

# technical data

Concealed floor standing unit  
FXNQ-MAVE

air conditioning systems

**VRV<sup>®</sup> III-S**

**VRV<sup>®</sup> III**

**VRV<sup>®</sup> II**

**VRV<sup>®</sup>-WII**

# TABLE OF CONTENTS

## FXNQ-MAVE

|    |                                               |    |
|----|-----------------------------------------------|----|
| 1  | Specifications .....                          | 2  |
|    | Technical Specifications .....                | 2  |
|    | Electrical Specifications .....               | 3  |
| 2  | Safety device settings .....                  | 4  |
| 3  | Options .....                                 | 5  |
| 4  | Control systems .....                         | 6  |
| 5  | Capacity tables .....                         | 7  |
|    | Cooling capacity tables .....                 | 7  |
|    | Heating capacity tables .....                 | 9  |
| 6  | Dimensional drawing & centre of gravity ..... | 11 |
|    | Dimensional drawing .....                     | 11 |
|    | Centre of gravity .....                       | 13 |
| 7  | Piping diagram.....                           | 14 |
| 8  | Wiring diagram.....                           | 15 |
|    | Wiring diagram .....                          | 15 |
| 9  | Sound data.....                               | 16 |
|    | Sound pressure spectrum .....                 | 16 |
| 10 | Installation.....                             | 18 |
|    | Suspension bolt pitch position .....          | 18 |
|    | Service space .....                           | 19 |

# 1 Specifications

| 1-1 TECHNICAL SPECIFICATIONS |                      |               |        | FXNQ20MAVE                                                                                                                                                        | FXNQ25MAVE | FXNQ32MAVE | FXNQ40MAVE | FXNQ50MAVE | FXNQ63MAVE |
|------------------------------|----------------------|---------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|------------|
| Nominal Capacity             | Cooling              | kW            |        | 2.20                                                                                                                                                              | 2.80       | 3.60       | 4.50       | 5.60       | 7.10       |
|                              | Heating              | kW            |        | 2.50                                                                                                                                                              | 3.20       | 4.00       | 5.00       | 6.30       | 8.00       |
| Power input (Nominal)        | Cooling              | kW            |        | 0.049                                                                                                                                                             | 0.049      | 0.090      | 0.090      | 0.110      | 0.110      |
|                              | Heating              | kW            |        | 0.049                                                                                                                                                             | 0.049      | 0.090      | 0.090      | 0.110      | 0.110      |
| Casing                       | Material             |               |        | Galvanised steel                                                                                                                                                  |            |            |            |            |            |
| Dimensions                   | Unit                 | Height        | mm     | 610                                                                                                                                                               | 610        | 610        | 610        | 610        | 610        |
|                              |                      | Width         | mm     | 930                                                                                                                                                               | 930        | 1070       | 1070       | 1350       | 1350       |
|                              |                      | Depth         | mm     | 220                                                                                                                                                               | 220        | 220        | 220        | 220        | 220        |
| Weight                       | Unit                 |               | kg     | 19                                                                                                                                                                | 19         | 23         | 23         | 27         | 27         |
| Heat Exchanger               | Dimensions           | Nr of Rows    |        | 3                                                                                                                                                                 | 3          | 3          | 3          | 3          | 3          |
|                              |                      | Fin Pitch     | mm     | 1.50                                                                                                                                                              | 1.50       | 1.50       | 1.50       | 1.50       | 1.50       |
|                              |                      | Face Area     | m²     | 0.159                                                                                                                                                             | 0.159      | 0.200      | 0.200      | 0.282      | 0.282      |
|                              |                      | Nr of Stages  |        | 14                                                                                                                                                                | 14         | 14         | 14         | 14         | 14         |
| Fan                          | Type                 |               |        | Sirocco fan                                                                                                                                                       |            |            |            |            |            |
|                              | Quantity             |               |        | 1                                                                                                                                                                 | 1          | 1          | 1          | 1          | 1          |
| Air Flow Rate                | Cooling              | High          | m³/min | 7.00                                                                                                                                                              | 7.00       | 8.00       | 11.00      | 14.00      | 16.00      |
|                              |                      | Low           | m³/min | 6.00                                                                                                                                                              | 6.00       | 6.00       | 8.50       | 11.00      | 12.00      |
| Fan                          | Motor                | Quantity      |        | 1                                                                                                                                                                 | 1          | 1          | 1          | 1          | 1          |
|                              |                      | Model         |        | D14B20                                                                                                                                                            | D14B20     | 2D14B13    | 2D14B13    | 2D14B20    | 2D14B20    |
|                              |                      | Output (high) | W      | 15                                                                                                                                                                | 15         | 25         | 25         | 35         | 35         |
|                              |                      | Drive         |        | Direct drive                                                                                                                                                      |            |            |            |            |            |
| Refrigerant                  | Name                 |               |        | R-410A                                                                                                                                                            |            |            |            |            |            |
| Cooling                      | Sound Pressure       | High          | dBA    | 35.0                                                                                                                                                              | 35.0       | 35.0       | 38.0       | 39.0       | 40.0       |
|                              |                      | Low           | dBA    | 32.0                                                                                                                                                              | 32.0       | 32.0       | 33.0       | 34.0       | 35.0       |
| Piping connections           | Liquid (OD)          | Type          |        | Flare connection                                                                                                                                                  |            |            |            |            |            |
|                              |                      | Diameter      | mm     | 6.4                                                                                                                                                               | 6.4        | 6.4        | 6.4        | 6.4        | 9.5        |
|                              | Gas                  | Type          |        | Flare connection                                                                                                                                                  |            |            |            |            |            |
|                              |                      | Diameter      | mm     | 12.7                                                                                                                                                              | 12.7       | 12.7       | 12.7       | 12.7       | 15.9       |
|                              | Drain                | Diameter      | mm     | O.D. 21                                                                                                                                                           |            |            |            |            |            |
|                              | Heat Insulation      |               |        | Glass Fiber/Urethane Foam                                                                                                                                         |            |            |            |            |            |
| Air Filter                   |                      |               |        | Resin net with mold resistance                                                                                                                                    |            |            |            |            |            |
| Refrigerant control          |                      |               |        | Electronic expansion valve                                                                                                                                        |            |            |            |            |            |
| Temperature control          |                      |               |        | Microprocessor thermostat for cooling and heating                                                                                                                 |            |            |            |            |            |
| Safety devices               |                      |               |        | PC board fuse                                                                                                                                                     |            |            |            |            |            |
|                              |                      |               |        | Fan motor thermal protector                                                                                                                                       |            |            |            |            |            |
| Standard Accessories         | Standard Accessories |               |        | Installation and operation manual                                                                                                                                 |            |            |            |            |            |
|                              |                      |               |        | Insulation for fitting                                                                                                                                            |            |            |            |            |            |
|                              |                      |               |        | Drain hose                                                                                                                                                        |            |            |            |            |            |
|                              |                      |               |        | Clamps                                                                                                                                                            |            |            |            |            |            |
|                              |                      |               |        | Screws                                                                                                                                                            |            |            |            |            |            |
|                              |                      |               |        | Washer                                                                                                                                                            |            |            |            |            |            |
|                              |                      |               |        | Level adjustment screw                                                                                                                                            |            |            |            |            |            |
|                              |                      |               |        |                                                                                                                                                                   |            |            |            |            |            |
| Notes                        |                      |               |        | Nominal cooling capacities are based on : indoor temperature : 27° CDB, 19° CWB, outdoor temperature : 35° CDB, equivalent refrigerant piping : 7.5m (horizontal) |            |            |            |            |            |
|                              |                      |               |        | Nominal heating capacities are based on : indoor temperature : 20° CDB, outdoor temperature : 7° CDB, 6° CWB, equivalent refrigerant piping : 7.5m (horizontal)   |            |            |            |            |            |
|                              |                      |               |        | Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.                                                        |            |            |            |            |            |
|                              |                      |               |        | Sound pressure levels are measured at 220V                                                                                                                        |            |            |            |            |            |

