



Air Conditioning Technical Data

Pair, Twin, Triple, double twin



EEEN15-100

RZQSG-L(8)Y1

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RZQSG-L(8)Y1

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1 Features

Technology and comfort combined for commercial applications

- Seasonal classic series already comply with EU's 2014 Eco-Design requirements
- Top efficiency: - compressor that offers substantial efficiency improvements - control logic that optimises efficiency at the most frequently encountered operating conditions and that optimises the auxiliary modes (when the unit is not active) - heat exchangers that optimise the refrigerant flow at the most frequent operating conditions (temperature and load) - via improved nominal performances
- Re-use of existing R-22 or R-407C technology
- Guarantees operation in heating mode down to -15°C
- Maximum piping length up to 50m, minimum piping length is 5m.
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Seasonal efficiency, optimized for all seasons.
- Units optimized for seasonal efficiency give an indication on how efficient an air conditioner operates over an entire heating or cooling season.
- Compatibility with D-BACS



Inverter



Auto cooling-
heating
changeover

2 Specifications

| 2-1 Capacity and Power input | | | | FBQ100D/RZQSG100L8Y1 | FBQ125D/RZQSG125L8Y1 | FBQ140D/RZQSG140LY1 | |
|--|---------------------------|---------------------------|-----|----------------------|----------------------|---------------------|-------|
| Indoor unit | | | | FBQ100D | FBQ125D | FBQ140D | |
| Outdoor unit | | | | RZQSG100L8Y1 | RZQSG125L8Y1 | RZQSG140LY1 | |
| Cooling capacity | Nom. | | kW | 9.5 (1) | 12.0 (1) | 13.4 (1) | |
| Heating capacity | Nom. | | kW | 10.80 (1) | 13.50 (1) | 15.50 (1) | |
| Power input | Cooling | Nom. | kW | 2.84 (1) | 3.72 (1) | 4.38 (1) | |
| | Heating | Nom. | kW | 2.94 (1) | 3.72 (1) | 4.56 (1) | |
| Seasonal efficiency (according to EN14825) | Cooling | Energy label | | A+ | A | - | |
| | | Pdesign | kW | 9.50 | 12.00 | - | |
| | | SEER | | 5.61 | 5.47 | - | |
| | | Annual energy consumption | kWh | 593 | 768 | - | |
| | Heating (Average climate) | Energy label | | A+ | | - | |
| | | Pdesign | kW | 7.60 | | - | |
| | | SCOP | | 4.15 | 4.01 | - | |
| | | Annual energy consumption | kWh | 2,564 | 2,653 | - | |
| Nominal efficiency | EER | | | 3.35 (2) | 3.23 (2) | 3.06 (2) | |
| | COP | | | 3.67 (2) | 3.63 (2) | 3.40 (2) | |
| | Annual energy consumption | | | kWh | 1,418 | 1,858 | 2,190 |
| | Energy label | Cooling | | | A | | - |
| | | Heating | | | A | | - |

Notes

(1) Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

(2) EER/COP according to Eurovent 2012, for use outside EU only

| 2-2 Capacity and Power input | | | | FCQG100F/RZQSG100L8Y1 | FCQG125F/RZQSG125L8Y1 | FCQG140F/RZQSG140LY1 | |
|--|---------------------------|---------------------------|-----|-----------------------|-----------------------|----------------------|-------|
| Cooling capacity | Nom. | | kW | 9.5 | 12.0 | 13.4 | |
| Heating capacity | Nom. | | kW | 10.8 | 13.5 | 15.5 | |
| Power input | Cooling | Nom. | kW | 2.88 | 3.74 | 4.45 | |
| | Heating | Nom. | kW | 3.05 | 3.96 | 4.54 | |
| Seasonal efficiency (according to EN14825) | Cooling | Energy label | | A++ | A | - | |
| | | Pdesign | kW | 9.5 | 12 | - | |
| | | SEER | | 6.5 | 5.3 | - | |
| | | Annual energy consumption | kWh | 512 | 793 | - | |
| | Heating (Average climate) | Energy label | | A+ | | - | |
| | | Pdesign | kW | 7.6 | 8.03 | - | |
| | | SCOP | | 4.1 | 4.01 | - | |
| | | Annual energy consumption | kWh | 2,596 | 2,804 | - | |
| Nominal efficiency | EER | | | 3.30 | 3.21 | 3.01 | |
| | COP | | | 3.54 | 3.41 | | |
| | Annual energy consumption | | | kWh | 1,440 | 1,870 | 2,225 |
| | Energy label | Cooling | | | A | | - |
| | | Heating | | | B | | - |

Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

| 2-3 Capacity and Power input | | | | FAQ100C/RZQSG100L8Y1 |
|------------------------------|---------|------|----|----------------------|
| Cooling capacity | Nom. | | kW | 9.5 |
| Heating capacity | Nom. | | kW | 10.8 |
| Power input | Cooling | Nom. | kW | 3.16 |
| | Heating | Nom. | kW | 3.17 |

2 Specifications

2

| 2-3 Capacity and Power input | | | | FAQ100C/RZQSG100L8Y1 | |
|--|---------------------------|---------------------------|-------|----------------------|--|
| Seasonal efficiency (according to EN14825) | Cooling | Energy label | | A+ | |
| | | Pdesign | kW | 9.5 | |
| | | SEER | | 5.61 | |
| | | Annual energy consumption | kWh | 593 | |
| | Heating (Average climate) | Energy label | | A+ | |
| | | Pdesign | kW | 6.81 | |
| | | SCOP | | 4.01 | |
| | | Annual energy consumption | kWh | 2,378 | |
| Nominal efficiency | EER | | 3.01 | | |
| | COP | | 3.41 | | |
| | Annual energy consumption | kWh | 1,580 | | |
| | Energy label | Cooling | | B | |
| | | Heating | | B | |

Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

| 2-4 Capacity and Power input | | | | FHQ100C/RZQSG100L8Y1 | FHQ125C/RZQSG125L8Y1 | FHQ140C/RZQSG140LY1 |
|--|---------------------------|---------------------------|-------|----------------------|----------------------|---------------------|
| Cooling capacity | Nom. | kW | 9.5 | 12.0 | 13.4 | |
| Heating capacity | Nom. | kW | 10.8 | 13.5 | 15.5 | |
| Power input | Cooling | Nom. | kW | 2.96 | 4.15 | 4.45 |
| | Heating | Nom. | kW | 2.99 | 3.73 | 4.54 |
| Seasonal efficiency (according to EN14825) | Cooling | Energy label | | A+ | | - |
| | | Pdesign | kW | 9.5 | 12 | - |
| | | SEER | | 5.61 | | - |
| | | Annual energy consumption | kWh | 593 | 749 | - |
| | Heating (Average climate) | Energy label | | A | A+ | - |
| | | Pdesign | kW | 7.6 | | - |
| | | SCOP | | 3.91 | 4.01 | - |
| | | Annual energy consumption | kWh | 2,722 | 2,654 | - |
| Nominal efficiency | EER | | 3.21 | 2.89 | 3.01 | |
| | COP | | 3.61 | 3.62 | 3.41 | |
| | Annual energy consumption | kWh | 1,480 | 2,075 | 2,225 | |
| | Energy label | Cooling | | A | C | - |
| | | Heating | | A | | - |

Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

| 2-5 Capacity and Power input | | | | FDQ125C/RZQSG125L8Y1 | |
|------------------------------|---------|------|------|----------------------|--|
| Cooling capacity | Nom. | kW | 12.0 | | |
| Heating capacity | Nom. | kW | 13.5 | | |
| Power input | Cooling | Nom. | kW | 3.74 | |
| | Heating | Nom. | kW | 3.85 | |

4

2 Specifications

| 2-5 Capacity and Power input | | | | FDQ125C/RZQSG125L8Y1 | |
|--|---------------------------|---------------------------|------|----------------------|--|
| Seasonal efficiency (according to EN14825) | Cooling | Energy label | | A | |
| | | Pdesign | kW | 12 | |
| | | SEER | | 5.2 | |
| | | Annual energy consumption | kWh | 808 | |
| | Heating (Average climate) | Energy label | | A | |
| | | Pdesign | kW | 7.6 | |
| | | SCOP | | 3.9 | |
| | | Annual energy consumption | kWh | 2,729 | |
| Nominal efficiency | EER | | 3.21 | | |
| | COP | | 3.51 | | |
| | Annual energy consumption | | kWh | 1,870 | |
| | Energy label | Cooling | | A | |
| | | Heating | | B | |

Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

| 2-6 Capacity and Power input | | | | FCQHG100F/RZQSG100L8Y1 | FCQHG125F/RZQSG125L8Y1 | FCQHG140F/RZQSG140LY1 |
|--|---------------------------|---------------------------|------|------------------------|------------------------|-----------------------|
| Cooling capacity | Nom. | kW | | 9.5 | 12.0 | 13.4 |
| Heating capacity | Nom. | kW | | 10.8 | 13.5 | 15.5 |
| Power input | Cooling | Nom. | kW | 2.57 | 3.71 | 4.17 |
| | Heating | Nom. | kW | 2.51 | 3.60 | 4.29 |
| Seasonal efficiency (according to EN14825) | Cooling | Energy label | | A++ | A | - |
| | | Pdesign | kW | 9.5 | 12 | - |
| | | SEER | | 6.7 | 5.4 | - |
| | | Annual energy consumption | kWh | 497 | 778 | - |
| | Heating (Average climate) | Energy label | | A+ | | - |
| | | Pdesign | kW | 8.03 | | - |
| | | SCOP | | 4.3 | 4.1 | - |
| | | Annual energy consumption | kWh | 2,615 | 2,742 | - |
| Nominal efficiency | EER | | 3.70 | 3.23 | 3.21 | |
| | COP | | 4.30 | 3.75 | 3.61 | |
| | Annual energy consumption | | kWh | 1,285 | 1,855 | 2,085 |
| | Energy label | Cooling | | A | | - |
| | | Heating | | A | | - |

Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

| 2-7 Capacity and Power input | | | | FVQ100C/RZQSG100L8Y1 | FVQ125C/RZQSG125L8Y1 | FVQ140C/RZQSG140LY1 |
|------------------------------|---------|------|----|----------------------|----------------------|---------------------|
| Cooling capacity | Nom. | kW | | 9.5 | 12.0 | 13.4 |
| Heating capacity | Nom. | kW | | 10.8 | 13.5 | 15.5 |
| Power input | Cooling | Nom. | kW | 2.96 | 4.27 | 4.45 |
| | Heating | Nom. | kW | 2.99 | 3.96 | 4.54 |

2 Specifications

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| 2-7 Capacity and Power input | | | | FVQ100C/RZQSG100L8Y1 | FVQ125C/RZQSG125L8Y1 | FVQ140C/RZQSG140LY1 |
|---|---------------------------|---------------------------|------|----------------------|----------------------|---------------------|
| Seasonal efficiency (according to EN14825) | Cooling | Energy label | | A | | - |
| | | Pdesign | kW | 9.5 | 12 | - |
| | | SEER | | 5.5 | | - |
| | | Annual energy consumption | kWh | 605 | 764 | - |
| | Heating (Average climate) | Energy label | | A+ | A | - |
| | | Pdesign | kW | 7.6 | | - |
| | | SCOP | | 4.01 | 3.85 | - |
| | | Annual energy consumption | kWh | 2,654 | 2,764 | - |
| Nominal efficiency | EER | | 3.21 | 2.81 | 3.01 | |
| | COP | | 3.61 | 3.41 | | |
| | Annual energy consumption | | kWh | 1,480 | 2,135 | 2,225 |
| | Energy label | Cooling | | A | C | - |
| | | Heating | | A | B | - |

Notes

EER/COP according to Eurovent 2012, for use outside EU only

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load

| 2-8 Technical Specifications | | | | | RZQSG100L8Y1 | RZQSG125L8Y1 | RZQSG140LY1 | |
|------------------------------|---------------------|-----------|-----------|--------|--------------------------------------|--------------|-------------|----|
| Capacity control | Method | | | | Inverter controlled | | | |
| Casing | Colour | | | | Ivory white | | | |
| | Material | | | | Painted galvanized steel plate | | | |
| Dimensions | Unit | Height | mm | | 990 | | 1,430 | |
| | | Width | mm | | 940 | | | |
| | | Depth | mm | | 320 | | | |
| | Packed unit | Height | mm | | 1,170 | | 1,610 | |
| | | Width | mm | | 1,015 | | | |
| | | Depth | mm | | 422 | | | |
| Weight | Unit | | kg | | 82 | | 101 | |
| | Packed unit | | kg | | 94 | | 114 | |
| Heat exchanger | Fin | Type | | | WF fin | | | |
| | | Treatment | | | Anti-corrosion treatment (PE) | | | |
| Compressor | Quantity | | | | 1 | | | |
| | Type | | | | Hermetically sealed swing compressor | | | |
| | Starting method | | | | Inverter driven | | | |
| Fan | Type | | | | Propeller fan | | | |
| | Discharge direction | | | | Horizontal | | | |
| | Quantity | | | | 1 | | 2 | |
| | Air flow rate | Cooling | Nom. | m³/min | | 76 | 77 | 83 |
| | | | Super low | m³/min | | - | | |
| | | Heating | Nom. | m³/min | | 83 | | 62 |
| | | | Super low | m³/min | | - | | |
| Fan motor | Quantity | | | | 1 | | 2 | |
| | Model | | | | Brushless DC motor | | | |
| | Output | | W | | 200 | | 94 | |
| | Drive | | | | Direct drive | | | |
| | Speed | Cooling | Super low | rpm | | - | | |
| Heating | | | Super low | rpm | | - | | |
| Sound power level | Cooling | | dBA | | 69 | 70 | 69 | |
| | Heating | | dBA | | - | | | |

2 Specifications

| 2-8 Technical Specifications | | | | RZQSG100L8Y1 | RZQSG125L8Y1 | RZQSG140LY1 | |
|------------------------------|-------------------------------|----------|---|-----------------------------------|-------------------------|-------------|--|
| Sound pressure level | Cooling | Nom. | dBA | 53 | 54 | 53 | |
| | Heating | Nom. | dBA | 57 | 58 | 54 | |
| | Night quiet mode | Level 1 | dBA | 49 | | | |
| Operation range | Cooling | Ambient | Min. | °CDB -15 | | | |
| | | | Max. | °CDB 46 | | | |
| | Heating | Ambient | Min. | °CWB -15 | | | |
| | | | Max. | °CWB 15.5 | | | |
| Refrigerant | Type | | | R-410A | | | |
| | Charge | | | kg | 2.9 | 4.0 | |
| | | | | TCO ₂ eq | 6.1 | 8.4 | |
| | Control | | | Expansion valve (electronic type) | | | |
| | GWP | | | 2,087.5 | | | |
| Circuits | Quantity | | 1 | | | | |
| Refrigerant oil | Type | | | FVC50K | | | |
| | Charged volume | | | l | 0.9 | 1.35 | |
| Piping connections | Liquid | Quantity | | 1 | | | |
| | | Type | | Flare connection | | | |
| | | OD | mm | 9.52 | | | |
| | Gas | Quantity | | 1 | | | |
| | | Type | | Flare connection | | | |
| | | OD | mm | 15.9 | | | |
| | Drain | Quantity | | 5 | | | |
| | | Type | | Hole | | | |
| | | ID | mm | - | | | |
| | | OD | mm | 26 | | | |
| | Piping length | OU - IU | Min. | m | 5 | | |
| | | | Max. | m | 50 | | |
| | | System | Equivalent | m | 70 | | |
| | | | Chargeless | m | 30 | | |
| | Additional refrigerant charge | | | kg/m | See installation manual | | |
| Level difference | IU - OU | Max. | m | 30 | | | |
| | IU - IU | Max. | m | 0.5 | | | |
| Heat insulation | | | Both liquid and gas pipes | | | | |
| Defrost method | | | Reversed cycle | | | | |
| Defrost control | | | Sensor for outdoor heat exchanger temperature | | | | |
| Safety devices | Item | 01 | High pressure switch | | | | |
| | | 02 | Fan driver overload protector | | | | |
| | | 03 | Fuse | | | | |

| 2-9 Electrical Specifications | | | | RZQSG100L8Y1 | RZQSG125L8Y1 | RZQSG140LY1 |
|-------------------------------|----------------------------|-------------------|-------------------|--------------------------------------|--------------|-------------|
| Power supply | Name | | | Y1 | | |
| | Phase | | | 3N~ | | |
| | Frequency | | | Hz | 50 | |
| | Voltage | | | V | 380-415 | |
| | Voltage range | Min. | % | -10 | | |
| | | Max. | % | 10 | | |
| Current | Zmax | List | | Complies to EN61000-3-11 | | |
| | A | Recommended fuses | 20 | | | |
| Current - 50Hz | Maximum fuse amps (MFA) | | A | 20 | | |
| Current - 60Hz | Maximum fuse amps (MFA) | | A | - | | |
| Wiring connections | For power supply | Remark | | See installation manual outdoor unit | | |
| | For connection with indoor | Remark | | See installation manual outdoor unit | | |
| Power supply intake | | | Outdoor unit only | | | |

