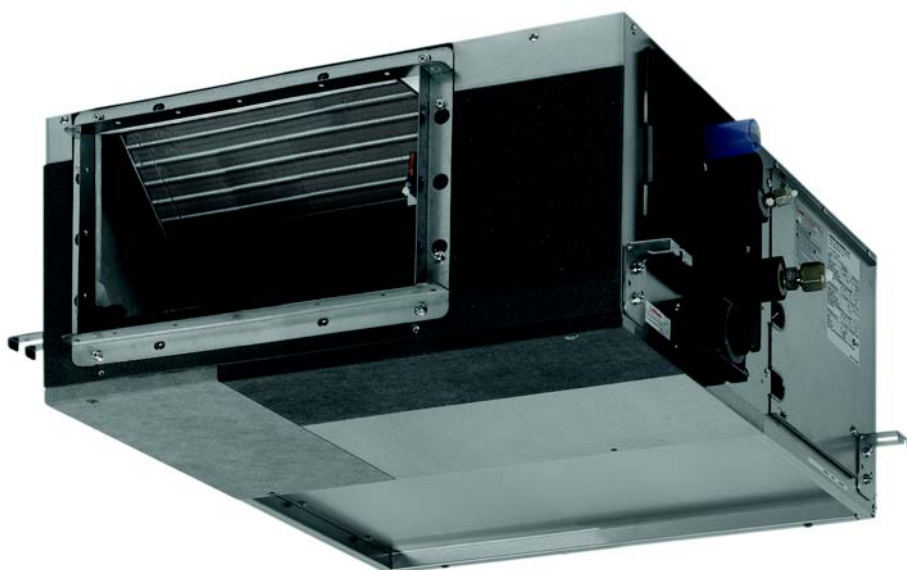




# Air Conditioning

# Technical Data

Concealed ceiling unit with inverter driven fan



EEDEN14-204

FXMQ-P7



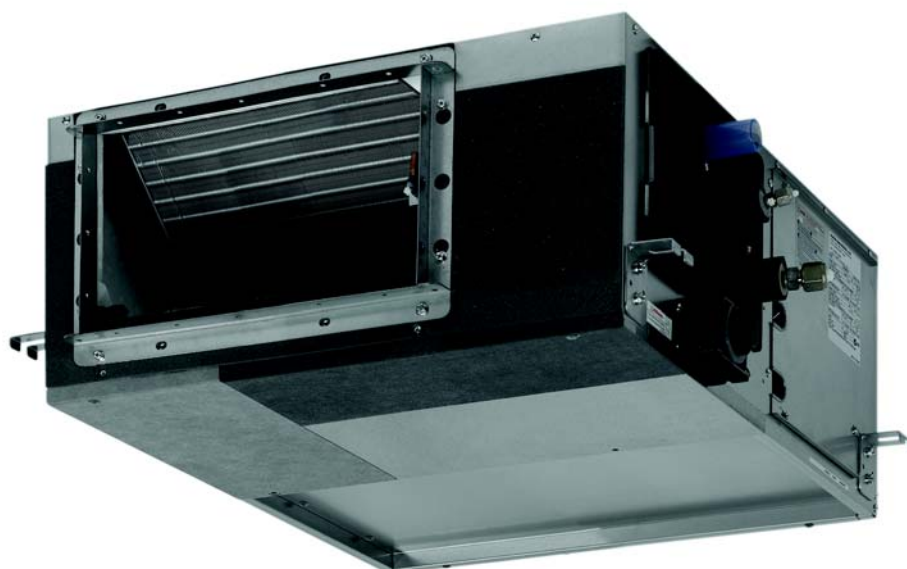
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## FXMQ-P7

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# 1 Features

- Easy installation thanks to automatic air flow adjustment towards nominal air flow rate
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Up to 200Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- Low energy consumption thanks to DC inverter fans
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- The air suction direction can be altered from rear to bottom suction
- Standard built-in drain pump increases reliability of the drain system



Inverter



Home leave operation



Fan only



Auto cooling-heating changeover



Fan speed steps



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Multi tenant



Drain pump kit

## 2 Specifications

| 2-1 Technical Specifications |                                 |           |      | FXMQ20P<br>7               | FXMQ25P<br>7 | FXMQ32P<br>7 | FXMQ40P<br>7   | FXMQ50P<br>7 | FXMQ63P<br>7 | FXMQ80P<br>7 | FXMQ100<br>P7 | FXMQ125<br>P7 |          |  |
|------------------------------|---------------------------------|-----------|------|----------------------------|--------------|--------------|----------------|--------------|--------------|--------------|---------------|---------------|----------|--|
| 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)       | 11.2 (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)      | 12.5 (2)      | 16.0 (2) |  |
| Power input - 50Hz           | Cooling                         | Nom.      | kW   | 0.049 (1)                  |              | 0.053 (1)    | 0.151 (1)      | 0.110 (1)    | 0.120 (1)    | 0.171 (1)    | 0.176 (1)     | 0.241 (1)     |          |  |
|                              | Heating                         | Nom.      | kW   | 0.037 (2)                  |              | 0.041 (2)    | 0.139 (2)      | 0.098 (2)    | 0.108 (2)    | 0.159 (2)    | 0.164 (2)     | 0.229 (2)     |          |  |
| Casing                       | Colour                          |           |      | Unpainted                  |              |              |                |              |              |              |               |               |          |  |
|                              | Material                        |           |      | Galvanised steel plate     |              |              |                |              |              |              |               |               |          |  |
| Dimensions                   | Unit                            | Height    | mm   | 300                        |              |              |                |              |              |              |               |               |          |  |
|                              |                                 | Width     | mm   | 550                        |              |              | 700            | 1,000        |              |              | 1,400         |               |          |  |
|                              |                                 | Depth     | mm   | 700                        |              |              |                |              |              |              |               |               |          |  |
|                              | Packed unit                     | Height    | mm   | 355                        |              |              |                |              |              |              |               |               |          |  |
|                              |                                 | Width     | mm   | 770                        |              |              | 920            | 1,220        |              |              | 1,620         |               |          |  |
|                              |                                 | Depth     | mm   | 900                        |              |              |                |              |              |              |               |               |          |  |
| Required ceiling void \>     |                                 |           | mm   | 350                        |              |              |                |              |              |              |               |               |          |  |
| Weight                       | Unit                            |           |      | kg                         | 23           |              |                | 26           | 35           |              |               | 46            |          |  |
|                              | Packed unit                     |           |      | kg                         | 28           |              |                | 32           | 42           |              |               | 54            |          |  |
| Decoration panel             | Model                           |           |      | BYBS32DJW1                 |              |              | BYBS45<br>DJW1 | BYBS71DJW1   |              |              | BYBS125DJW1   |               |          |  |
|                              | Colour                          |           |      | White (10Y9/0.5)           |              |              |                |              |              |              |               |               |          |  |
|                              | Dimensions                      | Height    | mm   | 55                         |              |              |                |              |              |              |               |               |          |  |
|                              |                                 | Width     | mm   | 650                        |              |              | 800            | 1,100        |              |              | 1,500         |               |          |  |
|                              |                                 | Depth     | mm   | 500                        |              |              |                |              |              |              |               |               |          |  |
|                              | Weight                          |           |      | kg                         | 3.0          |              |                | 3.5          | 4.5          |              |               | 6.5           |          |  |
| Heat exchanger               | Tube type                       |           |      | ø7 Hi-XSS                  |              |              |                |              |              |              |               |               |          |  |
|                              | Fin                             | Type      |      | Symmetric waffle louvre    |              |              |                |              |              |              |               |               |          |  |
|                              |                                 | Treatment |      | Hydrophilic                |              |              |                |              |              |              |               |               |          |  |
| Fan                          | Type                            |           |      | Sirocco fan                |              |              |                |              |              |              |               |               |          |  |
|                              | Quantity                        |           |      | 1                          |              |              |                | 2            |              |              | 3             |               |          |  |
|                              | Air flow rate - 50Hz            | Cooling   | High | m³/min                     | 9            | 9.5          | 16             | 18           | 19.5         | 25           | 32            | 39            |          |  |
|                              |                                 |           | Nom. | m³/min                     | 7.8          | 8.3          | 13.5           | 16.5         | 17.8         | 22.5         | 27.5          | 33.5          |          |  |
|                              |                                 |           | Low  | m³/min                     | 6.5          | 7            | 11             | 15           | 16           | 20           | 23            | 28            |          |  |
|                              |                                 | Heating   | High | m³/min                     | 9.0          | 9.5          | 16             | 18           | 19.5         | 25           | 32            | 39            |          |  |
|                              |                                 |           | Nom. | m³/min                     | 7.8          | 8.3          | 13.5           | 16.5         | 17.8         | 22.5         | 27.5          | 33.5          |          |  |
|                              |                                 |           | Low  | m³/min                     | 6.5          | 7            | 11             | 15           | 16           | 20           | 23            | 28            |          |  |
|                              | Air flow rate - 60Hz            | Cooling   | High | m³/min                     | 9            | 9.5          | 16             | 18           | 19.5         | 25           | 32            | 39            |          |  |
|                              |                                 |           | Nom. | m³/min                     | 7.8          | 8.3          | 13.5           | 16.5         | 17.8         | 22.5         | 27.5          | 33.5          |          |  |
|                              |                                 |           | Low  | m³/min                     | 6.5          | 7            | 11             | 15           | 16           | 20           | 23            | 28            |          |  |
|                              |                                 | Heating   | High | m³/min                     | 9            | 9.5          | 16             | 18           | 19.5         | 25           | 32            | 39            |          |  |
|                              |                                 |           | Nom. | m³/min                     | 7.8          | 8.3          | 13.5           | 16.5         | 17.8         | 22.5         | 27.5          | 33.5          |          |  |
|                              |                                 |           | Low  | m³/min                     | 6.5          | 7            | 11             | 15           | 16           | 20           | 23            | 28            |          |  |
|                              | External static pressure - 50Hz | High      | Pa   | 100                        |              |              | 160            | 200          |              |              |               |               |          |  |
|                              |                                 | Nom.      | Pa   | 50                         |              |              | 100            |              |              |              |               |               |          |  |
|                              | External static pressure - 60Hz | High      | Pa   | 100                        |              |              | 160            | 200          |              |              |               |               |          |  |
| Nom.                         |                                 | Pa        | 50   |                            |              | 100          |                |              |              |              |               |               |          |  |
| Fan motor                    | Quantity                        |           |      | 1                          |              |              |                |              |              |              |               |               |          |  |
|                              | Model                           |           |      | Brushless DC motor         |              |              |                |              |              |              |               |               |          |  |
|                              | Speed                           | Steps     |      | 7                          |              |              | 13             | 14           |              |              |               |               |          |  |
|                              | Output                          | High      | W    | 90                         |              |              | 140            | 350          |              |              |               |               |          |  |
|                              | Drive                           |           |      | Direct drive               |              |              |                |              |              |              |               |               |          |  |
| Sound power level            | Cooling                         | High      | dBA  | 56                         | 57           | 65           | 61             | 64           | 67           | 65           | 70            |               |          |  |
| Sound pressure level         | Cooling                         | High      | dBA  | 33                         | 34           | 39           | 41             | 42           | 43           |              | 44            |               |          |  |
|                              |                                 | Nom.      | dBA  | 31                         | 32           | 37           | 39             | 40           | 41           |              | 42            |               |          |  |
|                              |                                 | Low       | dBA  | 29                         | 30           | 35           | 37             | 38           | 39           |              | 40            |               |          |  |
|                              | Heating                         | High      | dBA  | 33                         | 34           | 39           | 41             | 42           | 43           |              | 44            |               |          |  |
|                              |                                 | Nom.      | dBA  | 31                         | 32           | 37           | 39             | 40           | 41           |              | 42            |               |          |  |
|                              |                                 | Low       | dBA  | 29                         | 30           | 35           | 37             | 38           | 39           |              | 40            |               |          |  |
| Refrigerant                  | Type                            |           |      | R-410A                     |              |              |                |              |              |              |               |               |          |  |
|                              | Control                         |           |      | Electronic expansion valve |              |              |                |              |              |              |               |               |          |  |

