# 1 Features



- Optimised heating solution for your home
- Energy saving during standby mode: reduces current consumption by about 80% when operating In standby. If no people are detected for more than 20 minutes, the system will automatically switch to the current-saving mode.
- Outdoor unit silent operation: "silent" button on the remote control lowers the operation sound of the outdoor unit by 3dBA to ensure a quiet environment for the neighbourhood.
- Weekly timer can be set to start heating or cooling anytime on a daily or weekly basis
- Ideal for installation beneath a window
- ECONO mode decreases power consumption so that other appliances that need large power consumption can be used
- Night set mode saves energy by preventing overcooling or overheating during night time
- Powerful mode can be selected for rapid heating or cooling; after the powerful mode is turned off, the unit returns to the preset mode.
- Whisper quiet operation: down to 23dBA sound pressure level
- Indoor unit silent operation: "silent" button on the remote control lowers the operation sound of the indoor unit by 3dBA
- Titanium apatite photocatalytic air purification filter removes airborne microscopic particles, powerfully decomposes odours and helps to prevent the propagation of bacteria, viruses, microbes to ensure a steady supply of clean air
- Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- Can be installed against a wall or recessed
- Extended operation range down to -20ºC in heating
- Energy efficient units: full range A class energy labels
- Optimised heating solution for your home
- Outdoor units for pair application
- Energy saving during standby mode: reduces current consumption by about 80% when operating In standby. If no people are detected for more than 20 minutes, the system will automatically switch to the current-saving mode.
- Daikin outdoor units are neat, sturdy and can easily be mounted on a roof or terrace or simply placed against an outside wall
- Outdoor units are fitted with a swing compressor, renowned for its low noise and high energy efficiency
- Outdoor unit silent operation: "silent" button on the remote control lowers the operation sound of the outdoor unit by 3dBA to ensure a quiet environment for the neighbourhood.


# 2 Specifications



| 2-1 Nominal Capacity And Nominal Input | | | | RXL20J | RXL25J | RXL35J |
|---|---|---|---|---|---|---|
| Cooling capacity | Min. | | kW | 1.3 | | 1.4 |
| | Nom. | | kW | 2.0 (3) | 2.5 (3) | 3.5 (3) |
| | Max. | | kW | 2.8 | 3.2 | 4.0 |
| Heating capacity | Min. | | kW | 1.3 | | 1.4 |
| | Nom. | | kW | 2.7 (4) | 3.3 (4) | 4.0 (4) |
| | Max. | | kW | 4.3 | 4.7 | 5.2 |
| Power input | Cooling | Nom. | kW | 0.45 | 0.54 | 0.86 |
| | Heating | Nom. | kW | 0.61 | 0.71 | 0.95 |
| EER | | | | 4.44 | 4.67 | 4.07 |
| COP | | | | 4.43 | 4.65 | 4.21 |
| Annual energy consumption | | | kWh | 225 | 268 | 430 |
| Energy label | Cooling | | | A | | |
| | Heating | | | A | | |
| Piping connections | Liquid | OD | mm | 6.35 | | |
| | Gas | OD | mm | 9.5 | | |

**Notes**

| 2-2 Nominal Capacity And Nominal Input | | | | RXL25J | RXL35J |
|---|---|---|---|---|---|
| Cooling capacity | Min. | | kW | 1.3 | 1.4 |
| | Nom. | | kW | 2.5 (3) | 3.5 (3) |
| | Max. | | kW | 3.0 | 3.8 |
| Heating capacity | Min. | | kW | 1.3 | 1.4 |
| | Nom. | | kW | 3.4 (4) | 4.5 (4) |
| | Max. | | kW | 4.5 | 5.0 |
| Power input | Cooling | Nom. | kW | 0.57 | 0.81 |
| | Heating | Nom. | kW | 0.99 | 1.22 |
| EER | | | | 4.39 | 4.30 |
| COP | | | | 3.43 | 3.69 |
| Annual energy consumption | | | kWh | 285 | 407 |
| Energy label | Cooling | | | A | |
| | Heating | | | B | A |
| Piping connections | Liquid | OD | mm | 6.35 | |
| | Gas | OD | mm | 9.5 | |

**Notes**

| 2-3 Technical Specifications | | | | RXL20J | RXL25J | RXL35J |
|---|---|---|---|---|---|---|
| Casing | Colour | | | Ivory white | | |
| Dimensions | Unit | Height | mm | 550 | | |
| | | Width | mm | 765 | | |
| | | Depth | mm | 285 | | |
| | Packed unit | Height | mm | 612 | | |
| | | Width | mm | 906 | | |
| | | Depth | mm | 364 | | |
| Weight | Unit | | kg | 32 | 34 | |
| | Packed unit | | kg | 35 | 38 | |
| Heat exchanger | Length | | mm | 828 | 805 | |
| | Rows | Quantity | | 1 | 2 | |
| | Fin pitch | | mm | 1.4 | | |
| | Stages | Quantity | | 24 | | |
| | Tube type | | | ø7 Hi-XA | | |
| | Fin | Type | | Waffle louvered fin | | |
| | | Treatment | | Anti-corrosion treatment (PE) | | |

