



Air Conditioners

Technical Data

VRV[®]

4-way blow ceiling suspended unit



EEDEN11-204

FXUQ-MA



Air Conditioners

Technical Data



4-way blow ceiling suspended unit



EEDEN11-204

FXUQ-MA

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FXUQ-MA

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1 Specifications

| 1-1 Technical Specifications | | | | FXUQ71MA | FXUQ100MA | FXUQ125MA | |
|------------------------------|----------------------|----------|---|--|-----------|-----------|----|
| Cooling capacity | Nom. | | kW | 8.0 | 11.2 | 14.0 | |
| Heating capacity | Nom. | | kW | 9.0 | 12.5 | 14.0 | |
| Power input - 50Hz | Cooling | Nom. | kW | 0.180 | 0.289 | | |
| | Heating | Nom. | kW | 0.160 | 0.269 | | |
| Casing | Colour | | | White | | | |
| | Material | | | Resin | | | |
| Dimensions | Unit | Height | mm | 165 | 230 | | |
| | | Width | mm | 895 | | | |
| | | Depth | mm | 895 | | | |
| | Packed unit | Height | mm | 230 | 295 | | |
| | | Width | mm | 960 | | | |
| | | Depth | mm | 960 | | | |
| Weight | Unit | | kg | 25 | 31 | | |
| | Packed unit | | kg | 35 | 42 | | |
| Heat exchanger | Type | | | Cross fin coil (multi louver fins and N-hix tubes) | | | |
| | Length | | mm | 2,101 | | | |
| | Rows | Quantity | | 3 | | | |
| | Fin pitch | | mm | 1.5 | | | |
| | Passes | Quantity | | 8 | | 12 | |
| | Face area | | m ² | 0.265 | 0.353 | | |
| | Stages | Quantity | | 6 | 8 | | |
| | Empty tubeplate hole | Quantity | | 0 | 4 | 0 | |
| Fan | Type | | | Turbo fan | | | |
| | Quantity | | | 1 | | | |
| | Air flow rate - 50Hz | Cooling | High | m ³ /min | 19 | 29 | 32 |
| | | | Low | m ³ /min | 14 | 21 | 23 |
| | | Heating | High | m ³ /min | 19 | 29 | 32 |
| Low | | | m ³ /min | 14 | 21 | 23 | |
| Fan motor | Model | | | QTS48A10M | QTS50B15M | | |
| | Speed | Steps | | 2 | | | |
| | Output | High | W | 45 | 90 | | |
| Sound power level | Cooling | High | dBA | 56 | 59 | 60 | |
| Sound pressure level | Cooling | High | dBA | 40 | 43 | 44 | |
| | | Low | dBA | 35 | 38 | 39 | |
| | Heating | High | dBA | 40 | 43 | 44 | |
| | | Low | dBA | 35 | 38 | 39 | |
| Refrigerant | Type | | | R-410A | | | |
| Piping connections | Liquid | Type | | Flare connection | | | |
| | | OD | mm | 9.52 | | | |
| | Gas | Type | | Flare connection | | | |
| | | OD | mm | 15.9 | | | |
| | Drain | | | I.D. 20/O.D. 26 | | | |
| Heat insulation | | | Heat resistant foamed polyethylene, regular foamed polyethylene | | | | |
| Air filter | | | Resin net with mold resistance | | | | |
| Safety devices | Item | 01 | | Fan motor thermal protection | | | |

Standard Accessories : Sealing pads;

Standard Accessories : Holding plate;

Standard Accessories : Washer;

Standard Accessories : Clamps;

Standard Accessories : Insulation for fitting;

Standard Accessories : Clamp metal;

Standard Accessories : Drain hose;

Standard Accessories : Installation and operation manual;

Standard Accessories : Sealing material;

Standard Accessories : Gas connection pipe;

Standard Accessories : Installation manual;

1 Specifications

| 1-2 Electrical Specifications | | | | FXUQ71MA | FXUQ100MA | FXUQ125MA |
|-------------------------------|----------------------|-------|----|----------|-----------|-----------|
| Power supply | Name | | | V1 | | |
| | Phase | | | 1~ | | |
| | Frequency | | Hz | 50 | | |
| | Voltage | | V | 220-240 | | |
| Current - 50Hz | Full load amps (FLA) | Total | A | 0.6 | 1.0 | |

Notes

- (1) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- (2) Maximum allowable voltage range variation between phases is 2%.
- (3) MCA/MFA: $MCA = 1.25 \times FLA$
- (4) $MFA \leq 4 \times FLA$
- (5) Next lower standard fuse rating minimum 15A
- (6) Select wire size based on the value of MCA
- (7) Instead of a fuse, use a circuit breaker

2 Safety device settings

2 - 1 Safety Device Settings

| | | FXUQ71MA | FXUQ100MA | FXUQ125MA |
|-----------------------------|----|----------|------------------------|-----------|
| FAN MOTOR THERMAL PROTECTOR | °C | | OFF: 130 ^{±5} | |
| | | | | 4D013856F |

3 Options

3 - 1 Options

| | FXUQ71MA | FXUQ100MA | FXUQ125MA |
|--|------------|-------------|-------------|
| SEALING MEMBER OF AIR DISCHARGE OUTLET | KDBHJ49F80 | | KDBHJ49F140 |
| DECORATION PANEL FOR AIR DISCHARGE | KDBTJ49F80 | | KDBTJ49F140 |
| VERTICAL FLAP KIT | KDGJ49F80 | | KDGJ49F140 |
| REPLACEMENT LONG-LIFE FILTER | | KAFJ495F140 | |
| L CONNECTION PIPING KIT | | KHFP49M140 | |
| | | | 3D045452A |

4 Control systems

4 - 1 Control Systems

Individual control systems

| | | FXUQ71MA | FXUQ100MA | FXUQ125MA |
|-------------------------|--------------|----------|-----------|-----------|
| WIRED REMOTE CONTROL | | | BRC1D52 | |
| INFRARED REMOTE CONTROL | Heat pump | | BRC7C528W | |
| | Cooling only | | BRC7C529W | |

Centralised control systems

| | | FXUQ71MA | FXUQ100MA | FXUQ125MA |
|----------------------------|--|----------|-----------|-----------|
| CENTRALISED REMOTE CONTROL | | | DCS302B51 | |
| UNIFIED ON/OFF CONTROL | | | DCS301B51 | |
| SCHEDULE TIMER | | | DST301B51 | |

Others

| | | FXUQ71MA | FXUQ100MA | FXUQ125MA |
|--------------------------------------|--|----------|-----------|-----------|
| GROUP CONTROL ADAPTOR ※1 | | | KRP4A53 | |
| INTERFACE ADAPTER FOR SKY AIR SERIES | | | DTA102A52 | |
| INSTALLATION BOX FOR ADAPTER PCB | | | KRP1B97 | |
| REMOTE SENSOR | | | KRCS01-1 | |
| CONNECTOR FOR FORCED ON, FORCED OFF | | | EKR0R0 | |

3D045452A

NOTES

- 1 ※ Installation box for adapter PCB (KRP1B97) is necessary.