## 2 Specifications

| 2-1 Technical Specifications |                 |      |    | FXMQ20P<br>7                   | FXMQ25P<br>7 | FXMQ32P<br>7 | FXMQ40P<br>7 | FXMQ50P<br>7 | FXMQ63P<br>7 | FXMQ80P<br>7 | FXMQ100<br>P7 | FXMQ125<br>P7 |
|------------------------------|-----------------|------|----|--------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| Piping connections           | Liquid          | Type |    | Flare connection               |              |              |              |              |              |              |               |               |
|                              |                 | OD   | mm | 6.35                           |              |              |              |              |              | 9.52         |               |               |
|                              | Gas             | Type |    | Flare connection               |              |              |              |              |              |              |               |               |
|                              |                 | OD   | mm | 12.7                           |              |              |              |              |              | 15.9         |               |               |
|                              | Drain           |      |    | VP25 (I.D. 25/O.D. 32)         |              |              |              |              |              |              |               |               |
|                              | Heat insulation |      |    | Both liquid and gas pipes      |              |              |              |              |              |              |               |               |
| Air filter                   | Type            |      |    | Resin net with mold resistance |              |              |              |              |              |              |               |               |
| Drain-up height              |                 |      | mm | 625                            |              |              |              |              |              |              |               |               |
| Safety devices               | Item            | 01   |    | PC board fuse                  |              |              |              |              |              |              |               |               |
|                              |                 | 02   |    | PC board fuse (fan driver)     |              |              |              |              |              |              |               |               |
|                              |                 | 03   |    | Drain pump fuse                |              |              |              |              |              |              |               |               |

| 2-2 Electrical Specifications |                            |  |    | FXMQ20P<br>7 | FXMQ25P<br>7 | FXMQ32P<br>7 | FXMQ40P<br>7 | FXMQ50P<br>7 | FXMQ63P<br>7 | FXMQ80P<br>7 | FXMQ100<br>P7 | FXMQ125<br>P7 |
|-------------------------------|----------------------------|--|----|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| Power supply                  | Name                       |  |    | VE           |              |              |              |              |              |              |               |               |
|                               | Phase                      |  |    | 1~           |              |              |              |              |              |              |               |               |
|                               | Frequency                  |  | Hz | 50/60        |              |              |              |              |              |              |               |               |
|                               | Voltage                    |  | V  | 220-240/220  |              |              |              |              |              |              |               |               |
| Voltage range                 | Min.                       |  | %  | -10          |              |              |              |              |              |              |               |               |
|                               | Max.                       |  | %  | 10           |              |              |              |              |              |              |               |               |
| Current - 50Hz                | Minimum circuit amps (MCA) |  | A  | 0.6          |              |              | 1.6          | 1.4          |              | 1.7          | 2.3           | 2.9           |
|                               | Maximum fuse amps (MFA)    |  | A  | 16           |              |              |              |              |              |              |               |               |
| Current - 60Hz                | Minimum circuit amps (MCA) |  | A  | 0.6          |              |              | 1.6          | 1.4          |              | 1.7          | 2.3           | 2.9           |
|                               | Maximum fuse amps (MFA)    |  | A  | 16           |              |              |              |              |              |              |               |               |

### Notes

- (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) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- (4) The sound pressure values are mentioned for a unit installed with rear suction.
- (5) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- (6) Maximum allowable voltage range variation between phases is 2%.
- (7) Select wire size based on the value of MCA
- (8) Use a circuit breaker instead of a fuse.

## 3 Electrical data

### 3 - 1 Electrical Data

#### FXMQ-P7

| Units     |      |       |                   |      |      | Power supply |     |
|-----------|------|-------|-------------------|------|------|--------------|-----|
| Model     | Type | Hz    | Voltage range     | Min. | Max. | MCA          | MFA |
| FXMQ20P7  | VE   | 50/60 | 220~240V/<br>220V | -10% | +10% | 0.6          | 16  |
| FXMQ25P7  |      |       |                   |      |      | 0.6          | 16  |
| FXMQ32P7  |      |       |                   |      |      | 0.6          | 16  |
| FXMQ40P7  |      |       |                   |      |      | 1.6          | 16  |
| FXMQ50P7  |      |       |                   |      |      | 1.4          | 16  |
| FXMQ63P7  |      |       |                   |      |      | 1.4          | 16  |
| FXMQ80P7  |      |       |                   |      |      | 1.7          | 16  |
| FXMQ100P7 |      |       |                   |      |      | 2.3          | 16  |
| FXMQ125P7 |      |       |                   |      |      | 2.9          | 16  |

#### SYMBOLS

MCA : Min. Circuit Amps. (A)  
MFA : Max. Fuse Amps. (A) (See note 4)

#### NOTES

- 1 Voltage range  
Units are suitable for use on electrical systems where the voltage supplied to the unit terminals is not below or above the listed range limits.
- 2 Maximum allowable voltage unbalance between phases is 2%.
- 3 Select wire size based on the MCA.
- 4 Instead of fuse, use circuit breaker.

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## 4 Safety device settings

### 4 - 1 Safety Device Settings

#### FXMQ-P7

|      | Safety devices              | 20         | 25         | 32         | 40         | 50         | 63         | 80         | 100        | 125        |
|------|-----------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| FXMQ | PC board fuse               | 250V 3,15A | 250V 3,15A | 250V 3,15A | 250V 3,15A | 250V 3,15A | 250V 3,15A | 250V 3,15A | 250V 3,15A | 250V 3,15A |
|      | PC board fuse (fan driver)  | 250V 5A    | 250V 5A    | 250V 5A    | 250V 5A    | 250V 6,3A  | 250V 6,3A  | 250V 6,3A  | 250V 6,3A  | 250V 6,3A  |
|      | Fan motor thermal protector | °C         | -          | -          | -          | -          | -          | -          | -          | -          |
|      | Drain pump fuse             | °C         | 145        | 145        | 145        | 145        | 145        | 145        | 145        | 145        |

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## 5 Options

### 5 - 1 Options

#### FXMQ-P7

#### OPTIONS

| Item                                       |                                      | Type | FXMQ20,25,32 | FXMQ40     | FXMQ50.63.80 | FXMQ100.125 |
|--------------------------------------------|--------------------------------------|------|--------------|------------|--------------|-------------|
| Panel related                              | Decoration panel (*5)                |      | BYBS32D      | BYBS45D    | BYBS71D      | BYBS125D    |
| Air inlet and air discharge outlet related | Air discharge adapter for round duct |      | KDAJ25K36A   | KDAJ25K56A | KDAJ25K71A   | KDAJ25K140A |
| Panel related                              | Decoration panel option              |      | EKBYBSD      |            |              |             |

#### OPERATION CONTROL

| Item                                                                                 |               |  | Type | FXMQ20,25,32                                                           | FXMQ40  | FXMQ50.63.80 | FXMQ100.125 |
|--------------------------------------------------------------------------------------|---------------|--|------|------------------------------------------------------------------------|---------|--------------|-------------|
| Remote control                                                                       | Wired type    |  |      | BRC1D52 / BRC1E51A (*7) / BRC1C62 (*6) / BRC1E52A (*8) / BRC1E52B (*9) |         |              |             |
|                                                                                      | Infrared type |  | HP   | BRC4C65                                                                |         |              |             |
|                                                                                      |               |  |      | CO                                                                     | BRC4C66 |              |             |
| Simplified remote control                                                            |               |  |      | BRC2C51                                                                |         |              |             |
| Remote control for hotel use                                                         |               |  |      | BRC3A61                                                                |         |              |             |
| Option PCB for external el. heater, humidifier and/or hour meter (*1) (*2) (*3) (*4) |               |  |      | EKRP1B2A                                                               |         |              |             |
| Adapter for wiring (interlock for fresh air intake fan) (*4)                         |               |  |      | KRP1C64                                                                |         |              |             |
| Wiring adapter for electrical appendices (*1) (*2) (*4)                              |               |  |      | KRP2A51                                                                |         |              |             |
| Wiring adapter for electrical appendices (*2) (*4)                                   |               |  |      | KRP4A51                                                                |         |              |             |
| Remote sensor                                                                        |               |  |      | KRCS01-4B                                                              |         |              |             |
| Central remote control                                                               |               |  |      | DCS302C51 / DCS302CA61 (*6)                                            |         |              |             |
| Residential remote control                                                           |               |  |      | DCS303A51 (*6) (*10)                                                   |         |              |             |
| Electrical box with earth terminal (3 blocks)                                        |               |  |      | KJB311A                                                                |         |              |             |
| Unified ON/OFF controller                                                            |               |  |      | DCS301B51 / DCS301BA61 (*6)                                            |         |              |             |
| Electrical box with earth terminal (2 blocks)                                        |               |  |      | KJB212A                                                                |         |              |             |
| Schedule timer                                                                       |               |  |      | DST301B51 / DST301BA61 (*6)                                            |         |              |             |
| External adapter for outdoor unit (installation on indoor unit) (*4)                 |               |  |      | DTA104A61                                                              |         |              |             |
| PCB for multi tenant (*4)                                                            |               |  |      | DTA114A61                                                              |         |              |             |
| Mounting plate for adapter PCB                                                       |               |  |      | KRP4A96                                                                |         |              |             |

#### CONTENTS OF ACCESSORY BAG

| Description                       | Quantity                      |
|-----------------------------------|-------------------------------|
|                                   | FXMQ20,25,40,50,63,80,100,125 |
| Hexagon tapping screw (M5x16)     | 16                            |
| Round plain washer for wood       | 8                             |
| Installation and operation manual | 1                             |
| Hose band                         | 1                             |
| Insulation for joint (GAS)        | 1                             |
| Insulation for joint (LIQUID)     | 1                             |
| Drain hose                        | 1                             |
| Drain hose sealing material       | 1                             |
| Sealing material                  | 2                             |

3TW32659-3A

#### NOTES

- Electrical heater and humidifier are field supply. These parts should not be installed inside the equipment (refer to installation manual EKR1B2A)
- If installing an electrical heater, and option PCB for external heater (EKRP1B52) for each indoor unit is required.
- An electrical heater can not be used for VRV system cooling only.
- Mounting plate KRP4A96 is required for these options. Maximum 2 option PCB's can be mounted.
- Decoration panel option EKBYBSD is required for direct mounting of the decoration panel on the unit.
- BRC1C62, DCS302CA61, DCS301BA61 and DST301BA61 only for the Middle East region.
- Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian and Turkish.
- Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian, Turkish and Polish.
- Included languages are: English, German, Albanian, Bulgarian, Croatian, Czech, Hungarian, Romanian, Serbian, Slovak and Slovenian.
- For residential use only. Cannot be used with other centralised control equipment.

## 6 Capacity tables

### 6 - 1 Cooling Capacity Tables

#### FXMQ-P7

#### 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 |     |
|           | 20.0 °CDB        |     | 23.0 °CDB |     | 26.0 °CDB |      | 27.0 °CDB |      | 28.0 °CDB |      | 30.0 °CDB |      | 32.0 °CDB |     |
|           | TC               | SHC | TC        | SHC | TC        | SHC  | TC        | SHC  | TC        | SHC  | TC        | SHC  | TC        | SHC |
| 20        | 1.5              | 1.5 | 1.8       | 1.8 | 2.1       | 1.9  | 2.2       | 1.9  | 2.2       | 1.9  | 2.3       | 1.8  | 2.3       | 1.8 |
| 25        | 1.9              | 1.8 | 2.3       | 2.0 | 2.6       | 2.3  | 2.8       | 2.3  | 2.8       | 2.2  | 2.9       | 2.1  | 3.0       | 2.2 |
| 32        | 2.4              | 2.1 | 2.9       | 2.4 | 3.4       | 2.8  | 3.6       | 2.8  | 3.6       | 2.7  | 3.7       | 2.7  | 3.8       | 2.6 |
| 40        | 3.0              | 2.9 | 3.6       | 3.4 | 4.2       | 3.8  | 4.5       | 3.8  | 4.6       | 3.7  | 4.7       | 3.5  | 4.8       | 3.6 |
| 50        | 3.8              | 3.6 | 4.5       | 4.1 | 5.2       | 4.5  | 5.6       | 4.6  | 5.7       | 4.5  | 5.8       | 4.3  | 5.9       | 4.3 |
| 63        | 4.8              | 4.2 | 5.7       | 4.9 | 6.6       | 5.4  | 7.1       | 5.5  | 7.2       | 5.4  | 7.4       | 5.3  | 7.5       | 5.2 |
| 80        | 6.1              | 5.3 | 7.2       | 6.1 | 8.4       | 6.9  | 9.0       | 7.0  | 9.1       | 6.9  | 9.3       | 6.6  | 9.5       | 6.6 |
| 100       | 7.6              | 6.4 | 9.0       | 7.3 | 10.5      | 8.3  | 11.2      | 8.5  | 11.3      | 8.4  | 11.6      | 8.1  | 11.9      | 7.8 |
| 125       | 9.4              | 8.0 | 11.3      | 9.2 | 13.1      | 10.3 | 14.0      | 10.5 | 14.2      | 10.4 | 14.5      | 10.1 | 14.9      | 9.7 |