# 1 Specifications

| 1-2 ELECTRICAL SPECIFICATIONS |                            |    | FXNQ20MAVE                                                                                                                                                                                                                | FXNQ25MAVE | FXNQ32MAVE | FXNQ40MAVE | FXNQ50MAVE | FXNQ63MAVE |
|-------------------------------|----------------------------|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|------------|
| Power Supply                  | Name                       |    | VE                                                                                                                                                                                                                        |            |            |            |            |            |
|                               | Phase                      |    | 1                                                                                                                                                                                                                         | 1          | 1          | 1          | 1          | 1          |
|                               | Frequency                  | Hz | 50                                                                                                                                                                                                                        | 50         | 50         | 50         | 50         | 50         |
|                               | Voltage                    | V  | 220-240                                                                                                                                                                                                                   |            |            |            |            |            |
| Current                       | Minimum circuit amps (MCA) | A  | 0.30                                                                                                                                                                                                                      | 0.30       | 0.60       | 0.60       | 0.60       | 0.60       |
|                               | Maximum fuse amps (MFA)    | A  | 15.00                                                                                                                                                                                                                     | 15.00      | 15.00      | 15.00      | 15.00      | 15.00      |
|                               | Full load amps (FLA)       | A  | 0.20                                                                                                                                                                                                                      | 0.20       | 0.50       | 0.50       | 0.50       | 0.50       |
| Voltage range                 | Minimum                    | V  | -10%                                                                                                                                                                                                                      |            |            |            |            |            |
|                               | Maximum                    | V  | +10%                                                                                                                                                                                                                      |            |            |            |            |            |
| Notes                         |                            |    | Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.                                                                      |            |            |            |            |            |
|                               |                            |    | Maximum allowable voltage range variation between phases is 2%.                                                                                                                                                           |            |            |            |            |            |
|                               |                            |    | MCA/MFA : MCA = 1.25 x FLA                                                                                                                                                                                                |            |            |            |            |            |
|                               |                            |    | MFA ≤ 4 x FLA                                                                                                                                                                                                             |            |            |            |            |            |
|                               |                            |    | next lower standard fuse rating minimum 15A                                                                                                                                                                               |            |            |            |            |            |
|                               |                            |    | select wire size based on the MCA                                                                                                                                                                                         |            |            |            |            |            |
|                               |                            |    | instead of a fuse, use a circuit breaker                                                                                                                                                                                  |            |            |            |            |            |
|                               |                            |    | For more details concerning conditional connections, see <a href="http://extranet.daikineurope.com">http://extranet.daikineurope.com</a> , select "E-Data Books".<br>Finally, click on the document title of your choice. |            |            |            |            |            |

## 2 Safety device settings

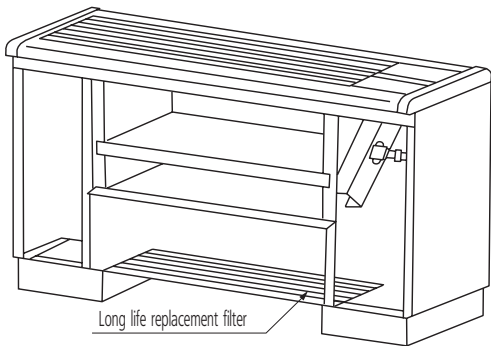
|                             |    | FXNQ20MA                                  | FXNQ25MA | FXNQ32MA | FXNQ40MA | FXNQ50MA | FXNQ63MA |
|-----------------------------|----|-------------------------------------------|----------|----------|----------|----------|----------|
| PC BOARD FUSE               |    | 250V 10A                                  |          |          |          |          |          |
| FAN MOTOR THERMAL PROTECTOR | °C | OFF: 135 <sup>±10</sup> / ON: 120 or less |          |          |          |          |          |
|                             |    | 3D034529C                                 |          |          |          |          |          |

2

3 Options

|                              | FXNQ20MA   | FXNQ25MA | FXNQ32MA   | FXNQ40MA | FXNQ50MA   | FXNQ63MA |
|------------------------------|------------|----------|------------|----------|------------|----------|
| LONG LIFE REPLACEMENT FILTER | KAFJ361K28 |          | KAFJ361K45 |          | KAFJ361K71 |          |

4D034574B



## 4 Control systems

### Individual control systems

|                              |              | FXNQ20MA | FXNQ25MA | FXNQ32MA | FXNQ40MA | FXNQ50MA | FXNQ63MA |
|------------------------------|--------------|----------|----------|----------|----------|----------|----------|
| WIRED REMOTE CONTROL         |              |          |          |          | BRC1D52  |          |          |
| INFRARED REMOTE CONTROL      | Heat pump    |          |          |          | BRC4C62  |          |          |
|                              | Cooling only |          |          |          | BRC4C64  |          |          |
| SIMPLIFIED REMOTE CONTROL    |              |          |          |          | BRC2A51  |          |          |
| REMOTE CONTROL FOR HOTEL USE |              |          |          |          | BRC3A61  |          |          |

### Centralised control systems

|                            |  | FXNQ20MA | FXNQ25MA | FXNQ32MA | FXNQ40MA  | FXNQ50MA | FXNQ63MA |
|----------------------------|--|----------|----------|----------|-----------|----------|----------|
| CENTRALISED REMOTE CONTROL |  |          |          |          | DCS302C51 |          |          |
| UNIFIED ON/OFF CONTROL     |  |          |          |          | DCS301C51 |          |          |
| SCHEDULE TIMER             |  |          |          |          | DST301C51 |          |          |

### Others

|                                                                          |  | FXNQ20MA | FXNQ25MA | FXNQ32MA | FXNQ40MA  | FXNQ50MA | FXNQ63MA |
|--------------------------------------------------------------------------|--|----------|----------|----------|-----------|----------|----------|
| WIRING ADAPTER                                                           |  |          |          |          | KRP1B61   |          |          |
| WIRING ADAPTER FOR ELECTRICAL APPENDICES (1)                             |  |          |          |          | KRP2A51   |          |          |
| WIRING ADAPTER FOR ELECTRICAL APPENDICES (2)                             |  |          |          |          | KRP4A51   |          |          |
| REMOTE SENSOR                                                            |  |          |          |          | KRCS01-1  |          |          |
| ELECTRICAL BOX WITH EARTH TERMINAL (3 BLOCKS)                            |  |          |          |          | KJB311A   |          |          |
| ELECTRICAL BOX WITH EARTH TERMINAL (2 BLOCKS)                            |  |          |          |          | KJB212A   |          |          |
| NOISE FILTER (FOR ELECTROMAGNETIC INTERFACE USE ONLY)                    |  |          |          |          | KEK26-1A  |          |          |
| EXTERNAL CONTROL ADAPTER FOR OUTDOOR UNITS (INSTALLATION ON INDOOR UNIT) |  |          |          |          | DTA104A61 |          |          |