5 Capacity tables

5 - 1 Cooling Capacity Tables

| FXUQ-MA | | | | | | | | | | | | | | | | |
|-----------|------------------|-------------------|------------------------|-----|--------|-----|--------|------|--------|------|--------|------|--------|------|--------|------|
| Unit size | Nominal capacity | Outdoor air temp. | Indoor air temperature | | | | | | | | | | | | | |
| | | | 14.OWB | | 16.OWB | | 18.OWB | | 19.OWB | | 20.OWB | | 22.OWB | | 24.OWB | |
| | | | 20.ODB | | 23.ODB | | 26.ODB | | 27.ODB | | 28.ODB | | 30.ODB | | 32.ODB | |
| | | | °CDB | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC | SHC | TC |
| 71 | 8.0 | 10.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 9.6 | 6.2 | 10.5 | 6.3 |
| | | 12.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 9.6 | 6.2 | 10.4 | 6.2 |
| | | 14.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 9.6 | 6.2 | 10.3 | 6.2 |
| | | 16.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 9.6 | 6.2 | 10.1 | 6.1 |
| | | 18.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 9.6 | 6.2 | 10.0 | 6.0 |
| | | 20.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 9.6 | 6.2 | 9.8 | 5.9 |
| | | 21.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 9.6 | 6.2 | 9.8 | 5.9 |
| | | 23.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 9.4 | 6.2 | 9.6 | 5.8 |
| | | 25.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 9.3 | 6.1 | 9.5 | 5.7 |
| | | 27.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 9.2 | 6.0 | 9.4 | 5.7 |
| | | 29.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 9.0 | 5.9 | 9.2 | 5.7 |
| | | 31.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 8.9 | 5.8 | 9.1 | 5.6 |
| | | 33.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.5 | 6.0 | 8.7 | 5.8 | 8.9 | 5.6 |
| | | 35.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.0 | 8.4 | 6.0 | 8.6 | 5.7 | 8.8 | 5.5 |
| 37.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 5.9 | 8.3 | 6.0 | 8.5 | 5.8 | 8.7 | 5.4 | | |
| 39.0 | 5.4 | 4.8 | 6.4 | 5.2 | 7.5 | 5.8 | 8.0 | 6.1 | 8.1 | 5.9 | 8.3 | 5.6 | 8.5 | 5.4 | | |
| 100 | 11.2 | 10.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 13.4 | 8.4 | 14.7 | 8.5 |
| | | 12.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 13.4 | 8.4 | 14.5 | 8.4 |
| | | 14.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 13.4 | 8.4 | 14.4 | 8.3 |
| | | 16.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 13.4 | 8.4 | 14.2 | 8.2 |
| | | 18.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 13.4 | 8.4 | 14.0 | 8.1 |
| | | 20.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 13.4 | 8.4 | 13.8 | 8.0 |
| | | 21.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 13.4 | 8.4 | 13.7 | 7.9 |
| | | 23.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 13.2 | 8.2 | 13.5 | 7.8 |
| | | 25.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 13.0 | 8.1 | 13.3 | 7.7 |
| | | 27.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 12.8 | 8.0 | 13.1 | 7.7 |
| | | 29.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 12.6 | 7.9 | 12.9 | 7.6 |
| | | 31.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 12.4 | 7.9 | 12.7 | 7.6 |
| | | 33.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.9 | 8.3 | 12.2 | 7.8 | 12.5 | 7.6 |
| | | 35.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.8 | 8.3 | 12.1 | 7.7 | 12.3 | 7.4 |
| 37.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.6 | 8.3 | 11.9 | 7.7 | 12.2 | 7.3 | | |
| 39.0 | 7.6 | 6.6 | 9.0 | 7.1 | 10.5 | 8.0 | 11.2 | 8.2 | 11.4 | 8.2 | 11.7 | 7.6 | 12.0 | 7.3 | | |
| 125 | 14.0 | 10.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 16.8 | 10.7 | 18.4 | 10.8 |
| | | 12.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 16.8 | 10.7 | 18.2 | 10.7 |
| | | 14.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 16.8 | 10.7 | 18.0 | 10.5 |
| | | 16.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 16.8 | 10.7 | 17.7 | 10.4 |
| | | 18.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 16.8 | 10.7 | 17.5 | 10.2 |
| | | 20.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 16.8 | 10.7 | 17.2 | 10.1 |
| | | 21.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 16.8 | 10.7 | 17.1 | 10.0 |
| | | 23.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 16.5 | 10.5 | 16.9 | 9.9 |
| | | 25.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 16.3 | 10.4 | 16.6 | 9.9 |
| | | 27.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 16.1 | 10.2 | 16.4 | 9.8 |
| | | 29.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 15.8 | 10.1 | 16.2 | 9.7 |
| | | 31.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 15.6 | 10.0 | 15.9 | 9.6 |
| | | 33.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.9 | 10.6 | 15.3 | 9.9 | 15.7 | 9.6 |
| | | 35.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.8 | 10.5 | 15.1 | 9.9 | 15.4 | 9.4 |
| 37.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.5 | 10.5 | 14.9 | 9.8 | 15.2 | 9.4 | | |
| 39.0 | 9.5 | 8.0 | 11.3 | 9.0 | 13.1 | 9.9 | 14.0 | 10.4 | 14.3 | 10.2 | 14.6 | 9.6 | 15.0 | 9.3 | | |

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5 Capacity tables

5 - 2 Heating Capacity Tables

| FXUQ-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 |
| 71 | 9.0 | -19.8 | -20.0 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 | 5.3 |
| | | -18.8 | -19.0 | 5.5 | 5.5 | 5.4 | 5.4 | 5.4 | 5.4 |
| | | -16.7 | -17.0 | 5.8 | 5.8 | 5.8 | 5.7 | 5.7 | 5.7 |
| | | -14.7 | -15.0 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 | 6.1 |
| | | -12.6 | -13.0 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | | -10.5 | -11.0 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 |
| | | -9.5 | -10.0 | 6.9 | 6.9 | 6.9 | 6.9 | 6.9 | 6.8 |
| | | -8.5 | -9.1 | 7.1 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| | | -7.0 | -7.6 | 7.3 | 7.3 | 7.3 | 7.3 | 7.2 | 7.2 |
| | | -5.0 | -5.6 | 7.6 | 7.6 | 7.6 | 7.6 | 7.5 | 7.5 |
| | | -3.0 | -3.7 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 |
| | | 0.0 | -0.7 | 8.4 | 8.4 | 8.3 | 8.3 | 8.3 | 7.9 |
| | | 3.0 | 2.2 | 8.9 | 8.8 | 8.8 | 8.7 | 8.4 | 7.9 |
| | | 5.0 | 4.1 | 9.1 | 9.1 | 9.0 | 8.7 | 8.4 | 7.9 |
| | | 7.0 | 6.0 | 9.5 | 9.4 | 9.0 | 8.7 | 8.4 | 7.9 |
| | | 9.0 | 7.9 | 9.8 | 9.6 | 9.0 | 8.7 | 8.4 | 7.9 |
| 11.0 | 9.8 | 10.1 | 9.6 | 9.0 | 8.7 | 8.4 | 7.9 | | |
| 13.0 | 11.8 | 10.1 | 9.6 | 9.0 | 8.7 | 8.4 | 7.9 | | |
| 15.0 | 13.7 | 10.1 | 9.6 | 9.0 | 8.7 | 8.4 | 7.9 | | |
| 100 | 12.5 | -19.8 | -20.0 | 7.4 | 7.4 | 7.3 | 7.3 | 7.3 | 7.3 |
| | | -18.8 | -19.0 | 7.6 | 7.6 | 7.6 | 7.5 | 7.5 | 7.5 |
| | | -16.7 | -17.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 | 8.0 |
| | | -14.7 | -15.0 | 8.5 | 8.5 | 8.4 | 8.4 | 8.4 | 8.4 |
| | | -12.6 | -13.0 | 8.9 | 8.9 | 8.9 | 8.9 | 8.9 | 8.8 |
| | | -10.5 | -11.0 | 9.4 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 |
| | | -9.5 | -10.0 | 9.6 | 9.6 | 9.5 | 9.5 | 9.5 | 9.5 |
| | | -8.5 | -9.1 | 9.8 | 9.8 | 9.7 | 9.7 | 9.7 | 9.7 |
| | | -7.0 | -7.6 | 10.1 | 10.1 | 10.1 | 10.1 | 10.1 | 10.0 |
| | | -5.0 | -5.6 | 10.6 | 10.5 | 10.5 | 10.5 | 10.5 | 10.5 |
| | | -3.0 | -3.7 | 11.0 | 11.0 | 10.9 | 10.9 | 10.9 | 10.9 |
| | | 0.0 | -0.7 | 11.6 | 11.6 | 11.6 | 11.6 | 11.6 | 10.9 |
| | | 3.0 | 2.2 | 12.3 | 12.3 | 12.2 | 12.1 | 11.7 | 10.9 |
| | | 5.0 | 4.1 | 12.7 | 12.7 | 12.5 | 12.1 | 11.7 | 10.9 |
| | | 7.0 | 6.0 | 13.1 | 13.1 | 12.5 | 12.1 | 11.7 | 10.9 |
| | | 9.0 | 7.9 | 13.5 | 13.3 | 12.5 | 12.1 | 11.7 | 10.9 |
| 11.0 | 9.8 | 14.0 | 13.3 | 12.5 | 12.1 | 11.7 | 10.9 | | |
| 13.0 | 11.8 | 14.1 | 13.3 | 12.5 | 12.1 | 11.7 | 10.9 | | |
| 15.0 | 13.7 | 14.1 | 13.3 | 12.5 | 12.1 | 11.7 | 10.9 | | |
| 125 | 14.0 | -19.8 | -20.0 | 8.3 | 8.2 | 8.2 | 8.2 | 8.2 | 8.2 |
| | | -18.8 | -19.0 | 8.5 | 8.5 | 8.4 | 8.4 | 8.4 | 8.4 |
| | | -16.7 | -17.0 | 9.0 | 9.0 | 9.0 | 8.9 | 8.9 | 8.9 |
| | | -14.7 | -15.0 | 9.5 | 9.5 | 9.5 | 9.4 | 9.4 | 9.4 |
| | | -12.6 | -13.0 | 10.0 | 10.0 | 10.0 | 10.0 | 9.9 | 9.9 |
| | | -10.5 | -11.0 | 10.5 | 10.5 | 10.4 | 10.4 | 10.4 | 10.4 |
| | | -9.5 | -10.0 | 10.8 | 10.7 | 10.7 | 10.7 | 10.7 | 10.6 |
| | | -8.5 | -9.1 | 11.0 | 10.9 | 10.9 | 10.9 | 10.9 | 10.8 |
| | | -7.0 | -7.6 | 11.3 | 11.3 | 11.3 | 11.3 | 11.2 | 11.2 |
| | | -5.0 | -5.6 | 11.8 | 11.8 | 11.8 | 11.8 | 11.7 | 11.7 |
| | | -3.0 | -3.7 | 12.3 | 12.3 | 12.3 | 12.2 | 12.2 | 12.2 |
| | | 0.0 | -0.7 | 13.0 | 13.0 | 13.0 | 13.0 | 13.0 | 12.2 |
| | | 3.0 | 2.2 | 13.8 | 13.7 | 13.7 | 13.6 | 13.1 | 12.2 |
| | | 5.0 | 4.1 | 14.2 | 14.2 | 14.0 | 13.6 | 13.1 | 12.2 |
| | | 7.0 | 6.0 | 14.7 | 14.7 | 14.0 | 13.6 | 13.1 | 12.2 |
| | | 9.0 | 7.9 | 15.2 | 14.9 | 14.0 | 13.6 | 13.1 | 12.2 |
| 11.0 | 9.8 | 15.6 | 14.9 | 14.0 | 13.6 | 13.1 | 12.2 | | |
| 13.0 | 11.8 | 15.8 | 14.9 | 14.0 | 13.6 | 13.1 | 12.2 | | |
| 15.0 | 13.7 | 15.8 | 14.9 | 14.0 | 13.6 | 13.1 | 12.2 | | |

