

# **FXCQ-AVM**

## **Ceiling Mounted Cassette**

### **(Double Flow) Type**

### **60 Hz**

|                                         |    |
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## 1. Lineup

|                |        |        |         |        |        |        |        |         |
|----------------|--------|--------|---------|--------|--------|--------|--------|---------|
| Capacity range | 2.2 kW | 2.8 kW | 3.6 kW  | 4.5 kW | 5.6 kW | 7.1 kW | 9.0 kW | 14.0 kW |
|                | 0.8 HP | 1 HP   | 1.25 HP | 1.6 HP | 2 HP   | 2.5 HP | 3.2 HP | 5 HP    |
| Capacity index | 20     | 25     | 31.25   | 40     | 50     | 62.5   | 80     | 125     |
| FXCQ           | 20AVM  | 25AVM  | 32AVM   | 40AVM  | 50AVM  | 63AVM  | 80AVM  | 125AVM  |

VM : 1 phase, 220-240/220-230 V, 50/60 Hz



## 2. Specifications

| Model                                 |                                |        | FXCQ20AVM                                                                                                                                                                                                                                                       | FXCQ25AVM                                                                                                                                                                                                                                                       |
|---------------------------------------|--------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ★1 Power supply                       |                                |        | 1 phase, 220-240/220-230 V, 50/60 Hz                                                                                                                                                                                                                            | 1 phase, 220-240/220-230 V, 50/60 Hz                                                                                                                                                                                                                            |
| ★2 ★5 Cooling capacity                |                                | kcal/h | 1,900                                                                                                                                                                                                                                                           | 2,400                                                                                                                                                                                                                                                           |
|                                       |                                | Btu/h  | 7,500                                                                                                                                                                                                                                                           | 9,600                                                                                                                                                                                                                                                           |
|                                       |                                | kW     | 2.2                                                                                                                                                                                                                                                             | 2.8                                                                                                                                                                                                                                                             |
| ★3 ★5 Heating capacity                |                                | kcal/h | 2,200                                                                                                                                                                                                                                                           | 2,800                                                                                                                                                                                                                                                           |
|                                       |                                | Btu/h  | 8,500                                                                                                                                                                                                                                                           | 10,900                                                                                                                                                                                                                                                          |
|                                       |                                | kW     | 2.5                                                                                                                                                                                                                                                             | 3.2                                                                                                                                                                                                                                                             |
| Power input                           | Cooling                        | kW     | 0.031                                                                                                                                                                                                                                                           | 0.039                                                                                                                                                                                                                                                           |
|                                       | Heating                        | kW     | 0.028                                                                                                                                                                                                                                                           | 0.035                                                                                                                                                                                                                                                           |
| Casing / Colour                       |                                |        | Galvanized steel plate                                                                                                                                                                                                                                          | Galvanized steel plate                                                                                                                                                                                                                                          |
| Dimensions: (H×W×D)                   |                                | mm     | 305×775×620                                                                                                                                                                                                                                                     | 305×775×620                                                                                                                                                                                                                                                     |
| Coil (Cross fin coil)                 | Rows × Stages × Fin pitch      | mm     | (2×16×1.2)×1                                                                                                                                                                                                                                                    | (2×16×1.2)×1                                                                                                                                                                                                                                                    |
|                                       | Face area                      | m²     | 0.334                                                                                                                                                                                                                                                           | 0.334                                                                                                                                                                                                                                                           |
| Fan                                   | Model                          |        | ARW5207DK                                                                                                                                                                                                                                                       | ARW5207DK                                                                                                                                                                                                                                                       |
|                                       | Type                           |        | Turbo fan                                                                                                                                                                                                                                                       | Turbo fan                                                                                                                                                                                                                                                       |
|                                       | Motor output × Number of units | W      | 56×1                                                                                                                                                                                                                                                            | 56×1                                                                                                                                                                                                                                                            |
|                                       | Airflow rate (H/HM/M/ML/L)     | m³/min | 10.5/9.5/9/8/7.5                                                                                                                                                                                                                                                | 11.5/10.5/9.5/8.5/8                                                                                                                                                                                                                                             |
