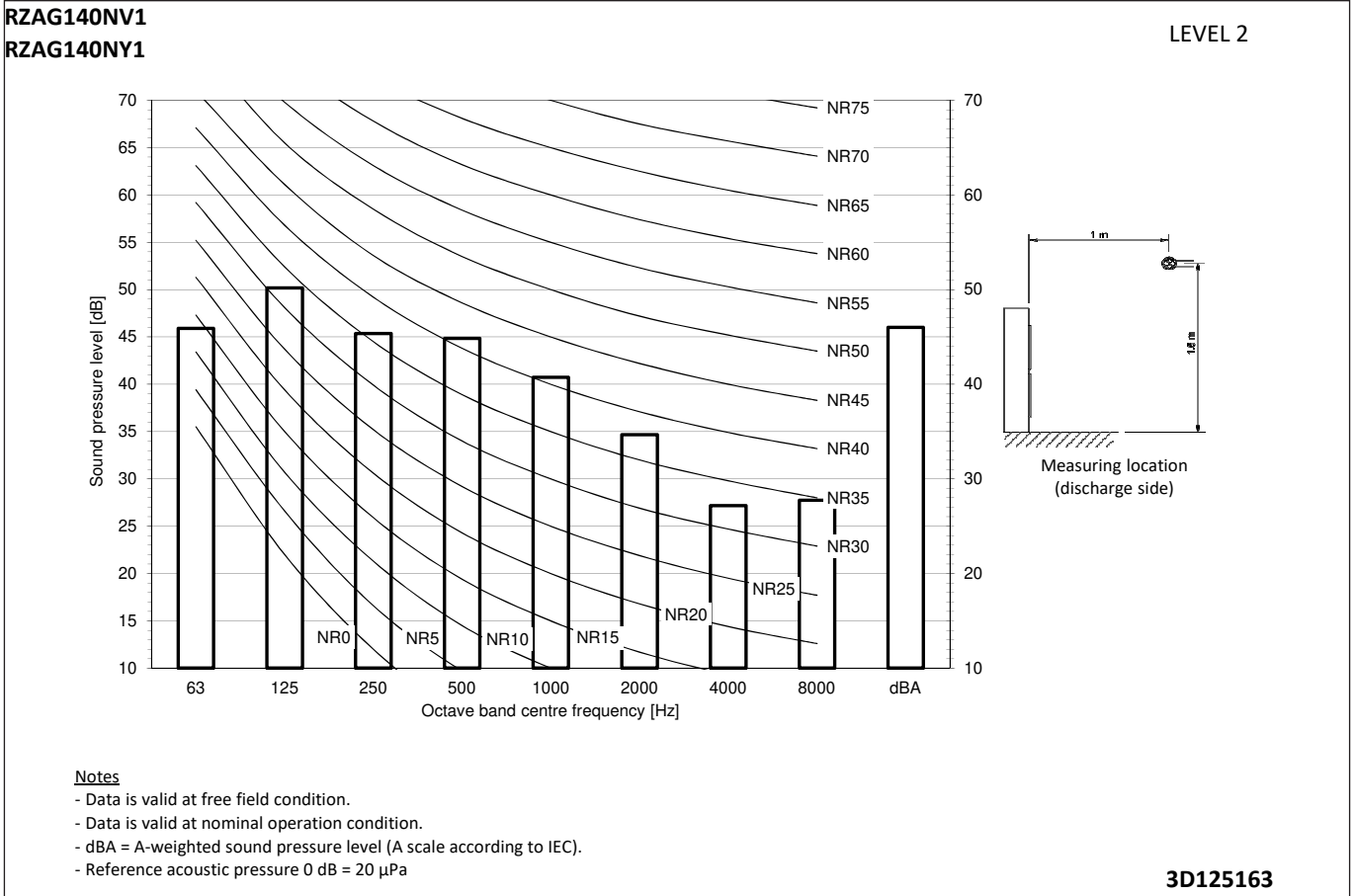
11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode Level 1