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6 Dimensional drawings

6 - 1 Dimensional Drawings

FXUQ71MA

Drain connection location for upper piping

Drain connection location for rear piping

* Drain pipe can be raised up to 500mm from the top surface of the product.

Brand name plate (note 2)

Required space

*1500mm or more

*When closing the discharge grill, the required space is 30mm or more. (note 3)

Suspension bolt 4-M8-M10

Height of suspension bracket

| Nr | Name | Description |
|----|--------------------------------|--------------|
| 1 | Liquid pipe connection | ø 9.5 flare |
| 2 | Gas pipe connection | ø 15.9 flare |
| 3 | Drain pipe connection | VP20 |
| 4 | Air outlet | |
| 5 | Air suction grill | |
| 6 | Corner decoration cover | |
| 7 | Right pipe / wiring connection | |
| 8 | Rear pipe / wiring connection | |
| 9 | Pipe through cover | |
| 10 | Accessory drain elbow | |

NOTES

- 1 Location for manufacture's label: on bell mouth.
- 2 This is where the signal of infrared remote control is received. Refer to the drawing of infrared remote control in detail.
- 3 When closing the discharge grill (2 or 3 way discharge), direction of pipe connection will be limited, please refer to installation manual.

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FXUQ100,125MA

Drain connection location for upper piping

Drain connection location for rear piping

* Drain pipe can be raised up to 500mm from the top surface of the product.

Brand name plate (note 2)

Required space

*1500mm or more

*When closing the discharge grill, the required space is 30mm or more. (note 3)

Suspension bolt 4-M8-M10

Height of suspension bracket

| Nr | Name | Description |
|----|--------------------------------|--------------|
| 1 | Liquid pipe connection | ø 9.5 flare |
| 2 | Gas pipe connection | ø 15.9 flare |
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| 6 | Corner decoration cover | |
| 7 | Right pipe / wiring connection | |
| 8 | Rear pipe / wiring connection | |
| 9 | Pipe through cover | |
| 10 | Accessory drain elbow | |

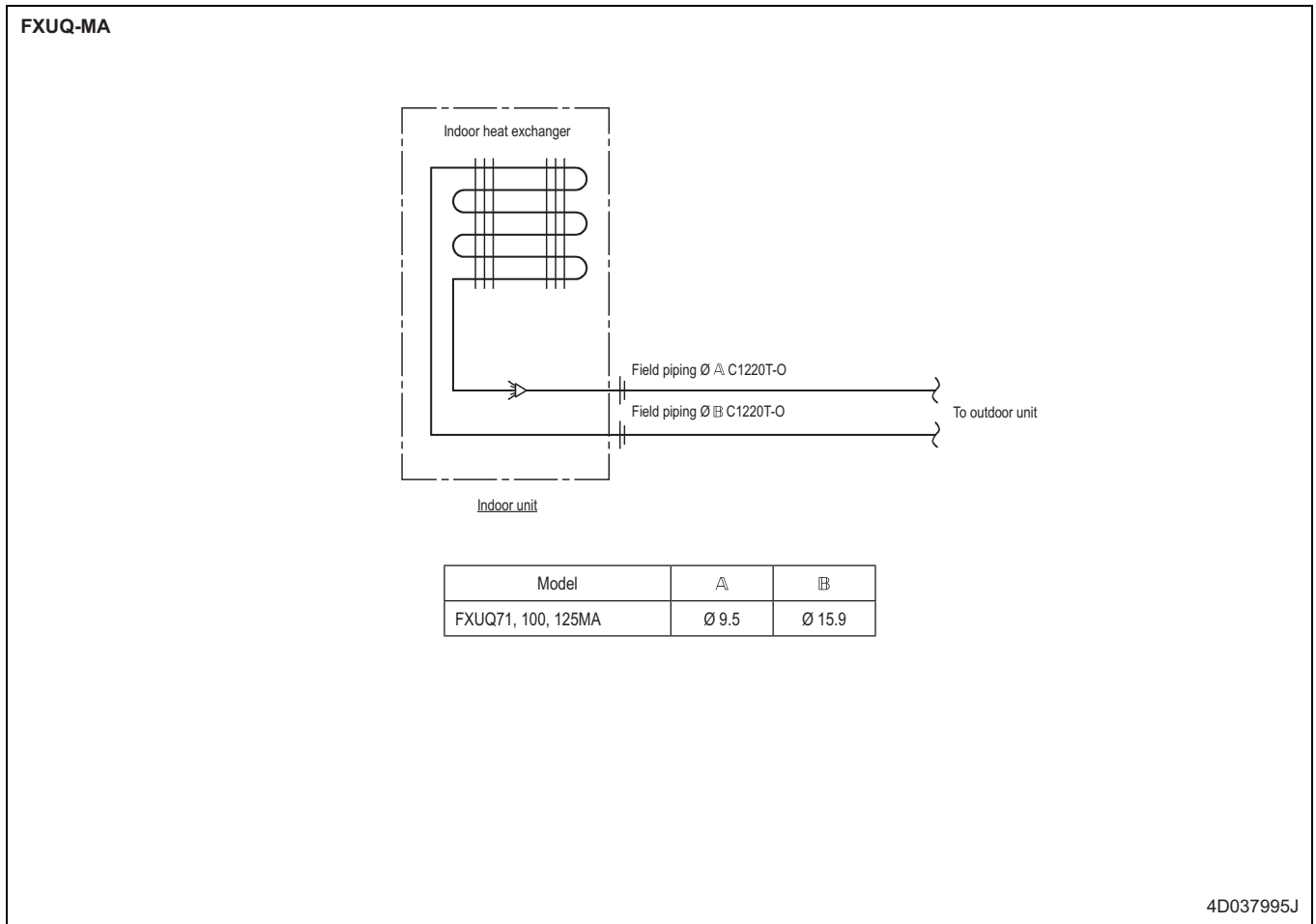
NOTES

- 1 Location for manufacture's label: on bell mouth.
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7 Piping diagrams