# 2 Specifications



| 2-3 Technical Specifications | | | | | RXL20J | RXL25J | RXL35J |
|---|---|---|---|---|---|---|---|
| Fan | Type | | | | Propeller fan | | |
| | Air flow rate | Cooling | High | m³/min | 36.2 | 33.5 | 36.0 |
| | | | | cfm | 1,278 | 1,183 | 1,271 |
| | | | Super low | m³/min | 32.7 | 30.1 | |
| | | | | cfm | 1,155 | 1,063 | |
| | | Heating | High | m³/min | 30.6 | 28.3 | |
| | | | | cfm | 1,080 | 999 | |
| | | | Super low | m³/min | 28.5 | 25.6 | |
| | | | | cfm | 1,006 | 904 | |
| Fan motor | Model | | | | D23H-28 | | |
| | Output | | | W | 23 | | |
| | Speed | Cooling | High | rpm | 860 | | 920 |
| | | | Super low | rpm | 780 | | |
| | | Heating | High | rpm | 860 | | |
| | | | Super low | rpm | 740 | | |
| Sound power level | Cooling | High | | dBA | 61 | | 63 |
| Sound pressure level | Cooling | High | | dBA | 46 | | 48 |
| | | Silent operation | | dBA | 43 | | 44 |
| | Heating | High | | dBA | 47 | | 48 |
| | | Silent operation | | dBA | 44 | | 45 |
| Compressor | Model | | | | 1YC23AEXDC | | |
| | Type | | | | Hermetically sealed swing compressor | | |
| | Output | | | W | 600 | | |
| Operation range | Cooling | Ambient | Min. | °CDB | -10 | | |
| | | | Max. | °CDB | 46 | | |
| | Heating | Ambient | Min. | °CWB | -20 | | |
| | | | Max. | °CWB | 20 | | |
| Refrigerant | Type | | | | R-410A | | |
| | Charge | | | kg | 0.8 | 1.0 | 1.2 |
| Refrigerant oil | Type | | | | FVC50K | | |
| | Charged volume | | | l | 0.375 | | |
| Piping connections | Liquid | OD | | mm | 6.35 | | |
| | Gas | OD | | mm | 9.5 | | |
| | Drain | ID | | mm | - | | |
| | Piping length | OU - IU | Max. | m | 20 | | |
| | | System | Chargeless | m | 10 | | |
| | Level difference | IU - OU | Max. | m | 15 | | |

| 2-4 Electrical Specifications | | | Type | RXL20J | RXL25J | RXL35J |
|---|---|---|---|---|---|---|
| Power supply | Phase | | 1~ | | | |
| | Frequency | Hz | 50 | | | |
| | Voltage | V | 220-230-240 | | | |
| For connection with indoor | Quantity | | - | | | |
| | Remark | | - | | | |

**Notes**

# 3 Electrical data

## 3 - 1 Electrical Data

**RXL20J**

| Representative unit combination | | Power supply | | | | Comp. | | OFM | | IFM | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Indoor unit | Outdoor unit | Hz-volts | Voltage range | MCA | MFA | RHz | RLA | W | FLA | W | FLA |
| FTXS20J2V1B | RXL20J2V1B | 50 - 220<br>50 - 230<br>50 - 240 | Max. 50Hz 264V<br>Min. 50Hz 198V | 9.75 | 10 | 34 | 2.1<br>2.0<br>1.9 | 23 | 0.23 | 23 | 0.15 |

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**SYMBOLS**

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (A)
RHz : Rated operating frequency (Hz)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps (A)
W : Fan Motor Rated Output (W)

**NOTES**

1. RLA is based on the following conditions:
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Maximum allowable voltage variation between phases is 2%.
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use Circuit Breaker.

**RXL25J**

| Representative unit combination | | Power supply | | | | Comp. | | OFM | | IFM | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Indoor unit | Outdoor unit | Hz-volts | Voltage range | MCA | MFA | RHz | RLA | W | FLA | W | FLA |
| FTXS25J2V1B | RXL25J2V1B | 50 - 220<br>50 - 230<br>50 - 240 | Max. 50Hz 264V<br>Min. 50Hz 198V | 9.75 | 10 | 45 | 2.6<br>2.4<br>2.3 | 23 | 0.23 | 23 | 0.15 |
| FVXS25FV1B | RXL25J2V1B | 50 - 220<br>50 - 230<br>50 - 240 | Max. 50Hz 264V<br>Min. 50Hz 198V | 9.75 | 10 | 46 | 3.0<br>2.8<br>2.7 | 23 | 0.23 | 48 | 0.05 |

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**SYMBOLS**

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (A)
RHz : Rated operating frequency (Hz)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps (A)
W : Rated motor output (W) (W)

**NOTES**

1. RLA is based on the following conditions:
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Maximum allowable voltage variation between phases is 2%.
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use Circuit Breaker.

# 3 Electrical data

## 3 - 1 Electrical Data



**RXL35J**

| Representative unit combination | | Power supply | | | | Comp. | | OFM | | IFM | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Indoor unit | Outdoor unit | Hz-volts | Voltage range | MCA | MFA | RHz | RLA | W | FLA | W | FLA |
| FTXS35J2V1B | RXL35J2V1B | 50 - 220<br>50 - 230<br>50 - 240 | Max. 50Hz 264V<br>Min. 50Hz 198V | 9.75 | 10 | 65 | 3.9<br>3.7<br>3.5 | 23 | 0.23 | 23 | 0.15 |
| FVXS35FV1B | RXL35J2V1B | 50 - 220<br>50 - 230<br>50 - 240 | Max. 50Hz 264V<br>Min. 50Hz 198V | 9.75 | 10 | 66 | 4.8<br>4.6<br>4.4 | 23 | 0.23 | 48 | 0.05 |

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**SYMBOLS**

MCA : Min. Circuit Amps (A)
MFA : Max. Fuse Amps (A)
RHz : Rated operating frequency (Hz)
RLA : Rated Load Amps (A)
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps (A)
W : Fan Motor Rated Output (W)

**NOTES**

1. RLA is based on the following conditions:
   Indoor temp.: 27°CDB/19.0°CWB
   Outdoor temp. : 35°CDB
2. Maximum allowable voltage variation between phases is 2%.
3. Select wire size based on the larger value of MCA.
4. Instead of fuse, use Circuit Breaker.

