



# Air Conditioning Technical Data

Small concealed ceiling unit



EEDEN12-204

FXDQ-M9



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## FXDQ-M9

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# 1 Features

- Designed for hotel bedrooms
- Compact dimensions (230mm high & 652mm deep), can easily be mounted in a ceiling void
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Standard air filter removes airborne dust particles to ensure a steady supply of clean air
- The air suction direction can be altered from rear to bottom suction
- For easy mounting, the drain pan can be located to the left or right of the unit
- Allows multi tenant applications (option PCB required)

1



2 steps

optional

## 2 Specifications

| 2-1 Technical Specifications |                      |                     |                                                   | FXDQ20M9                     |             | FXDQ25M9 |     |  |
|------------------------------|----------------------|---------------------|---------------------------------------------------|------------------------------|-------------|----------|-----|--|
| Cooling capacity             | Nom.                 |                     | kW                                                | 2.2 (1)                      |             | 2.8 (1)  |     |  |
| Heating capacity             | Nom.                 |                     | kW                                                | 2.5 (2)                      |             | 3.2 (2)  |     |  |
| Power input - 50Hz           | Cooling              | Nom.                | kW                                                | 0.050 (1)                    |             |          |     |  |
|                              | Heating              | Nom.                | kW                                                | 0.050 (2)                    |             |          |     |  |
| Casing                       | Colour               |                     |                                                   | Unpainted                    |             |          |     |  |
|                              | Material             |                     |                                                   | Galvanised steel             |             |          |     |  |
| Dimensions                   | Unit                 | Height              | mm                                                | 230                          |             |          |     |  |
|                              |                      | Width               | mm                                                | 502                          |             |          |     |  |
|                              |                      | Depth               | mm                                                | 652                          |             |          |     |  |
|                              | Packed unit          | Height              | mm                                                | 301                          |             |          |     |  |
|                              |                      | Width               | mm                                                | 584                          |             |          |     |  |
|                              |                      | Depth               | mm                                                | 753                          |             |          |     |  |
| Required ceiling void >      |                      |                     | mm                                                | 250                          |             |          |     |  |
| Weight                       | Unit                 |                     | kg                                                | 17                           |             |          |     |  |
|                              | Packed unit          |                     | kg                                                | 18                           |             |          |     |  |
| Heat exchanger               | Length               |                     | mm                                                | 430                          |             |          |     |  |
|                              | Rows                 | Quantity            |                                                   | 2                            |             |          |     |  |
|                              | Fin pitch            |                     | mm                                                | 1.4                          |             |          |     |  |
|                              | Passes               | Quantity            |                                                   | 2                            |             |          |     |  |
|                              | Face area            |                     | m <sup>2</sup>                                    | 0.108                        |             |          |     |  |
|                              | Stages               | Quantity            |                                                   | 12                           |             |          |     |  |
|                              | Empty tubeplate hole | Quantity            |                                                   | 4                            |             | 0        |     |  |
|                              | Tube type            |                     | ø7 Hi-XSS                                         |                              |             |          |     |  |
|                              | Fin                  | Type                |                                                   | Symmetric waffle louvre      |             |          |     |  |
|                              |                      | Treatment           |                                                   | Hydrophilic                  |             |          |     |  |
|                              | Fan                  | Type                |                                                   |                              | Sirocco fan |          |     |  |
| Quantity                     |                      |                     | 1                                                 |                              |             |          |     |  |
| Air flow rate - 50Hz         |                      | Cooling             | High                                              | m <sup>3</sup> /min          | 6.7         |          | 7.4 |  |
|                              |                      |                     | Low                                               | m <sup>3</sup> /min          | 5.2         |          | 5.8 |  |
| Heating                      |                      | High                | m <sup>3</sup> /min                               | 6.7                          |             | 7.4      |     |  |
|                              | Low                  | m <sup>3</sup> /min | 5.2                                               |                              | 5.8         |          |     |  |
| Fan motor                    | Quantity             |                     |                                                   | 1                            |             |          |     |  |
|                              | Model                |                     |                                                   | Step motor                   |             |          |     |  |
|                              | Speed                | Steps               |                                                   | 3                            |             |          |     |  |
|                              | Output               | High                | W                                                 | 10                           |             |          |     |  |
|                              | Drive                |                     |                                                   | Direct drive                 |             |          |     |  |
| Sound power level            | Cooling              | Nom.                | dBA                                               | 50                           |             |          |     |  |
| Sound pressure level         | Cooling              | High                | dBA                                               | 37                           |             |          |     |  |
|                              |                      | Low                 | dBA                                               | 32                           |             |          |     |  |
|                              | Heating              | High                | dBA                                               | 37                           |             |          |     |  |
|                              |                      | Low                 | dBA                                               | 32                           |             |          |     |  |
| Refrigerant                  | Type                 |                     |                                                   | R-410A                       |             |          |     |  |
|                              | Control              |                     |                                                   | Electronic expansion valve   |             |          |     |  |
| Piping connections           | Liquid               | Type                |                                                   | Flare connection             |             |          |     |  |
|                              |                      | OD                  | mm                                                | 6.35                         |             |          |     |  |
|                              | Gas                  | Type                |                                                   | Flare connection             |             |          |     |  |
|                              |                      | OD                  | mm                                                | 12.7                         |             |          |     |  |
|                              | Drain                |                     |                                                   | I.D. 21.6, O.D. 27.2         |             |          |     |  |
| Temperature control          |                      |                     | Microprocessor thermostat for cooling and heating |                              |             |          |     |  |
| Air direction control        |                      |                     | Up and downwards                                  |                              |             |          |     |  |
| Safety devices               | Item                 | 01                  |                                                   | PC board fuse                |             |          |     |  |
|                              |                      | 02                  |                                                   | Fan motor thermal protection |             |          |     |  |