11 Sound data

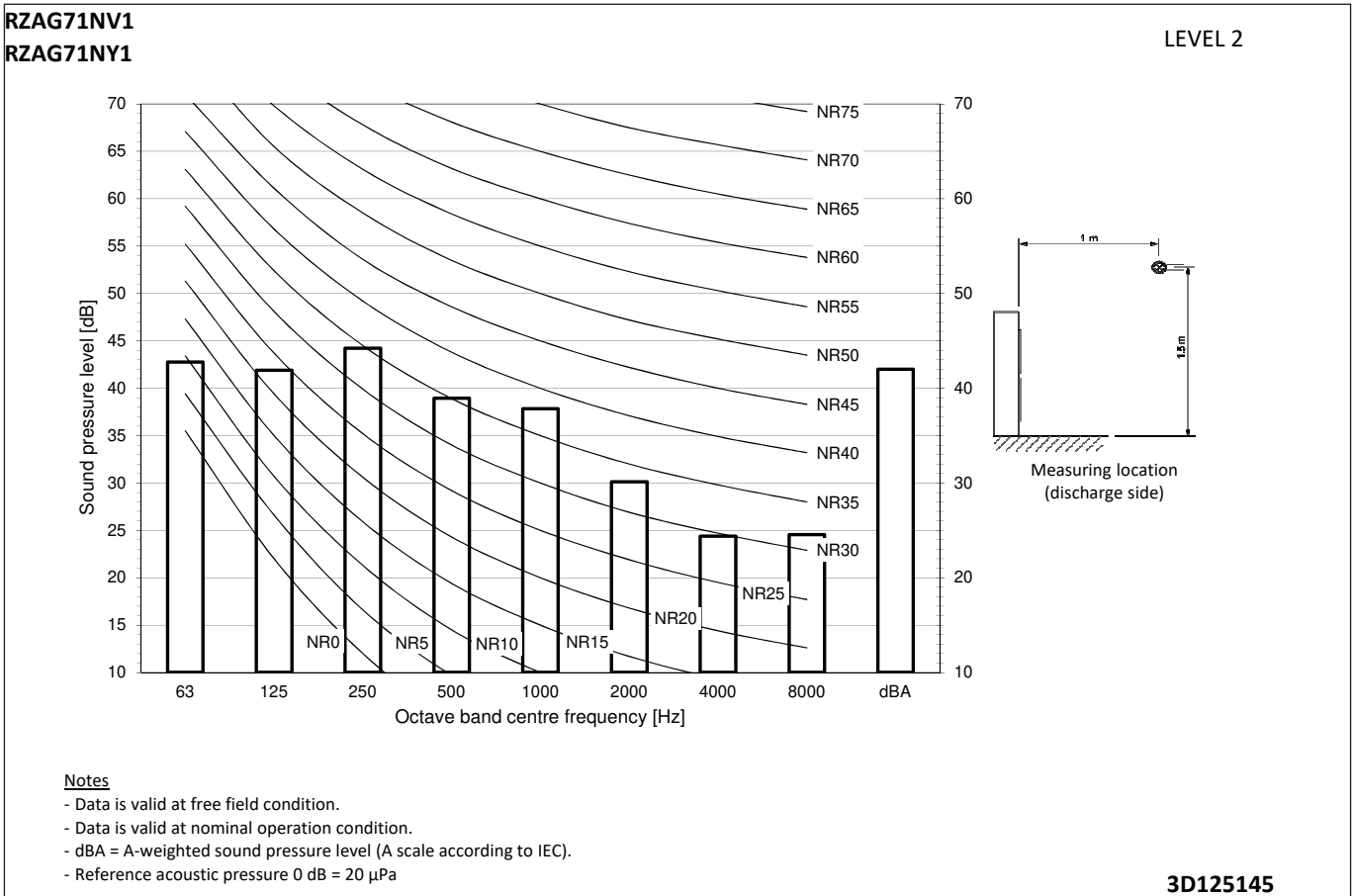
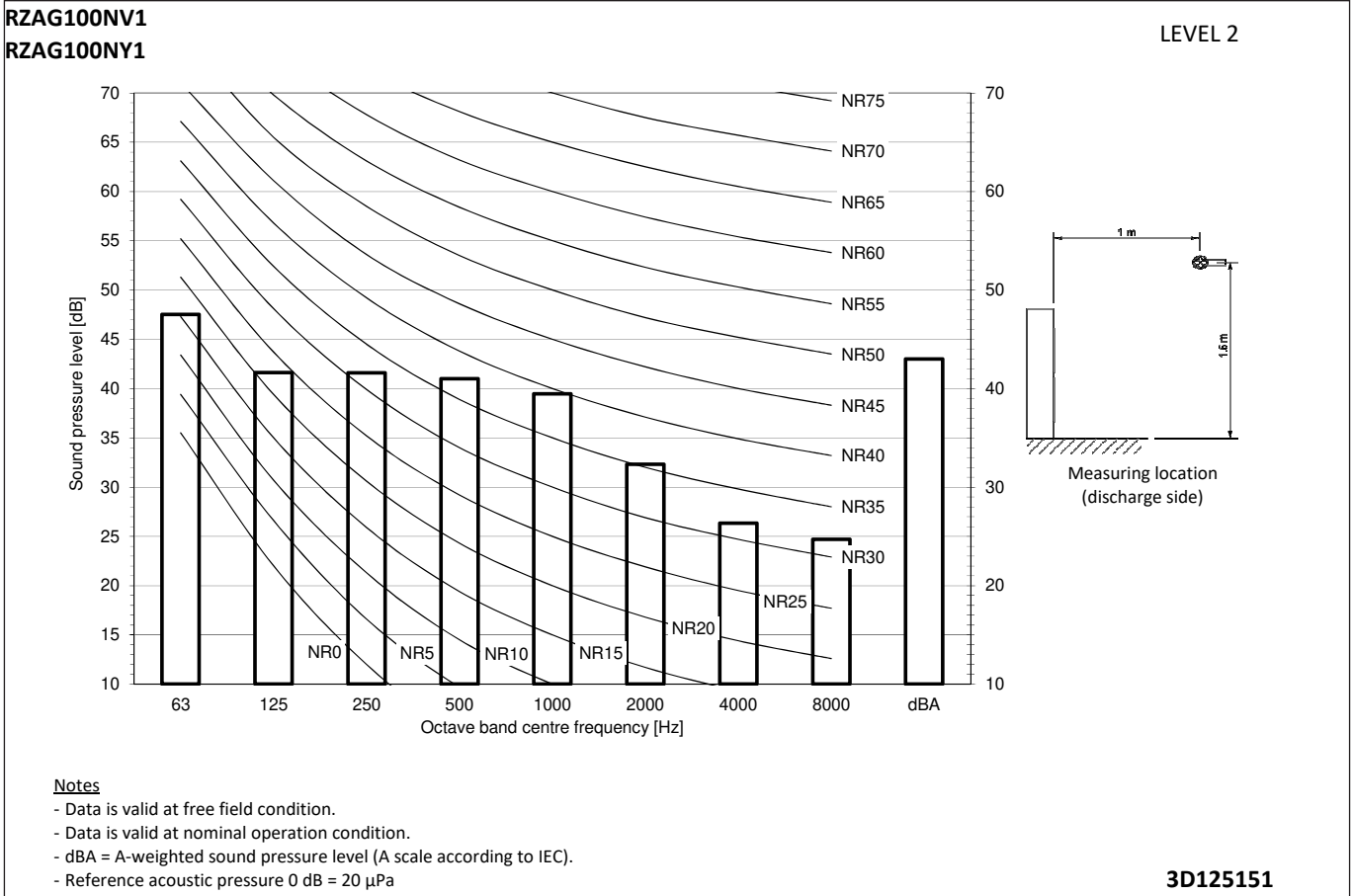
11 - 5 Sound Pressure Spectrum Quiet Mode Level 2



