## Air Conditioning

# Technical Data

**Wall mounted unit**

**EEDEN15-100**

FTXZ-N

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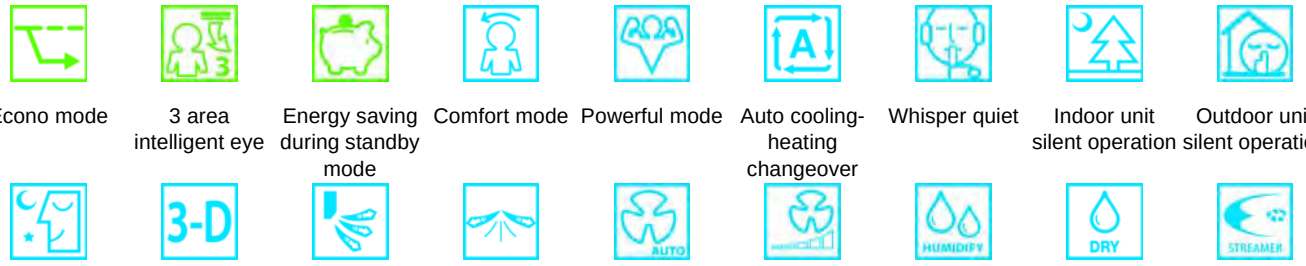
# 1 Features

## Complete climate control with (de)humidification, air purification & ventilation with top efficiencies in heating & cooling

- No need to clean filters, thanks to the self cleaining filter
- Unique combination of humidification, dehumidification, ventilation, air purification and heating & cooling in 1 system
- 3 area intelligent eye: air flow is sent to a zone other than where the person is located at that moment. Detection is done in 3 directions: left, front and right. If no people are detected, the unit will automatically switch over to the energy-efficient setting
- Reddot design award winner 2013
- Online controller (optional): control your indoor from any location with an app, via your local network or internet
- First R-32 air-to-air heat pump in the European market




Econo mode | 3 area intelligent eye | Energy saving during standby mode | Comfort mode | Powerful mode | Auto cooling-heating changeover | Whisper quiet | Indoor unit silent operation | Outdoor unit silent operation

Comfortable sleeping mode | 3-D air flow | Vertical auto swing | Horizontal auto swing | Auto fan speed | Fan speed steps | Ururu - humidification | Sarara - dehumidification | Flash Streamer

Titanium apatite photocatalytic air purification filter | 24 hour timer | Infrared remote control | Online controller via app | Auto-restart | Self diagnosis

# 2 Specifications



| 2-1 Technical Specifications | | | | | FTXZ25N | FTXZ35N | FTXZ50N |
|---|---|---|---|---|---|---|---|
| Power input | Cooling | Nom. | | kW | 0.030 | | |
| | Heating | Nom. | | kW | 0.030 | | |
| Casing | Colour | | | | White | | |
| Dimensions | Unit | Height/Width/Depth | | mm | 295/798/372 | | |
| | Packed unit | Height/Width/Depth | | mm | 434/865/361 | | |
| Weight | Unit | | | kg | 15 | | |
| | Packed unit | | | kg | 19 | | |
| Heat exchanger | Rows | Quantity | | | 4 (1) / 2 (2) | | |
| | Fin pitch | | | mm | 4 (1) / 6.35 (2) | | |
| | Stages | Quantity | | | 14 (1) / 12 (1) / 10 (2) / 8 (2) | | |
| | Tube type | | | | Hi-XA (ø4) (front) / Hi-XB (ø6.35) (back) tube | | |
| | Fin | Type | | | Multi slit fin | | |
| Air filter | Type | | | | Auto cleaning filter | | |
| Fan | Type | | | | Cross flow fan | | |
| | Air flow rate | Cooling | High | m³/min | 10.7 | 12.1 | 15.0 |
| | | | | cfm | 379 | 428 | 545 |
| | | | Nom. | m³/min | 7.5 | 8.4 | 9.2 |
| | | | | cfm | 265 | 295 | 326 |
| | | | Low | m³/min | 5.3 | 5.6 | 6.6 |
| | | | | cfm | 188 | 197 | 232 |
| | | | Silent operation | m³/min | 4.0 | | 4.6 |
| | | | | cfm | 141 | | 164 |
| | | Heating | High | m³/min | 11.7 | 13.3 | 14.4 |
| | | | | cfm | 415 | 469 | 517 |
| | | | Nom. | m³/min | 8.6 | 9.2 | 10.7 |
| | | | | cfm | 303 | 324 | 378 |
| | | | Low | m³/min | 6.7 | 6.9 | 7.7 |
| | | | | cfm | 236 | 245 | 274 |
| | | | Silent operation | m³/min | 4.8 | | 5.9 |
| | | | | cfm | 168 | | 210 |
| Fan motor | Model | | | | MM12E06P12V | | |
| | Speed | Steps | | | 5 + silent, + auto | | |
| | | Cooling | High/Medium/Low/Silent operation | rpm | 1,020/830/660/540 | 1,110/890/680/540 | 1,310/950/760/600 |
| | | Heating | High/Medium/Low/Silent operation | rpm | 1,080/900/760/600 | 1,190/940/780/600 | 1,270/1,040/840/700 |
| | Output | Rated | | W | 30 | | |
| Sound power level | Cooling | | | dBA | 54 | 57 | 60 |
| | Heating | | | dBA | 56 | 57 | 59 |
| Sound pressure level | Cooling | High/Nom./Low/Silent operation | | dBA | 38/33/26/19 | 42/35/27/19 | 47/38/30/23 |
| | Heating | High/Nom./Low/Silent operation | | dBA | 39/35/28/19 | 42/36/29/19 | 44/38/31/24 |
| Control systems | Infrared remote control | | | | ARC477A1 | | |
| Piping connections | Liquid | OD | | | 6.35 | | |
| | Gas | OD | | | 9.5 | | |
| | Heat insulation | | | | Both liquid and gas pipes | | |
| Temperature control | | | | | Microcomputer control | | |
| Air direction control | | | | | Right, Left, Horizontal, Downward | | |

