

VRV IV S-series heat pump Technical data book RXYSQ-TY9



RXYSQ4T8YB9
RXYSQ5T8YB9
RXYSQ6T8YB9

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RXYSQ-TY9

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1 Features

1 - 1 RXYSQ-TY9

Space saving solution without compromising on efficiency

1

- › By choosing a LOOP by Daikin product you support the reuse of refrigerant, for more information visit www.daikin.eu/loop-by-daikin
- › Space saving trunk design for flexible installation
- › Covers all thermal needs of a building via a single point of contact: accurate temperature control, ventilation, air handling units and Biddle air curtains
- › Wide range of indoor units: either connect VRV or stylish indoor units such as Daikin Emura, Perfera ...
- › Incorporates VRV IV standards & technologies: Variable Refrigerant Temperature and full inverter compressors
- › Customize your VRV for best seasonal efficiency & comfort with the weather dependant Variable Refrigerant Temperature function. Increased seasonal efficiency with up to 28%. No more cold draft by supply of high outblow temperatures
- › 3 steps in night quiet mode to reduce sound levels at night
- › Possibility to limit peak power consumption between 30 and 80%, for example during periods with high power demand
- › Connectable to all VRV control systems
- › Keep your system in top condition via the Daikin Cloud Service: 24/7 monitoring for maximum efficiency, extended lifetime and immediate service support thanks to failure prediction



Inverter

2 Specifications

1 - 1 RXYSQ-TY9

| Technical Specifications | | | | | RXYSQ4TY9 | RXYSQ5TY9 | RXYSQ6TY9 |
|--|----------------------------|--|-------|------|-----------------------------------|-----------------|-----------------------------------|
| Recommended combination | | | | | 3 x FXSQ25A2VEB + 1 x FXSQ32A2VEB | 4 x FXSQ32A2VEB | 2 x FXSQ32A2VEB + 2 x FXSQ40A2VEB |
| Cooling capacity | Prated,c | | kW | | 12.1 (1) | 14.0 (1) | 15.5 (1) |
| Heating capacity | Nom. | 6°CWB | kW | | 12.1 (2) | 14.0 (2) | 15.5 (2) |
| | Prated,h | | kW | | 8.0 | 9.2 | 10.2 |
| | Max. | 6°CWB | kW | | 14.2 (2) | 16.0 (2) | 18.0 (2) |
| Power input - 50Hz | Heating | Nom. | 6°CWB | kW | 2.68 (2) | 3.27 (2) | 3.97 (2) |
| COP at nom. capacity | 6°CWB | | kW/kW | | 4.52 | 4.28 | 3.90 |
| ESEER - Automatic | | | | | 7.89 | 7.49 | 6.73 |
| ESEER - Standard | | | | | 6.18 | 5.77 | 5.23 |
| SCOP | | | | | 3.9 | 4.2 | 4.4 |
| SEER | | | | | 6.8 | 6.6 | 6.8 |
| ηs,c | | | | | % | 269.2 | 260.5 |
| ηs,h | | | | | % | 154.4 | 164.5 |
| Space cooling | A Condition (35°C - 27/19) | EERd | | | 3.1 | 2.6 | |
| | | Pdc | kW | | 12.1 | 14.0 | 15.5 |
| | B Condition (30°C - 27/19) | EERd | | | 5.2 | 4.8 | |
| | | Pdc | kW | | 8.9 | 10.3 | 11.4 |
| | C Condition (25°C - 27/19) | EERd | | | 9.3 | 8.9 | 9.1 |
| | | Pdc | kW | | 5.7 | 6.6 | 7.3 |
| | D Condition (20°C - 27/19) | EERd | | | 13.0 | 14.2 | 15.1 |
| | | Pdc | kW | | 4.3 | 4.5 | 4.6 |
| Space heating (Average climate) | TBivalent | COPd (declared COP) | | | 2.4 | | 2.5 |
| | | Pd _h (declared heating cap) | | | 8.0 | 9.2 | 10.2 |
| | | T _{biv} (bivalent temperature) °C | | | -10 | | |
| | TOL | COPd (declared COP) | | | 2.4 | | 2.5 |
| | | Pd _h (declared heating cap) | | | 8.0 | 9.2 | 10.2 |
| | | T _{ol} (temperature operating limit) °C | | | -10 | | |
| | A Condition (-7°C) | COPd (declared COP) | | | 2.7 | 2.8 | 2.9 |
| | | Pd _h (declared heating cap) | | | 7.0 | 8.1 | 9.0 |
| | B Condition (2°C) | COPd (declared COP) | | | 3.6 | 3.8 | 4.0 |
| | | Pd _h (declared heating cap) | | | 4.3 | 5.0 | 5.5 |
| | C Condition (7°C) | COPd (declared COP) | | | 5.7 | 6.1 | 6.5 |
| | | Pd _h (declared heating cap) | | | 3.4 | 3.5 | 3.6 |
| | D Condition (12°C) | COPd (declared COP) | | | 7.0 | 7.6 | 8.1 |
| | | Pd _h (declared heating cap) | | | 4.1 | | 4.3 |
| Capacity range | HP | | | | 4 | 5 | 6 |
| PED | Category | | | | Category I | | |
| | Most critical part | Name | | | Compressor | | |
| | | Ps*V | Bar*I | | | 167 | |
| Maximum number of connectable indoor units | | | | | 64 (3) | | |
| Indoor index connection | Min. | | | | 50.0 | 62.5 | 70.0 |
| | Max. | | | | 130.0 | 162.5 | 182.0 |
| Dimensions | Unit | Height | | | mm | | |
| | | Width | | | mm | | |
| | | Depth | | | mm | | |
| | Packed unit | Height | | | mm | | |
| | | Width | | | mm | | |
| | | Depth | | | mm | | |
| | | Weight | | | kg | | |
| Weight | Unit | | | | kg | | |
| | Packed unit | | | | kg | | |
| Packing | Material | | | | Carton | | |
| | Weight | | | | kg | | |
| Packing 2 | Material | | | | Wood | | |
| | Weight | | | | kg | | |
| Packing 3 | Material | | | | Plastic | | |
| | Weight | | | | kg | | |
| Casing | Colour | | | | Daikin White | | |
| | Material | | | | Painted galvanized steel plate | | |
| Heat exchanger | Type | | | | Cross fin coil | | |
| | Indoor side | | | | Air | | |
| | Outdoor side | | | | Air | | |
| | Air flow rate | Cooling | Rated | m³/h | 6,360 | | |
| | | Heating | Rated | m³/h | 6,360 | | |
| Fan | Quantity | | | | 2 | | |

2 Specifications

1 - 1 RXYSQ-TY9

2

| Technical Specifications | | | | | RXYSQ4TY9 | RXYSQ5TY9 | | RXYSQ6TY9 | |
|--|---------------------------|---------|--------|----|--------------------------------------|------------------|--|------------------|--|
| Fan motor | Quantity | | | | 2 | | | | |
| | Type | | | | DC motor | | | | |
| | Output W | | | | 70 | | | | |
| Compressor | Quantity | | | | 1 | | | | |
| | Type | | | | Hermetically sealed swing compressor | | | | |
| | Crankcase heater W | | | | 33 | | | | |
| Operation range | Cooling | Min. | °CDB | | -5.0 | | | | |
| | | Max. | °CDB | | 46.0 | | | | |
| | Heating | Min. | °CWB | | -20.0 | | | | |
| Operation range | Heating | Max. | °CWB | | 15.5 | | | | |
| Sound power level | Cooling | Nom. | dBA | | 68.0 (4) | 69.0 (4) | | 70.0 (4) | |
| Sound pressure level | Cooling | Nom. | dBA | | 50.0 (5) | 51.0 (5) | | | |
| Refrigerant | Type | | | | R-410A | | | | |
| | GWP | | | | 2,087.5 | | | | |
| | Charge TCO2Eq | | | | 7.5 | | | | |
| | Charge kg | | | | 3.6 | | | | |
| Refrigerant oil | Type | | | | Synthetic (ether) oil FVC50K | | | | |
| Piping connections | Liquid | Type | | | | Flare connection | | | |
| | | OD | mm | | | 9,52 | | | |
| | Gas | Type | | | | Flare connection | | Braze connection | |
| | | OD | mm | | | 15.9 | | 19.1 | |
| | Total piping length | System | Actual | m | | 300 (6) | | | |
| Defrost method | | | | | Reversed cycle | | | | |
| Capacity control | Method | | | | Inverter controlled | | | | |
| Indication if the heater is equipped with a supplementary heater | | | | | no | | | | |
| Supplementary heater | Back-up capacity | Heating | elbu | kW | 0.0 | | | | |
| Power consumption in other than active mode | Crankcase heater | Cooling | PCK | kW | 0.000 | | | | |
| | | Heating | PCK | kW | 0.049 | | | | |
| | Off mode | Cooling | POFF | kW | 0.039 | | | | |
| | | Heating | POFF | kW | 0.049 | | | | |
| | Standby mode | Cooling | PSB | kW | 0.039 | | | | |
| | | Heating | PSB | kW | 0.049 | | | | |
| | Thermostat-off mode | Cooling | PTO | kW | 0.000 | | | | |
| | | Heating | PTO | kW | 0.049 | | | | |
| Cooling | Cdc (Degradation cooling) | | | | 0.25 | | | | |
| Heating | Cdh (Degradation heating) | | | | 0.25 | | | | |
| Safety devices | Item | 01 | | | High pressure switch | | | | |
| | | 02 | | | Fan driver overload protector | | | | |
| | | 03 | | | Inverter overload protector | | | | |
| | | 04 | | | PC board fuse | | | | |