| 2-2 Electrical Specifications |           |  |    | FXDQ20M9 |  | FXDQ25M9 |  |
|-------------------------------|-----------|--|----|----------|--|----------|--|
| Power supply                  | Name      |  |    | V1       |  |          |  |
|                               | Phase     |  |    | 1~       |  |          |  |
|                               | Frequency |  | Hz | 50       |  |          |  |
|                               | Voltage   |  | V  | 230      |  |          |  |

## 2 Specifications

| 2-2 Electrical Specifications |                            |       | FXDQ20M9 | FXDQ25M9        |
|-------------------------------|----------------------------|-------|----------|-----------------|
| Voltage range                 | Min.                       | %     |          | -10             |
|                               | Max.                       | %     |          | 10              |
| Current - 50Hz                | Zmax                       | List  |          | No requirements |
|                               | Minimum circuit amps (MCA) |       | A        | 0.2             |
|                               | Maximum fuse amps (MFA)    |       | A        | 16              |
|                               | Full load amps (FLA)       | Total | A        | 0.1             |

### Notes

- (1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 8m; level difference: 0m
- (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 8m; level difference: 0m
- (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:  $MCA = 1.25 \times FLA$
- (7)  $MFA < 4 \times FLA$
- (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 Safety device settings

#### 3 - 1 Safety Device Settings

|                             |    | FXDQ20M9                                        | FXDQ25M9 |
|-----------------------------|----|-------------------------------------------------|----------|
| FAN MOTOR THERMAL PROTECTOR | °C | OFF:135 <sup>±8</sup> , (ON:87 <sup>±15</sup> ) |          |
| PC BOARD FUSE               |    | 250V 10A                                        |          |