4D034581A

## 5 Capacity tables

### 5 - 1 Cooling capacity tables

| FXNQ-MA                                           |                  |                   |                        |     |        |     |        |     |        |     |        |     |        |     |        |     |
|---------------------------------------------------|------------------|-------------------|------------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
| TC: Total capacity;kW - SHC: Sensible capacity;kW |                  |                   |                        |     |        |     |        |     |        |     |        |     |        |     |        |     |
| Unit size                                         | Nominal capacity | Outdoor air temp. | Indoor air temperature |     |        |     |        |     |        |     |        |     |        |     |        |     |
|                                                   |                  |                   | 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 |     |
|                                                   |                  | °CDB              | TC                     | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC |
| 20                                                | 2.2              | 10.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.6    | 1.8 | 2.9    | 1.8 |
|                                                   |                  | 12.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.6    | 1.8 | 2.9    | 1.7 |
|                                                   |                  | 14.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.6    | 1.8 | 2.8    | 1.7 |
|                                                   |                  | 16.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.6    | 1.8 | 2.8    | 1.7 |
|                                                   |                  | 18.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.6    | 1.8 | 2.7    | 1.7 |
|                                                   |                  | 20.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.6    | 1.8 | 2.7    | 1.6 |
|                                                   |                  | 21.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.6    | 1.8 | 2.7    | 1.6 |
|                                                   |                  | 23.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.6    | 1.8 | 2.6    | 1.6 |
|                                                   |                  | 25.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.6    | 1.7 | 2.6    | 1.6 |
|                                                   |                  | 27.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.5    | 1.7 | 2.6    | 1.6 |
|                                                   |                  | 29.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.5    | 1.7 | 2.5    | 1.6 |
|                                                   |                  | 31.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.4    | 1.7 | 2.5    | 1.6 |
|                                                   |                  | 33.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.8 | 2.4    | 1.7 | 2.5    | 1.6 |
|                                                   |                  | 35.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.7 | 2.4    | 1.6 | 2.4    | 1.5 |
|                                                   |                  | 37.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.3    | 1.7 | 2.3    | 1.6 | 2.4    | 1.6 |
|                                                   |                  | 39.0              | 1.5                    | 1.3 | 1.8    | 1.5 | 2.1    | 1.7 | 2.2    | 1.7 | 2.2    | 1.7 | 2.3    | 1.6 | 2.3    | 1.5 |
| 25                                                | 2.8              | 10.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.4    | 2.1 | 3.7    | 2.1 |
|                                                   |                  | 12.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.4    | 2.1 | 3.6    | 2.1 |
|                                                   |                  | 14.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.4    | 2.1 | 3.6    | 2.1 |
|                                                   |                  | 16.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.4    | 2.1 | 3.5    | 2.1 |
|                                                   |                  | 18.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.4    | 2.1 | 3.5    | 2.0 |
|                                                   |                  | 20.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.4    | 2.1 | 3.4    | 2.0 |
|                                                   |                  | 21.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.4    | 2.1 | 3.4    | 2.0 |
|                                                   |                  | 23.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.3    | 2.1 | 3.4    | 2.0 |
|                                                   |                  | 25.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.3    | 2.1 | 3.3    | 2.0 |
|                                                   |                  | 27.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.2    | 2.1 | 3.3    | 1.9 |
|                                                   |                  | 29.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.2    | 2.0 | 3.2    | 1.9 |
|                                                   |                  | 31.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.1    | 2.0 | 3.2    | 1.9 |
|                                                   |                  | 33.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.1    | 2.0 | 3.1    | 1.9 |
|                                                   |                  | 35.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 3.0    | 2.1 | 3.0    | 2.0 | 3.1    | 1.9 |
|                                                   |                  | 37.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 2.9    | 2.0 | 3.0    | 2.0 | 3.0    | 1.9 |
|                                                   |                  | 39.0              | 1.9                    | 1.6 | 2.3    | 1.8 | 2.6    | 2.0 | 2.8    | 2.1 | 2.9    | 2.0 | 2.9    | 2.0 | 3.0    | 1.9 |
| 32                                                | 3.6              | 10.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.3    | 2.6 | 4.7    | 2.6 |
|                                                   |                  | 12.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.3    | 2.6 | 4.7    | 2.6 |
|                                                   |                  | 14.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.3    | 2.6 | 4.6    | 2.6 |
|                                                   |                  | 16.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.3    | 2.6 | 4.6    | 2.5 |
|                                                   |                  | 18.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.3    | 2.6 | 4.5    | 2.5 |
|                                                   |                  | 20.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.3    | 2.6 | 4.4    | 2.5 |
|                                                   |                  | 21.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.3    | 2.6 | 4.4    | 2.5 |
|                                                   |                  | 23.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.2    | 2.6 | 4.3    | 2.4 |
|                                                   |                  | 25.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.2    | 2.6 | 4.3    | 2.4 |
|                                                   |                  | 27.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.1    | 2.5 | 4.2    | 2.4 |
|                                                   |                  | 29.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.1    | 2.5 | 4.2    | 2.4 |
|                                                   |                  | 31.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 4.0    | 2.5 | 4.1    | 2.4 |
|                                                   |                  | 33.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.6 | 3.9    | 2.4 | 4.0    | 2.3 |
|                                                   |                  | 35.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.8    | 2.5 | 3.9    | 2.4 | 4.0    | 2.3 |
|                                                   |                  | 37.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.5 | 3.7    | 2.5 | 3.8    | 2.4 | 3.9    | 2.3 |
|                                                   |                  | 39.0              | 2.4                    | 2.1 | 2.9    | 2.2 | 3.4    | 2.5 | 3.6    | 2.6 | 3.7    | 2.5 | 3.8    | 2.4 | 3.8    | 2.3 |
| 40                                                | 4.5              | 10.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.4    | 3.3 | 5.9    | 3.3 |
|                                                   |                  | 12.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.4    | 3.3 | 5.8    | 3.3 |
|                                                   |                  | 14.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.4    | 3.3 | 5.8    | 3.2 |
|                                                   |                  | 16.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.4    | 3.3 | 5.7    | 3.2 |
|                                                   |                  | 18.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.4    | 3.3 | 5.6    | 3.1 |
|                                                   |                  | 20.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.4    | 3.3 | 5.5    | 3.1 |
|                                                   |                  | 21.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.4    | 3.3 | 5.5    | 3.1 |
|                                                   |                  | 23.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.3    | 3.2 | 5.4    | 3.0 |
|                                                   |                  | 25.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.2    | 3.2 | 5.3    | 3.0 |
|                                                   |                  | 27.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.2    | 3.1 | 5.3    | 3.0 |
|                                                   |                  | 29.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.1    | 3.1 | 5.2    | 3.0 |
|                                                   |                  | 31.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 5.0    | 3.1 | 5.1    | 2.9 |
|                                                   |                  | 33.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.8    | 3.2 | 4.9    | 3.0 | 5.0    | 2.9 |
|                                                   |                  | 35.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.7    | 3.2 | 4.9    | 3.1 | 5.0    | 2.9 |
|                                                   |                  | 37.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.1 | 4.7    | 3.2 | 4.8    | 3.0 | 4.9    | 2.8 |
|                                                   |                  | 39.0              | 3.0                    | 2.5 | 3.6    | 2.7 | 4.2    | 3.1 | 4.5    | 3.2 | 4.6    | 3.1 | 4.7    | 3.0 | 4.8    | 2.8 |

CA03A095



## 5 Capacity tables

### 5 - 1 Cooling capacity tables

#### FXNQ-MA

TC: Total capacity; kW - SHC: Sensible capacity; kW

| Unit size | Nominal capacity | Outdoor air temp. | Indoor air temperature |     |        |     |        |     |        |     |        |     |        |     |        |     |
|-----------|------------------|-------------------|------------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
|           |                  |                   | 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 |     |
|           |                  | °CDB              | TC                     | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC |
| 50        | 5.6              | 10.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.7    | 4.1 | 7.4    | 4.1 |
|           |                  | 12.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.7    | 4.1 | 7.3    | 4.1 |
|           |                  | 14.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.7    | 4.1 | 7.2    | 4.0 |
|           |                  | 16.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.7    | 4.1 | 7.1    | 4.0 |
|           |                  | 18.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.7    | 4.1 | 7.0    | 3.9 |
|           |                  | 20.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.7    | 4.1 | 6.9    | 3.9 |
|           |                  | 21.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.7    | 4.1 | 6.8    | 3.8 |
|           |                  | 23.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.6    | 4.0 | 6.7    | 3.8 |
|           |                  | 25.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.5    | 4.0 | 6.6    | 3.7 |
|           |                  | 27.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.4    | 3.9 | 6.6    | 3.7 |
|           |                  | 29.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.3    | 3.9 | 6.5    | 3.7 |
|           |                  | 31.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.2    | 3.8 | 6.4    | 3.7 |
|           |                  | 33.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 6.0    | 4.0 | 6.1    | 3.8 | 6.3    | 3.6 |
|           |                  | 35.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 5.9    | 4.0 | 6.0    | 3.8 | 6.2    | 3.6 |
|           |                  | 37.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 5.8    | 3.9 | 5.9    | 3.7 | 6.1    | 3.6 |
|           |                  | 39.0              | 3.8                    | 3.0 | 4.5    | 3.4 | 5.2    | 3.8 | 5.6    | 3.9 | 5.7    | 3.9 | 5.8    | 3.7 | 6.0    | 3.5 |
| 63        | 7.1              | 10.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 8.5    | 5.1 | 9.3    | 5.0 |
|           |                  | 12.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 8.5    | 5.1 | 9.2    | 5.0 |
|           |                  | 14.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 8.5    | 5.1 | 9.1    | 4.9 |
|           |                  | 16.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 8.5    | 5.1 | 9.0    | 4.8 |
|           |                  | 18.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 8.5    | 5.1 | 8.8    | 4.8 |
|           |                  | 20.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 8.5    | 5.1 | 8.7    | 4.7 |
|           |                  | 21.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 8.5    | 5.1 | 8.7    | 4.7 |
|           |                  | 23.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 8.4    | 5.0 | 8.5    | 4.6 |
|           |                  | 25.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 8.3    | 5.0 | 8.4    | 4.5 |
|           |                  | 27.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 8.1    | 4.9 | 8.3    | 4.5 |
|           |                  | 29.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 8.0    | 4.8 | 8.2    | 4.5 |
|           |                  | 31.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 7.9    | 4.7 | 8.1    | 4.4 |
|           |                  | 33.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.6    | 5.0 | 7.8    | 4.7 | 7.9    | 4.4 |
|           |                  | 35.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.5    | 4.9 | 7.7    | 4.7 | 7.8    | 4.3 |
|           |                  | 37.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.4    | 4.9 | 7.5    | 4.6 | 7.7    | 4.2 |
|           |                  | 39.0              | 4.8                    | 3.7 | 5.7    | 4.2 | 6.6    | 4.8 | 7.1    | 4.9 | 7.2    | 4.8 | 7.4    | 4.6 | 7.6    | 4.2 |