2 Specifications

Notes

PED: assembly = category I : excluded from scope of PED due to article 1, item 3.6 of 97/23/EC

See separate drawing for electrical data

Contains fluorinated greenhouse gases

2

3 Electrical data

3 - 1 Electrical Data

RZQSG-L(8)Y1

| Unit combination | | Minimum Ssc value (kVA) |
|------------------|----|-------------------------|
| FFQ35B9V1B | x3 | 936 |
| FFQ50B9V1B | x2 | 951 |
| FHQ35BWW1B | x3 | 977 |
| FHQ50BWW1B | x2 | 936 |
| FBQ35C8VEB | x3 | 1092 |
| FBQ50C8VEB | x2 | 1014 |
| FCQG35FVEB | x3 | 915 |
| FCQG50FVEB | x2 | 899 |
| FBQ100C8VEB | x1 | 962 |
| FCQG100FVEB | x1 | 905 |
| FCQHG100FVEB | x1 | 941 |
| FAQ100CVEB | x1 | 884 |
| FVQ100CVEB | x1 | 936 |
| FHQG100CVEB | x1 | 936 |
| FUQ100BWW1B | x1 | 925 |
| FFQ35B9V1B | x4 | 962 |
| FFQ50B9V1B | x3 | 993 |
| FFQ60B9V1B | x2 | 951 |
| FHQ35BWW1B | x4 | 1014 |
| FHQ50BWW1B | x3 | 977 |
| FHQ60BWW1B | x2 | 936 |
| FBQ35C8VEB | x4 | 1170 |
| FBQ50C8VEB | x3 | 1092 |
| FBQ60C8VEB | x2 | 1003 |
| FCQG35FVEB | x4 | 936 |
| FCQG50FVEB | x3 | 915 |
| FCQG60FVEB | x2 | 899 |
| FBQ125C8VEB | x1 | 993 |
| FCQG125FVEB | x1 | 925 |
| FCQHG125FVEB | x1 | 951 |
| FVQ125CVEB | x1 | 936 |
| FHQG125CVEB | x1 | 962 |
| FUQ125BWW1B | x1 | 925 |
| FDQ125C7VEB | x1 | 993 |

| Unit combination | | Minimum Ssc value (kVA) |
|------------------|----|-------------------------|
| FFQ35B9V1B | x4 | 962 |
| FFQ50B9V1B | x3 | 993 |
| FHQ35BWW1B | x4 | 1014 |
| FHQ50BWW1B | x3 | 977 |
| FBQ35C8VEB | x4 | 1170 |
| FBQ50C8VEB | x3 | 1092 |
| FCQG35FVEB | x4 | 936 |
| FCQG50FVEB | x3 | 915 |
| FCQG71FVEB | x2 | 910 |
| FCQHG71FVEB | x2 | 925 |
| FAQ71CVEB | x2 | 910 |
| FHQG71CVEB | x2 | 962 |
| FBQ71C8VEB | x2 | 1003 |
| FUQ71BWW1B | x2 | 936 |
| FBQ140C8VEB | x1 | 993 |
| FCQG140FVEB | x1 | 925 |
| FCQHG140FVEB | x1 | 951 |
| FVQ140CVEB | x1 | 951 |
| FHQG140CVEB | x1 | 977 |
| FFQ35B9V1B | x4 | 962 |
| FFQ50B9V1B | x3 | 993 |
| FHQ35BWW1B | x4 | 1014 |
| FHQ50BWW1B | x3 | 977 |
| FBQ35C8VEB | x4 | 1170 |
| FBQ50C8VEB | x3 | 1092 |
| FCQG35FVEB | x4 | 936 |
| FCQG50FVEB | x3 | 915 |
| FCQG71FVEB | x2 | 910 |
| FCQHG71FVEB | x2 | 925 |
| FAQ71CVEB | x2 | 910 |
| FHQG71CVEB | x2 | 962 |
| FBQ71C8VEB | x2 | 1003 |
| FBQ140C8VEB | x1 | 993 |
| FCQG140FVEB | x1 | 925 |
| FCQHG140FVEB | x1 | 951 |
| FVQ140CVEB | x1 | 951 |
| FHQG140CVEB | x1 | 977 |

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NOTES

- In accordance with EN/IEC 61000-3-12⁽¹⁾, it may be necessary to consult the distribution network operator to ensure that the equipment is connected only to a supply with $S_{sc}^{(2)} \geq$ minimum Ssc value.

- ⁽¹⁾ European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current > 16A and \leq 75A per phase.

- ⁽²⁾ Short-circuit power

3 Electrical data

3 - 1 Electrical Data

3

RZQSG100L8Y1

| Indoor | Outdoor | Phase - Hz - Power supply | Voltage range | MCA | TOCA | MFA | Comp | | OFM | | IFM | |
|-----------------|---------------|---------------------------|------------------------|------|------|-----|------|------|-----|-----|-----------|---------|
| | | | | | | | MSC | RLA | kW | FLA | kW | FLA |
| FCQG100EVEB | RZQSG100L8Y1B | 3N - 50Hz 380-415V | Min. 342V Max. 456V | 14,5 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,106 | 1,0 |
| FCQHG100FVEB | | | | 14,8 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,221 | 1,3 |
| FCQG35FVEB x3 | | | | 14,3 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,044x3 | 0,3x3 |
| FCQG50FVEB x2 | | | | 14,0 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,039x2 | 0,3x2 |
| FCQG100FVEB | | | | 14,1 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,117 | 0,7 |
| FFQ35C2VEB x3 | | | | 14,7 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,05x3 | 0,4x3 |
| FFQ50C2VEB x2 | | | | 14,2 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,05x2 | 0,4x2 |
| FDXS35F2VEB x3 | | | | 14,3 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,034x3 | 0,3x3 |
| FDXS50F2VEB9 x2 | | | | 14,5 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,06x2 | 0,5x2 |
| FBQ35C8VEB x3 | | | | 17,7 | — | 20 | — | 11,4 | 0,2 | 0,6 | 0,140x3 | 1,2x3 |
| FBQ50C8VEB x2 | | | | 16,2 | — | 20 | — | 11,4 | 0,2 | 0,6 | 0,140x2 | 1,2x2 |
| FBQ100C8VEB | | | | 15,2 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,350 | 1,6 |
| FAQ100CVEB | | | | 13,7 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,064 | 0,4 |
| FVQ100CVEB | | | | 14,7 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,238 | 1,2 |
| FHQ35CAVEB x3 | | | | 15,5 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,060 x 3 | 0,6 x 3 |
| FHQ50CAVEB x2 | | | | 14,7 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,060 x 2 | 0,6 x 2 |
| FHQ100CAVEB | | | | 14,8 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,160 | 1,3 |

SYMBOLS

| | |
|------|--|
| MCA | : Min. Circuit Amps. (A) |
| TOCA | : Total Over-Current Amps. (A) |
| MFA | : Max. Fuse Amps (See note 7) (A) |
| MSC | : Max. current during the starting compressor, (A) |
| RLA | : Rated Load Amps. (A) |
| OFM | : Outdoor Fan Motor. (A) |
| IFM | : Indoor Fan Motor. |
| FLA | : Full Load Amps. |
| kW | : Fan Motor Rated Output (kW) |

NOTES

- 1 RLA is based on the following conditions:
Cooling
Indoor temperature 27.0°CDB/19.0°CWB
Outdoor temperature 35.0°CDB
Heating
Indoor temperature 20.0°CDB
Outdoor temperature 7.0°CDB / 6.0°CWB
- 2 TOCA means the total value of each OC set.
- 3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- 4 Maximum allowable voltage variation between phases is 2%.
- 5 MCA represents maximum input current, MFA represents capacity which may accept MCA. (next lower standard fuse rating, min.15A)
- 6 Select wire size based on the larger value of MCA or TOCA.
- 7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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3 Electrical data

3 - 1 Electrical Data

| RZQSG125-140L(8)Y1 | | | | | | | | | | | | | | | |
|--------------------|---------------|-------------------------|------------------------|---------------|-----------------------|------------------------|------|------|-------------|---------|-----------|-------------|---------|---------|-------|
| Indoor | Outdoor | Phase - Hz/Power supply | Voltage range | | | | Comp | | OFM | | IFM | | | | |
| | | | | MCA | TOCA | MFA | MSC | RLA | kW | FLA | kW | FLA | | | |
| FCQG125EVEB | RZQSG125L8Y1B | 3N - 50Hz 380-415V | Min. 342V Max. 456V | 14,6 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,106 | 1,1 | | | |
| FCQHG125FVEB | | | | 15,0 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,244 | 1,4 | | | |
| FCQG35FVEB x4 | | | | 14,7 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,044x4 | 0,3x4 | | | |
| FCQG50FVEB x3 | | | | 14,3 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,039x3 | 0,3x3 | | | |
| FCQG60FVEB x2 | | | | 14,0 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,044x2 | 0,3x2 | | | |
| FCQG125FVEB | | | | 14,5 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,168 | 1,0 | | | |
| FFQ35C2VEB x4 | | | | 15,2 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,05x4 | 0,4x4 | | | |
| FFQ50C2VEB x3 | | | | 14,7 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,05x3 | 0,4x3 | | | |
| FFQ60C2VEB x2 | | | | 14,7 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,05x2 | 0,6x2 | | | |
| FDXS35F2VEB x4 | | | | 14,7 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,034x4 | 0,3x4 | | | |
| FDXS50F2VEB9 x3 | | | | 15,1 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,060x3 | 0,5x3 | | | |
| FDXS60F2VEB x2 | | | | 14,5 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,060x2 | 0,5x2 | | | |
| FBO35C8VEB x4 | | | | 19,2 | — | 20 | — | 11,4 | 0,2 | 0,6 | 0,140x4 | 1,2x4 | | | |
| FBO50C8VEB x3 | | | | 17,7 | — | 20 | — | 11,4 | 0,2 | 0,6 | 0,140x3 | 1,2x3 | | | |
| FBO60C8VEB x2 | | | | 16,0 | — | 20 | — | 11,4 | 0,2 | 0,6 | 0,350x2 | 1,1x2 | | | |
| FBO125C8VEB | | | | 15,8 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,350 | 2,1 | | | |
| FDO125C7VEB | | | | 15,8 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,350 | 2,1 | | | |
| FVQ125CVEB | | | | 14,7 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,238 | 1,2 | | | |
| FHQ35CAVEB x4 | | | | 16,2 | — | 20 | — | 11,4 | 0,2 | 0,6 | 0,060x4 | 0,6 x 4 | | | |
| FHQ50CAVEB x3 | | | | 15,5 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,060x3 | 0,6 x 3 | | | |
| FHQ60CAVEB x2 | | | | 14,7 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,091x2 | 0,8 x 2 | | | |
| FHQ125CAVEB | | | | 15,1 | — | 16 | — | 11,4 | 0,2 | 0,6 | 0,150 | 1,5 | | | |
| FCQG71EVEB x2 | | | | RZQSG140L7Y1B | 3N - 50Hz 380-415V | Min. 342V Max. 456V | 17,5 | — | 20 | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,048x2 | 0,4x2 |
| FCQG140EVEB | | | | | | | 17,9 | — | 20 | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,106 | 1,1 |
| FCQHG71FVEB x2 | 17,8 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,091x2 | 0,5x2 | | | |
| FCQHG140FVEB | 18,3 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,244 | 1,4 | | | |
| FCQG35FVEB x4 | 18,0 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,044x4 | 0,3x4 | | | |
| FCQG50FVEB x3 | 17,6 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,039x3 | 0,3x3 | | | |
| FCQG71FVEB x2 | 17,5 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,054x2 | 0,4x2 | | | |
| FCQG140FVEB | 17,8 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,168 | 1,0 | | | |
| FFQ35C2VEB x4 | 18,5 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,05x4 | 0,4x4 | | | |
| FFQ50C2VEB x3 | 18,0 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,05x3 | 0,4x3 | | | |
| FDXS35F2VEB x4 | 18,0 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,034x4 | 0,3x4 | | | |
| FDXS50F2VEB9 x3 | 18,4 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,06x3 | 0,5x3 | | | |
| FBO35C8VEB x4 | 22,5 | — | 25 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,140x4 | 1,2x4 | | | |
| FBO50C8VEB x3 | 21,0 | — | 25 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,140x3 | 1,2x3 | | | |
| FBO71C8VEB x2 | 19,3 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,350x2 | 1,1x2 | | | |
| FBO140C8VEB | 19,1 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,350 | 2,1 | | | |
| FAQ71C1VEB x2 | 17,5 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,048x2 | 0,4x2 | | | |
| FVQ140CVEB | 18,3 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,276 | 1,4 | | | |
| FHQ35CAVEB x4 | 19,5 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,060 x 4 | 0,6 x 4 | | | |
| FHQ50CAVEB x3 | 18,8 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,060 x 3 | 0,6 x 3 | | | |
| FHQ71CAVEB x2 | 18,5 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,091 x 2 | 0,8 x 2 | | | |
| FHQ140CAVEB | 18,8 | — | 20 | | | | — | 14,2 | 0,094+0,094 | 0,4+0,4 | 0,150 | 1,8 | | | |

SYMBOLS

- MCA : Min. Circuit Amps. (A)
- TOCA : Total Over-Current Amps. (A)
- MFA : Max. Fuse Amps (See note 7) (A)
- MSC : Max. current during the starting compressor. (A)
- RLA : Rated Load Amps. (A)
- OFM : Outdoor Fan Motor. (A)
- IFM : Indoor Fan Motor.
- FLA : Full Load Amps.
- kW : Fan Motor Rated Output (kW)

NOTES

- 1 RLA is based on the following conditions:
Cooling
Indoor temperature 27,0°CDB/19,0°CWB
Outdoor temperature 35,0°CDB
Heating
Indoor temperature 20,0°CDB
Outdoor temperature 7,0°CDB / 6,0°CWB
- 2 TOCA means the total value of each OC set.
- 3 Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- 4 Maximum allowable voltage variation between phases is 2%.
- 5 MCA represents maximum input current, MFA represents capacity which may accept MCA. (next lower standard fuse rating, min,15A)
- 6 Select wire size based on the larger value of MCA or TOCA.
- 7 MFA is used to select the circuit breaker and the ground fault circuit interrupter. (earth leakage circuit breaker)

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3 Electrical data

3 - 1 Electrical Data

3

RZQSG100L8Y1

| Unit combination restrictions | | Power supply | | | | | COMP | | OFM | | IFM | |
|-------------------------------|---------------|--------------|--------------|--|------|-----|------|------|-----|-----|---------|-------|
| Indoor | Outdoor | ① | ② | ③ | MCA | MFA | RHz | RLA | kW | FLA | kW | FLA |
| FBQ100D2VEB | RZQSG100L8Y1B | 3N~ 50Hz | 380- 415V | MAX. 50Hz 456V MIN. 50Hz 342V | 14.6 | 16 | - | 11.4 | 0.2 | 0.6 | 0.127 | 1.0 |
| 2xFBQ50D2VEB | RZQSG100L8Y1B | | | | 14.8 | 16 | - | 11.4 | 0.2 | 0.6 | 2x0.089 | 2x0.6 |

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- ① Hz
- ② Voltage
- ③ Voltage range
- MCA Minimum Circuit Ampere (A)
- MFA Maximum Fuse Ampere (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]
- RHz Rated operating frequency [Hz]
- COMP Compressor