# 2 Specifications

Standard Accessories : Dry batteries; Quantity : 2;
Standard Accessories : Remote control holder; Quantity : 1;
Standard Accessories : Wireless remote control; Quantity : 1;
Standard Accessories : Indoor unit fixing screws; Quantity : 3;
Standard Accessories : Photocatalytic air purifying and deodorising filter; Quantity : 1;
Standard Accessories : Mounting plate; Quantity : 1;



| 2-2 Electrical Specifications | | | | FTXZ25N | FTXZ35N | FTXZ50N |
|---|---|---|---|---|---|---|
| Power supply | Name | | | V1 | | |
| | Phase | | | 1~ | | |
| | Frequency | | Hz | 50 | | |
| | Voltage | | V | 220-240 | | |
| Current | Nominal running current (RLA) - 50Hz | Cooling | A | 0.14 (3) / 0.14 (4) / 0.13 (5) | | |
| | | Heating | A | 0.14 (3) / 0.14 (4) / 0.13 (5) | | |
| Wiring connections - 50Hz | For power supply | Remark | | 3 for power supply, 4 for interunit wiring (Earth wire included) | | |

**Notes**

(1) Front of heat exchanger

(2) Back of heat exchanger

(3) 220V

(4) 230V

(5) 240V

# 3 Options

## 3 - 1 Options

### FTXZ-N

**Indoor Units - Control systems**

| | | FTXZ25N | FTXZ35N | FTXZ50N |
|---|---|---|---|---|
| Wired remote control | | BRC073 (3) | | |
| Cord for wired remote control | 3m | BRCW901A03 | | |
| | 8m | BRCW901A08 | | |
| Wiring adapter normal open contact / normal open pulse contact | | KRP413A1S (1) | | |
| Centralised control board | Up to 5 rooms | KRC72 (2) | | |
| Interface adapter for DIII-net | | KRP928A2S | | |
| Online controller | | BRP069A42 | | |
| Modbus gateway | | RTD-RA | | |
| KNX gateway | | KLIC-DD | | |

