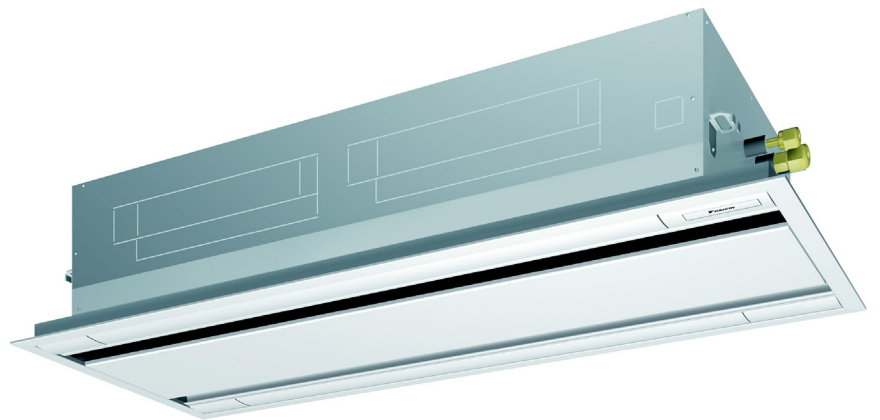




Air Conditioning Technical Data

2-way blow ceiling mounted cassette



EEDEN13-204

FXCQ-A

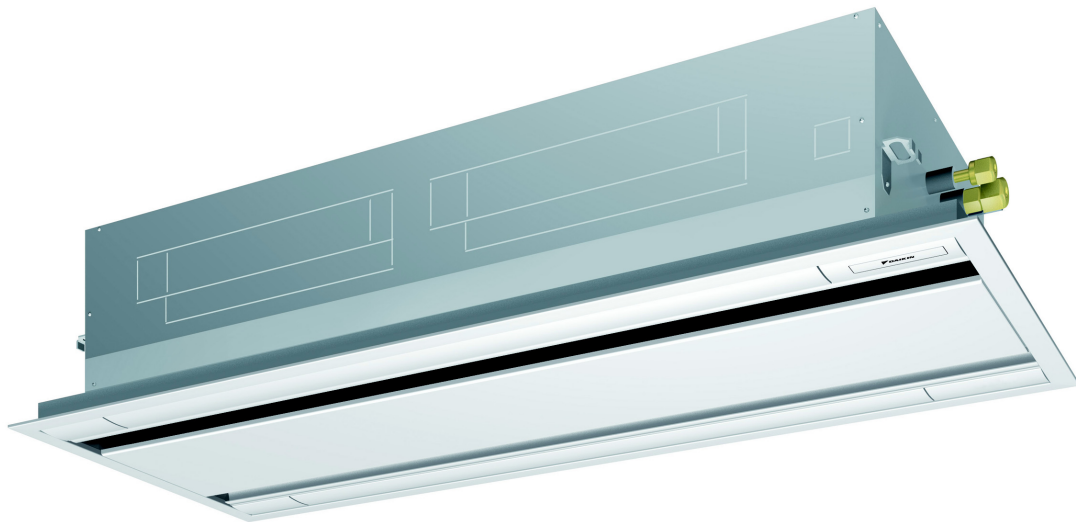
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1 Features

- Low energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Stylish unit blends easily with any interior, as the flaps close entirely when not in operation
- Improved comfort thanks to automatic air flow adjustment to required load
- Individual flap control: one flap can be easily closed via the wired remote controller (BRC1E52) in case you would refurbish or rearrange your interior
- Auto swing function ensures efficient air and temperature distribution and prevents ceiling soiling
- Easy to install: depth of all units is 600mm
- Maintenance operations can be performed by removing the front panel
- Standard drain pump with 850mm lift



3 steps



standard

2 Specifications

| 2-1 Technical Specifications | | | | FXCQ20A | FXCQ25A | FXCQ32A | FXCQ40A | FXCQ50A | FXCQ63A | FXCQ80A | FXCQ125A | |
|------------------------------|----------------------|----------|---|--------------------------------|---------|---------|---------|------------|---------|-------------|--------------|---------|
| Cooling capacity | Nom. | | kW | 2.2 (1) | 2.8 (1) | 3.6 (1) | 4.5 (1) | 5.6 (1) | 7.1 (1) | 9.0 (1) | 14.0 (1) | |
| Heating capacity | Nom. | | kW | 2.5 (2) | 3.2 (2) | 4.0 (2) | 5.0 (2) | 6.3 (2) | 8.0 (2) | 10.0 (2) | 16.0 (2) | |
| Power input - 50Hz | Cooling | Nom. | kW | 0.031 | 0.039 | | 0.041 | 0.059 | 0.063 | 0.090 | 0.149 | |
| | Heating | Nom. | kW | 0.028 | 0.035 | | 0.037 | 0.056 | 0.060 | 0.086 | 0.146 | |
| Casing | Material | | | Galvanised steel plate | | | | | | | | |
| Dimensions | Unit | Height | mm | 305 | | | | | | | | |
| | | Width | mm | 775 | | | | 990 | | 1,445 | | |
| | | Depth | mm | 620 | | | | | | | | |
| Weight | Unit | | kg | 19 | | | 22 | 25 | 33 | 38 | | |
| Decoration panel | Model | | | BYBCQ40HW1 | | | | BYBCQ63HW1 | | BYBCQ125HW1 | | |
| | Colour | | | Fresh white (6.5Y 9.5/0.5) | | | | | | | | |
| | Dimensions | Height | mm | 55 | | | | | | | | |
| | | Width | mm | 1,070 | | | | 1,285 | | 1,740 | | |
| | | Depth | mm | 700 | | | | | | | | |
| Weight | Unit | | kg | 10 | | | 11 | 13 | | | | |
| Heat exchanger | Rows | Quantity | | 2 | | | | | | | | |
| | Fin pitch | | mm | 1.2 | | | | | | | | |
| | Face area | | m ² | 0.334 | | | | 0.218 | | 0.320 | | |
| | Stages | Quantity | | 16 | | | | | | | | |
| Heat exchanger 2 | Face area | | m ² | - | | | | 0.218 | | 0.320 | | |
| Fan | Type | | | Turbo fan | | | | | | | | |
| | Air flow rate - 50Hz | Cooling | High | m ³ /min | 10.5 | 11.5 | 12 | 15 | 16 | 26 | 32 | |
| | | | Nom. | m ³ /min | 9 | 9.5 | 10.5 | 13 | 14 | 22.5 | 27.5 | |
| | | | Low | m ³ /min | 7.5 | 8 | 8.5 | 10.5 | 11.5 | 18.5 | 22.5 | |
| Quantity | | | 1 | | | | 2 | | | | | |
| Model | | | QTS36A15M | | | | | | | | | |
| Output | High | W | 46 | | | | 106 | 46 | 106 | | | |
| Drive | | | Direct drive | | | | | | | | | |
| Fan motor 2 | Drive | | | - | | | | | | | Direct drive | |
| | Output | High | W | - | | | | | | | 46.000 | 106.000 |
| Sound pressure level | Cooling | High | dBA | 32.0 | 34.0 | | 36.0 | 37.0 | 39.0 | 42.0 | 46.0 | |
| | | Nom. | dBA | 30.0 | 31.0 | 32.0 | 33.0 | 35.0 | 37.0 | 38.0 | 42.0 | |
| | | Low | dBA | 28.0 | 29.0 | 30.0 | 31.0 | | 32.0 | 33.0 | 38.0 | |
| | Heating | High | dBA | 32.0 | 34.0 | | 36.0 | 37.0 | 39.0 | 42.0 | 46.0 | |
| | | Nom. | dBA | 30.0 | 31.0 | 32.0 | 33.0 | 35.0 | 37.0 | 38.0 | 42.0 | |
| | | Low | dBA | 28.0 | 29.0 | 30.0 | 31.0 | | 32.0 | 33.0 | 38.0 | |
| Refrigerant | Type | | | R-410A | | | | | | | | |
| | Control | | | Electronic expansion valve | | | | | | | | |
| Piping connections | Liquid | Type | | Flare connection | | | | | | | | |
| | | OD | mm | 6.35 | | | | 9.52 | | | | |
| | Gas | Type | | Flare connection | | | | | | | | |
| | | OD | mm | 12.7 | | | | 15.9 | | | | |
| Drain | | | VP25 (O.D. 32 / I.D. 25) | | | | | | | | | |
| Temperature control | | | Microprocessor thermostat for cooling and heating | | | | | | | | | |
| Air filter | Type | | | Resin net with mold resistance | | | | | | | | |
| Safety devices | Item | 01 | | Fuse | | | | | | | | |

- Standard Accessories : Insulation piping cover for drain piping;
- Standard Accessories : Screws;
- Standard Accessories : Clamps;
- Standard Accessories : Sealing material;
- Standard Accessories : Washer clamp;
- Standard Accessories : Joint insulating material;
- Standard Accessories : Drain hose;
- Standard Accessories : Clamp metal;
- Standard Accessories : Washer for hanger bracket;
- Standard Accessories : Installation pattern;