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Operation manual; Quantity: 1;

Standard accessories: Connection pipes; Quantity: 1;

| Electrical Specifications | | | | RXYSQ4TY9 | RXYSQ5TY9 | RXYSQ6TY9 |
|---------------------------|---------------------------------|----------|----|------------------------------|-----------|-----------|
| Power supply | Name | | | Y1 | | |
| | Phase | | | 3N~ | | |
| | Frequency | | Hz | 50 | | |
| | Voltage | | V | 380-415 | | |
| Power supply intake | | | | Both indoor and outdoor unit | | |
| Voltage range | Min. | | % | -10 | | |
| | Max. | | % | 10 | | |
| Current | Nominal running current (RLA) | Cooling | A | 4.44 (7) | 5.55 (7) | 6.84 (7) |
| Current - 50Hz | Starting current (MSC) - remark | | | See note 8 | | |
| | Zmax | List | | No requirements | | |
| | Minimum circuit amps (MCA) | | A | 14.1 (8) | | |
| | Maximum fuse amps (MFA) | | A | 16 (9) | | |
| | Total overcurrent amps (TOCA) | | A | 14.1 (10) | | |
| | Full load amps (FLA) | Total | A | 0.6 (11) | | |
| | | | | | | |
| Wiring connections - 50Hz | For power supply | Quantity | | 5G | | |
| | For connection with indoor | Quantity | | 2 | | |
| | | Remark | | F1,F2 | | |

(1)Cooling: indoor temp. 27°CDB; 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m |

(2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m |

(3)Actual number of units depends on the indoor unit type (VRV DX indoor, RA DX indoor, etc.) and the connection ratio restriction for the system (being; 50% ≤ CR ≤130%). |

(4)Sound power level is an absolute value that a sound source generates. |

2 Specifications

1 - 1 RXYSQ-TY9

(5) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. |

(6) Refer to refrigerant pipe selection or installation manual |

(7) RLA is based on following conditions: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB |

(8) MCA must be used to select the correct field wiring size. The MCA can be regarded as the maximum running current. |

(9) MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth leakage circuit breaker). |

(10) TOCA means the total value of each OC set. |

(11) FLA means the nominal running current of the fan |

MSC means the maximum current during start up of the compressor. VRV IV uses only inverter compressors. Starting current is always \leq max. running current. |

The automatic ESEER value corresponds with normal VRV IV-S heat pump operation, including the advanced energy saving functionality (variable refrigerant temperature control). |

The standard ESEER value corresponds with normal VRV IV-S heat pump operation, not taking into account the advanced energy saving functionality. |

Sound values are measured in a semi-anechoic room. |

Maximum allowable voltage range variation between phases is 2%. |

Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |

For detailed contents of standard accessories, see installation/operation manual |

EN/IEC 61000-3-12: European/international technical standard setting the limits for harmonic currents produced by equipment connected to public low-voltage system with input current $> 16\text{A}$ and $\leq 75\text{A}$ per phase |

Ssc: Short-circuit power

3 Options

3 - 1 Options

RXYSQ-TY1

RXYSQ-TY9

RXYSQ-TV9

VRV4-S

Heat pump

Option list

| Nr. | Item | RXYSQ4~6TMV1B | RXYSQ4~6T7V1B RXYSQ4~6T8VB(9) | RXYSQ4~6T7Y1B RXYSQ4~6T8YB(9) | RXYSQ8~12TMY1B | RXYSQ6T7Y1B9 RXYSQ6T8Y1B9 | RXYSQ6TMYFK |
|-----|---------------------------------|---------------|----------------------------------|----------------------------------|----------------|------------------------------|-------------|
| I. | Refnet header | - | - | - | KHRQ22M64H | - | KHRQ22M64H |
| | | | | | KHRQ22M20T | | |
| II. | Refnet joint | - | - | - | KHRQ22M29T9 | - | KHRQ22M29T9 |
| | | - | - | - | KHRQ22M64T | - | KHRQ22M64T |
| 1a. | Cool/heat selector (switch) | - | KRC19-26 | - | - | KRC19-26 | - |
| 1b. | Cool/heat selector (fixing box) | - | KJB111A | - | - | KJB111A | - |
| 1c. | Cool/heat selector (PCB) | - | EBRP2B | - | - | - | - |
| 1d. | Cool/heat selector (cable) | - | - | EKCHSC | - | EKCHSC | - |
| 2. | Drain plug kit | - | EKDK04 | - | - | EKDK04 | - |
| 3. | VRV configurator | | | | EKPCCAB* | | |
| 4. | Demand PCB | | | | DTA104A61/62* | | |
| 5. | Branch provider - ·2· rooms | | BPMKS967A2 | | - | - | - |
| 6. | Branch provider - ·3· rooms | | BPMKS967A3 | | - | - | - |

Notes

1. All options are kits
2. To mount option ·1a·, option ·1b· is required.
3. For ·RXYSQ4~6T7V1B·
For ·RXYSQ4~6T8VB·
To operate the cool/heat selector function, options ·1a· and ·1c· are both required.
4. For ·RXYSQ4~6T7Y1B·
For ·RXYSQ4~6T8YB·
To operate the cool/heat selector function, options ·1a· and ·1d· are both required.

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4 Combination table

4 - 1 Combination Table

RXYSQ-TY9
RXYSQ-TV9
RXYSQ-TY1
RXYSQ-TV1

VRV4-S
Heat pump
·RA/SA DX· indoor unit
Compatibility list

| Configuration | | | Indoor unit type | |
|------------------|-----------------|---------|------------------|---------|
| ·RA· indoor unit | Wall-mounted | Emura | FTXJ20M (W/S) | |
| | | | FTXJ25M (W/S) | |
| | | | FTXJ35M (W/S) | |
| | | | FTXJ50M (W/S) | |
| | | FTXM | FTXM20N | |
| | | | FTXM25N | |
| | | | FTXM35N | |
| | | | FTXM42N | |
| | | | FTXM50N | |
| | | | FTXM60N | |
| | | | FTXM71N | |
| | | CTXM | CTXM15M | |
| | | Stylish | FTXA20 | |
| | | | FTXA25 | |
| | FTXA35 | | | |
| | FTXA42 | | | |
| | FTXA50 | | | |
| | Floor-standing | Flex | FLXS25B | |
| | Ceiling-mounted | | FLXS35B | |
| | | | FLXS50B | |
| | | | FLXS60B | |
| | Floor-standing | FVXM | FVXM25F | |
| | | | FVXM35F | |
| | | | FVXM50F | |
| | | | CVXM20A | |
| | | | FVXM25A | |
| FVXM35A | | | | |
| FVXM50A | | | | |
| FVXM60A | | | | |
| Nexura | | FVXG25K | | |
| | | FVXG35K | | |
| | | FVXG50K | | |
| | | Duct | FDXM | FDXM25F |
| FDXM35F | | | | |
| FDXM50F | | | | |
| FDXM60F | | | | |

Remark

- The limitations on the use of ·RA/SA· indoor units with the ·VRV4-S· Heat Pump are subject to the rules set out in drawings ·3D097983· and ·3D097984·.

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RXYSQ-TY9
RXYSQ-TV9
RXYSQ-TY1

VRV4-S
Heat pump
Indoor unit combination restrictions

| Indoor unit combination pattern | ·VRV* DX· indoor unit | ·RA DX· indoor unit | Hydrobox unit | Air handling unit (AHU) ⁽¹⁾ |
|--|-----------------------|---------------------|---------------|--|
| ·VRV* DX· indoor unit | O | X | X | O |
| ·RA DX· indoor unit | X | O | X | X |
| Hydrobox unit | X | X | X | X |
| Air handling unit (AHU) ⁽¹⁾ | O | X | X | O ₁ |

O: Allowed
X: Not allowed

Notes

1. O₁

- Combination of ·AHU· only + control box ·EKEQFA· (not combined with ·VRV DX· indoor units)
 - ·X·-control is possible [·EKEQV+EKEQFA*· boxes]. No Variable Refrigerant Temperature control possible.
 - ·Y·-control is possible [·EKEQV+EKEQFA*· boxes]. No Variable Refrigerant Temperature control possible.
 - ·W·-control is possible [·EKEQV+EKEQFA*· boxes]. No Variable Refrigerant Temperature control possible.
- Combination of ·AHU· only + control box ·EKEQMA· (not combined with ·VRV DX· indoor units)
 - Z-control is possible (the allowed number of [·EKEQV + EKEQMA· boxes] is determined by the connection ratio (·90-110%·) and the capacity of the outdoor unit).
- Combination of ·AHU· and ·VRV DX· indoor units
 - Z-control is possible (·EKEQMA*· boxes are allowed, but with a limited connection ratio).
- (1) The following units are considered AHUs:
 - ·EKEQV + EKEQ(MA/FA) + AHU· coil
 - ·Biddle· air curtain
 - ·FXMQ_MF· units

Information

- VKM· units are considered regular ·VRV DX· indoor units.