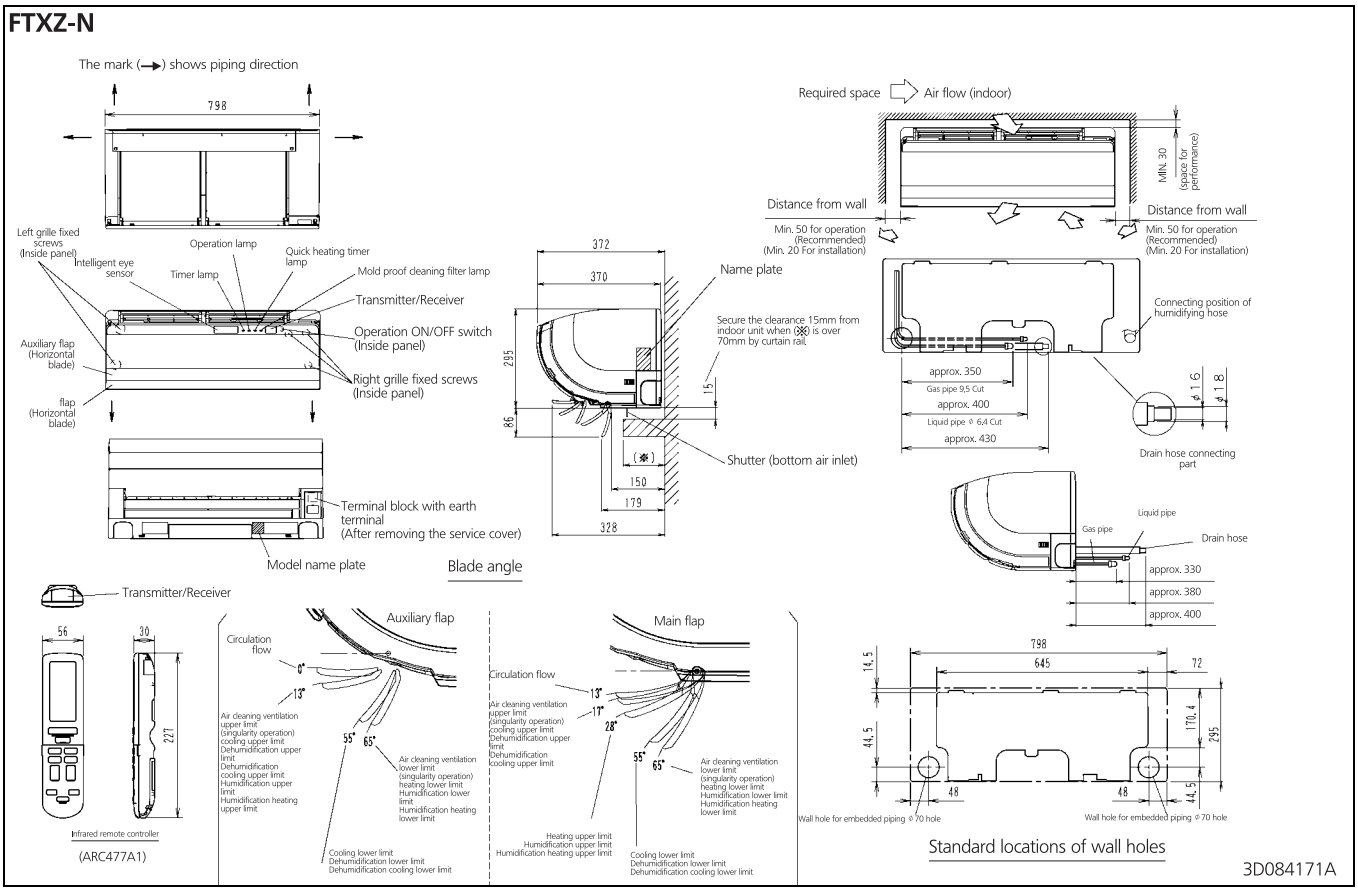
(1) Wiring adapter supplied by Daikin. Time clock and other devices: to be purchased locally.
(2) Wiring adapter is also required for each indoor unit.
(3) Cord for wired remote control BRCW901A03 or BRCW901A08 required.