3TW32682-1B

#### 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 binnenunit.
  - 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 binnenunit 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 seçimiinden sonra tasarım gerekleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipman için gerçek çalışma kapasitesi tablodaki 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

#### FXMQ-P7

#### 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  |
| 100       | 13.1                  | 13.1 | 12.5 | 12.1 | 11.7 | 10.9 |
| 125       | 16.8                  | 16.8 | 16.0 | 15.5 | 15.0 | 13.9 |

3TW25512-2B

#### 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 binnenunit.
  - 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 binnenunit 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 sonra tasarım gerekleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipman için gerçek çalışma kapasitesi tablodaki 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

#### FXMQ-P7

|           |                        | Capacity correction factor Te = 9°C |           |           |           |           |           |           |
|-----------|------------------------|-------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|           | Indoor air temperature | 14.0 °CWB                           | 16.0 °CWB | 18.0 °CWB | 19.0 °CWB | 20.0 °CWB | 22.0 °CWB | 24.0 °CWB |
|           |                        | 20.0 °CDB                           | 23.0 °CDB | 26.0 °CDB | 27.0 °CDB | 28.0 °CDB | 30.0 °CDB | 32.0 °CDB |
| FXDQ20P7  | TC                     | 0.684                               | 0.705     | 0.764     | 0.790     | 0.812     | 0.837     | 0.859     |
|           | SHF                    | 1.130                               | 1.159     | 1.107     | 1.084     | 1.067     | 1.051     | 1.054     |
| FXDQ25P7  | TC                     | 0.684                               | 0.705     | 0.764     | 0.790     | 0.812     | 0.837     | 0.859     |
|           | SHF                    | 1.130                               | 1.159     | 1.107     | 1.084     | 1.067     | 1.051     | 1.054     |
| FXDQ32P7  | TC                     | 0.686                               | 0.706     | 0.766     | 0.792     | 0.814     | 0.837     | 0.859     |
|           | SHF                    | 1.126                               | 1.159     | 1.106     | 1.083     | 1.066     | 1.051     | 1.054     |
| FXDQ40P7  | TC                     | 0.689                               | 0.714     | 0.781     | 0.801     | 0.816     | 0.840     | 0.863     |
|           | SHF                    | 1.124                               | 1.151     | 1.098     | 1.080     | 1.067     | 1.051     | 1.050     |
| FXDQ50P7  | TC                     | 0.674                               | 0.707     | 0.766     | 0.788     | 0.808     | 0.838     | 0.861     |
|           | SHF                    | 1.150                               | 1.157     | 1.106     | 1.084     | 1.069     | 1.054     | 1.049     |
| FXDQ63P7  | TC                     | 0.677                               | 0.708     | 0.766     | 0.791     | 0.811     | 0.838     | 0.861     |
|           | SHF                    | 1.145                               | 1.157     | 1.105     | 1.083     | 1.068     | 1.054     | 1.051     |
| FXDQ80P7  | TC                     | 0.686                               | 0.710     | 0.775     | 0.799     | 0.815     | 0.839     | 0.861     |
|           | SHF                    | 1.128                               | 1.154     | 1.101     | 1.080     | 1.067     | 1.050     | 1.052     |
| FXDQ100P7 | TC                     | 0.679                               | 0.707     | 0.766     | 0.792     | 0.812     | 0.838     | 0.861     |
|           | SHF                    | 1.140                               | 1.157     | 1.106     | 1.083     | 1.067     | 1.053     | 1.054     |
| FXDQ125P7 | TC                     | 0.687                               | 0.709     | 0.773     | 0.799     | 0.815     | 0.838     | 0.861     |
|           | SHF                    | 1.126                               | 1.155     | 1.102     | 1.080     | 1.067     | 1.051     | 1.052     |

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

How to use this table:

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

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

When selecting units for mixed (RA DX indoor units + VRV DX indoor unit),

- Correction C<sub>i</sub> corresponds with Te = 9°C TC ratio value for each type of Indoor unit, depending on indoor ambient design temperature X/Y °CDB/°CWB
- Correction C<sub>i</sub> corresponds with Te = 9°C TC ratio value for each type of indoor unit, depending on indoor ambient temperature 29/19 °CDB/°CWB

So verwenden Sie diese Tabelle:

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

SHF: SHF für hochfühlbaren Leistungsmodus = SHF für normale Leistungstabelle x SHF-Verhältnis.

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

Bei Auswahl gemischter Geräte (RA DX-Innengerät + VRV DX-Innengerät),

- Korrektur C<sub>i</sub> entspricht dem GL-Verhältniswert für Te = 9 °C für jeden Innengerätetyp, in Abhängigkeit von der Innen-Entwurfstemperatur X/Y °C TK/°C FK
- Korrektur C<sub>i</sub> entspricht dem GL-Verhältniswert für Te = 9 °C für jeden Innengerätetyp, in Abhängigkeit von der Innentemperatur 29/19 °C TK/°C FK

Πως θα χρησιμοποιήσετε αυτό τον πίνακα:

Απόδοση: Συνολική απόδοση για λειτουργία υψηλής ευαισθησίας = Συνολική απόδοση για λόγο X TC πίνακα κανονικής απόδοσης.

SHF: SHF για λειτουργία υψηλής ευαισθησίας = SHF για λόγο X SHF πίνακα κανονικής απόδοσης.

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

Κατά την επιλογή μονάδων για συνδυασμό (εσωτερικές μονάδες RA DX + εσωτερική μονάδα VRV DX),

- Το C<sub>i</sub> διόρθωσης αντιστοιχεί σε Te = 9°C TC τιμή λόγου για κάθε τύπο εσωτερικής μονάδας, ανάλογα με την εσωτερική θερμοκρασία σχεδίου περιβάλλοντος X/Y °CDB/°CWB
- Το C<sub>i</sub> διόρθωσης αντιστοιχεί σε Te = 9°C TC τιμή λόγου για κάθε τύπο εσωτερικής μονάδας, ανάλογα με την εσωτερική θερμοκρασία περιβάλλοντος 29/19 °CDB/°CWB

Cómo utilizar esta tabla:

Capacidad: capacidad total para el modo sensible alto = capacidad total para relación TC de tabla X de capacidad normal.

SHF: SHF para modo sensible alto = SHF para relación SHF de tabla X de capacidad normal.

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

Si se seleccionan unidades combinadas (Unidades interiores DX RA + unidades interiores DX VRV),

- La corrección C<sub>i</sub> corresponde a Te = 9°C valor de relación TC para cada tipo de unidad interior, en función de la temperatura de diseño ambiente interior X/Y °CDB/°CBH
- La corrección C<sub>i</sub> corresponde a Te = 9°C valor de relación TC para cada tipo de unidad interior, en función de la temperatura ambiente interior 29/19 °CDB/°CBH

Comment utiliser ce tableau :

Puissance : Puissance totale pour le mode haute sensibilité = Puissance totale indiquée dans le tableau de puissance normale X rapport PT.

FCS : FCS pour le mode haute sensibilité =

FCS indiqué dans le tableau de puissance normale X rapport FCS.

Si le FCS est supérieur à 1, le FCS correspond à « 1 »

Lors de la sélection d'unités pour une installation mixte (unités intérieures DX RA + unité intérieure DX VRV),

- La correction C<sub>i</sub> correspond à Te = 9 °C / valeur de rapport PT pour chaque type d'unité intérieure, pour une température ambiante intérieure de calcul de X/Y °CDB/°CBH
- La correction C<sub>i</sub> correspond à Te = 9 °C / valeur de rapport PT pour chaque type d'unité intérieure, pour une température ambiante intérieure de 29/19 °CDB/°CBH

Come utilizzare questa tabella

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

SHF: SHF per modalità ad alta capacità sensibile = SHF per tabella capacità normali X rapporto SHF. Qualora il valore SHF sia maggiore di 1, SHF è "1"

Quando si selezionano unità combinate (unità interna ad espansione diretta RA+ unità interna ad espansione diretta VRV ),

- La correzione C<sub>i</sub> corrisponde a Te = 9°C valore rapporto TC per ogni tipo di unità interna, in base alla temperatura interna di progetto X/Y °CDB/°CBU
- La Correzione C<sub>i</sub> corrisponde a Te = 9°C valore rapporto TC per ogni tipo di unità interna, in base alla temperatura interna di progetto 29/19 °CDB/°CBU

Hoe deze tabel gebruiken:

Vermogen: totaal vermogen voor High Sensible-modus = totaal vermogen voor tabel normaal vermogen x ratio TV.

SHF: SHF voor High Sensible-modus = SHF voor tabel normaal vermogen x ratio SHF. Indien SHF groter is dan 1, is SHF "1"

Bij het selecteren van units voor gemengd gebruik (RA DX-binnenunits + VRV DX-binnenunits),

- Correctie C<sub>i</sub> komt overeen met ratio waarde Te = 9°C TC voor elk type binnenunit, afhankelijk van de ontwerptemperatuur van de binnenunit X/Y °CDB/°CDB
- Correctie C<sub>i</sub> komt overeen met ratio waarde Te = 9°C TC voor elk type binnenunit, afhankelijk van de omgevingstemperatuur van de binnenunit 29/19 °CDB/°CDB

Как пользоваться этой таблицей:

Производительность: Суммарная мощность для режима высокой производительности по сухому теплу = Суммарная мощность по таблице обычной мощности X коэффициент TC.

SHF: SHF для режима высокой производительности по сухому теплу =

SHF по таблице обычной мощности X коэффициент SHF.

Если SHF больше 1, принять SHF равным 1

При выборе блоков для смешанных установок (внутренние блоки RA DX + внутренние блоки VRV DX):

- Корректировка C<sub>i</sub> соответствует значению коэффициента TC Te = 9°C для каждого типа внутренних блоков, в зависимости от расчетной температуры в помещении X/Y °C сух.т./°C вл.т.
- Корректировка C<sub>i</sub> соответствует значению коэффициента TC Te = 9°C для каждого типа внутренних блоков, в зависимости от температуры в помещении 29/19 °C сух.т./°C вл.т.

Bu tablo nasıl kullanılır:

Kapasite: Yüksek hassasiyet modu toplam kapasitesi = Normal kapasite tablosu için toplam kapasite X TC oranı.

SHF: Yüksek hassasiyet modu için SHF = Normal kapasite tablosu için SHF X SHF oranı.