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4 Combination table

4 - 1 Combination Table

4

RXYSQ-TY9

RXYSQ-TV9

RXYSQ-TY1 VRV4-S

Heat pump

Indoor unit combination restrictions

| Combination table | RXYSQ4~6TMV1B | RXYSQ4~6T7V1B | RXYSQ4~6T7Y1B | RXYSQ8~12TMY1B |
|--|---------------|---------------|---------------|----------------|
| ·VRV* DX· indoor unit | O | O | O | O |
| ·RA DX· indoor unit | O | O | O | O |
| Hydrobox unit | X | X | X | X |
| Air handling unit (AHU) ⁽²⁾ | O | O | O | O |

O: Allowed

X: Not allowed

Notes

(2) The following units are considered AHUs:

- ·EKEXV + EKEQ(MA/FA) + AHU· coil
- ·Biddle· air curtain
- ·FXMQ_MF· units

3D097983A

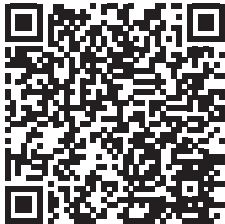
5 Capacity tables

5 - 1 Capacity Table Legend

In order to fulfill more your requirements on quick access of data in the format you require, we have developed a tool to consult capacity tables.

Below you can find the link to the capacity table database and an overview of all the tools we have to help you select the correct product:

- **Capacity table database:** lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
- You can access the capacity table viewer here:
https://my.daikin.eu/content/denv/en_US/home/applications/software-finder/capacity-table-viewer.html



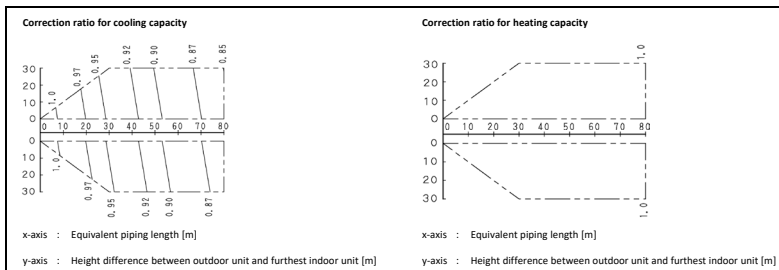
- An overview of **all software tools** that we offer can be found here:
https://my.daikin.eu/denv/en_US/home/applications/software-finder.html



5 Capacity tables

5 - 2 Capacity Correction Factor

RXYSQ4-6TV
RXYSQ4-6TY
RXYSQ4-6TV1
RXYSQ4-6TY1
RXYSQ4-6TV9
RXYSQ4-6TY9



Notes

- These figures illustrate the capacity correction factor due to the piping length for a standard indoor unit system at maximum load (with the thermostat set to maximum), under standard conditions. Moreover, under partial load conditions, there is only a minor deviation for the capacity correction ratio, as shown in the above figures.
- With this outdoor unit, the following control is used:- in case of cooling: constant evaporating pressure control- in case of heating: constant condensing pressure control
- Method of calculating the capacity of the outdoor units.**
The maximum capacity of the system will be either the total capacity of the indoor units or the maximum capacity of the outdoor units as mentioned below, whichever is less.

Indoor connection ratio ≤ 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at 100\% connection ratio.} \times \text{Correction ratio of piping to furthest indoor unit}$$

Indoor connection ratio > 100%.

$$\text{Maximum capacity of outdoor units} = \text{Capacity of outdoor units from capacity table at installed connection ratio.} \times \text{Correction ratio of piping to furthest indoor unit.}$$

- When the overall equivalent piping length is 90 m or more, the diameter of the main gas pipes (outdoor unit - branch sections) must be increased. For the new diameters, see below.

| Model | Standard liquid side Ø | Increased liquid side Ø | Standard gas side Ø | Increased gas side Ø |
|-----------|------------------------|-------------------------|---------------------|----------------------|
| 4HP / 5HP | 9,5 | Not increased | 15,9 | 19,1 |
| 6 HP | 9,5 | Not increased | 19,1 | 22,2 |

- Overall equivalent length

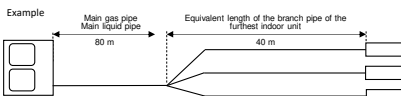
$$\text{Overall equivalent length} = \text{Equivalent length of the main pipe} \times \text{Correction factor} + \text{Equivalent length of the branch pipes}$$

Choose the correction factor from the following table.

When calculating the cooling capacity: gas pipe size

When calculating the heating capacity: liquid pipe size

| | Standard size | Size increase |
|-----------------------|---------------|---------------|
| Cooling (gas pipe) | 1,0 | 0,5 |
| Heating (liquid pipe) | 1,0 | 0,5 |



Overall equivalent length

- Cooling mode = 80 m x 0,5 + 40 m = 80 m
- Heating mode = 80 m x 0,5 + 40 m = 80 m

Capacity correction ratio (height difference = 0)

- Cooling mode = 0,86
- Heating mode = 1,00

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5 Capacity tables

5 - 2 Capacity Correction Factor

RXYSQ-TY1

RXYSQ-TY9

RXYSQ-TV9

MINI VRV

Integrated heating capacity coefficient

The heating capacity tables do not take into account the capacity reduction in case of frost accumulation or defrost operation.
The capacity values that take these factors into account, or in other words, the integrated heating capacity values, can be calculated as follows:

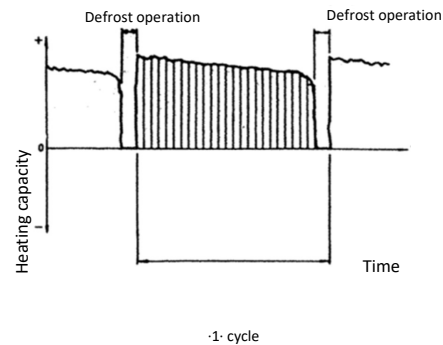
Formula

A = Integrated heating capacity
B = Capacity characteristics value
C = Integrated correction factor for frost accumulation (see table)

$$A = B \cdot C$$

Inlet air temperature of heat exchanger

| [°CDB/°CWB] | -7/-7.6 | -5/-5.6 | -3/-3.7 | 0/-0.7 | 3/2.2 | 5/4.1 | 7/6 |
|--------------|---------|---------|---------|--------|-------|-------|------|
| RXYSQ4TMV1B | | | | | | | |
| RXYSQ5TMV1B | | | | | | | |
| RXYSQ6TMV1B | | | | | | | |
| RXYSQ4T7V1B | | | | | | | |
| RXYSQ5T7V1B | | | | | | | |
| RXYSQ6T7V1B | | | | | | | |
| RXYSQ4T7Y1B | | | | | | | |
| RXYSQ5T7Y1B | | | | | | | |
| RXYSQ6T7Y1B | | | | | | | |
| RXYSQ6T7Y1B9 | | | | | | | |
| RXYSQ4T8VB | | | | | | | |
| RXYSQ5T8VB | 0,88 | 0,86 | 0,80 | 0,75 | 0,76 | 0,82 | 1,00 |
| RXYSQ6T8VB | | | | | | | |
| RXYSQ4T8YB | | | | | | | |
| RXYSQ5T8YB | | | | | | | |
| RXYSQ6T8YB | | | | | | | |
| RXYSQ6T8Y1B9 | | | | | | | |
| RXYSQ4T8VB9 | | | | | | | |
| RXYSQ5T8VB9 | | | | | | | |
| RXYSQ6T8VB9 | | | | | | | |
| RXYSQ4T8YB9 | | | | | | | |
| RXYSQ5T8YB9 | | | | | | | |
| RXYSQ6T8YB9 | | | | | | | |
| RXYSQ8TMY1B | 0,95 | 0,93 | 0,88 | 0,84 | 0,85 | 0,90 | 1,00 |
| RXYSQ10TMY1B | 0,95 | 0,93 | 0,87 | 0,79 | 0,80 | 0,88 | 1,00 |
| RXYSQ6TMYFK | 0,95 | 0,92 | 0,87 | 0,75 | 0,76 | 0,85 | 1,00 |
| RXYSQ12TMY1B | 0,95 | 0,92 | 0,87 | 0,75 | 0,76 | 0,85 | 1,00 |



Notes

- (1) The figure shows the integrated heating capacity for a single cycle (from one defrost operation to the next).
- (2) When there is an accumulation of snow against the outdoor unit heat exchanger, there will always be a temporary reduction in capacity depending on the outdoor temperature (°C DB), relative humidity (RH) and the amount of frosting which occurs.