# 4 Dimensional drawings

## 4 - 1 Dimensional Drawings



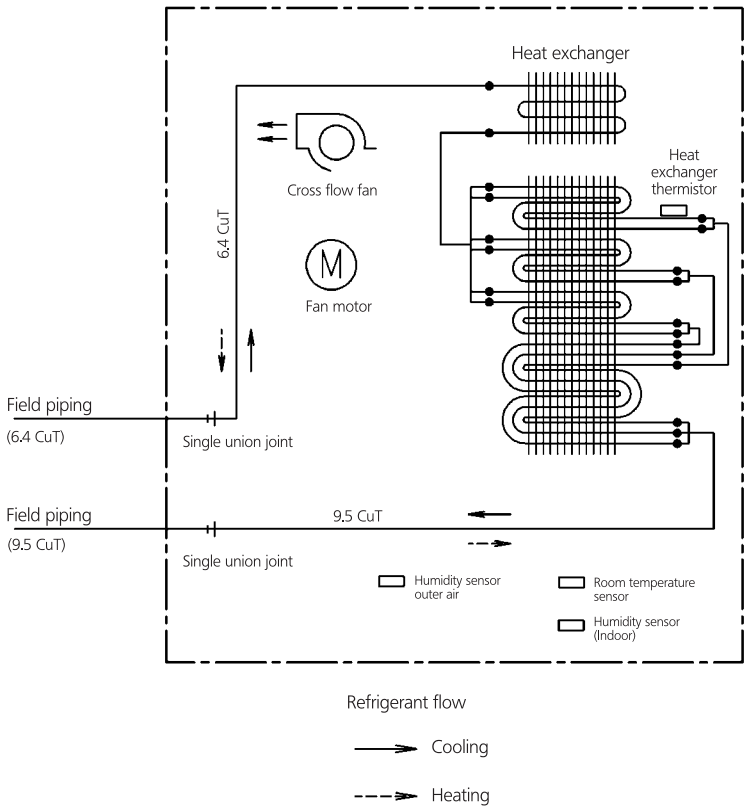
**FTXZ-N**



# 5 Piping diagrams

## 5 - 1 Piping Diagrams

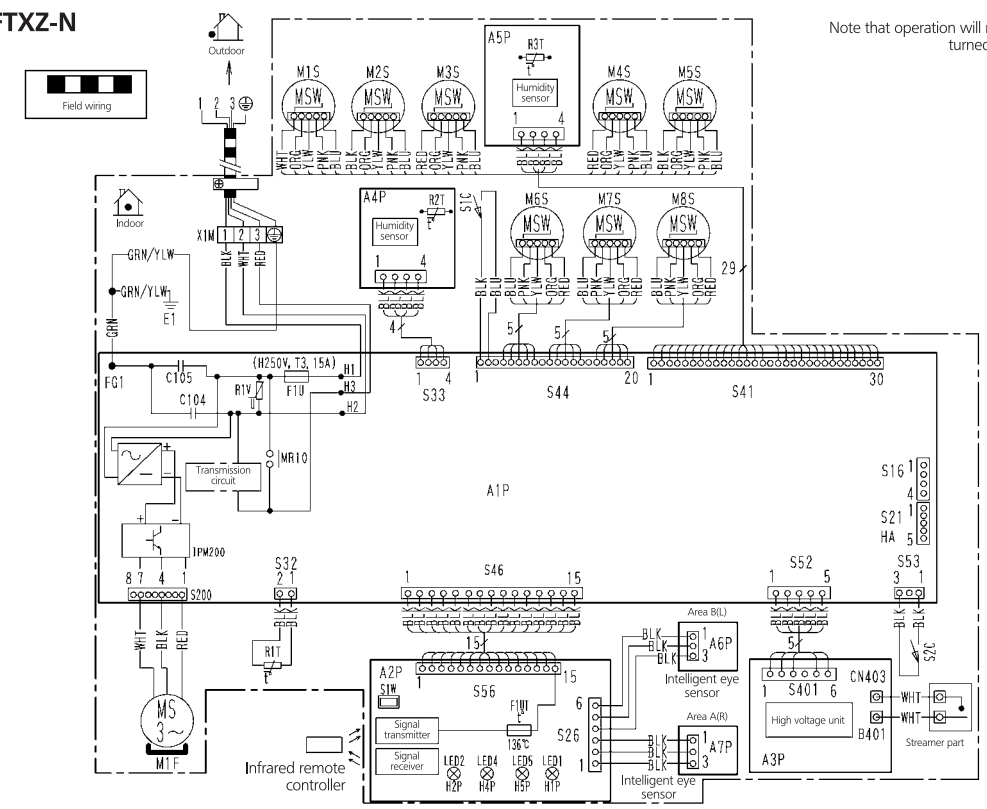
**FTXZ-N**



# 6 Wiring diagrams

## 6 - 1 Wiring Diagrams - Single Phase

**FTXZ-N**




CAUTION

Note that operation will restart automatically if the main power supply is turned off and then back on again.

| | |
|---|---|
| A1P~A7P | : Printed circuit board |
| C104,C105 | : Capacitor |
| FG1 | : Frame ground |
| F1U | : Fuse |
| F1UT | : Thermal fuse |
| H1P, H2P, H4P, H5P | : Pilot lamp |
| S1C | : Limit switch for brush |
| S2C | : Limit switch for streamer |
| M1F | : Fan motor |
| M1S~M8S | : Swing motor |
| MR10 | : Magnetic relay |
| R1T~R3T | : Thermistor |
| R1V | : Varistor |
| S16~S401, CN403 | : Connector |
| S1W | : Operation switch |
| X1M | : Terminal strip |
| ⏚ | : Protective earth |

NOTES:
1. Size: length 120 x width 110.
2. Refer to purchasing specification AS303002, unless otherwise specified.
3. This drawing was drawn on CAD system.