2 Specifications

Standard Accessories : Declaration of conformity;
 Standard Accessories : Installation manual;
 Standard Accessories : Operation manual;

2

| 2-2 Electrical Specifications | | | FXCQ20A | FXCQ25A | FXCQ32A | FXCQ40A | FXCQ50A | FXCQ63A | FXCQ80A | FXCQ125A | |
|-------------------------------|----------------------------|-------|---------|---------|---------|---------|---------|---------|---------|----------|--|
| Power supply | Name | | VE | | | | | | | | |
| | Phase | | 1~ | | | | | | | | |
| | Frequency | Hz | 50 | | | | | | | | |
| | Voltage | V | 220-240 | | | | | | | | |
| Voltage range | Min. | % | -10 | | | | | | | | |
| | Max. | % | 10 | | | | | | | | |
| Current - 50Hz | Minimum circuit amps (MCA) | | A | 0.3 | | | 0.4 | 0.5 | 0.6 | 1.1 | |
| | Maximum fuse amps (MFA) | | A | 16 | | | | | | | |
| | Full load amps (FLA) | Total | A | 0.2 | | | 0.3 | 0.4 | 0.5 | 0.9 | |

Notes

- (1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m (horizontal)
- (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m (horizontal)
- (3) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- (4) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- (5) Maximum allowable voltage range variation between phases is 2%.
- (6) MCA/MFA: MCA = 1.25 x FLA
- (7) MFA ≤ 4 x FLA
- (8) Next lower standard fuse rating minimum 16A
- (9) Select wire size based on the value of MCA
- (10) Instead of a fuse, use a circuit breaker

3 Electrical data

3 - 1 Electrical Data

| FXCQ-A | | | | Power supply | | IFM | | Input (W) | |
|----------|-------|---------|----------------------|--------------|-----|---------------------|-----|-----------|---------|
| Model | Units | | | MCA | MFA | kW | FLA | Cooling | Heating |
| | Hz | Volts | Voltage range | | | | | | |
| FXCQ20A | 50 | 220-240 | Max. 264 Min. 198 | 0.3 | 16 | 0.046 | 0.2 | 31 | 28 |
| FXCQ25A | | | | 0.3 | 16 | 0.046 | 0.2 | 39 | 35 |
| FXCQ32A | | | | 0.3 | 16 | 0.046 | 0.2 | 39 | 35 |
| FXCQ40A | | | | 0.3 | 16 | 0.046 | 0.2 | 41 | 37 |
| FXCQ50A | | | | 0.4 | 16 | 0.046 | 0.3 | 59 | 56 |
| FXCQ63A | | | | 0.5 | 16 | 0.106 | 0.4 | 63 | 60 |
| FXCQ80A | | | | 0.6 | 16 | 0.046 + 0.046 | 0.5 | 90 | 86 |
| FXCQ125A | | | | 1.1 | 16 | 0.106 + 0.106 | 0.9 | 149 | 146 |

Symbols:

MCA: Min. Circuit Amps (A)
MFA: Max. Fuse Amps (see note 5)
kW: Fan Motor Rated Output (kW)
FLA: Full Load Amps (A)
IFM: Indoor Fan Motor

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NOTES

- 1 Voltage range:
Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- 2 Maximum allowable voltage unbalance between phases is 2%.
- 3 MCA/MFA
 $MCA = 1.25 \times FLA$
 $MFA \approx 4 \times FLA$
(next lower standard fuse rating min. 16A)
- 4 Select wire size based on the MCA.
- 5 Instead of fuse, use circuit breaker.

4 Safety device settings

4 - 1 Safety Device Settings

4

FXCQ-A

| Safety devices | | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 125 |
|----------------|-----------------------------|------------|------------|------------|------------|-----------|------------|----------------------|----------------------|
| FXCQ-A | PC board fuse | 250V 3.15A | 250V 3.15A | 250V 3.15A | 250V 3.15A | 250 3.15A | 250V 3.15A | 250V 3.15A | 250V 3.15A |
| | PC board fuse (Fan driver) | --- | --- | --- | --- | --- | --- | 250V 5A 250V 6.3A | 250V 5A 250V 6.3A |
| | Drain pump thermal fuse | °C --- | °C --- | °C --- | °C --- | °C --- | °C --- | °C --- | °C --- |
| | Fan motor thermal fuse | °C --- | °C --- | °C --- | °C --- | °C --- | °C --- | °C --- | °C --- |
| | Fan motor thermal protector | °C --- | °C --- | °C --- | °C --- | °C --- | °C --- | °C --- | °C --- |

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5 Options

5 - 1 Options

| FXCQ-A | | | | | | | | | | |
|------------------|--|---------|------------|---------|---------|---------|------------|---------|-------------|--|
| Options | | | | | | | | | | |
| Item | Model | FXCQ20A | FXCQ25A | FXCQ32A | FXCQ40A | FXCQ50A | FXCQ63A | FXCQ80A | FXCQ125A | |
| Decoration panel | | | BYBCQ40HW1 | | | | BYBCQ63HW1 | | BYBCQ125HW1 | |
| Filter related | High efficiency filter 65% <small>Note 1</small> | | KAFP532B50 | | | | KAFP532B80 | | KAFP532B160 | |
| | High efficiency filter 90% <small>Note 1</small> | | KAFP533B50 | | | | KAFP533B80 | | KAFP533B160 | |
| | Filter chamber for bottom suction | | KDDFP53B50 | | | | KDDFP53B80 | | KDDFP53B160 | |
| | Long life replacement filter | | KAFP531B50 | | | | KAFP531B80 | | KAFP531B160 | |

Control systems

| Item | Model | FXCQ20A | FXCQ25A | FXCQ32A | FXCQ40A | FXCQ50A | FXCQ63A | FXCQ80A | FXCQ125A | |
|--|----------|---------|---------|---------|---------|----------------------------------|----------|---------|----------|--|
| Remote controller | Wired | | | | | BRC1D52, BRC1E52A/B | | | | |
| | Infrared | H/P | | | | BRC7CA52 | | | | |
| | | C/O | | | | | BRC7CA57 | | | |
| Central remote controller | | | | | | DCS302C51 | | | | |
| Unified ON/OFF controller | | | | | | DCS301B51 | | | | |
| Schedule timer | | | | | | DST301B51 | | | | |
| Wiring adapter for electrical appendices (1) | | | | | | KRP2A51 ※ | | | | |
| Wiring adapter for electrical appendices (2) | | | | | | KRP4A51 ※ | | | | |
| External control adapter for outdoor unit (Must be installed on indoor units) | | | | | | DTA104A61 ※ | | | | |
| Installation box for adapter PCB <small>Note 2</small> | | | | | | KRP1C96 <small>Note 3, 4</small> | | | | |
| Remote sensor | | | | | | KRCS01-4B | | | | |
| Electrical box with earth terminal (3 blocks) | | | | | | KJB311A | | | | |
| Electrical box with earth terminal (2 blocks) | | | | | | KJB212A | | | | |
| Noise filter (for electromagnetic interface use only) | | | | | | KEK26-1A | | | | |

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- Notes:
1. A filter chamber is required when installing a high efficiency filter.
 2. Installation box is necessary for each adapter marked ※.
 3. Up to 2 adapters can be fixed for each installation box.
 4. Only 1 installation box can be installed for each indoor unit.

6 Capacity tables

6 - 1 Cooling Capacity Tables

FXCQ-A

Cooling Capacity

TC: Total capacity, kW
SHC: Sensible heat capacity, kW

| Unit size | Indoor air temp. | | | | | | | | | | | | | |
|-----------|------------------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|-----------|-----|
| | 14.0 °CWB | | 16.0 °CWB | | 18.0 °CWB | | 19.0 °CWB | | 20.0 °CWB | | 22.0 °CWB | | 24.0 °CWB | |
| | 20 °CDB | | 23 °CDB | | 26 °CDB | | 27 °CDB | | 28 °CDB | | 30 °CDB | | 32 °CDB | |
| | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC |
| 20 | 1.5 | 1.4 | 1.8 | 1.7 | 2.1 | 1.9 | 2.2 | 1.9 | 2.2 | 1.8 | 2.3 | 1.7 | 2.3 | 1.7 |
| 25 | 1.9 | 1.7 | 2.3 | 2.0 | 2.6 | 2.2 | 2.8 | 2.3 | 2.8 | 2.2 | 2.9 | 2.1 | 3.0 | 2.1 |
| 32 | 2.4 | 2.0 | 2.9 | 2.3 | 3.4 | 2.6 | 3.6 | 2.6 | 3.6 | 2.6 | 3.7 | 2.6 | 3.8 | 2.5 |
| 40 | 3.0 | 2.5 | 3.6 | 2.9 | 4.2 | 3.2 | 4.5 | 3.2 | 4.6 | 3.1 | 4.7 | 3.0 | 4.8 | 3.0 |
| 50 | 3.8 | 3.0 | 4.5 | 3.5 | 5.2 | 3.9 | 5.6 | 3.9 | 5.7 | 3.8 | 5.8 | 3.6 | 5.9 | 3.1 |
| 63 | 4.8 | 3.9 | 5.7 | 4.9 | 6.6 | 5.0 | 7.1 | 5.0 | 7.2 | 5.4 | 7.4 | 5.3 | 7.5 | 5.9 |
| 80 | 6.1 | 4.9 | 7.2 | 5.7 | 8.4 | 6.3 | 9.0 | 6.5 | 9.1 | 6.3 | 9.3 | 6.1 | 9.5 | 6.1 |
| 125 | 9.4 | 7.5 | 11.3 | 8.7 | 13.1 | 9.7 | 14.0 | 9.9 | 14.2 | 9.8 | 14.5 | 9.5 | 14.9 | 9.1 |