SHF, 1'den büyük ise SHF "1"dir

Karışık kombinasyonlar (RA DX iç üniteler + VRV DX iç üniteler) için ünite seçimi yapılırken,

- C<sub>i</sub> düzeltme faktörü, X/Y °C KT/°C YT iç ortam tasarımı basıncına bağlı olarak her bir iç ünite tipi için Te = 9°C TC oranına karşılık gelir
- C<sub>i</sub> düzeltme faktörü, 29/19 °C KT/°C YT iç ortam tasarımı basıncına bağlı olarak her bir iç ünite tipi için Te = 9°C TC oranına karşılık gelir

## 6 Capacity tables

### 6 - 3 Capacity Correction Factor

6

#### FXMQ-P7

|           |                        | Capacity correction factor Te = 11 °C |           |           |           |           |           |           |
|-----------|------------------------|---------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|           | Indoor air temperature | 14.0 °CWB                             | 16.0 °CWB | 18.0 °CWB | 19.0 °CWB | 20.0 °CWB | 22.0 °CWB | 24.0 °CWB |
|           |                        | 20.0 °CDB                             | 23.0 °CDB | 26.0 °CDB | 27.0 °CDB | 28.0 °CDB | 30.0 °CDB | 32.0 °CDB |
| FXMQ20P7  | TC                     | 0.548                                 | 0.569     | 0.597     | 0.637     | 0.671     | 0.724     | 0.759     |
|           | SHF                    | 1.130                                 | 1.216     | 1.246     | 1.191     | 1.151     | 1.102     | 1.093     |
| FXMQ25P7  | TC                     | 0.548                                 | 0.569     | 0.597     | 0.637     | 0.671     | 0.724     | 0.759     |
|           | SHF                    | 1.130                                 | 1.216     | 1.246     | 1.191     | 1.151     | 1.102     | 1.093     |
| FXMQ32P7  | TC                     | 0.548                                 | 0.571     | 0.599     | 0.639     | 0.673     | 0.724     | 0.759     |
|           | SHF                    | 1.126                                 | 1.211     | 1.244     | 1.190     | 1.149     | 1.102     | 1.093     |
| FXMQ40P7  | TC                     | 0.551                                 | 0.578     | 0.615     | 0.654     | 0.686     | 0.729     | 0.764     |
|           | SHF                    | 1.124                                 | 1.205     | 1.229     | 1.178     | 1.143     | 1.102     | 1.089     |
| FXMQ50P7  | TC                     | 0.544                                 | 0.561     | 0.599     | 0.637     | 0.669     | 0.722     | 0.762     |
|           | SHF                    | 1.150                                 | 1.238     | 1.243     | 1.189     | 1.152     | 1.108     | 1.090     |
| FXMQ63P7  | TC                     | 0.545                                 | 0.564     | 0.600     | 0.639     | 0.672     | 0.725     | 0.762     |
|           | SHF                    | 1.145                                 | 1.231     | 1.242     | 1.188     | 1.150     | 1.106     | 1.091     |
| FXMQ80P7  | TC                     | 0.548                                 | 0.573     | 0.608     | 0.648     | 0.681     | 0.727     | 0.762     |
|           | SHF                    | 1.128                                 | 1.211     | 1.235     | 1.183     | 1.145     | 1.102     | 1.091     |
| FXMQ100P7 | TC                     | 0.546                                 | 0.566     | 0.600     | 0.639     | 0.673     | 0.725     | 0.761     |
|           | SHF                    | 1.140                                 | 1.226     | 1.243     | 1.188     | 1.150     | 1.105     | 1.092     |
| FXMQ125P7 | TC                     | 0.548                                 | 0.573     | 0.607     | 0.646     | 0.680     | 0.726     | 0.761     |
|           | SHF                    | 1.126                                 | 1.210     | 1.237     | 1.184     | 1.145     | 1.102     | 1.091     |

3D079901

#### 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 kullanılmalı?:

- 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. охлуждения = SHF 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 .

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.

ощутимого 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

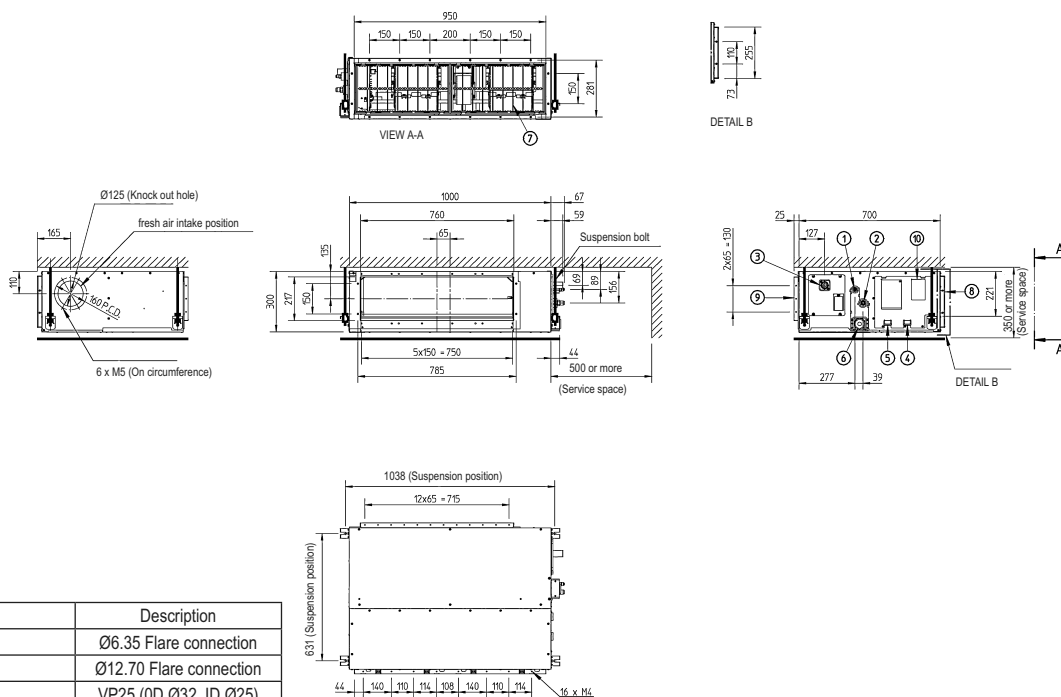




## 7 Dimensional drawings

### 7 - 1 Dimensional Drawings

#### FXMQ50P7



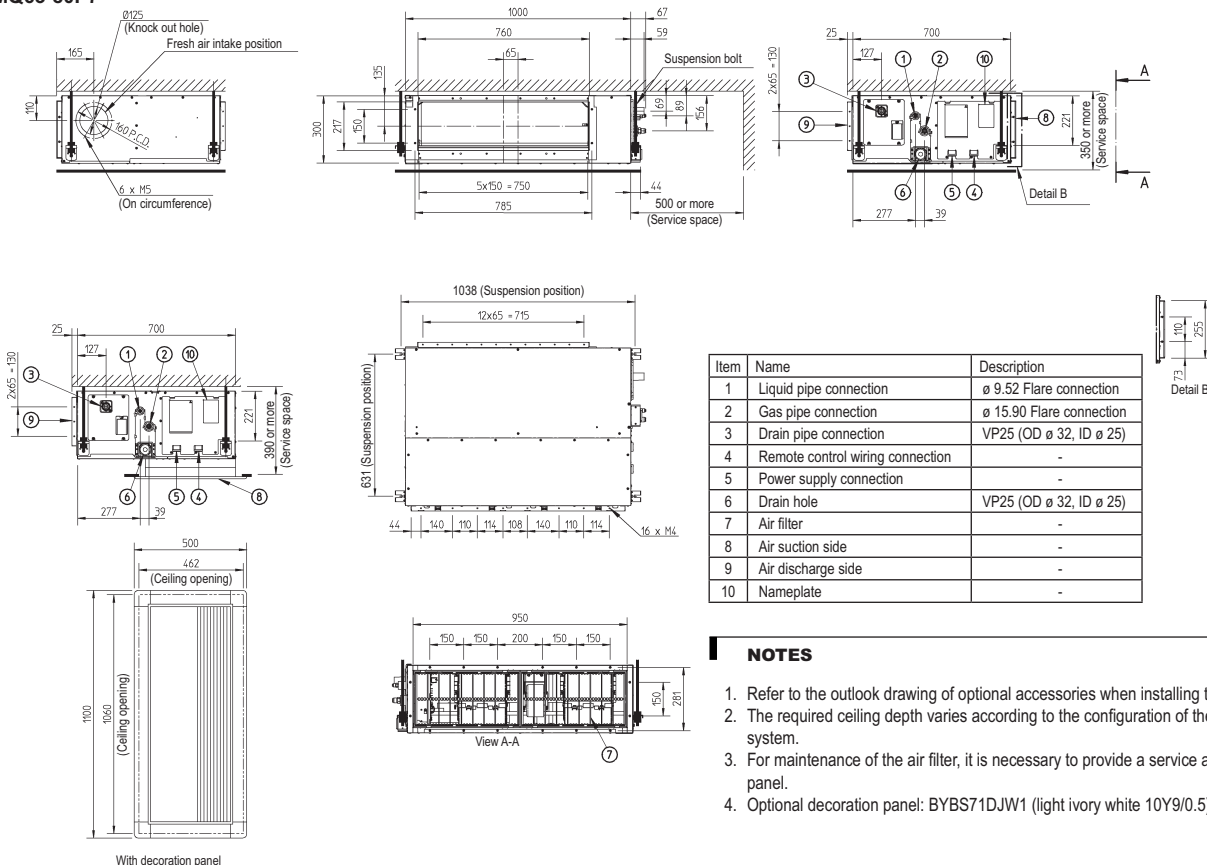
| Item | Name                             | Description             |
|------|----------------------------------|-------------------------|
| 1    | Liquid pipe connection           | Ø6.35 Flare connection  |
| 2    | Gas pipe connection              | Ø12.70 Flare connection |
| 3    | Drain pipe connection            | VP25 (OD Ø32, ID Ø25)   |
| 4    | Remote control wiring connection | -                       |
| 5    | Power supply connection          | -                       |
| 6    | Drain hole                       | VP20 (OD Ø32, ID Ø25)   |
| 7    | Air filter                       | -                       |
| 8    | Air suction side                 | -                       |
| 9    | Air discharge side               | -                       |
| 10   | Nameplate                        | -                       |

#### NOTES

- 1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
- 2 The required ceiling depth varies according to the configuration of the specific system.
- 3 For maintenance of the air filter, it is necessary to provide a service access panel. Refer to the 'filter installation method' drawing.

3TW32694-1

#### FXMQ63-80P7



| Item | Name                             | Description              |
|------|----------------------------------|--------------------------|
| 1    | Liquid pipe connection           | ø 9.52 Flare connection  |
| 2    | Gas pipe connection              | ø 15.90 Flare connection |
| 3    | Drain pipe connection            | VP25 (OD ø 32, ID ø 25)  |
| 4    | Remote control wiring connection | -                        |
| 5    | Power supply connection          | -                        |
| 6    | Drain hole                       | VP25 (OD ø 32, ID ø 25)  |
| 7    | Air filter                       | -                        |
| 8    | Air suction side                 | -                        |
| 9    | Air discharge side               | -                        |
| 10   | Nameplate                        | -                        |

#### NOTES

1. Refer to the outlook drawing of optional accessories when installing them.
2. The required ceiling depth varies according to the configuration of the specific system.
3. For maintenance of the air filter, it is necessary to provide a service access panel.
4. Optional decoration panel: BYBS71DJW1 (light ivory white 10Y9/0.5)

3TW31234-1B

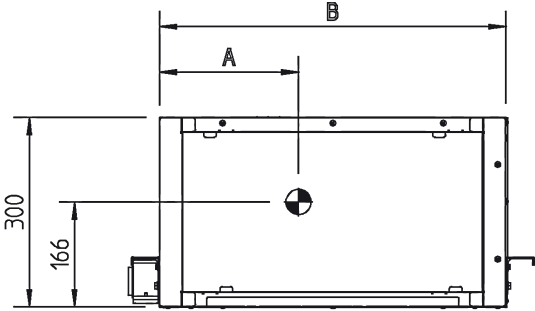
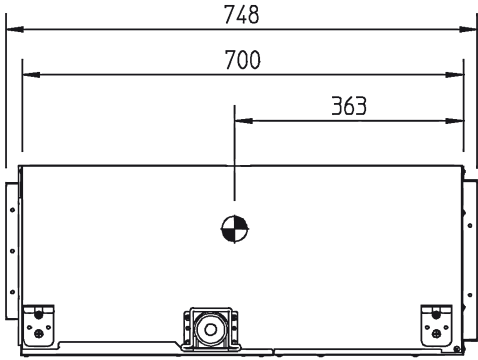




8 Centre of gravity

8 - 1 Centre of Gravity

FXMQ-P7



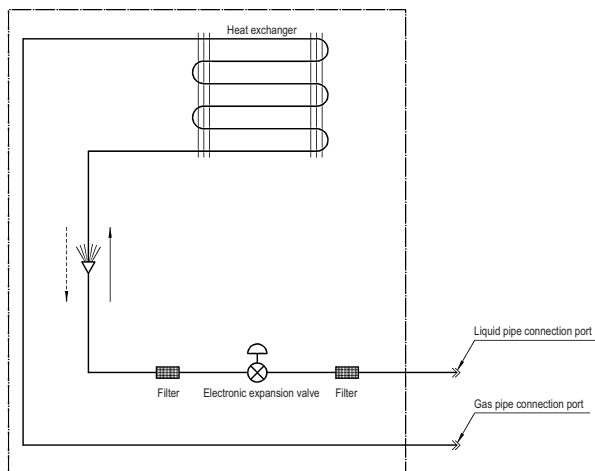
| Model        | A   | B    |
|--------------|-----|------|
| FXMQ20~32    | 220 | 550  |
| FXMQ40       | 283 | 700  |
| FXMQ50,63,80 | 441 | 1000 |
| FXMQ100,125  | 619 | 1400 |