3D09659D

6 Dimensional drawings

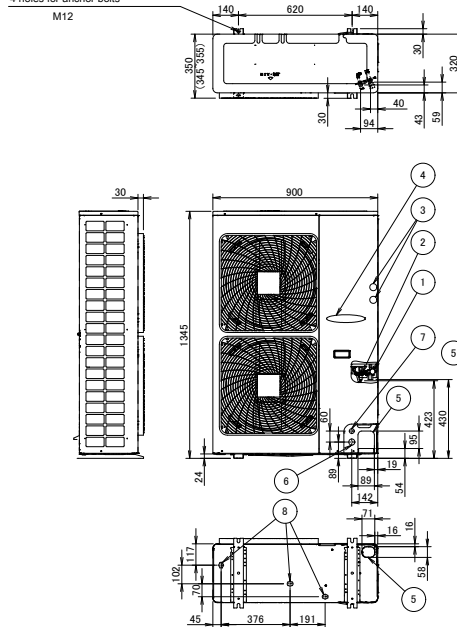
6 - 1 Dimensional Drawings

RXYSQ-TY9

RXYSQ-TV9

6

4 holes for anchor bolts
M12



| | |
|---|---|
| 1 | Gas pipe connection A |
| 2 | Liquid pipe connection Ø9.5 flare |
| 3 | (2X) Service port (in the unit) |
| 4 | Electronic connection and grounding terminal M5 (in the switch box) |
| 5 | Refrigerant piping intake |
| 6 | Power supply wiring intake (knockout hole Ø34) |
| 7 | Control wiring intake (knockout hole Ø27) |
| 8 | Drain outlet |

| Model | A |
|--------------|-------------------------|
| RMXS112E8V1B | Ø19.1 brazed connection |
| RMXS140E8V1B | Ø19.1 brazed connection |
| RMXS160E8V1B | Ø19.1 brazed connection |
| RXYSQ4PA7V1B | Ø15.9 flared connection |
| RXYSQ5PA7V1B | Ø15.9 flared connection |
| RXYSQ6PA7V1B | Ø19.1 brazed connection |
| ERX100A9V1B | Ø15.9 flared connection |
| ERX125A9V1B | Ø15.9 flared connection |
| ERX140A9V1B | Ø19.1 brazed connection |
| GCA100BD4 | Ø15.9 flared connection |
| GCA125BD4 | Ø15.9 flared connection |
| GCA140BD4 | Ø19.1 brazed connection |
| RXYSQ4PA7Y1B | Ø15.9 flared connection |
| RXYSQ5PA7Y1B | Ø15.9 flared connection |
| RXYSQ6PA7Y1B | Ø19.1 brazed connection |

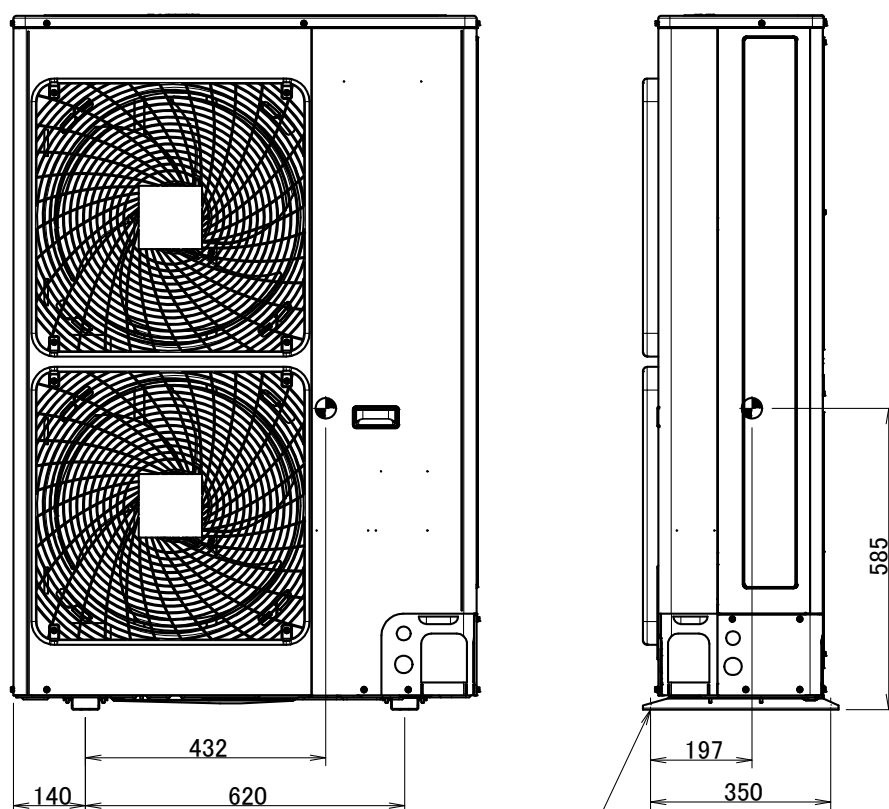
| Model | A | |
|-----------------------|-------------------------|-------------------------|
| | RA indoor unit | VRV indoor unit |
| RXYSQ4(P8/T7/T8)V(1)B | Ø19.1 brazed connection | Ø15.9 flared connection |
| RXYSQ5(P8/T7/T8)V(1)B | Ø19.1 brazed connection | Ø15.9 flared connection |
| RXYSQ6(P8/T7/T8)V(1)B | Ø19.1 brazed connection | |
| RXYSQ4(P8/T7/T8)Y(1)B | Ø19.1 brazed connection | Ø15.9 flared connection |
| RXYSQ5(P8/T7/T8)Y(1)B | Ø19.1 brazed connection | Ø15.9 flared connection |
| RXYSQ6(P8/T7/T8)Y(1)B | Ø19.1 brazed connection | |

3TW30374-1E

7 Centre of gravity

7 - 1 Centre of Gravity

RXYSQ-TY9



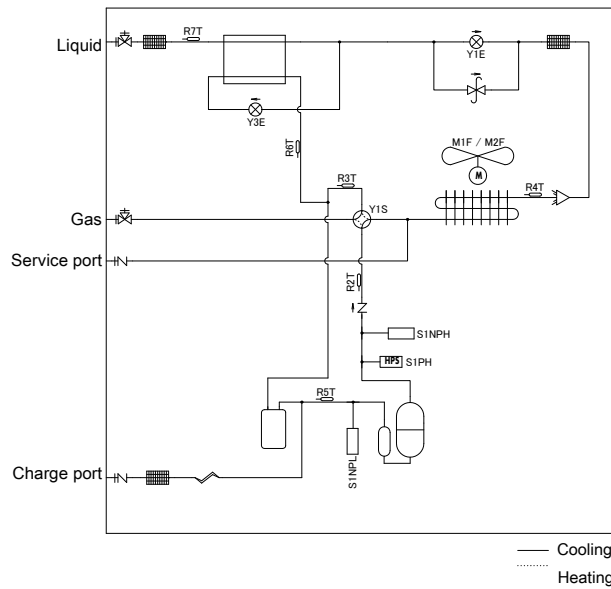
Foundation bolt hole

4D094635

8 Piping diagrams

8 - 1 Piping Diagrams

RXYSQ-TY9



- Charge port / Service port
- Stop valve
- Filter
- Check valve
- Pressure relief valve
- Thermistor
- Capillary tube
- Expansion valve
- 4-way valve
- Propeller fan
- High pressure switch
- Low pressure sensor
- High pressure sensor
- Accumulator
- Heat exchanger
- Compressor
- Compressor
- Accumulator
- Double tube heat exchanger
- Distributor

3D094631A






9 Wiring diagrams

9 - 1 Notes & Legend

RXYSQ-TY9

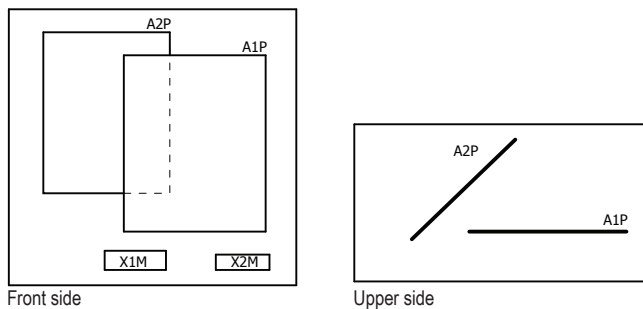
NOTES to go through before starting the unit

1. Symbols:

- X1M : Main terminal
 — : Earth wiring
 15 : Wire number 15
 - - - : Field wire
 : Field cable
 → **/12.2 : Connection ** continues on page 12 column 2
 ① : Several wiring possibilities
 : Option
 : Wiring depending on model
 : Not mounted in switch box
 : PCB

2. For X37A refer to the installation manual of the option.
 3. Refer to the installation or service manual on how to use BS1 ~ BS4 push buttons and DS1-1 ~ DS1-2 DIP switches.
 4. Do not operate the unit by short-circuiting protection device S1PH.
 5. Refer to the installation manual for indoor-outdoor transmission F1-F2 wiring.
 6. When using the central control system, connect outdoor-outdoor transmission F1-F2.