|                                       |                                | l/s    | 175/158/150/133/125                                                                                                                                                                                                                                             | 192/175/158/142/133                                                                                                                                                                                                                                             |
|                                       |                                | cfm    | 371/335/318/282/265                                                                                                                                                                                                                                             | 406/371/335/300/282                                                                                                                                                                                                                                             |
|                                       | Drive                          |        | Direct drive                                                                                                                                                                                                                                                    | Direct drive                                                                                                                                                                                                                                                    |
| Temperature control                   |                                |        | Microprocessor thermostat for cooling and heating                                                                                                                                                                                                               | Microprocessor thermostat for cooling and heating                                                                                                                                                                                                               |
| Piping connections                    | Liquid pipes                   | mm     | φ6.4 (Flare connection)                                                                                                                                                                                                                                         | φ6.4 (Flare connection)                                                                                                                                                                                                                                         |
|                                       | Gas pipes                      | mm     | φ12.7 (Flare connection)                                                                                                                                                                                                                                        | φ12.7 (Flare connection)                                                                                                                                                                                                                                        |
|                                       | ★4 Drain pipe                  | mm     | VP25<br>( External dia. 32<br>Internal dia. 25 )                                                                                                                                                                                                                | VP25<br>( External dia. 32<br>Internal dia. 25 )                                                                                                                                                                                                                |
| Mass                                  |                                | kg     | 19                                                                                                                                                                                                                                                              | 19                                                                                                                                                                                                                                                              |
| ★6 Sound pressure level (H/HM/M/ML/L) |                                | dB(A)  | 32.0/31.0/30.0/29.0/28.0                                                                                                                                                                                                                                        | 34.0/33.0/31.0/30.0/29.0                                                                                                                                                                                                                                        |
| Safety devices                        |                                |        | Fuse                                                                                                                                                                                                                                                            | Fuse                                                                                                                                                                                                                                                            |
| Refrigerant control                   |                                |        | Electronic expansion valve                                                                                                                                                                                                                                      | Electronic expansion valve                                                                                                                                                                                                                                      |
| Decoration panels (Option)            | Model                          |        | BYBCQ40CF                                                                                                                                                                                                                                                       | BYBCQ40CF                                                                                                                                                                                                                                                       |
|                                       | Panel colour                   |        | Fresh White (6.5Y9.5/0.5)                                                                                                                                                                                                                                       | Fresh White (6.5Y9.5/0.5)                                                                                                                                                                                                                                       |
|                                       | Dimensions: (H×W×D)            | mm     | 55×1,070×700                                                                                                                                                                                                                                                    | 55×1,070×700                                                                                                                                                                                                                                                    |
|                                       | Air filter                     |        | Resin net (with mould resistance)                                                                                                                                                                                                                               | Resin net (with mould resistance)                                                                                                                                                                                                                               |
|                                       | Mass                           | kg     | 10                                                                                                                                                                                                                                                              | 10                                                                                                                                                                                                                                                              |
| Standard accessories                  |                                |        | Operation manual, Installation manual, Declaration of conformity, Installation pattern paper, Washer for hanger, Metal clamp, Drain hose, Joint insulation materials, Washer clamp, Sealing materials, Clamps, Screws, Insulation piping cover for drain piping | Operation manual, Installation manual, Declaration of conformity, Installation pattern paper, Washer for hanger, Metal clamp, Drain hose, Joint insulation materials, Washer clamp, Sealing materials, Clamps, Screws, Insulation piping cover for drain piping |
| Drawing No.                           | Specification                  |        | C: 3D117680A                                                                                                                                                                                                                                                    | C: 3D117680A                                                                                                                                                                                                                                                    |
|                                       | Sound level                    |        | C: 4D118212A                                                                                                                                                                                                                                                    | C: 4D118219A                                                                                                                                                                                                                                                    |