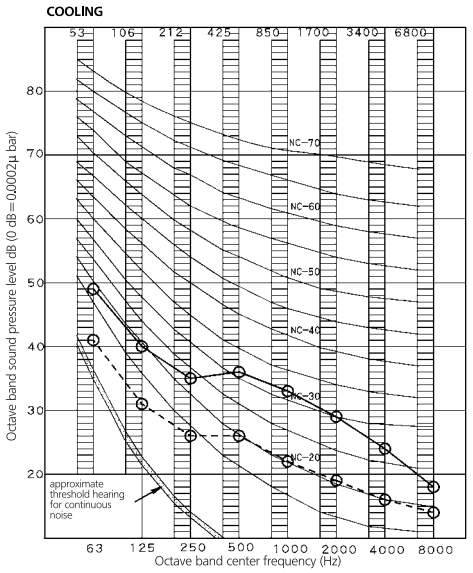
3D081990A

# 7 Sound data

## 7 - 1 Sound Pressure Spectrum - Cooling

### FTXZ25N

COOLING




**NOTES**

1 Overall (dB)

| Scale | 50Hz 220-240V (H) | 50Hz 220-240V (L) |
|---|---|---|
| A | 38 | 26 |

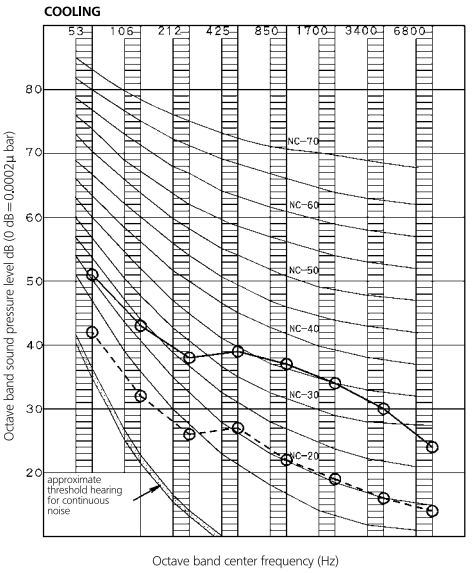
(B,G,N is already rectified)

2 Measuring place: Measure in anechoic room
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source 220-240V 50Hz; JIS standard
5 Standard external static pressure
○—○ 50 Hz 220-240V (H)
○- - -○ 50 Hz 220-240V (L)
Cooling
6 Location of microphone
The operation noise measuring method is in accordance with JISC9612

3D084697

### FTXZ35N

COOLING




**NOTES**

1 Overall (dB)

| Scale | 50Hz 220-240V (H) | 50Hz 220-240V (L) |
|---|---|---|
| A | 42 | 27 |

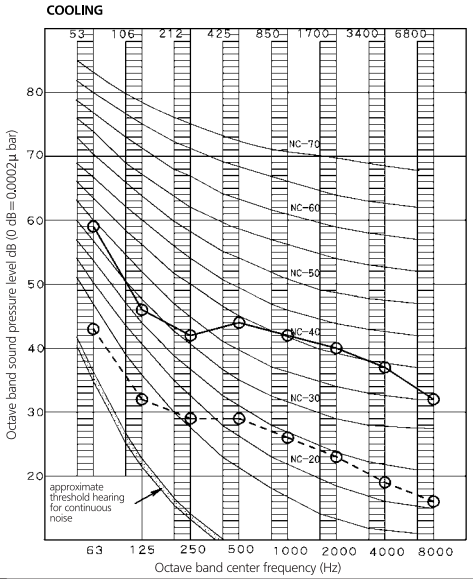
(B,G,N is already rectified)

2 Measuring place: Measure in anechoic room
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source 220-240V 50Hz; JIS standard
5 Standard external static pressure
○—○ 50 Hz 220-240V (H)
○- - -○ 50 Hz 220-240V (L)
Cooling
6 Location of microphone
The operation noise measuring method is in accordance with JISC9612