# 4 Capacity tables

## 4 - 1 Cooling/Heating Capacity Tables

**FTXS20J2V1B+RXL20J2V1B**

**Cooling** **50Hz 220-240V**

| AFR | 9.4 |
|---|---|
| BF | 0.14 |

| Indoor | | Outdoor temperature (°CDB) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EWB | EDB | 20 | | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | | |
| (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 14.0 | 20 | 2.05 | 1.84 | 0.35 | 1.96 | 1.80 | 0.38 | 1.86 | 1.76 | 0.41 | 1.83 | 1.74 | 0.43 | 1.77 | 1.71 | 0.45 | 1.68 | 1.67 | 0.48 |
| 16.0 | 22 | 2.14 | 1.81 | 0.35 | 2.05 | 1.77 | 0.38 | 1.95 | 1.73 | 0.41 | 1.92 | 1.72 | 0.43 | 1.86 | 1.69 | 0.45 | 1.77 | 1.66 | 0.48 |
| 18.0 | 25 | 2.23 | 1.94 | 0.35 | 2.14 | 1.90 | 0.38 | 2.05 | 1.87 | 0.42 | 2.01 | 1.85 | 0.43 | 1.95 | 1.83 | 0.45 | 1.86 | 1.80 | 0.48 |
| 19.0 | 27 | 2.28 | 2.09 | 0.35 | 2.19 | 2.05 | 0.38 | 2.09 | 2.02 | 0.42 | 2.06 | 2.00 | 0.43 | 2.00 | 1.98 | 0.45 | 1.91 | 1.95 | 0.48 |
| 22.0 | 30 | 2.42 | 2.03 | 0.35 | 2.32 | 2.00 | 0.39 | 2.23 | 1.97 | 0.42 | 2.19 | 1.96 | 0.43 | 2.14 | 1.94 | 0.45 | 2.05 | 1.91 | 0.49 |
| 24.0 | 32 | 2.51 | 1.99 | 0.36 | 2.42 | 1.96 | 0.39 | 2.32 | 1.93 | 0.42 | 2.29 | 1.92 | 0.44 | 2.23 | 1.91 | 0.45 | 2.14 | 1.88 | 0.49 |

**Heating** **50Hz 220-240V**

| AFR | 9.9 |
|---|---|

| Indoor | Outdoor temperature (°CWB) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| EDB | -10 | | -5 | | 0 | | 6 | | 10 | |
| (°C) | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 15.0 | 1.82 | 0.52 | 2.12 | 0.54 | 2.43 | 0.57 | 2.79 | 0.60 | 3.04 | 0.62 |
| 20.0 | 1.72 | 0.53 | 2.03 | 0.55 | 2.33 | 0.58 | 2.70 | 0.61 | 2.94 | 0.63 |
| 22.0 | 1.69 | 0.54 | 1.99 | 0.56 | 2.30 | 0.59 | 2.66 | 0.62 | 2.91 | 0.64 |
| 24.0 | 1.65 | 0.54 | 1.95 | 0.57 | 2.26 | 0.59 | 2.63 | 0.62 | 2.87 | 0.64 |
| 25.0 | 1.63 | 0.54 | 1.94 | 0.57 | 2.24 | 0.59 | 2.61 | 0.62 | 2.85 | 0.64 |
| 27.0 | 1.59 | 0.55 | 1.90 | 0.57 | 2.20 | 0.60 | 2.57 | 0.63 | 2.81 | 0.65 |

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### SYMBOLS

| | | |
|---|---|---|
| AFR: | Air flow rate | ($m^3$/min) |
| BF: | Bypass factor | |
| EWB: | Entering wet bulb temp. | (°C) |
| EDB: | Entering dry bulb temp. | (°C) |
| TC: | Total capacity | (kW) |
| SHC: | Sensible heating capacity | (kW) |
| PI: | Power input | (kW) |

### NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ☐ shows nominal (rated) capacities and power input.
3. TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
4. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 5 m
   Level difference: 0 m
6. Air flow rate (AFR) and Bypass factor (BF) are tabulated above table.

# 4 Capacity tables

## 4 - 1 Cooling/Heating Capacity Tables



**FTXS25J2V1B+RXL25J2V1B**

**Cooling** **50Hz 220-240V**

| AFR | 10.8 |
|---|---|
| BF | 0.16 |

| Indoor | | Outdoor temperature (°CDB) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EWB | EDB | 20 | | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | | |
| (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 14.0 | 20 | 2.56 | 2.18 | 0.41 | 2.44 | 2.13 | 0.45 | 2.33 | 2.08 | 0.49 | 2.28 | 2.05 | 0.51 | 2.21 | 2.02 | 0.53 | 2.10 | 1.97 | 0.57 |
| 16.0 | 22 | 2.68 | 2.15 | 0.41 | 2.56 | 2.10 | 0.45 | 2.44 | 2.05 | 0.49 | 2.40 | 2.03 | 0.51 | 2.33 | 2.00 | 0.53 | 2.21 | 1.95 | 0.57 |
| 18.0 | 25 | 2.79 | 2.29 | 0.42 | 2.68 | 2.24 | 0.45 | 2.56 | 2.20 | 0.49 | 2.51 | 2.18 | 0.51 | 2.44 | 2.15 | 0.53 | 2.33 | 2.10 | 0.57 |
| 19.0 | 27 | 2.85 | 2.45 | 0.42 | 2.73 | 2.41 | 0.46 | 2.62 | 2.36 | 0.50 | 2.57 | 2.34 | 0.51 | 2.50 | 2.32 | 0.54 | 2.38 | 2.27 | 0.57 |
| 22.0 | 30 | 3.02 | 2.38 | 0.42 | 2.91 | 2.34 | 0.46 | 2.79 | 2.30 | 0.50 | 2.74 | 2.28 | 0.51 | 2.67 | 2.26 | 0.54 | 2.56 | 2.22 | 0.58 |
| 24.0 | 32 | 3.14 | 2.33 | 0.42 | 3.02 | 2.29 | 0.46 | 2.90 | 2.26 | 0.50 | 2.86 | 2.24 | 0.52 | 2.79 | 2.22 | 0.54 | 2.67 | 2.19 | 0.58 |

**Heating** **50Hz 220-240V**

| AFR | 11.9 |
|---|---|

| Indoor | Outdoor temperature (°CWB) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| EDB | -10 | | -5 | | 0 | | 6 | | 10 | |
| (°C) | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 15.0 | 2.22 | 0.60 | 2.59 | 0.63 | 2.97 | 0.66 | 3.41 | 0.69 | 3.71 | 0.72 |
| 20.0 | 2.11 | 0.62 | 2.48 | 0.65 | 2.85 | 0.67 | 3.30 | 0.71 | 3.60 | 0.73 |
| 22.0 | 2.06 | 0.62 | 2.43 | 0.65 | 2.81 | 0.68 | 3.25 | 0.72 | 3.55 | 0.74 |
| 24.0 | 2.02 | 0.63 | 2.39 | 0.66 | 2.76 | 0.69 | 3.21 | 0.72 | 3.51 | 0.75 |
| 25.0 | 1.99 | 0.63 | 2.37 | 0.66 | 2.74 | 0.69 | 3.19 | 0.73 | 3.48 | 0.75 |
| 27.0 | 1.95 | 0.64 | 2.32 | 0.67 | 2.69 | 0.70 | 3.14 | 0.73 | 3.44 | 0.76 |