### Notes:

- ★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.
- ★2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.
- ★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- ★4. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.  
During actual operation, these values are normally somewhat higher as a result of ambient conditions.

### Conversion formulae

kcal/h=kW×860  
 Btu/h=kW×3412  
 cfm=m<sup>3</sup>/min×35.3  
 l/s=m<sup>3</sup>/min×1000/60

| Model                                 |                                |        | FXCQ32AVM                                                                                                                                                                                                                                                       | FXCQ40AVM                                                                                                                                                                                                                                                       |
|---------------------------------------|--------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ★1 Power supply                       |                                |        | 1 phase, 220-240/220-230 V, 50/60 Hz                                                                                                                                                                                                                            | 1 phase, 220-240/220-230 V, 50/60 Hz                                                                                                                                                                                                                            |
| ★2 ★5 Cooling capacity                |                                | kcal/h | 3,100                                                                                                                                                                                                                                                           | 3,900                                                                                                                                                                                                                                                           |
|                                       |                                | Btu/h  | 12,300                                                                                                                                                                                                                                                          | 15,400                                                                                                                                                                                                                                                          |
|                                       |                                | kW     | 3.6                                                                                                                                                                                                                                                             | 4.5                                                                                                                                                                                                                                                             |
| ★3 ★5 Heating capacity                |                                | kcal/h | 3,400                                                                                                                                                                                                                                                           | 4,300                                                                                                                                                                                                                                                           |
|                                       |                                | Btu/h  | 13,600                                                                                                                                                                                                                                                          | 17,100                                                                                                                                                                                                                                                          |
|                                       |                                | kW     | 4.0                                                                                                                                                                                                                                                             | 5.0                                                                                                                                                                                                                                                             |
| Power input                           | Cooling                        | kW     | 0.039                                                                                                                                                                                                                                                           | 0.041                                                                                                                                                                                                                                                           |
|                                       | Heating                        | kW     | 0.035                                                                                                                                                                                                                                                           | 0.037                                                                                                                                                                                                                                                           |
| Casing / Colour                       |                                |        | Galvanized steel plate                                                                                                                                                                                                                                          | Galvanized steel plate                                                                                                                                                                                                                                          |
| Dimensions: (H×W×D)                   |                                | mm     | 305×775×620                                                                                                                                                                                                                                                     | 305×775×620                                                                                                                                                                                                                                                     |
| Coil (Cross fin coil)                 | Rows × Stages × Fin pitch      | mm     | (2×16×1.2)×1                                                                                                                                                                                                                                                    | (2×16×1.2)×1                                                                                                                                                                                                                                                    |
|                                       | Face area                      | m²     | 0.334                                                                                                                                                                                                                                                           | 0.334                                                                                                                                                                                                                                                           |
| Fan                                   | Model                          |        | ARW5207DK                                                                                                                                                                                                                                                       | ARW5207DK                                                                                                                                                                                                                                                       |
|                                       | Type                           |        | Turbo fan                                                                                                                                                                                                                                                       | Turbo fan                                                                                                                                                                                                                                                       |
|                                       | Motor output × Number of units | W      | 56×1                                                                                                                                                                                                                                                            | 56×1                                                                                                                                                                                                                                                            |
|                                       | Airflow rate (H/HM/M/ML/L)     | m³/min | 11.5/10.5/9.5/8.5/8                                                                                                                                                                                                                                             | 12/11/10.5/9.5/8.5                                                                                                                                                                                                                                              |
|                                       |                                | l/s    | 192/175/158/142/133                                                                                                                                                                                                                                             | 200/183/175/158/141                                                                                                                                                                                                                                             |
|                                       |                                | cfm    | 406/371/335/300/282                                                                                                                                                                                                                                             | 424/388/371/335/300                                                                                                                                                                                                                                             |
|                                       | Drive                          |        | Direct drive                                                                                                                                                                                                                                                    | Direct drive                                                                                                                                                                                                                                                    |
| Temperature control                   |                                |        | Microprocessor thermostat for cooling and heating                                                                                                                                                                                                               | Microprocessor thermostat for cooling and heating                                                                                                                                                                                                               |
| Piping connections                    | Liquid pipes                   | mm     | φ6.4 (Flare connection)                                                                                                                                                                                                                                         | φ6.4 (Flare connection)                                                                                                                                                                                                                                         |
|                                       | Gas pipes                      | mm     | φ12.7 (Flare connection)                                                                                                                                                                                                                                        | φ12.7 (Flare connection)                                                                                                                                                                                                                                        |
|                                       | ★4 Drain pipe                  | mm     | VP25<br>（ External dia. 32<br>Internal dia. 25 ）                                                                                                                                                                                                                | VP25<br>（ External dia. 32<br>Internal dia. 25 ）                                                                                                                                                                                                                |
| Mass                                  |                                | kg     | 19                                                                                                                                                                                                                                                              | 19                                                                                                                                                                                                                                                              |
| ★6 Sound pressure level (H/HM/M/ML/L) |                                | dB(A)  | 34.0/33.0/32.0/31.0/30.0                                                                                                                                                                                                                                        | 36.0/34.5/33.0/32.0/31.0                                                                                                                                                                                                                                        |
| Safety devices                        |                                |        | Fuse                                                                                                                                                                                                                                                            | Fuse                                                                                                                                                                                                                                                            |
| Refrigerant control                   |                                |        | Electronic expansion valve                                                                                                                                                                                                                                      | Electronic expansion valve                                                                                                                                                                                                                                      |
| Decoration panels (Option)            | Model                          |        | BYBCQ40CF                                                                                                                                                                                                                                                       | BYBCQ40CF                                                                                                                                                                                                                                                       |
|                                       | Panel colour                   |        | Fresh White (6.5Y9.5/0.5)                                                                                                                                                                                                                                       | Fresh White (6.5Y9.5/0.5)                                                                                                                                                                                                                                       |
|                                       | Dimensions: (H×W×D)            | mm     | 55×1,070×700                                                                                                                                                                                                                                                    | 55×1,070×700                                                                                                                                                                                                                                                    |
|                                       | Air filter                     |        | Resin net (with mould resistance)                                                                                                                                                                                                                               | Resin net (with mould resistance)                                                                                                                                                                                                                               |
|                                       | Mass                           | kg     | 10                                                                                                                                                                                                                                                              | 10                                                                                                                                                                                                                                                              |
| Standard accessories                  |                                |        | Operation manual, Installation manual, Declaration of conformity, Installation pattern paper, Washer for hanger, Metal clamp, Drain hose, Joint insulation materials, Washer clamp, Sealing materials, Clamps, Screws, Insulation piping cover for drain piping | Operation manual, Installation manual, Declaration of conformity, Installation pattern paper, Washer for hanger, Metal clamp, Drain hose, Joint insulation materials, Washer clamp, Sealing materials, Clamps, Screws, Insulation piping cover for drain piping |
| Drawing No.                           | Specification                  |        | C: 3D117680A                                                                                                                                                                                                                                                    | C: 3D117680A                                                                                                                                                                                                                                                    |
|                                       | Sound level                    |        | C: 4D118221A                                                                                                                                                                                                                                                    | C: 4D118222B                                                                                                                                                                                                                                                    |

**Notes:**

- ★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.  
★2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.  
★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.  
★4. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.  
During actual operation, these values are normally somewhat higher as a result of ambient conditions.

**Conversion formulae**

kcal/h=kW×860  
Btu/h=kW×3412  
cfm=m<sup>3</sup>/min×35.3  
l/s=m<sup>3</sup>/min×1000/60