3D084698

### FTXZ50N

COOLING




**NOTES**

1 Overall (dB)

| Scale | 50Hz 220-240V (H) | 50Hz 220-240V (L) |
|---|---|---|
| A | 47 | 30 |

(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; JIS standard
5 Standard external static pressure
○—○ 50 Hz 220-240V (H)
○- - -○ 50 Hz 220-240V (L)
Cooling
6 Location of microphone
The operation noise measuring method is in accordance with JISC9612

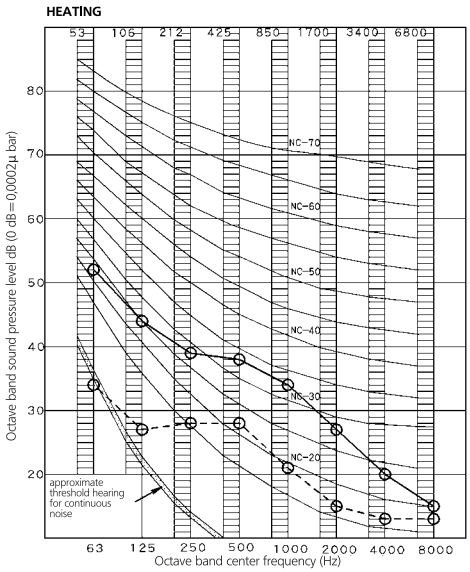
3D084699

# 7 Sound data

## 7 - 2 Sound Pressure Spectrum - Heating



### FTXZ25N




**NOTES**

1 Overall (dB)

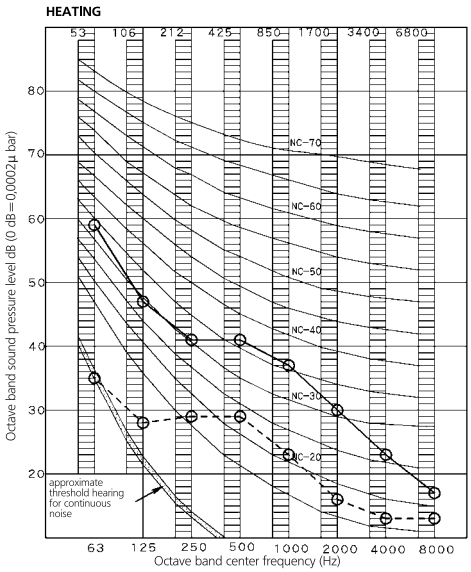
| Scale | 50Hz 220-240V (H) | 50Hz 220-240V (L) |
|---|---|---|
| A | 39 | 28 |

(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; JIS standard
5 Standard external static pressure
50 Hz 220-240V (H)
50 Hz 220-240V (L)
Heating
6 Location of microphone
The operation noise measuring method is in accordance with JISC9612

3D084697

### FTXZ35N




**NOTES**

1 Overall (dB)

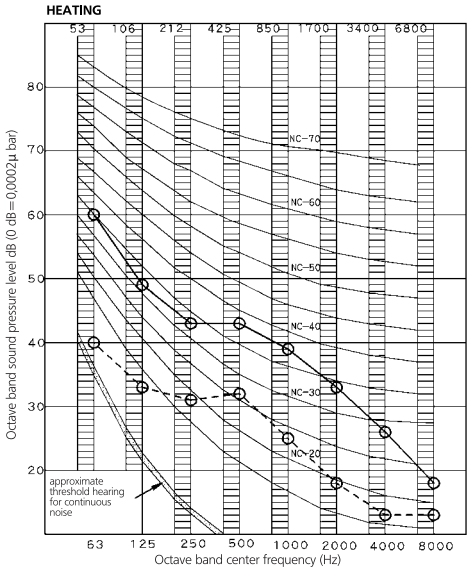
| Scale | 50Hz 220-240V (H) | 50Hz 220-240V (L) |
|---|---|---|
| A | 42 | 29 |

(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; JIS standard
5 Standard external static pressure
50 Hz 220-240V (H)
50 Hz 220-240V (L)
Heating
6 Location of microphone
The operation noise measuring method is in accordance with JISC9612

3D084698

### FTXZ50N




**NOTES**

1 Overall (dB)

| Scale | 50Hz 220-240V (H) | 50Hz 220-240V (L) |
|---|---|---|
| A | 44 | 31 |

(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; JIS standard
5 Standard external static pressure
50 Hz 220-240V (H)
50 Hz 220-240V (L)
Heating
6 Location of microphone
The operation noise measuring method is in accordance with JISC9612

3D084699

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