NOTES - OPMERKINGEN - REMARQUES - ANMERKUNGEN - NOTAS - NOTE - ΣΗΜΕΙΩΣΕΙΣ - NOTLAR - ПРИМЕЧАНИЯ

- This table is for the selection of indoor equipment.
 - Deze tabel is bedoeld voor het kiezen van de binneneenheid.
 - Ce tableau concerne la sélection de l'équipement intérieur.
 - Diese Tabelle ist für die Auswahl der Innenanlagen.
 - Esta tabla es para seleccionar el equipo interior.
 - Usare questa tabella per la selezione delle apparecchiature interne.
 - Αυτός ο πίνακας προορίζεται για την επιλογή εσωτερικού εξοπλισμού.
 - Bu tablo iç ünite ekipmanlarının seçimine yöneliktir.
 - Эта таблица предназначена для выбора устанавливаемого в помещении оборудования.
- In the event that conditions differ due to the design requirements after system selection, actual operating ability of the indoor equipment will differ from that noted in the table because of changes in the outdoor air temperature and load factor.
 - Als nadat u het systeem hebt gekozen de voorwaarden afwijken van de ontwerpvereisten, dan zal het reële bedrijfsvermogen van de binneneenheid afwijken van de in de tabel vermelde gegevens, wegens de afwijkende buitenluchttemperatuur en de belastingsfactor.
 - Si les exigences de conception après la sélection du système entraînent une modification des conditions, les capacités opérationnelles réelles de l'équipement intérieur diffèrent de celles indiquées dans le tableau en raison de la modification de la température de l'air extérieure et du facteur de charge.
 - Falls Bedingungen aufgrund der Konstruktionsanforderungen nach der Systemauswahl abweichen, dann weicht aufgrund der Änderungen der Außenlufttemperatur und des Lastfaktors die tatsächliche Betriebsfähigkeit der Innenanlage von der in der Tabelle aufgeführten ab.
 - En caso de que las condiciones difieran debido a los requisitos de diseño tras seleccionar el sistema, la capacidad de funcionamiento real del equipo interior diferirá de la que se muestra en la tabla debido a los cambios de la temperatura de aire exterior y al factor de carga.
 - Nel caso in cui intervenissero dei cambiamenti nelle condizioni dovuti a requisiti di progettazione successivi alla selezione del sistema, la capacità operativa effettiva delle apparecchiature interne sarà diversa da quella indicata in tabella a causa della diversa temperatura dell'aria esterna e del fattore di carico.
 - Στην περίπτωση που οι συνθήκες διαφέρουν λόγω των απαιτήσεων σχεδιασμού μετά την επιλογή συστήματος, η πραγματική δυνατότητα του εσωτερικού εξοπλισμού θα διαφέρει από την αναφερόμενη στον πίνακα, λόγω των αλλαγών στην εξωτερική θερμοκρασία αέρα και στο συντελεστή φορτίου.
 - Sistem seçiminin sonrasında tasarım gereklilikleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipman için gerçek çalışma kapasitesi tabloda belirtilenden farklı olacaktır.
 - В случае, если реальные условия отличаются от проектных условий работы, используемых при выборе системы, фактические характеристики устанавливаемого в помещении оборудования будут отличаться от указанных в таблице вследствие изменения температуры воздуха снаружи и показателя нагрузки.
- In this case, use the ability table for the indoor equipment selected and correct for the ratio of change in ability.
 - Gebruik in dat geval de vermogenstabel van de gekozen binneninstallatie en kies het juiste vermogen.
 - Le cas échéant, utiliser le tableau de capacité de l'équipement intérieur sélectionner et corriger le rapport de modification de capacité.
 - Verwenden Sie in diesem Fall die Fähigkeit für die ausgewählte Innenanlage und korrigieren Sie das Verhältnis der Änderung in der Fähigkeit.
 - En este caso, utilice la tabla de capacidades del equipo interior seleccionado y corrija la relación de cambio en capacidad.
 - In questo caso, usare la tabella delle capacità per le apparecchiature interne selezionate ed apportare le modifiche del caso in base alla percentuale di cambiamento di capacità.
 - Σε αυτή την περίπτωση χρησιμοποιήστε τον πίνακα δυνατοτήτων για τον επιλεγμένο εσωτερικό εξοπλισμό και διορθώστε για την αναλογία αλλαγής στη δυνατότητα.
 - Bu durumda, seçilen iç ekipman için kapasite tablosunu kullanın ve kapasitedeki değişim oranına göre düzeltme yapın.
 - В этом случае используйте таблицу характеристик выбранного устанавливаемого в помещении оборудования и внесите необходимую поправку на их изменение.

6 Capacity tables

6 - 2 Heating Capacity Tables

FXCQ-A

Heating Capacity

| Unit size | Indoor air temp. °CDB | | | | | |
|-----------|-----------------------|------|------|------|------|------|
| | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | kW | kW | kW | kW | kW | kW |
| 20 | 2.6 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 |
| 25 | 3.4 | 3.4 | 3.2 | 3.1 | 3.0 | 2.8 |
| 32 | 4.2 | 4.2 | 4.0 | 3.9 | 3.7 | 3.5 |
| 40 | 5.2 | 5.2 | 5.0 | 4.8 | 4.7 | 4.4 |
| 50 | 6.6 | 6.6 | 6.3 | 6.1 | 5.9 | 5.5 |
| 63 | 8.4 | 8.4 | 8.0 | 7.7 | 7.5 | 7.0 |
| 80 | 10.5 | 10.5 | 10.0 | 9.7 | 9.4 | 8.7 |
| 125 | 16.8 | 16.8 | 16.0 | 15.5 | 15.0 | 13.9 |

NOTES - OPMERKINGEN - REMARQUES - ANMERKUNGEN - NOTAS - NOTE - ΣΗΜΕΙΩΣΕΙΣ - NOTLAR - ПРИМЕЧАНИЯ

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 - Si les exigences de conception après la sélection du système entraînent une modification des conditions, les capacités opérationnelles réelles de l'équipement intérieur diffèrent de celles indiquées dans le tableau en raison de la modification de la température de l'air extérieure et du facteur de charge.
 - Falls Bedingungen aufgrund der Konstruktionsanforderungen nach der Systemauswahl abweichen, dann weicht aufgrund der Änderungen der Außenlufttemperatur und des Lastfaktors die tatsächliche Betriebsfähigkeit der Innenanlage von der in der Tabelle aufgeführten ab.
 - En caso de que las condiciones difieran debido a los requisitos de diseño tras seleccionar el sistema, la capacidad de funcionamiento real del equipo interior diferirá de la que se muestra en la tabla debido a los cambios de la temperatura de aire exterior y al factor de carga.
 - Nel caso in cui intervenissero dei cambiamenti nelle condizioni dovuti a requisiti di progettazione successivi alla selezione del sistema, la capacità operativa effettiva delle apparecchiature interne sarà diversa da quella indicata in tabella a causa della diversa temperatura dell'aria esterna e del fattore di carico.
 - Στην περίπτωση που οι συνθήκες διαφέρουν λόγω των απαιτήσεων σχεδιασμού μετά την επιλογή συστήματος, η πραγματική δυνατότητα του εσωτερικού εξοπλισμού θα διαφέρει από την αναφερόμενη στον πίνακα, λόγω των αλλαγών στην εξωτερική θερμοκρασία αέρα και στο συντελεστή φορτίου.
 - Sistem seçiminin sonra tasarım gerekleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipmanın gerçek çalışma kapasitesi tabloda belirtilenden farklı olacaktır.
 - В случае, если реальные условия отличаются от проектных условий работы, используемых при выборе системы, фактические характеристики устанавливаемого в помещении оборудования будут отличаться от указанных в таблице вследствие изменения температуры воздуха снаружи и показателя нагрузки.
- In this case, use the ability table for the indoor equipment selected and correct for the ratio of change in ability.
 - Gebruik in dat geval de vermogenstabel van de gekozen binneninstallatie en kies het juiste vermogen.
 - Le cas échéant, utiliser le tableau de capacité de l'équipement intérieur sélectionner et corriger le rapport de modification de capacité.
 - Verwenden Sie in diesem Fall die Fähigkeit für die ausgewählte Innenanlage und korrigieren Sie das Verhältnis der Änderung in der Fähigkeit.
 - En este caso, utilice la tabla de capacidades del equipo interior seleccionado y corrija la relación de cambio en capacidad.
 - In questo caso, usare la tabella delle capacità per le apparecchiature interne selezionate ed apportare le modifiche del caso in base alla percentuale di cambiamento di capacità.
 - Σε αυτή την περίπτωση χρησιμοποιήστε τον πίνακα δυνατοτήτων για τον επιλεγμένο εσωτερικό εξοπλισμό και διορθώστε για την αναλογία αλλαγής στη δυνατότητα.
 - Bu durumda, seçilen iç ekipman için kapasite tablosunu kullanın ve kapasitedeki değişim oranına göre düzeltilme yapın.
 - В этом случае используйте таблицу характеристик выбранного устанавливаемого в помещении оборудования и внесите необходимую поправку на их изменение.