11 Sound data

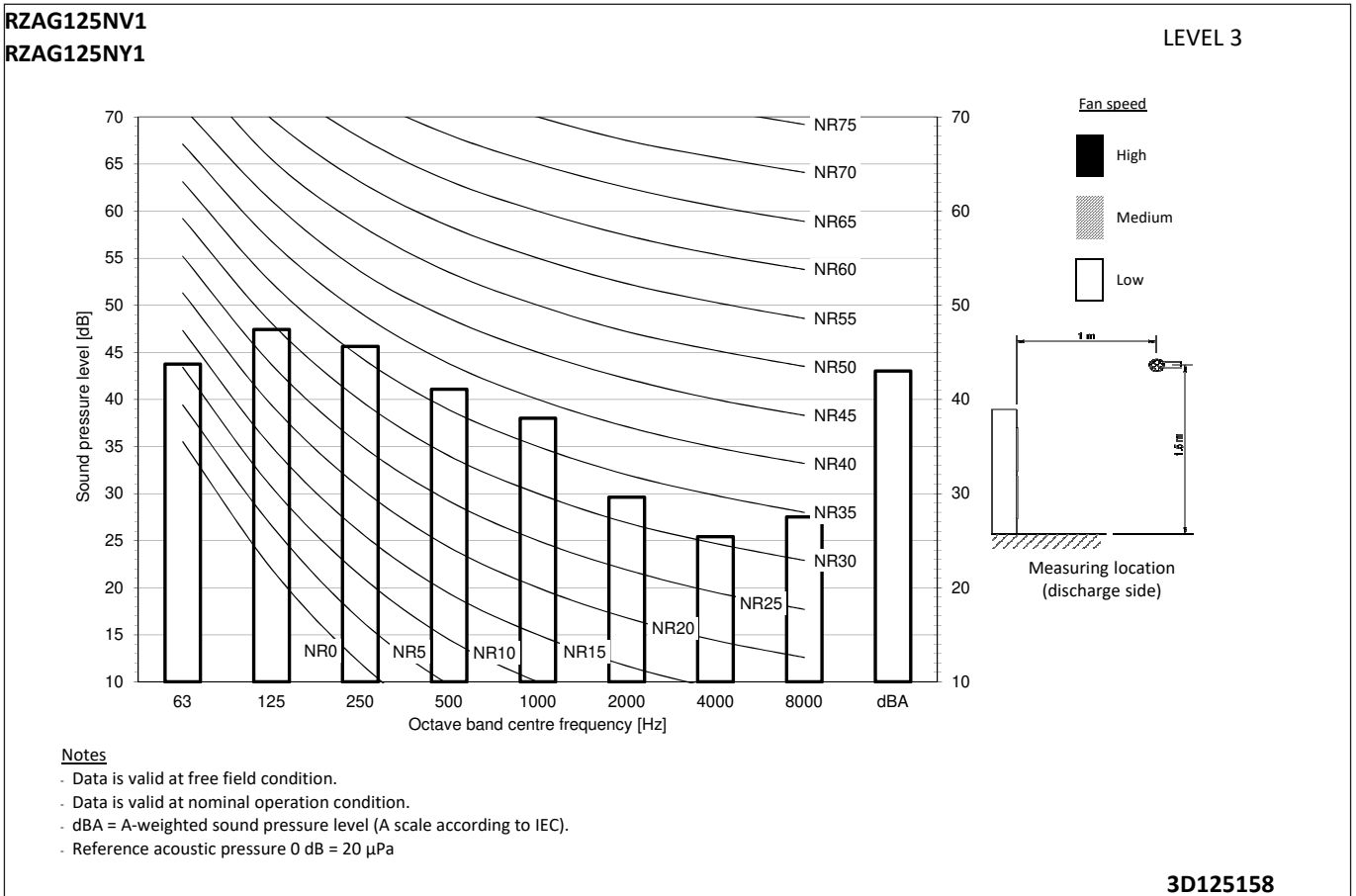
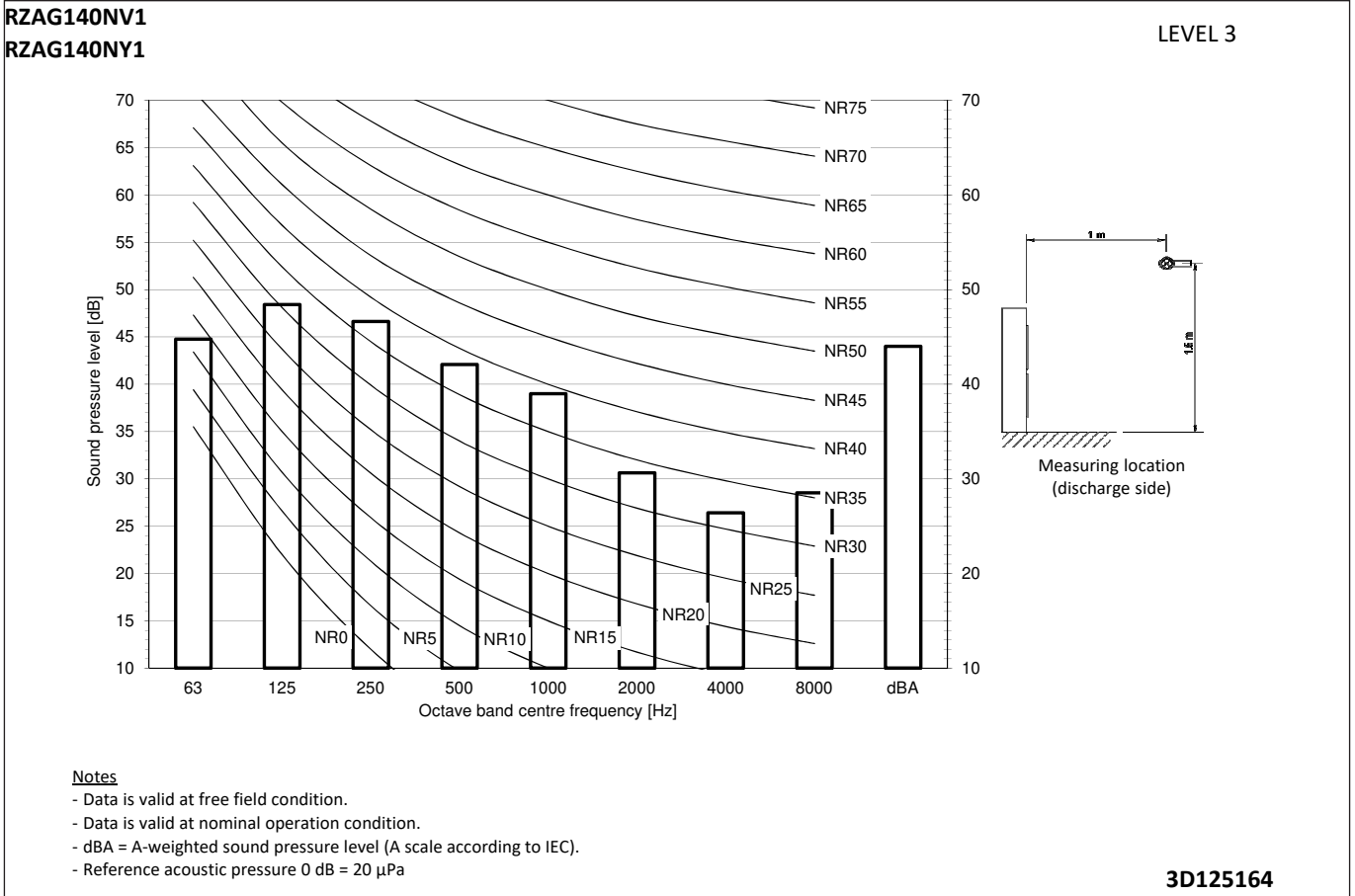
11 - 5 Sound Pressure Spectrum Quiet Mode Level 2