4TW31189-1B

## 9 Piping diagrams

### 9 - 1 Piping Diagrams

FXMQ-P7



Refrigerantflow

Cooling ———→  
Heating - - - - -→

Refrigerant pipe connection port diameters

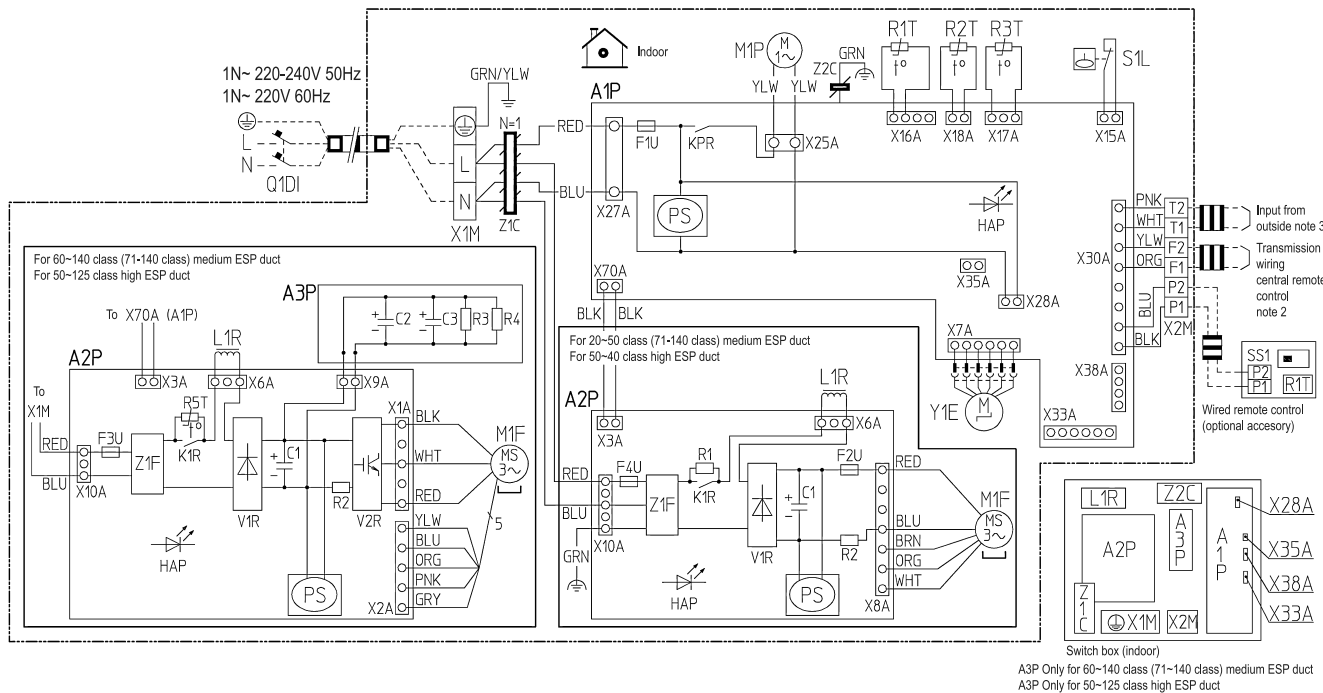
| Model              | Gas    | Liquid |
|--------------------|--------|--------|
| FXMQ20,25,32,40,50 | Ø12.70 | Ø6.35  |
| FXMQ63,80,100,125  | Ø15.90 | Ø9.52  |

3TW31185-1A

# 10 Wiring diagrams

## 10 - 1 Wiring Diagrams - Single Phase

### FXMQ20-40P7



Field wiring  
L : Live  
N : Neutral  
Connector

Wire clamp  
Protective earth (screw)

Colors: BLK : black  
BLU : blue  
BRN : brown  
GRY : grey  
ORG : orange  
PNK : pink  
RED : red  
WHT : white  
YLW : yellow  
GRN : green

| Indoor unit |                                                 |                              |                                        |
|-------------|-------------------------------------------------|------------------------------|----------------------------------------|
| A1P         | Printed circuit board                           | R2T                          | Thermistor (Liquid)                    |
| A2P         | Printed circuit board (fan)                     | R3T                          | Thermistor (Gas)                       |
| A3P         | Printed circuit board (capacitor)               | R5T                          | Thermistor NTC (Current limiting)      |
| C1, C2, C3  | Capacitor                                       | S1L                          | Float switch                           |
| F1U         | Fuse (T, 3.15A, 250V)                           | V1R                          | Diode bridge                           |
| F2U         | Fuse (T, 5A, 250V)                              | V2R                          | Power module                           |
| F3U         | Fuse (T, 6.3A, 250V)                            | X1M                          | Terminal strip (Power supply)          |
| F4U         | Fuse (T, 6.3A, 250V)                            | X2M                          | Terminal strip (Control)               |
| HAP         | Light emitting diode<br>(service monitor-green) | Y1E                          | Electronic expansion valve             |
| KRP,K1R     | Magnetic relay                                  | Z1C, Z2C                     | Noise filter (Ferrite core)            |
| L1R         | Reactor                                         | Z1F                          | Noise filter                           |
| M1F         | Motor (Fan)                                     | Connector optional accessory |                                        |
| M1P         | Motor (Drain pump)                              | X28A                         | Connector<br>(power supply for wiring) |
| PS          | Switching power supply                          | X33A                         | Connector (For wiring)                 |
| Q1DI        | Earth leak detector                             | X35A                         | Connector (Adapter)                    |
| R1          | Resistor (Current limiting)                     | X38A                         | Connector (For wiring)                 |
| R2          | Current sensing device                          | Wired remote control         |                                        |
| R3, R4      | Resistor (Electric discharge)                   | R1T                          | Thermistor (Air)                       |
| R1T         | Thermistor (Suction air)                        | SS1                          | Selector switch (Main/sub)             |

2TW32656-1

### NOTES

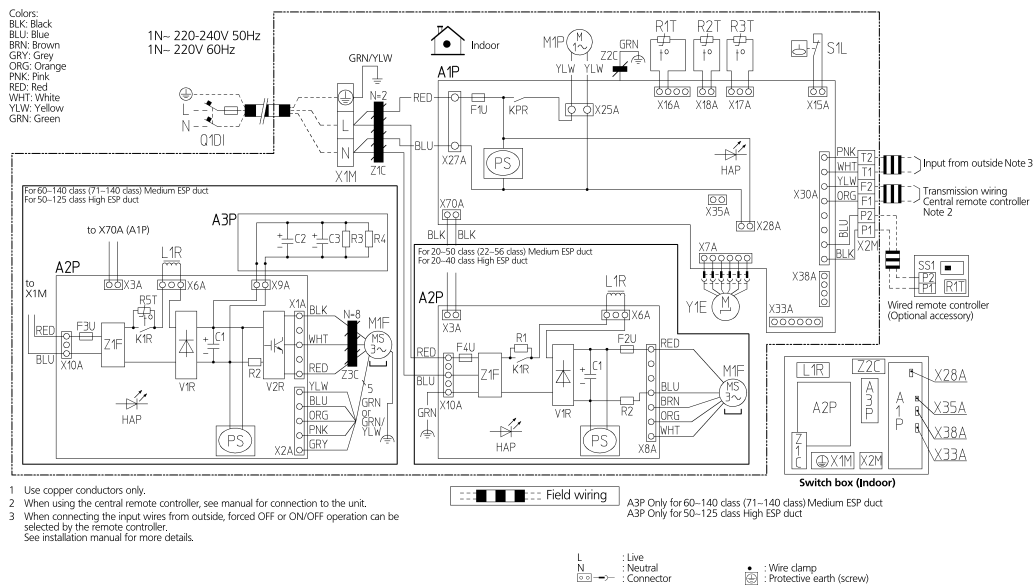
- Use copper conductors only.
- When using the central remote control, see manual for connection to the unit.
- When connecting the input wires from outside, forced 'OFF' or 'ON/OFF' operation can be selected by the remote control. See installation manual for more details.