CA03A095

## 5 Capacity tables

### 5 - 2 Heating capacity tables

| FXNQ-MA   |                  |                         |       |                             |      |      |      |      |      |
|-----------|------------------|-------------------------|-------|-----------------------------|------|------|------|------|------|
| 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  | 2.8  |
|           |                  | 15.0                    | 13.7  | 3.6                         | 3.4  | 3.2  | 3.1  | 3.0  | 2.8  |
| 32        | 4.0              | -19.8                   | -20.0 | 2.4                         | 2.4  | 2.3  | 2.3  | 2.3  | 2.3  |
|           |                  | -18.8                   | -19.0 | 2.4                         | 2.4  | 2.4  | 2.4  | 2.4  | 2.4  |
|           |                  | -16.7                   | -17.0 | 2.6                         | 2.6  | 2.6  | 2.6  | 2.6  | 2.5  |
|           |                  | -14.7                   | -15.0 | 2.7                         | 2.7  | 2.7  | 2.7  | 2.7  | 2.7  |
|           |                  | -12.6                   | -13.0 | 2.9                         | 2.8  | 2.8  | 2.8  | 2.8  | 2.8  |
|           |                  | -10.5                   | -11.0 | 3.0                         | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
|           |                  | -9.5                    | -10.0 | 3.1                         | 3.1  | 3.1  | 3.1  | 3.0  | 3.0  |
|           |                  | -8.5                    | -9.1  | 3.1                         | 3.1  | 3.1  | 3.1  | 3.1  | 3.1  |
|           |                  | -7.0                    | -7.6  | 3.2                         | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  |
|           |                  | -5.0                    | -5.6  | 3.4                         | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  |
|           |                  | -3.0                    | -3.7  | 3.5                         | 3.5  | 3.5  | 3.5  | 3.5  | 3.5  |
|           |                  | 0.0                     | -0.7  | 3.7                         | 3.7  | 3.7  | 3.7  | 3.7  | 3.5  |
|           |                  | 3.0                     | 2.2   | 3.9                         | 3.9  | 3.9  | 3.9  | 3.7  | 3.5  |
|           |                  | 5.0                     | 4.1   | 4.1                         | 4.1  | 4.0  | 3.9  | 3.7  | 3.5  |
|           |                  | 7.0                     | 6.0   | 4.2                         | 4.2  | 4.0  | 3.9  | 3.7  | 3.5  |
|           |                  | 9.0                     | 7.9   | 4.3                         | 4.3  | 4.0  | 3.9  | 3.7  | 3.5  |
|           |                  | 11.0                    | 9.8   | 4.5                         | 4.3  | 4.0  | 3.9  | 3.7  | 3.5  |
|           |                  | 13.0                    | 11.8  | 4.5                         | 4.3  | 4.0  | 3.9  | 3.7  | 3.5  |
|           |                  | 15.0                    | 13.7  | 4.5                         | 4.3  | 4.0  | 3.9  | 3.7  | 3.5  |
| 40        | 5.0              | -19.8                   | -20.0 | 3.0                         | 2.9  | 2.9  | 2.9  | 2.9  | 2.9  |
|           |                  | -18.8                   | -19.0 | 3.0                         | 3.0  | 3.0  | 3.0  | 3.0  | 3.0  |
|           |                  | -16.7                   | -17.0 | 3.2                         | 3.2  | 3.2  | 3.2  | 3.2  | 3.2  |
|           |                  | -14.7                   | -15.0 | 3.4                         | 3.4  | 3.4  | 3.4  | 3.4  | 3.4  |
|           |                  | -12.6                   | -13.0 | 3.6                         | 3.6  | 3.6  | 3.5  | 3.5  | 3.5  |
|           |                  | -10.5                   | -11.0 | 3.7                         | 3.7  | 3.7  | 3.7  | 3.7  | 3.7  |
|           |                  | -9.5                    | -10.0 | 3.8                         | 3.8  | 3.8  | 3.8  | 3.8  | 3.8  |
|           |                  | -8.5                    | -9.1  | 3.9                         | 3.9  | 3.9  | 3.9  | 3.9  | 3.9  |
|           |                  | -7.0                    | -7.6  | 4.0                         | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  |
|           |                  | -5.0                    | -5.6  | 4.2                         | 4.2  | 4.2  | 4.2  | 4.2  | 4.2  |
|           |                  | -3.0                    | -3.7  | 4.4                         | 4.4  | 4.4  | 4.4  | 4.4  | 4.4  |
|           |                  | 0.0                     | -0.7  | 4.7                         | 4.6  | 4.6  | 4.6  | 4.6  | 4.4  |
|           |                  | 3.0                     | 2.2   | 4.9                         | 4.9  | 4.9  | 4.8  | 4.7  | 4.4  |
|           |                  | 5.0                     | 4.1   | 5.1                         | 5.1  | 5.0  | 4.8  | 4.7  | 4.4  |
|           |                  | 7.0                     | 6.0   | 5.2                         | 5.2  | 5.0  | 4.8  | 4.7  | 4.4  |
|           |                  | 9.0                     | 7.9   | 5.4                         | 5.3  | 5.0  | 4.8  | 4.7  | 4.4  |
|           |                  | 11.0                    | 9.8   | 5.6                         | 5.3  | 5.0  | 4.8  | 4.7  | 4.4  |
|           |                  | 13.0                    | 11.8  | 5.6                         | 5.3  | 5.0  | 4.8  | 4.7  | 4.4  |
|           |                  | 15.0                    | 13.7  | 5.6                         | 5.3  | 5.0  | 4.8  | 4.7  | 4.4  |