6 Capacity tables

6 - 3 Capacity Correction Factor

FXCQ-A

| | | Capacity correction factor Te = 9°C | | | | | | | |
|---------|-----|-------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--|
| | | 14.0 °CWB 20.0 °CDB | 16.0 °CWB 23.0 °CDB | 18.0 °CWB 26.0 °CDB | 19.0 °CWB 27.0 °CDB | 20.0 °CWB 28.0 °CDB | 22.0 °CWB 30.0 °CDB | 24.0 °CWB 32.0 °CDB | |
| FXCQ20 | TC | 0.667 | 0.697 | 0.748 | 0.767 | 0.788 | 0.817 | 0.844 | |
| | SHF | 1.172 | 1.184 | 1.130 | 1.106 | 1.084 | 1.061 | 1.039 | |
| FXCQ25 | TC | 0.681 | 0.690 | 0.741 | 0.766 | 0.787 | 0.817 | 0.842 | |
| | SHF | 1.147 | 1.192 | 1.135 | 1.108 | 1.086 | 1.061 | 1.041 | |
| FXCQ32 | TC | 0.681 | 0.690 | 0.741 | 0.766 | 0.787 | 0.817 | 0.842 | |
| | SHF | 1.147 | 1.192 | 1.135 | 1.108 | 1.086 | 1.061 | 1.041 | |
| FXCQ40 | TC | 0.671 | 0.687 | 0.748 | 0.772 | 0.792 | 0.821 | 0.854 | |
| | SHF | 1.167 | 1.191 | 1.128 | 1.101 | 1.082 | 1.059 | 1.035 | |
| FXCQ50 | TC | 0.663 | 0.690 | 0.753 | 0.777 | 0.795 | 0.831 | 0.857 | |
| | SHF | 1.177 | 1.185 | 1.123 | 1.097 | 1.081 | 1.054 | 1.034 | |
| FXCQ63 | TC | 0.682 | 0.692 | 0.740 | 0.763 | 0.784 | 0.815 | 0.840 | |
| | SHF | 1.144 | 1.191 | 1.138 | 1.111 | 1.088 | 1.061 | 1.042 | |
| FXCQ80 | TC | 0.707 | 0.689 | 0.752 | 0.776 | 0.795 | 0.830 | 0.856 | |
| | SHF | 1.166 | 1.187 | 1.124 | 1.098 | 1.080 | 1.055 | 1.035 | |
| FXCQ125 | TC | 0.683 | 0.691 | 0.753 | 0.776 | 0.796 | 0.831 | 0.855 | |
| | SHF | 1.132 | 1.180 | 1.121 | 1.096 | 1.077 | 1.054 | 1.043 | |

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NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - Примечания - NOTLAR

How to use this table - So verwenden Sie diese Tabelle - Πώς θα χρησιμοποιήσετε αυτό τον πίνακα - Cómo utilizar esta tabla - Utilisation de ce tableau - Come utilizzare questa tabella - Gebruik van deze tabel - Как пользоваться этой таблицей - Bu tablo nasıl kullanılır? :

- Capacity : Total capacity for High sensible mode = Total capacity for normal capacity table X TC ratio.
 Leistung: Gesamtleistung für hochfühlbaren Leistungsmodus = Gesamtleistung für normale Leistungstabelle x GL-Verhältnis.
 Απόδοση: Συνολική απόδοση για τη λειτουργία υψηλής ευαισθησίας = Συνολική απόδοση για τον πίνακα κανονικών αποδόσεων X αναλογία TC
 Capacidad: Capacidad total para el modo de alta sensibilidad = Capacidad total para la tabla de capacidad normal X relación TC.
 Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.
 Capacità: Capacità totale per modalità ad alta capacità sensibile = Capacità totale per tabella capacità normali X rapporto TC.
 Capaciteit: totale capaciteit in modus grote ("High") gevoeligheid = totale capaciteit uit de tabel met normale capaciteiten x TC-ratio.
 Производительность: Общая производительность для режима с высоким коэфф. оцутимого охлаждения = Общая производительность для нормального режима, таблица X коэфф. TC.
 Kapasite: Yüksek algı modu için toplam kapasite = Normal kapasite tablosundaki toplam kapasite değeri x TC oranı.
- Sensible capacity (SHF): SHF for High sensible mode = SHF for normal capacity table X SHF ratio .
 Fühlbare Leistung (SHF): SHF für hochfühlbaren Leistungsmodus = SHF für normale Leistungstabelle x SHF-Verhältnis.
 Αισθητή απόδοση (SHF): SHF για λειτουργία υψηλής ευαισθησίας = SHF για πίνακα κανονικών αποδόσεων X αναλογία SHF .

Capacidad sensible (FCS): SHF para el modo de alta sensibilidad = SHF para la tabla de capacidad normal X relación SHF.
 Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.
 Capacità sensibile (SHF): SHF per modalità ad alta capacità sensibile = SHF per tabella capacità normali X rapporto SHF.
 Gevoeligheidscapaciteit (WGF (warmtegevoelsfactor)– in het Engels "SHF"): WGF voor de modus grote ("High") gevoeligheid = WGF uit de tabel met normale capaciteiten x WGF-ratio.
 Оцутимая производительность (SHF): SHF для режима с высоким коэфф. оцутимого охлаждения = SHF для нормального режима, таблица X коэфф. SHF.
 Algılanabilir kapasite (SHF): Yüksek algı modu için SHF = Normal kapasite tablosundaki SHF değeri x SHF oranı.

- In case of SHF is bigger than 1 , SHF is "1"
 Für den Fall, dass SHF größer als 1 ist, wird SHF als "1" angenommen.
 Σε περίπτωση που το SHF είναι μεγαλύτερο από 1, το SHF είναι "1"
 En caso de que SHF sea superior a 1 , SHF equivale a "1"
 Si FCS est supérieur à 1, utilisez « 1 » pour FCS.
 Qualora il valore SHF sia maggiore di 1 , SHF è "1"
 Indien WGF groter is dan 1, neem dan "1" voor WGF.
 Если SHF больше 1, то SHF равен "1"
 SHF değeri 1'den büyükse, SHF değeri "1" kabul edilmelidir

6 Capacity tables

6 - 3 Capacity Correction Factor

FXCQ-A

| | | Capacity correction factor Te = 11°C | | | | | | | |
|---------|-----|--------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--|
| | | 14.0 °CWB 20.0 °CDB | 16.0 °CWB 23.0 °CDB | 18.0 °CWB 26.0 °CDB | 19.0 °CWB 27.0 °CDB | 20.0 °CWB 28.0 °CDB | 22.0 °CWB 30.0 °CDB | 24.0 °CWB 32.0 °CDB | |
| FXCQ20 | TC | 0.536 | 0.552 | 0.578 | 0.612 | 0.641 | 0.691 | 0.732 | |
| | SHF | 1.172 | 1.273 | 1.294 | 1.233 | 1.187 | 1.125 | 1.086 | |
| FXCQ25 | TC | 0.546 | 0.559 | 0.570 | 0.603 | 0.637 | 0.690 | 0.730 | |
| | SHF | 1.147 | 1.250 | 1.306 | 1.245 | 1.192 | 1.127 | 1.089 | |
| FXCQ32 | TC | 0.546 | 0.559 | 0.570 | 0.603 | 0.637 | 0.690 | 0.730 | |
| | SHF | 1.147 | 1.250 | 1.306 | 1.245 | 1.192 | 1.127 | 1.089 | |
| FXCQ40 | TC | 0.540 | 0.548 | 0.571 | 0.611 | 0.645 | 0.697 | 0.744 | |
| | SHF | 1.167 | 1.273 | 1.300 | 1.231 | 1.182 | 1.122 | 1.080 | |
| FXCQ50 | TC | 0.534 | 0.543 | 0.578 | 0.619 | 0.651 | 0.707 | 0.755 | |
| | SHF | 1.177 | 1.282 | 1.287 | 1.221 | 1.176 | 1.117 | 1.074 | |
| FXCQ63 | TC | 0.546 | 0.562 | 0.571 | 0.604 | 0.633 | 0.688 | 0.727 | |
| | SHF | 1.144 | 1.245 | 1.307 | 1.246 | 1.198 | 1.129 | 1.091 | |
| FXCQ80 | TC | 0.538 | 0.547 | 0.576 | 0.617 | 0.650 | 0.706 | 0.753 | |
| | SHF | 1.166 | 1.270 | 1.289 | 1.223 | 1.177 | 1.117 | 1.076 | |
| FXCQ125 | TC | 0.549 | 0.561 | 0.579 | 0.617 | 0.651 | 0.708 | 0.751 | |
| | SHF | 1.132 | 1.228 | 1.280 | 1.218 | 1.171 | 1.113 | 1.084 | |

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6

NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - Примечания - NOTLAR

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1. Capacity : Total capacity for High sensible mode = Total capacity for normal capacity table X TC ratio.