11



11 Sound data

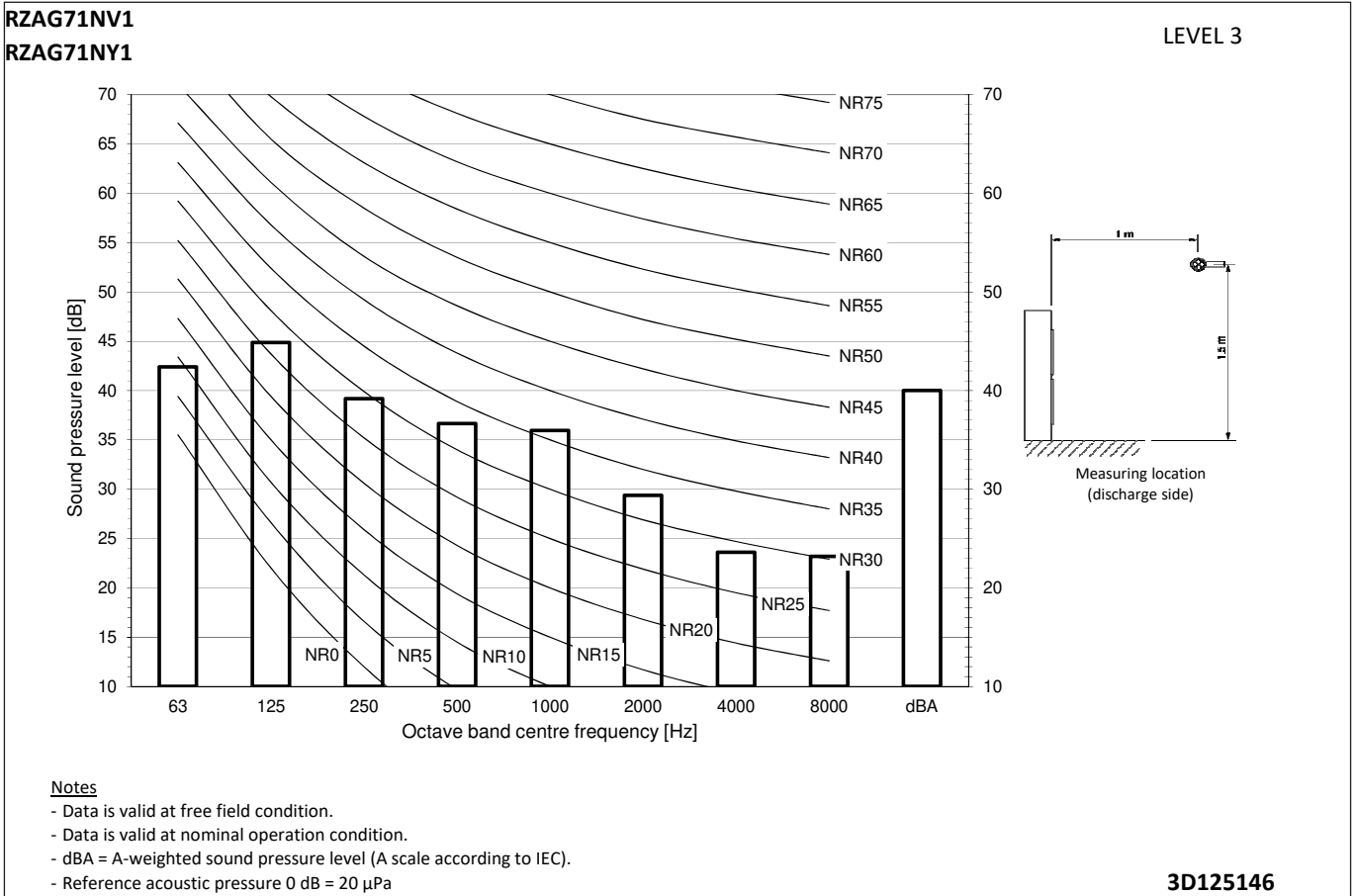