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**SYMBOLS**

| | | |
|---|---|---|
| AFR: | Air flow rate | ($m^3$/min) |
| BF: | Bypass factor | |
| EWB: | Entering wet bulb temp. | (°C) |
| EDB: | Entering dry bulb temp. | (°C) |
| TC: | Total capacity | (kW) |
| SHC: | Sensible heating capacity | (kW) |
| PI: | Power input | (kW) |

**NOTES**

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ☐ shows nominal (rated) capacities and power input.
3. TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
4. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 5 m
   Level difference: 0 m
6. Air flow rate (AFR) and Bypass factor (BF) are tabulated above table.

# 4 Capacity tables

## 4 - 1 Cooling/Heating Capacity Tables

**FVXS25FV1B+RXL25J2V1B**

**Cooling** **50Hz 220-240V**

| AFR | 8.2 |
|---|---|
| BF | 0.10 |

| Indoor | | Outdoor temperature (°CDB) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EWB | EDB | 20 | | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | | |
| (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 14.0 | 20 | 2.56 | 2.00 | 0.44 | 2.44 | 1.95 | 0.48 | 2.33 | 1.89 | 0.52 | 2.28 | 1.87 | 0.54 | 2.21 | 1.84 | 0.56 | 2.10 | 1.78 | 0.61 |
| 16.0 | 22 | 2.68 | 1.97 | 0.44 | 2.56 | 1.92 | 0.48 | 2.44 | 1.87 | 0.52 | 2.40 | 1.84 | 0.54 | 2.33 | 1.81 | 0.57 | 2.21 | 1.76 | 0.61 |
| 18.0 | 25 | 2.79 | 2.08 | 0.44 | 2.68 | 2.03 | 0.48 | 2.56 | 1.98 | 0.53 | 2.51 | 1.96 | 0.54 | 2.44 | 1.93 | 0.57 | 2.33 | 1.89 | 0.61 |
| 19.0 | 27 | 2.85 | 2.21 | 0.44 | 2.73 | 2.16 | 0.49 | 2.62 | 2.11 | 0.53 | 2.57 | 2.09 | 0.54 | 2.50 | 2.07 | 0.57 | 2.38 | 2.02 | 0.61 |
| 22.0 | 30 | 3.02 | 2.13 | 0.45 | 2.91 | 2.09 | 0.49 | 2.79 | 2.05 | 0.53 | 2.74 | 2.03 | 0.55 | 2.67 | 2.01 | 0.57 | 2.56 | 1.97 | 0.62 |
| 24.0 | 32 | 3.14 | 2.08 | 0.45 | 3.02 | 2.04 | 0.49 | 2.90 | 2.01 | 0.53 | 2.86 | 1.99 | 0.55 | 2.79 | 1.97 | 0.58 | 2.67 | 1.93 | 0.62 |

**Heating** **50Hz 220-240V**

| AFR | 8.8 |
|---|---|

| Indoor | Outdoor temperature (°CWB) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| EDB | -10 | | -5 | | 0 | | 6 | | 10 | |
| (°C) | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 15.0 | 2.29 | 0.67 | 2.67 | 0.70 | 3.06 | 0.73 | 3.52 | 0.77 | 3.82 | 0.80 |
| 20.0 | 2.17 | 0.69 | 2.56 | 0.72 | 2.94 | 0.75 | 3.40 | 0.79 | 3.71 | 0.82 |
| 22.0 | 2.12 | 0.69 | 2.51 | 0.73 | 2.89 | 0.76 | 3.35 | 0.80 | 3.66 | 0.82 |
| 24.0 | 2.08 | 0.70 | 2.46 | 0.73 | 2.85 | 0.77 | 3.31 | 0.80 | 3.61 | 0.83 |
| 25.0 | 2.05 | 0.70 | 2.44 | 0.74 | 2.82 | 0.77 | 3.28 | 0.81 | 3.59 | 0.83 |
| 27.0 | 2.01 | 0.71 | 2.39 | 0.74 | 2.77 | 0.78 | 3.24 | 0.81 | 3.54 | 0.84 |

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**SYMBOLS**

| | | |
|---|---|---|
| AFR: | Air flow rate | ($m^3$/min) |
| BF: | Bypass factor | |
| EWB: | Entering wet bulb temp. | (°C) |
| EDB: | Entering dry bulb temp. | (°C) |
| TC: | Total capacity | (kW) |
| SHC: | Sensible heating capacity | (kW) |
| PI: | Power input | (kW) |

**NOTES**

1. Capacities are based on the following conditions:
   (1) Corresponding refrigerant piping length: 5 m
   (2) Level difference: 0 m
2. ☐ shows nominal (rated) capacities and power input.