Leistung: Gesamtleistung für hochfühlbaren Leistungsmodus = Gesamtleistung für normale Leistungstabelle x GL-Verhältnis.

Απόδοση: Συνολική απόδοση για τη λειτουργία υψηλής ευαισθησίας = Συνολική απόδοση για τον πίνακα κανονικών αποδόσεων X αναλογία TC

Capacidad: Capacidad total para el modo de alta sensibilidad = Capacidad total para la tabla de capacidad normal X relación TC.

Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.

Capacità: Capacità totale per modalità ad alta capacità sensibile = Capacità totale per tabella capacità normali X rapporto TC.

Capaciteit: totale capaciteit in modus grote ("High") gevoeligheid = totale capaciteit uit de tabel met normale capaciteiten x TC-ratio.

Производительность: Общая производительность для режима с высоким коэфф. окуптумого охлаждения = Общая производительность для нормального режима, таблица X коэфф. TC.

Kapasite: Yüksek algı modu için toplam kapasite = Normal kapasite tablosundaki toplam kapasite değeri x TC oranı.

2. Sensible capacity (SHF): SHF for High sensible mode = SHF for normal capacity table X SHF ratio .

Fühbare Leistung (SHF): SHF für hochfühlbaren Leistungsmodus = SHF für normale Leistungstabelle x SHF-Verhältnis.

Αισθητή απόδοση (SHF): SHF για λειτουργία υψηλής ευαισθησίας = SHF για πίνακα κανονικών αποδόσεων X αναλογία SHF .

Capacidad sensible (FCS): SHF para el modo de alta sensibilidad = SHF para la tabla de capacidad normal X relación SHF.

Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.

Capacità sensibile (SHF): SHF per modalità ad alta capacità sensibile = SHF per tabella capacità normali X rapporto SHF.

Gevoeligheidscapaciteit (WGF (warmtegevoelsfactor)– in het Engels "SHF"): WGF voor de modus grote ("High") gevoeligheid = WGF uit de tabel met normale capaciteiten x WGF-ratio.

Ощутимая производительность (SHF): SHF для режима с высоким коэфф. окуптумого охлаждения = SHF для нормального режима, таблица X коэфф. SHF.

Algılanabilir kapasite (SHF): Yüksek algı modu için SHF = Normal kapasite tablosundaki SHF değeri x SHF oranı.

3. In case of SHF is bigger than 1 , SHF is "1"

Für den Fall, dass SHF größer als 1 ist, wird SHF als "1" angenommen.

Σε περίπτωση που το SHF είναι μεγαλύτερο από 1, το SHF είναι "1"

En caso de que SHF sea superior a 1 , SHF equivale a "1"

Si FCS est supérieur à 1 , utilisez « 1 » pour FCS.

Qualora il valore SHF sia maggiore di 1 , SHF è "1"

Indien WGF groter is dan 1, neem dan "1" voor WGF.

Если SHF больше 1, то SHF равен "1"

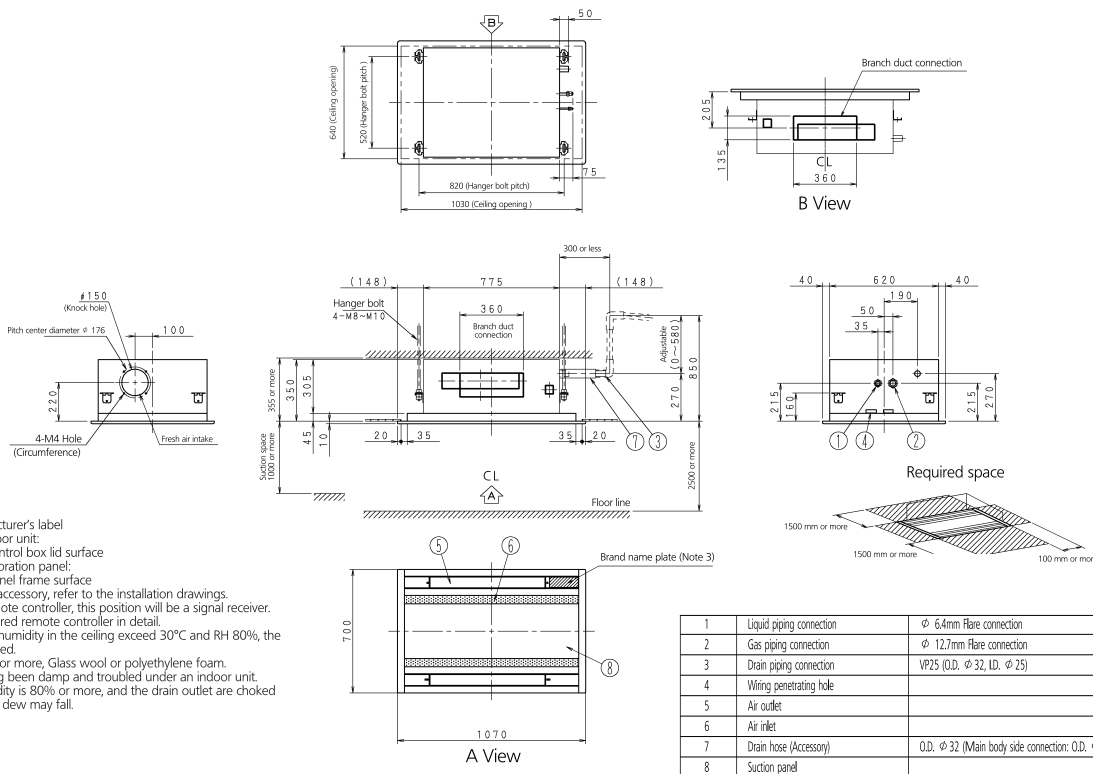
SHF değeri 1'den büyükse, SHF değeri "1" kabul edilmelidir