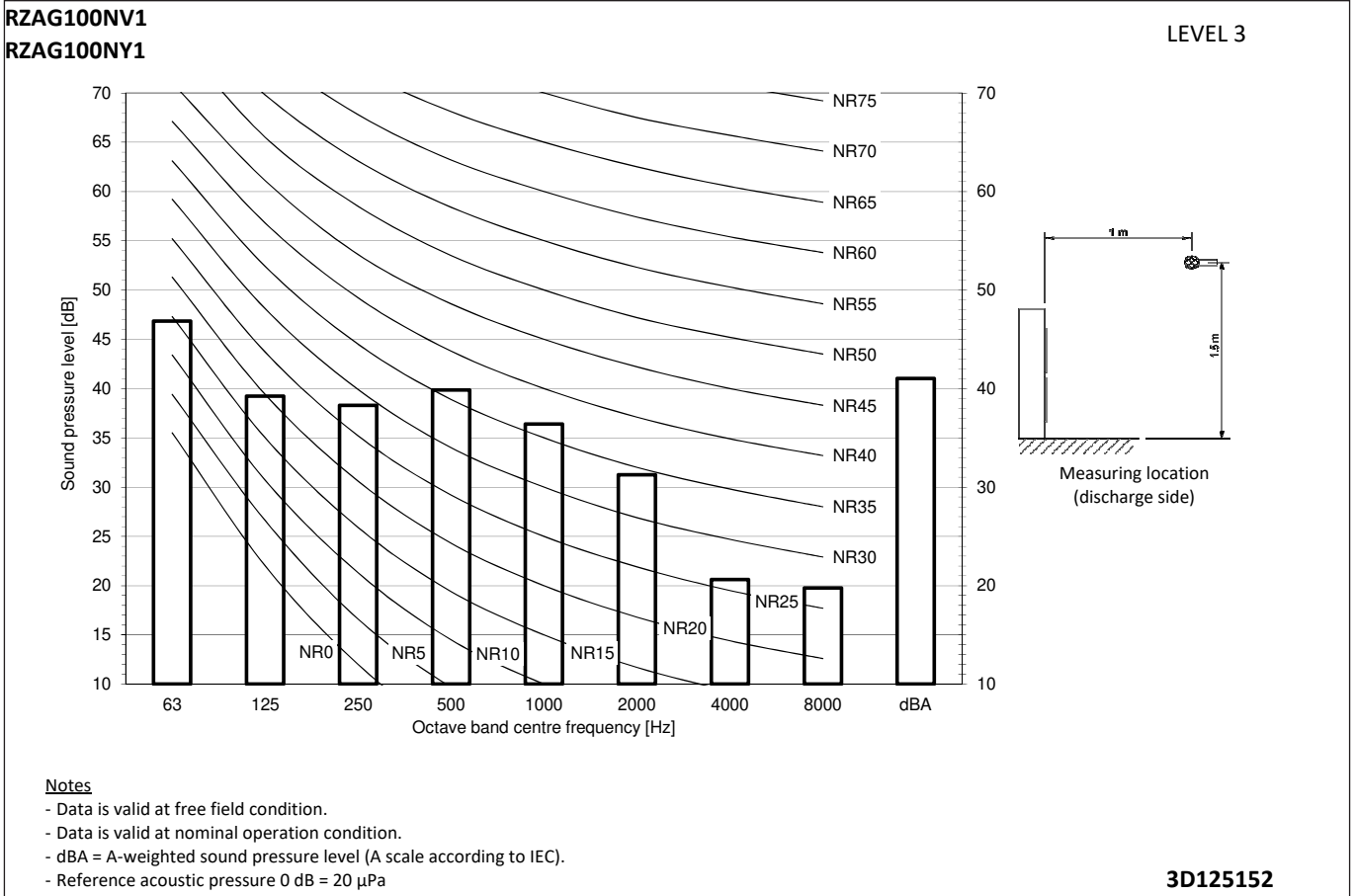
11 - 6 Sound Pressure Spectrum Quiet Mode Level 3