| Model                                 |                                |              | FXCQ50AVM                                                                                                                                                                                                                                                       | FXCQ63AVM                                                                                                                                                                                                                                                       |
|---------------------------------------|--------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ★1 Power supply                       |                                |              | 1 phase, 220-240/220-230 V, 50/60 Hz                                                                                                                                                                                                                            | 1 phase, 220-240/220-230 V, 50/60 Hz                                                                                                                                                                                                                            |
| ★2 ★5 Cooling capacity                |                                | kcal/h       | 4,800                                                                                                                                                                                                                                                           | 6,100                                                                                                                                                                                                                                                           |
|                                       |                                | Btu/h        | 19,100                                                                                                                                                                                                                                                          | 24,200                                                                                                                                                                                                                                                          |
|                                       |                                | kW           | 5.6                                                                                                                                                                                                                                                             | 7.1                                                                                                                                                                                                                                                             |
| ★3 ★5 Heating capacity                |                                | kcal/h       | 5,400                                                                                                                                                                                                                                                           | 6,900                                                                                                                                                                                                                                                           |
|                                       |                                | Btu/h        | 21,500                                                                                                                                                                                                                                                          | 27,300                                                                                                                                                                                                                                                          |
|                                       |                                | kW           | 6.3                                                                                                                                                                                                                                                             | 8.0                                                                                                                                                                                                                                                             |
| Power input                           | Cooling                        | kW           | 0.059                                                                                                                                                                                                                                                           | 0.063                                                                                                                                                                                                                                                           |
|                                       | Heating                        | kW           | 0.056                                                                                                                                                                                                                                                           | 0.060                                                                                                                                                                                                                                                           |
| Casing / Colour                       |                                |              | Galvanized steel plate                                                                                                                                                                                                                                          | Galvanized steel plate                                                                                                                                                                                                                                          |
| Dimensions: (H×W×D)                   |                                | mm           | 305×990×620                                                                                                                                                                                                                                                     | 305×990×620                                                                                                                                                                                                                                                     |
| Coil (Cross fin coil)                 | Rows × Stages × Fin pitch      | mm           | (2×16×1.2)×2                                                                                                                                                                                                                                                    | (3×16×1.2)×2                                                                                                                                                                                                                                                    |
|                                       | Face area                      | m²           | 2×0.218                                                                                                                                                                                                                                                         | 2×0.218                                                                                                                                                                                                                                                         |
| Fan                                   | Model                          |              | ARW5207DK                                                                                                                                                                                                                                                       | EHDS14ADK                                                                                                                                                                                                                                                       |
|                                       | Type                           |              | Turbo fan                                                                                                                                                                                                                                                       | Turbo fan                                                                                                                                                                                                                                                       |
|                                       | Motor output × Number of units | W            | 56×1                                                                                                                                                                                                                                                            | 106×1                                                                                                                                                                                                                                                           |
|                                       | Airflow rate (H/HM/M/ML/L)     | m³/min       | 15/14/13/11.5/10.5                                                                                                                                                                                                                                              | 16/15/14/12.5/11.5                                                                                                                                                                                                                                              |
|                                       |                                | l/s          | 250/233/217/192/175                                                                                                                                                                                                                                             | 267/250/233/208/192                                                                                                                                                                                                                                             |
|                                       |                                | cfm          | 530/494/459/406/371                                                                                                                                                                                                                                             | 565/530/494/441/406                                                                                                                                                                                                                                             |
| Drive                                 |                                | Direct drive | Direct drive                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                 |
| Temperature control                   |                                |              | Microprocessor thermostat for cooling and heating                                                                                                                                                                                                               | Microprocessor thermostat for cooling and heating                                                                                                                                                                                                               |
| Piping connections                    | Liquid pipes                   | mm           | φ6.4 (Flare connection)                                                                                                                                                                                                                                         | φ9.5 (Flare connection)                                                                                                                                                                                                                                         |
|                                       | Gas pipes                      | mm           | φ12.7 (Flare connection)                                                                                                                                                                                                                                        | φ15.9 (Flare connection)                                                                                                                                                                                                                                        |
|                                       | ★4 Drain pipe                  | mm           | VP25<br>（ External dia. 32<br>Internal dia. 25 ）                                                                                                                                                                                                                | VP25<br>（ External dia. 32<br>Internal dia. 25 ）                                                                                                                                                                                                                |
| Mass                                  |                                | kg           | 22                                                                                                                                                                                                                                                              | 25                                                                                                                                                                                                                                                              |
| ★6 Sound pressure level (H/HM/M/ML/L) |                                | dB(A)        | 37.0/36.0/35.0/33.0/31.0                                                                                                                                                                                                                                        | 39.0/38.0/37.0/34.5/32.0                                                                                                                                                                                                                                        |
| Safety devices                        |                                |              | Fuse                                                                                                                                                                                                                                                            | Fuse                                                                                                                                                                                                                                                            |
| Refrigerant control                   |                                |              | Electronic expansion valve                                                                                                                                                                                                                                      | Electronic expansion valve                                                                                                                                                                                                                                      |
| Decoration panels (Option)            | Model                          |              | BYBCQ63CF                                                                                                                                                                                                                                                       | BYBCQ63CF                                                                                                                                                                                                                                                       |
|                                       | Panel colour                   |              | Fresh White (6.5Y9.5/0.5)                                                                                                                                                                                                                                       | Fresh White (6.5Y9.5/0.5)                                                                                                                                                                                                                                       |
|                                       | Dimensions: (H×W×D)            | mm           | 55×1,285×700                                                                                                                                                                                                                                                    | 55×1,285×700                                                                                                                                                                                                                                                    |
|                                       | Air filter                     |              | Resin net (with mould resistance)                                                                                                                                                                                                                               | Resin net (with mould resistance)                                                                                                                                                                                                                               |
|                                       | Mass                           | kg           | 11                                                                                                                                                                                                                                                              | 11                                                                                                                                                                                                                                                              |
| Standard accessories                  |                                |              | Operation manual, Installation manual, Declaration of conformity, Installation pattern paper, Washer for hanger, Metal clamp, Drain hose, Joint insulation materials, Washer clamp, Sealing materials, Clamps, Screws, Insulation piping cover for drain piping | Operation manual, Installation manual, Declaration of conformity, Installation pattern paper, Washer for hanger, Metal clamp, Drain hose, Joint insulation materials, Washer clamp, Sealing materials, Clamps, Screws, Insulation piping cover for drain piping |
| Drawing No.                           | Specification                  |              | C: 3D117680A                                                                                                                                                                                                                                                    | C: 3D117680A                                                                                                                                                                                                                                                    |
|                                       | Sound level                    |              | C: 4D118223A                                                                                                                                                                                                                                                    | C: 4D118224B                                                                                                                                                                                                                                                    |

**Notes:**

- ★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.  
★2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.  
★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.  
★4. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.  
During actual operation, these values are normally somewhat higher as a result of ambient conditions.