# 10 Wiring diagrams

## 10 - 1 Wiring Diagrams - Single Phase

### FXMQ50-125P7

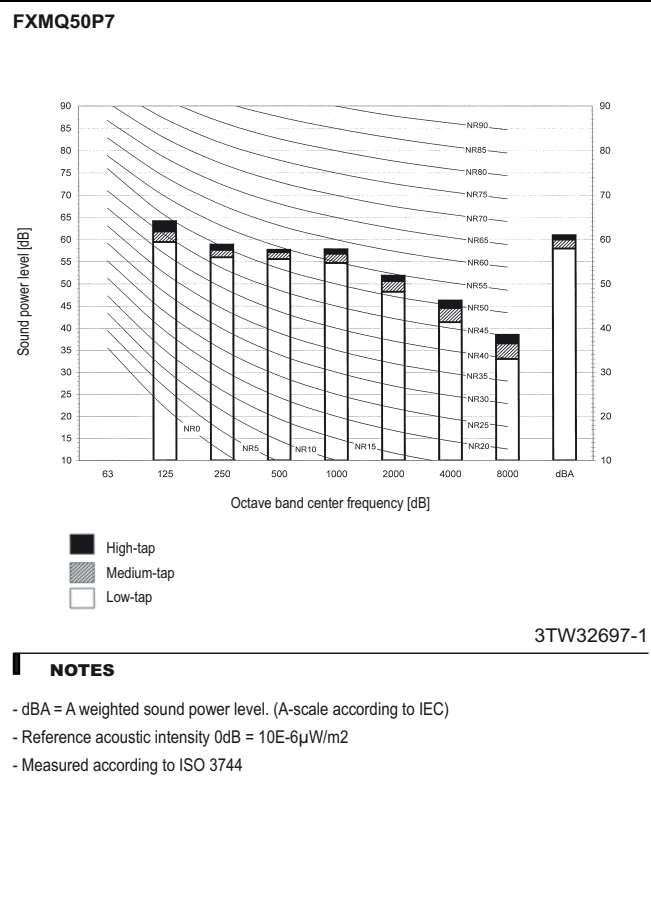
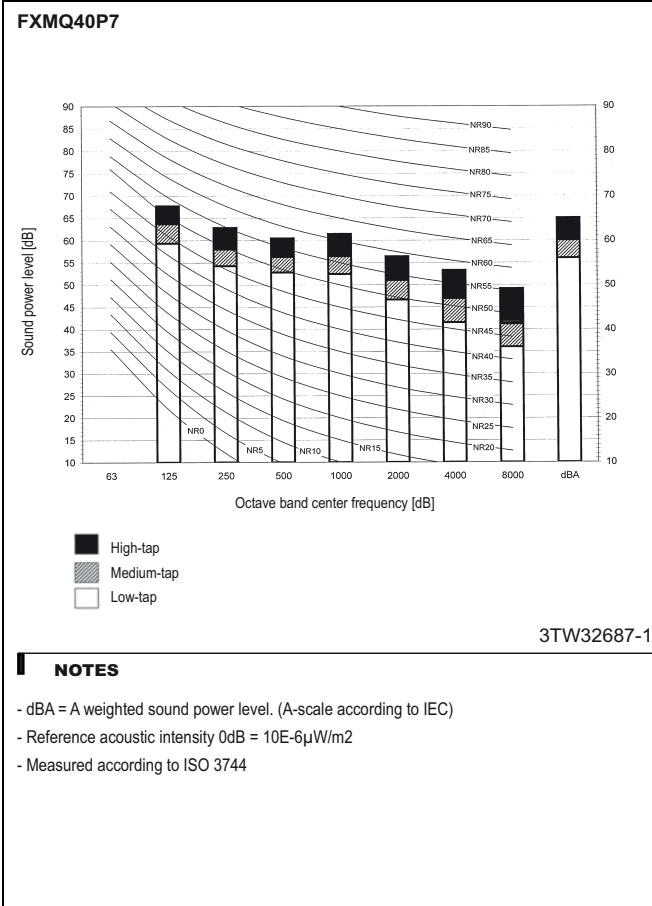
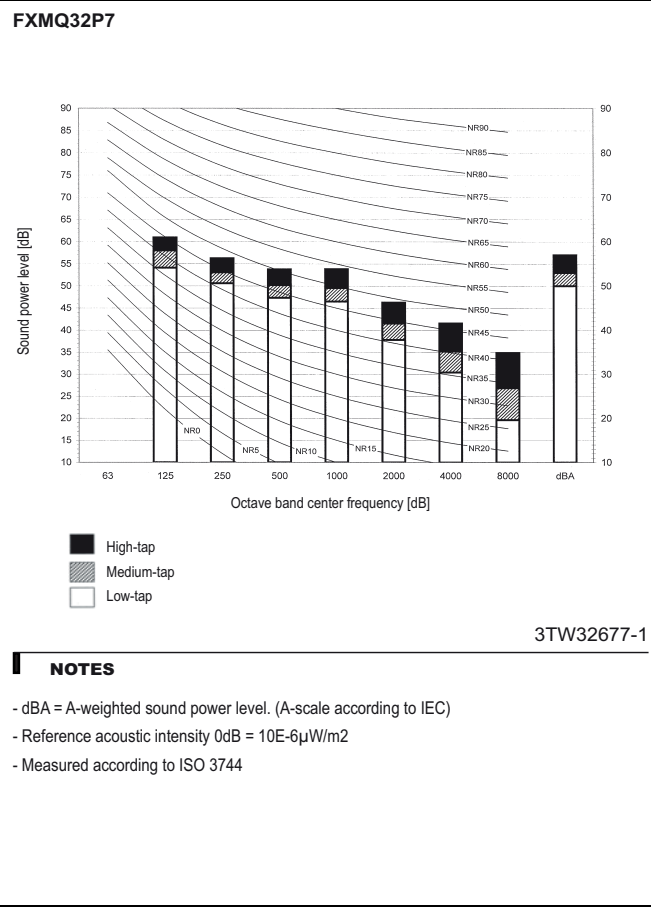
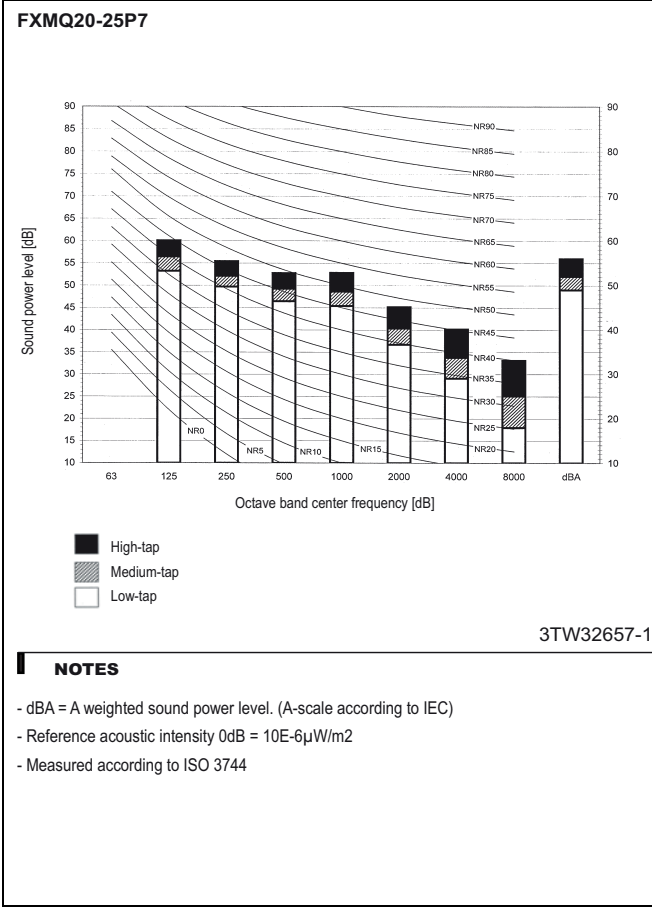
- Indoor unit
- A1P : Printed circuit board
  - A2P : Printed circuit board (Fan)
  - A3P : Printed circuit board (Capacitor)
  - C1,C2,C3 : Capacitor
  - F1U : Fuse (T, 3.15A, 250V)
  - F2U : Fuse (T, 5A, 250V)
  - F3U : Fuse (T, 6.3A, 250V)
  - F4U : Fuse (T, 6.3A, 250V)
  - HAP : Light emitting diode (Service monitor-green)
  - KPRK1R : Magnetic relay
  - L1R : Reactor
  - M1F : Motor (Fan)
  - M1P : Motor (Drain pump)
  - PS : Switching power supply
  - Q1DI : Earth leak detector
  - R1 : Resistor (current limiting)
  - R2 : Resistor (Electric discharge)
  - R3,R4 : Thermistor (Suction air)
  - R1T : Thermistor (liquid)
  - R2T : Thermistor (gas)
  - R3T : Thermistor NTC (current limiting)
  - S1L : Float switch
  - V1R : Diode bridge
  - V2R : Power module
  - X1M : Terminal strip (Power supply)
  - X2M : Terminal strip (control)
  - Y1E : Electronic expansion valve
  - Z1C,Z2C,Z3C : Noise filter
  - Z1F : Noise filter
- Connector optional accessory
- X28A : Connector (Power supply for wiring)
  - X33A : Connector (for wiring)
  - X35A : Connector (Adapter)
  - X38A : Connector (for wiring)
- Wired remote controller
- R1T : Thermistor (air)
  - SS1 : Selector switch (main/sub)



2TW32656-2

# 11 Sound data

## 11 - 1 Sound Power Spectrum

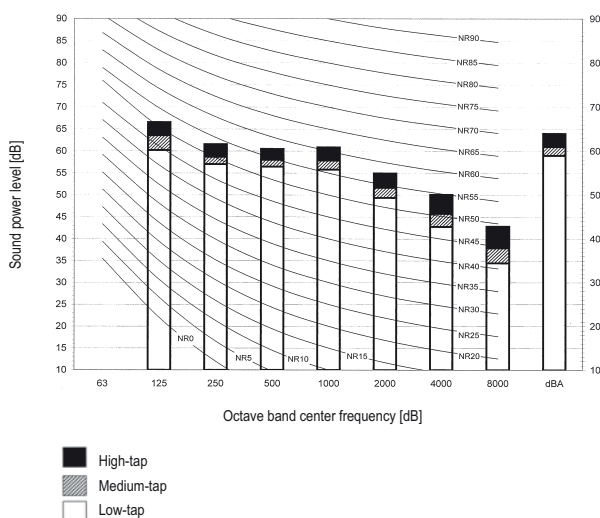


# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

FXMQ63P7

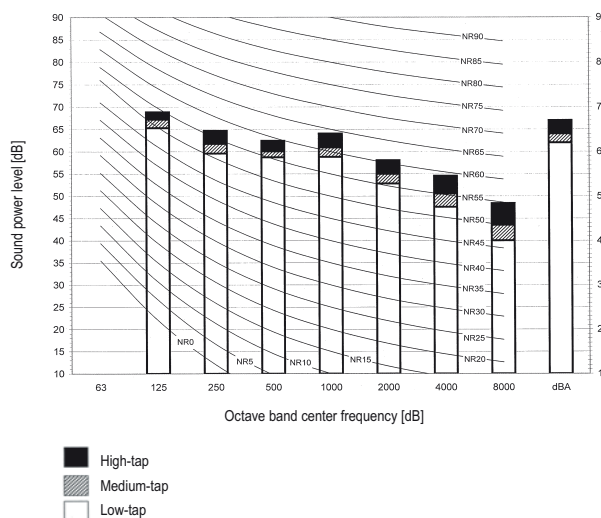


3TW32707-1

### 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

FXMQ80P7

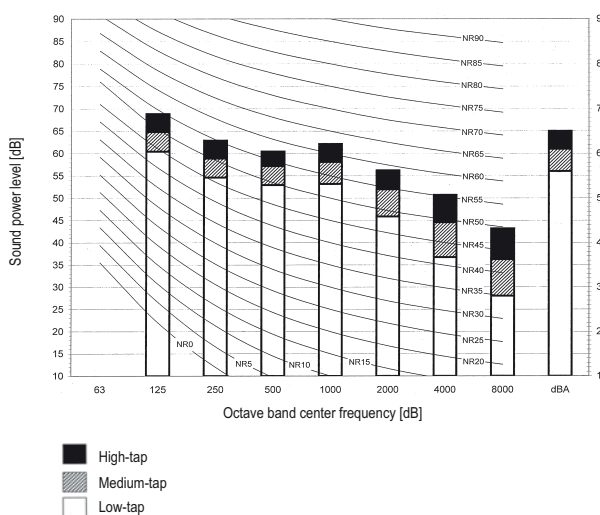


3TW32717-1

### 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

FXMQ100P7

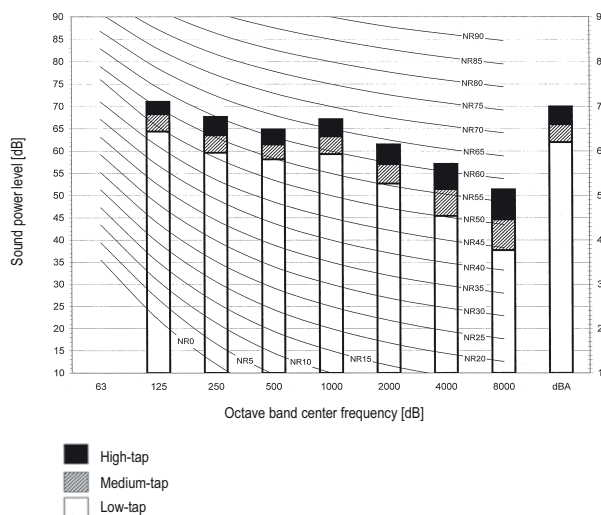


3TW32727-1

### 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

FXMQ125P7



3TW32737-1

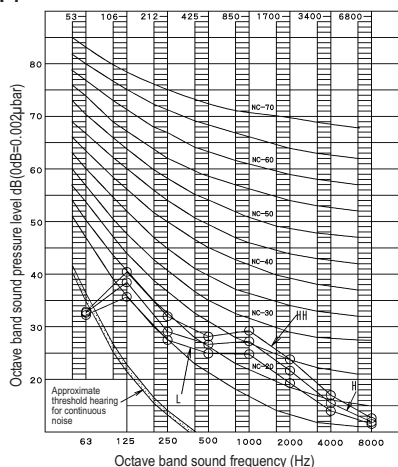
### NOTES

- 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

# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

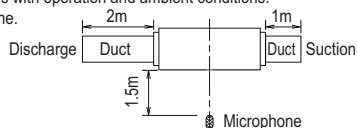
FXMQ20-25P7



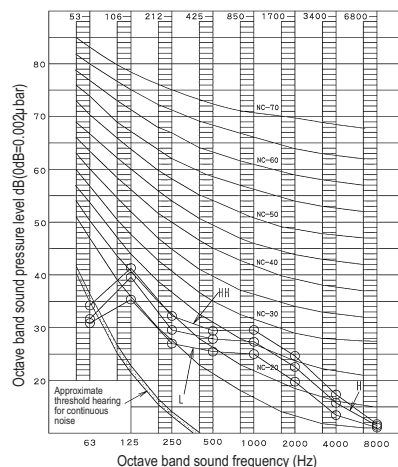
4D062535

### NOTES

- Over All (dB):  
(B,G,N is already rectified)
- Operating conditions:
  - Power source: 220-240V 50Hz / 220V 60Hz
  - Cooling: Return air temperature: 27°CDB, 19°CWB  
Outdoor temperature: 35°CDB, 24°CWD
  - Heating: Return air temperature: 20°CDB, 15°CWB  
Outdoor temperature: 7°CDB, 6°CWD
  - External static pressure: 50Pa
- Measuring place: Anechoic chamber.
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