11 Sound data

11 - 6 Sound Pressure Spectrum Quiet Mode Level 3

11




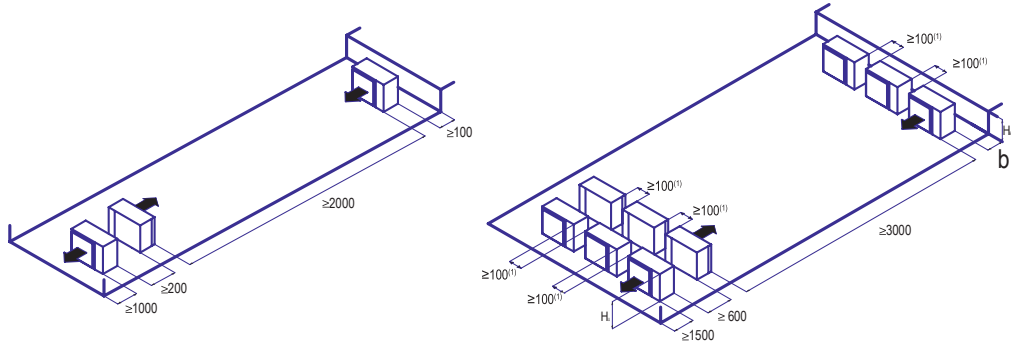
12 Installation

12 - 1 Installation Method

RZAG-NV1
RZAG-NY1

Multiple rows of units ()

Multiple rows of units ()



| Hb Hu | b (mm) |
|------------------------------|--------------|
| $Hb \leq \frac{1}{2}Hu$ | $b \geq 250$ |
| $\frac{1}{2}Hu < Hb \leq Hu$ | $b \geq 300$ |
| $Hb > Hu$ | ⊘ |

- (1) For better serviceability, use a distance ≥ 250 mm
- ⊘ Not allowed

1D128513

12 Installation

12 - 1 Installation Method

12

RZAG-NV1
RZAG-NY1

Single unit (■) | Single row of units (■ ■ ■)

Suction side

In the illustration below, the service space at the suction side is based on 35°C DB and cooling operation. Foresee more space in the following cases:

- When the suction side temperature regularly exceeds this temperature.
- When the heat load of the outdoor units is expected to regularly exceed the maximum operating capacity.

Discharge side

Take refrigerant piping work into account when positioning the units. If your lay out does not match with any of the layouts below, contact your dealer.