7 Dimensional drawings

7 - 1 Dimensional Drawings

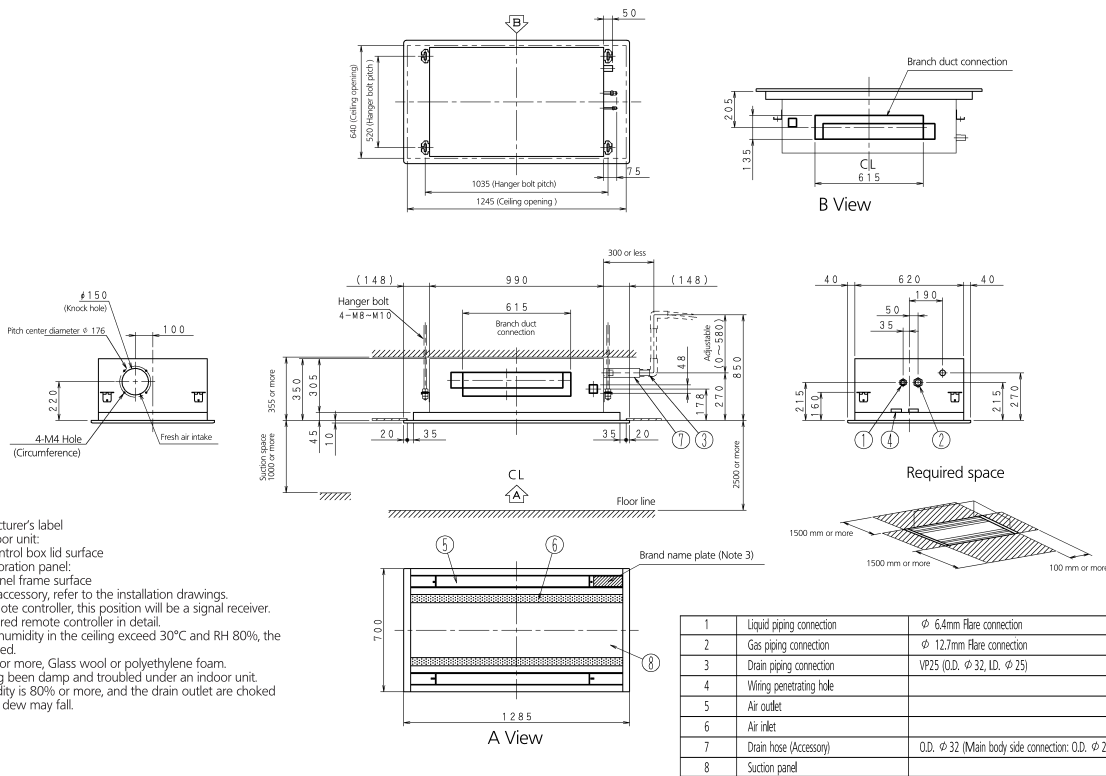
7

FXCQ20-40A



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FXCQ50A

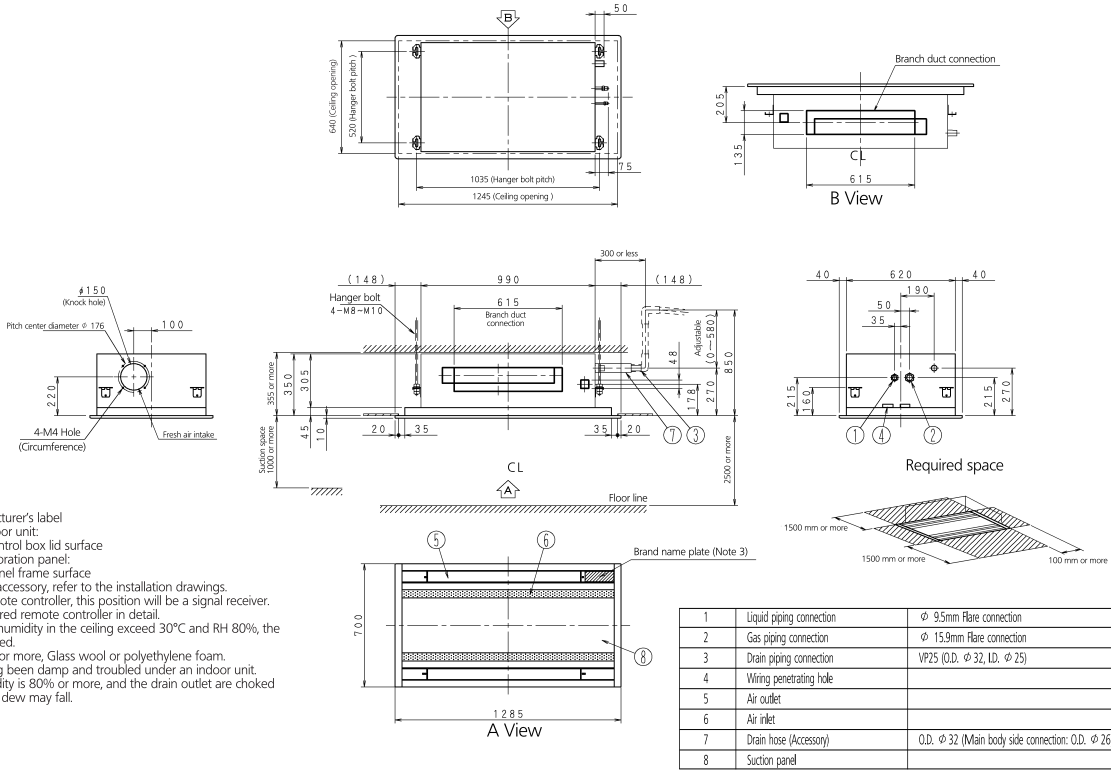


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7 Dimensional drawings

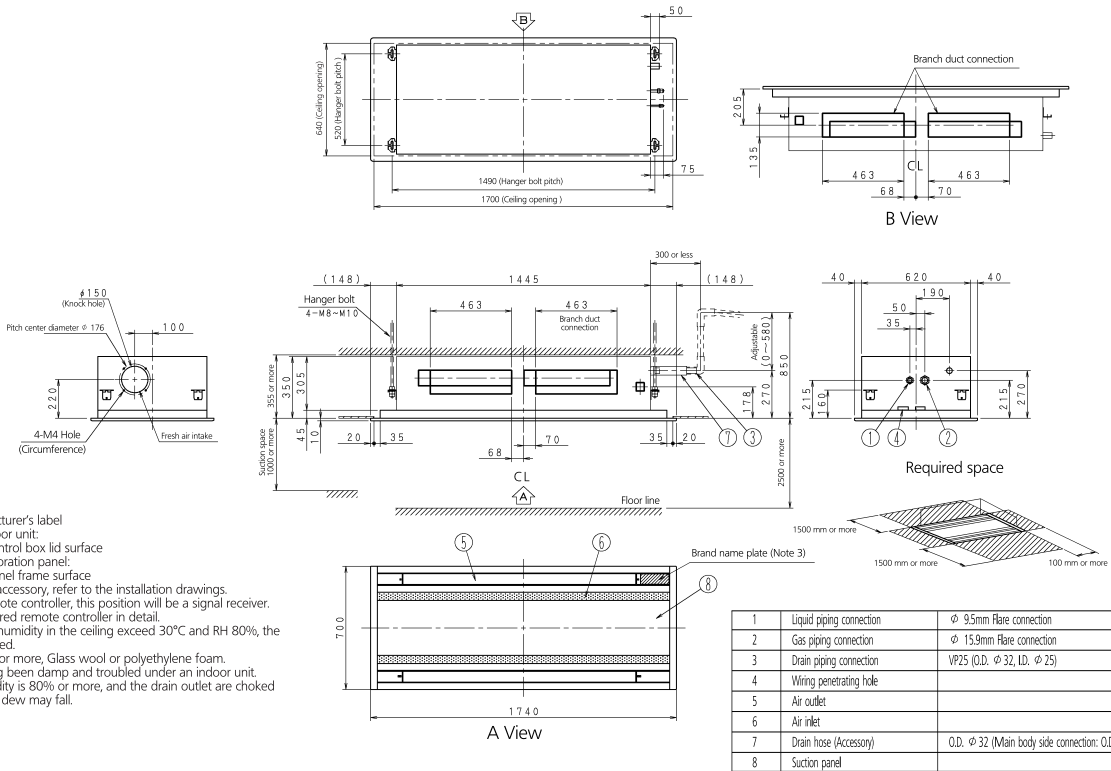
7 - 1 Dimensional Drawings

FXCQ63A



3D079630

FXCQ80-125A



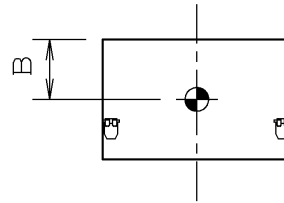
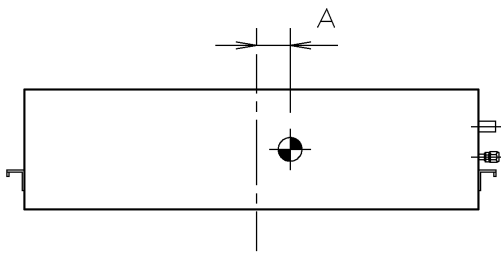
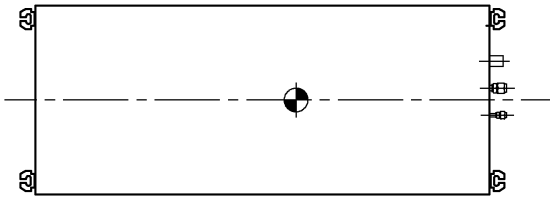
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8 Centre of gravity

8 - 1 Centre of Gravity

8

FXCQ-A



| Model | A | B |
|------------------|----|-----|
| FXCQ20•25•32•40A | 30 | 120 |
| FXCQ50•63A | 40 | 120 |
| FXCQ80•125A | 15 | 110 |