3TW25511-3

# 4 Options

## 4 - 1 Options

4

### FXDQ20-25M9

#### Options

| Nr. | Item                        |
|-----|-----------------------------|
| 1   | Wiring adapter (Hour meter) |

| Type | FXDQ20,25  |
|------|------------|
|      | EKRP1B2 *1 |

#### Operation Control

| Nr. | Item                                                            | Wired type | Wireless type |
|-----|-----------------------------------------------------------------|------------|---------------|
| 1   | Remote                                                          | H/P        | C/O           |
| 2   | Simplified remote control                                       |            |               |
| 3   | Remote control for hotel use                                    |            |               |
| 4   | Adapter for wiring                                              |            |               |
| 5.1 | Wiring adapter for electrical appendices (1)                    |            |               |
| 5.2 | Wiring adapter for electrical appendices (2)                    |            |               |
| 6   | Remote sensor                                                   |            |               |
| 7   | Installation box for adapter PCB                                |            |               |
| 8   | Central remote control                                          |            |               |
| 8.1 | Electrical box with earth terminal (3 blocks)                   |            |               |
| 9   | Unified ON/OFF controller                                       |            |               |
| 9.1 | Electrical box with earth terminal (2 blocks)                   |            |               |
| 9.2 | Noise filter ( For electromagnetic interface use only)          |            |               |
| 10  | Schedule timer                                                  |            |               |
| 11  | External adapter for outdoor unit (installation on indoor unit) |            |               |
| 11  | Multi Tenant option                                             |            |               |

| Type | FXDQ20,25             |
|------|-----------------------|
|      | BRC1D52 / BRC1E51A *4 |
|      | BRC4C62               |
|      | BRC4C64               |
|      | BRC2A51               |
|      | BRC3A61               |
|      | KRP1B61               |
|      | KRP2A51               |
|      | KRP4A51               |
|      | KRCS01-1              |
|      | ---                   |
|      | DCS302C51             |
|      | KJB311A               |
|      | DCS301B51             |
|      | KJB212A               |
|      | KEK26-1A              |
|      | DST301B51             |
|      | DTA104A61             |
|      | EKMTAC *3             |

\*1 Fixing box is KRP1A90

\*2 All options are supplied as kit.

\*3 This kit contains parts to connect with 10 multi tenant indoor units.

\*4 Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian and Turkish.

#### Contents of accessory bags

| Description                       | Quantity |
|-----------------------------------|----------|
| Installation and operation manual | 1        |
| Glass tube fuse 10A               | 1        |
| Service instruction label         | 1        |

3TW31579-1A



# 5 Capacity tables

## 5 - 1 Cooling Capacity Tables

FXDQ-M9

TC: Total Capacity (kW) ; SHC: Sensible heat capacity (kW)

| Unit size | Out door °CDB | Indoor air temp. |     |        |     |        |     |        |     |        |     |        |     |        |     |
|-----------|---------------|------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