# 4 Capacity tables

## 4 - 1 Cooling/Heating Capacity Tables



**FTXS35J2V1B+RXL35J2V1B**

**Cooling** **50Hz 220-240V**

| AFR | 11.4 |
|---|---|
| BF | 0.21 |

| Indoor | | Outdoor temperature (°CDB) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EWB | EDB | 20 | | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | | |
| (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 14.0 | 20 | 3.59 | 2.67 | 0.66 | 3.42 | 2.59 | 0.72 | 3.26 | 2.51 | 0.79 | 3.19 | 2.48 | 0.81 | 3.10 | 2.43 | 0.85 | 2.93 | 2.35 | 0.91 |
| 16.0 | 22 | 3.75 | 2.63 | 0.66 | 3.58 | 2.55 | 0.73 | 3.42 | 2.48 | 0.79 | 3.36 | 2.45 | 0.82 | 3.26 | 2.40 | 0.85 | 3.10 | 2.33 | 0.92 |
| 18.0 | 25 | 3.91 | 2.75 | 0.67 | 3.75 | 2.68 | 0.73 | 3.58 | 2.61 | 0.79 | 3.52 | 2.58 | 0.82 | 3.42 | 2.54 | 0.86 | 3.26 | 2.47 | 0.92 |
| 19.0 | 27 | 3.99 | 2.91 | 0.67 | 3.83 | 2.84 | 0.73 | 3.66 | 2.77 | 0.80 | 3.60 | 2.74 | 0.82 | 3.50 | 2.70 | 0.86 | 3.34 | 2.64 | 0.92 |
| 22.0 | 30 | 4.23 | 2.80 | 0.67 | 4.07 | 2.74 | 0.74 | 3.90 | 2.68 | 0.80 | 3.84 | 2.66 | 0.83 | 3.74 | 2.62 | 0.87 | 3.58 | 2.57 | 0.93 |
| 24.0 | 32 | 4.39 | 2.73 | 0.68 | 4.23 | 2.67 | 0.74 | 4.07 | 2.62 | 0.81 | 4.00 | 2.60 | 0.83 | 3.90 | 2.57 | 0.87 | 3.74 | 2.51 | 0.93 |

**Heating** **50Hz 230V**

| AFR | 12.4 |
|---|---|

| Indoor | Outdoor temperature (°CWB) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| EDB | -10 | | -5 | | 0 | | 6 | | 10 | |
| (°C) | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 15.0 | 2.69 | 0.80 | 3.14 | 0.84 | 3.60 | 0.88 | 4.14 | 0.93 | 4.50 | 0.96 |
| 20.0 | 2.55 | 0.82 | 3.01 | 0.86 | 3.46 | 0.90 | 4.00 | 0.95 | 4.36 | 0.98 |
| 22.0 | 2.50 | 0.83 | 2.95 | 0.87 | 3.40 | 0.91 | 3.94 | 0.96 | 4.31 | 0.99 |
| 24.0 | 2.44 | 0.84 | 2.90 | 0.88 | 3.35 | 0.92 | 3.89 | 0.97 | 4.25 | 1.00 |
| 25.0 | 2.42 | 0.85 | 2.87 | 0.89 | 3.32 | 0.92 | 3.86 | 0.97 | 4.22 | 1.00 |
| 27.0 | 2.36 | 0.85 | 2.81 | 0.89 | 3.26 | 0.93 | 3.81 | 0.98 | 4.17 | 1.01 |

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### SYMBOLS

| | | |
|---|---|---|
| AFR: | Air flow rate | ($m^3$/min) |
| BF: | Bypass factor | |
| EWB: | Entering wet bulb temp. | (°C) |
| EDB: | Entering dry bulb temp. | (°C) |
| TC: | Total capacity | (kW) |
| SHC: | Sensible heating capacity | (kW) |
| PI: | Power input | (kW) |

### NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat.
2. ☐ shows nominal (rated) capacities and power input.
3. TC, PI and SHC must be calculated by interpolation using the figures in the above tables. (Figures out of the tables should not be used for calculation.)
4. About SHC which are not mentioned on the table, please calculate them with around values in direct proportion.
5. Capacities are based on the following conditions:
   Corresponding refrigerant piping length: 5 m
   Level difference: 0 m
6. Air flow rate (AFR) and Bypass factor (BF) are tabulated above table.

# 4 Capacity tables

## 4 - 1 Cooling/Heating Capacity Tables

**FVXS35FV1B+RXL35J2V1B**

**Cooling** **50Hz 220-240V**

| AFR | 8.5 |
|---|---|
| BF | 0.11 |

| Indoor | | Outdoor temperature (°CDB) | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EWB | EDB | 20 | | | 25 | | | 30 | | | 32 | | | 35 | | | 40 | | |
| (°C) | (°C) | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI | TC | SHC | PI |
| 14.0 | 20 | 3.59 | 2.54 | 0.78 | 3.42 | 2.46 | 0.86 | 3.26 | 2.37 | 0.93 | 3.19 | 2.34 | 0.96 | 3.10 | 2.29 | 1.01 | 2.93 | 2.21 | 1.08 |
| 16.0 | 22 | 3.75 | 2.50 | 0.79 | 3.58 | 2.42 | 0.86 | 3.42 | 2.34 | 0.94 | 3.36 | 2.31 | 0.97 | 3.26 | 2.26 | 1.01 | 3.10 | 2.18 | 1.09 |
| 18.0 | 25 | 3.91 | 2.60 | 0.79 | 3.75 | 2.52 | 0.87 | 3.58 | 2.45 | 0.94 | 3.52 | 2.42 | 0.97 | 3.42 | 2.37 | 1.02 | 3.26 | 2.30 | 1.09 |
| 19.0 | 27 | 3.99 | 2.72 | 0.79 | 3.83 | 2.65 | 0.87 | 3.66 | 2.57 | 0.94 | 3.60 | 2.55 | 0.97 | 3.50 | 2.50 | 1.02 | 3.34 | 2.43 | 1.10 |
| 22.0 | 30 | 4.23 | 2.61 | 0.80 | 4.07 | 2.55 | 0.88 | 3.90 | 2.49 | 0.95 | 3.84 | 2.46 | 0.98 | 3.74 | 2.43 | 1.03 | 3.58 | 2.36 | 1.10 |
| 24.0 | 32 | 4.39 | 2.54 | 0.81 | 4.23 | 2.48 | 0.88 | 4.07 | 2.42 | 0.96 | 4.00 | 2.40 | 0.99 | 3.90 | 2.37 | 1.03 | 3.74 | 2.31 | 1.11 |

**Heating** **50Hz 220-240V**

| AFR | 9.4 |
|---|---|

| Indoor | Outdoor temperature (°CWB) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| EDB | -10 | | -5 | | 0 | | 6 | | 10 | |
| (°C) | TC | PI | TC | PI | TC | PI | TC | PI | TC | PI |
| 15.0 | 3.03 | 1.03 | 3.54 | 1.08 | 4.05 | 1.13 | 4.66 | 1.19 | 5.06 | 1.23 |
| 20.0 | 2.87 | 1.06 | 3.38 | 1.11 | 3.89 | 1.16 | 4.50 | 1.22 | 4.91 | 1.26 |
| 22.0 | 2.81 | 1.07 | 3.32 | 1.12 | 3.83 | 1.17 | 4.44 | 1.23 | 4.84 | 1.27 |
| 24.0 | 2.75 | 1.08 | 3.26 | 1.13 | 3.77 | 1.18 | 4.38 | 1.24 | 4.78 | 1.28 |
| 25.0 | 2.72 | 1.09 | 3.23 | 1.14 | 3.73 | 1.19 | 4.34 | 1.25 | 4.75 | 1.29 |
| 27.0 | 2.66 | 1.10 | 3.16 | 1.15 | 3.67 | 1.20 | 4.28 | 1.26 | 4.69 | 1.30 |