4D080138

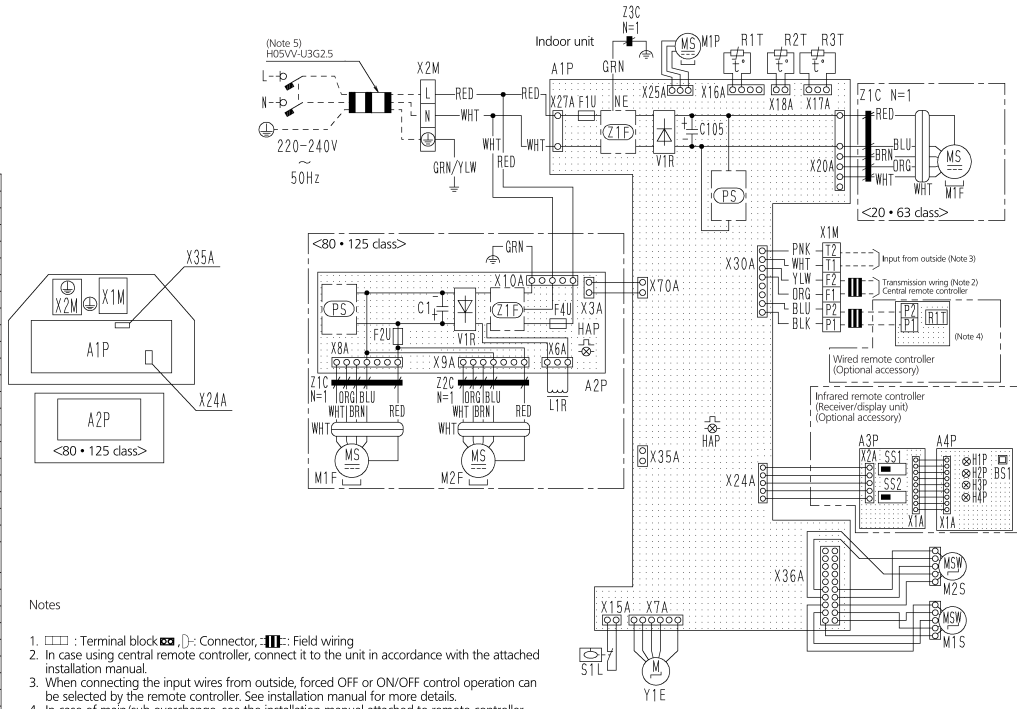
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

10

FXCQ-A

| Indoor unit | |
|--|---|
| A1P•A2P | Printed circuit board |
| C105•C1 | Capacitor |
| F1U | Fuse (T3.15A, 250V) |
| F2U | Fuse (T3.15A, 250V) |
| F4U | Fuse (T6.3A, 250V) |
| HAP | Flashing lamp (service monitor-green) (A1P/A2P) |
| L1R | Reactor |
| M1F•M2F | Motor (indoor fan) |
| M1P | Motor (drain pump) |
| M1S•M2S | Motor (swing blade) |
| PS | Power supply circuit (A1P/A2P) |
| R1T | Thermistor (air) |
| R2T•R3T | Thermistor (coil) |
| S1L | Heat switch |
| V1R | Diode bridge |
| X1M•X2M | Terminal block |
| Y1E | Electronic expansion valve |
| Z1C | Ferrite core |
| Z2C | Ferrite core |
| Z3C | Ferrite core |
| Z1F | Noise filter (A1P/A2P) |
| Infrared remote controller (Receiver/display unit) | |
| A3P•A4P | Printed circuit board |
| BS1 | Push button switch (ON/OFF) |
| H1P | Pilot lamp (on-red) |
| H2P | Pilot lamp (timer-green) |
| H3P | Pilot lamp (filter sign-red) |
| H4P | Pilot lamp (defrost-orange) |
| SS1 | Selector switch (main/sub) |
| SS2 | Selector switch (infrared address set) |
| Connector for optional parts | |
| X24A | Connector (Infrared remote controller) |
| X35A | Connector (Power supply for adapter) |



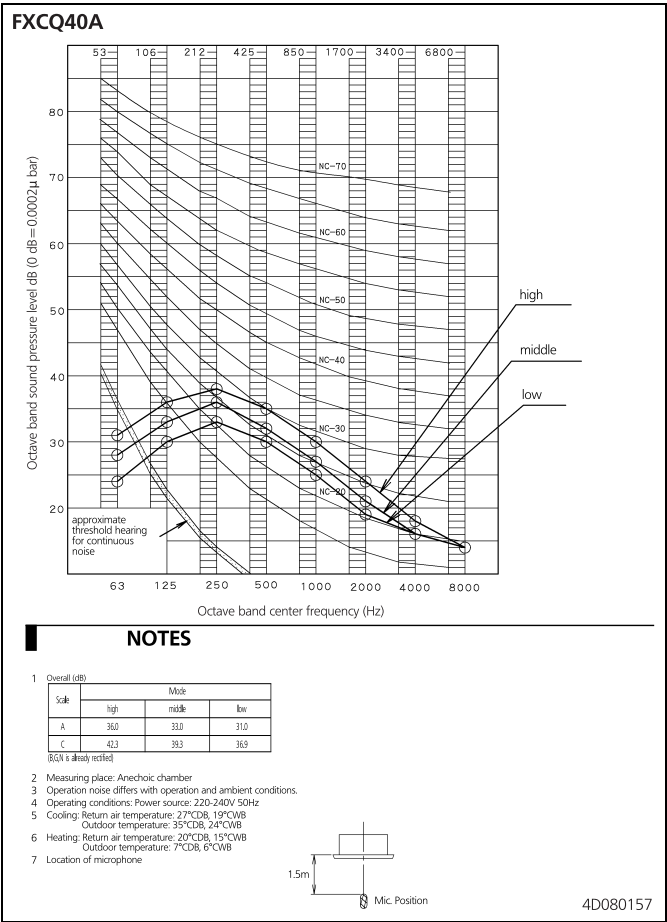
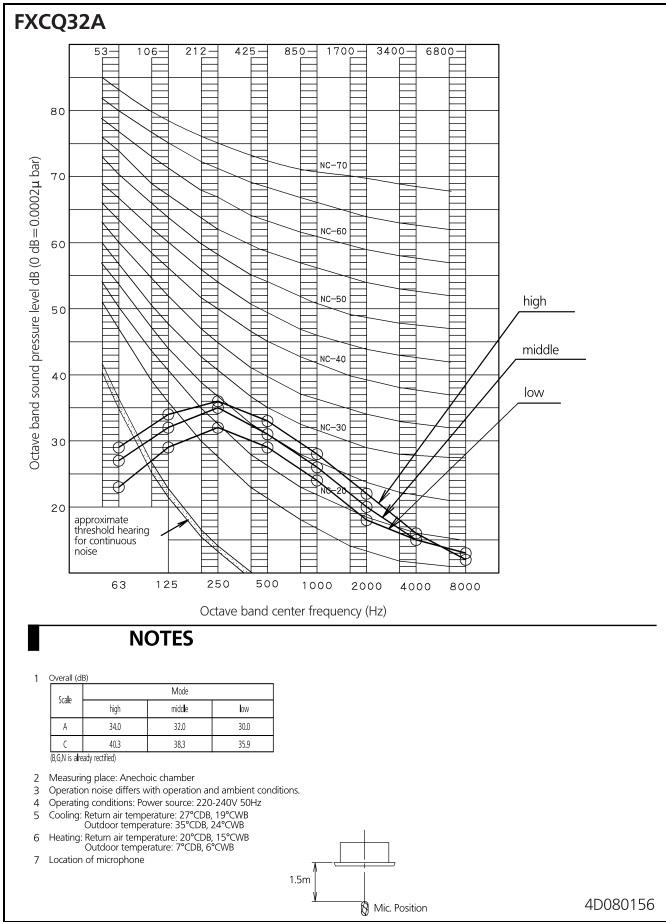
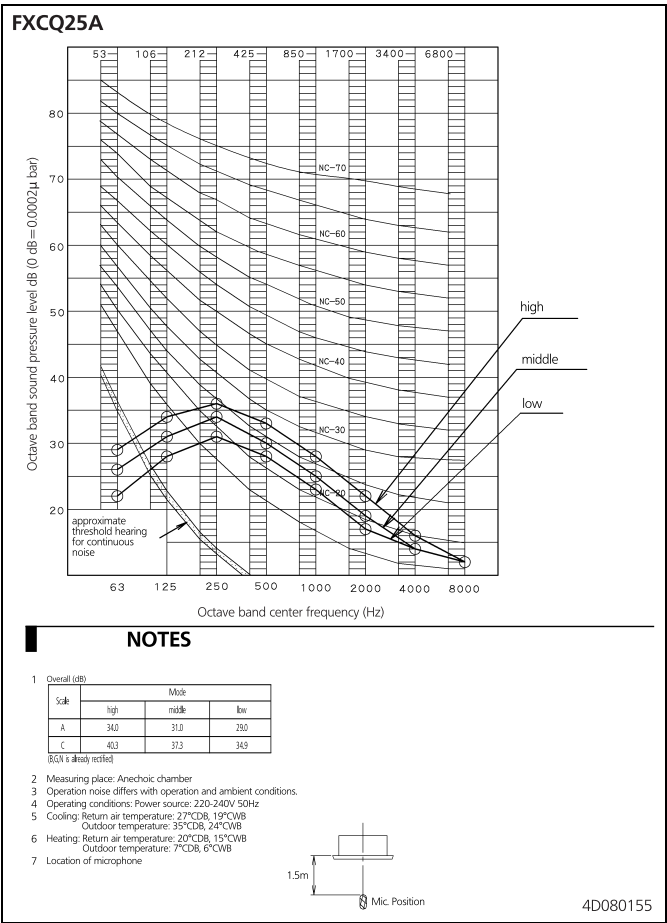
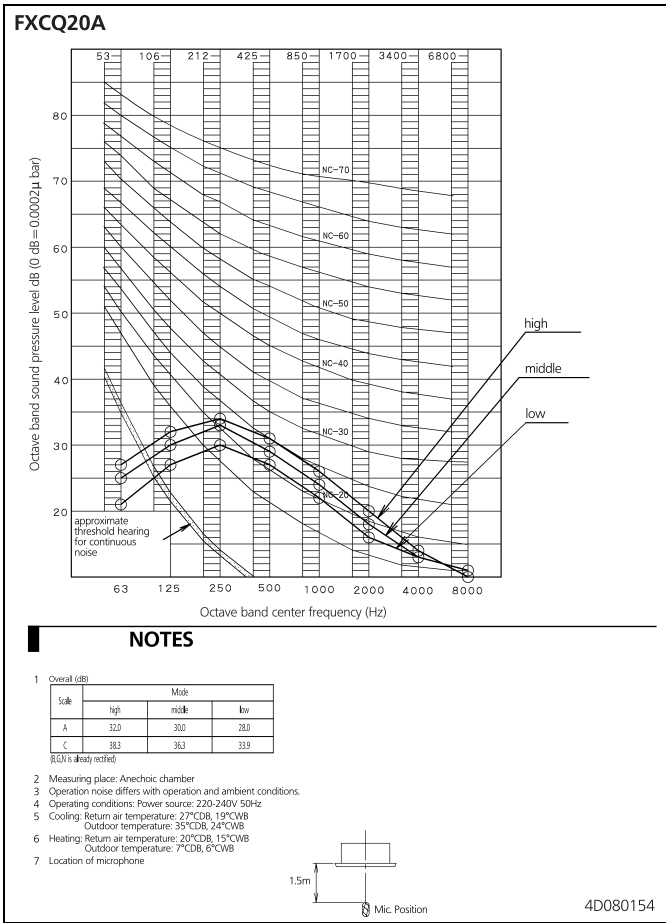
Notes