|           |               | 14.0WB           |     | 16.0WB |     | 18.0WB |     | 19.0WB |     | 20.0WB |     | 22.0WB |     | 24.0WB |     |
|           |               | 20.0DB           |     | 23.0DB |     | 26.0DB |     | 27.0DB |     | 28.0DB |     | 30.0DB |     | 32.0DB |     |
|           |               | TC               | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC |
| 20        | 10,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,6    | 1,9 | 2,9    | 1,9 |
|           | 12,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,6    | 1,9 | 2,9    | 1,9 |
|           | 14,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,6    | 1,9 | 2,8    | 1,9 |
|           | 16,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,6    | 1,9 | 2,8    | 1,8 |
|           | 18,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,6    | 1,9 | 2,7    | 1,8 |
|           | 20,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,6    | 1,9 | 2,7    | 1,8 |
|           | 21,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,6    | 1,9 | 2,7    | 1,8 |
|           | 23,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,6    | 1,9 | 2,6    | 1,7 |
|           | 25,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,6    | 1,8 | 2,6    | 1,7 |
|           | 27,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,5    | 1,8 | 2,6    | 1,7 |
|           | 29,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,5    | 1,8 | 2,5    | 1,7 |
|           | 31,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,4    | 1,8 | 2,5    | 1,7 |
|           | 33,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,9 | 2,4    | 1,8 | 2,5    | 1,7 |
|           | 35,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,8 | 2,4    | 1,8 | 2,4    | 1,7 |
|           | 37,0          | 1,5              | 1,4 | 1,8    | 1,6 | 2,1    | 1,7 | 2,2    | 1,8 | 2,3    | 1,8 | 2,3    | 1,8 | 2,4    | 1,7 |
| 39,0      | 1,5           | 1,4              | 1,8 | 1,6    | 2,1 | 1,7    | 2,2 | 1,8    | 2,2 | 1,8    | 2,3 | 1,7    | 2,3 | 1,6    |     |
| 25        | 10,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,4    | 2,3 | 3,7    | 2,3 |
|           | 12,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,4    | 2,3 | 3,6    | 2,2 |
|           | 14,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,4    | 2,3 | 3,6    | 2,2 |
|           | 16,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,4    | 2,3 | 3,5    | 2,2 |
|           | 18,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,4    | 2,3 | 3,5    | 2,2 |
|           | 20,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,4    | 2,3 | 3,4    | 2,1 |
|           | 21,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,4    | 2,3 | 3,4    | 2,1 |
|           | 23,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,3    | 2,2 | 3,4    | 2,1 |
|           | 25,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,3    | 2,2 | 3,3    | 2,1 |
|           | 27,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,2    | 2,2 | 3,3    | 2,1 |
|           | 29,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,2    | 2,2 | 3,2    | 2,0 |
|           | 31,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,1    | 2,1 | 3,2    | 2,0 |
|           | 33,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,1    | 2,1 | 3,1    | 2,0 |
|           | 35,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 3,0    | 2,2 | 3,0    | 2,1 | 3,1    | 2,0 |
|           | 37,0          | 1,9              | 1,6 | 2,3    | 1,8 | 2,6    | 2,0 | 2,8    | 2,1 | 2,9    | 2,2 | 3,0    | 2,1 | 3,0    | 2,0 |
| 39,0      | 1,9           | 1,6              | 2,3 | 1,8    | 2,6 | 2,0    | 2,8 | 2,1    | 2,9 | 2,2    | 2,9 | 2,1    | 3,0 | 2,0    |     |