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## 5 Capacity tables

### 5 - 2 Heating capacity tables

5

#### FXNQ-MA

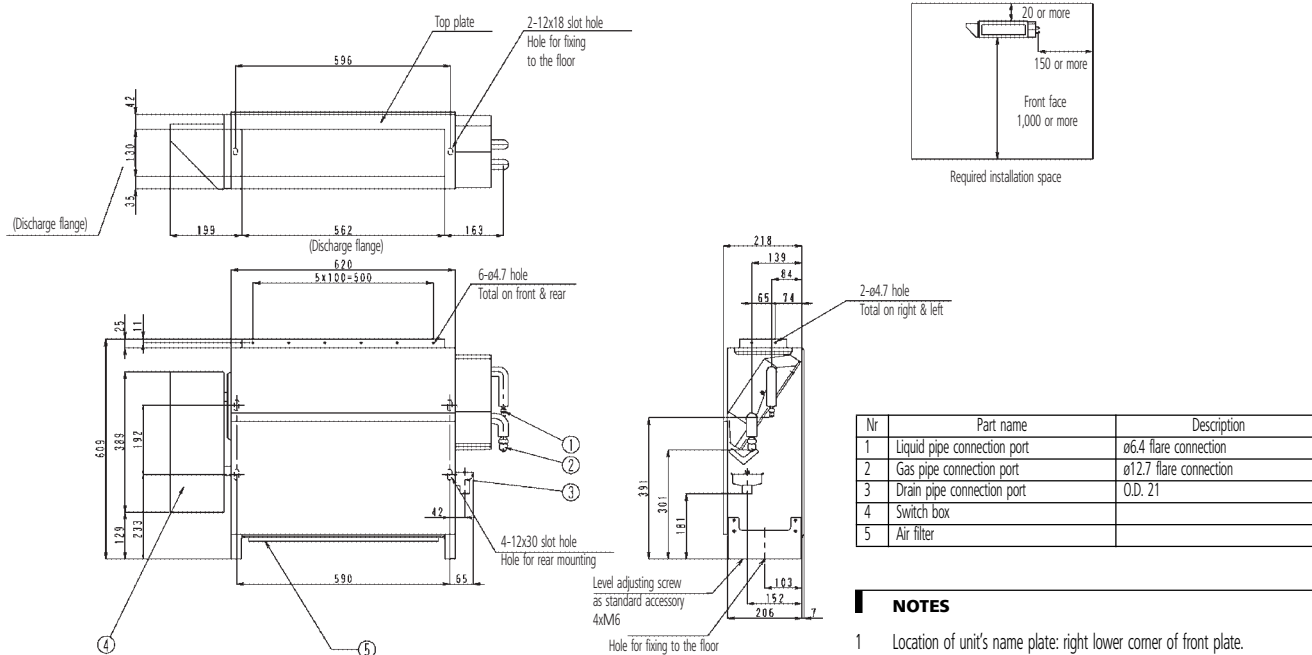
| Unit Size | Nominal capacity | Outdoor air temperature |       | Indoor air temperature °CDB |      |      |      |      |      |
|-----------|------------------|-------------------------|-------|-----------------------------|------|------|------|------|------|
|           |                  | °CDB                    | °CWB  | 16.0                        | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
|           |                  |                         |       | kW                          | kW   | kW   | kW   | kW   | kW   |
| 50        | 63               | -19.8                   | -20.0 | 3.7                         | 3.7  | 3.7  | 3.7  | 3.7  | 3.7  |
|           |                  | -18.8                   | -19.0 | 3.8                         | 3.8  | 3.8  | 3.8  | 3.8  | 3.8  |
|           |                  | -16.7                   | -17.0 | 4.1                         | 4.0  | 4.0  | 4.0  | 4.0  | 4.0  |
|           |                  | -14.7                   | -15.0 | 4.3                         | 4.3  | 4.3  | 4.2  | 4.2  | 4.2  |
|           |                  | -12.6                   | -13.0 | 4.5                         | 4.5  | 4.5  | 4.5  | 4.5  | 4.5  |
|           |                  | -10.5                   | -11.0 | 4.7                         | 4.7  | 4.7  | 4.7  | 4.7  | 4.7  |
|           |                  | -9.5                    | -10.0 | 4.8                         | 4.8  | 4.8  | 4.8  | 4.8  | 4.8  |
|           |                  | -8.5                    | -9.1  | 4.9                         | 4.9  | 4.9  | 4.9  | 4.9  | 4.9  |
|           |                  | -7.0                    | -7.6  | 5.1                         | 5.1  | 5.1  | 5.1  | 5.1  | 5.1  |
|           |                  | -5.0                    | -5.6  | 5.3                         | 5.3  | 5.3  | 5.3  | 5.3  | 5.3  |
|           |                  | -3.0                    | -3.7  | 5.5                         | 5.5  | 5.5  | 5.5  | 5.5  | 5.5  |
|           |                  | 0.0                     | -0.7  | 5.9                         | 5.9  | 5.8  | 5.8  | 5.8  | 5.5  |
|           |                  | 3.0                     | 2.2   | 6.2                         | 6.2  | 6.2  | 6.1  | 5.9  | 5.5  |
|           |                  | 5.0                     | 4.1   | 6.4                         | 6.4  | 6.3  | 6.1  | 5.9  | 5.5  |
|           |                  | 7.0                     | 6.0   | 6.6                         | 6.6  | 6.3  | 6.1  | 5.9  | 5.5  |
|           |                  | 9.0                     | 7.9   | 6.8                         | 6.7  | 6.3  | 6.1  | 5.9  | 5.5  |
|           |                  | 11.0                    | 9.8   | 7.0                         | 6.7  | 6.3  | 6.1  | 5.9  | 5.5  |
|           |                  | 13.0                    | 11.8  | 7.1                         | 6.7  | 6.3  | 6.1  | 5.9  | 5.5  |
|           |                  | 15.0                    | 13.7  | 7.1                         | 6.7  | 6.3  | 6.1  | 5.9  | 5.5  |
| 63        | 8.0              | -19.8                   | -20.0 | 4.7                         | 4.7  | 4.7  | 4.7  | 4.7  | 4.7  |
|           |                  | -18.8                   | -19.0 | 4.9                         | 4.9  | 4.8  | 4.8  | 4.8  | 4.8  |
|           |                  | -16.7                   | -17.0 | 5.1                         | 5.1  | 5.1  | 5.1  | 5.1  | 5.1  |
|           |                  | -14.7                   | -15.0 | 5.4                         | 5.4  | 5.4  | 5.4  | 5.4  | 5.4  |
|           |                  | -12.6                   | -13.0 | 5.7                         | 5.7  | 5.7  | 5.7  | 5.7  | 5.7  |
|           |                  | -10.5                   | -11.0 | 6.0                         | 6.0  | 6.0  | 6.0  | 6.0  | 5.9  |
|           |                  | -9.5                    | -10.0 | 6.1                         | 6.1  | 6.1  | 6.1  | 6.1  | 6.1  |
|           |                  | -8.5                    | -9.1  | 6.3                         | 6.3  | 6.2  | 6.2  | 6.2  | 6.2  |
|           |                  | -7.0                    | -7.6  | 6.5                         | 6.5  | 6.4  | 6.4  | 6.4  | 6.4  |
|           |                  | -5.0                    | -5.6  | 6.8                         | 6.7  | 6.7  | 6.7  | 6.7  | 6.7  |
|           |                  | -3.0                    | -3.7  | 7.0                         | 7.0  | 7.0  | 7.0  | 7.0  | 7.0  |
|           |                  | 0.0                     | -0.7  | 7.5                         | 7.4  | 7.4  | 7.4  | 7.4  | 7.0  |
|           |                  | 3.0                     | 2.2   | 7.9                         | 7.8  | 7.8  | 7.7  | 7.5  | 7.0  |
|           |                  | 5.0                     | 4.1   | 8.1                         | 8.1  | 8.0  | 7.7  | 7.5  | 7.0  |
|           |                  | 7.0                     | 6.0   | 8.4                         | 8.4  | 8.0  | 7.7  | 7.5  | 7.0  |
|           |                  | 9.0                     | 7.9   | 8.7                         | 8.5  | 8.0  | 7.7  | 7.5  | 7.0  |
|           |                  | 11.0                    | 9.8   | 8.9                         | 8.5  | 8.0  | 7.7  | 7.5  | 7.0  |
|           |                  | 13.0                    | 11.8  | 9.0                         | 8.5  | 8.0  | 7.7  | 7.5  | 7.0  |
|           |                  | 15.0                    | 13.7  | 9.0                         | 8.5  | 8.0  | 7.7  | 7.5  | 7.0  |

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## 6 Dimensional drawing & centre of gravity