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**SYMBOLS**

| | | |
|---|---|---|
| AFR: | Air flow rate | ($m^3$/min) |
| BF: | Bypass factor | |
| EWB: | Entering wet bulb temp. | (°C) |
| EDB: | Entering dry bulb temp. | (°C) |
| TC: | Total capacity | (kW) |
| SHC: | Sensible heating capacity | (kW) |
| PI: | Power input | (kW) |

**NOTES**

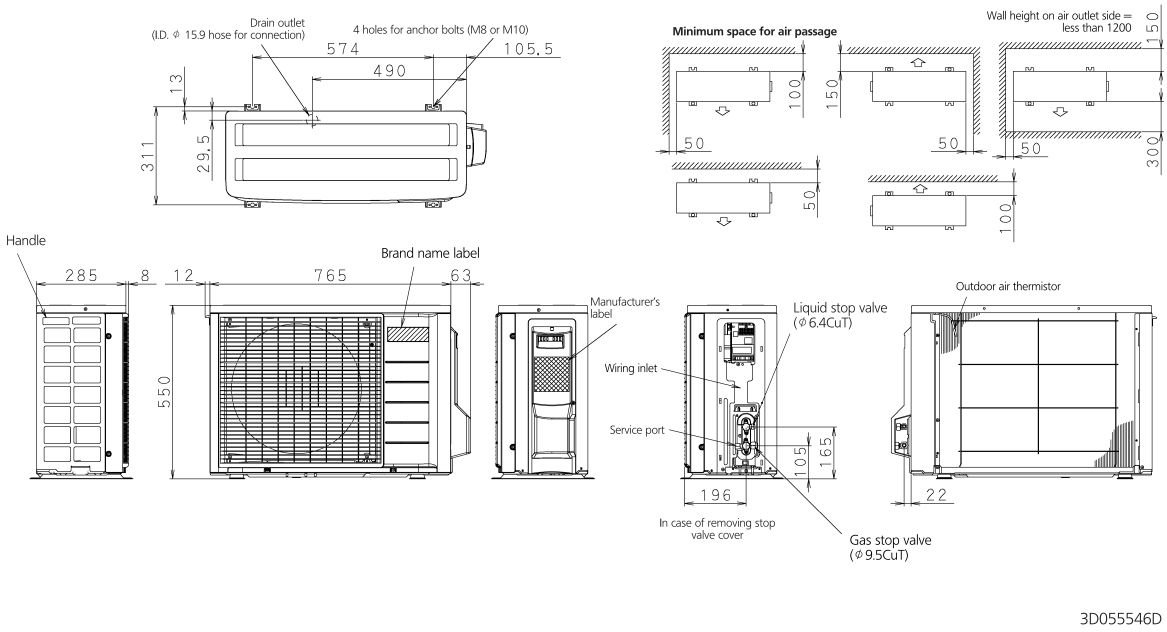
1. Capacities are based on the following conditions:
   (1) Corresponding refrigerant piping length: 5 m
   (2) Level difference: 0 m
2. ☐ shows nominal (rated) capacities and power input.

# 5 Dimensional drawings

## 5 - 1 Dimensional Drawings



**RXL20-35J**

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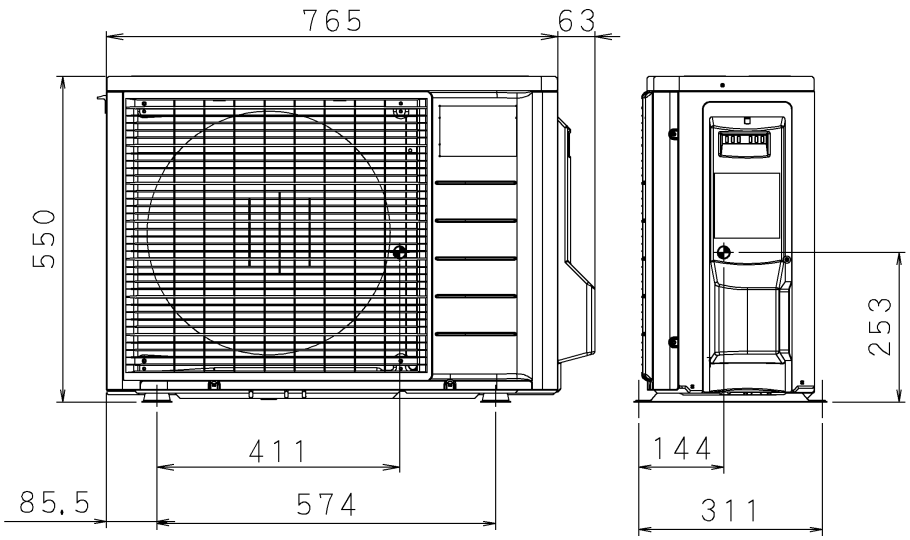
# 6 Centre of gravity