- Terminal block (□): Connector (⊞): Field wiring
- In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
- When connecting the input wires from outside, forced OFF or ON/OFF control operation can be selected by the remote controller. See installation manual for more details.
- In case of main/sub overcharge, see the installation manual attached to remote controller.
- Shows only in case of protected pipes, use HO7RN-F in case of no protection.
- Symbols show as follows: Red: BLK:Black: WHT:White: YLW:Yellow: GRN:Green: ORG:Orange: BRN:Brown: PNK:Pink: BLU:Blue.

3D079588

11 Sound data

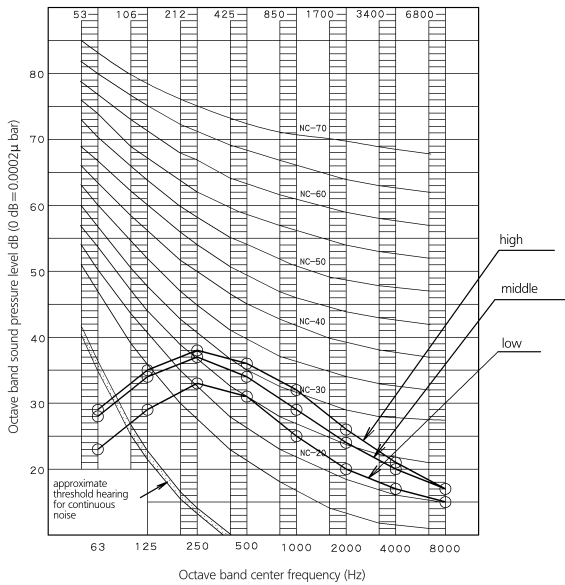
11 - 1 Sound Pressure Spectrum



11 Sound data

11 - 1 Sound Pressure Spectrum

FXCQ50A

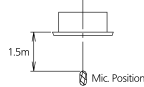


NOTES

- Overall (dB)

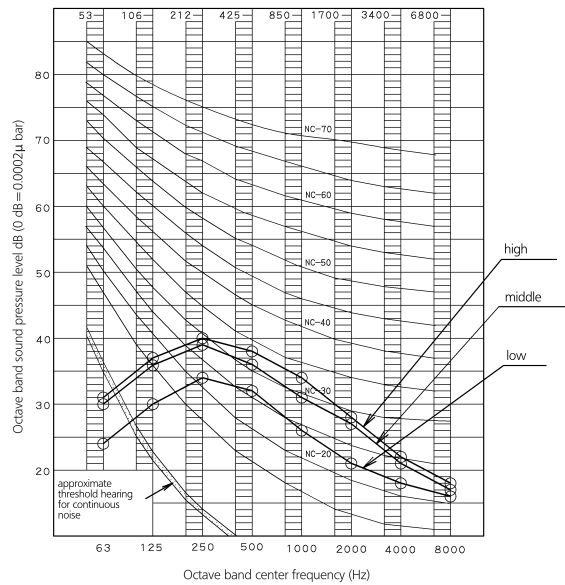
| Scale | Mode | | |
|-------|------|--------|------|
| | high | middle | low |
| A | 37.0 | 35.0 | 31.0 |
| C | 42.3 | 40.9 | 36.5 |

(dB) is already rectified
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz
- Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
- Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone



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FXCQ63A

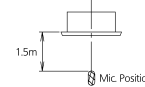


NOTES

- Overall (dB)

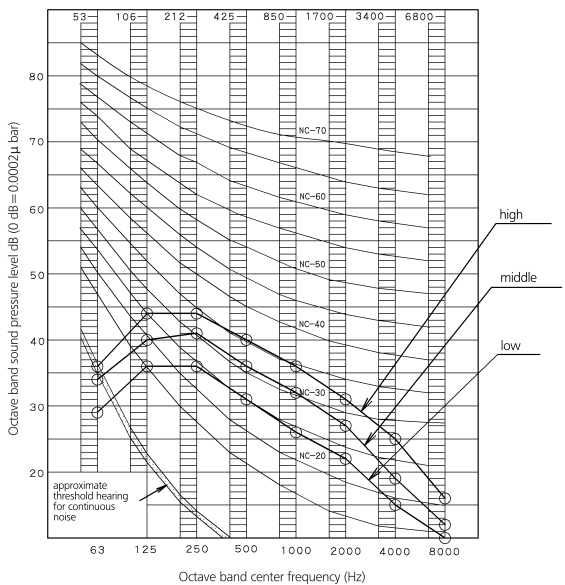
| Scale | Mode | | |
|-------|------|--------|------|
| | high | middle | low |
| A | 39.0 | 37.0 | 33.0 |
| C | 44.3 | 42.9 | 38.5 |

(dB) is already rectified
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz
- Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
- Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone



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FXCQ80A

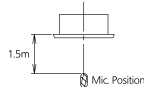


NOTES

- Overall (dB)

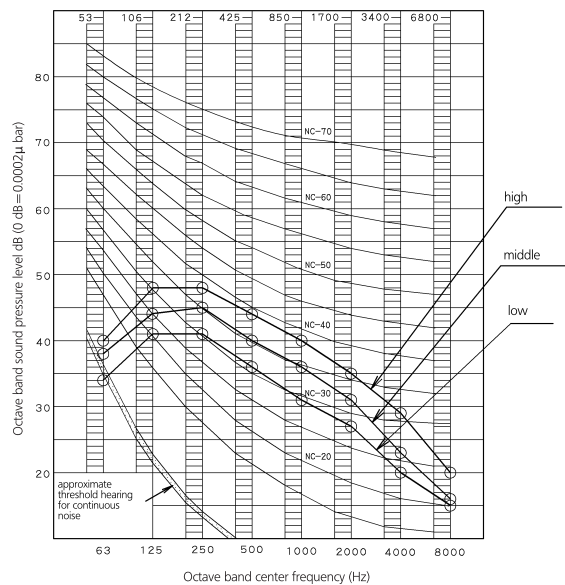
| Scale | Mode | | |
|-------|------|--------|------|
| | high | middle | low |
| A | 42.0 | 38.0 | 33.0 |
| C | 48.5 | 44.8 | 40.2 |

(dB) is already rectified
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz
- Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
- Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone



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FXCQ125A

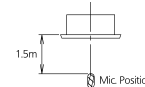


NOTES

- Overall (dB)

| Scale | Mode | | |
|-------|------|--------|------|
| | high | middle | low |
| A | 46.0 | 42.0 | 38.0 |
| C | 52.5 | 48.8 | 45.2 |

(dB) is already rectified
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz
- Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
- Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone



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In all of us,
a green heart

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



These products are not within the scope of the Eurovent certification program

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