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RZQSG100-140L(8)Y1

| Unit combination restrictions | | Power supply | | | | | COMP | | OFM | | IFM | |
|-------------------------------|---------------|--------------|--------------|--|------|-----|------|------|---------------|-----------|---------|-------|
| Indoor | Outdoor | ① | ② | ③ | MCA | MFA | RHz | RLA | kW | FLA | kW | FLA |
| 3xFBQ35D2VEB | RZQSG100L8Y1B | 3N~ 50Hz | 380- 415V | MAX. 50Hz 456V MIN. 50Hz 342V | 15.4 | 16 | - | 11.4 | 0.2 | 0.6 | 3x0.089 | 3x0.6 |
| FBQ125D2VEB | RZQSG125L8Y1B | | | | 15.2 | 16 | - | 11.4 | 0.2 | 0.6 | 0.187 | 1.5 |
| 2xFBQ60D2VEB | RZQSG125L8Y1B | | | | 14.7 | 16 | - | 11.4 | 0.2 | 0.6 | 2x0.07 | 2x0.5 |
| 3xFBQ50D2VEB | RZQSG125L8Y1B | | | | 15.5 | 16 | - | 11.4 | 0.2 | 0.6 | 3x0.089 | 3x0.6 |
| 4xFBQ35D2VEB | RZQSG125L8Y1B | | | | 16.1 | 20 | - | 11.4 | 0.2 | 0.6 | 4x0.089 | 4x0.6 |
| FBQ140D2VEB | RZQSG140L7Y1B | | | | 18.5 | 20 | - | 14.2 | 0.094 + 0.094 | 0.4 + 0.4 | 0.187 | 1.5 |
| 2xFBQ71D2VEB | RZQSG140L7Y1B | | | | 18 | 20 | - | 14.2 | 0.094 + 0.094 | 0.4 + 0.4 | 2x0.07 | 2x0.5 |
| 3xFBQ50D2VEB | RZQSG140L7Y1B | | | | 18.8 | 20 | - | 14.2 | 0.094 + 0.094 | 0.4 + 0.4 | 3x0.089 | 3x0.6 |
| 4xFBQ35D2VEB | RZQSG140L7Y1B | | | | 19.4 | 25 | - | 14.2 | 0.094 + 0.094 | 0.4 + 0.4 | 4x0.089 | 4x0.6 |

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- ① Hz
- ② Voltage
- ③ Voltage range
- MCA Minimum Circuit Ampere (A)
- MFA Maximum Fuse Ampere (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]
- RHz Rated operating frequency [Hz]
- COMP Compressor

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3 Electrical data

3 - 1 Electrical Data

RZQSG100-125L8Y1

| Unit combination restrictions | | Power supply | | | | | COMP | | OFM | | IFM | |
|-------------------------------|---------------|--------------|--------------|--|------|-----|------|------|-----|-----|---------|-------|
| Indoor | Outdoor | ① | ② | ③ | MCA | MFA | RHz | RLA | kW | FLA | kW | FLA |
| 2xFNQ50A2VEB | RZQSG100L8Y1B | 3N~ 50Hz | 380- 415V | MAX. 50Hz 456V MIN. 50Hz 342V | 14,6 | 16 | - | 11,4 | 0,2 | 0,6 | 2x0.06 | 2x0.5 |
| 3xFNQ35A2VEB | RZQSG100L8Y1B | | | | 14,5 | 16 | - | 11,4 | 0,2 | 0,6 | 3x0.034 | 3x0.3 |
| 2xFNQ60A2VEB | RZQSG125L8Y1B | | | | 14,7 | 16 | - | 11,4 | 0,2 | 0,6 | 2x0.06 | 2x0.5 |
| 3xFNQ50A2VEB | RZQSG125L8Y1B | | | | 15,2 | 16 | - | 11,4 | 0,2 | 0,6 | 3x0.06 | 3x0.5 |
| 4xFNQ35A2VEB | RZQSG125L8Y1B | | | | 14,9 | 16 | - | 11,4 | 0,2 | 0,6 | 4x0.034 | 4x0.3 |

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- ① Hz
- ② Voltage
- ③ Voltage range
- MCA Minimum Circuit Ampere (A)
- MFA Maximum Fuse Ampere (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]
- RHz Rated operating frequency [Hz]
- COMP Compressor

3D096315C

RZQSG140LY1

| Unit combination restrictions | | Power supply | | | | | COMP | | OFM | | IFM | |
|-------------------------------|---------------|--------------|--------------|--|------|-----|------|------|------------------|-----------|---------|-------|
| Indoor | Outdoor | ① | ② | ③ | MCA | MFA | RHz | RLA | kW | FLA | kW | FLA |
| 3xFNQ50A2VEB | RZQSG140L7Y1B | 3N~ 50Hz | 380- 415V | MAX. 50Hz 456V MIN. 50Hz 342V | 18,5 | 20 | - | 14,2 | 0,094 + 0,094 | 0,4 + 0,4 | 3x0.06 | 3x0.5 |
| 4xFNQ35A2VEB | RZQSG140L7Y1B | | | | 18,2 | 20 | - | 14,2 | 0,094 + 0,094 | 0,4 + 0,4 | 4x0.034 | 4x0.3 |

Notes

- The RLA is based on the following conditions.
Indoor temperature 27°C DB / 19°C WB
Outdoor temperature 35°C DB
- Select the wire size according to the MCA.
- The maximum allowable voltage that is unbalanced between phases is 2%.
- Use a circuit breaker instead of a fuse.

Symbols

- ① Hz
- ② Voltage
- ③ Voltage range
- MCA Minimum Circuit Ampere (A)
- MFA Maximum Fuse Ampere (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]
- RHz Rated operating frequency [Hz]
- COMP Compressor

3D096315C

4 Options

4 - 1 Options

RZQSG-L(8)Y1

Available options for RZQSG models:

| Name of option | Kit name | | |
|---------------------------|--------------|-----------------------------------|-----------------------------------|
| | RZQSG100L8Y1 | RZQSG125L8Y1 | RZQSG140LY1 |
| Bottom plate heater | | - | |
| Refrigerant branch piping | Twin | KHRQ22M20TA (KHRQ58T); See note 1 | |
| | Triple | KHRQ127H (KHRQ58H); See note 1 | |
| | Double twin | - | KHRQ22M20TA (KHRQ58T); See note 1 |
| Demand adapter kit | | KRP58M51 | |

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NOTES

- For RZQSG71-140L(8)Y1 in combination with FCQG35-71F or FCQH71F use the refrigerant branch piping mentioned between brackets.

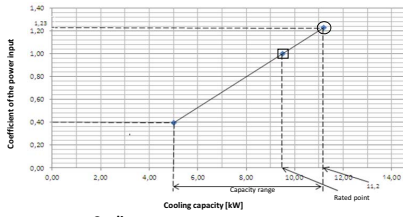
6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

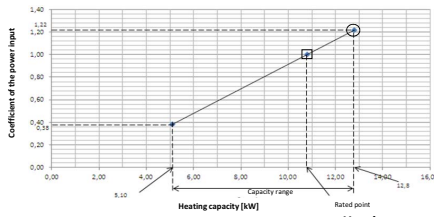
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RZQSG100L9V1 RZQSG100L8Y1

Cooling



Heating



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

Cooling

| Indoor | | Outdoor temperature [°C DB] | | | | | | | | | | | |
|--------|------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | 25 | | | 30 | | | 35 | | | 40 | | |
| °CWB | °CDB | TW | SHC | CPI | TW | SHC | CPI | TW | SHC | CPI | TW | SHC | CPI |
| 16.0 | 22 | 11.2 | 7.61 | 1.01 | 10.8 | 7.44 | 1.11 | 10.5 | 7.29 | 1.22 | 10.1 | 7.09 | 1.32 |
| 18.0 | 25 | 11.8 | 7.89 | 1.01 | 11.4 | 7.49 | 1.12 | 11.0 | 7.27 | 1.23 | 10.5 | 7.09 | 1.33 |
| 19.0 | 27 | 12.0 | 7.87 | 1.02 | 11.6 | 7.44 | 1.12 | 11.2 | 7.26 | 1.23 | 10.8 | 7.04 | 1.33 |
| 19.5 | 27 | 12.1 | 7.89 | 1.02 | 11.7 | 7.37 | 1.13 | 11.4 | 7.34 | 1.23 | 10.9 | 7.04 | 1.34 |
| 22.0 | 30 | 12.8 | 7.82 | 1.02 | 12.4 | 7.36 | 1.13 | 11.9 | 7.16 | 1.24 | 11.5 | 7.03 | 1.35 |
| 24.0 | 32 | 13.3 | 7.42 | 1.03 | 12.9 | 7.27 | 1.14 | 12.4 | 7.06 | 1.25 | 12.0 | 6.81 | 1.36 |

Heating

| Indoor | | Outdoor temperature [°C WB] | | | | | | | | | | | |
|--------|------|-----------------------------|------|-------|------|------|------|------|------|------|------|------|------|
| | | -15.0 | | -10.0 | | -5.0 | | 0.0 | | 6.0 | | 10.0 | |
| °CDB | °CWB | TW | CPI | TW | CPI | TW | CPI | TW | CPI | TW | CPI | TW | CPI |
| 16 | 16 | 8.58 | 0.93 | 9.45 | 0.99 | 10.1 | 1.02 | 10.4 | 1.05 | 12.8 | 1.12 | 13.8 | 1.18 |
| 18 | 18 | 8.67 | 0.97 | 9.44 | 1.02 | 10.0 | 1.07 | 10.3 | 1.10 | 12.8 | 1.17 | 13.8 | 1.23 |
| 20 | 20 | 8.56 | 1.01 | 9.43 | 1.07 | 10.0 | 1.11 | 10.3 | 1.14 | 12.8 | 1.22 | 13.8 | 1.28 |
| 21 | 21 | 8.56 | 1.03 | 9.42 | 1.09 | 10.0 | 1.13 | 10.3 | 1.16 | 12.8 | 1.24 | 13.8 | 1.30 |
| 22 | 22 | 8.55 | 1.04 | 9.42 | 1.10 | 10.0 | 1.14 | 10.3 | 1.18 | 12.8 | 1.26 | 13.8 | 1.33 |
| 24 | 24 | 8.54 | 1.09 | 9.41 | 1.15 | 10.0 | 1.19 | 10.3 | 1.23 | 12.8 | 1.31 | 13.8 | 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
SHC* = 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: 0m
 - 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.

9. The rated power input for each model is mentioned in the table below.

Pair

| | FCQGH20P | FCQG100P | FBQ100C | FHQ100C | FVQ100C | FHQ100CA | FBQ100D |
|-----|----------|----------|---------|---------|---------|----------|---------|
| AFR | 33.3 | 32.0 | 32.0 | 30.0 | 36.0 | 38.0 | 38.0 |
| BF | (0.17) | (0.17) | (0.13) | (0.09) | (0.10) | (0.20) | (0.20) |

Pair

| | FCQGH20P | FCQG100P | FBQ100C | FHQ100C | FAQ100C | FVQ100C | FHQ100CA | FBQ100D |
|---------|----------|----------|---------|---------|---------|---------|----------|---------|
| Cooling | 2.57 | 2.88 | 2.87 | 2.96 | 3.16 | 2.96 | 2.96 | 2.84 |
| Heating | 2.51 | 3.05 | 2.96 | 2.99 | 3.17 | 2.99 | 2.99 | 2.94 |

Twin

| | FCQSGP X 2 | FBQSGC X 2 | FHQSGCA X 2 | FBQSGC X 2 | FDXSGFP X 2 | FBQSGD X 2 | FNQSGA X 2 |
|-----|------------|------------|-------------|------------|-------------|------------|------------|
| AFR | 12.6 x 2 | 16 x 2 | 15 x 2 | 12 x 2 | 16 x 2 | 18 x 2 | 16 x 2 |
| BF | (0.22 x 2) | (0.16 x 2) | (0.18 x 2) | (0.11 x 2) | (0.11 x 2) | (0.15 x 2) | (0.11 x 2) |

Twin

| | FCQSGP X 2 | FBQSGC X 2 | FHQSGCA X 2 | FBQSGC X 2 | FDXSGFP X 2 | FBQSGD X 2 | FNQSGA X 2 |
|---------|------------|------------|-------------|------------|-------------|------------|------------|
| Cooling | 2.76 | 2.93 | 3.35 | 3.13 | 3.15 | 3.10 | 3.15 |
| Heating | 2.61 | 2.86 | 3.28 | 3.34 | 3.31 | 3.27 | 3.31 |

Triple

| | FCQSGP X 3 | FBQSGC X 3 | FHQSGCA X 3 | FBQSGC X 3 | FDXSGFP X 3 | FBQSGD X 3 | FNQSGA X 3 |
|-----|------------|------------|-------------|------------|-------------|------------|------------|
| AFR | 22.5 x 3 | 16 x 3 | 14 x 3 | 10 x 3 | 16 x 3 | 18 x 3 | 16 x 3 |
| BF | (0.4 x 3) | (0.15 x 3) | (0.17 x 3) | (0.11 x 3) | (0.11 x 3) | (0.15 x 3) | (0.11 x 3) |

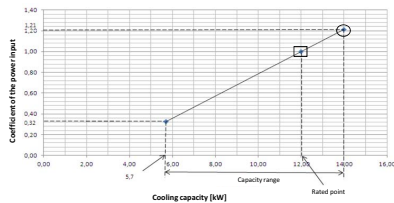
Triple

| | FCQSGP X 3 | FBQSGC X 3 | FHQSGCA X 3 | FBQSGC X 3 | FDXSGFP X 3 | FBQSGD X 3 | FNQSGA X 3 |
|---------|------------|------------|-------------|------------|-------------|------------|------------|
| Cooling | 2.82 | 2.93 | 3.33 | 3.08 | 3.71 | 3.90 | 3.71 |
| Heating | 2.66 | 2.86 | 3.26 | 3.04 | 3.06 | 3.24 | 3.06 |

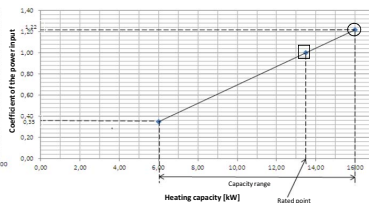
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RZQSG125L9V1 RZQSG125L8Y1

Cooling



Heating



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

Cooling

| Indoor | | Outdoor temperature [°C DB] | | | | | | | | | | | |
|--------|------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|
| | | 25 | | | 30 | | | 35 | | | 40 | | |
| °CWB | °CDB | TW | SHC | CPI | TW | SHC | CPI | TW | SHC | CPI | TW | SHC | CPI |
| 16.0 | 22 | 14.1 | 9.54 | 0.98 | 13.6 | 9.30 | 1.09 | 13.1 | 9.12 | 1.19 | 12.6 | 8.78 | 1.29 |
| 18.0 | 25 | 14.7 | 9.50 | 0.99 | 14.2 | 9.32 | 1.09 | 13.7 | 9.09 | 1.20 | 13.2 | 8.83 | 1.31 |
| 19.0 | 27 | 15.0 | 9.52 | 1.00 | 14.5 | 9.24 | 1.10 | 14.0 | 9.06 | 1.20 | 13.5 | 8.87 | 1.31 |
| 19.5 | 27 | 15.2 | 9.52 | 1.00 | 14.7 | 9.26 | 1.11 | 14.2 | 9.08 | 1.20 | 13.6 | 8.81 | 1.31 |
| 22.0 | 30 | 16.0 | 9.39 | 1.00 | 15.5 | 9.14 | 1.11 | 14.9 | 8.95 | 1.21 | 14.4 | 8.74 | 1.32 |
| 24.0 | 32 | 16.7 | 9.31 | 1.01 | 16.1 | 9.09 | 1.12 | 15.2 | 8.83 | 1.23 | 15.0 | 8.63 | 1.33 |

Heating

| Indoor | | Outdoor temperature [°C WB] | | | | | | | | | | | |
|--------|------|-----------------------------|------|-------|------|------|------|------|------|------|------|------|------|
| | | -15.0 | | -10.0 | | -5.0 | | 0.0 | | 6.0 | | 10.0 | |
| °CDB | °CWB | TW | CPI | TW | CPI | TW | CPI | TW | CPI | TW | CPI | TW | CPI |
| 16 | 16 | 10.7 | 0.93 | 11.8 | 0.99 | 12.6 | 1.02 | 13.0 | 1.05 | 16.0 | 1.12 | 17.3 | 1.18 |
| 18 | 18 | 10.7 | 0.97 | 11.8 | 1.02 | 12.5 | 1.07 | 12.9 | 1.10 | 16.0 | 1.17 | 17.3 | 1.23 |
| 20 | 20 | 10.7 | 1.01 | 11.8 | 1.07 | 12.5 | 1.11 | 12.9 | 1.14 | 16.0 | 1.22 | 17.3 | 1.28 |
| 21 | 21 | 10.7 | 1.03 | 11.8 | 1.09 | 12.5 | 1.13 | 12.9 | 1.16 | 16.0 | 1.24 | 17.3 | 1.31 |
| 22 | 22 | 10.7 | 1.04 | 11.8 | 1.10 | 12.5 | 1.14 | 12.9 | 1.18 | 16.0 | 1.27 | 17.3 | 1.33 |
| 24 | 24 | 10.7 | 1.09 | 11.8 | 1.15 | 12.5 | 1.19 | 12.9 | 1.23 | 16.0 | 1.31 | 17.3 | 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
SHC* = 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: 0m
 - 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.