## 6 - 1 Centre of Gravity

**RXL20-35J**

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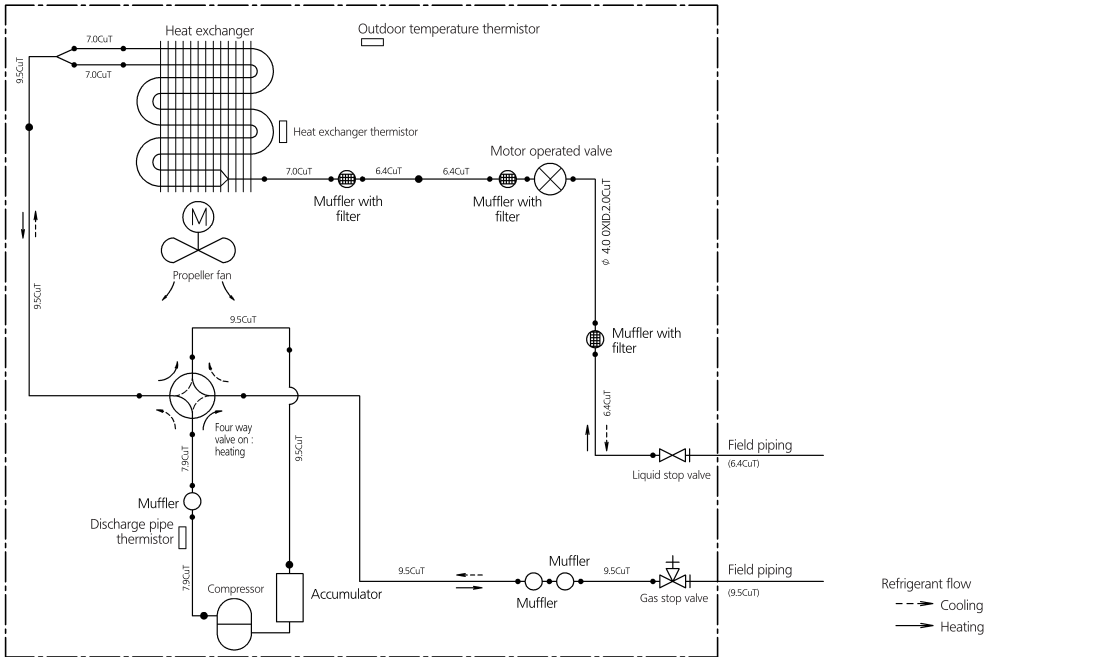
# 7 Piping diagrams

## 7 - 1 Piping Diagrams

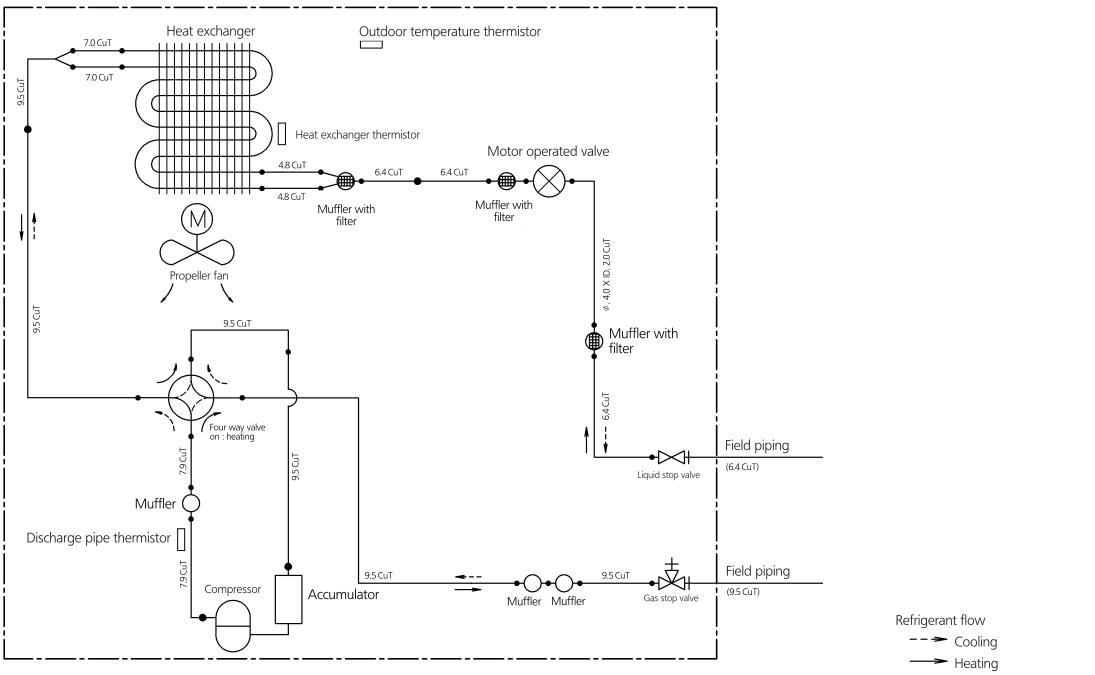


**RXL20J**




3D059587B

**RXL25-35J**

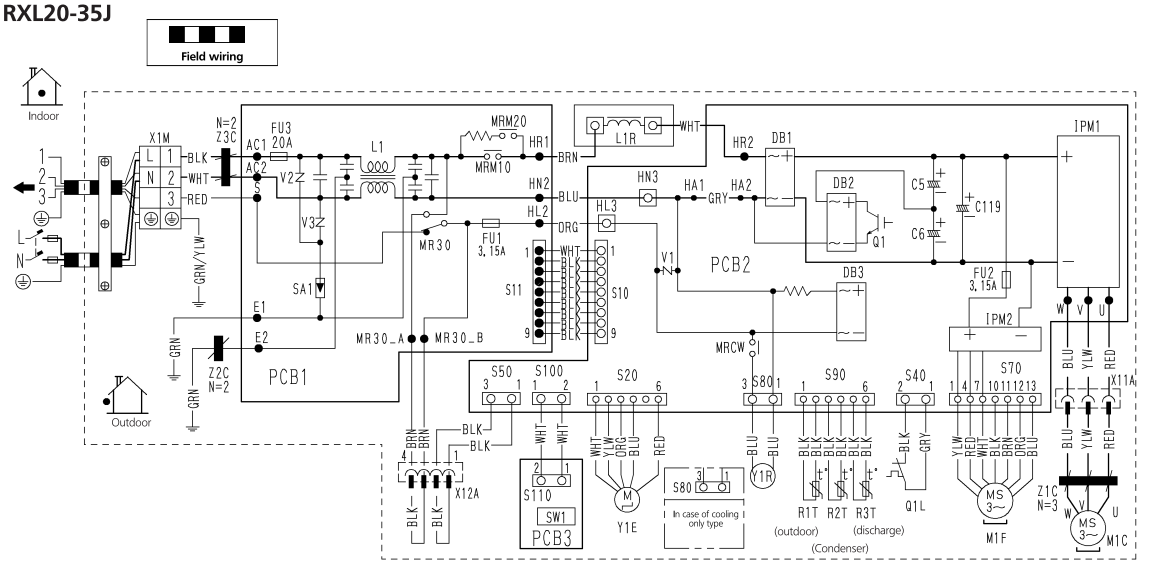



3D059586J

# 8 Wiring diagrams

## 8 - 1 Wiring Diagrams - Single Phase

**RXL20-35J**




Notes
1. Size: Length 105 X Width 185.
2. Refer to purchasing specification AS(Y)303002, unless otherwise specified.
3. This drawing was drawn on CAD system.
4. Refer to the nameplate for the power requirements.