# 5 Capacity tables

## 5 - 2 Heating Capacity Tables

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### FXDQ-M9

| Unit Size | Nominal capacity | Outdoor air temperature |       | Indoor air temperature °CDB |      |      |      |      |      |
|-----------|------------------|-------------------------|-------|-----------------------------|------|------|------|------|------|
|           |                  |                         |       | 16.0                        | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
|           |                  | °CDB                    | °CWB  | kW                          | kW   | kW   | kW   | kW   | kW   |
| 20        | 2.5              | -19.8                   | -20.0 | 1.5                         | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
|           |                  | -18.8                   | -19.0 | 1.5                         | 1.5  | 1.5  | 1.5  | 1.5  | 1.5  |
|           |                  | -16.7                   | -17.0 | 1.6                         | 1.6  | 1.6  | 1.6  | 1.6  | 1.6  |
|           |                  | -14.7                   | -15.0 | 1.7                         | 1.7  | 1.7  | 1.7  | 1.7  | 1.7  |
|           |                  | -12.6                   | -13.0 | 1.8                         | 1.8  | 1.8  | 1.8  | 1.8  | 1.8  |
|           |                  | -10.5                   | -11.0 | 1.9                         | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  |
|           |                  | -9.5                    | -10.0 | 1.9                         | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  |
|           |                  | -8.5                    | -9.1  | 2.0                         | 2.0  | 1.9  | 1.9  | 1.9  | 1.9  |
|           |                  | -7.0                    | -7.6  | 2.0                         | 2.0  | 2.0  | 2.0  | 2.0  | 2.0  |
|           |                  | -5.0                    | -5.6  | 2.1                         | 2.1  | 2.1  | 2.1  | 2.1  | 2.1  |
|           |                  | -3.0                    | -3.7  | 2.2                         | 2.2  | 2.2  | 2.2  | 2.2  | 2.2  |
|           |                  | 0.0                     | -0.7  | 2.3                         | 2.3  | 2.3  | 2.3  | 2.3  | 2.2  |
|           |                  | 3.0                     | 2.2   | 2.5                         | 2.5  | 2.4  | 2.4  | 2.3  | 2.2  |
|           |                  | 5.0                     | 4.1   | 2.5                         | 2.5  | 2.5  | 2.4  | 2.3  | 2.2  |
|           |                  | 7.0                     | 6.0   | 2.6                         | 2.6  | 2.5  | 2.4  | 2.3  | 2.2  |
|           |                  | 9.0                     | 7.9   | 2.7                         | 2.7  | 2.5  | 2.4  | 2.3  | 2.2  |
|           |                  | 11.0                    | 9.8   | 2.8                         | 2.7  | 2.5  | 2.4  | 2.3  | 2.2  |
| 13.0      | 11.8             | 2.8                     | 2.7   | 2.5                         | 2.4  | 2.3  | 2.2  |      |      |
| 15.0      | 13.7             | 2.8                     | 2.7   | 2.5                         | 2.4  | 2.3  | 2.2  |      |      |
| 25        | 3.2              | -19.8                   | -20.0 | 1.9                         | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  |
|           |                  | -18.8                   | -19.0 | 1.9                         | 1.9  | 1.9  | 1.9  | 1.9  | 1.9  |
|           |                  | -16.7                   | -17.0 | 2.1                         | 2.1  | 2.0  | 2.0  | 2.0  | 2.0  |
|           |                  | -14.7                   | -15.0 | 2.2                         | 2.2  | 2.2  | 2.2  | 2.2  | 2.1  |
|           |                  | -12.6                   | -13.0 | 2.3                         | 2.3  | 2.3  | 2.3  | 2.3  | 2.3  |
|           |                  | -10.5                   | -11.0 | 2.4                         | 2.4  | 2.4  | 2.4  | 2.4  | 2.4  |
|           |                  | -9.5                    | -10.0 | 2.5                         | 2.4  | 2.4  | 2.4  | 2.4  | 2.4  |
|           |                  | -8.5                    | -9.1  | 2.5                         | 2.5  | 2.5  | 2.5  | 2.5  | 2.5  |
|           |                  | -7.0                    | -7.6  | 2.6                         | 2.6  | 2.6  | 2.6  | 2.6  | 2.6  |
|           |                  | -5.0                    | -5.6  | 2.7                         | 2.7  | 2.7  | 2.7  | 2.7  | 2.7  |
|           |                  | -3.0                    | -3.7  | 2.8                         | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  |
|           |                  | 0.0                     | -0.7  | 3.0                         | 3.0  | 3.0  | 3.0  | 3.0  | 2.8  |
|           |                  | 3.0                     | 2.2   | 3.1                         | 3.1  | 3.1  | 3.1  | 3.0  | 2.8  |
|           |                  | 5.0                     | 4.1   | 3.3                         | 3.2  | 3.2  | 3.1  | 3.0  | 2.8  |
|           |                  | 7.0                     | 6.0   | 3.4                         | 3.4  | 3.2  | 3.1  | 3.0  | 2.8  |
|           |                  | 9.0                     | 7.9   | 3.5                         | 3.4  | 3.2  | 3.1  | 3.0  | 2.8  |
|           |                  | 11.0                    | 9.8   | 3.6                         | 3.4  | 3.2  | 3.1  | 3.0  | 2.8  |
| 13.0      | 11.8             | 3.6                     | 3.4   | 3.2                         | 3.1  | 3.0  | 2.6  |      |      |
| 15.0      | 13.7             | 3.6                     | 3.4   | 3.2                         | 3.1  | 3.0  | 2.8  |      |      |