9. The rated power input for each model is mentioned in the table below.

Pair

| | FCQH125P | FCQG125P | FBQ125C | FHQ125C | FVQ125C | FHQ125CA | FBQ125D |
|-----|----------|----------|---------|---------|---------|----------|---------|
| AFR | 33.5 | 33.0 | 33.0 | 30.0 | 36.0 | 38.0 | 38.0 |
| BF | (0.19) | (0.21) | (0.16) | (0.14) | (0.16) | (0.14) | (0.16) |

Pair

| | FCQH125P | FCQG125P | FBQ125C | FHQ125C | FAQ125C | FVQ125C | FHQ125CA | FBQ125D |
|---------|----------|----------|---------|---------|---------|---------|----------|---------|
| Cooling | 3.71 | 3.74 | 3.74 | 4.15 | 3.74 | 4.27 | 4.15 | 3.72 |
| Heating | 3.60 | 3.96 | 3.85 | 3.73 | 3.85 | 3.96 | 3.73 | 3.72 |

Twin

| | FCQSGP X 2 | FBQSGC X 2 | FHQSGCA X 2 | FBQSGC X 2 | FDXSGFP X 2 | FBQSGD X 2 | FNQSGA X 2 |
|-----|------------|------------|-------------|------------|-------------|------------|------------|
| AFR | 13.6 x 2 | 18 x 2 | 18 x 2 | 14 x 2 | 16 x 2 | 18 x 2 | 16 x 2 |
| BF | (0.2 x 2) | (0.15 x 2) | (0.16 x 2) | (0.11 x 2) | (0.11 x 2) | (0.15 x 2) | (0.11 x 2) |

Twin

| | FCQSGP X 2 | FBQSGC X 2 | FHQSGCA X 2 | FBQSGC X 2 | FDXSGFP X 2 | FBQSGD X 2 | FNQSGA X 2 |
|---------|------------|------------|-------------|------------|-------------|------------|------------|
| Cooling | 3.66 | 3.95 | 4.34 | 4.75 | 4.88 | 4.24 | 4.88 |
| Heating | 3.88 | 4.06 | 4.43 | 4.58 | 4.58 | 4.14 | 4.58 |

Triple

| | FCQSGP X 3 | FBQSGC X 3 | FHQSGCA X 3 | FBQSGC X 3 | FDXSGFP X 3 | FBQSGD X 3 | FNQSGA X 3 |
|-----|------------|------------|-------------|------------|-------------|------------|------------|
| AFR | 22.6 x 3 | 18 x 3 | 15 x 3 | 12 x 3 | 16 x 3 | 18 x 3 | 16 x 3 |
| BF | (0.22 x 3) | (0.16 x 3) | (0.18 x 3) | (0.11 x 3) | (0.11 x 3) | (0.15 x 3) | (0.11 x 3) |

Triple

| | FCQSGP X 3 | FBQSGC X 3 | FHQSGCA X 3 | FBQSGC X 3 | FDXSGFP X 3 | FBQSGD X 3 | FNQSGA X 3 |
|---------|------------|------------|-------------|------------|-------------|------------|------------|
| Cooling | 3.89 | 3.95 | 4.33 | 4.34 | 4.87 | 4.98 | 4.87 |
| Heating | 3.90 | 4.06 | 4.42 | 4.57 | 4.57 | 4.09 | 4.57 |

Double twin

| | FCQSGP X 4 | FBQSGC X 4 | FHQSGCA X 4 | FBQSGC X 4 | FDXSGFP X 4 | FBQSGD X 4 | FNQSGA X 4 |
|-----|------------|------------|-------------|------------|-------------|------------|------------|
| AFR | 23.5 x 4 | 18 x 4 | 16 x 4 | 12 x 4 | 16 x 4 | 18 x 4 | 16 x 4 |
| BF | (0.4 x 4) | (0.15 x 4) | (0.17 x 4) | (0.11 x 4) | (0.11 x 4) | (0.15 x 4) | (0.11 x 4) |

Double twin

| | FCQSGP X 4 | FBQSGC X 4 | FHQSGCA X 4 | FBQSGC X 4 | FDXSGFP X 4 | FBQSGD X 4 | FNQSGA X 4 |
|---------|------------|------------|-------------|------------|-------------|------------|------------|
| Cooling | 3.75 | 3.99 | 4.34 | 4.39 | 4.87 | 4.98 | 4.87 |
| Heating | 3.96 | 4.06 | 4.32 | 4.59 | 4.56 | 4.03 | 4.56 |

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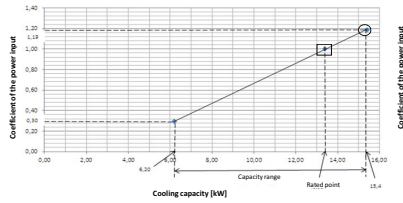
6 Capacity tables

6 - 1 Cooling/Heating Capacity Tables

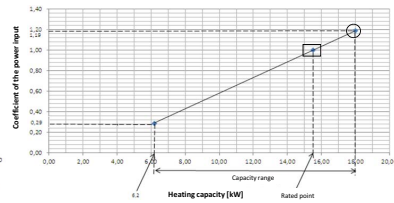
RZQSG140L9V1

RZQSG140LY1

Cooling



Heating



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

Cooling

| Indoor | Outdoor temperature (°C DB) | | | | | | | | | | | | |
|--------|-----------------------------|------|-------|------|------|-------|------|------|-------|------|------|------|------|
| | 25 | | | 30 | | | 35 | | | 40 | | | |
| °CWB | °CDB | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI | TC | SHC | CPI |
| 16.0 | 22 | 15.5 | 10.47 | 0.98 | 14.9 | 10.25 | 1.06 | 14.4 | 10.03 | 1.18 | 13.9 | 9.69 | 1.26 |
| 18.0 | 25 | 16.2 | 10.55 | 0.98 | 15.8 | 10.21 | 1.08 | 15.1 | 10.08 | 1.19 | 14.5 | 9.71 | 1.30 |
| 19.0 | 27 | 16.6 | 10.43 | 0.98 | 16.0 | 10.18 | 1.09 | 15.4 | 9.98 | 1.19 | 14.6 | 9.76 | 1.30 |
| 19.5 | 27 | 16.7 | 10.49 | 0.98 | 16.1 | 10.16 | 1.10 | 15.6 | 10.00 | 1.19 | 15.0 | 9.66 | 1.30 |
| 22.0 | 30 | 17.6 | 10.37 | 0.98 | 17.0 | 10.16 | 1.10 | 16.4 | 9.83 | 1.21 | 15.8 | 9.60 | 1.31 |
| 24.0 | 32 | 18.4 | 10.20 | 1.00 | 17.7 | 10.00 | 1.11 | 17.0 | 9.67 | 1.22 | 16.4 | 9.47 | 1.32 |

Heating

| Indoor | Outdoor temperature (°C WB) | | | | | | | | | | | | |
|--------|-----------------------------|------|-------|------|------|------|------|------|------|------|------|------|-----|
| | -15.0 | | -10.0 | | -5.0 | | 0.0 | | 6.0 | | 10.0 | | |
| °CDB | °CWB | 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 | 1.26 | — |
| 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: 0m
- 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.

9. The rated power input for each model is mentioned in the table below.

Pair

| Pair | FCQHG140F | FCQG140R | FRQ140C | FRQ140C | FRQ140C | FRQ140CA | FRQ140D |
|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| AFR (BF) | 33.5 (0.35) | 33.0 (0.33) | 34.0 (0.34) | 34.0 (0.37) | 30.0 (0.30) | 34.0 (0.37) | 34.0 (0.36) |

Pair

| Pair | FCQHG140F | FCQG140R | FRQ140C | FRQ140C | FRQ140C | FRQ140CA | FRQ140D |
|---------|-----------|----------|---------|---------|---------|----------|---------|
| Cooling | 4.17 | 4.45 | 4.44 | 4.45 | 4.45 | 4.45 | 4.38 |
| Heating | 4.29 | 4.54 | 4.54 | 4.54 | 4.54 | 4.54 | 4.56 |

Twin

| Pair | FCQHG140F x 2 | FCQG140R x 2 | FRQ140C x 2 | FRQ140C x 2 | FRQ140C x 2 | FRQ140CA x 2 | FRQ140D x 2 |
|----------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|-------------------|
| AFR (BF) | 21.2 x 2 (0.24 x 2) | 21.5 x 2 (0.24 x 2) | 18.0 x 2 (0.18 x 2) | 20.5 x 2 (0.18 x 2) | 18.0 x 2 (0.18 x 2) | 20.5 x 2 (0.18 x 2) | 18 x 2 (0.18 x 2) |

Twin

| Pair | FCQHG140F x 2 | FCQG140R x 2 | FRQ140C x 2 | FRQ140C x 2 | FRQ140C x 2 | FRQ140CA x 2 | FRQ140D x 2 |
|---------|---------------|--------------|-------------|-------------|-------------|--------------|-------------|
| Cooling | 4.11 | 4.39 | 4.37 | 4.05 | 4.23 | 4.01 | 4.17 |
| Heating | 4.23 | 4.48 | 4.04 | 4.71 | 4.92 | 4.71 | 4.94 |

Triple

| Pair | FCQHG140F x 3 | FRQ140C x 3 | FRQ140CA x 3 | FRQ140C x 3 | FRQ140C x 3 | FRQ140D x 3 | FRQ140D x 3 |
|----------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| AFR (BF) | 12.6 x 3 (0.22 x 3) | 16 x 3 (0.16 x 3) | 15 x 3 (0.16 x 3) | 12 x 3 (0.11 x 3) | 15 x 3 (0.13 x 3) | 16 x 3 (0.13 x 3) | 16 x 3 (0.13 x 3) |

Triple

| Pair | FCQHG140F x 3 | FRQ140C x 3 | FRQ140CA x 3 | FRQ140C x 3 | FRQ140C x 3 | FRQ140D x 3 | FRQ140D x 3 |
|---------|---------------|-------------|--------------|-------------|-------------|-------------|-------------|
| Cooling | 4.40 | 4.17 | 4.67 | 4.43 | 4.68 | 4.17 | 4.68 |
| Heating | 4.48 | 4.94 | 5.07 | 4.95 | 4.61 | 4.94 | 4.61 |

Double twin

| Pair | FCQHG140F x 4 | FRQ140C x 4 | FRQ140CA x 4 | FRQ140C x 4 | FRQ140C x 4 | FRQ140D x 4 | FRQ140D x 4 |
|----------|---------------------|-------------------|---------------------|---------------------|---------------------|-------------------|-------------------|
| AFR (BF) | 12.5 x 4 (0.24 x 4) | 16 x 4 (0.16 x 4) | 14.4 x 4 (0.16 x 4) | 10.4 x 4 (0.11 x 4) | 15.4 x 4 (0.13 x 4) | 16 x 4 (0.13 x 4) | 16 x 4 (0.13 x 4) |

Double twin

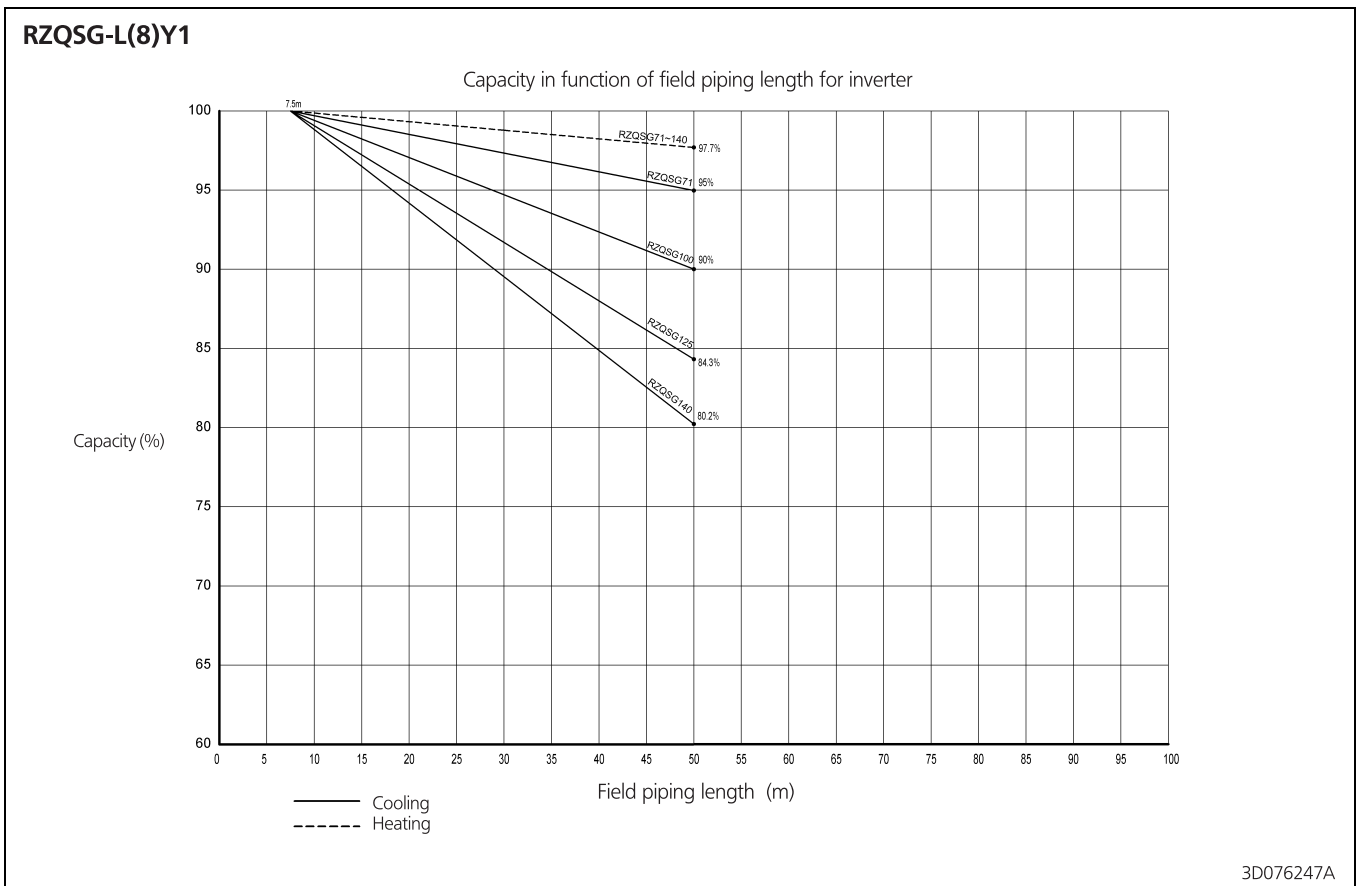
| Pair | FCQHG140F x 4 | FRQ140C x 4 | FRQ140CA x 4 | FRQ140C x 4 | FRQ140C x 4 | FRQ140D x 4 | FRQ140D x 4 |
|---------|---------------|-------------|--------------|-------------|-------------|-------------|-------------|
| Cooling | 4.56 | 4.37 | 4.63 | 4.21 | 5.00 | 4.37 | 5.00 |
| Heating | 4.54 | 4.94 | 5.07 | 4.95 | 4.69 | 4.94 | 4.69 |