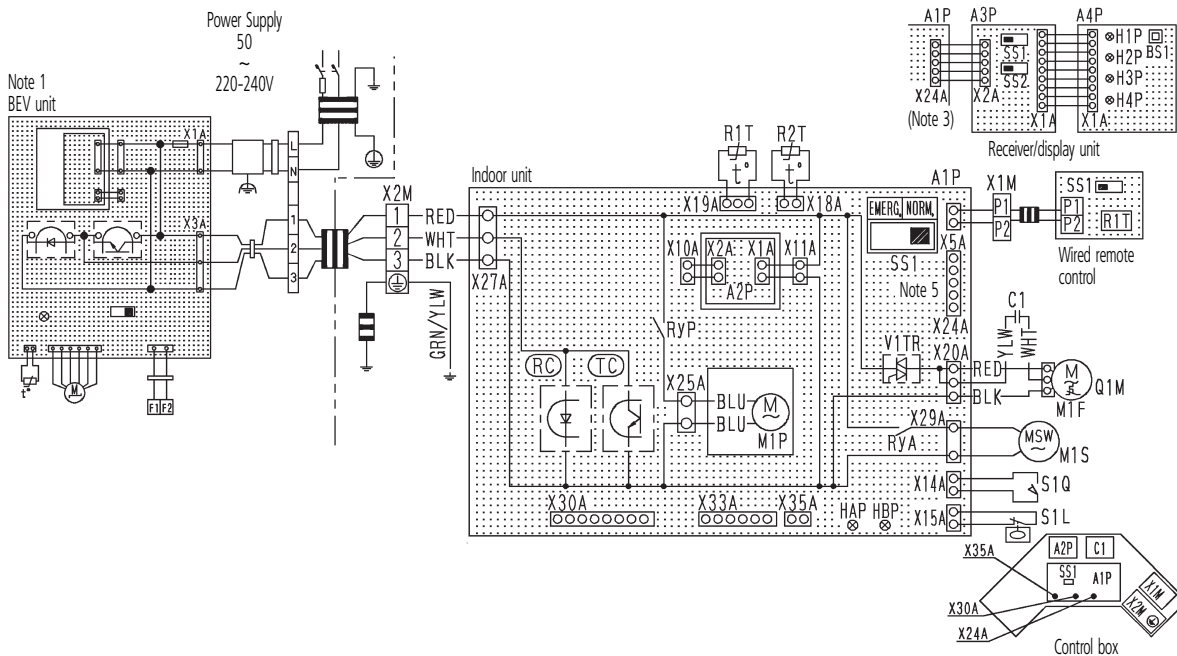
7 - 1 Piping Diagrams



8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

FXUQ-MA



| Indoor Unit | | S1L | Float switch | Receiver/Display unit (Attached to infrared remote control) | |
|-------------|--|----------------------|-----------------------------|---|--|
| A1P | Printed circuit board | SS1 | Selector switch (Emergency) | A3P | Printed circuit board |
| A2P | Printed circuit board (Transformer 220 ~ 240V/16V) | V1TR | Phase control circuit | A4P | Printed circuit board |
| C1R | Capacitor (M1F) | X1M | Terminal strip | BS1 | Push button (ON/OFF) |
| HAP | Light emitting diode (Service monitor-green) | X2M | Terminal strip | H1P | Light emitting diode (ON-Red) |
| M1S | Motor (Swing flap) | RC | Signal receiver | H2P | Light emitting diode (Timer-Green) |
| M1P | Motor (Drain pump) | TC | Signal transmission circuit | H3P | Light emitting diode (Filter sign-Red) |
| Q1M | Thermo switch (M1F embedded) | | | H4P | Light emitting diode (Defrost-Orange) |
| R1T | Thermistor (Air) | | | SS1 | Selector switch (Main/Sub) |
| R2T | Thermistor (Coil) | | | SS2 | Selector switch (Wireless address set) |
| RYA | Magnetic relay (M1A) | Wired remote control | | Connector for optional parts | |
| RYP | Magnetic relay (M1P) | R1T | Thermistor (Air) | X24A | Connector (Infrared remote control) |
| STQ | Limit switch (Swing flap) | SS1 | Selector Switch (Main/Sub) | X30A | Connector (Interface adapter for sky air series) |
| | | | | X35A | Connector (Group control adapter) |

□ □ □ □ : Terminal
 ⊙ ⊙ : Connector
 - ■ - : Field wiring

COLORS : RED : Red BLK : Black
 WHT : White YLW : Yellow
 GRN : Green BLU : Blue

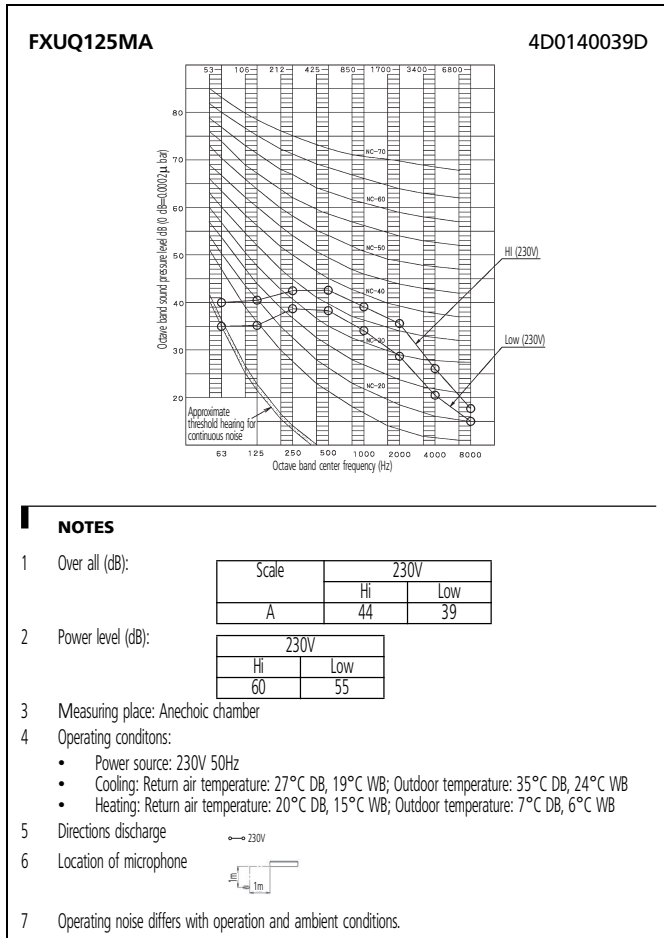
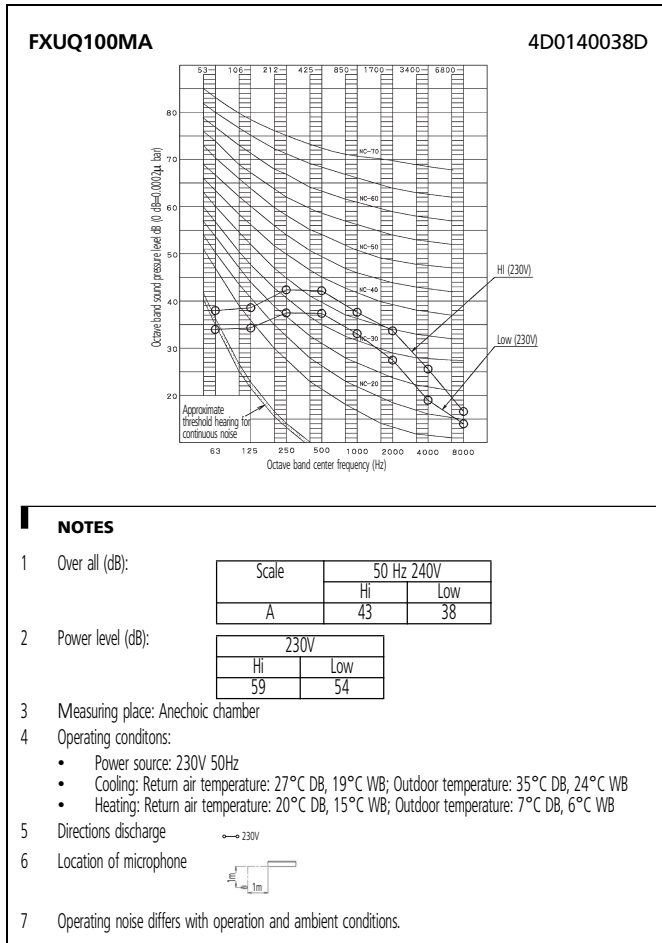
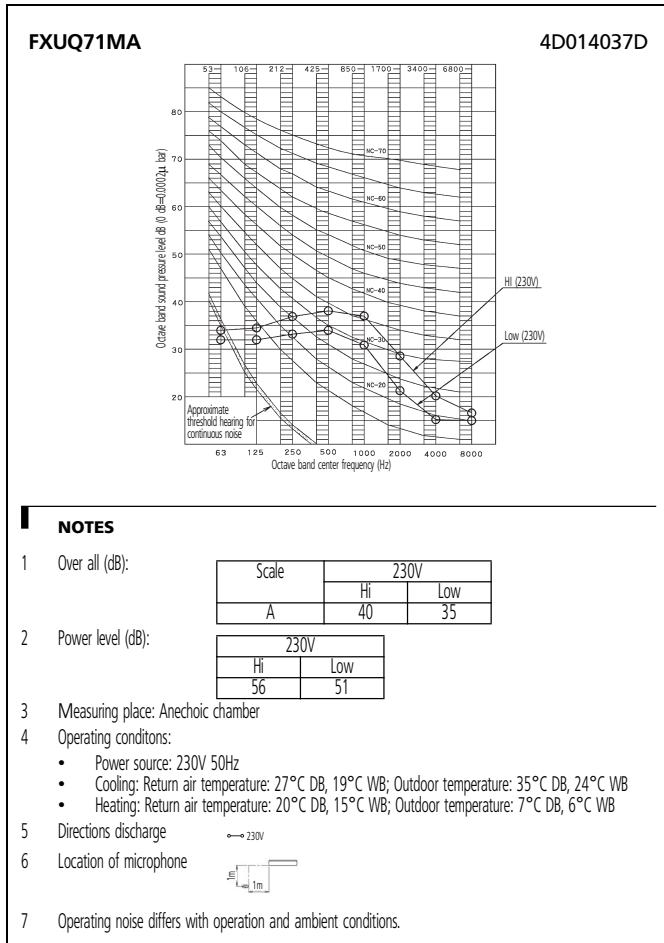
NOTES