3TW25512-2B

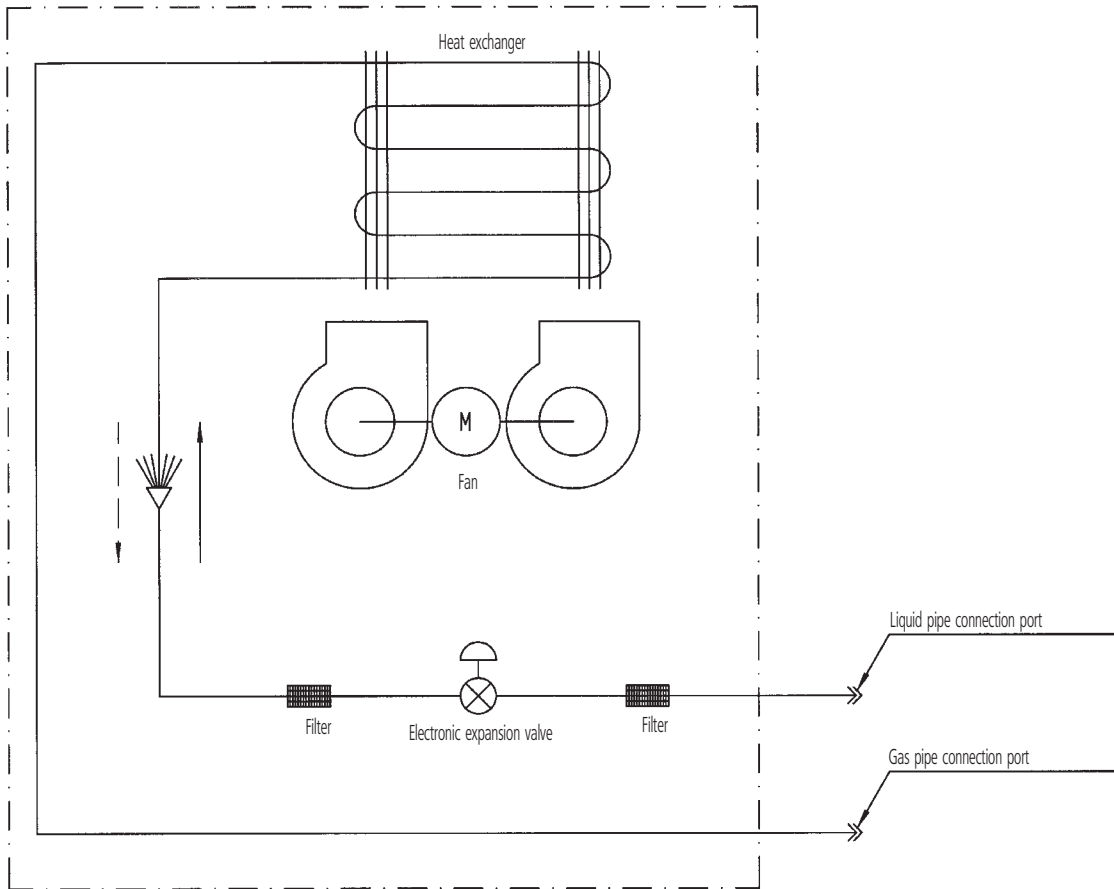


# 7 Piping diagrams

## 7 - 1 Piping Diagrams

7

FXDQ-M9



Refrigerant flow



Piping connection diameters

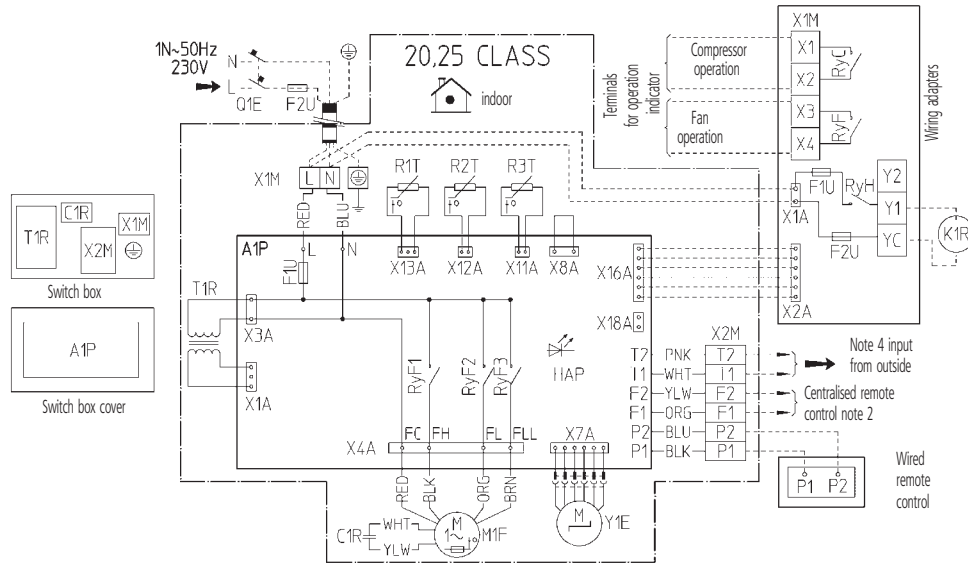
| Model       | Gas   | Liquid |
|-------------|-------|--------|
| FXDQ20,25M9 | ø12.7 | ø6.4   |