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6 Capacity tables

6 - 2 Capacity Correction Factor

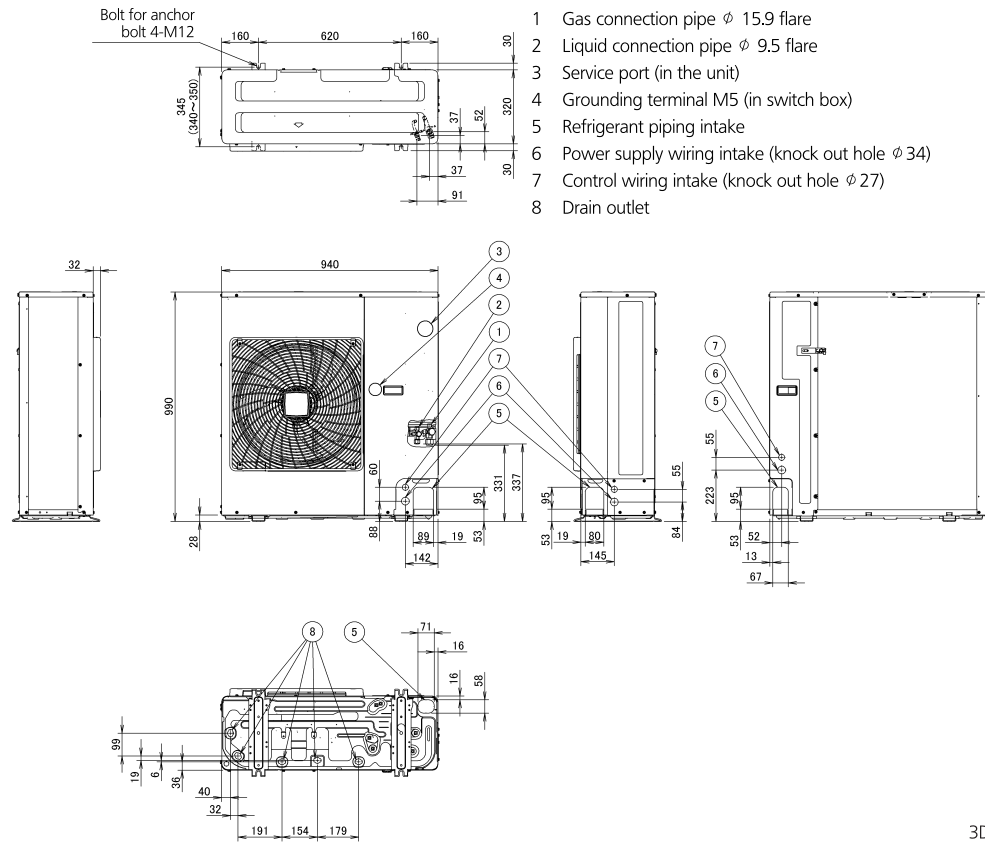
6



7 Dimensional drawings

7 - 1 Dimensional Drawings

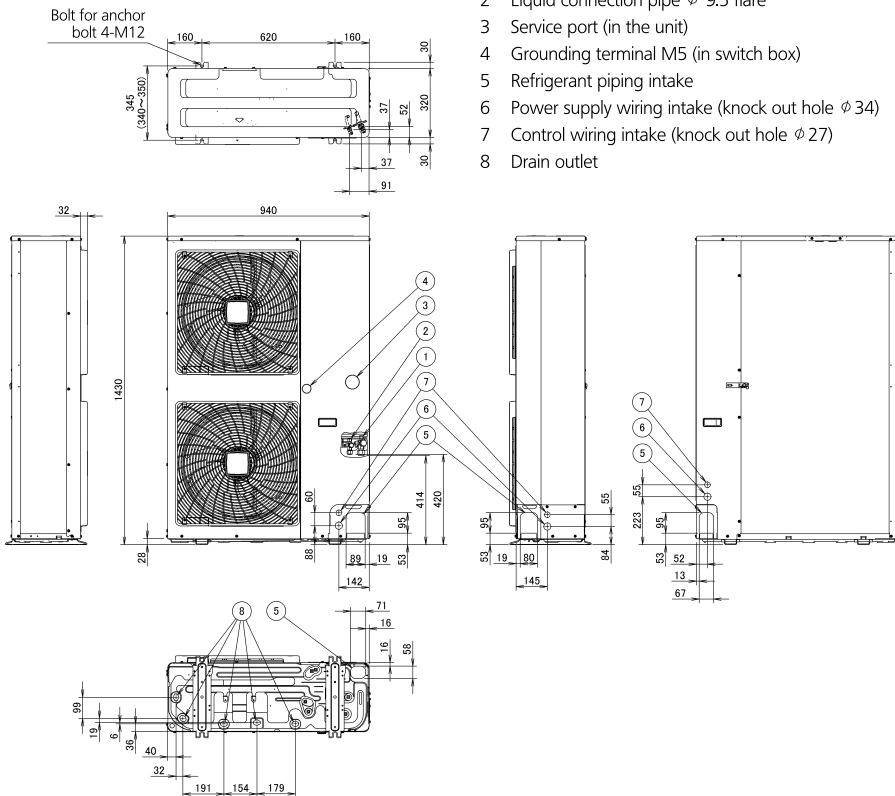
RZQSG100-125L8Y1



- 1 Gas connection pipe ϕ 15.9 flare
- 2 Liquid connection pipe ϕ 9.5 flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Refrigerant piping intake
- 6 Power supply wiring intake (knock out hole ϕ 34)
- 7 Control wiring intake (knock out hole ϕ 27)
- 8 Drain outlet

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RZQSG140LY1



- 1 Gas connection pipe ϕ 15.9 flare
- 2 Liquid connection pipe ϕ 9.5 flare
- 3 Service port (in the unit)
- 4 Grounding terminal M5 (in switch box)
- 5 Refrigerant piping intake
- 6 Power supply wiring intake (knock out hole ϕ 34)
- 7 Control wiring intake (knock out hole ϕ 27)
- 8 Drain outlet

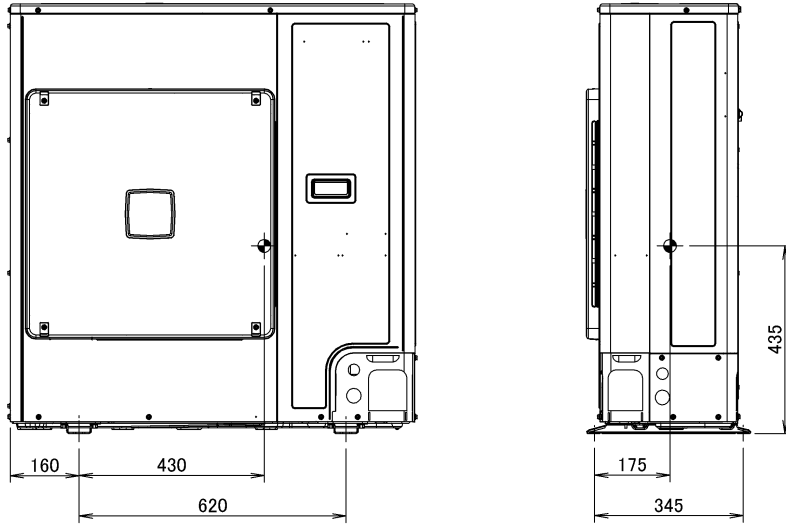
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8 Centre of gravity

8 - 1 Centre of Gravity

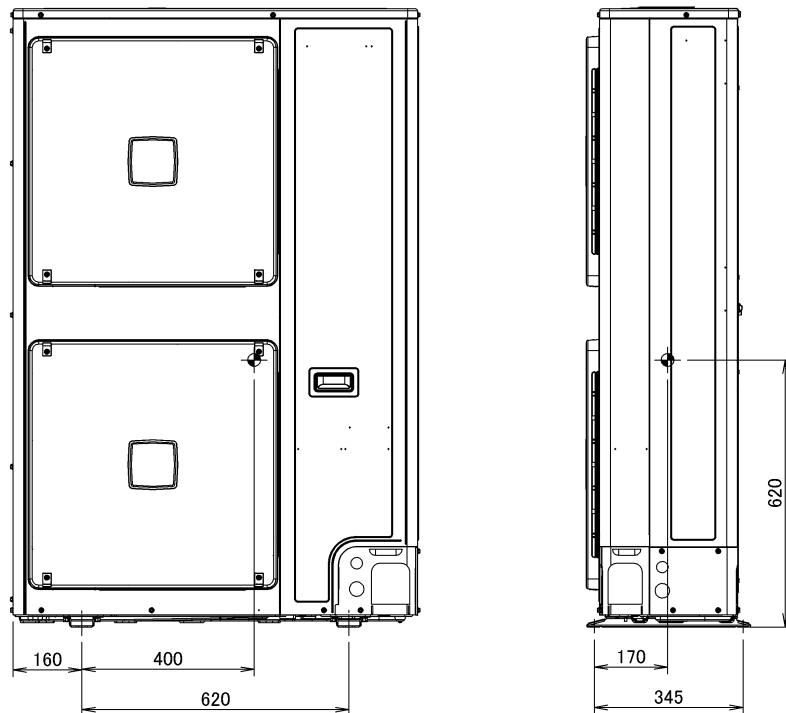
8

RZQSG100-125L8Y1



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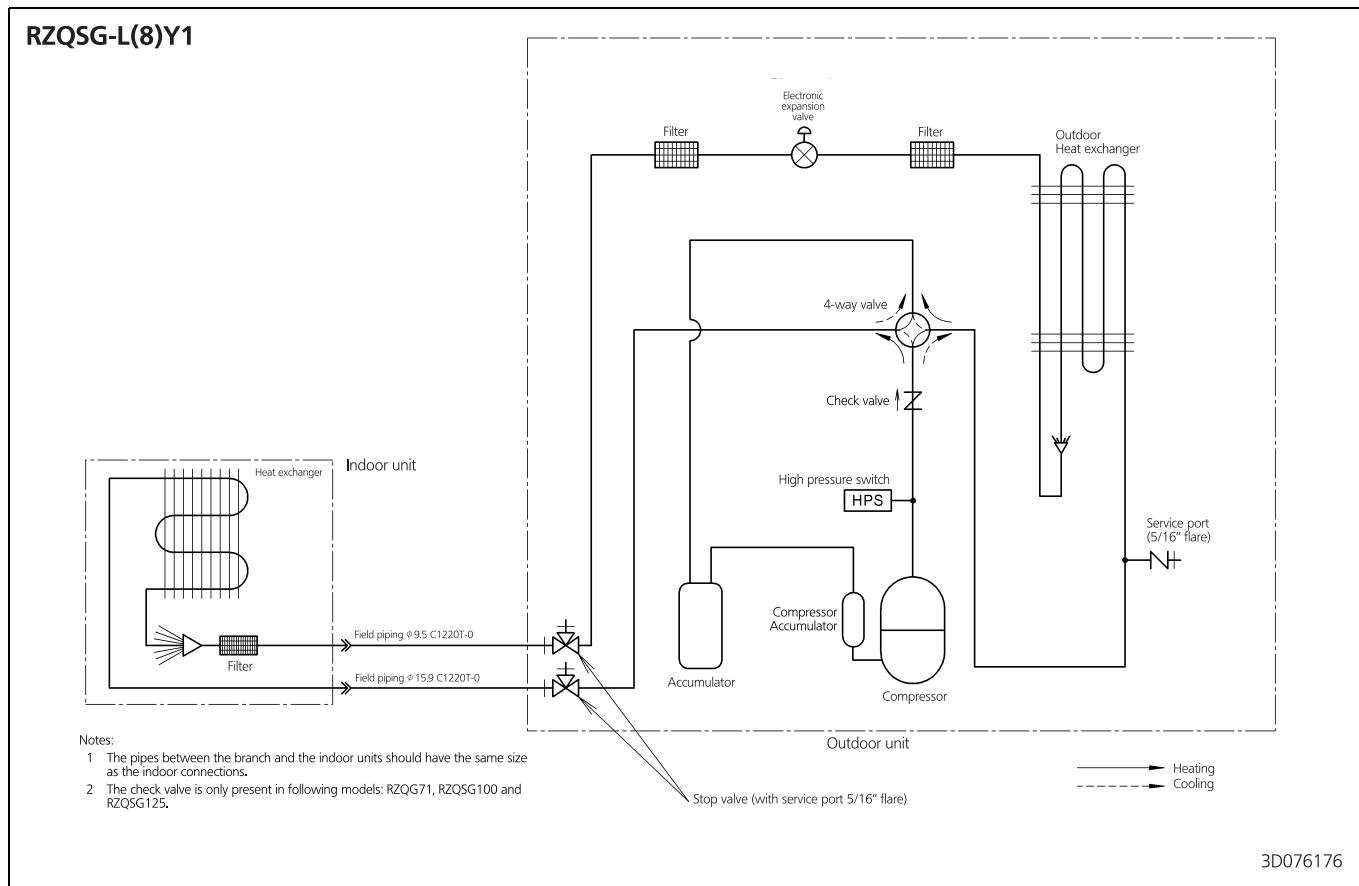
RZQSG140LY1