POSITION IN SWITCH BOX



LEGEND

| Part n° | Description | Part n° | Description |
|-----------|---|-----------|---|
| A1P | main PCB | R3T | thermistor (suction1) |
| A2P | inverter PCB | R4T | thermistor (heat exchanger) |
| BS* (A1P) | push buttons (mode, set, return, test ,reset) | R5T | thermistor (suction 2) |
| C* (A2P) | capacitors | R6T | thermistor (subcool heat ex) |
| DS1 (A1P) | dipswitch | R7T | thermistor (liquid) |
| E1HC | crankcase heater | R10T | thermistor (fin) |
| F1U (A1P) | fuse T 31,5 A 500 V | S1NPH | high pressure sensor |
| F2U (A1P) | fuse T 31,5 A 500 V | S1NPL | low pressure sensor |
| F1U (A2P) | fuse T 5 A 250 V | S1PH | high pressure switch |
| F3U (A1P) | fuse T 6.3 A 250 V | S1S | * air control switch |
| F4U (A1P) | fuse T 6.3 A 250 V | S2S | * cool / heat switch |
| F5U (A1P) | fuse T 6.3 A 250 V | V1R (A2P) | IGBT power module |
| HAP (A*P) | running LED (service monitor-green) | V2R (A2P) | diode module |
| H*P (A1P) | LED (service monitor-orange) | V3R (A2P) | diode module |
| K1M (A2P) | magnetic contactor | X37A | connector (power supply for option PCB) |
| K4R (A1P) | magnetic relay (E1HC) | X*A | PCB connector |
| K*R (A*P) | magnetic relay | X*M | terminal strip |
| L1R | reactor | X*Y | connector |
| M1C | motor (compressor) | Y1E | electronic expansion valve (main) |
| M1F | fan motor (upper) | Y3E | electronic expansion valve (subcool) |
| M2F | fan motor (lower) | Y1S | solenoid valve (4-way valve) |
| PS (A2P) | power supply | Z*C | noise filter (ferrit core) |
| Q1DI | # earth leakage circuit breaker | Z*F | noise filter |
| R* (A2P) | resistor | | |
| R1T | thermistor (air) | | |
| R2T | thermistor (discharge) | | |

* : optional
 # : field supply

4D094014E

9 - 2 Wiring Diagrams - Three Phase

4D094014E

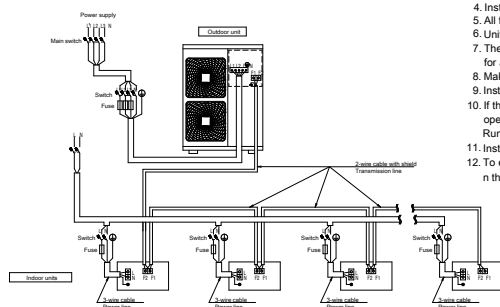
10 External connection diagrams

10 - 1 External Connection Diagrams

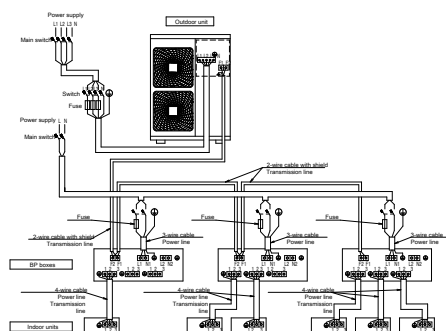
RXYSQ-TY9

External connection diagram

VRV indoor unit



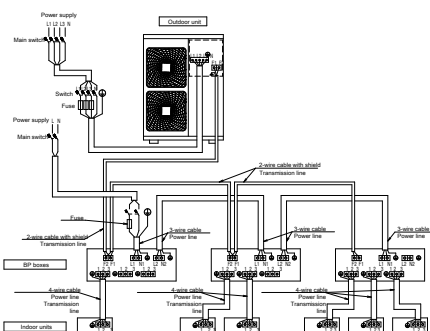
BP box + RA/SA indoor unit



Power source is supplied to each BP box individually.

Notes

1. All wiring, components and materials to be procured on-site must comply with the applicable legislation.
2. Use copper conductors only.
3. For more details, refer to the wiring diagram of the unit.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by an authorised electrician.
6. Unit has to be grounded in compliance with the applicable legislation.
7. The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation.
8. Make sure to install the switch and the fuse to the power line of each equipment.
9. Install a main switch to (if necessary) immediately interrupt all the system's power sources.
10. If there exists the possibility of reversed phase, loose phase or momentary blackout, or if the power goes on and off while the product is operating, attach a reversed phase protection circuit locally.
11. Running the product in reversed phase may break the compressor and other parts.
12. Install an earth leakage circuit breaker.
13. To ensure proper earthing, connect the shields of the incoming and outgoing transmission wiring of each indoor unit (or each BP box, depending on the system layout) to each other.



Power source is connected in series between the units.

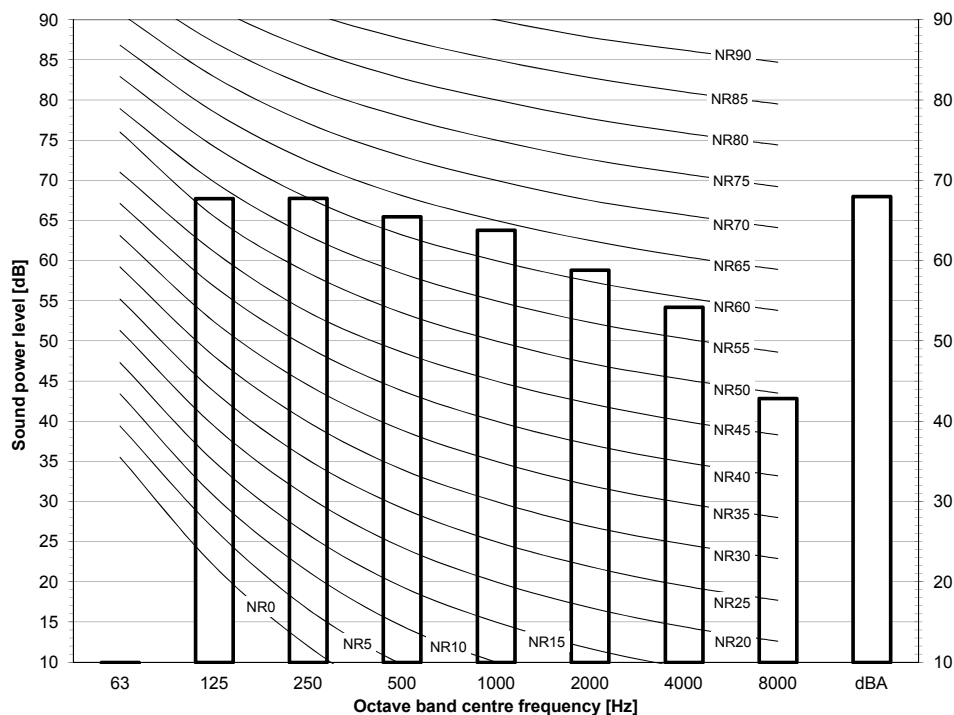
1D094667

11 Sound data

11 - 1 Sound Power Spectrum

11

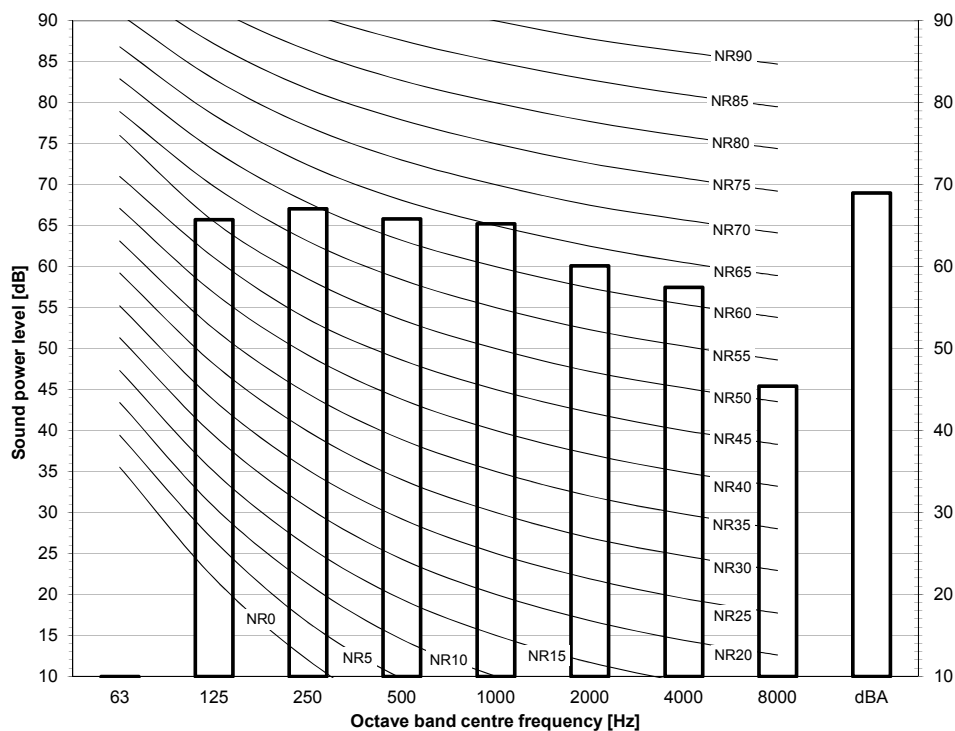
RXYSQ4TY9 RXYSQ4TV9



Notes
 - dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity 0dB = 10E-6μW/m²
 - Measured according to ISO 3744