3TW21175-1C

# 8 Wiring diagrams

## 8 - 1 Wiring Diagrams - Single Phase

FXDQ-M9



|          |                                              |                |                            |          |                                                      |
|----------|----------------------------------------------|----------------|----------------------------|----------|------------------------------------------------------|
| A1P      | Printed circuit board                        | RyF1-3         | Magnetic relay (Fan)       | RyC, RyF | Magnetic relay                                       |
| C1R      | Capacitor (Fan)                              | T1R            | Transformer (220-240V/22V) | RyH      | Magnetic relay (J1EH)                                |
| F1U      | Fuse (250V, 10A)                             | X1M            | Terminal strip (Power)     | F1U, F2U | Fuse (250V, 5A)                                      |
| F2U      | Field fuse                                   | X2M            | Terminal strip (Control)   | X1A, X2A | Connector (Wiring adapter)                           |
| HAP      | Light emitting diode (Service monitor-green) | Y1E            | Electronic expansion valve | X1M      | Terminal strip                                       |
| M1F      | Motor (Fan)                                  | Optional parts |                            |          | Connector for optional parts                         |
| Q1E      | Earth leak detector                          | J1EH           | Electric heater            | X16A     | Connector (Wiring adapter)                           |
| R1T      | Thermistor (Air)                             | K1R            | Magnetic relay (J1EH)      | X18A     | Connector (Wiring adapter for electrical appendices) |
| R2T, R3T | Thermistor (Refrigerant)                     | Wiring adapter |                            |          |                                                      |

: Field wiring  
 L : Live  
 N : Neutral  
 : Connector  
 : Wire clamp  
 : Protective earth (screw)

COLORS : BLK : Black      PNK : Pink  
           BLU : Blue        RED : Red  
           BRN : Brown      WHT : White  
           ORG : Orange     YLW : Yellow

### NOTES

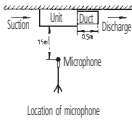
- Use copper conductors only.
- When using a centralised remote control, see manual for connection to the unit.
- When installing the electric heater change the wiring for the heater circuit. The main power supply has to be supplied independently.
- When connecting the input wires from the outdoor unit 'forced off' or 'on/off' operation can be selected by the remote control. For more details see installation manual.