**Conversion formulae**

kcal/h=kW×860  
Btu/h=kW×3412  
cfm=m<sup>3</sup>/min×35.3  
l/s=m<sup>3</sup>/min×1000/60

| Model                                 |                                |        | FXCQ80AVM                                                                                                                                                                                                                                                       | FXCQ125AVM                                                                                                                                                                                                                                                      |
|---------------------------------------|--------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ★1 Power supply                       |                                |        | 1 phase, 220-240/220-230 V, 50/60 Hz                                                                                                                                                                                                                            | 1 phase, 220-240/220-230 V, 50/60 Hz                                                                                                                                                                                                                            |
| ★2 ★5 Cooling capacity                |                                | kcal/h | 7,700                                                                                                                                                                                                                                                           | 12,000                                                                                                                                                                                                                                                          |
|                                       |                                | Btu/h  | 30,700                                                                                                                                                                                                                                                          | 47,800                                                                                                                                                                                                                                                          |
|                                       |                                | kW     | 9.0                                                                                                                                                                                                                                                             | 14.0                                                                                                                                                                                                                                                            |
| ★3 ★5 Heating capacity                |                                | kcal/h | 8,600                                                                                                                                                                                                                                                           | 13,800                                                                                                                                                                                                                                                          |
|                                       |                                | Btu/h  | 34,100                                                                                                                                                                                                                                                          | 54,600                                                                                                                                                                                                                                                          |
|                                       |                                | kW     | 10.0                                                                                                                                                                                                                                                            | 16.0                                                                                                                                                                                                                                                            |
| Power input                           | Cooling                        | kW     | 0.090                                                                                                                                                                                                                                                           | 0.149                                                                                                                                                                                                                                                           |
|                                       | Heating                        | kW     | 0.086                                                                                                                                                                                                                                                           | 0.146                                                                                                                                                                                                                                                           |
| Casing / Colour                       |                                |        | Galvanized steel plate                                                                                                                                                                                                                                          | Galvanized steel plate                                                                                                                                                                                                                                          |
| Dimensions: (H×W×D)                   |                                | mm     | 305×1,445×620                                                                                                                                                                                                                                                   | 305×1,445×620                                                                                                                                                                                                                                                   |
| Coil (Cross fin coil)                 | Rows × Stages × Fin pitch      | mm     | (2×16×1.2)×2                                                                                                                                                                                                                                                    | (3×16×1.2)×2                                                                                                                                                                                                                                                    |
|                                       | Face area                      | m²     | 2×0.320                                                                                                                                                                                                                                                         | 2×0.320                                                                                                                                                                                                                                                         |
| Fan                                   | Model                          |        | ARW5205DK / ARW5206DK                                                                                                                                                                                                                                           | EHDS14BDK / EHDS14CDK                                                                                                                                                                                                                                           |
|                                       | Type                           |        | Turbo fan                                                                                                                                                                                                                                                       | Turbo fan                                                                                                                                                                                                                                                       |
|                                       | Motor output × Number of units | W      | 56+56                                                                                                                                                                                                                                                           | 106+106                                                                                                                                                                                                                                                         |
|                                       | Airflow rate (H/HM/M/ML/L)     | m³/min | 26/24/22.5/20.5/18.5                                                                                                                                                                                                                                            | 32/29.5/27.5/25/22.5                                                                                                                                                                                                                                            |
|                                       |                                | l/s    | 433/400/375/342/308                                                                                                                                                                                                                                             | 533/492/458/417/375                                                                                                                                                                                                                                             |
|                                       |                                | cfm    | 918/847/794/724/653                                                                                                                                                                                                                                             | 1,130/1,041/971/883/794                                                                                                                                                                                                                                         |
|                                       | Drive                          |        | Direct drive                                                                                                                                                                                                                                                    | Direct drive                                                                                                                                                                                                                                                    |
| Temperature control                   |                                |        | Microprocessor thermostat for cooling and heating                                                                                                                                                                                                               | Microprocessor thermostat for cooling and heating                                                                                                                                                                                                               |
| Piping connections                    | Liquid pipes                   | mm     | φ9.5 (Flare connection)                                                                                                                                                                                                                                         | φ9.5 (Flare connection)                                                                                                                                                                                                                                         |
|                                       | Gas pipes                      | mm     | φ15.9 (Flare connection)                                                                                                                                                                                                                                        | φ15.9 (Flare connection)                                                                                                                                                                                                                                        |
|                                       | ★4 Drain pipe                  | mm     | VP25<br>( External dia. 32<br>Internal dia. 25 )                                                                                                                                                                                                                | VP25<br>( External dia. 32<br>Internal dia. 25 )                                                                                                                                                                                                                |
| Mass                                  |                                | kg     | 33                                                                                                                                                                                                                                                              | 38                                                                                                                                                                                                                                                              |
| ★6 Sound pressure level (H/HM/M/ML/L) |                                | dB(A)  | 42.0/40.0/38.0/35.5/33.0                                                                                                                                                                                                                                        | 46.0/44.0/42.0/40.0/38.0                                                                                                                                                                                                                                        |
| Safety devices                        |                                |        | Fuse                                                                                                                                                                                                                                                            | Fuse                                                                                                                                                                                                                                                            |
| Refrigerant control                   |                                |        | Electronic expansion valve                                                                                                                                                                                                                                      | Electronic expansion valve                                                                                                                                                                                                                                      |
| Decoration panels (Option)            | Model                          |        | BYBCQ125CF                                                                                                                                                                                                                                                      | BYBCQ125CF                                                                                                                                                                                                                                                      |
|                                       | Panel colour                   |        | Fresh White (6.5Y9.5/0.5)                                                                                                                                                                                                                                       | Fresh White (6.5Y9.5/0.5)                                                                                                                                                                                                                                       |
|                                       | Dimensions: (H×W×D)            | mm     | 55×1,740×700                                                                                                                                                                                                                                                    | 55×1,740×700                                                                                                                                                                                                                                                    |
|                                       | Air filter                     |        | Resin net (with mould resistance)                                                                                                                                                                                                                               | Resin net (with mould resistance)                                                                                                                                                                                                                               |
|                                       | Mass                           | kg     | 13                                                                                                                                                                                                                                                              | 13                                                                                                                                                                                                                                                              |
| Standard accessories                  |                                |        | Operation manual, Installation manual, Declaration of conformity, Installation pattern paper, Washer for hanger, Metal clamp, Drain hose, Joint insulation materials, Washer clamp, Sealing materials, Clamps, Screws, Insulation piping cover for drain piping | Operation manual, Installation manual, Declaration of conformity, Installation pattern paper, Washer for hanger, Metal clamp, Drain hose, Joint insulation materials, Washer clamp, Sealing materials, Clamps, Screws, Insulation piping cover for drain piping |
| Drawing No.                           | Specification                  |        | C: 3D117680A                                                                                                                                                                                                                                                    | C: 3D117680A                                                                                                                                                                                                                                                    |
|                                       | Sound level                    |        | C: 4D118225B                                                                                                                                                                                                                                                    | C: 4D118227A                                                                                                                                                                                                                                                    |