Single unit (■) | Single row of units (■ ■ ■)

| | A-E | Hb Hd Hu | (mm) | | | | | | | | |
|---------|---------|---------------|---------------|-------|--------|--------|--------|----------------|----------------|--|-----|
| | | | a | b | c | d | e | e _B | e _D | | |
| | B | - | | ≥ 100 | | | | | | | |
| | A,B,C | - | ≥ 100(1) | ≥ 100 | ≥ 100 | | | | | | |
| | B,E | - | | ≥ 100 | | | ≥ 1000 | | ≤ 500 | | |
| | A,B,C,E | - | ≥ 150(1) | ≥ 150 | ≥ 150 | | ≥ 1000 | | ≤ 500 | | |
| | D | - | | | | | ≥ 500 | | | | |
| | D,E | - | | | | | ≥ 500 | ≥ 1000 | ≤ 500 | | |
| | B,D | Hd > Hu | | ≥ 100 | | ≥ 500 | | | | | |
| | | | Hd ≤ Hu | ≥ 100 | | ≥ 500 | | | | | |
| | B,D,E | Hd > Hu | Hb ≤ ½Hu | ≥ 250 | | ≥ 750 | ≥ 1000 | ≤ 500 | | | 1 |
| | | | ½Hu > Hb ≤ Hu | ≥ 250 | | ≥ 1000 | ≥ 1000 | ≤ 500 | | | |
| Hb > Hu | | | | | ⊘ | | | | | | |
| Hd ≤ Hu | | Hd ≤ ½Hu | ≥ 100 | | ≥ 1000 | ≥ 1000 | ≤ 500 | | | | |
| | | ½Hu < Hd ≤ Hu | ≥ 200 | | ≥ 1000 | ≥ 1000 | ≤ 500 | | | | |
| | Hd > Hu | | | | ⊘ | | | | | | |
| | A,B,C | - | ≥ 200(1) | ≥ 300 | ≥ 1000 | | | | | | |
| | A,B,C,E | - | ≥ 200(1) | ≥ 300 | ≥ 1000 | | ≥ 1000 | | ≤ 500 | | |
| | D | - | | | | ≥ 1000 | | | | | |
| | D,E | - | | | | ≥ 1000 | ≥ 1000 | ≤ 500 | | | |
| | B,D | Hd > Hu | | ≥ 300 | | ≥ 1000 | | | | | 1+2 |
| | | | Hd ≤ Hu | | | | | | | | |
| | | | Hd ≤ ½Hu | ≥ 250 | | ≥ 1500 | | | | | |
| | B,D,E | Hd > Hu | Hb ≤ ½Hu | ≥ 300 | | ≥ 1000 | ≥ 1000 | ≤ 500 | | | |
| | | | ½Hu < Hb ≤ Hu | ≥ 300 | | ≥ 1250 | ≥ 1000 | ≤ 500 | | | |
| | | | Hb > Hu | | | ⊘ | | | | | |
| Hd ≤ Hu | | Hd ≤ ½Hu | ≥ 250 | | ≥ 1500 | ≥ 1000 | ≤ 500 | | | | |
| | | ½Hu < Hd ≤ Hu | ≥ 300 | | ≥ 1500 | ≥ 1000 | ≤ 500 | | | | |
| | Hd > Hu | | | | ⊘ | | | | | | |

(1) For better serviceability, use a distance ≥ 250 mm

A,B,C,D Obstacles (walls/baffle plates)

E Obstacle (roof)

a,b,c,d,e Minimum service space between the unit and obstacles A, B, C, D and E

e_B Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle B

e_D Maximum distance between the unit and the edge of obstacle E, in the direction of obstacle D

Hu Height of the unit

Hb,Hd Height of obstacles B and D

1 Seal the bottom of the installation frame to prevent discharged air from flowing back to the suction side through the bottom of the unit.

2 Maximum two units can be installed.

⊘ Not allowed

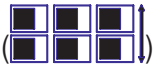
1D128513

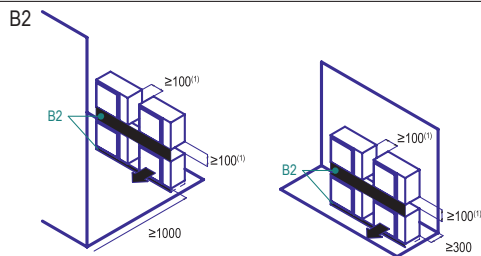
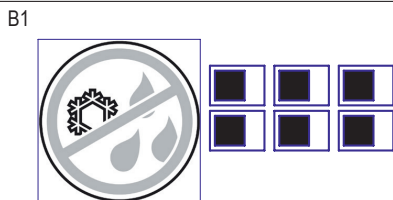
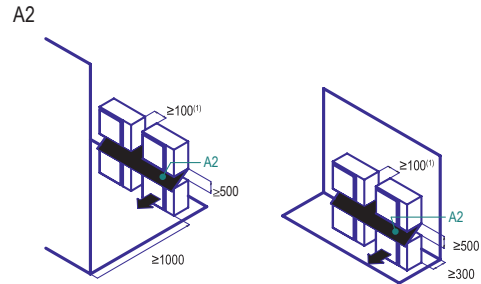
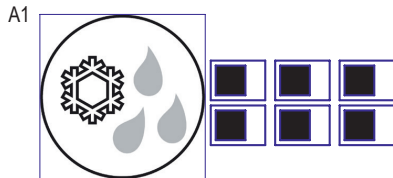
12 Installation