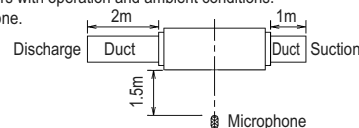
FXMQ32P7



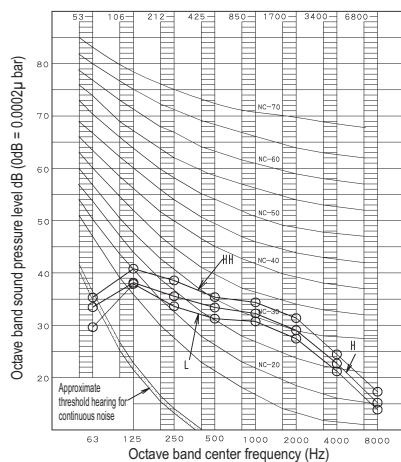
4D062536

### NOTES

- Over All (dB):  
(B,G,N is already rectified)
- Operating conditions:
  - Power source: 220-240V 50Hz / 220V 60Hz
  - Cooling: Return air temperature: 27°CDB, 19°CWB  
Outdoor temperature: 35°CDB, 24°CWD
  - Heating: Return air temperature: 20°CDB, 15°CWB  
Outdoor temperature: 7°CDB, 6°CWD
  - External static pressure: 50Pa
- Measuring place: Anechoic chamber.
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



FXMQ40P7



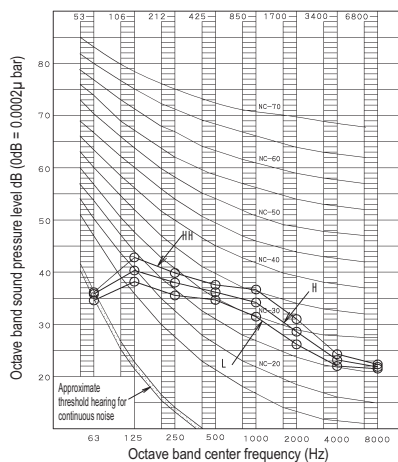
4D060446B

### NOTES

- Over All (dB):  
(B,G,N is already rectified)
- Operating conditions:
  - Power source: 220-240V 50Hz / 220V 60Hz
  - Cooling: return air temperature: 27°CDB, 19°CWB  
outdoor temperature: 35°CDB, 24°CWD
  - Heating: return air temperature: 20°CDB, 15°CWB  
outdoor temperature: 7°CDB, 6°CWB
  - External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



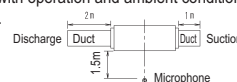
FXMQ50P7



4D060428B

### NOTES

- Over All (dB):  
(B,G,N is already rectified)
- Operating conditions:
  - Power source: 220-240V 50Hz / 220V 60Hz
  - Cooling: return air temperature: 27°CDB, 19°CWB  
outdoor temperature: 35°CDB, 24°CWD
  - Heating: return air temperature: 20°CDB, 15°CWB  
outdoor temperature: 7°CDB, 6°CWB
  - External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.

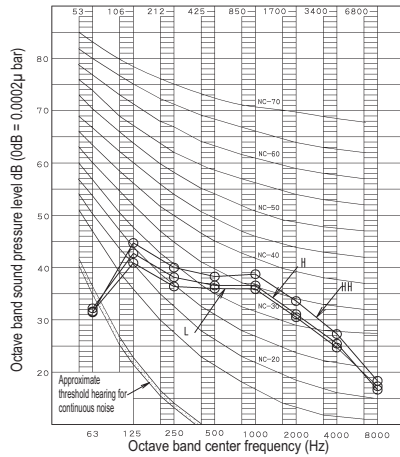


# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

11

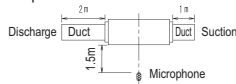
FXMQ63P7



4D060447B

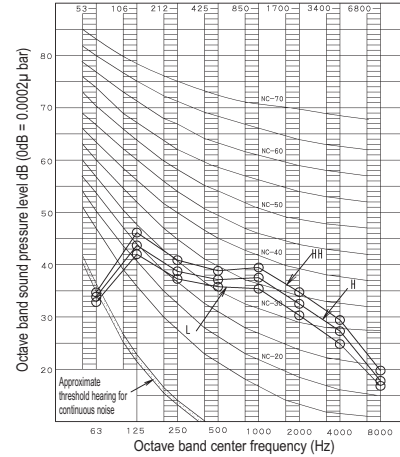
### NOTES

- Over All (dB):  
(B,G,N is already rectified)
- Operating conditions:  
Power source: 220~240V 50Hz / 220V 60Hz  
Cooling: return air temperature: 27°CDB, 19°CWB  
outdoor temperature: 35°CDB, 24°CWD  
Heating: return air temperature: 20°CDB, 15°CWB  
outdoor temperature: 7°CDB, 6°CWB  
External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



| Scale | Air flow rate |      |      |
|-------|---------------|------|------|
|       | HH            | H    | L    |
| A     | 42.0          | 40.0 | 38.0 |
| C     | 48.0          | 46.0 | 44.0 |

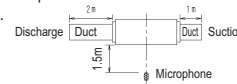
FXMQ80P7



4D060429B

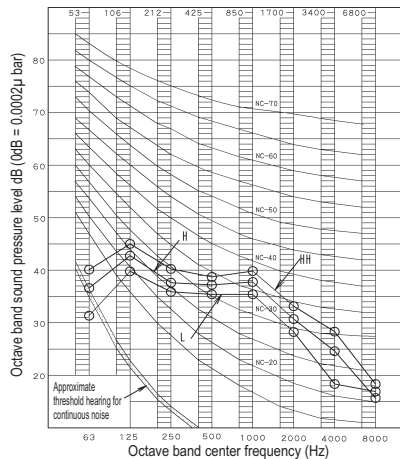
### NOTES

- Over All (dB):  
(B,G,N is already rectified)
- Operating conditions:  
Power source: 220~240V 50Hz / 220V 60Hz  
Cooling: return air temperature: 27°CDB, 19°CWB  
outdoor temperature: 35°CDB, 24°CWD  
Heating: return air temperature: 20°CDB, 15°CWB  
outdoor temperature: 7°CDB, 6°CWB  
External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



| Scale | Air flow rate |      |      |
|-------|---------------|------|------|
|       | HH            | H    | L    |
| A     | 43.0          | 41.0 | 39.0 |
| C     | 49.0          | 47.0 | 45.0 |

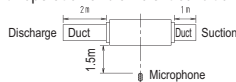
FXMQ100P7



4D060448B

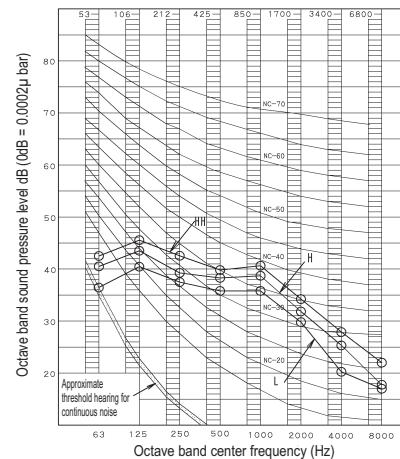
### NOTES

- Over All (dB):  
(B,G,N is already rectified)
- Operating conditions:  
Power source: 220~240V 50Hz / 220V 60Hz  
Cooling: return air temperature: 27°CDB, 19°CWB  
outdoor temperature: 35°CDB, 24°CWD  
Heating: return air temperature: 20°CDB, 15°CWB  
outdoor temperature: 7°CDB, 6°CWB  
External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



| Scale | Air flow rate |      |      |
|-------|---------------|------|------|
|       | HH            | H    | L    |
| A     | 43.0          | 41.0 | 39.0 |
| C     | 49.0          | 46.0 | 44.0 |

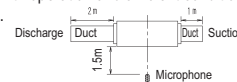
FXMQ125P7



4D060449B

### NOTES

- Over All (dB):  
(B,G,N is already rectified)
- Operating conditions:  
Power source: 220~240V 50Hz / 220V 60Hz  
Cooling: return air temperature: 27°CDB, 19°CWB  
outdoor temperature: 35°CDB, 24°CWD  
Heating: return air temperature: 20°CDB, 15°CWB  
outdoor temperature: 7°CDB, 6°CWB  
External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



| Scale | Air flow rate |      |      |
|-------|---------------|------|------|
|       | HH            | H    | L    |
| A     | 44.0          | 42.0 | 40.0 |
| C     | 50.0          | 48.0 | 45.0 |

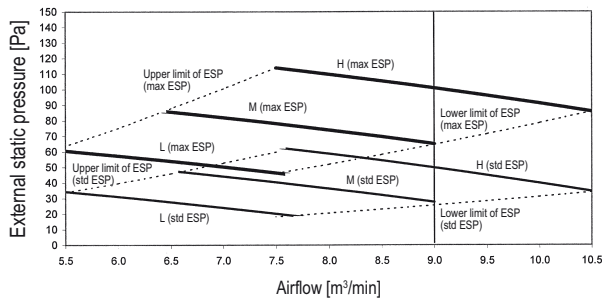


# 12 Fan characteristics

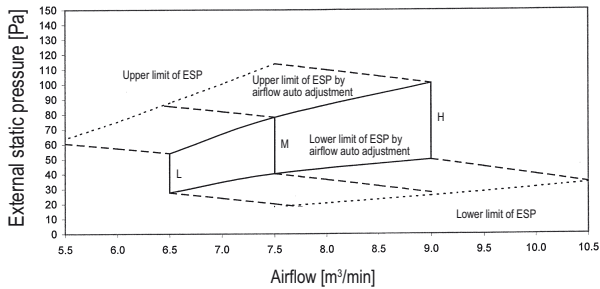
## 12 - 1 Fan Characteristics

FXMQ20-25P7

Fan characteristics (1)

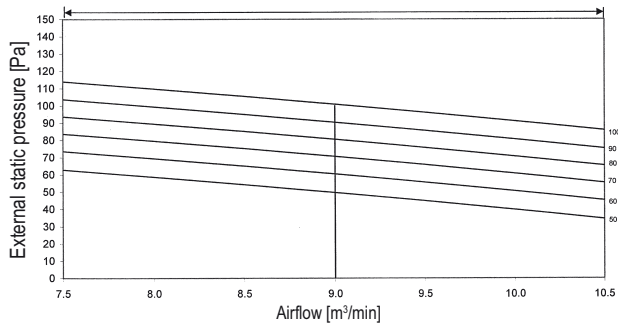


Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)

Range of available air flow rate (H)



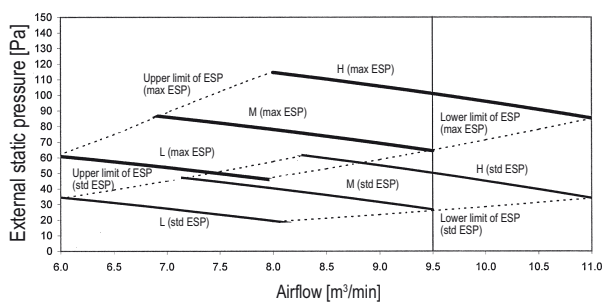
3TW32658-1

### NOTES

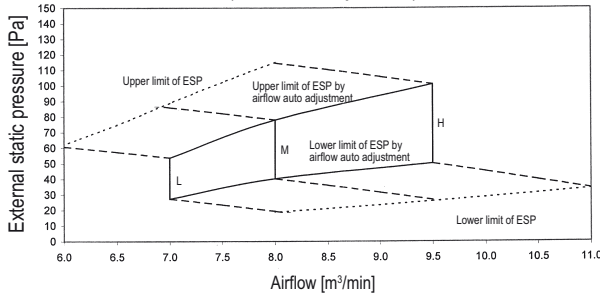
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

FXMQ32P7

Fan characteristics (1)

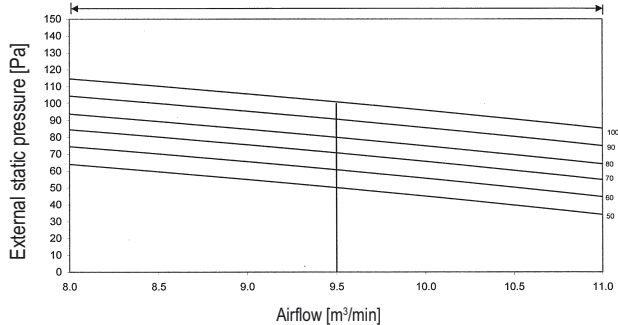


Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)

Range of available air flow rate (H)