3D098212

RXYSQ5TY9 RXYSQ5TV9



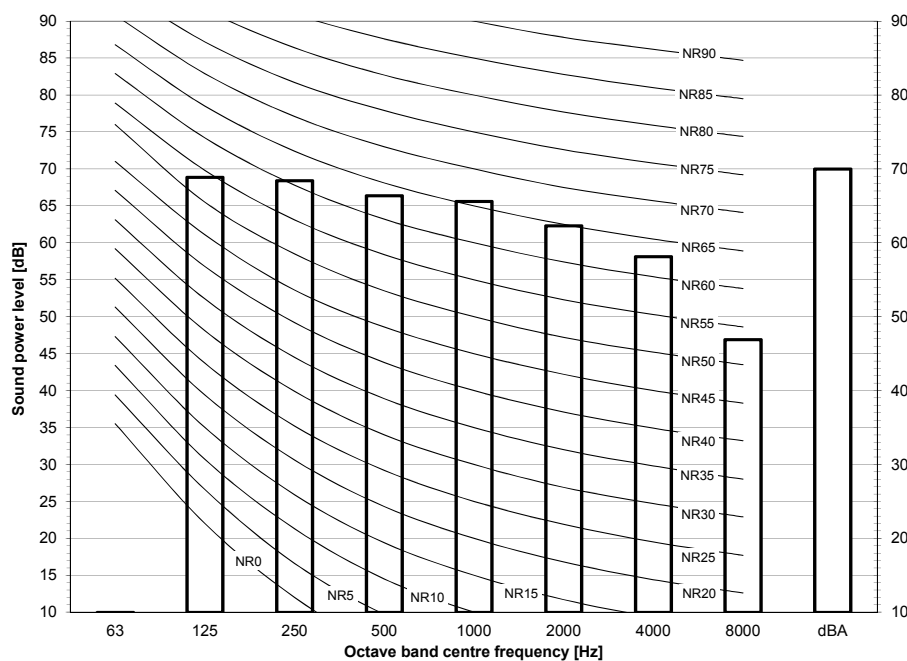
Notes
 - dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity 0dB = 10E-6μW/m²
 - Measured according to ISO 3744

3D098213

11 Sound data

11 - 1 Sound Power Spectrum

RXYSQ6TY9
RXYSQ6TV9



Notes

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

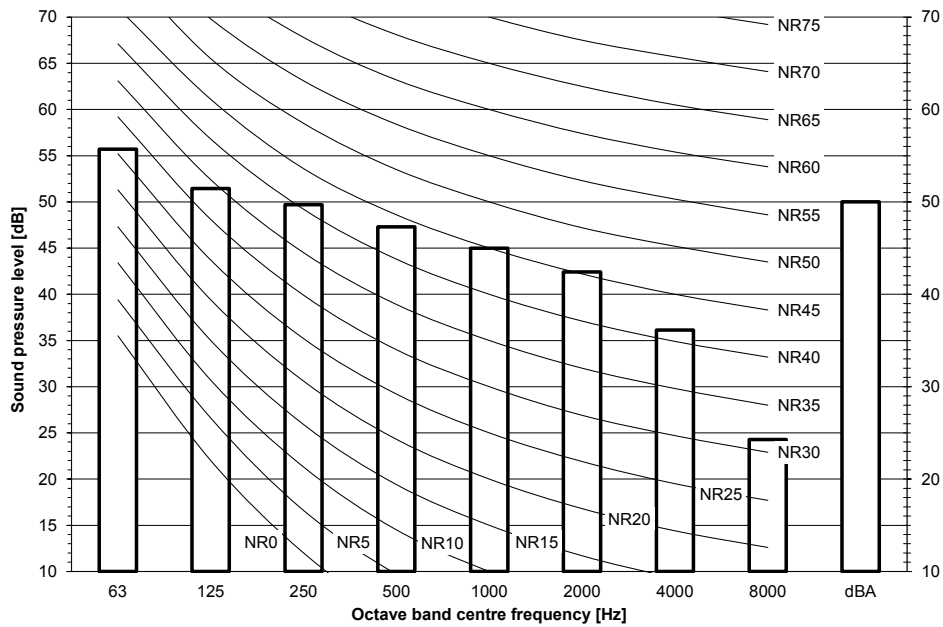
3D098214

11 Sound data

11 - 2 Sound Pressure Spectrum

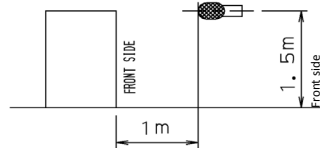
11

RXYSQ4TY9 RXYSQ4TV9



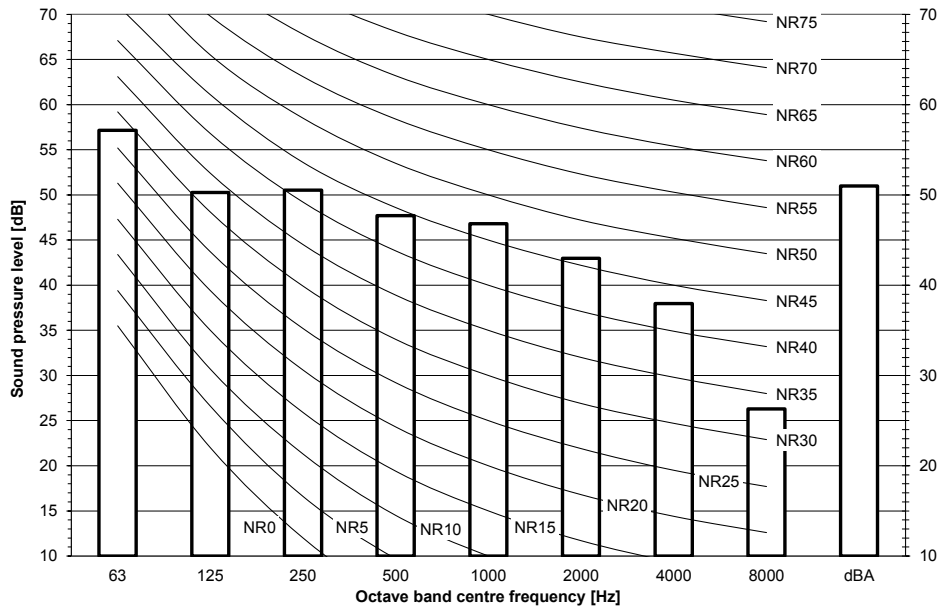
Notes

- 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 μ Pa



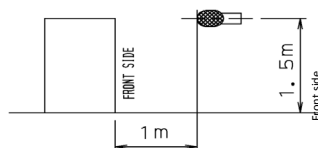
3D098215

RXYSQ5TY9 RXYSQ5TV9



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 μ Pa

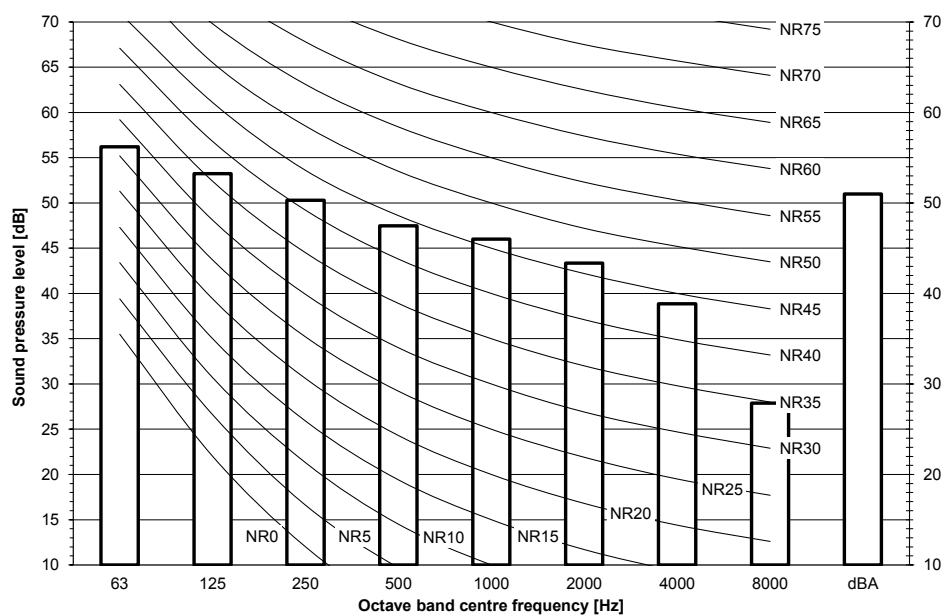


3D098216

11 Sound data

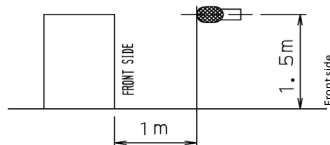
11 - 2 Sound Pressure Spectrum

RXYSQ6TY9
RXYSQ6TV9



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 μ Pa



3D098217

12 Installation

12 - 1 Installation Method

12

RXYSQ-TY9 RXYSQ-TV9

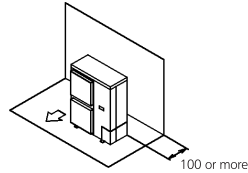
Required installation space

The unit of the values is mm.