**Notes:**

- ★1. Indoor temp.: 27°CDB, 19°CWB / outdoor temp.: 35°CDB / Equivalent piping length: 7.5 m, level difference: 0 m.  
★2. Indoor temp.: 20°CDB, 15°CWB / outdoor temp.: 7°CDB, 6°CWB / Equivalent piping length: 7.5 m, level difference: 0 m.  
★3. Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.  
★4. Anechoic chamber conversion value, measured at a point 1.5 m downward from the unit centre.  
During actual operation, these values are normally somewhat higher as a result of ambient conditions.

**Conversion formulae**

kcal/h=kW×860  
Btu/h=kW×3412  
cfm=m<sup>3</sup>/min×35.3  
l/s=m<sup>3</sup>/min×1000/60

### 3. Dimensions

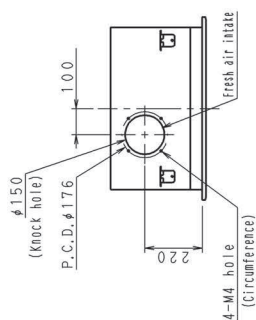
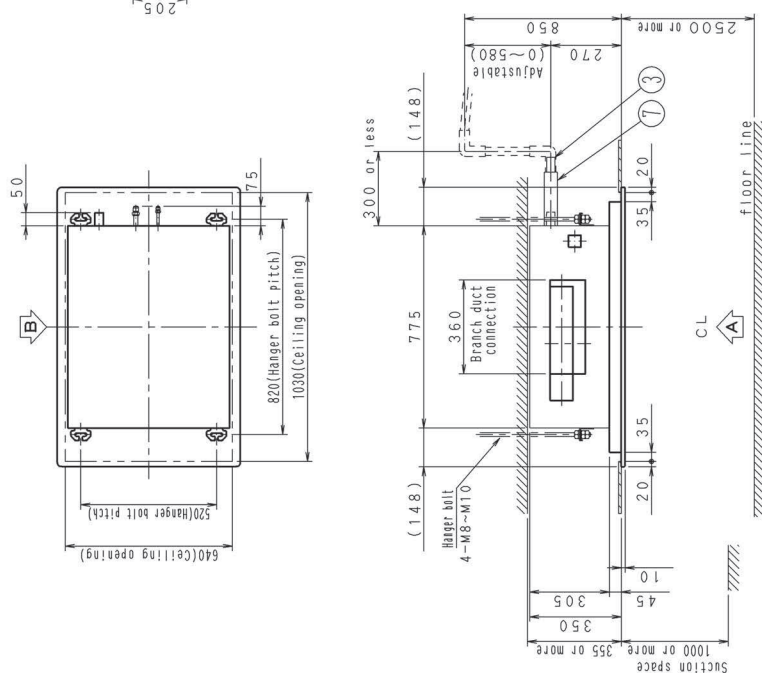
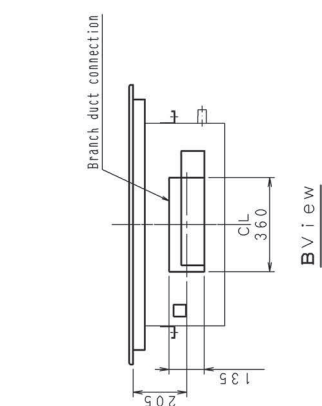
**FXCQ20AVM + BYBCQ40CF (Decoration panel)**

**FXCQ25AVM + BYBCQ40CF (Decoration panel)**

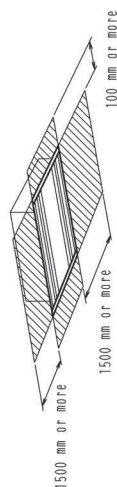
**FXCQ32AVM + BYBCQ40CF (Decoration panel)**