3TW32678-1

### NOTES

1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

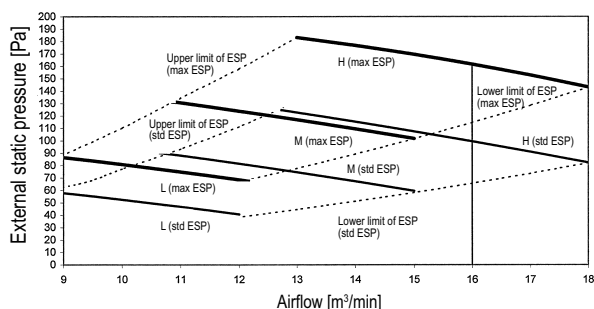
## 12 Fan characteristics

### 12 - 1 Fan Characteristics

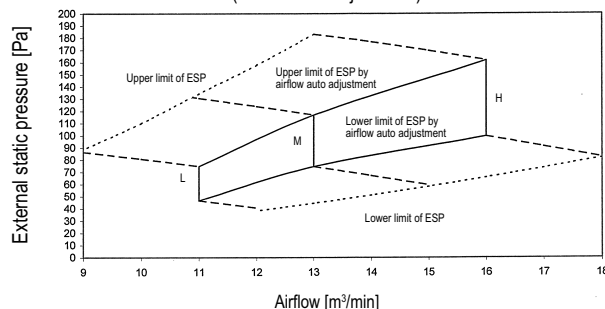
12

#### FXMQ40P7

Fan characteristics (1)

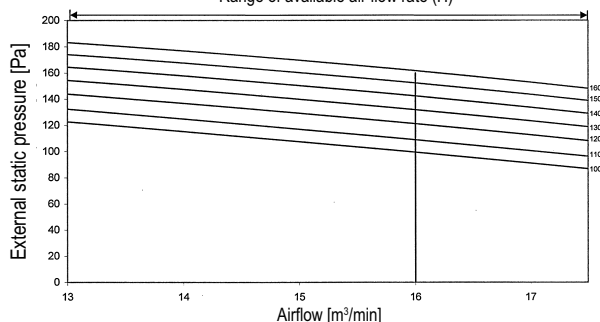


Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)

Range of available air flow rate (H)



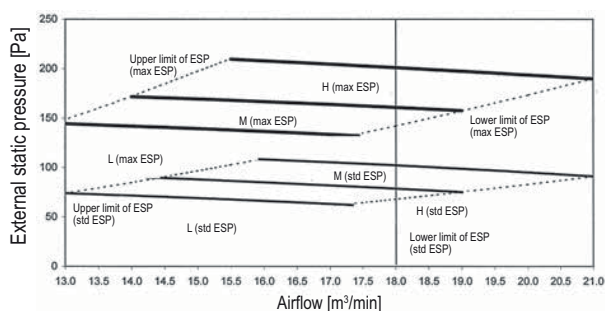
3TW32688-1

#### NOTES

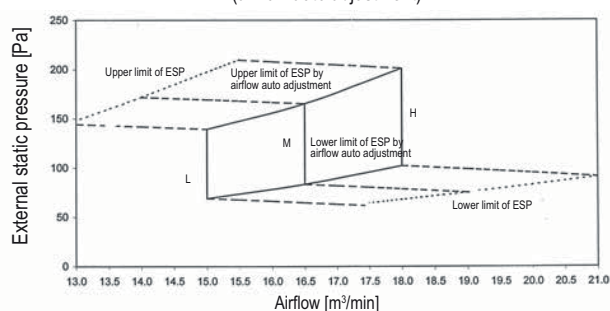
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

#### FXMQ50P7

Fan characteristics (1)

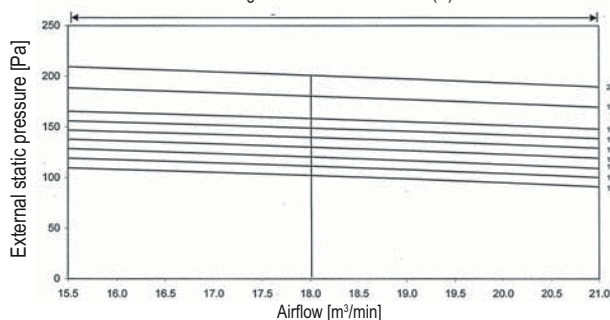


Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)

Range of available air flow rate (H)



3TW32698-1

#### NOTES

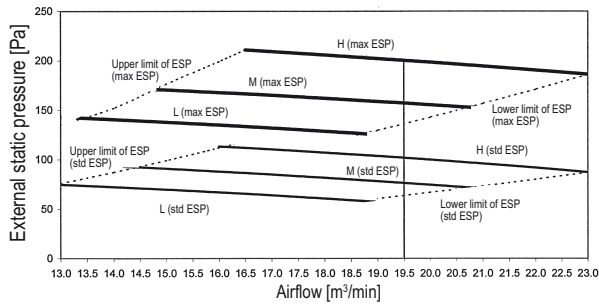
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

# 12 Fan characteristics

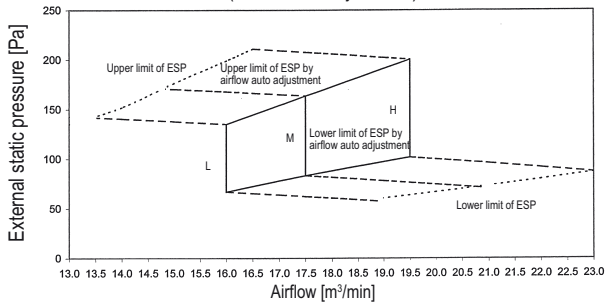
## 12 - 1 Fan Characteristics

### FXMQ63P7

Fan characteristics (1)

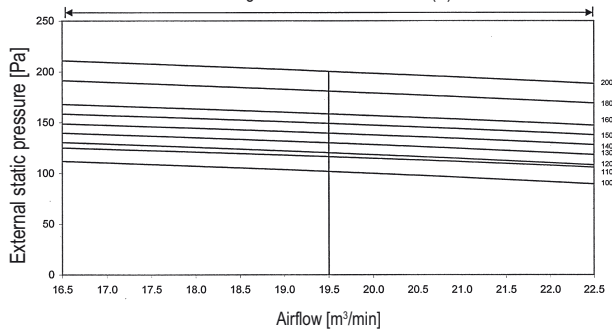


Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)

Range of available air flow rate (H)



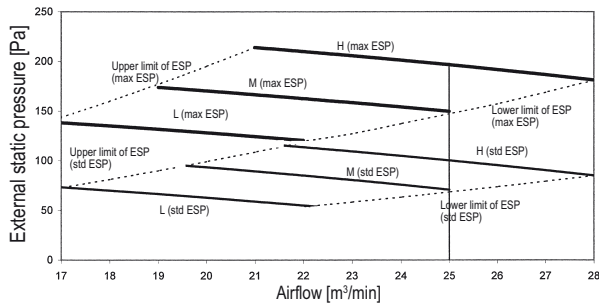
3TW32708-1

#### NOTES

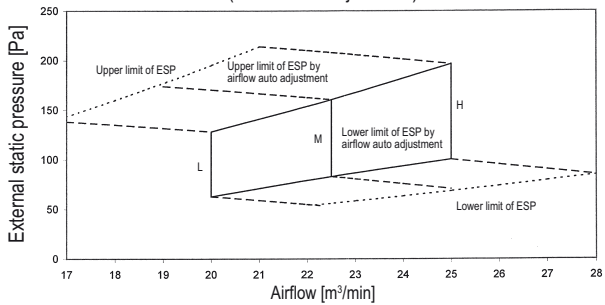
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

### FXMQ80P7

Fan characteristics (1)

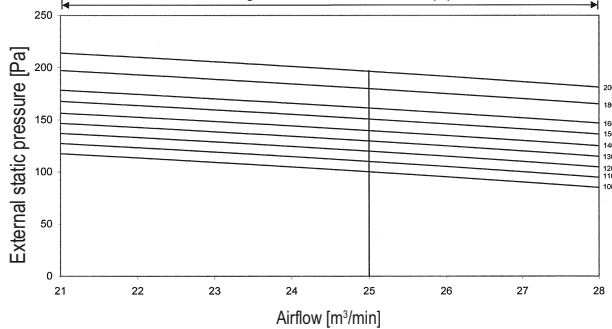


Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)

Range of available air flow rate (H)



3TW32718-1

#### NOTES

1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

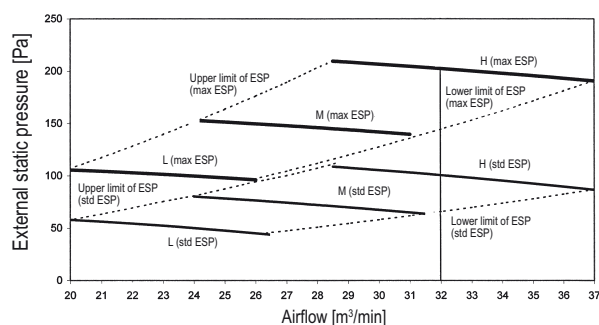
## 12 Fan characteristics

### 12 - 1 Fan Characteristics

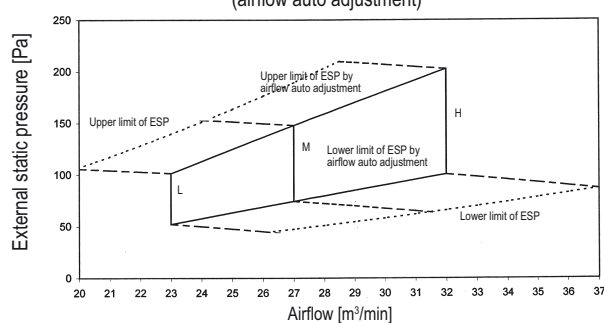
12

#### FXMQ100P7

Fan characteristics (1)

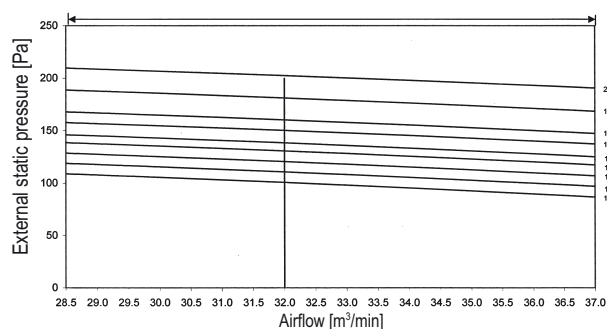


Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)

Range of available air flow rate (H)



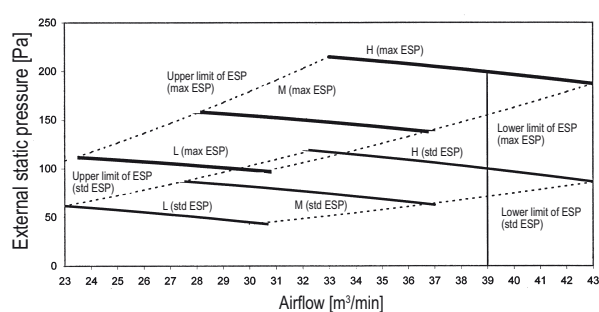
3TW32728-1

#### NOTES

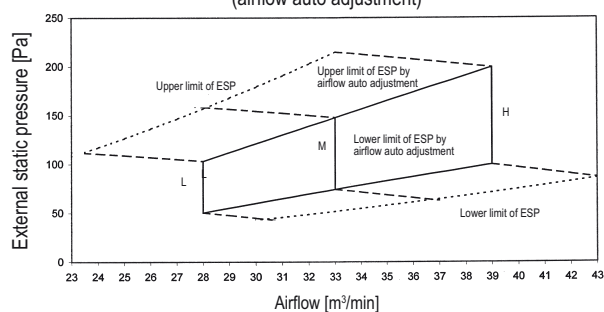
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure.

#### FXMQ125P7

Fan characteristics (1)

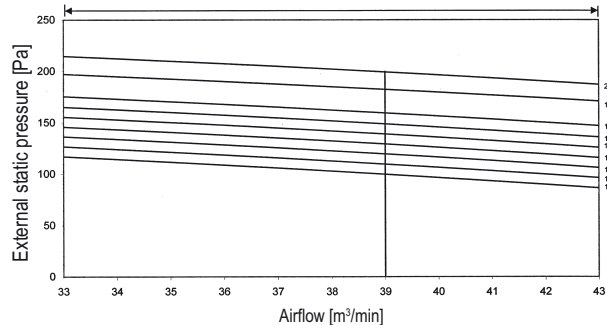


Fan characteristics (3)  
(airflow auto adjustment)



Fan characteristics (2)  
(Field setting with remote control)

Range of available air flow rate (H)



3TW32738-1

#### NOTES

1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure



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