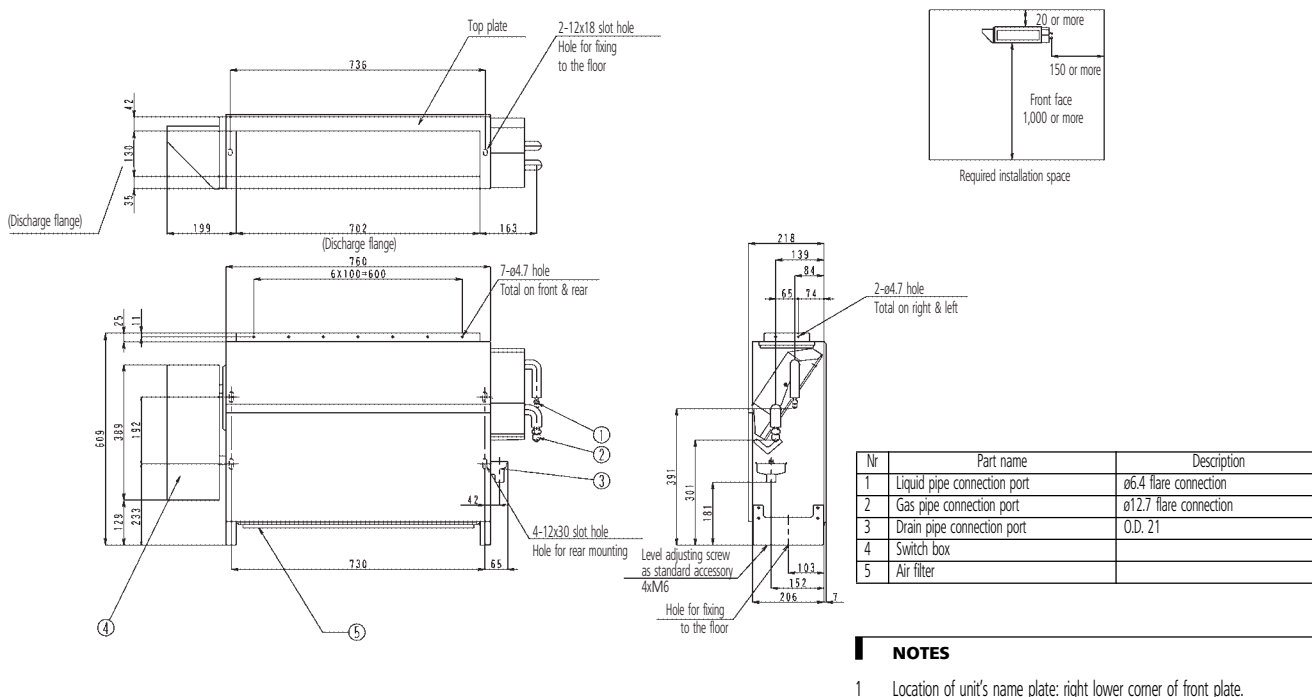
### 6 - 1 Dimensional drawing

#### FXNQ20,25MA



3D038863A

#### FXNQ32,40MA

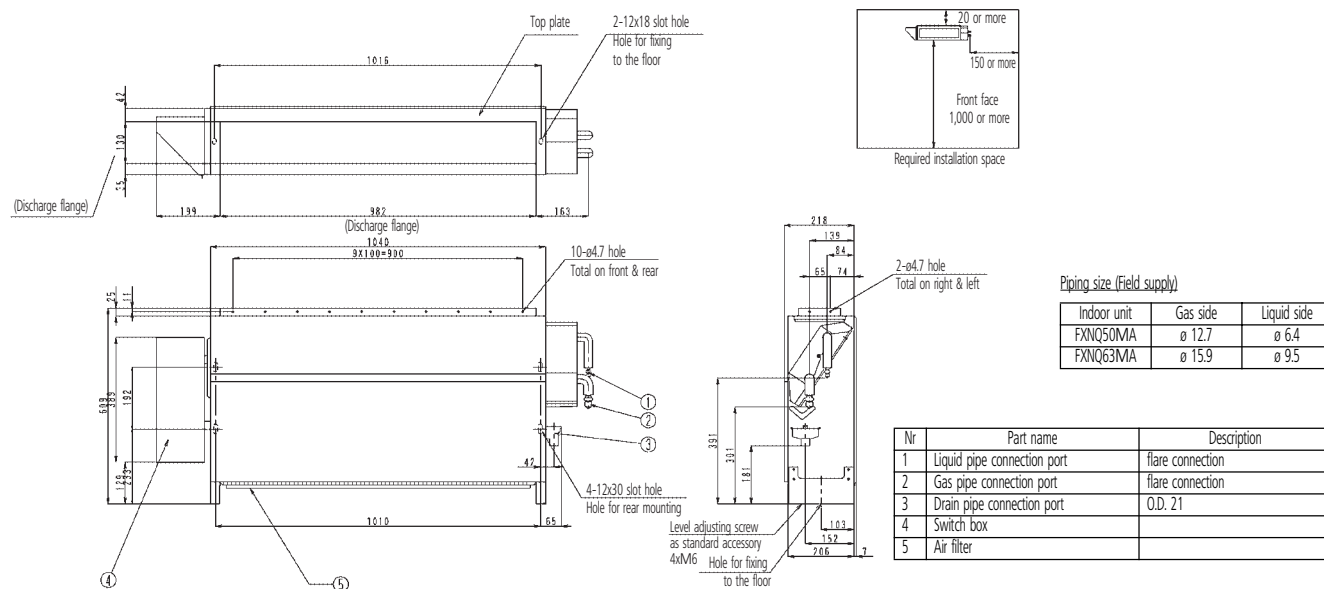


3D038864B

## 6 Dimensional drawing & centre of gravity

### 6 - 1 Dimensional drawing

FXNQ50,63MA



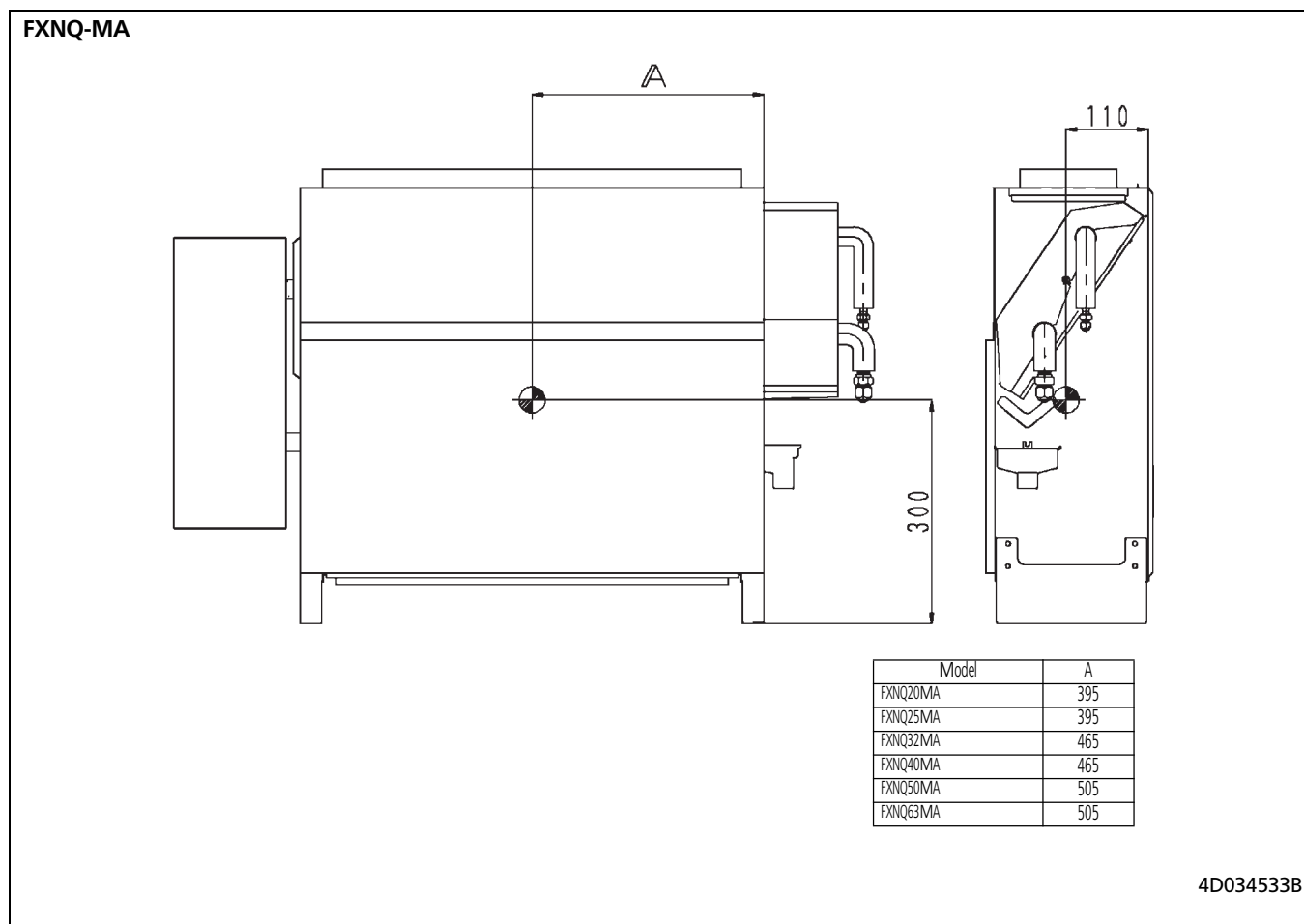
#### NOTES

- Location of unit's name plate: right lower corner of front plate.