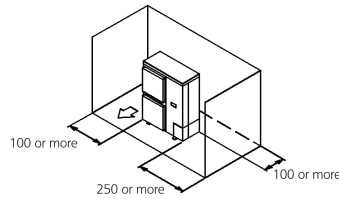
(A) When there are obstacles on suction sides.

• No obstacle above

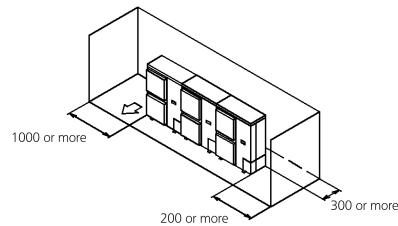
- ① Stand-alone installation
 - Obstacle on the suction side only



- Obstacle on both sides

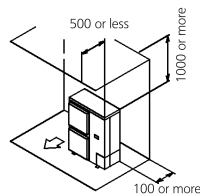


- ② Series installation (2 or more)
 - Obstacle on both sides

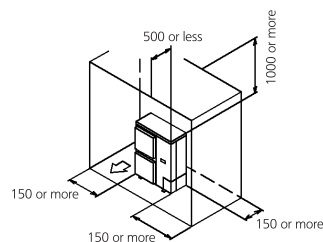


• Obstacle above, too.

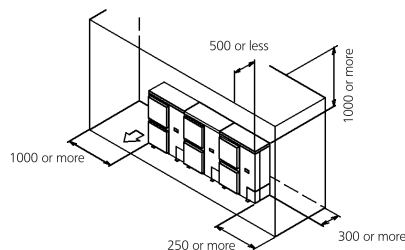
- ① Stand-alone installation
 - Obstacle on the suction side, too



- Obstacle on the suction side and both sides



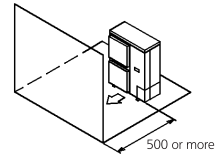
- ② Series installation (2 or more)
 - Obstacle on the suction side and both sides



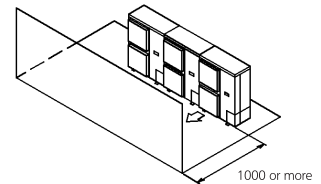
(B) When there are obstacles on discharge sides.

• No obstacle above

- ① Stand-alone installation

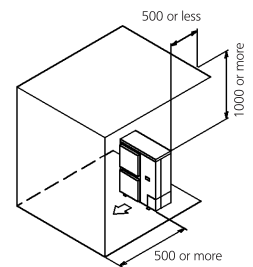


- ② Series installation (2 or more)

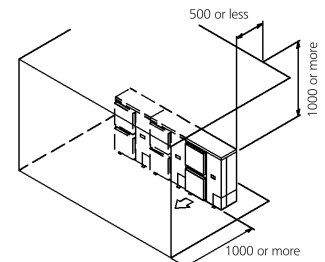


• Obstacle above, too

- ① Stand-alone installation



- ② Series installation (2 or more)



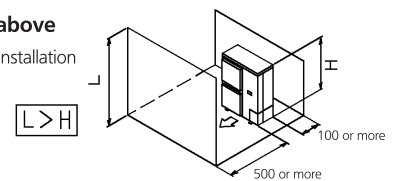
(C) When there are obstacles on both suction and discharge sides.:

Pattern 1

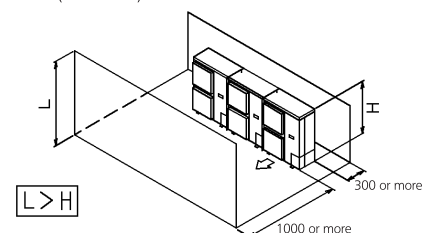
When the obstacles on the discharge side is higher than the unit.
(There is no height limit for obstructions on the intake side.)

• No obstacle above

- ① Stand-alone installation



- ② Series installation (2 or more)



3D045696D

12 Installation

12 - 1 Installation Method

RXYSQ-TY9

RXYSQ-TV9

● Obstacle above, too

① Stand-alone installation

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

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

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

② Series installation (2 or more)

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

| | L | A |
|------------|-------------------------------|------|
| $L \leq H$ | $0 < L \leq 1/2 H$ | 1000 |
| | $1/2 H < L \leq H$ | 1250 |
| $H < L$ | Set the stand as : $L \leq H$ | |

Close the bottom of the installation frame to prevent the discharged air from being bypassed.
Only two units can be installed for this series.

Pattern 2

When the obstacle on the discharge side is lower than the unit:
(There is no height limit for obstructions on the intake side.)

● No obstacle above

① Stand-alone installation

$L \leq H$

② Series installation (2 or more)

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

| | L | A |
|------------|--------------------|-----|
| $L \leq H$ | $0 < L \leq 1/2 H$ | 250 |
| | $1/2 H < L \leq H$ | 300 |

● Obstacle above, too

① Stand-alone installation

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

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

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

② Series installation

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

| | L | A |
|------------|-------------------------------|-----|
| $L \leq H$ | $0 < L \leq 1/2 H$ | 250 |
| | $1/2 H < L \leq H$ | 300 |
| $H < L$ | Set the stand as : $L \leq H$ | |

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

Only two units can be installed for this series.

(D) Double-decker installation

① Obstacle on the discharge side.

Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.

② Obstacle on the suction side.

Close the gap A (the gap between the upper and lower outdoor units) to prevent the discharged air from being bypassed.
Do not stack more than two unit.

(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 |
|------------|----------------------|-----|
| $L \leq H$ | $0 < L \leq 1/2 H$ | 250 |
| | $1/2 H < L \leq H$ | 300 |
| $H < L$ | Can not be installed | |

3D045696D

12 Installation

12 - 2 Refrigerant Pipe Selection

12

RXYSQ-TY9
RXYSQ-TV9

VRV4-S Heat pump Piping restrictions ·1/3·

For the reference drawing, see page ·2/3·.

| | | Maximum piping length | | Maximum height difference | | Total piping length |
|---|----------------------|--|---|---|--------------------------|---------------------|
| | | Longest pipe (A+[B,D+E,H]) Actual / (Equivalent) | After first branch (B,D+E,H) Actual | Indoor-to-outdoor (H1) Outdoor above indoor / (indoor above outdoor) | Indoor-to-indoor (H2) | |
| Standard ·VRV DX· indoor units only | RXYSCQ4~6TMV1B | 70/(90)m | 40m | 30/(30)m | 15m | 300m |
| | RXYSQ4~6T7(V/Y)1B | 120/(150)m | 40m | 50/(40)m | 15m | 300m |
| | RXYSQ4~6T8(V/Y)B | 100/(130)m | 40m | 50/(40)m | 15m | 300m |
| | RXYSQ8TMY1B | 120/(150)m | 40m | 50/(40)m | 15m | 300m |
| | RXYSQ10~12TMY1B | 120/(150)m | 40m | 50/(40)m | 15m | 300m |
| ·RA· connection | RXYSCQ4~6TMV1B | 35/(45)m | 40m | 30/(30)m | 15m | 140m |
| | RXYSQ4~6T7(V/Y)1B | 65/(85)m | 40m | 30/(30)m | 15m | 140m |
| | RXYSQ4~6T8(V/Y)B | 80/(100)m | 40m | 30/(30)m | 15m | 140m |
| | RXYSQ8TMY1B | 80/(100)m | 40m | 30/(30)m | 15m | 140m |
| | RXYSQ10~12TMY1B | 80/(100)m | 40m | 30/(30)m | 15m | 140m |
| Air handling unit (·AHU·) connection | Pair | 50/(55)m ⁽¹⁾ | - | 40/(40)m | - | - |
| | Multi ⁽²⁾ | 50/(55)m ⁽¹⁾ | 40m | 40/(40)m | 15m | 300m |
| | Mix ⁽³⁾ | 50/(55)m ⁽¹⁾ | 40m | 40/(40)m | 15m | 300m |

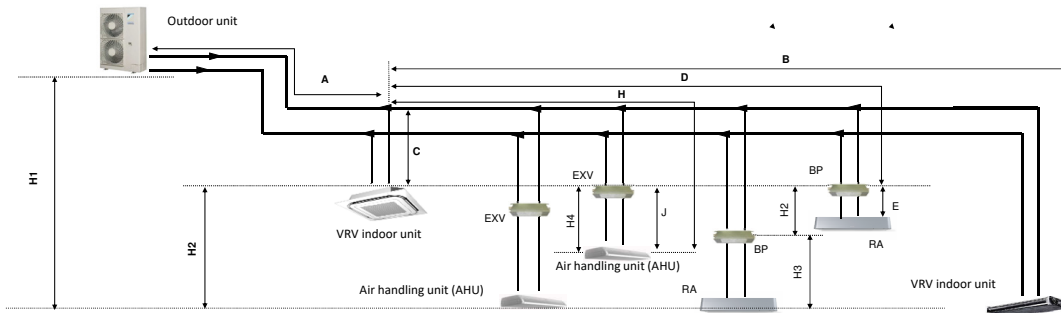
Notes

1. The allowable minimum length is ·5· m.
2. Multiple air handling units (·AHU·)(·EKEXV· + ·EKEQ· kits).
3. Mix of air handling units (·AHU·) and ·VRV DX· indoor units.