| | | | | | |
|---|---|---|---|---|---|
| C5,C6,C119 | : Capacitor | N | : Neutral | SA1 | : Surge arrester |
| DB1,DB2,DB3 | : Diode bridge | Q1L | : Overload protector | SW1 | : Forced operation switch |
| FU1,FU2,FU3 | : Fuse | PCB1,PCB2,PCB3 | : Printed circuit board | V1,V2,V3 | : Varistor |
| IPM1,IPM2 | : Intelligent power module | S10,S11,S20,S40 | | X1M | : Terminal strip |
| L | : Live | S50,S70,S80,S90 | | Y1E | : Electronic expansion valve coil |
| L1 | : Coil | S100,S110,HL3 | | Y1R | : Reversing solenoide valve coil |
| L1R | : Reactor | HN3,X11A,X12A | : Connector | Z1C,Z2C,Z3C | : Ferrite core |
| M1C | : Compressor motor | R1T,R2T,R3T | : Thermistor | ⏚ | : Protective earth |
| M1F | : Fan motor | | | | |
| MRCW,MR30, MRM10,MRM20 | : Magnetic relay | | | | |

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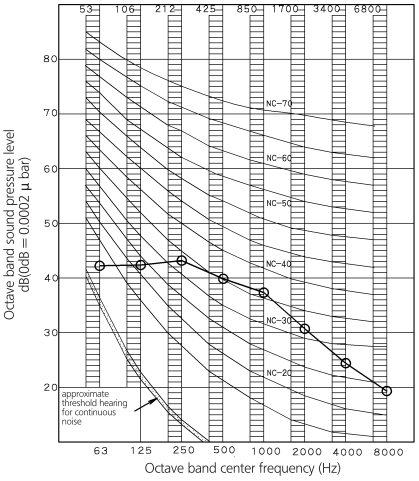
# 9

## 9 - 1 Sound Pressure Spectrum



**RXL20-25J**

Cooling

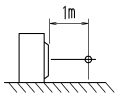



**NOTES**

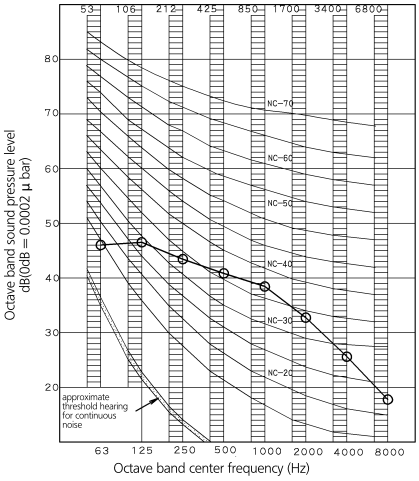
1 Overall (dB)
(B,G,N is already rectified)
2 Measuring place: Measure in anechoic room
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source 220~240V 50Hz
5 Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612

| Scale | 50Hz 220~240V (H) |
|---|---|
| A | 46 |

Cooling




Heating



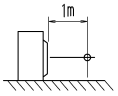

3D059599C

**NOTES**

1 Overall (dB)
(B,G,N is already rectified)
2 Measuring place: Measure in anechoic room
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source 220~240V 50Hz
5 Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612

| Scale | 50Hz 220~240V (H) |
|---|---|
| A | 47 |

Heating

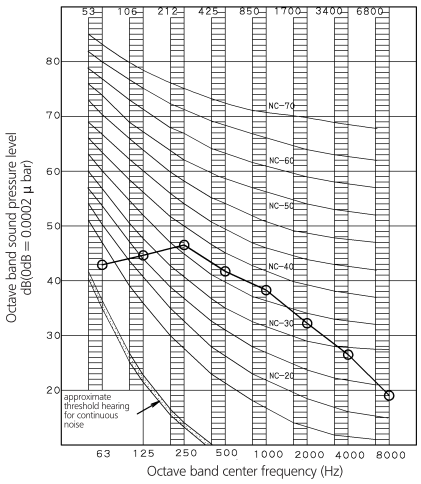


# 10 Sound data

## 10 - 1 Sound Pressure Spectrum

**RXL35J**

Cooling

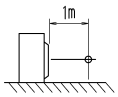



**NOTES**

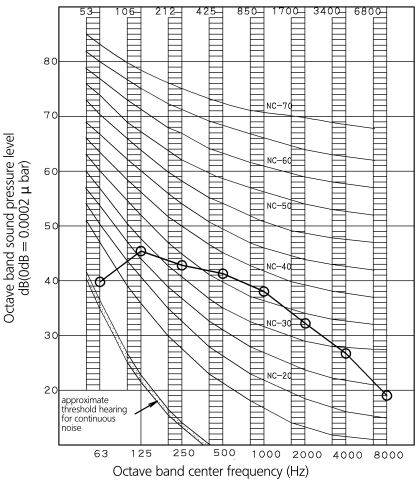
1 Overall (dB)
(B,G,N is already rectified)
2 Measuring place: Measure in anechoic room
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source 220~240V 50Hz
5 Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612

| Scale | 50Hz 220~240V (H) |
|---|---|
| A | 48 |

Cooling




Heating




3D059593E

**NOTES**

1 Overall (dB)
(B,G,N is already rectified)
2 Measuring place: Measure in anechoic room
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source 220~240V 50Hz
5 Location of microphone
JISC9612
The operation noise measuring method is in accordance with JISC9612

| Scale | 50Hz 220~240V (H) |
|---|---|
| A | 48 |

Heating