3D038865B

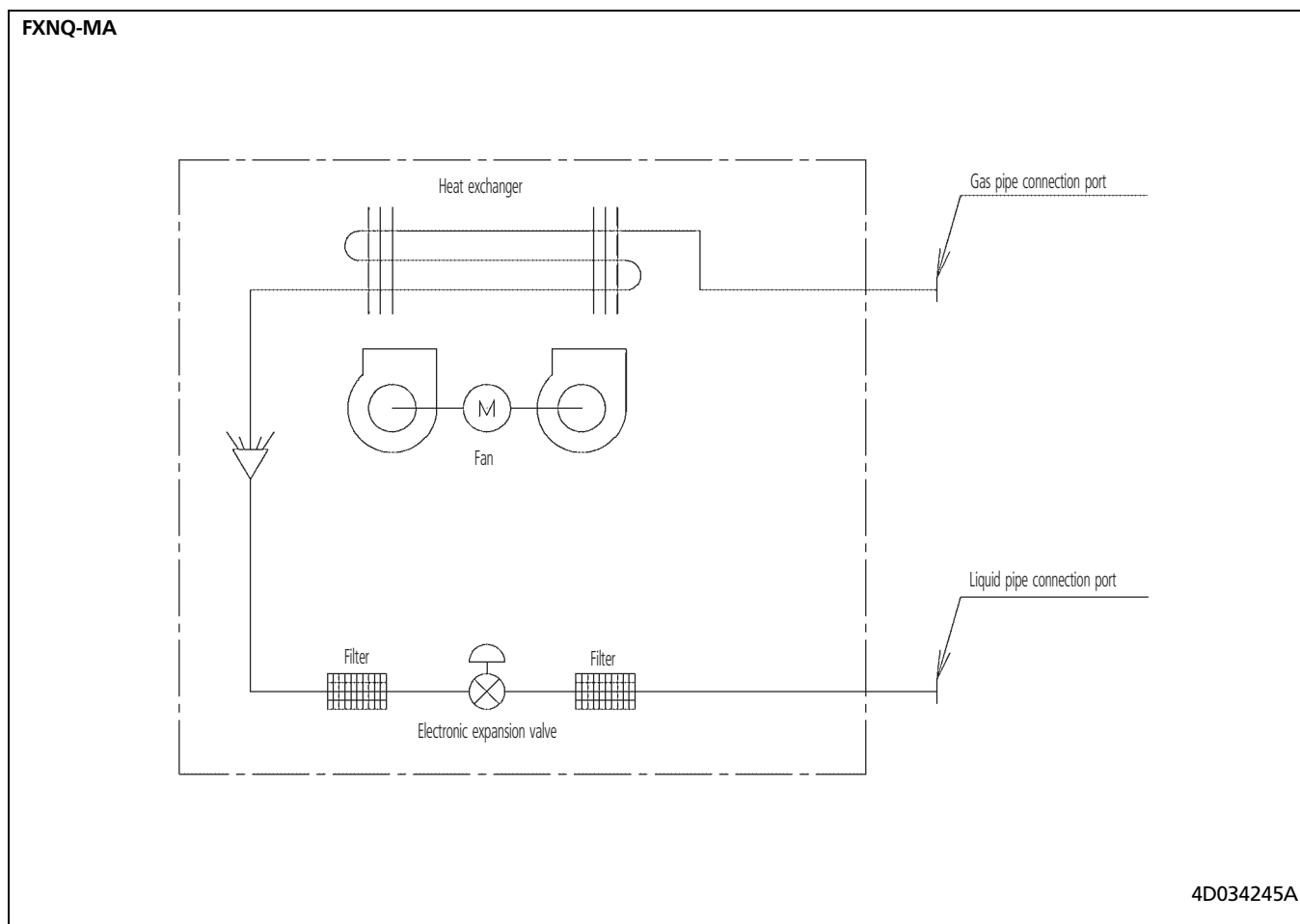
## 6 Dimensional drawing & centre of gravity

### 6 - 2 Centre of gravity



## 7 Piping diagram

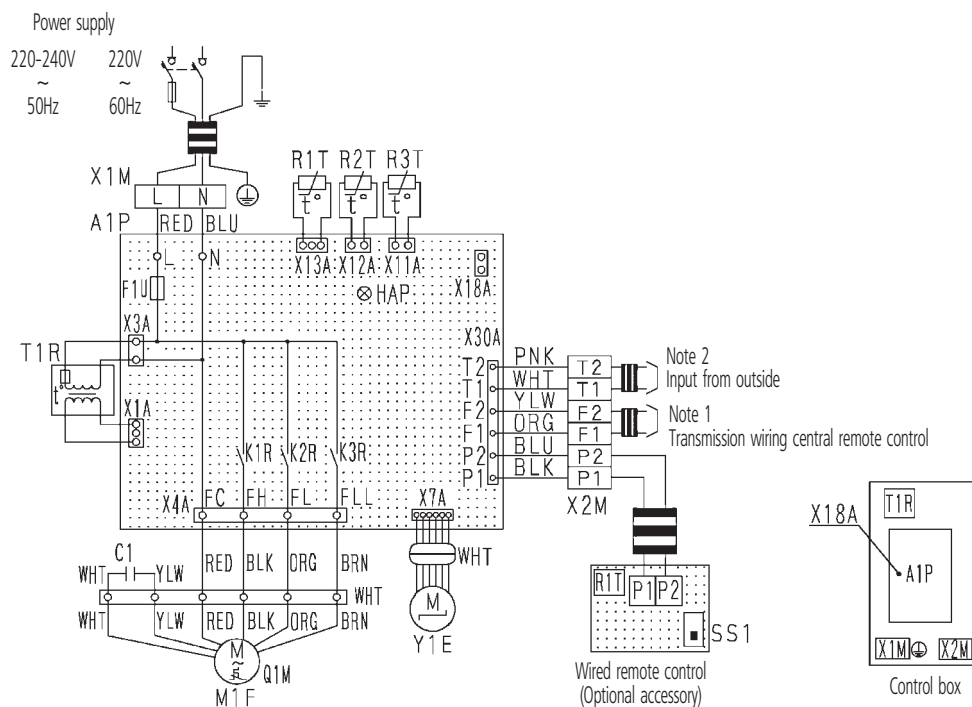
7



## 8 Wiring diagram

### 8 - 1 Wiring diagram

FXNQ-MA



| Indoor unit |                                                 | R2T • R3T                    | Thermistor (Coil)                                    |
|-------------|-------------------------------------------------|------------------------------|------------------------------------------------------|
| A1P         | Printed circuit board                           | T1R                          | Transformer (220-240V/22V)                           |
| C1          | Capacitor (M1F)                                 | X1M                          | Terminal block (Power)                               |
| F1U         | Fuse (5A, 250V)                                 | X2M                          | Terminal block (Control)                             |
| HAP         | Light emitting diode<br>(Service monitor-green) | Y1E                          | Electronic expansion valve                           |
| K1R-K3R     | Magnetic relay (M1F)                            | Wired remote control         |                                                      |
| M1F         | Motor (Indoor fan)                              | R1T                          | Thermistor (Air)                                     |
| Q1M         | Thermo switch (M1F embedded)                    | SS1                          | Selector switch (Main/sub)                           |
| R1T         | Thermistor (Air)                                | Connector for optional parts |                                                      |
|             |                                                 | X18A                         | Connector (Wiring adapter for electrical appendices) |

: Terminal block  
 : Connector  
 : Terminal  
 : Field wiring

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

#### NOTES

- In case using central remote control, connect it to the unit in accordance with the attached instruction manual.
- When connecting the input wires from the outside, forced off or on/off control operation can be selected by remote control. In details, refer to the installation manual attached to the unit.
- Use copper conductors only.