- 1 The BEV unit shows an outline, please refer to a wiring diagram of BEV unit pasting in detail.
- 2 In case using central remote control, connect it to the unit in accordance with the attached installation manual.
- 3 X24A is connected when the infrared remote control kit is being used.
- 4 Remote control model varies according to the combination system, confirm engineering materials and catalogs, etc. before connecting.
- 5 Confirm the method of setting the selector switch (SS1, SS2) of wired remote control and infrared remote control by installation manual and engineering data, etc.

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9 Sound data

9 - 1 Sound Pressure Spectrum



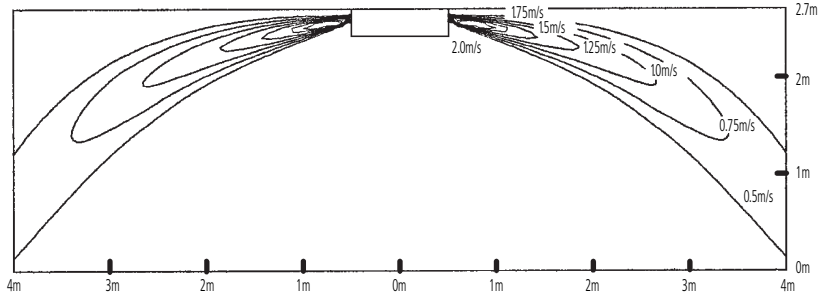
10 Air flow patterns

10 - 1 Air Flow Pattern - Cooling

FXUQ71MA

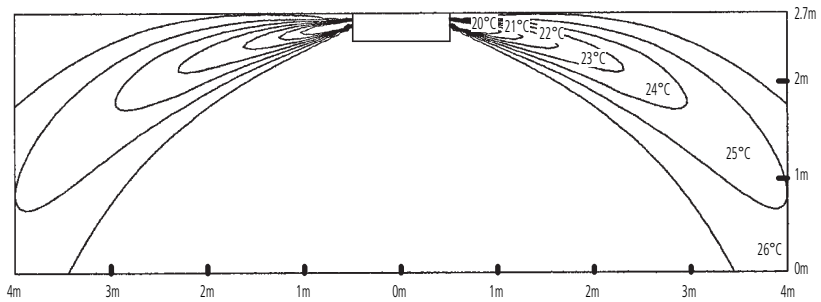
Cooling - air velocity distribution

4-way discharge, air flow direction: horizontal



Cooling - air temperature distribution

4-way discharge, air flow direction: horizontal

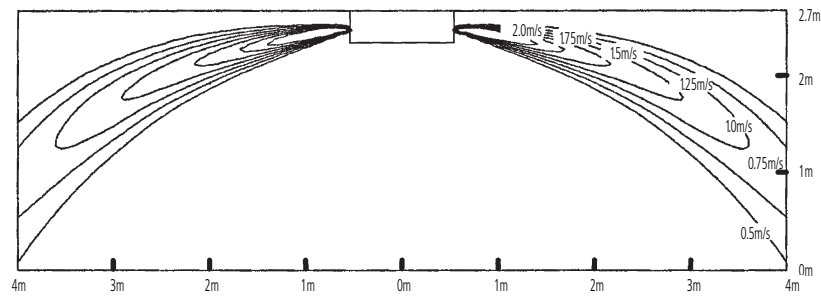


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FXUQ100MA

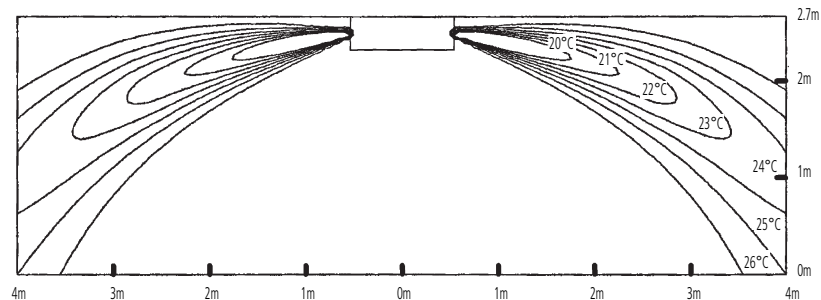
Cooling - air velocity distribution

4-way discharge, air flow direction: horizontal



Cooling - air temperature distribution

4-way discharge, air flow direction: horizontal



4D028397C

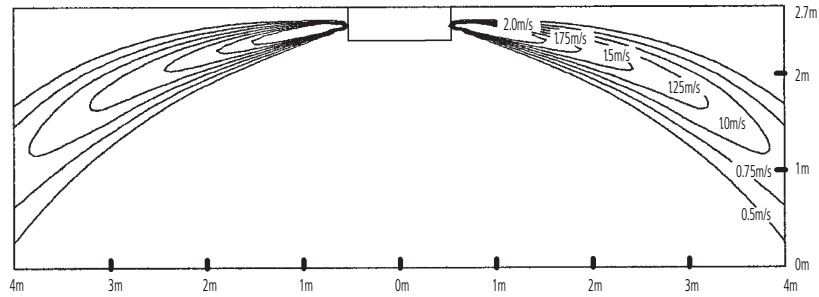
10 Air flow patterns

10 - 1 Air Flow Pattern - Cooling

FXUQ125MA

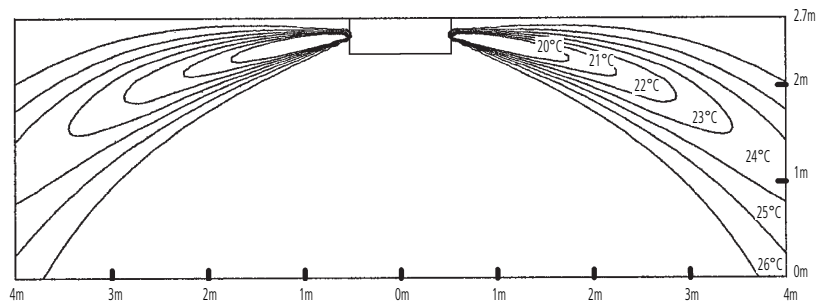
Cooling - air velocity distribution

4-way discharge, air flow direction: horizontal



Cooling - air temperature distribution

4-way discharge, air flow direction: horizontal



4D028398C

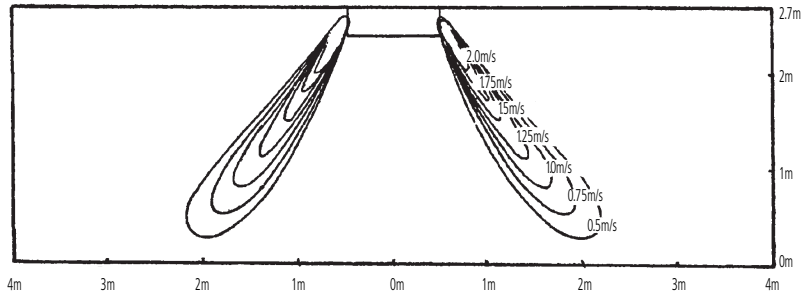
10 Air flow patterns

10 - 2 Air Flow Pattern - Heating

FXUQ71MA

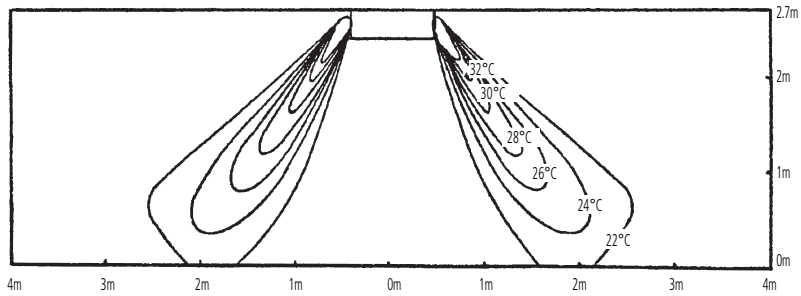
Heating - air velocity distribution

4-way discharge, air flow direction: down



Heating - air temperature distribution

4-way discharge, air flow direction: down

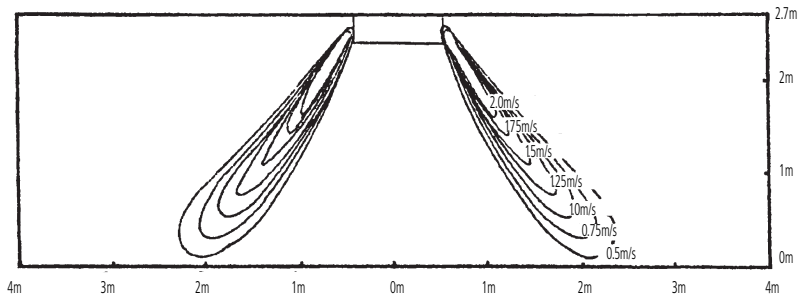


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FXUQ100MA

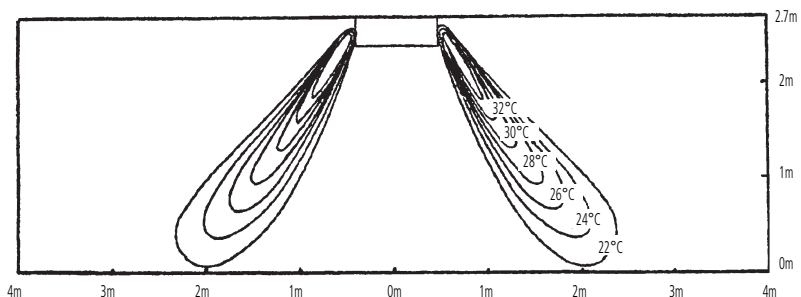
Heating - air velocity distribution

4-way discharge, air flow direction: down



Heating - air temperature distribution

4-way discharge, air flow direction: down



4D014054D

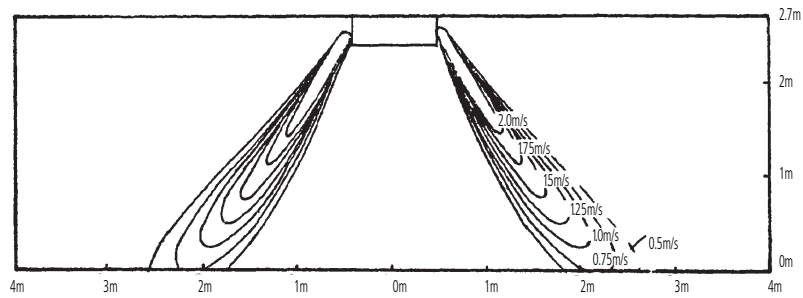
10 Air flow patterns