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9 Piping diagrams

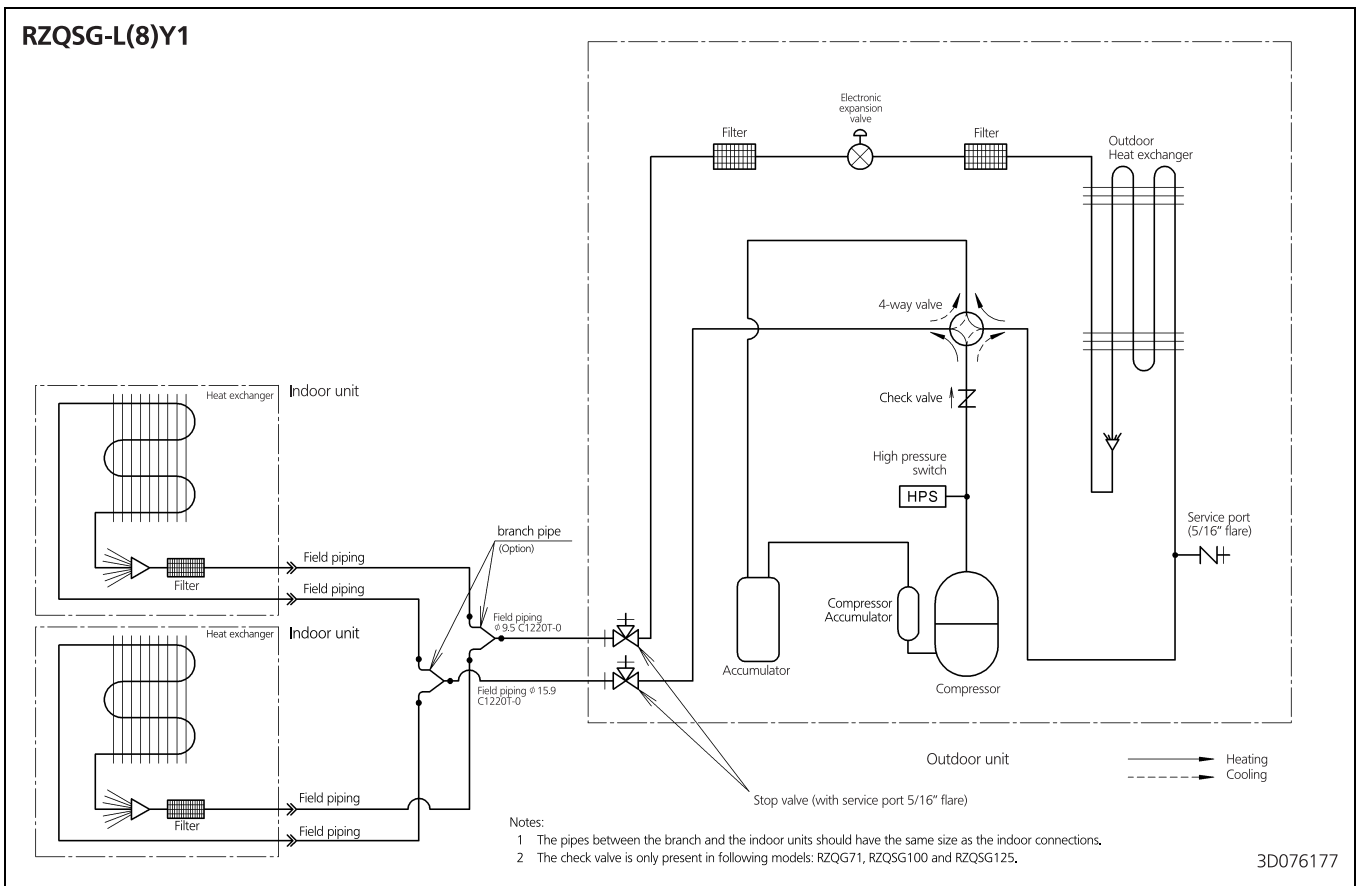
9 - 1 Piping Diagrams



9 Piping diagrams

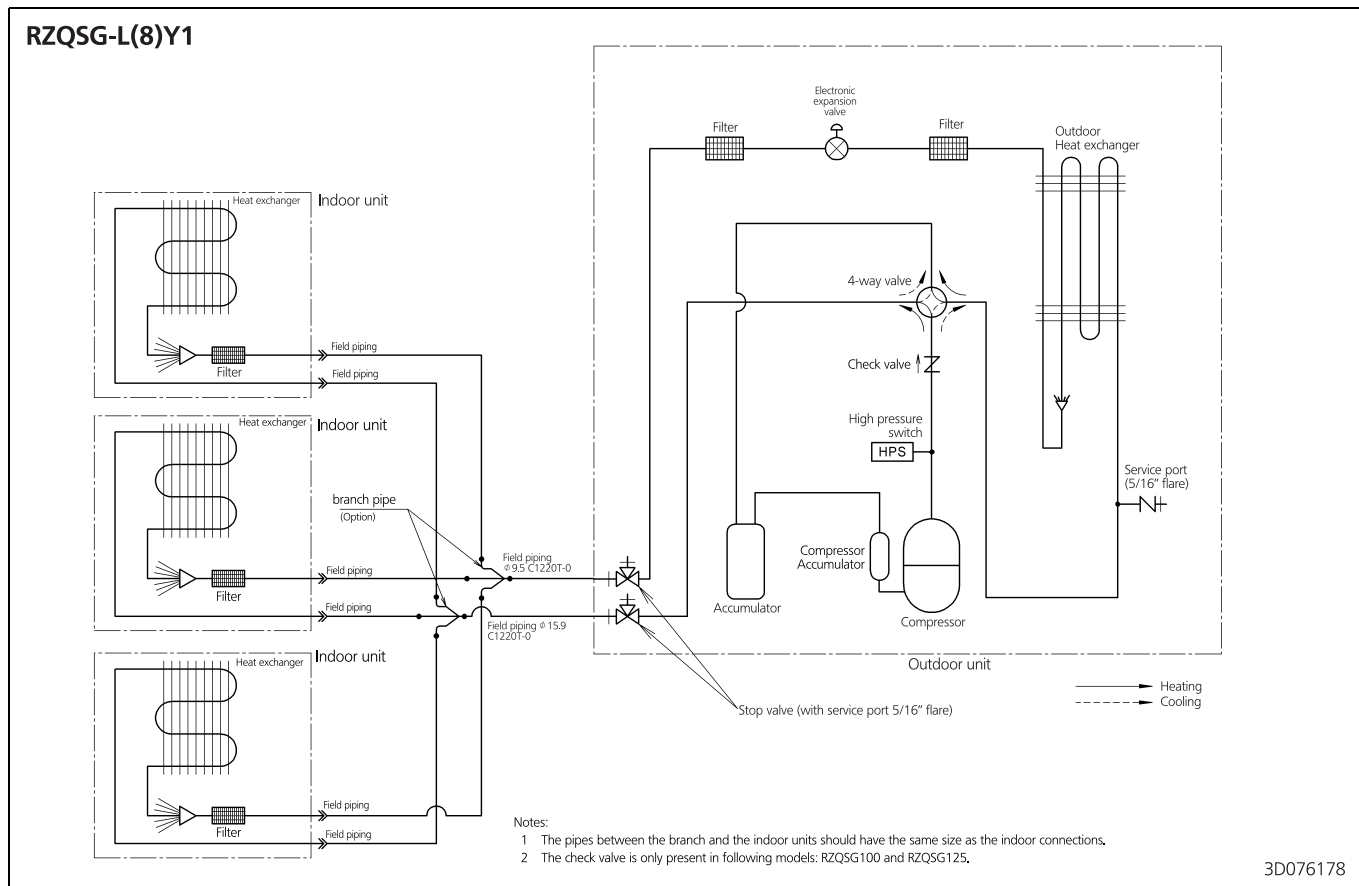
9 - 2 Piping Diagram Twin Application

9



9 Piping diagrams

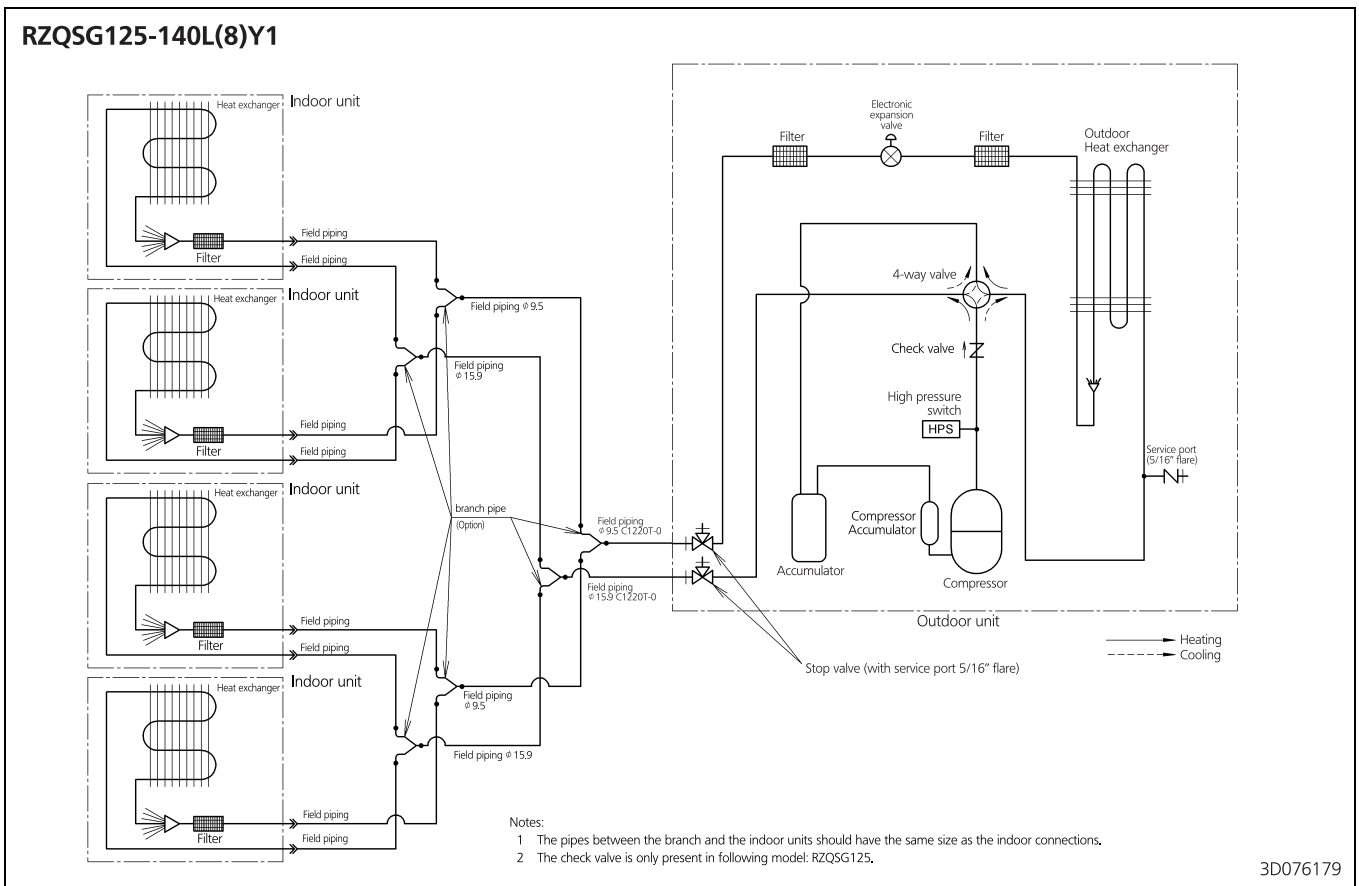
9 - 3 Piping Diagram Triple Application



9 Piping diagrams

9 - 4 Piping Diagram Double Twin Application

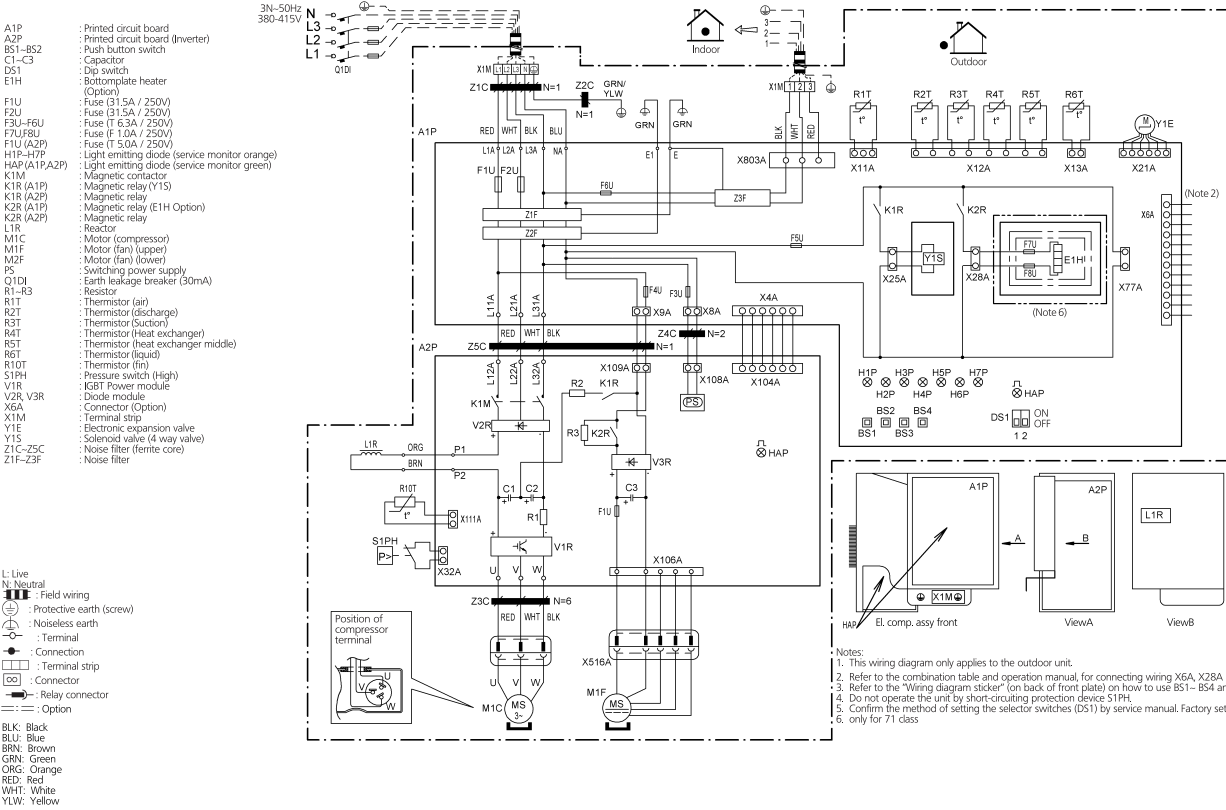
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10 Wiring diagrams

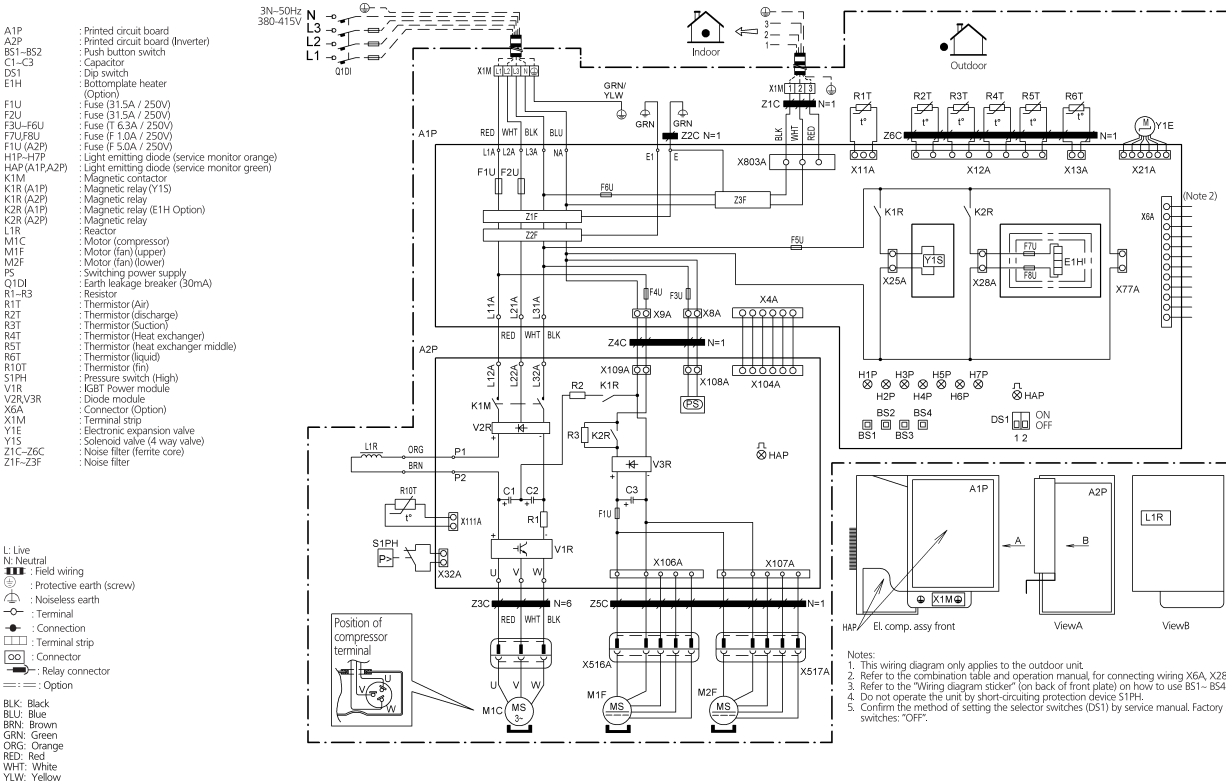
10 - 1 Wiring Diagrams - Three Phase

RZQSG100-125L8Y1



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RZQSG140LY1

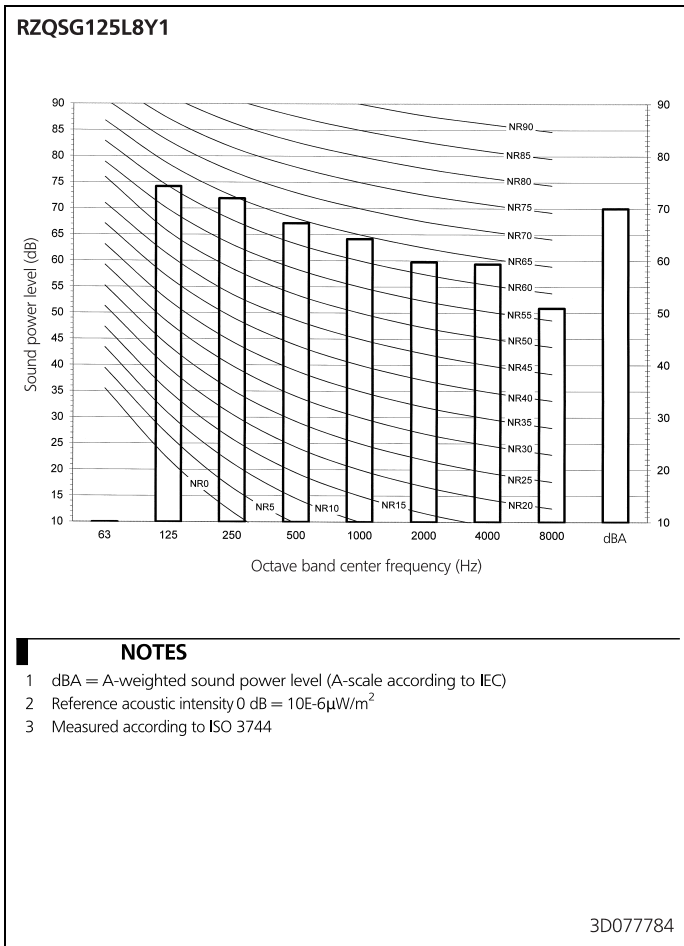
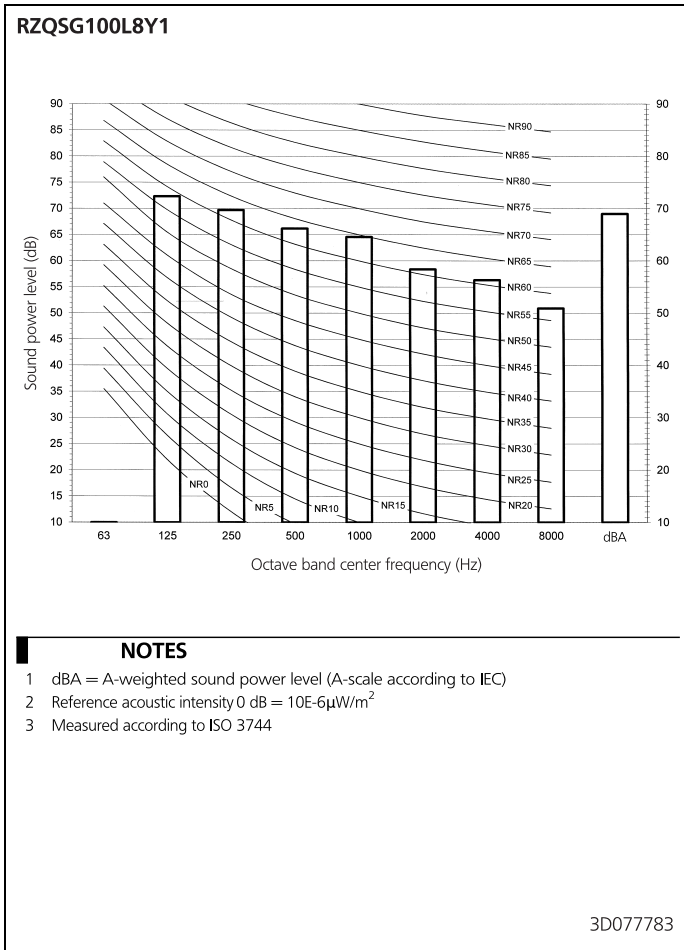