12 - 1 Installation Method

RZAG-NV1
RZAG-NY1

Stacked units (max.2 levels) 

Stacked units (max.2 levels) 



- (1) For better serviceability, use a distance ≥ 250 mm
- A1=>A2 (A1) If there is danger of drainage dripping and freezing between the upper and lower units...
(A2) Then install a roof between the upper and lower units. Install the upper unit high enough above the lower unit to prevent ice buildup at the upper unit's bottom plate.
- B1=>B2 (B1) If there is no danger of drainage dripping and freezing between the upper and lower units...
(B2) Then it is not required to install a roof, but seal the gap between the upper and lower units to prevent discharged air from flowing back to the suction side through the bottom of the unit.

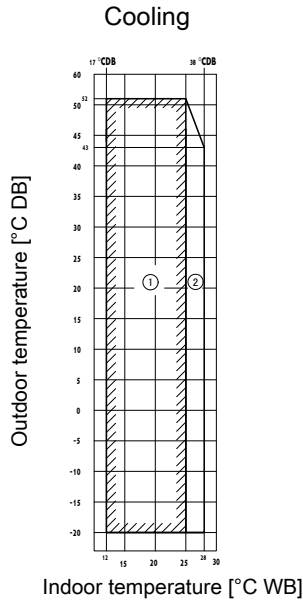
1D128513

13 Operation range

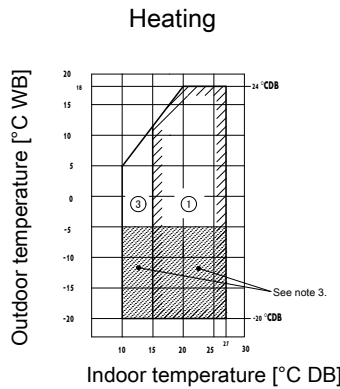
13 - 1 Operation Range

13

RZAG-NV1
RZAG-NY1



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

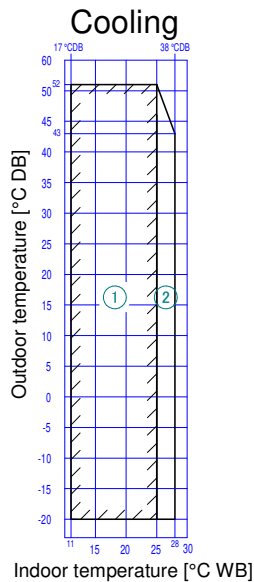


Notes

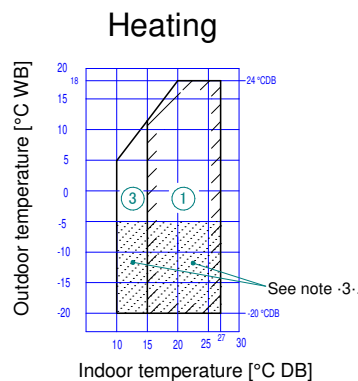
1. Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
2. To reduce the freeze-up operation (indoor de-icing) frequency, it is recommended to install the outdoor unit in a location not exposed to wind.
3. If the unit is selected to operate at ambient temperature < -5°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



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



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°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

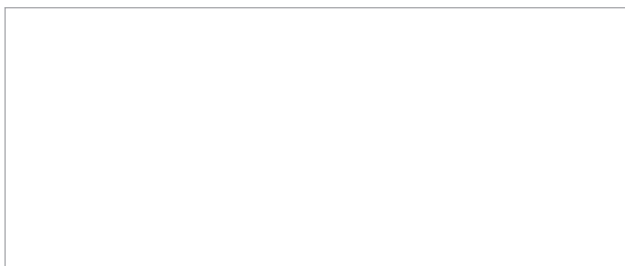
Recommended combinations

| 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) | | | | | | | |
|--------------|---------------|---------|---------|---------|---------------|--------|--------|--------|--------------|---------|---------|-------------------|-------|-------|-------|-------------------------------|-------|-------|------------------------------|--------|--------|-------------------|-------|-----------------|-------|--------|--------|-------|--------|--------|---|
| | FCAHG71 | 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 | | | | | | | | | | 4 | | | | | | | | | | | | | | | | P |
| RZAG140N7V1B | RZAG140N7Y1B | | | P | 4 | | | | | | | | | | 4 | | | | | | | | | | | | | | | | P |

| Sky Air | Floor standing type | | | | Slim duct | | Ceiling-suspended | | | | | | Floor standing type | |
|--------------|---------------------|--------|--------|--------|-----------|--------|-------------------|-------|-------|-------|--------|--------|---------------------|--------|
| | FVA71 | FVA100 | FVA125 | FVA140 | FDXM85 | 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

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