10 - 2 Air Flow Pattern - Heating

FXUQ125MA

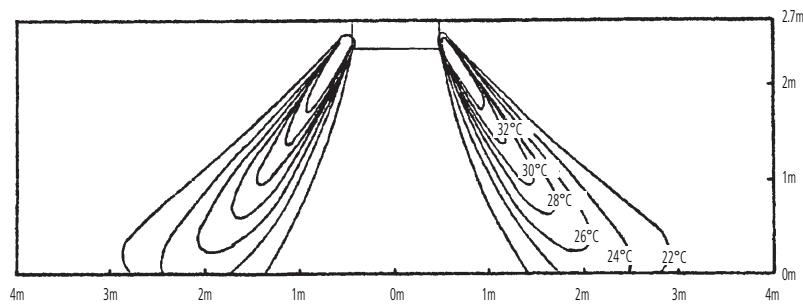
Heating - air velocity distribution

4-way discharge, air flow direction: down



Heating - air temperature distribution

4-way discharge, air flow direction: down



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11 Junction box - BEVQ-MAVE

11 - 1 Specifications

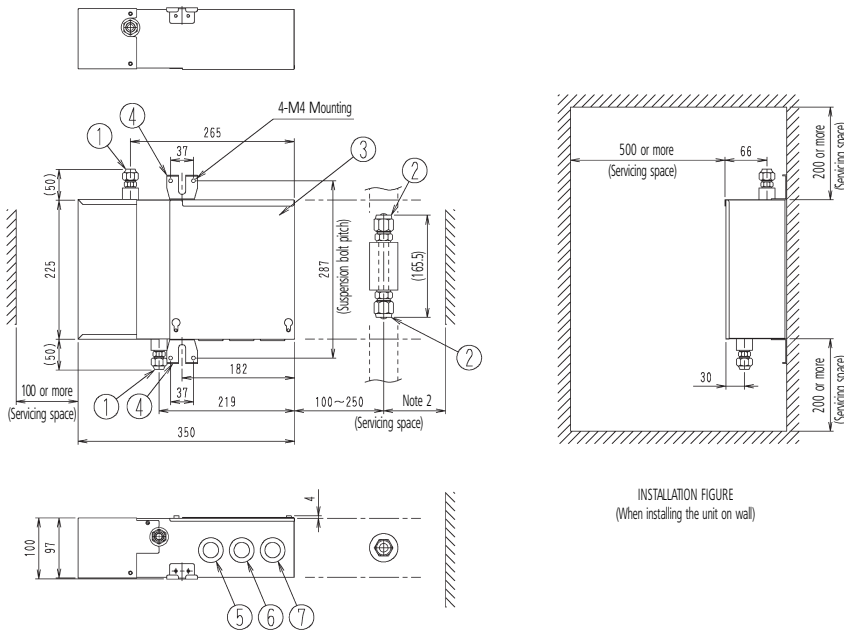
| 11-1 Technical Specifications | | | | BEVQ71MAVE | BEVQ100MAVE | BEVQ125MAVE |
|---|------------------|----------|----|--|-------------|-------------|
| Power input (Nominal) | Cooling | kW | | 0.189 | 0.298 | 0.298 |
| | Heating | kW | | 0.169 | 0.278 | 0.278 |
| Casing | Material | | | Galvanised steel plate | | |
| Dimensions | Packing | Height | mm | 100 | 100 | 100 |
| | | Width | mm | 350 | 350 | 350 |
| | | Depth | mm | 225 | 225 | 225 |
| Sound absorbing thermal insulation material | | | | Flame and heat resistant foamed polyetherene | | |
| Weight | Unit | kg | | 3.0 | 3.0 | 3.5 |
| Indoor Units | Liquid (OD) | Type | | Flare connection | | |
| | | Diameter | mm | 9.5 | 9.5 | 9.5 |
| | Gas | Type | | Flare connection | | |
| | | Diameter | mm | 15.9 | 15.9 | 15.9 |
| Outdoor Unit | Liquid (OD) | Type | | Flare connection | | |
| | | Diameter | mm | 9.5 | 9.5 | 9.5 |
| | Suction gas (OD) | Type | | Flare connection | | |
| | | Diameter | mm | 15.9 | 15.9 | 15.9 |
| Standard Accessories | Item | | | Installation manual | | |
| | | | | Gas piping connections | | |
| | | | | Insulation for fitting | | |
| | | | | Sealing material | | |
| | | | | Clamps | | |

| 11-2 Electrical Specifications | | | | BEVQ71MAVE | BEVQ100MAVE | BEVQ125MAVE |
|--------------------------------|----------------------------|----|-----|---|-------------|-------------|
| Power Supply | Name | | | VE | | |
| | Phase | | | 1 [~] | | |
| | Frequency | Hz | | 50/60 | | |
| | Voltage | V | | 220-240 | | |
| Voltage range | Minimum | V | | -10% | | |
| | Maximum | V | | +10% | | |
| Total circuit | Minimum circuit amps (MCA) | A | 0.8 | 1.3 | 1.3 | |
| | Maximum fuse amps (MFA) | A | 15 | 15 | 15 | |
| 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 | | |
| | | | | Select wire size based on MCA | | |
| | | | | Instead of a fuse, use a circuit breaker | | |
| | | | | MFA is smaller than or equal to 4 x FLA | | |
| | | | | Next lower standard fuse rating minimum 15A | | |