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11 Sound data

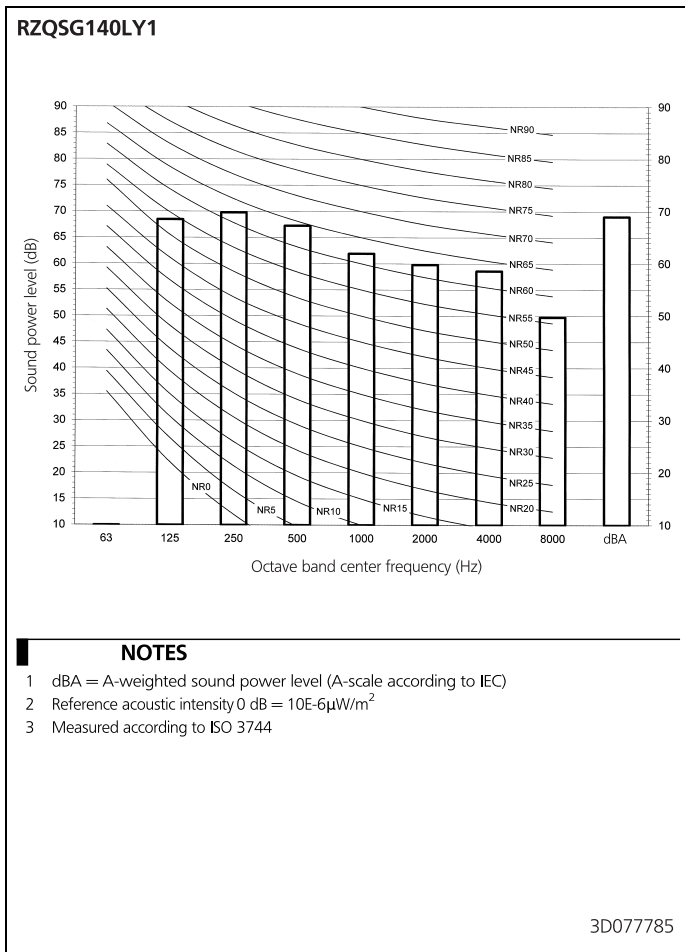
11 - 1 Sound Power Spectrum

11



11 Sound data

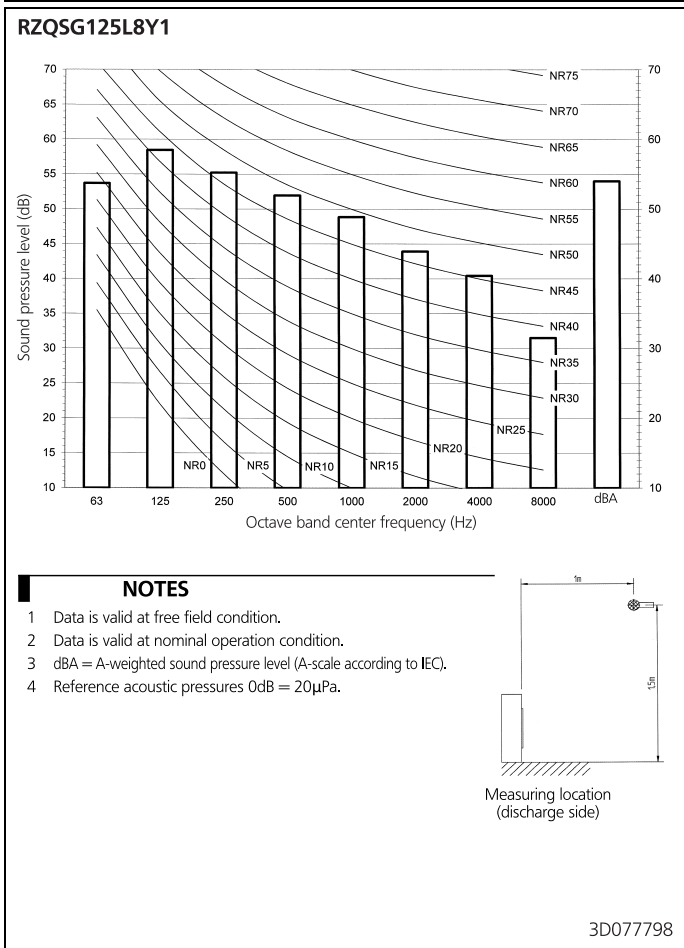
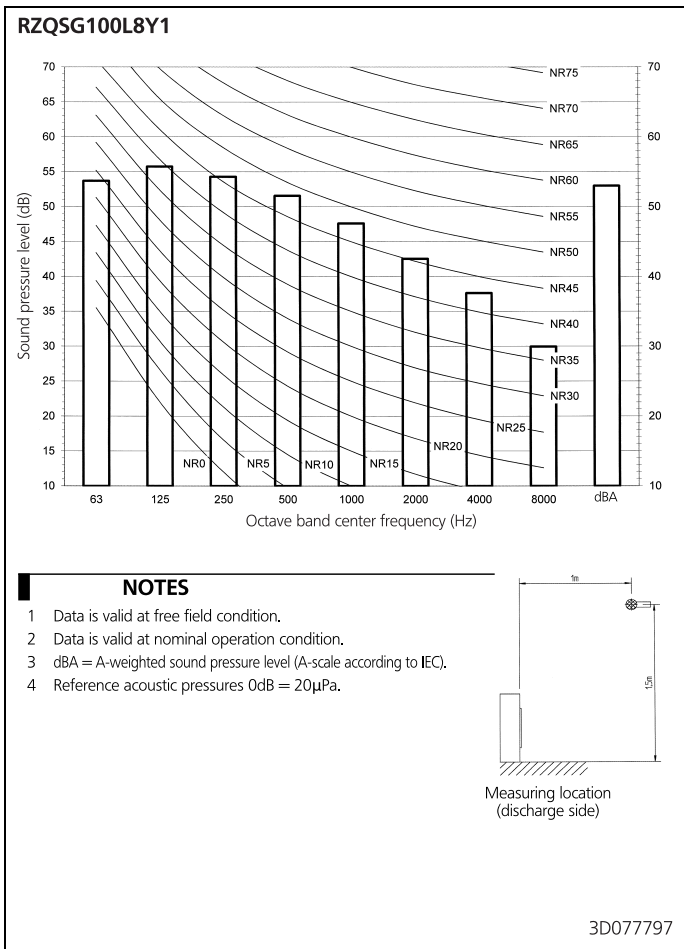
11 - 1 Sound Power Spectrum



11 Sound data

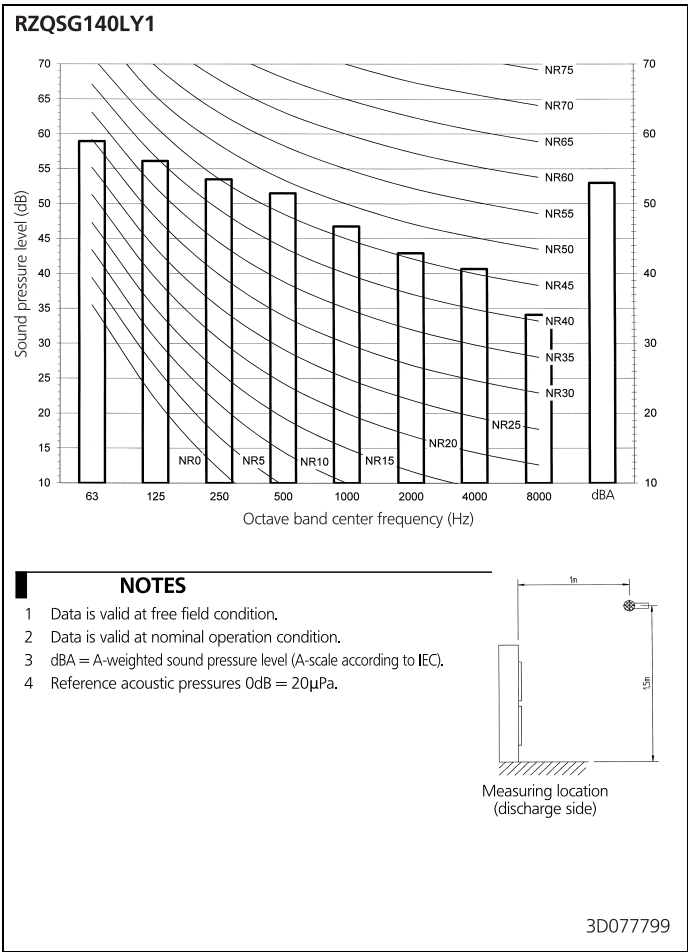
11 - 2 Sound Pressure Spectrum - Cooling

11



11 Sound data

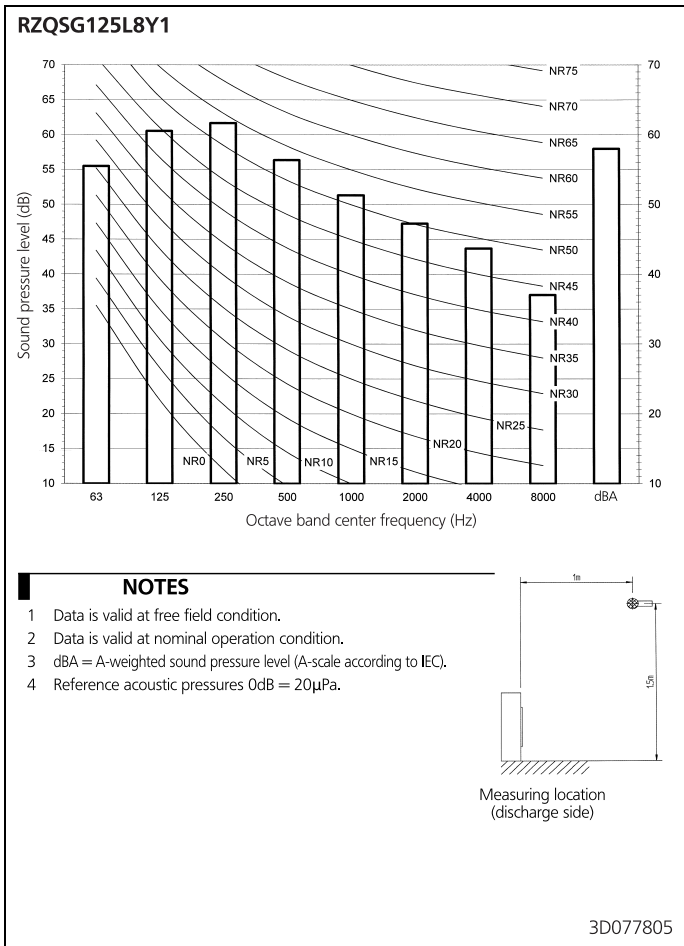
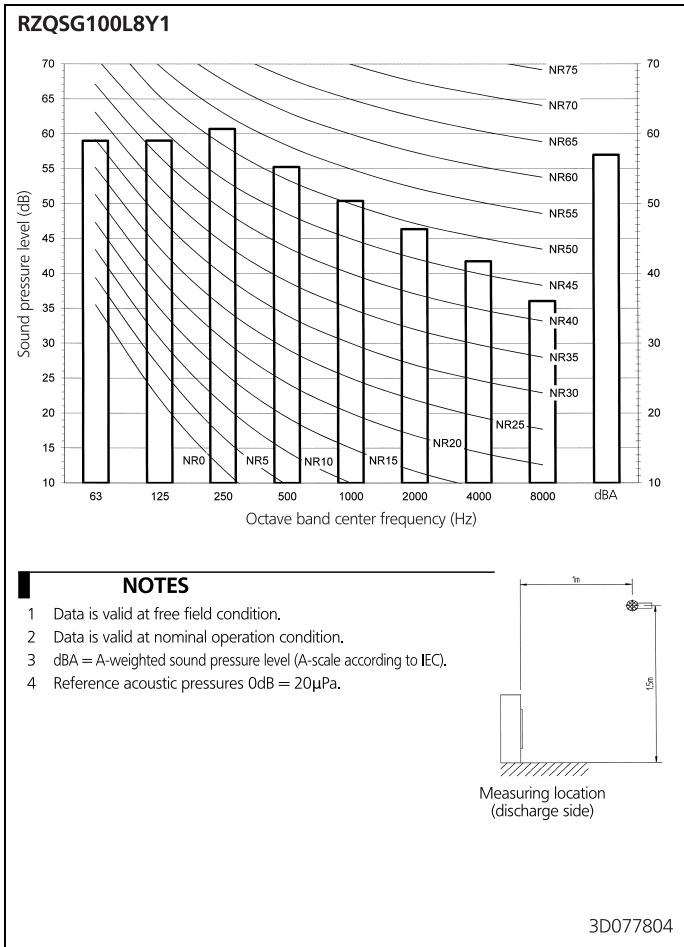
11 - 2 Sound Pressure Spectrum - Cooling



11 Sound data

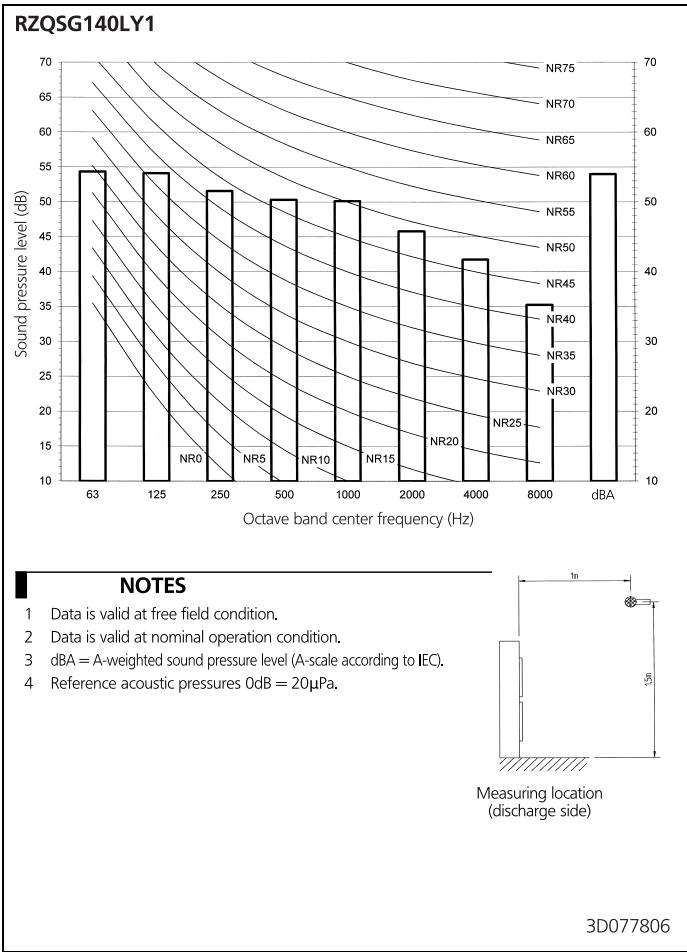
11 - 3 Sound Pressure Spectrum - Heating