2TW23666-1E

## 9 Sound data

### 9 - 1 Sound Level Data

#### FXDQ-M9

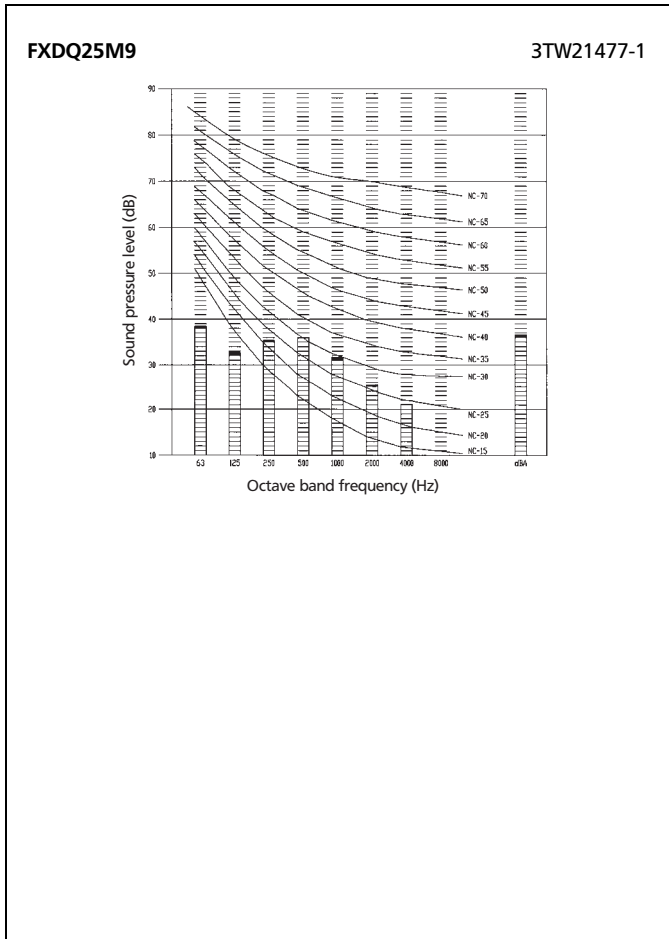
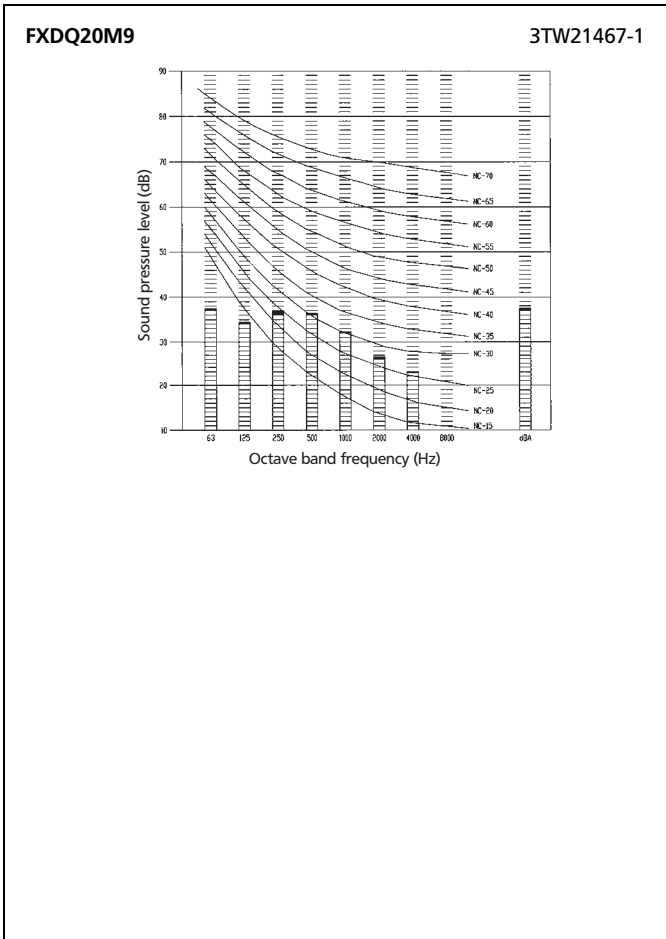
| Model    | Sound pressure level - 230V |    | Measuring location<br> | Sound power level |
|----------|-----------------------------|----|---------------------------------------------------------------------------------------------------------|-------------------|
|          | H                           | L  |                                                                                                         |                   |
| FXDQ20M9 | 37                          | 32 |                                                                                                         | 50                |
| FXDQ25M9 | 37                          | 32 |                                                                                                         | 50                |

#### NOTES

- 1 dBA = A-weighted sound pressure level (A-scale according to IEC).
- 2 Reference acoustic pressure 0 dB = 20 Pa.
- 3 These operating values were obtained using a power source of 230V/50Hz.
- 4 These operating values were obtained in a dead room (conversion values). Noise values will vary depending on a range of factors such as the construction of the particular room in which the equipment is installed.
- 5 Operating noise differs with operation and ambient conditions.

# 9 Sound data

## 9 - 2 Sound Pressure Spectrum





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.



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