**FXCQ40AVM + BYBCQ40CF (Decoration panel)**

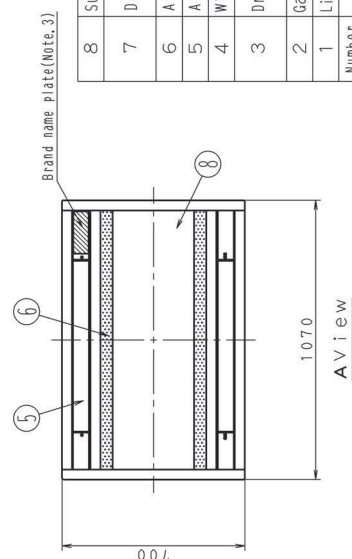
Unit: mm



- Require space



|        |                          |                                                                                                     |
|--------|--------------------------|-----------------------------------------------------------------------------------------------------|
| 8      | Suction panel            |                                                                                                     |
| 7      | Drain hose (Accessory)   | 0, D, $\phi$ 32 (0, D, $\phi$ 34 for Thailand only)<br>(Main body side connection: 0, D, $\phi$ 26) |
| 6      | Air inlet                |                                                                                                     |
| 5      | Air outlet               |                                                                                                     |
| 4      | Wiring penetrating hole  |                                                                                                     |
| 3      | Drain piping connection  | VP25 (0, D, $\phi$ 32 (0, D, $\phi$ 34 for Thailand only),<br>I, D, $\phi$ 25)                      |
| 2      | Gas piping connection    | $\phi$ 12, 7mm flare connection                                                                     |
| 1      | Liquid piping connection | $\phi$ 6, 4mm flare connection                                                                      |
| Number | Name                     | Description                                                                                         |



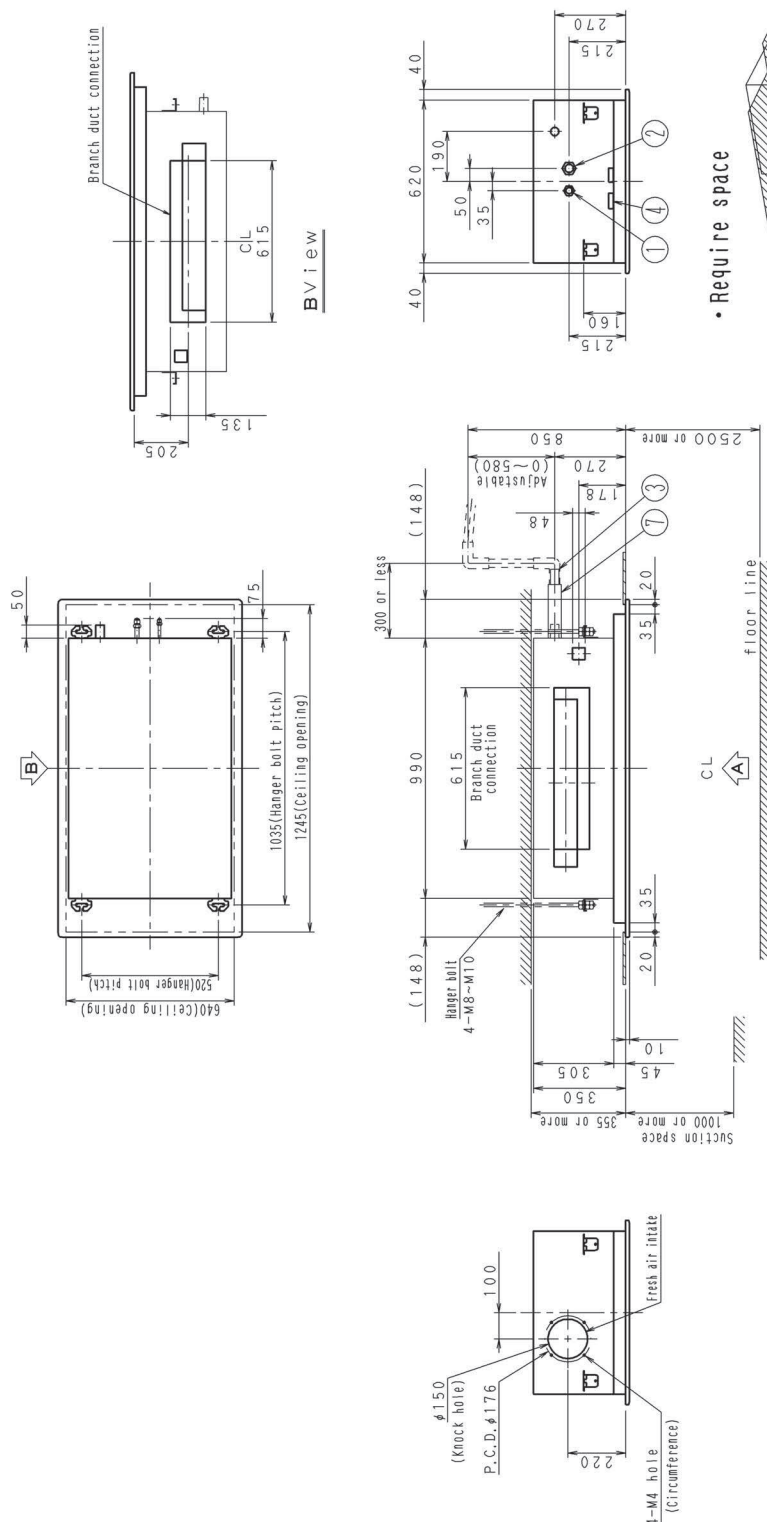
Notes:

1. Sticking location for manufacturer's label  
Manufacturer's label for indoor unit :  
Suction panel inner side's control box lid surface  
Manufacturer's label for decoration panel :  
Suction panel inner side's panel frame surface
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using wireless remote controller, this position will be a signal receiver.  
Refer to the drawing of wireless remote controller in detail.
4. When the temperature and humidity in the ceiling exceed 30°C and RH 80%, the additional insulation is required.  
Insulation : Thickness 10mm or more.  
Insulation : Glass wool or polyethylene foam.
5. Please do not place the thing being damp and trouble under an indoor unit.  
When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

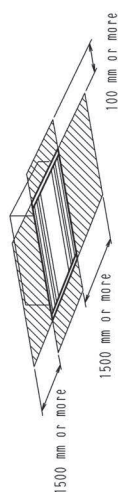
3D117667

**FXCQ50AVM + BYBCQ63CF (Decoration panel)**

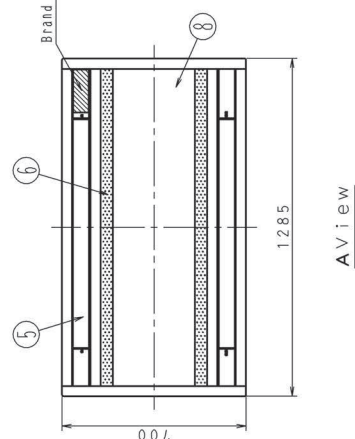
Unit: mm



- Require space



|   |                          |                                                                                                     |
|---|--------------------------|-----------------------------------------------------------------------------------------------------|
| 8 | Suction panel            |                                                                                                     |
| 7 | Drain hose (Accessory)   | O. D. $\phi$ 32 (O. D. $\phi$ 34 for Thailand only)<br>(Main body side connection: O. D. $\phi$ 26) |
| 6 | Air inlet                |                                                                                                     |
| 5 | Air outlet               |                                                                                                     |
| 4 | Wiring penetrating hole  |                                                                                                     |
| 3 | Drain piping connection  | VP25 (O. D. $\phi$ 32 (O. D. $\phi$ 34 for Thailand only),<br>I. D. $\phi$ 25)                      |
| 2 | Gas piping connection    | $\phi$ 12.7mm flare connection                                                                      |
| 1 | Liquid piping connection | $\phi$ 6.4mm flare connection                                                                       |
|   | Name                     | Decoding                                                                                            |

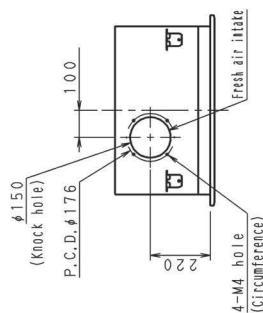
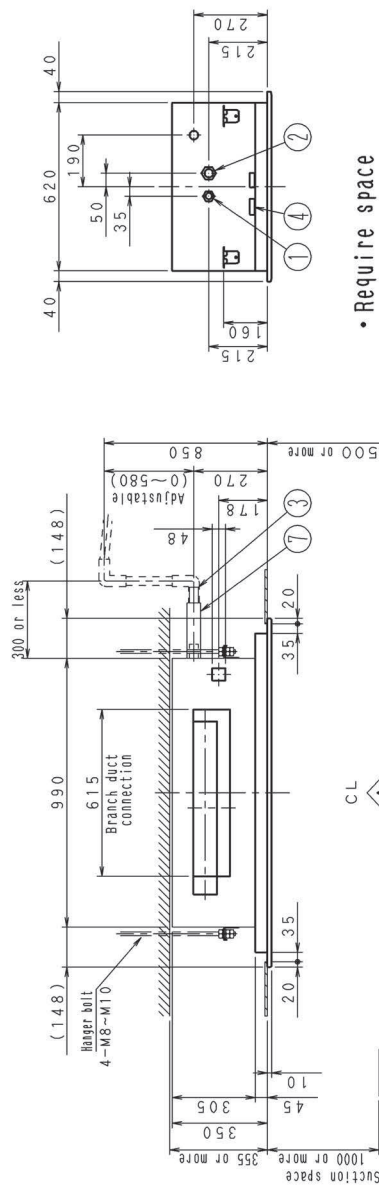
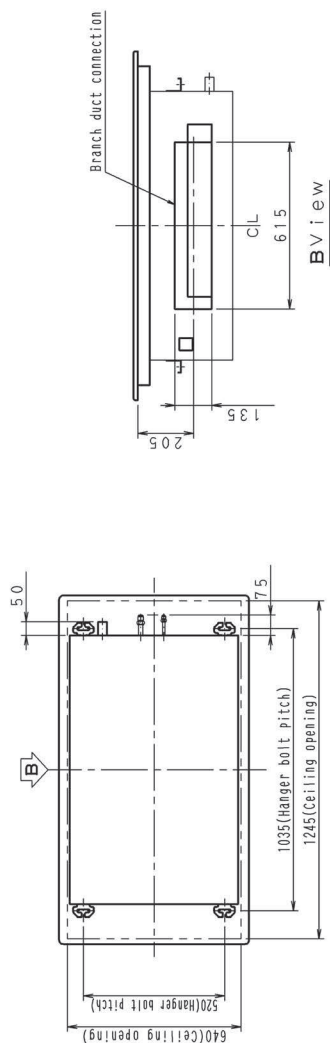


- Notes:
1. Sticking location for manufacturer's label
- Manufacturer's label for indoor unit :
- Suction panel inner side's control box lid surface
- Manufacturer's label for decoration panel :
- Suction panel inner side's panel frame surface
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using wireless remote controller, this position will be a signal receiver.  
    Refer to the drawing of wireless remote controller in detail.
4. When the temperature and humidity in the ceiling exceed 30°C and the additional insulation is required,  
    Insulation : