



technical data

Concealed Ceiling Unit
FXMQ-PVE

air conditioning systems

R-410A



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R-410A

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FXMQ-PVE

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1 Specifications

| 1-1 Technical Specifications | | | | FXMQ40PVE | FXMQ50PVE | FXMQ63PVE | FXMQ80PVE | FXMQ100PVE | FXMQ125PVE |
|------------------------------|--------------------------|---------------|------------------------|--|--------------|-----------|-----------|------------|------------|
| Capacity | Cooling | kW | | 4.5 | 5.6 | 7.1 | 9.0 | 11.2 | 14.0 |
| | Heating | kW | | 5.0 | 6.3 | 8.0 | 10.0 | 12.5 | 16.0 |
| Power Input (50Hz) | Cooling | kW | | 0.194 | 0.215 | 0.230 | 0.298 | 0.376 | 0.461 |
| | Heating | kW | | 0.182 | 0.203 | 0.218 | 0.286 | 0.364 | 0.449 |
| Power Input (60Hz) | Cooling | kW | | 0.193 | 0.214 | 0.229 | 0.297 | 0.375 | 0.460 |
| | Heating | kW | | 0.182 | 0.203 | 0.218 | 0.286 | 0.364 | 0.449 |
| Casing | Material | | | Galvanised steel plate | | | | | |
| Dimensions | Unit | Height | mm | 300 | 300 | 300 | 300 | 300 | 300 |
| | | Width | mm | 700 | 1,000 | 1,000 | 1,000 | 1,400 | 1,400 |
| | | Depth | mm | 700 | 700 | 700 | 700 | 700 | 700 |
| Weight | Unit | | kg | 28 | 36 | 36 | 36 | 46 | 46 |
| Heat Exchanger | Dimensions | Nr of Rows | | 3 | 3 | 3 | 3 | 3 | 3 |
| | | Fin Pitch | mm | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 | 1.75 |
| | | Face Area | m ² | 0.148 | 0.249 | 0.249 | 0.249 | 0.383 | 0.383 |
| | | Nr of Stages | | 16 | 16 | 16 | 16 | 16 | 16 |
| Fan | Type | | | Sirocco fan | | | | | |
| Air Flow Rate | Cooling | High high | m ³ /min | 16 | 18 | 19.5 | 25 | 32 | 39 |
| | | High | m ³ /min | 13 | 16.5 | 17.5 | 22.5 | 27 | 33 |
| | | Low | m ³ /min | 11 | 15 | 16 | 20 | 23 | 28 |
| Fan | External static pressure | High | Pa | 160 | 200 | 200 | 200 | 200 | 200 |
| | | Standard | Pa | 100 | 100 | 100 | 100 | 100 | 100 |
| | | Low | Pa | 30 | 50 | 50 | 50 | 50 | 50 |
| | Motor | Output (high) | W | 140 | 350 | 350 | 350 | 350 | 350 |
| | | Drive | | | Direct drive | | | | |
| Piping connections | Liquid (OD) | Type | | Flare connection | | | | | |
| | | Diameter | mm | 6.35 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| | Gas | Type | | Flare connection | | | | | |
| | | Diameter | mm | 12.7 | 15.9 | 15.9 | 15.9 | 15.9 | 15.9 |
| Drain | Diameter | | VP25 (I.D. 32/O.D. 25) | | | | | | |
| Refrigerant control | | | | Electronic expansion valve | | | | | |
| Temperature control | | | | Microprocessor thermostat for cooling and heating | | | | | |
| Safety devices | | | | Fuse | | | | | |
| | | | | Fan driver overload protector | | | | | |
| Standard Accessories | | | | Operation manual | | | | | |
| | | | | Installation manual | | | | | |
| | | | | Drain hose | | | | | |
| | | | | Sealing pads | | | | | |
| | | | | Clamps | | | | | |
| | | | | Washer | | | | | |
| | | | | Screws | | | | | |
| | | | | Insulation for fitting | | | | | |
| | | | | Clamp metal | | | | | |
| | | | | Air discharge flange | | | | | |
| | | | | Air suction flange | | | | | |
| Notes | | | | Nominal cooling capacities are based on following conditions: return air temperature: 27°CDB/19°CWB; outdoor temperature: 35°CDB; standard external static pressure: 100Pa; equivalent refrigerant piping: 7.5m (horizontal) | | | | | |
| | | | | Nominal heating capacities are based on following conditions: return air temperature: 20°CDB; outdoor temperature: 7°CDB/6°CWB; standard external static pressure: 100Pa; equivalent refrigerant piping: 7.5m (horizontal) | | | | | |
| | | | | Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. | | | | | |
| | | | | External static pressure is changeable in 13 or 14 stages within the () range by the remote control. | | | | | |
| | | | | Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its colorimetric method(gravity method) 50% or more. | | | | | |

1

1 Specifications

| 1-2 Electrical Specifications (50Hz) | | | FXMQ40PVE | FXMQ50PVE | FXMQ63PVE | FXMQ80PVE | FXMQ100PVE | FXMQ125PVE | |
|--------------------------------------|----------------------------|----|--|-----------|-----------|-----------|------------|------------|--|
| Power Supply | Name | VE | | | | | | | |
| | Phase | 1~ | | | | | | | |
| | Frequency | Hz | 50 | | | | | | |
| | Voltage | V | 220-240 | | | | | | |
| Current | Minimum circuit amps (MCA) | A | 1.4 | 1.6 | 1.8 | 2.3 | 2.9 | 3.4 | |
| | Maximum fuse amps (MFA) | A | 16 | 16 | 16 | 16 | 16 | 16 | |
| | Full load amps (FLA) | A | 1.1 | 1.3 | 1.4 | 1.8 | 2.3 | 2.7 | |
| 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 is smaller than or equal to 4 x FLA | | | | | | |
| | | | Next lower standard fuse rating minimum 16A | | | | | | |
| | | | Select wire size based on the MCA Instead of a fuse, use a circuit breaker | | | | | | |

| 1-3 Electrical Specifications (60Hz) | | | FXMQ40PVE | FXMQ50PVE | FXMQ63PVE | FXMQ80PVE | FXMQ100PVE | FXMQ125PVE | |
|--------------------------------------|----------------------------|----|--|-----------|-----------|-----------|------------|------------|--|
| Power Supply | Name | VE | | | | | | | |
| | Phase | 1~ | | | | | | | |
| | Frequency | Hz | 60 | | | | | | |
| | Voltage | V | 220 | 220 | 220 | 220 | 220 | 220 | |
| Current | Minimum circuit amps (MCA) | A | 1.4 | 1.6 | 1.8 | 2.3 | 2.9 | 3.4 | |
| | Maximum fuse amps (MFA) | A | 16 | 16 | 16 | 16 | 16 | 16 | |
| | Full load amps (FLA) | A | 1.1 | 1.3 | 1.4 | 1.8 | 2.3 | 2.7 | |
| 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 is smaller than or equal to 4 x FLA | | | | | | |
| | | | Next lower standard fuse rating minimum 16A | | | | | | |
| | | | Select wire size based on the MCA Instead of a fuse, use a circuit breaker | | | | | | |

2 Safety device settings

FXMQ-P

| | Safety devices | 40 | 50 | 63 | 80 | 100 | 125 |
|----------|----------------------------|------------|------------|------------|------------|------------|------------|
| FXMQ-PVE | PC board fuse | 250V 3.15A | 250V 3.15A | 250V 3.15A | 250V 3.15A | 250V 3.15A | 250V 3.15A |
| | PC board fuse (Fan driver) | 250V 5A | 250V 6.3A | 250V 6.3A | 250V 6.3A | 250V 6.3A | 250V 6.3A |
| | Drain pump thermal fuse | 145 | 145 | 145 | 145 | 145 | 145 |

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3 Options

FXMQ-P

| Item | Model | DUCT TYPE | | | | | |
|--|-------|------------|------------|-----------|-----------|-------------|------------|
| | | FXMQ40PVE | FXMQ50PVE | FXMQ63PVE | FXMQ80PVE | FXMQ100PVE | FXMQ125PVE |
| High efficiency filter | 65% | KAF372AA56 | KAF372AA80 | | | KAF372AA160 | |
| | 90% | KAF373AA56 | KAF373AA80 | | | KAF373AA160 | |
| Filter chamber | | KDDF37AA56 | KDDF37AA80 | | | KDDF37AA160 | |
| long life replacement filter | | KAF371AA56 | KAF371AA80 | | | KAF371AA160 | |
| Long life replacement filter chamber kit | | KAF375AA56 | KAF375AA80 | | | KAF375AA160 | |
| Service panel | | KTBJ25K56W | KTBJ25K80W | | | KTBJ25K160W | |
| | | KTBJ25K56F | KTBJ25K80F | | | KTBJ25K160F | |
| | | KTBJ25K56T | KTBJ25K80T | | | KTBJ25K160T | |
| Air discharge adapter | | KDAJ25K56A | KDAJ25K80A | | | KDAJ25K160A | |

NOTE

- 1 See the latest for the modification marks

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4 Control systems

FXMQ-P

| No. | Item | | Type | FXMQ~PVE |
|-----|--|----------|------------|-----------------------------------|
| 1 | Remote control | Wireless | H/P C/O | BRC4C65 |
| | | | | BRC4C66 |
| | | Wired | | BRC1D52/BRC1D615 ⁴ |
| 2 | Simplified remote control | | | BRC2C51 |
| 3 | Remote control for hotel use | | | BRC3A61 |
| 4 | Adaptor for wiring | | | ★KRP1C64 |
| 5-1 | Wiring adaptor for electrical appendices (1) | | | ★KRP2A61 |
| 5-1 | Wiring adaptor for electrical appendices (2) | | | ★KRP4AA51 |
| 6 | Remote sensor | | | KRCS01-4B |
| 7 | Mounting plate for adapter PCB | | | Note 2, 3 KRP4A96 |
| 8 | Central remote control | | | DCS302C51/DCS302CA61 ⁴ |
| 8-1 | Residential central remote control | | | DCS303A51 ^{4,5} |
| 8-2 | Electrical box with earth terminal (3 blocks) | | | KJB311A |
| 9 | Unified on/off control | | | DCS301B51/DCS301BA61 ⁴ |
| 9-1 | Electrical box with earth terminal (2 blocks) | | | KJB212A |
| 9-2 | Noise filter (for electromagnetic interface use only) | | | KEK26-1A |
| 10 | Schedule timer | | | DST301B51/DST301BA61 ⁴ |
| 11 | External control adaptor for outdoor unit (Must be installed on indoor units) | | | ★DTA104A61 |

NOTES

- 1 Mounting plate (No.7) is necessary for each adapter marked ★.
- 2 Up to 2 adapters can be fixed for each mounting plate.
- 3 Only one mounting plate can be installed for each indoor unit.
- 4 For DAME only
- 5 For residential use only. Cannot be used with other centralised control equipment.

3D060455

5 Capacity tables

5 - 1 Cooling capacity tables

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| FXMQ-P | | | 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 |
| 40 | 4.5 | 10.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.8 | 3.8 | 5.4 | 3.9 | 5.7 | 4.0 |
| | | 12.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.8 | 3.8 | 5.4 | 3.9 | 5.6 | 4.0 |
| | | 14.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.8 | 3.8 | 5.4 | 3.9 | 5.5 | 4.0 |
| | | 16.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.8 | 3.8 | 5.4 | 3.9 | 5.5 | 3.9 |
| | | 18.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.8 | 3.8 | 5.3 | 3.9 | 5.4 | 3.9 |
| | | 20.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.8 | 3.8 | 5.2 | 3.8 | 5.3 | 3.9 |
| | | 21.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.8 | 3.8 | 5.2 | 3.8 | 5.3 | 3.8 |
| | | 23.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.8 | 3.8 | 5.1 | 3.8 | 5.2 | 3.8 |
| | | 25.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.8 | 3.8 | 5.0 | 3.7 | 5.1 | 3.8 |
| | | 27.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.8 | 3.8 | 5.0 | 3.7 | 5.1 | 3.7 |
| | | 29.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.8 | 3.8 | 4.9 | 3.7 | 5.0 | 3.7 |
| | | 31.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.7 | 3.8 | 4.8 | 3.6 | 4.9 | 3.6 |
| | | 33.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.8 | 4.5 | 3.8 | 4.6 | 3.7 | 4.7 | 3.6 | 4.8 | 3.6 |
| | | 35.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.2 | 4.5 | 3.8 | 4.6 | 3.7 | 4.7 | 3.5 | 4.8 | 3.6 |
| | | 37.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.2 | 4.4 | 3.8 | 4.5 | 3.6 | 4.6 | 3.5 | 4.7 | 3.5 |
| 39.0 | 3.0 | 2.9 | 3.6 | 3.4 | 4.2 | 3.2 | 4.4 | 3.7 | 4.4 | 3.6 | 4.5 | 3.4 | 4.6 | 3.5 | | |
| 50 | 5.6 | 10.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 6.0 | 4.6 | 6.7 | 4.8 | 7.1 | 4.3 |
| | | 12.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 6.0 | 4.6 | 6.7 | 4.8 | 7.0 | 4.3 |
| | | 14.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 6.0 | 4.6 | 6.7 | 4.8 | 6.9 | 4.2 |
| | | 16.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 6.0 | 4.6 | 6.7 | 4.8 | 6.8 | 4.1 |
| | | 18.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 6.0 | 4.6 | 6.6 | 4.7 | 6.7 | 4.1 |
| | | 20.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 6.0 | 4.6 | 6.5 | 4.7 | 6.6 | 4.0 |
| | | 21.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 6.0 | 4.6 | 6.4 | 4.6 | 6.6 | 4.0 |
| | | 23.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 6.0 | 4.6 | 6.4 | 4.6 | 6.5 | 4.0 |
| | | 25.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 6.0 | 4.6 | 6.3 | 4.5 | 6.4 | 3.9 |
| | | 27.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 6.0 | 4.6 | 6.2 | 4.5 | 6.3 | 3.8 |
| | | 29.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 5.9 | 4.6 | 6.1 | 4.4 | 6.2 | 3.8 |
| | | 31.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 5.9 | 4.6 | 6.0 | 4.4 | 6.1 | 3.7 |
| | | 33.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 5.8 | 4.5 | 5.9 | 4.3 | 6.0 | 3.7 |
| | | 35.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.6 | 4.6 | 5.7 | 4.5 | 5.8 | 4.3 | 5.9 | 3.6 |
| | | 37.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.5 | 4.6 | 5.6 | 4.4 | 5.7 | 4.2 | 5.8 | 3.6 |
| 39.0 | 3.8 | 3.6 | 4.5 | 4.1 | 5.2 | 4.5 | 5.4 | 4.5 | 5.5 | 4.4 | 5.6 | 4.2 | 5.8 | 3.5 | | |
| 63 | 7.1 | 10.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.6 | 5.6 | 8.5 | 5.8 | 9.0 | 6.4 |
| | | 12.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.6 | 5.6 | 8.5 | 5.8 | 8.9 | 6.3 |
| | | 14.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.6 | 5.6 | 8.5 | 5.8 | 8.7 | 6.3 |
| | | 16.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.6 | 5.6 | 8.5 | 5.8 | 8.6 | 6.3 |
| | | 18.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.6 | 5.6 | 8.3 | 5.8 | 8.5 | 6.2 |
| | | 20.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.6 | 5.6 | 8.2 | 5.7 | 8.4 | 6.2 |
| | | 21.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.6 | 5.6 | 8.2 | 5.7 | 8.3 | 6.2 |
| | | 23.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.6 | 5.6 | 8.1 | 5.6 | 8.2 | 6.1 |
| | | 25.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.6 | 5.6 | 7.9 | 5.6 | 8.1 | 6.1 |
| | | 27.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.6 | 5.6 | 7.8 | 5.5 | 8.0 | 6.1 |
| | | 29.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.5 | 5.6 | 7.7 | 5.4 | 7.9 | 6.0 |
| | | 31.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.4 | 5.5 | 7.6 | 5.4 | 7.8 | 6.0 |
| | | 33.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.3 | 5.5 | 7.5 | 5.3 | 7.6 | 5.9 |
| | | 35.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.1 | 5.5 | 7.2 | 5.4 | 7.4 | 5.3 | 7.5 | 5.9 |
| | | 37.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 7.0 | 5.5 | 7.1 | 5.4 | 7.2 | 5.2 | 7.4 | 5.9 |
| 39.0 | 4.8 | 4.2 | 5.7 | 4.9 | 6.6 | 5.4 | 6.9 | 5.4 | 7.0 | 5.3 | 7.1 | 5.1 | 7.3 | 5.8 | | |
| 80 | 9.0 | 10.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.6 | 7.1 | 10.8 | 7.4 | 11.4 | 7.4 |
| | | 12.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.6 | 7.1 | 10.8 | 7.4 | 11.2 | 7.4 |
| | | 14.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.6 | 7.1 | 10.8 | 7.4 | 11.1 | 7.3 |
| | | 16.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.6 | 7.1 | 10.7 | 7.4 | 10.9 | 7.2 |
| | | 18.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.6 | 7.1 | 10.6 | 7.3 | 10.8 | 7.2 |
| | | 20.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.6 | 7.1 | 10.4 | 7.2 | 10.6 | 7.1 |
| | | 21.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.6 | 7.1 | 10.4 | 7.2 | 10.6 | 7.1 |
| | | 23.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.6 | 7.1 | 10.2 | 7.1 | 10.4 | 7.0 |
| | | 25.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.6 | 7.1 | 10.1 | 7.0 | 10.3 | 6.9 |
| | | 27.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.6 | 7.1 | 9.9 | 7.0 | 10.1 | 6.9 |
| | | 29.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.5 | 7.1 | 9.8 | 6.9 | 10.0 | 6.8 |
| | | 31.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.4 | 7.0 | 9.6 | 6.8 | 9.8 | 6.7 |
| | | 33.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.3 | 7.0 | 9.5 | 6.7 | 9.7 | 6.7 |
| | | 35.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 9.0 | 7.0 | 9.1 | 6.9 | 9.3 | 6.6 | 9.5 | 6.6 |
| | | 37.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 8.9 | 6.9 | 9.0 | 6.8 | 9.2 | 6.6 | 9.4 | 6.5 |
| 39.0 | 6.1 | 5.3 | 7.2 | 6.1 | 8.4 | 6.9 | 8.7 | 6.8 | 8.8 | 6.7 | 9.0 | 6.5 | 9.3 | 6.5 | | |

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5

5 Capacity tables

5 - 1 Cooling capacity tables

| FXMQ-P | | 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 |
| 100 | 11.2 | 10.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.9 | 8.7 | 13.4 | 9.0 | 14.2 | 8.9 |
| | | 12.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.9 | 8.7 | 13.4 | 9.0 | 14.0 | 8.9 |
| | | 14.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.9 | 8.7 | 13.4 | 9.0 | 13.8 | 8.8 |
| | | 16.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.9 | 8.7 | 13.3 | 9.0 | 13.6 | 8.7 |
| | | 18.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.9 | 8.7 | 13.2 | 8.9 | 13.4 | 8.6 |
| | | 20.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.9 | 8.7 | 13.0 | 8.8 | 13.2 | 8.5 |
| | | 21.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.9 | 8.7 | 12.9 | 8.8 | 13.2 | 8.5 |
| | | 23.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.9 | 8.7 | 12.7 | 8.7 | 13.0 | 8.4 |
| | | 25.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.9 | 8.7 | 12.5 | 8.6 | 12.8 | 8.3 |
| | | 27.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.9 | 8.7 | 12.3 | 8.5 | 12.6 | 8.2 |
| | | 29.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.9 | 8.6 | 12.2 | 8.4 | 12.4 | 8.1 |
| | | 31.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.7 | 8.5 | 12.0 | 8.3 | 12.2 | 8.0 |
| | | 33.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.5 | 8.5 | 11.8 | 8.2 | 12.1 | 7.9 |
| | | 35.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.2 | 8.5 | 11.3 | 8.4 | 11.6 | 8.1 | 11.9 | 7.8 |
| | | 37.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 11.0 | 8.4 | 11.2 | 8.3 | 11.4 | 8.0 | 11.7 | 7.7 |
| 39.0 | 7.6 | 6.4 | 9.0 | 7.3 | 10.5 | 8.3 | 10.8 | 8.3 | 11.0 | 8.2 | 11.2 | 7.9 | 11.5 | 7.6 | | |
| 125 | 14.0 | 10.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.9 | 10.8 | 16.7 | 11.1 | 17.7 | 11.1 |
| | | 12.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.9 | 10.8 | 16.7 | 11.1 | 17.5 | 11.0 |
| | | 14.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.9 | 10.8 | 16.7 | 11.1 | 17.2 | 10.9 |
| | | 16.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.9 | 10.8 | 16.7 | 11.1 | 17.0 | 10.8 |
| | | 18.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.9 | 10.8 | 16.4 | 11.0 | 16.8 | 10.7 |
| | | 20.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.9 | 10.8 | 16.2 | 10.9 | 16.6 | 10.6 |
| | | 21.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.9 | 10.8 | 16.1 | 10.9 | 16.4 | 10.5 |
| | | 23.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.9 | 10.8 | 15.9 | 10.8 | 16.2 | 10.4 |
| | | 25.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.9 | 10.8 | 15.6 | 10.6 | 16.0 | 10.3 |
| | | 27.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.9 | 10.8 | 15.4 | 10.5 | 15.8 | 10.2 |
| | | 29.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.9 | 10.7 | 15.2 | 10.4 | 15.5 | 10.1 |
| | | 31.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.6 | 10.6 | 15.0 | 10.3 | 15.3 | 10.0 |
| | | 33.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.4 | 10.5 | 14.7 | 10.2 | 15.1 | 9.8 |
| | | 35.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 14.0 | 10.5 | 14.2 | 10.4 | 14.5 | 10.1 | 14.9 | 9.7 |
| | | 37.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 13.8 | 10.4 | 13.9 | 10.3 | 14.3 | 10.0 | 14.6 | 9.6 |
| 39.0 | 9.4 | 8.0 | 11.3 | 9.2 | 13.1 | 10.3 | 13.5 | 10.3 | 13.7 | 10.2 | 14.1 | 9.9 | 14.4 | 9.5 | | |

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5 Capacity tables

5 - 2 Heating capacity tables

5

| FXMQ-P | | | | TC: Total capacity;KW – SHC: Sensible capacity;KW | | | | | |
|-----------|------------------|-------------------|-------|---|------|------|------|------|------|
| Unit size | Nominal capacity | Outdoor air temp. | | Indoor air temperature | | | | | |
| | | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | | °CDB | °CWB | KW | KW | KW | KW | KW | KW |
| 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 | | |
| 50 | 6.3 | -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 | | |
| 80 | 10.0 | -19.8 | -20.0 | 5.9 | 5.9 | 5.9 | 5.9 | 5.9 | 5.8 |
| | | -18.8 | -19.0 | 6.1 | 6.1 | 6.0 | 6.0 | 6.0 | 6.0 |
| | | -16.7 | -17.0 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 | 6.4 |
| | | -14.7 | -15.0 | 6.8 | 6.8 | 6.8 | 6.7 | 6.7 | 6.7 |
| | | -12.6 | -13.0 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 | 7.1 |
| | | -10.5 | -11.0 | 7.5 | 7.5 | 7.5 | 7.5 | 7.4 | 7.4 |
| | | -9.5 | -10.0 | 7.7 | 7.7 | 7.6 | 7.6 | 7.6 | 7.6 |
| | | -8.5 | -9.1 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 | 7.8 |
| | | -7.0 | -7.6 | 8.1 | 8.1 | 8.1 | 8.1 | 8.0 | 8.0 |
| | | -5.0 | -5.6 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| | | -3.0 | -3.7 | 8.8 | 8.8 | 8.7 | 8.7 | 8.7 | 8.7 |
| | | 0.0 | -0.7 | 9.3 | 9.3 | 9.3 | 9.3 | 9.3 | 8.7 |
| | | 3.0 | 2.2 | 9.8 | 9.8 | 9.8 | 9.7 | 9.4 | 8.7 |
| | | 5.0 | 4.1 | 10.2 | 10.1 | 10.0 | 9.7 | 9.4 | 8.7 |
| | | 7.0 | 6.0 | 10.5 | 10.5 | 10.0 | 9.7 | 9.4 | 8.7 |
| | | 9.0 | 7.9 | 10.8 | 10.6 | 10.0 | 9.7 | 9.4 | 8.7 |
| 11.0 | 9.8 | 11.2 | 10.6 | 10.0 | 9.7 | 9.4 | 8.7 | | |
| 13.0 | 11.8 | 11.3 | 10.6 | 10.0 | 9.7 | 9.4 | 8.7 | | |
| 15.0 | 13.7 | 11.3 | 10.6 | 10.0 | 9.7 | 9.4 | 8.7 | | |

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5 Capacity tables

5 - 2 Heating capacity tables

| FXMQ-P | | | | TC: Total capacity;kW – SHC: Sensible capacity;kW | | | | | |
|-----------|------------------|-------------------|-------|---|------|------|------|------|------|
| Unit size | Nominal capacity | Outdoor air temp. | | Indoor air temperature | | | | | |
| | | | | 16.0 | 18.0 | 20.0 | 21.0 | 22.0 | 24.0 |
| | | °CDB | °CWB | KW | KW | KW | KW | KW | KW |
| 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 | 16.0 | -19.8 | -20.0 | 9.4 | 9.4 | 9.4 | 9.4 | 9.4 | 9.3 |
| | | -18.8 | -19.0 | 9.7 | 9.7 | 9.7 | 9.7 | 9.6 | 9.6 |
| | | -16.7 | -17.0 | 10.3 | 10.3 | 10.2 | 10.2 | 10.2 | 10.2 |
| | | -14.7 | -15.0 | 10.9 | 10.8 | 10.8 | 10.8 | 10.8 | 10.7 |
| | | -12.6 | -13.0 | 11.4 | 11.4 | 11.4 | 11.4 | 11.3 | 11.3 |
| | | -10.5 | -11.0 | 12.0 | 12.0 | 11.9 | 11.9 | 11.9 | 11.9 |
| | | -9.5 | -10.0 | 12.3 | 12.2 | 12.2 | 12.2 | 12.2 | 12.2 |
| | | -8.5 | -9.1 | 12.5 | 12.5 | 12.5 | 12.5 | 12.4 | 12.4 |
| | | -7.0 | -7.6 | 13.0 | 12.9 | 12.9 | 12.9 | 12.9 | 12.8 |
| | | -5.0 | -5.6 | 13.5 | 13.5 | 13.5 | 13.4 | 13.4 | 13.4 |
| | | -3.0 | -3.7 | 14.1 | 14.0 | 14.0 | 14.0 | 14.0 | 13.9 |
| | | 0.0 | -0.7 | 14.9 | 14.9 | 14.8 | 14.8 | 14.8 | 13.9 |
| | | 3.0 | 2.2 | 15.7 | 15.7 | 15.7 | 15.5 | 15.0 | 13.9 |
| | | 5.0 | 4.1 | 16.3 | 16.2 | 16.0 | 15.5 | 15.0 | 13.9 |
| | | 7.0 | 6.0 | 16.8 | 16.8 | 16.0 | 15.5 | 15.0 | 13.9 |
| | | 9.0 | 7.9 | 17.3 | 17.0 | 16.0 | 15.5 | 15.0 | 13.9 |
| | | 11.0 | 9.8 | 17.9 | 17.0 | 16.0 | 15.5 | 15.0 | 13.9 |
| 13.0 | 11.8 | 18.1 | 17.0 | 16.0 | 15.5 | 15.0 | 13.9 | | |
| 15.0 | 13.7 | 18.1 | 17.0 | 16.0 | 15.5 | 15.0 | 13.9 | | |

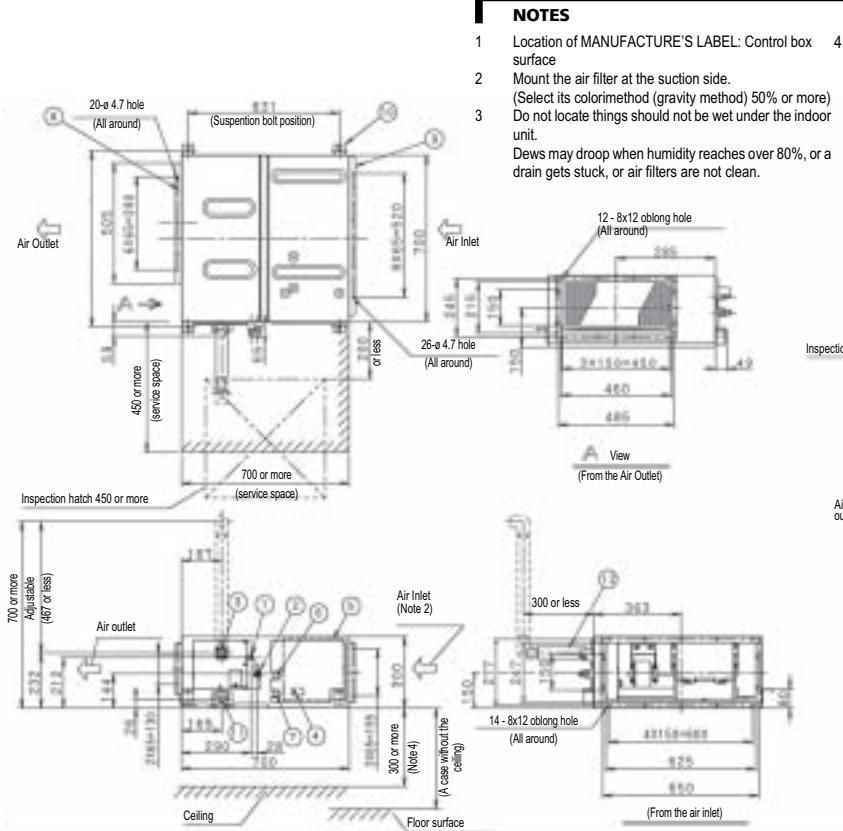
CA08A056

6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

6

FXMQ40P

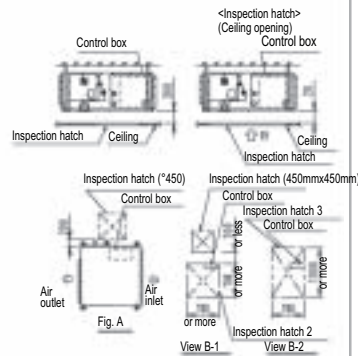


- NOTES**
- 1 Location of MANUFACTURE'S LABEL: Control box surface
 - 2 Mount the air filter at the suction side. (Select its color/method (gravity method) 50% or more)
 - 3 Do not locate things should not be wet under the indoor unit. Dews may droop when humidity reaches over 80%, or a drain gets stuck, or air filters are not clean.

Space for Service Works

According to any one of below 1) - 3), secure a space for service works, such as, checking and maintenance of control box and drain pumps, etc.

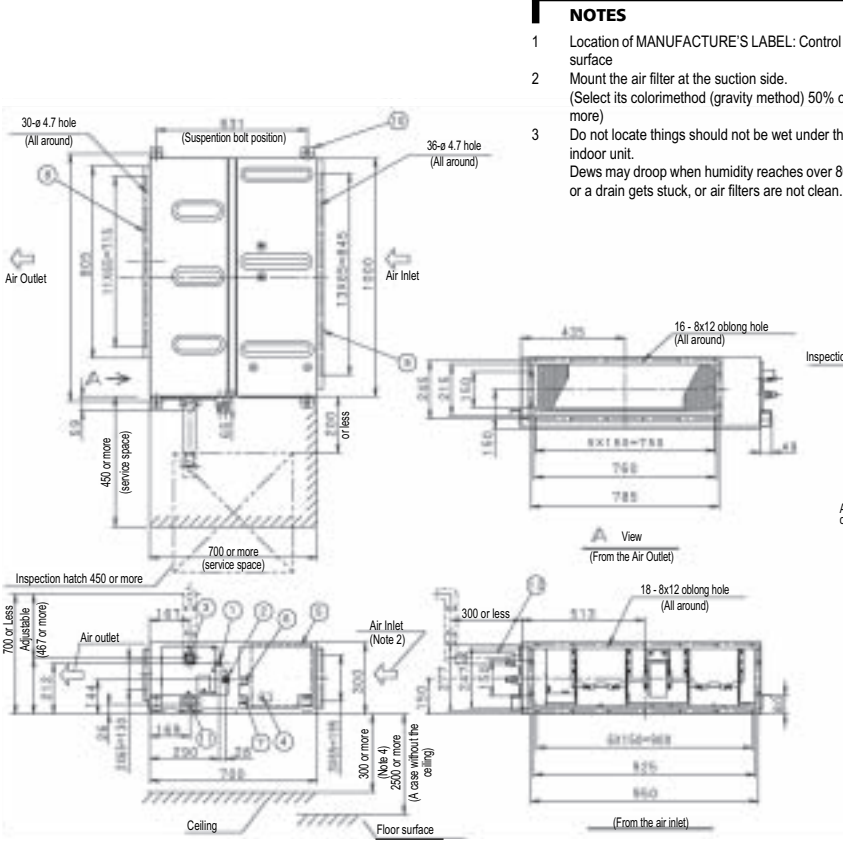
- 1) One inspection hatch (450x450) on the control box side and a space of 300mm or more under the unit. (Fig.A)
- 2) One inspection hatch (450x450) on the control box side and 2 (two) inspection hatches under the unit (Arrow view B-1)
- 3) 3 (three) inspection hatches under the unit and the control box. (Arrow view B-2)



| | | |
|------|----------------------------------|------------------------------|
| 12 | Drain hose (accessory) | O.D. ø 32 (outlet) |
| 11 | Socket (for maintenance) | VP25 (O.D. ø 32 / I.D. ø 25) |
| 10 | Hook | For M10 |
| 9 | Air suction flange | |
| 8 | Air discharge flange | |
| 7 | Power supply connection | |
| 6 | Interunit wiring connection | |
| 5 | Control box (inside) | |
| 4 | Ground terminal (in control box) | M4 |
| 3 | Drain pipe connection | VP25 (O.D. ø 32 / I.D. ø 25) |
| 2 | Gas pipe connection | ø 12.7 flange connection |
| 1 | Liquid pipe connection | ø 6.4 flange connection |
| ITEM | PART NAME | REMARK |

3D060160

FXMQ40,63,80P

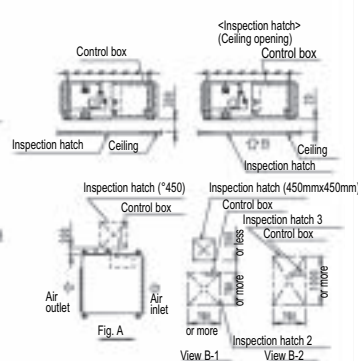


- NOTES**
- 1 Location of MANUFACTURE'S LABEL: Control box surface
 - 2 Mount the air filter at the suction side. (Select its color/method (gravity method) 50% or more)
 - 3 Do not locate things should not be wet under the indoor unit. Dews may droop when humidity reaches over 80%, or a drain gets stuck, or air filters are not clean.

Space for Service Works

According to any one of below 1) - 3), secure a space for service works, such as, checking and maintenance of control box and drain pumps, etc.

- 1) One inspection hatch (450x450) on the control box side and a space of 300mm or more under the unit. (Fig.A)
- 2) One inspection hatch (450x450) on the control box side and 2 (two) inspection hatches under the unit (Arrow view B-1)
- 3) 3 (three) inspection hatches under the unit and the control box. (Arrow view B-2)



| | | |
|------|----------------------------------|------------------------------|
| 12 | Drain hose (accessory) | O.D. ø 32 (outlet) |
| 11 | Socket (for maintenance) | VP25 (O.D. ø 32 / I.D. ø 25) |
| 10 | Hook | For M10 |
| 9 | Air suction flange | |
| 8 | Air discharge flange | |
| 7 | Power supply connection | |
| 6 | Interunit wiring connection | |
| 5 | Control box (inside) | |
| 4 | Ground terminal (in control box) | M4 |
| 3 | Drain pipe connection | VP25 (O.D. ø 32 / I.D. ø 25) |
| 2 | Gas pipe connection | ø 15.9 flange connection |
| 1 | Liquid pipe connection | ø 9.5 flange connection |
| ITEM | PART NAME | REMARK |

3D060161

9

6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

FXMQ100,125P

NOTES

- Location of MANUFACTURE'S LABEL: Control box surface
- Mount the air filter at the suction side. (Select its color/method (gravity method) 50% or more)
- Do not locate things should not be wet under the indoor unit. Dews may droop when humidity reaches over 80%, or a drain gets stuck, or air filters are not clean.
- Space for Service Works

According to any one of below 1) - 3), secure a space for service works, such as, checking and maintenance of control box and drain pumps, etc.

 - One inspection hatch (450x450) on the control box side and a space of 300mm or more under the unit. (Fig.A)
 - One inspection hatch (450x450) on the control box side and 2 (two) inspection hatches under the unit (Arrow view B-1)
 - 3 (three) inspection hatches under the unit and the control box. (Arrow view B-2)

Fig. A

View B-1 View B-2

| | | |
|------|----------------------------------|-----------------------------|
| 12 | Drain hose (accessory) | O.D. ø 32 (outlet) |
| 11 | Socket (for maintenance) | VP25 (O.D. ø 32 /I.D. ø 25) |
| 10 | Hook | For M10 |
| 9 | Air suction flange | |
| 8 | Air discharge flange | |
| 7 | Power supply connection | |
| 6 | Interunit wiring connection | |
| 5 | Control box (inside) | |
| 4 | Ground terminal (in control box) | M4 |
| 3 | Drain pipe connection | VP25 (O.D. ø 32 /I.D. ø 25) |
| 2 | Gas pipe connection | ø 15.9 flange connection |
| 1 | Liquid pipe connection | ø 9.5 flange connection |
| ITEM | PART NAME | REMARK |

3D060162

FXMQ-P

REMOTE CONTROL DIMENSIONS

INSTALLATION METHOD

EXPOSED BODY, EXPOSED CORD

EXPOSED BODY, EMBEDDED CORD

EXPOSED BODY, EMBEDDED CODE

NOTE

- Remote control cord and staple are not attached. They are field supplied parts.

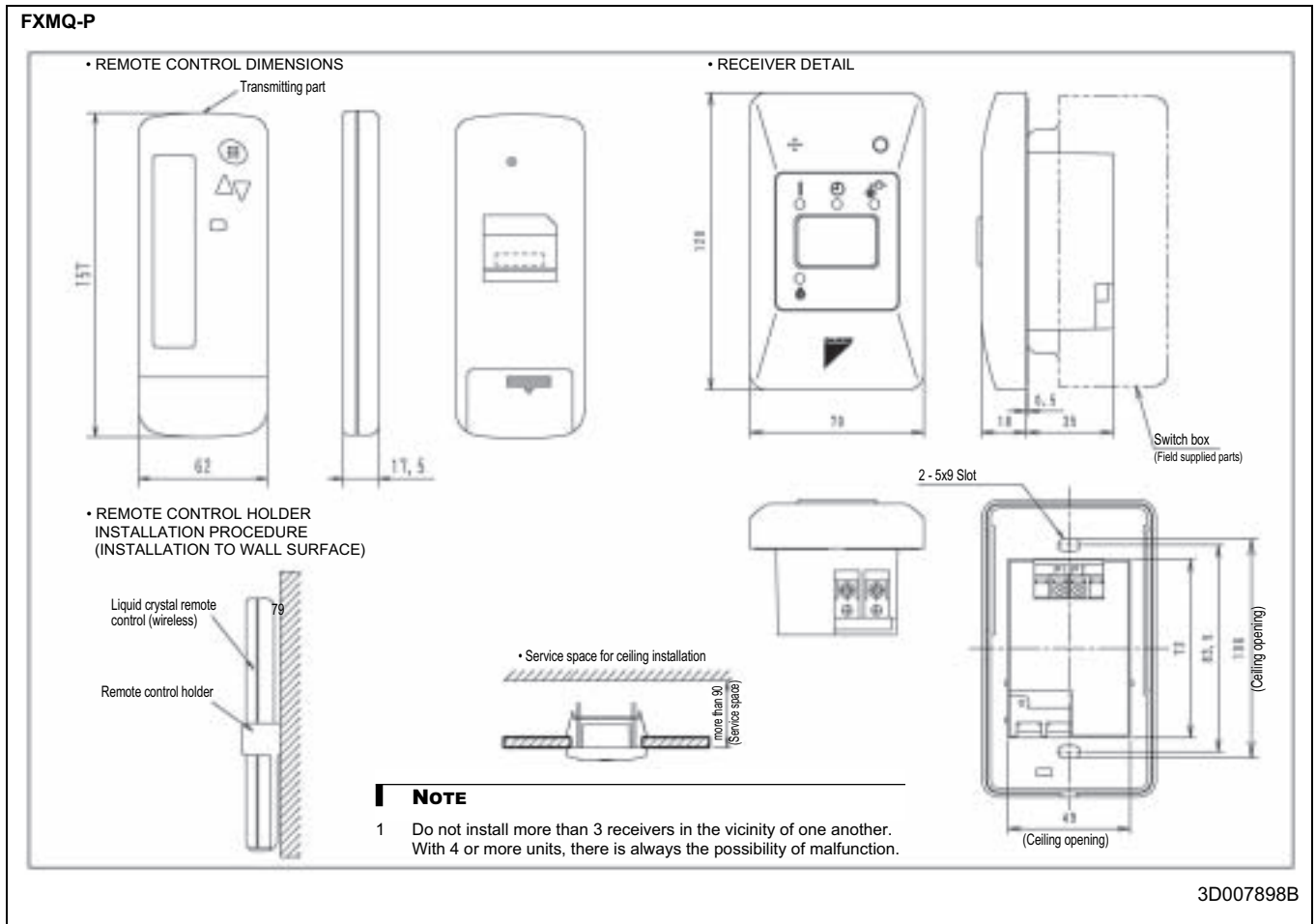
• Specifications of cord

| Type | For Australia | For other countries |
|--------------|--|--|
| | Shield wire (insulated thickness: 1mm or more) | Vinyl cord with sheath or cable (insulated thickness: 1mm or more) |
| Size | 0.75~1.25mm ² | |
| Total length | 500m | |

3D028952

6 Dimensional drawing & centre of gravity

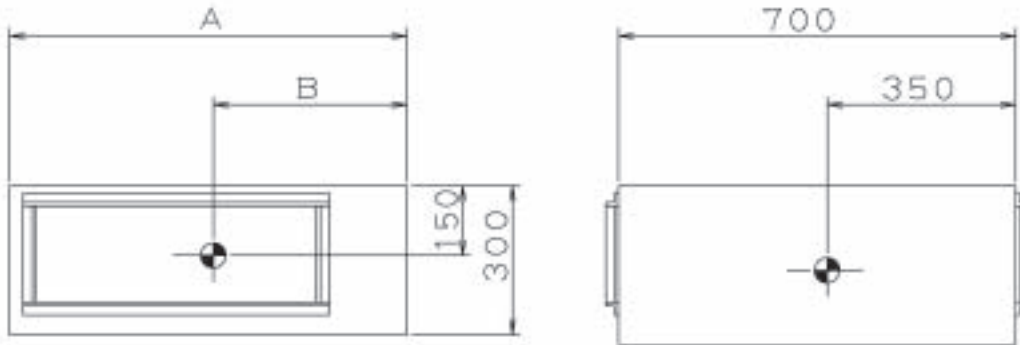
6 - 1 Dimensional drawing



6 Dimensional drawing & centre of gravity

6 - 2 Centre of gravity

FXMQ-P

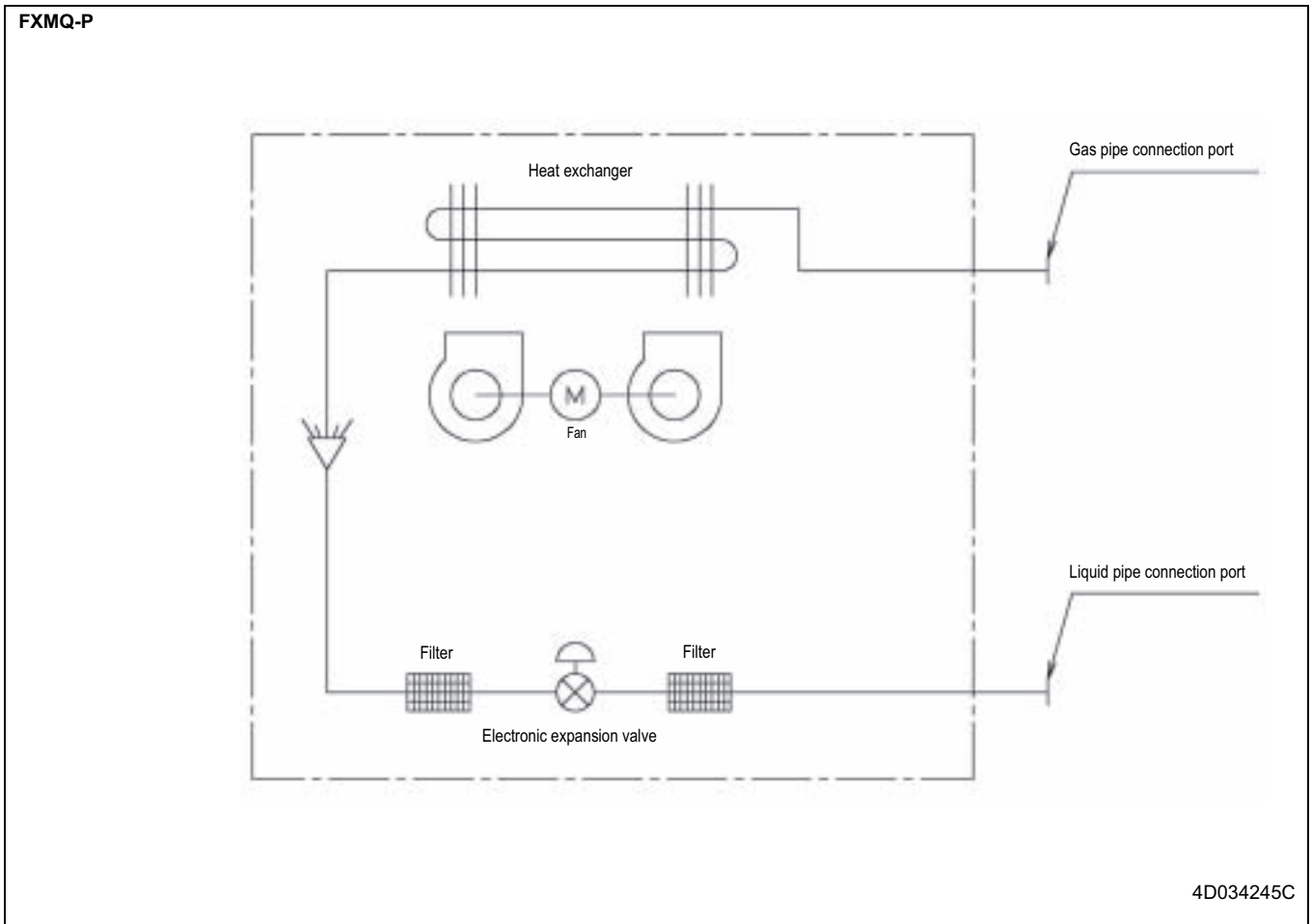


| MODEL NAME | A | B |
|---------------|------|-----|
| FXMQ40P | 700 | 280 |
| FXMQ50•63•80P | 1000 | 460 |
| FXMQ100•125P | 1400 | 600 |

4D060438

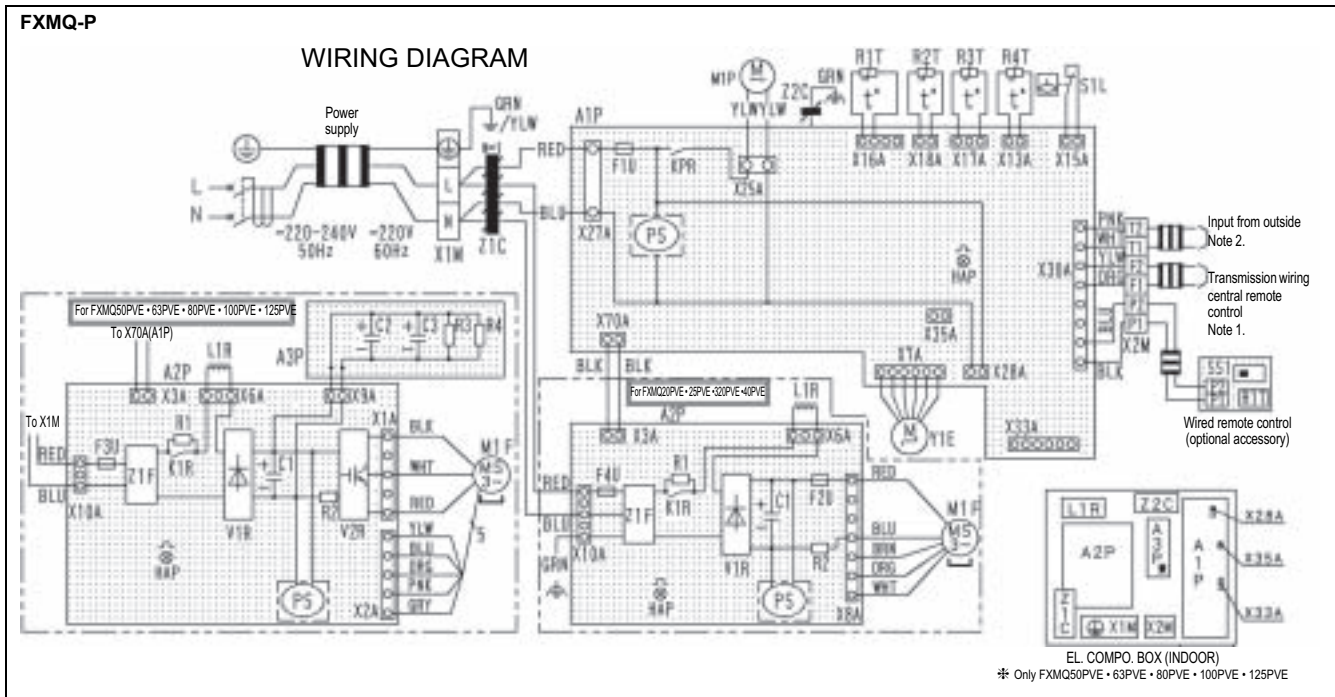
7 Piping diagram

7



8 Wiring diagram

8 - 1 Wiring diagram



| Indoor unit | | Connector optional accessory | |
|-------------|---|------------------------------|-------------------------------------|
| A1P | Printed circuit board | R1 | Resistor (current limiting) |
| A2P | Printed circuit board (Fan) | R2 | Current sensing device |
| A3P | Printed circuit board (Capacitor) | R3, R4 | Resistor (electric discharge) |
| C1, C2, C3 | Capacitor | R1T | Thermistor (suction air) |
| F1U | Fuse (T, 3, 15A, 250V) | R2T | Thermistor (liquid) |
| F2U | Fuse (T, 5A, 250V) | R3T | Thermistor (gas) |
| F3U | Fuse (T, 6, 3A, 250V) | R4T | Thermistor (discharge air) |
| F4U | Fuse (T, 6, 3A, 250V) | S1L | Float switch |
| HAP | Light emitting diode (service monitor-green) (A1P, A2P) | V1R | Diode bridge |
| KPR | Magnetic relay | V2R | Power module |
| K1R | Magnetic relay | X1M | Terminal strip (power supply) |
| L1R | Reactor | X2M | Terminal strip (control) |
| M1F | Motor (fan) | Y1E | Electronic expansion valve |
| M1P | Motor (drain pump) | Z1C, Z2C | Noise filter (ferrite core) |
| PS | Switching power supply (A1P, A2P) | Z1F | Noise filter |
| | | X28A | Connector (power supply for wiring) |
| | | X33A | Connector (for wiring) |
| | | X35A | Connector (adapter) |
| | | Wired remote control | |
| | | R1T | Thermistor (air) |
| | | SS1 | Selector switch (main/sub) |

- : Terminal
 : Connector
 : Field wiring
- Colors:** RED: Red BRN: Brown ORG: Orange
 BLK: Black GRY: Gray GRN: Green
 WHT: White BLU: Blue
 YLW: Yellow PNK: Pink

3D058783

NOTES

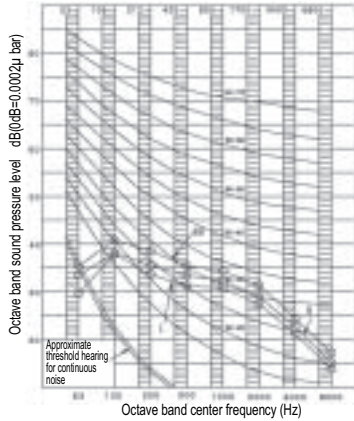
- In case of using central remote control, connect it to the unit in accordance with the attached installation manual.
- When connecting the input wires from outside, forced off or on/off control operation can be selected by remote control. In details, refer to the installation manual attached the unit.

9 Sound data

9 - 1 Sound pressure spectrum

9

FXMQ40P



4D060446

NOTES

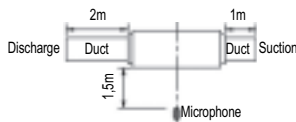
1 Over All (dB):
(B, G, N is already rectified)

| Scale | Air flow rate | | |
|-------|---------------|------|------|
| | HH | H | L |
| A | 39.0 | 37.0 | 35.0 |
| C | 45.0 | 42.0 | 41.0 |

- 2 Operating conditons:
- Power source: 220-240V 50Hz / 220V 60Hz
 - Cooling - Return air temperature: 27°C DB, 19°C WB
Outdoor temperature: 35°C DB, 24°C WB
 - Heating - Return air temperature: 20°C DB, 15°C WB
Outdoor temperature: 7°C DB, 6°C WB
 - External static Pressure: 100Pa

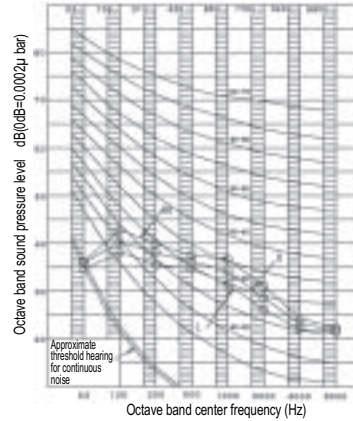
3 Measuring place: Anechoic chamber

4 Location of microphone



5 Operation noise differs with operation and ambient options

FXMQ50P



4D060428

NOTES

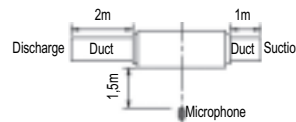
1 Over All (dB):
(B, G, N is already rectified)

| Scale | Air flow rate | | |
|-------|---------------|------|------|
| | HH | H | L |
| A | 41.0 | 39.0 | 37.0 |
| C | 46.0 | 44.0 | 42.0 |

- 2 Operating conditions:
- Power source: 220-240V 50Hz / 220V 60Hz
 - Cooling - Return air temperature: 27°C DB, 19°C WB
Outdoor temperature: 35°C DB, 24°C WB
 - Heating - Return air temperature: 20°C DB, 15°C WB
Outdoor temperature: 7°C DB, 6°C WB
 - External static Pressure: 100Pa

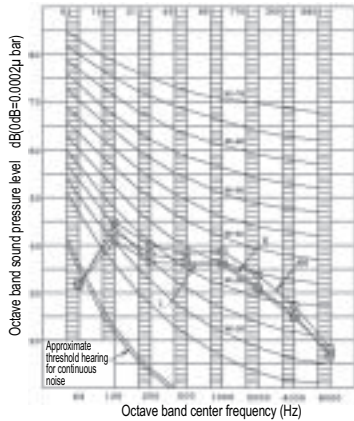
3 Measuring place: Anechoic chamber

4 Location of microphone



5 Operation noise differs with operation and ambient conditions.

FXMQ63P



4D060447

NOTES

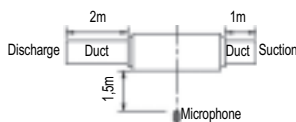
1 Over All (dB):
(B, G, N is already rectified)

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

- 2 Operating conditons:
- Power source: 220-240V 50Hz / 220V 60Hz
 - Cooling: Return air temperature: 27°C DB, 19°C WB
Outdoor temperature: 35°C DB, 24°C WB
 - Heating: Return air temperature: 20°C DB, 15°C WB
Outdoor temperature: 7°C DB, 6°C WB
 - External static Pressure: 100Pa

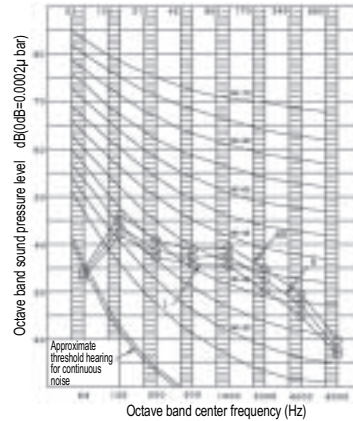
3 Measuring place: Anechoic chamber

4 Location of microphone



5 Operation noise differs with operation and ambient conditions.

FXMQ80P



4D060429

NOTES

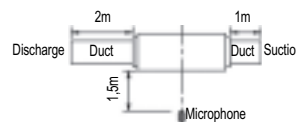
1 Over All (dB):
(B, G, N is already rectified)

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

- 2 Operating conditions:
- Power source: 220-240V 50Hz / 220V 60Hz
 - Cooling: Return air temperature: 27°C DB, 19°C WB
Outdoor temperature: 35°C DB, 24°C WB
 - Heating: Return air temperature: 20°C DB, 15°C WB
Outdoor temperature: 7°C DB, 6°C WB
 - External static Pressure: 100Pa

3 Measuring place: Anechoic chamber

4 Location of microphone



5 Operation noise differs with operation and ambient conditions.

9 Sound data

9 - 1 Sound pressure spectrum

FXMQ100P

4D060448

NOTES

- Over All (dB):
(B, G, N is already rectified)

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

- Operating conditions:
 - Power source: 220-240V 50Hz / 220V 60Hz
 - Cooling: Return air temperature: 27°C DB, 19°C WB
Outdoor temperature: 35°C DB, 24°C WB
 - Heating: Return air temperature: 20°C DB, 15°C WB
Outdoor temperature: 7°C DB, 6°C WB
 - External static Pressure: 100Pa
- Measuring place: Anechoic chamber
- Location of microphone

- Operation noise differs with operation and ambient conditions.

FXMQ125P

4D060449

NOTES

- Over All (dB):
(B, G, N is already rectified)

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

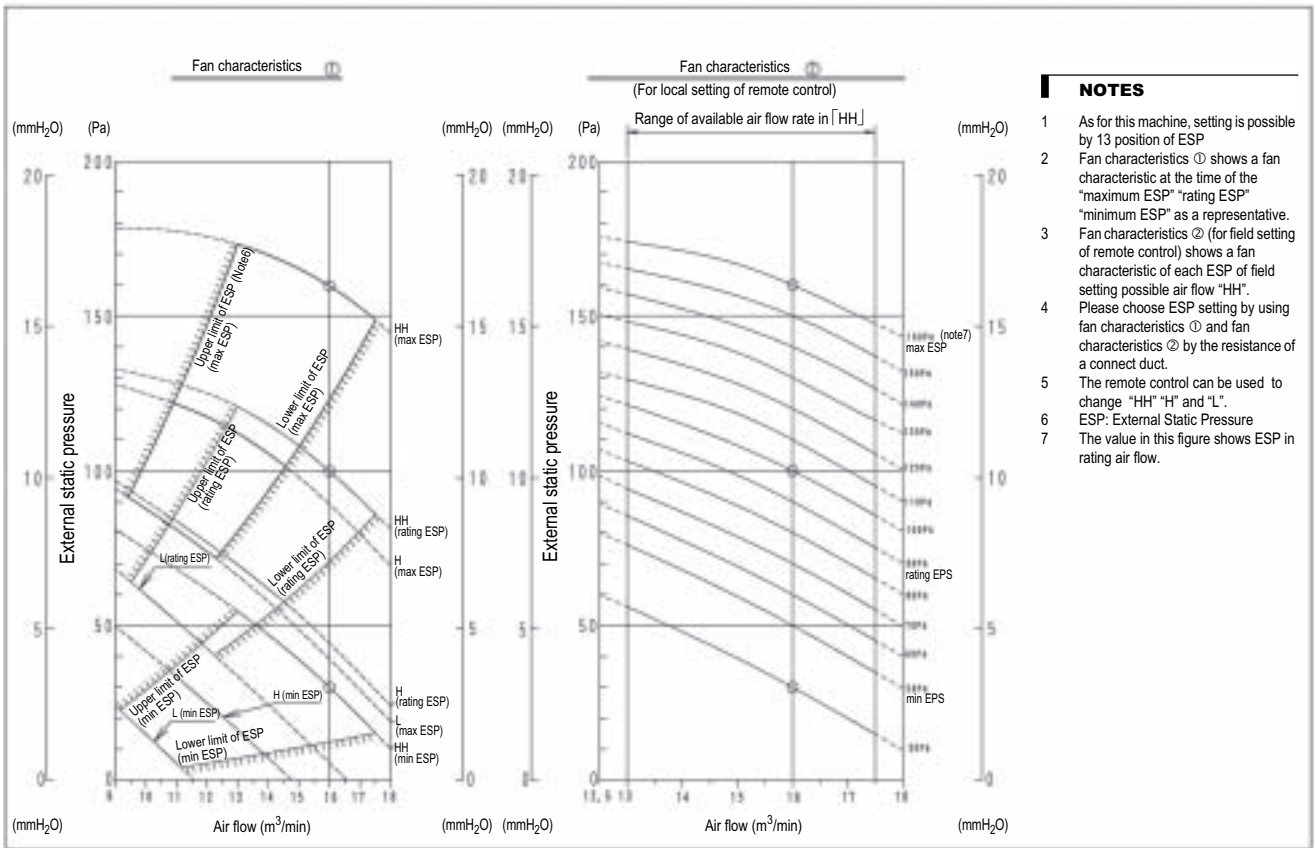
- Operating conditions:
 - Power source: 220-240V 50Hz / 220V 60Hz
 - Cooling: Return air temperature: 27°C DB, 19°C WB
Outdoor temperature: 35°C DB, 24°C WB
 - Heating: Return air temperature: 20°C DB, 15°C WB
Outdoor temperature: 7°C DB, 6°C WB
 - External static Pressure: 100Pa
- Measuring place: Anechoic chamber
- Location of microphone

- Operation noise differs with operation and ambient conditions.

10 Fan characteristics

10

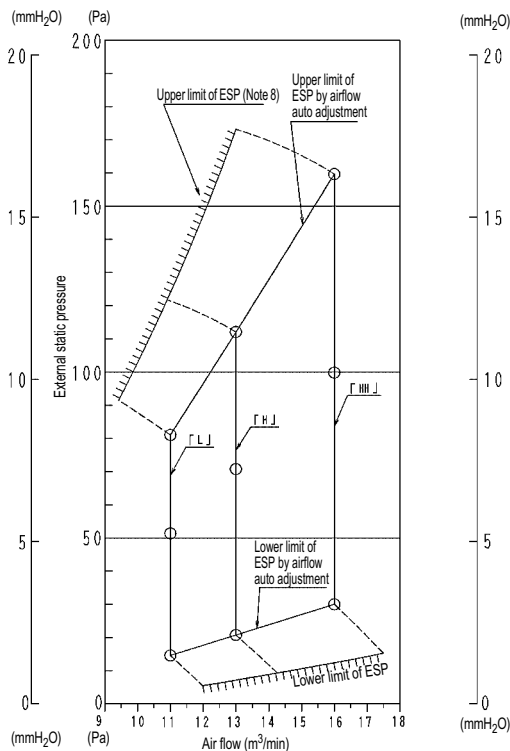
FXMQ40P



- NOTES**
- 1 As for this machine, setting is possible by 13 position of ESP
 - 2 Fan characteristics ① shows a fan characteristic at the time of the "maximum ESP" "rating ESP" "minimum ESP" as a representative.
 - 3 Fan characteristics ② (for field setting of remote control) shows a fan characteristic of each ESP of field setting possible air flow "HH".
 - 4 Please choose ESP setting by using fan characteristics ① and fan characteristics ② by the resistance of a connect duct.
 - 5 The remote control can be used to change "HH" "H" and "L".
 - 6 ESP: External Static Pressure
 - 7 The value in this figure shows ESP in rating air flow.

3D060456

FXMQ40P

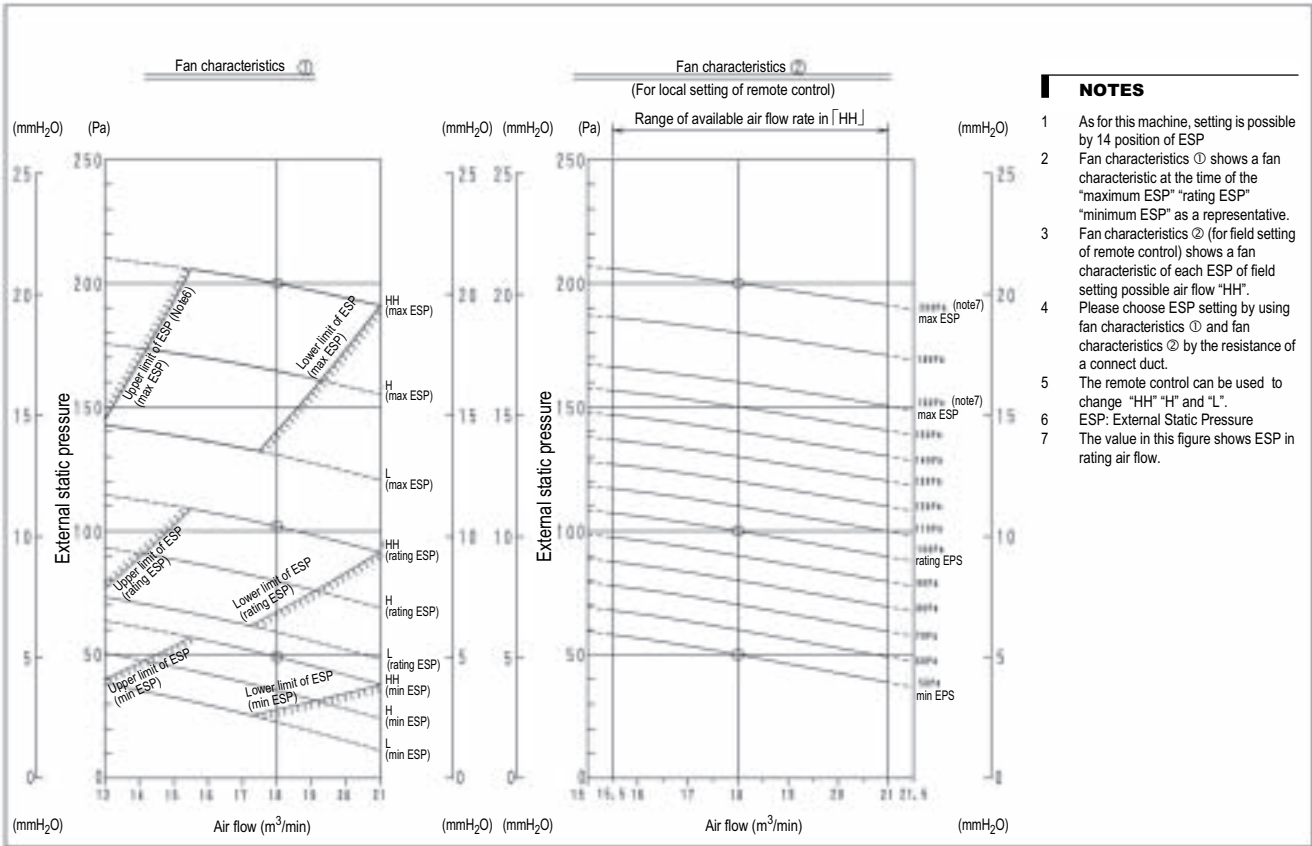


- NOTES**
- 1 As for this machine, less than 10% of the volume of blow-off air is automatically adjusted to the rated quantity by airflow auto adjustment at the time of the installation.
 - 2 After duct construction completion, please perform local setting "airflow auto adjustment" by remote control.
 - 3 About the local setting method of the "airflow auto adjustment", look at the installation manual which is attached to an indoor unit.
 - 4 External static pressure that can adjust by "airflow auto adjustment" function is 30Pa - 160Pa (When air flow is HH).
 - 5 It is not operated auto adjustment, operated in air flow that is different from rated quantity in the case of use out of external static pressure range mentioned above.
 - 6 This figure shows a fan characteristics at the time of "HH" "H" and "L".
 - 7 The remote control can be used to change "HH" "H" and "L".
 - 8 ESP: external static pressure.

3D060577

10 Fan characteristics

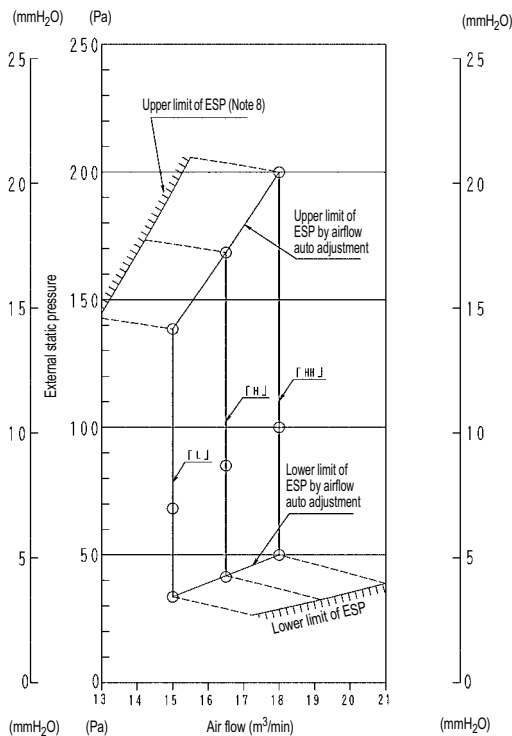
FXMQ50P



- NOTES**
- 1 As for this machine, setting is possible by 14 position of ESP
 - 2 Fan characteristics ① shows a fan characteristic at the time of the "maximum ESP" "rating ESP" "minimum ESP" as a representative.
 - 3 Fan characteristics ② (for field setting of remote control) shows a fan characteristic of each ESP of field setting possible air flow "HH".
 - 4 Please choose ESP setting by using fan characteristics ① and fan characteristics ② by the resistance of a connect duct.
 - 5 The remote control can be used to change "HH" "H" and "L".
 - 6 ESP: External Static Pressure
 - 7 The value in this figure shows ESP in rating air flow.

3D060457

FXMQ50P



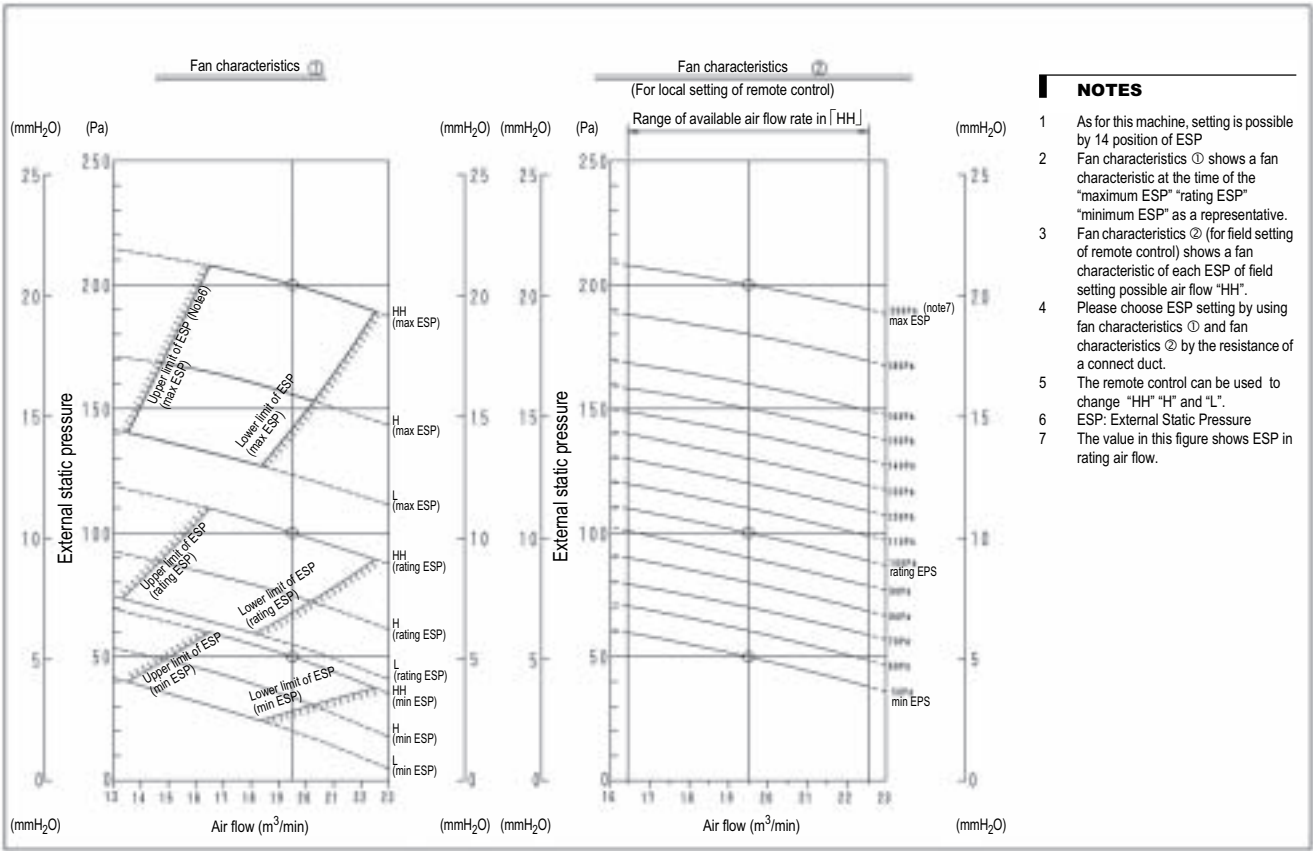
- NOTES**
- 1 As for this machine, less than 10% of the volume of blow-off air is automatically adjusted to the rated quantity by airflow auto adjustment at the time of the installation.
 - 2 After duct construction completion, please perform local setting "airflow auto adjustment" by remote control.
 - 3 About the local setting method of the "airflow auto adjustment", look at the installation manual which is attached to an indoor unit .
 - 4 External static pressure that can adjust by " airflow auto adjustment " function is 50Pa - 200Pa (When air flow is HH).
 - 5 It is not operated auto adjustment, operated in air flow that is different from rated quantity in the case of use out of external static pressure range mentioned above.
 - 6 This figure shows a fan characteristics at the time of "HH" "H" and "L".
 - 7 The remote control can be used to change "HH" "H" and "L".
 - 8 ESP: external static pressure.

3D060578

10 Fan characteristics

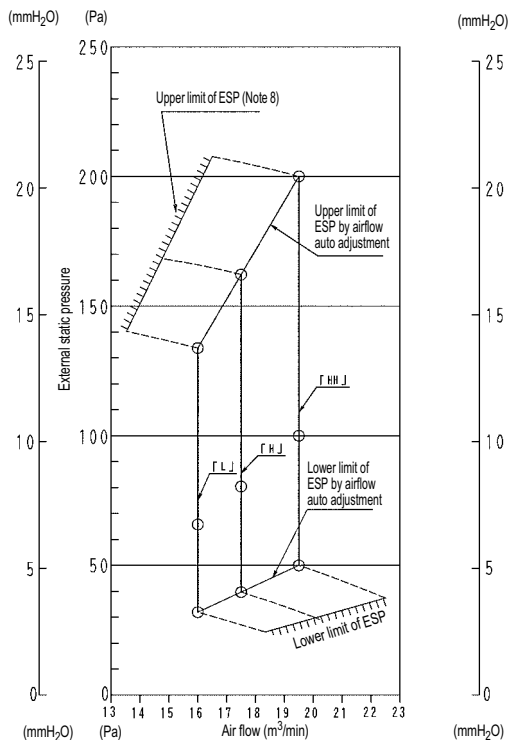
10

FXMQ63P



3D060458

FXMQ63P



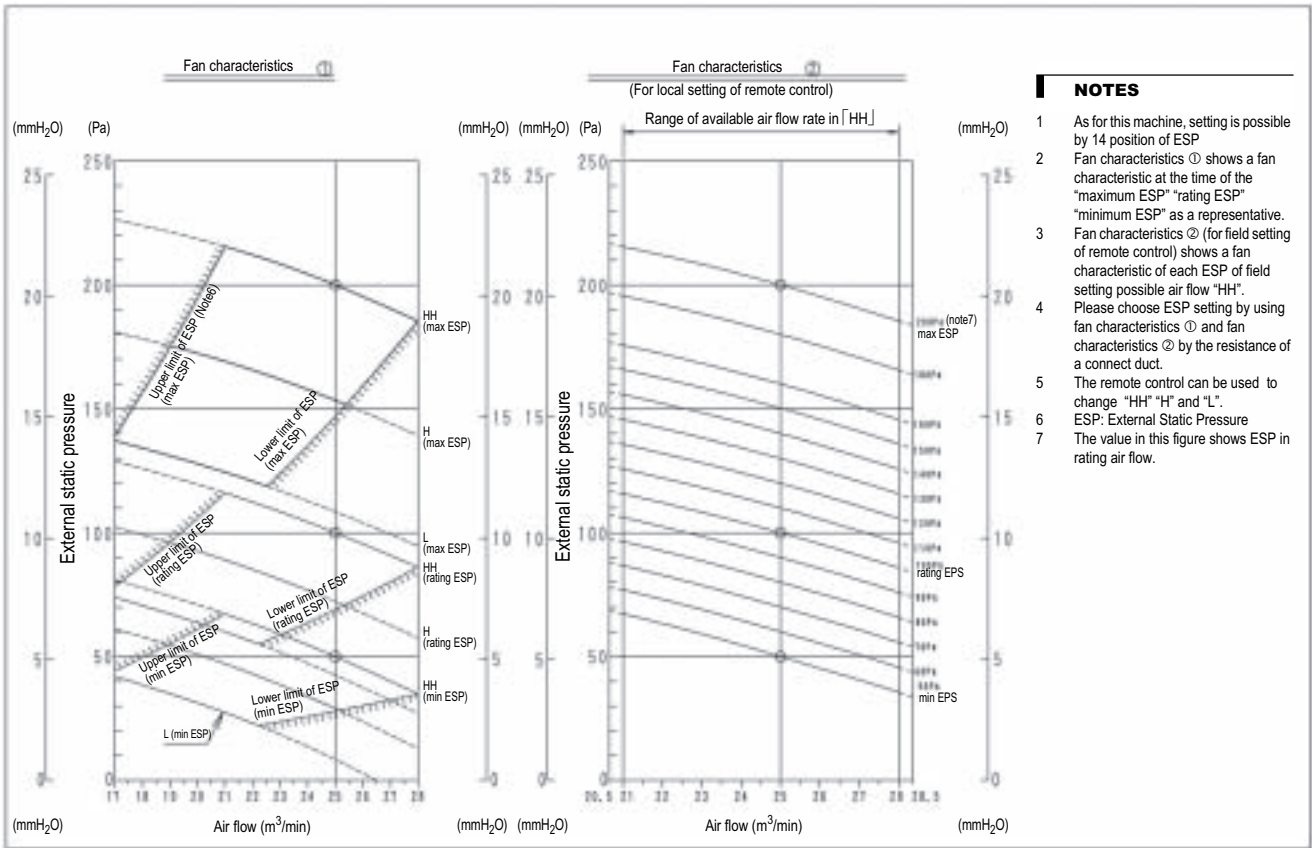
NOTES

- 1 As for this machine, less than 10% of the volume of blow-off air is automatically adjusted to the rated quantity by airflow auto adjustment at the time of the installation.
- 2 After duct construction completion, please perform local setting "airflow auto adjustment" by remote control.
- 3 About the local setting method of the "airflow auto adjustment", look at the installation manual which is attached to an indoor unit .
- 4 External static pressure that can adjust by " airflow auto adjustment " function is 50Pa - 200Pa (When air flow is HH).
- 5 It is not operated auto adjustment, operated in air flow that is different from rated quantity in the case of use out of external static pressure range mentioned above.
- 6 This figure shows a fan characteristics at the time of "HH" "H" and "L".
- 7 The remote control can be used to change "HH" "H" and "L".
- 8 ESP: external static pressure.

3D060579

10 Fan characteristics

FXMQ80P

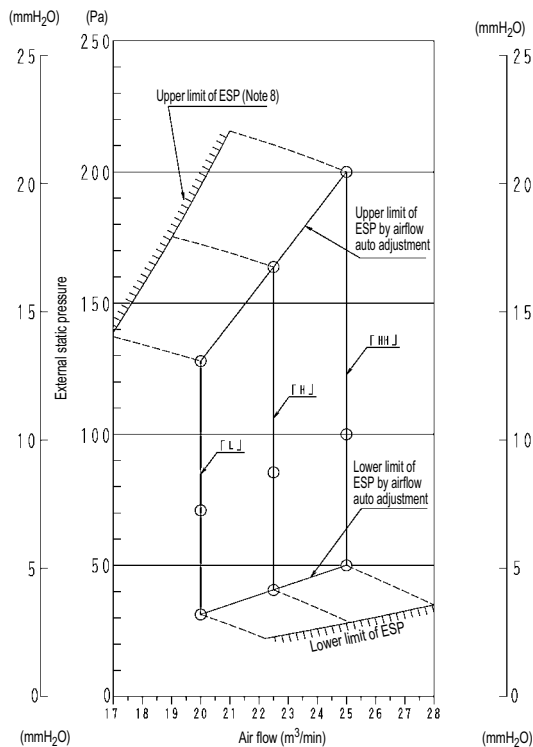


NOTES

- 1 As for this machine, setting is possible by 14 position of ESP
- 2 Fan characteristics ① shows a fan characteristic at the time of the "maximum ESP" "rating ESP" "minimum ESP" as a representative.
- 3 Fan characteristics ② (for field setting of remote control) shows a fan characteristic of each ESP of field setting possible air flow "HH".
- 4 Please choose ESP setting by using fan characteristics ① and fan characteristics ② by the resistance of a connect duct.
- 5 The remote control can be used to change "HH" "H" and "L".
- 6 ESP: External Static Pressure
- 7 The value in this figure shows ESP in rating air flow.

3D060459

FXMQ80P



NOTES

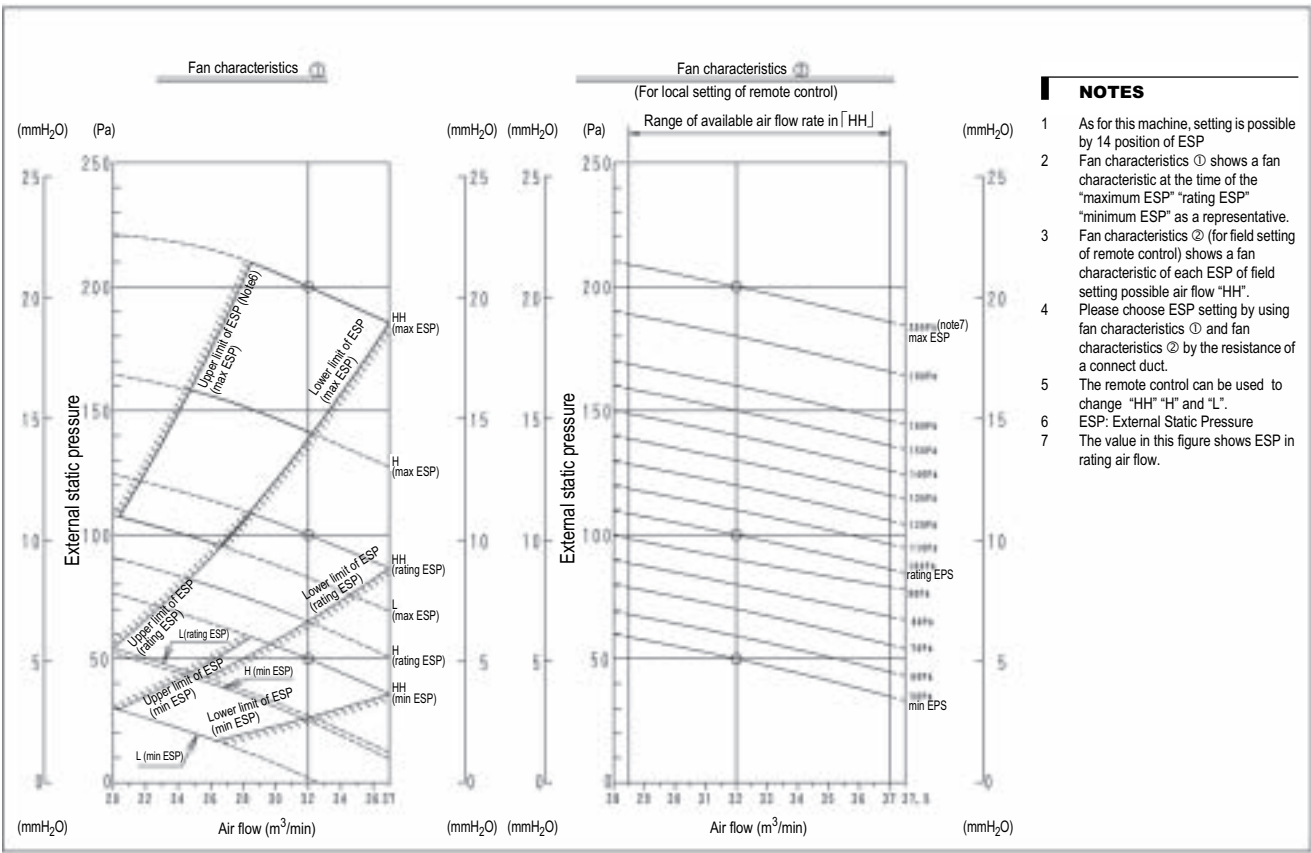
- 1 As for this machine, less than 10% of the volume of blow-off air is automatically adjusted to the rated quantity by airflow auto adjustment at the time of the installation.
- 2 After duct construction completion, please perform local setting "airflow auto adjustment" by remote control.
- 3 About the local setting method of the "airflow auto adjustment", look at the installation manual which is attached to an indoor unit.
- 4 External static pressure that can adjust by "airflow auto adjustment" function is 50Pa - 200Pa (When air flow is HH).
- 5 It is not operated auto adjustment, operated in air flow that is different from rated quantity in the case of use out of external static pressure range mentioned above.
- 6 This figure shows a fan characteristics at the time of "HH" "H" and "L".
- 7 The remote control can be used to change "HH" "H" and "L".
- 8 ESP: external static pressure.

3D060580

10 Fan characteristics

10

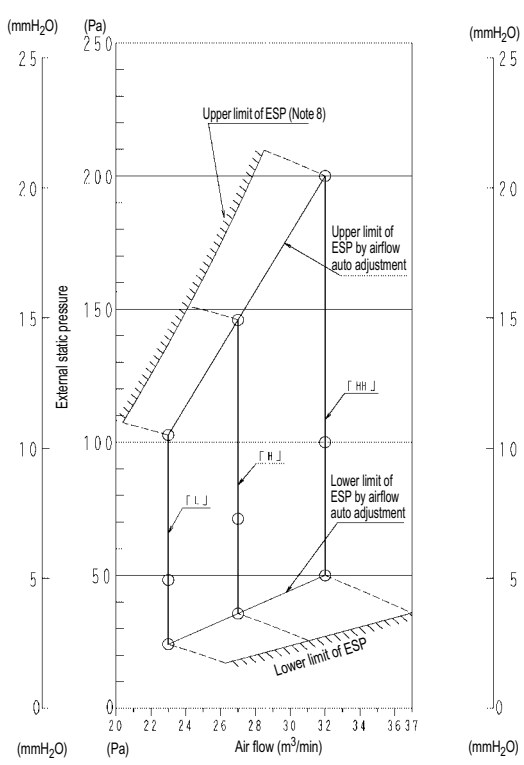
FXMQ100P



- NOTES**
- As for this machine, setting is possible by 14 position of ESP
 - Fan characteristics ① shows a fan characteristic at the time of the "maximum ESP" "rating ESP" "minimum ESP" as a representative.
 - Fan characteristics ② (for field setting of remote control) shows a fan characteristic of each ESP of field setting possible air flow "HH".
 - Please choose ESP setting by using fan characteristics ① and fan characteristics ② by the resistance of a connect duct.
 - The remote control can be used to change "HH" "H" and "L".
 - ESP: External Static Pressure
 - The value in this figure shows ESP in rating air flow.

3D060460

FXMQ100P

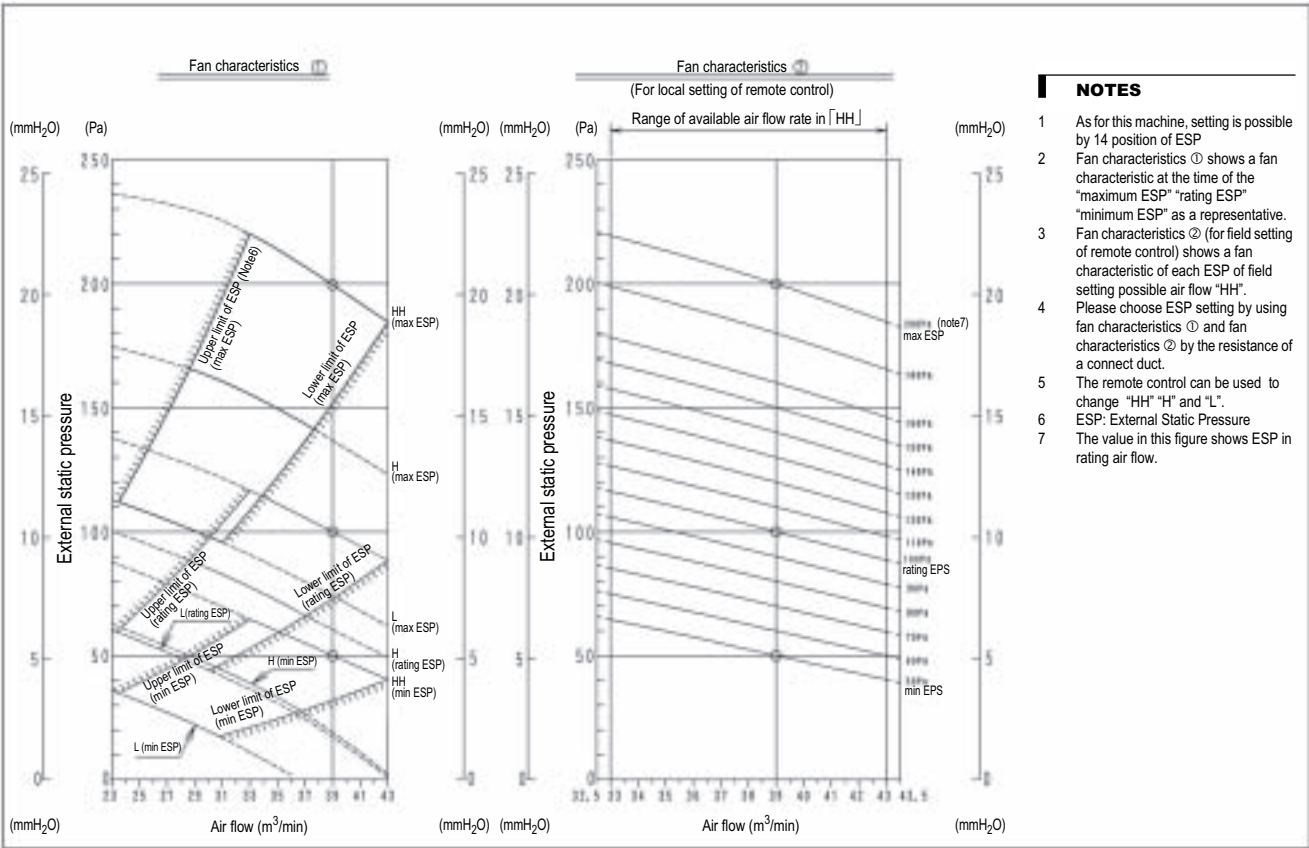


- NOTES**
- As for this machine, less than 10% of the volume of blow-off air is automatically adjusted to the rated quantity by airflow auto adjustment at the time of the installation.
 - After duct construction completion, please perform local setting "airflow auto adjustment" by remote control.
 - About the local setting method of the "airflow auto adjustment", look at the installation manual which is attached to an indoor unit.
 - External static pressure that can adjust by "airflow auto adjustment" function is 50Pa - 200Pa (When air flow is HH).
 - It is not operated auto adjustment, operated in air flow that is different from rated quantity in the case of use out of external static pressure range mentioned above.
 - This figure shows a fan characteristics at the time of "HH" "H" and "L".
 - The remote control can be used to change "HH" "H" and "L".
 - ESP: external static pressure.

3D060581

10 Fan characteristics

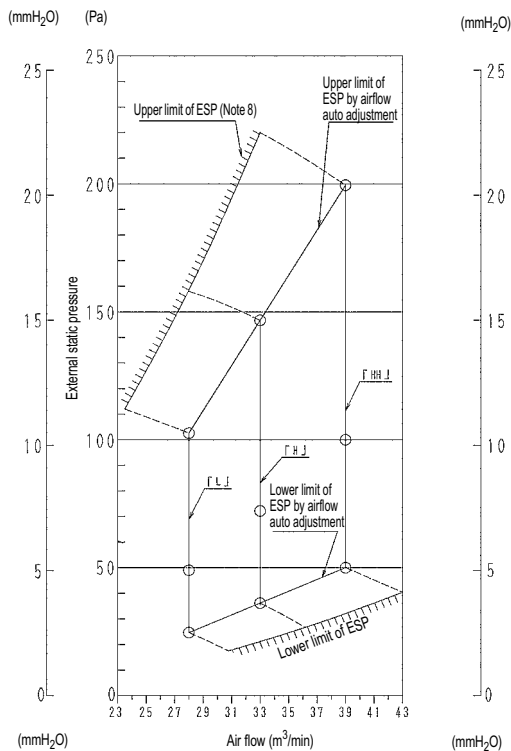
FXMQ125P



- NOTES**
- As for this machine, setting is possible by 14 position of ESP
 - Fan characteristics ① shows a fan characteristic at the time of the "maximum ESP" "rating ESP" "minimum ESP" as a representative.
 - Fan characteristics ② (for field setting of remote control) shows a fan characteristic of each ESP of field setting possible air flow "HH".
 - Please choose ESP setting by using fan characteristics ① and fan characteristics ② by the resistance of a connect duct.
 - The remote control can be used to change "HH" "H" and "L".
 - ESP: External Static Pressure
 - The value in this figure shows ESP in rating air flow.

3D060461

FXMQ125P



- NOTES**
- As for this machine, less than 10% of the volume of blow-off air is automatically adjusted to the rated quantity by airflow auto adjustment at the time of the installation.
 - After duct construction completion, please perform local setting "airflow auto adjustment" by remote control.
 - About the local setting method of the "airflow auto adjustment", look at the installation manual which is attached to an indoor unit.
 - External static pressure that can adjust by "airflow auto adjustment" function is 50Pa - 200Pa (When air flow is HH).
 - It is not operated auto adjustment, operated in air flow that is different from rated quantity in the case of use out of external static pressure range mentioned above.
 - This figure shows a fan characteristics at the time of "HH" "H" and "L".
 - The remote control can be used to change "HH" "H" and "L".
 - ESP: external static pressure.

3D060582

10 Fan characteristics

10