3D097984B

RXYSQ-TY9
RXYSQ-TV9

VRV4-S Heat pump Piping restrictions ·2/3·



Notes

1. Schematic indication
Illustrations may differ from the actual appearance of the unit.
2. This is only to illustrate piping length limitations.
Refer to combination table ·3D097983· for details about the allowed combinations.

| | | Allowed piping length | | Maximum height difference | |
|---------------------------------------|----------------------|-----------------------|-----------------------|---------------------------|------------------------|
| | | ·BP· to ·RA· (E) | ·EXV· to ·AHU· (J) | ·BP· to ·RA· (H3) | ·EXV· to ·AHU· (H4) |
| ·RA· connection | | 2~15m | - | 5m | - |
| Air handling unit (AHU) Connection | Pair | - | ≤5m | - | 5m |
| | Multi ⁽¹⁾ | - | ≤5m | - | 5m |
| | Mix ⁽²⁾ | - | ≤5m | - | 5m |

Notes

1. Multiple air handling units (·AHU·)(·EKEXV· + ·EKEQ· kits).
2. Mix of air handling units (·AHU·) and ·VRV DX· indoor units.

3D097984B

12 Installation

12 - 2 Refrigerant Pipe Selection

RXYSQ-TY9
RXYSQ-TV9

VRV4-S
Heat pump
Piping restrictions :3/3-

| System pattern Allowed connection ratio (CR) Other combinations are not allowed. | Total | | Allowed capacity | | |
|--|------------------------|--|--------------------|---------------------|-------------------------|
| | Capacity | Maximum allowed amount of connectable indoor units (-VRV, RA, AHU-) Excluding -BP- units and including -EXV- kits. | VRV DX indoor unit | -RA DX- indoor unit | Air handling unit (AHU) |
| -VRV DX- indoor units only | 50~130% | Maximum -64- | 50~130% | - | - |
| -RA DX- indoor units only | 80~130% | Maximum -32- ⁽¹⁾ | - | 80~130% | - |
| -VRV DX- indoor unit + -AHU- Mix | 50~110% ⁽³⁾ | Maximum -64- ⁽²⁾ | 50~110% | - | 0~110% |
| -AHU- only Pair + multi ⁽⁴⁾ | 90~110% ⁽³⁾ | Maximum -64- ⁽²⁾ | - | - | 90~110% |

Notes

- There is no restriction on the number of connectable -BP- boxes.
- EKEXV- kits are also considered indoor units.
- Restrictions regarding the air handling unit capacity
- Pair AHU = system with 1 air handling unit connected to one outdoor unit
Multi AHU = system with multiple air handling units connected to one outdoor unit

About ventilation applications

- FXMQ_MF- units are considered air handling units, following air handling unit limitations.
 - Maximum connection ratio when combined with -VRV DX- indoor units: -CR ≤ 30-%.
 - Maximum connection ratio when only air handling units are connected: -CR ≤ 100-%.
 - Minimum connection ratio when only -FXMQ_MF- units are connected: -CR ≥ 50-%
For information on the operation range, refer to the documentation of the -FXMQ_MF- unit.
- Biddle- air curtains are considered air handling units, following air handling unit limitations:
For information on the operation range, refer to the documentation of the -Biddle- unit.
- EKEXV + EKEQ- units combined with an air handling unit are considered air handling units, following air handling unit limitations.
For information on the operation range, refer to the documentation of the -EKEXV-EKEQ- unit.
- VKM- units are considered to be regular -VRV DX- indoor units.
For information on the operation range, refer to the documentation of the -VKM- unit.
- Because there is no refrigerant connection with the outdoor unit (only communication F1/F2), -VAM- units do not have connection limitations.
However, since there is communication via F1/F2, count them as regular indoor unit when calculating the maximum allowed number of connectable indoor units.

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13 Operation range

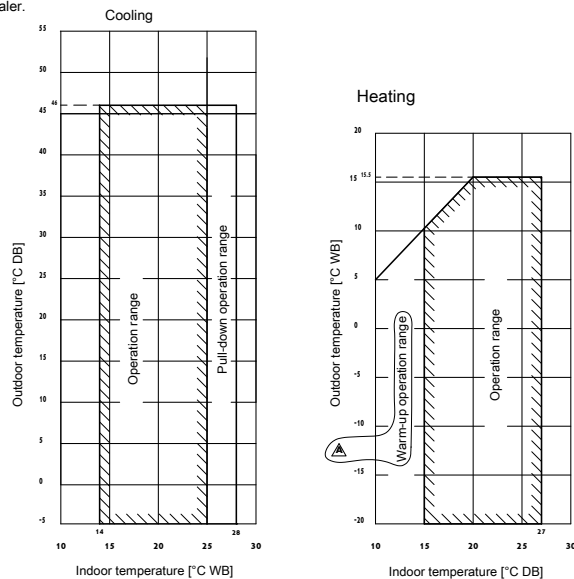
13 - 1 Operation Range

RXYSQ-TY9

RXYSQ-TV9

Notes

- These figures assume the following operation conditions
Indoor and outdoor units
Equivalent piping length: 5m
Level difference: 0m
- Depending on operation and installation conditions, the indoor unit can change over to freeze-up operation (indoor de-icing).
- 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.
- Operation range is valid in case direct expansion indoor units are used.
If other indoor units are used, refer to the documentation of the respective indoor units.
- If the unit is selected to operate at ambient temperatures $< -5^{\circ}\text{C}$ for 5 days or more, with relative humidity levels $> 95\%$, it is recommended to apply a Daikin range specifically designed for such application.
For more information, contact your dealer.



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14 Appropriate Indoors

14 - 1 Appropriate Indoors

RXYSQ-TY1

RXYSQ-TY9

RXYSQ-TV9

RXYSCQ-TV1

Recommended indoor units for ·RXYSQ*T* AND RXYSCQ*T*· outdoor units

| ·· HP | 4 | 5 | 6 | 8 | 10 | 12 |
|-------|----------------------|----------|----------------------|----------|----------|----------|
| | 3xFXSQ25 1xFXSQ32 | 4xFXSQ32 | 2xFXSQ32 2xFXSQ40 | 4xFXMQ50 | 4xFXMQ63 | 6xFXMQ50 |

For details about the allowed combinations, see the engineering databook.

Appropriate indoor units for ·RXYSQ*T* AND RXYSCQ*T*· outdoor units

Covered by ·ENER LOT21·

FXFQ20-25-32-40-50-63-80-100-125
 FXZQ15-20-25-32-40-50
 FXCQ20-25-32-40-50-63-80-125
 FXKQ25-32-40-63
 FXDQ15-20-25-32-40-50-63
 FXSQ15-20-25-32-40-50-63-80-100-125-140
 FXMQ50-63-80-100-125-200-250
 FXAQ15-20-25-32-40-50-63
 FXHQ32-63-100
 FXUQ71-100
 FXNQ20-25-32-40-50-63
 FXLQ20-25-32-40-50-63

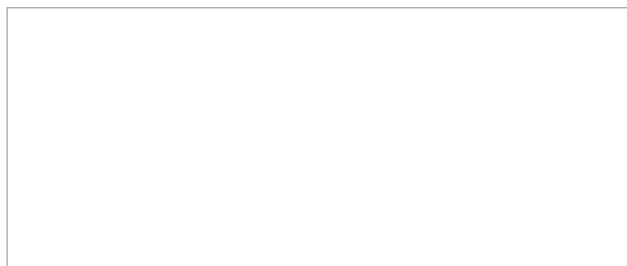
Outside the scope of ·ENER LOT21·

EKEXV50-63-80-100-125-140-200-250 + EKEQM / EKEQF
 VKM50-80-100
 CYV5100-150-200-250
 CYVM100-150-200-250
 CYVL100-150-200-250

Covered by ·ENER LOT10·

FTXJ25-35-50
 FTXA20-25-35-42-50
 FTXM20-25-35-42-50-60-71
 CTXIM15
 FLXS25-35-50-60
 FVXM25-35-50
 FVXG25-35-50
 FNA25-35-50-60
 FDXM25-30-50-60
 FFA25-35-50-60
 FCAG35-50-60-71
 FHA35-50-60-71
 FBA35-50-60-71
 CVXM20A
 FVXM-25A-35A-50A-60A

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