3D039826D



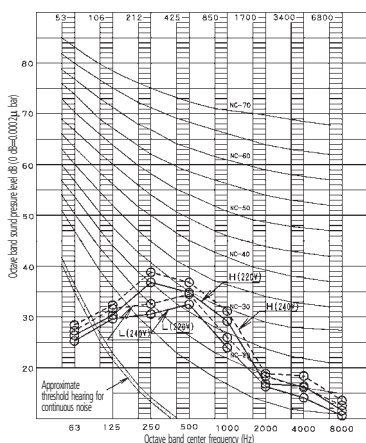
## 9 Sound data

### 9 - 1 Sound pressure spectrum

9

FXNQ20,25MA

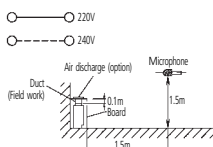
4D034534A



#### NOTES

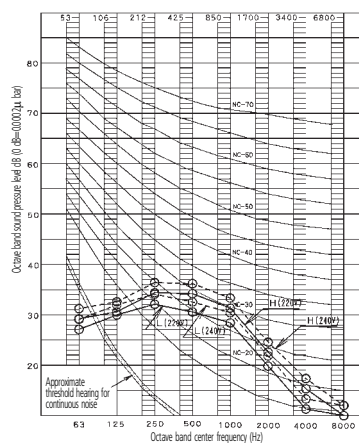
- Over all (dB):  
(B, G, N is already rectified)
- Measuring place: Anechoic chamber
- Operating conditions:
  - Power source: 220•240V/220V 50/60Hz
  - JIS standard
- Location of microphone
- Operating noise differs with operation and ambient conditions.

| Scale | 220V |      | 240V |      |
|-------|------|------|------|------|
|       | H    | L    | H    | L    |
| A     | 35   | 32   | 37   | 34   |
| C     | 40   | 36.5 | 42   | 38.5 |



FXNQ32MA

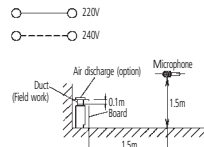
4D034535A



#### NOTES

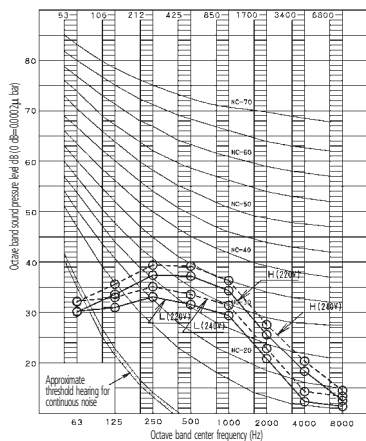
- Over all (dB):  
(B, G, N is already rectified)
- Measuring place: Anechoic chamber
- Operating conditions:
  - Power source: 220•240V/220V 50/60Hz
  - JIS standard
- Location of microphone
- Operating noise differs with operation and ambient conditions.

| Scale | 220V |    | 240V |    |
|-------|------|----|------|----|
|       | H    | L  | H    | L  |
| A     | 35   | 32 | 37   | 34 |
| C     | 39   | 37 | 41   | 39 |



FXNQ40MA

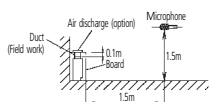
4D034536A



#### NOTES

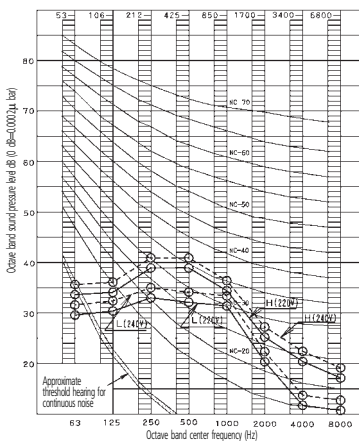
- Over all (dB):  
(B, G, N is already rectified)
- Measuring place: Anechoic chamber
- Operating conditions:
  - Power source: 220•240V/220V 50/60Hz
  - JIS standard
- Location of microphone
- Operating noise differs with operation and ambient conditions.

| Scale | 220V |    | 240V |    |
|-------|------|----|------|----|
|       | H    | L  | H    | L  |
| A     | 38   | 33 | 40   | 35 |
| C     | 42   | 38 | 44   | 40 |



FXNQ50MA

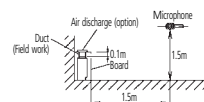
4D034537A



#### NOTES

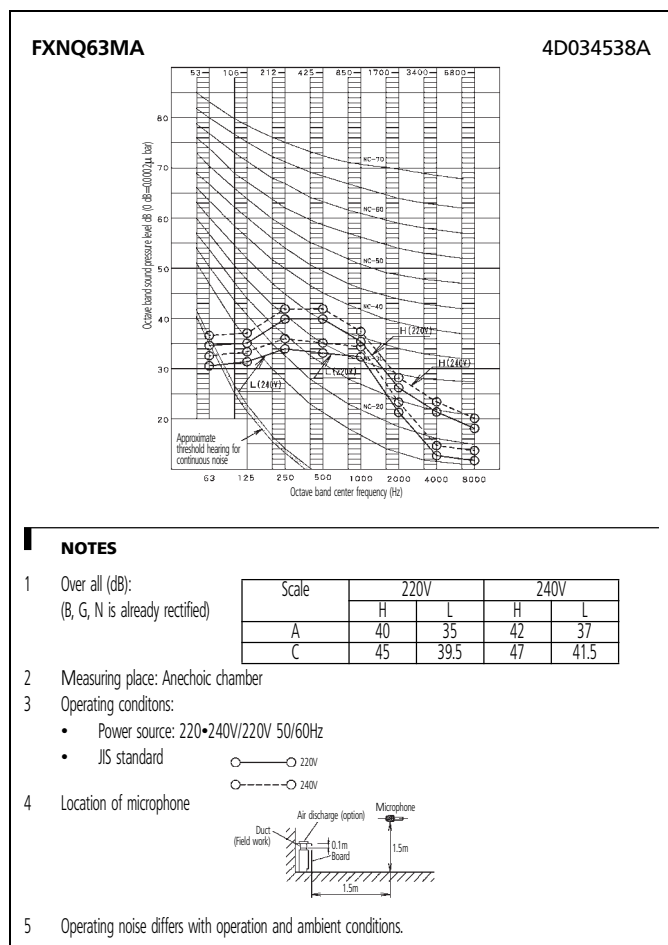
- Over all (dB):  
(B, G, N is already rectified)
- Measuring place: Anechoic chamber
- Operating conditions:
  - Power source: 220•240V/220V 50/60Hz
  - JIS standard
- Location of microphone
- Operating noise differs with operation and ambient conditions.

| Scale | 220V |      | 240V |      |
|-------|------|------|------|------|
|       | H    | L    | H    | L    |
| A     | 39   | 34   | 41   | 36   |
| C     | 44   | 38.5 | 46   | 40.5 |



## 9 Sound data

### 9 - 1 Sound pressure spectrum

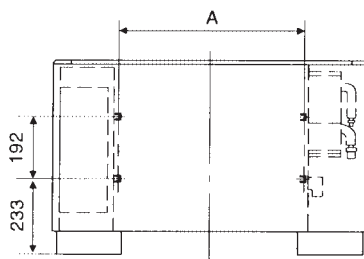


## 10 Installation

### 10 - 1 Suspension bolt pitch position

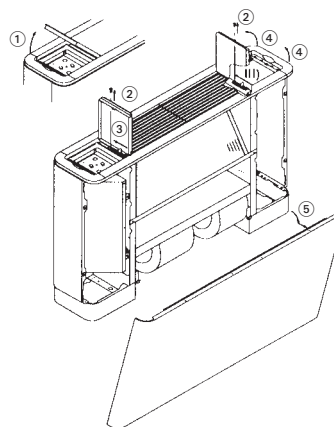
#### FXNQ-MA

- Positioning of holes for fastening to the wall



| Model       | A     |
|-------------|-------|
| FXNQ20,25MA | 590   |
| FXNQ32,40MA | 730   |
| FXNQ50,63MA | 1,010 |

- How to open/close the front panel



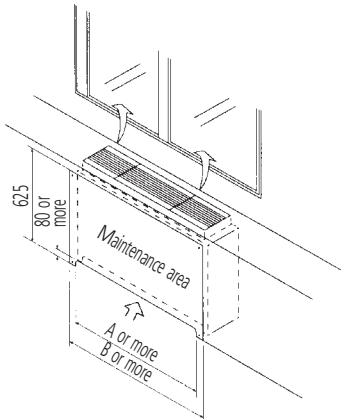
- 1 Open the lid of control panel (both left and right).
- 2 Remove screws (both left and right).
- 3 Push the knobs (both left and right) to the rear.
- 4 Lift the front of the top plate.
- 5 Lower the front panel towards the front of the unit.
- 6 To close, perform the procedure in opposite order. Pull towards the front until the knob snaps in place.

3PN86154-1-5

# 10 Installation

## 10 - 2 Service space

FXNQ-MA



| Model       | A   | B     |
|-------------|-----|-------|
| FXNQ20,25MA | 570 | 1,030 |
| FXNQ32,40MA | 710 | 1,170 |
| FXNQ50,63MA | 990 | 1,450 |

### NOTE

- 1 Leave sufficient clearance for air inlet and maintenance.

3P086154-1-4



# 2

**VRV III-S**  
**VRV III**  
**VRV II**  
**VRV-WII**

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