11 Junction box - BEVQ-MAVE

11 - 2 Dimensional drawing & centre of gravity

BEVQ-MA



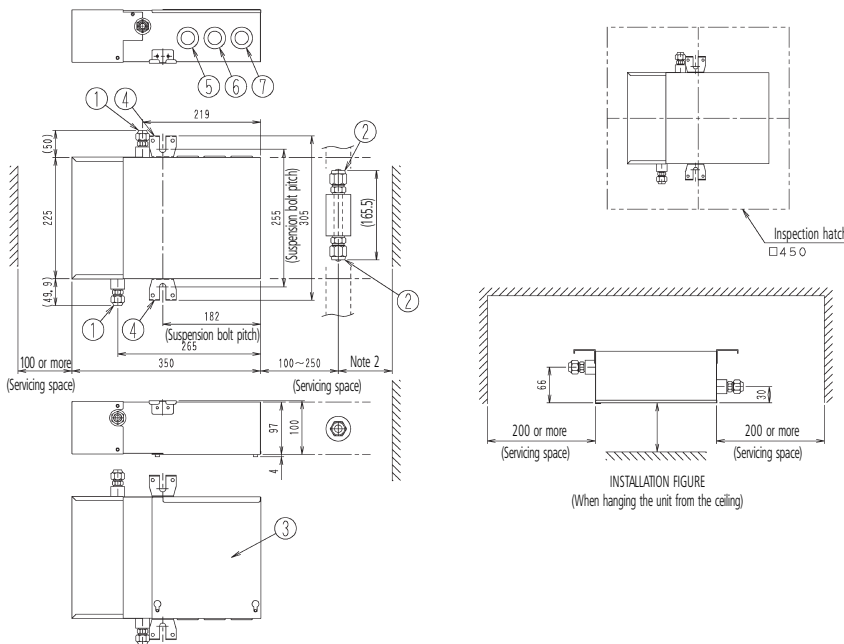
| Nr. | Part name | Description |
|-----|---|------------------------|
| 1 | Liquid pipe connection port | ø9.5 Flare connection |
| 2 | Gas pipe connection port | ø15.9 Flare connection |
| 3 | Electric parts box | |
| 4 | Suspension bolt | |
| 5 | Wire connection port (Indoor unit connection) | |
| 6 | Wire connection port (Power supply • Ground) | |
| 7 | Wire connection port (Transmission (VRV) • Gas pipe thermistor) | |

NOTES

- 1 Be sure to install wire connection port to be sure to become downward.
- 2 Be sure to secure the space which can be the tightening work of the flare nut.

3D045389

BEVQ-MA



| Nr. | Part name | Description |
|-----|---|------------------------|
| 1 | Liquid pipe connection port | ø9.5 Flare connection |
| 2 | Gas pipe connection port | ø15.9 Flare connection |
| 3 | Electric parts box | |
| 4 | Suspension bolt | |
| 5 | Wire connection port (Indoor unit connection) | |
| 6 | Wire connection port (Power supply • Ground) | |
| 7 | Wire connection port (Transmission (VRV) • Gas pipe thermistor) | |

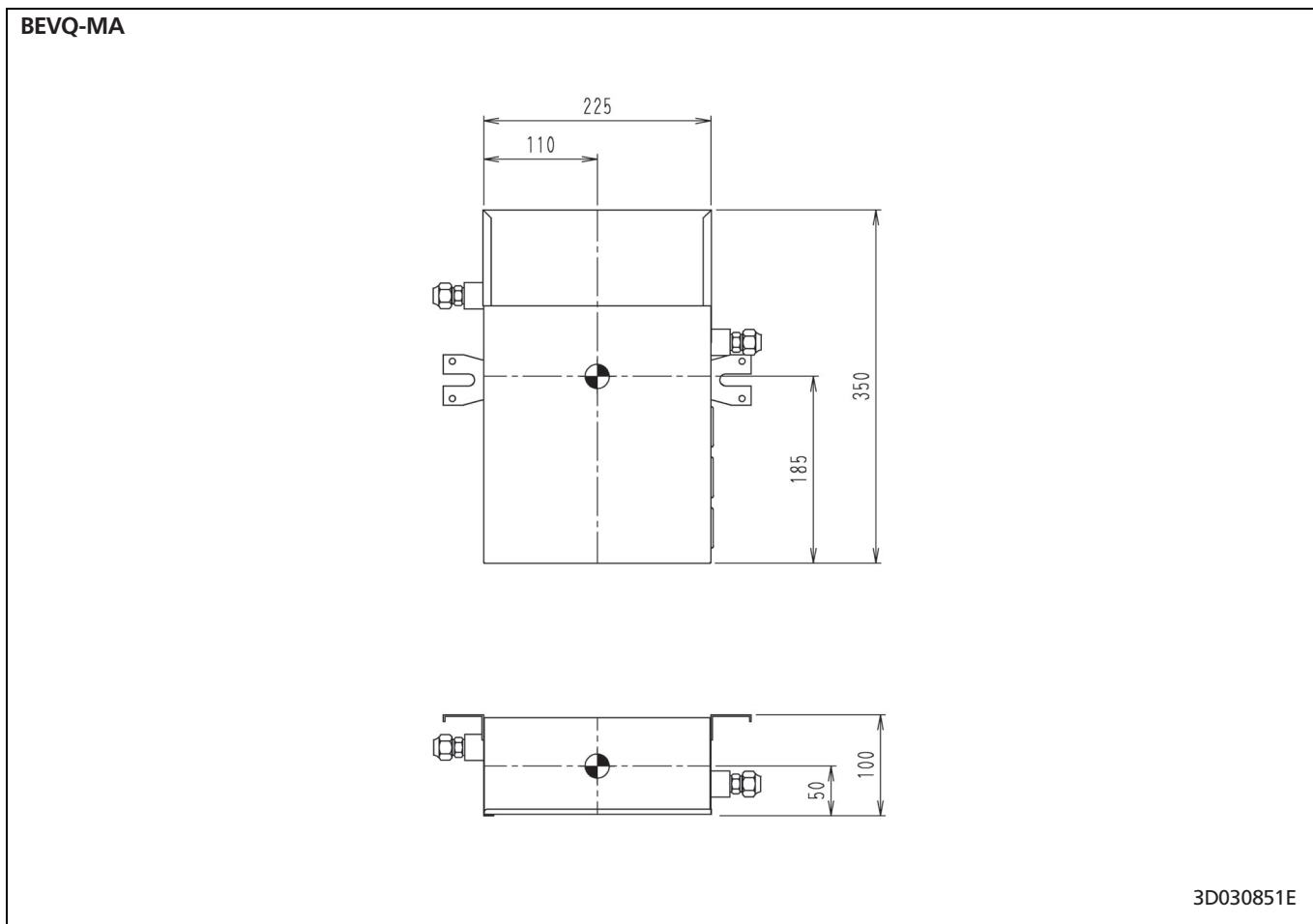
NOTES

- 1 Be sure to install wire connection port to be sure to become downward.
- 2 Be sure to secure the space which can be the tightening work of the flare nut.
- 3 Be sure to secure the space of 400 mm or more when you cannot install the inspection hatch right under the unit.