11



11 Sound data

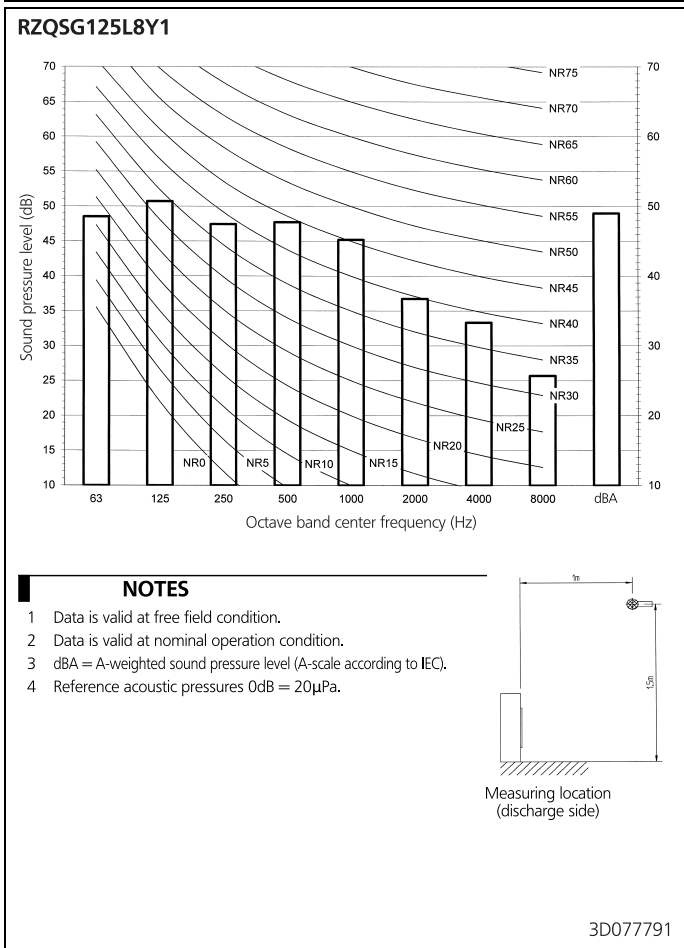
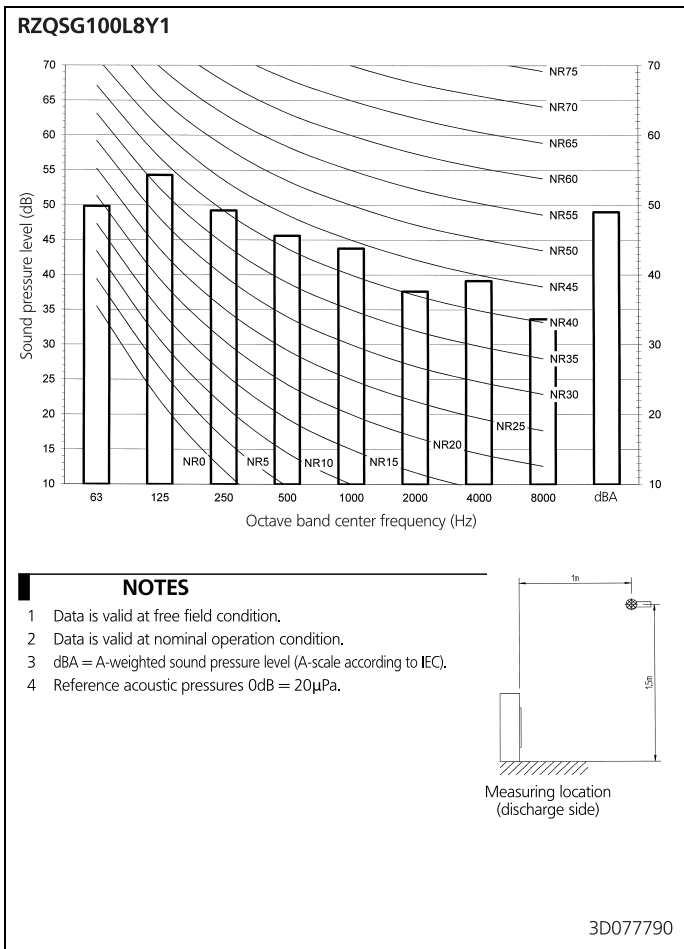
11 - 3 Sound Pressure Spectrum - Heating



11 Sound data

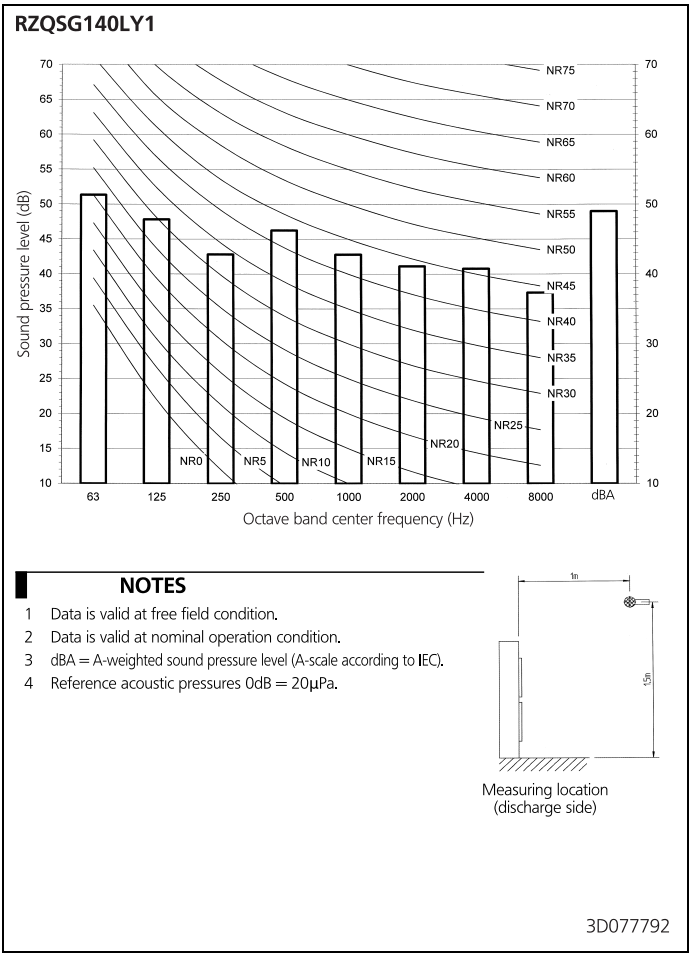
11 - 4 Sound Pressure Spectrum Quiet Mode

11



11 Sound data

11 - 4 Sound Pressure Spectrum Quiet Mode



12 Installation

12 - 1 Installation Method

12

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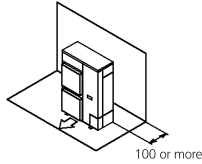
Installation service space

The measure of these values is "mm".

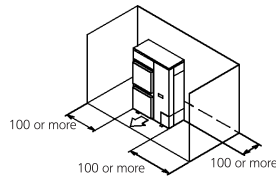
(A) When there are obstacles on suction sides.

• No obstacle above

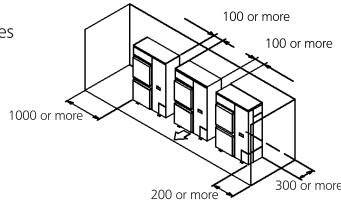
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides and suction side, too

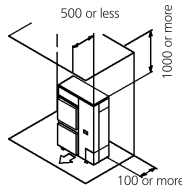


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides

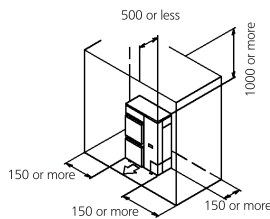


• Obstacle above, too.

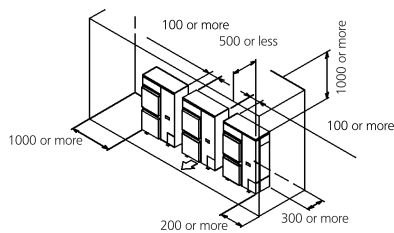
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on both sides and suction side, too



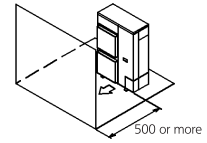
- ② Series installation (2 or more) (Note 1)
 - Obstacle on the suction side and both sides



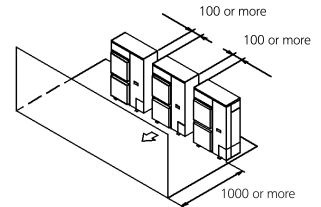
(B) When there are obstacles on discharge sides.

• No obstacle above

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

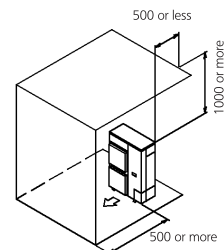


- ② Series installation (2 or more) (Note 1)
 - Obstacle on the discharge side only

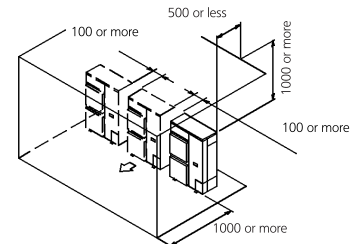


• Obstacle above, too

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



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



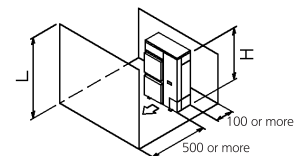
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

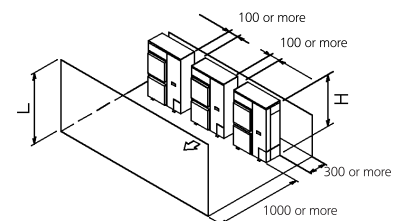
When the obstacles on the discharge side is higher than the unit. (L>H)
(There is no limit for the height of obstructions on the suction side.)

• No obstacle above

- ① Stand-alone installation
 - No obstacle above



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



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12 Installation

12 - 1 Installation Method

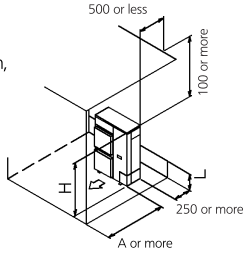
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● Obstacle above, too

- ① Stand-alone installation (Note 2)
 - When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

| | L | A |
|------------|---|--------------|
| $L \leq H$ | $L \leq 1/2 H$ | 750 or more |
| | $1/2 H < L \leq H$ | 1000 or more |
| $L > H$ | Set the stand as: $L \leq H$ Refer to the column of $L \leq H$ for A | |



- ② Series installation (2 or more) (Note 1, 2)
 - When there are obstacles on suction, discharge and top sides.

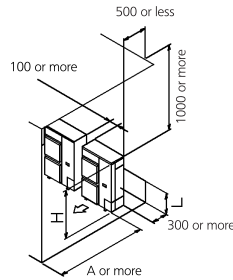
The relations between H, A and L are as follows.

| | L | A |
|------------|---|--------------|
| $L \leq H$ | $L \leq 1/2 H$ | 1000 or more |
| | $1/2 H < L \leq H$ | 1250 or more |
| $L > H$ | Set the stand as: $L \leq H$ Refer to the column of $L \leq H$ for A | |

Limit of series installation is 2 units.

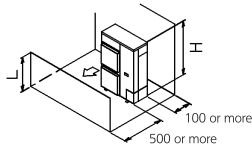
Pattern 2

When the obstacle on the discharge side is lower than the unit ($L \leq H$) (There is no limit for the height of obstructions on the suction side.)



● No obstacle above

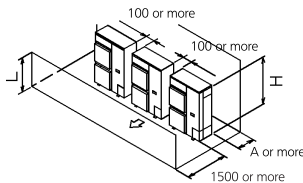
- ① Stand-alone installation
 - No obstacle above



- ② Series installation (2 or more) (Note 1)
 - When there are obstacles on both suction and discharge sides.

The relations between H, A and L are as follows.

| | L | A |
|------------|--------------------|-------------|
| $L \leq H$ | $L \leq 1/2 H$ | 250 or more |
| | $1/2 H < L \leq H$ | 300 or more |

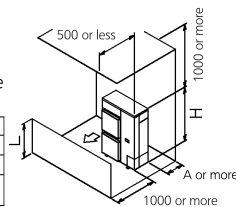


● Obstacle above, too

- ① Stand-alone installation (Note 2)
 - When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

| | L | A |
|------------|---|-------------|
| $L \leq H$ | $L \leq 1/2 H$ | 100 or more |
| | $1/2 H < L \leq H$ | 200 or more |
| $L > H$ | Set the stand as: $L \leq H$ Refer to the column of $L \leq H$ for A | |

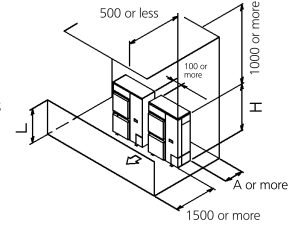


- ② Series installation (2 or more) (Note 1, 2)
 - When there are obstacles on suction, discharge and top sides.

The relations between H, A and L are as follows.

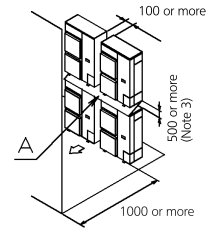
| | L | A |
|------------|---|-------------|
| $L \leq H$ | $L \leq 1/2 H$ | 250 or more |
| | $1/2 H < L \leq H$ | 300 or more |
| $L > H$ | Set the stand as: $L \leq H$ Refer to the column of $L \leq H$ for A | |

Limit of series installation is 2 units.

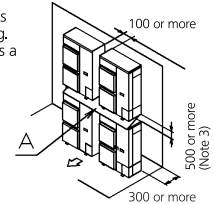


(D) Double-decker installation

- ① Obstacle on the discharge side. (Note 1)
 - Do not exceed two levels for stacked installation.
 - Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
 - Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.

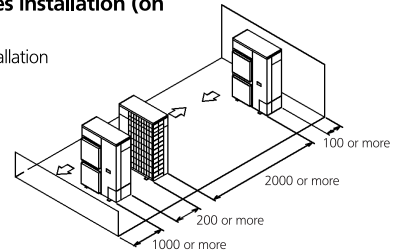


- ② Obstacle on the suction side. (Note 1)
 - Do not exceed two levels for stacked installation.
 - Install a roof cover similar to A (field supply), as outdoor units with downward drainage are prone to dripping and freezing.
 - Install the upper-level outdoor unit so that its bottom plate is a sufficient height above the roof cover. This is to prevent the buildup of ice on the underside of the bottom plate.



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

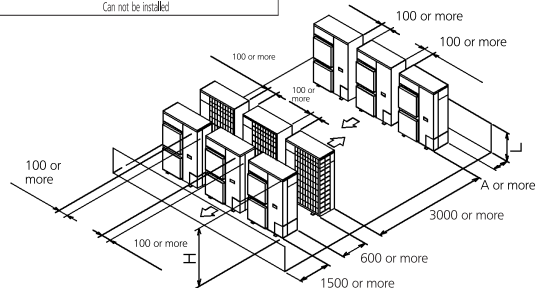
- ① One row of stand-alone installation



- ② Rows of series installation (2 or more)

The relations between H, A and L are as follows.

| | L | A |
|------------|----------------------|-------------|
| $L \leq H$ | $L \leq 1/2 H$ | 250 or more |
| | $1/2 H < L \leq H$ | 300 or more |
| $L > H$ | Can not be installed | |



NOTES

- In case of the sideways's piping, make a 100mm gap between the unit above.
- Close the bottom of the installation frame to prevent the discharged air from being bypassed.
- It is not necessary to install a roof cover if there is no danger of drainage dripping and freezing. In this case, the space between the upper and lower outdoor units should be at least 100mm. (Close off the gap between the upper and lower units so there is no reintake of discharged air.)

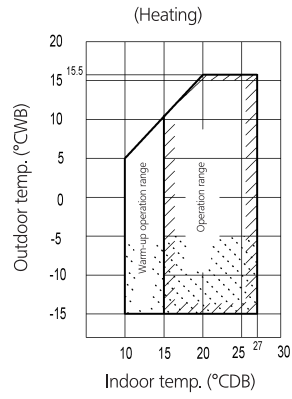
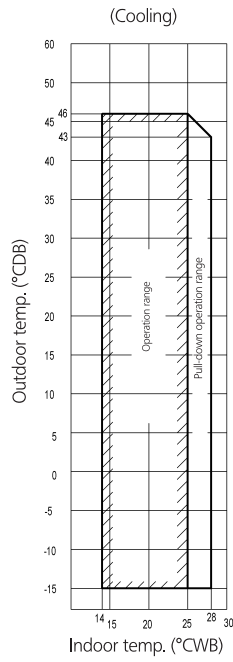
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13 Operation range


13 - 1 Operation Range

13

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Notes:

- 1 Depending on operation and installation conditions, the outdoor unit can change over to defrost operation (anti freeze-up).
- 2 To reduce the defrost operation (anti freeze-up) frequency it is recommended to install the outdoor unit in a location not exposed to wind.
- 3 In case of high humidity conditions (>92%) in this  operation area, an RZQG model should be used instead of an RZQSG model. This to avoid freeze-up of the outdoor unit.

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