3D045390

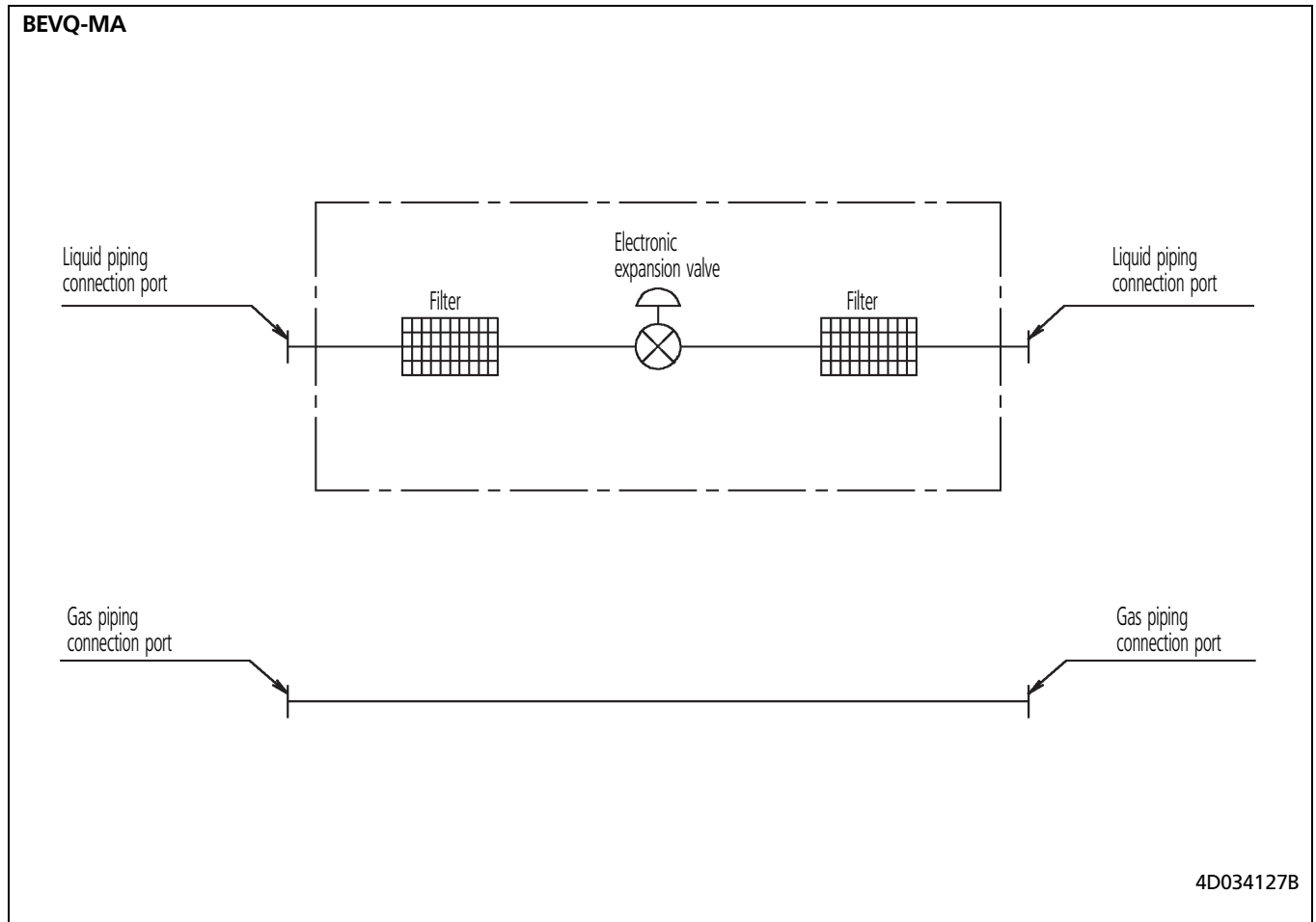
11 Junction box - BEVQ-MAVE

11 - 2 Dimensional drawing & centre of gravity



11 Junction box - BEVQ-MAVE

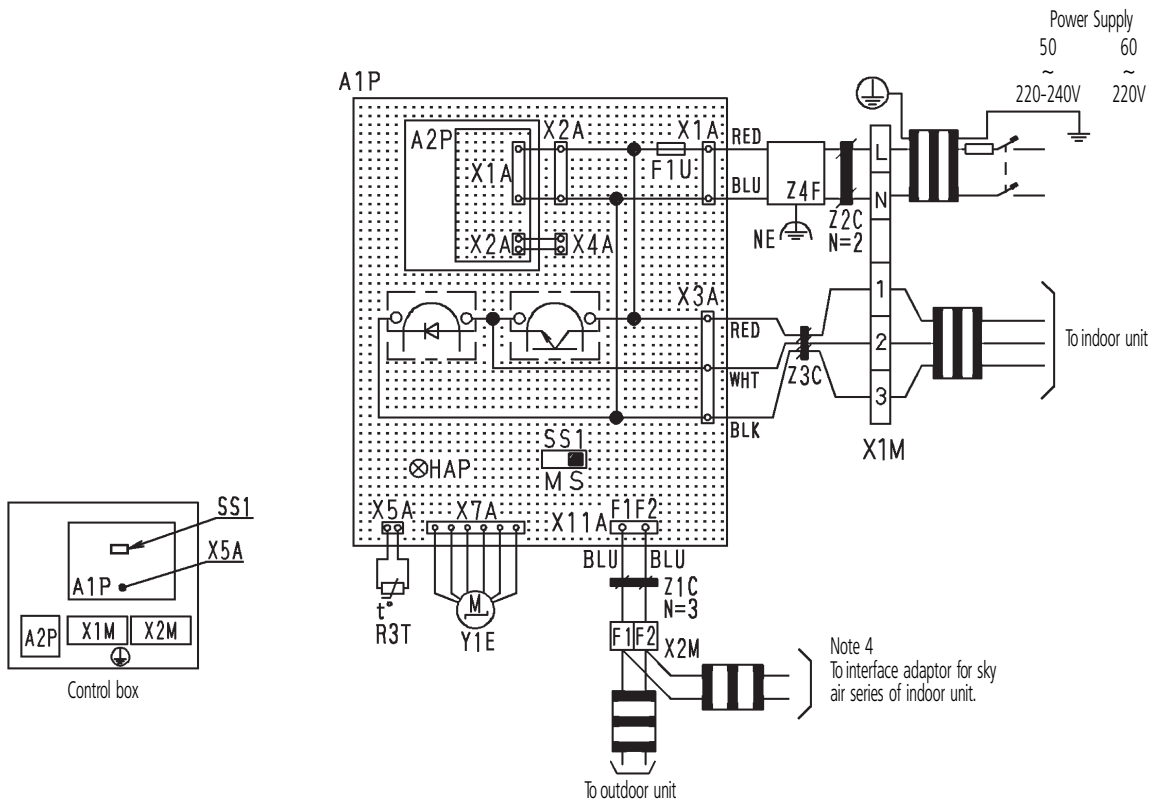
11 - 3 Piping diagram



11 Junction box - BEVQ-MAVE

11 - 4 Wiring diagram

BEVQ-MA



| | | | |
|-----|--|-----------------|-------------------------------|
| A1P | Printed circuit board Assy | SS1 | Selector switch (M/S) |
| A2P | Power supply printed circuit board Assy (220-240V/16V) | X1M | Terminal strip (Power) |
| F1U | Fuse (B, 10A/250V) | X2M | Terminal strip (Transmission) |
| HAP | Light emitting diode (Service monitor-green) | Y1E | Electronic expansion valve |
| R3T | Thermistor (Gas) | Z1C ~ Z3C / Z4F | Noise filter |

: Terminal
 : Connector
 : Field wiring

COLORS : BLU : Blue RED : Red
 WHT : White BLK : Black

NOTES

- 1 This wiring diagram only shows the BEV unit. See the wiring diagrams and installation manuals for the wiring and settings for the indoor, outdoor, and BS units.
- 2 See the indoor unit's wiring diagram when installing optional parts for the indoor unit.
- 3 Only one indoor unit may be connected to the BEV unit. See the indoor unit's wiring diagram when connecting the remote control.
- 4 Always use the sky air connection adapter for the indoor unit when using a central control unit. Refer to the manual attached the unit when connecting.
- 5 Cool/Heat changeover of indoor units connected to BEV unit cannot be carried out unless they are connected to BS unit.
In cas of a system with BEV unit only, Cool/Heat selector is required.
- 6 Set the SS1 tot "M" only for the BEV unit connected to the indoor unit which is to have Cool/Heat switching capability, when connecting the BS unit.
The "M/S" on the SS1 stands for "Main/Sub".
This is set to "S" when shipped from the factory.
- 7 Connect the attached thermistor to the R3T.

3D044901B

In all of us,
a green heart



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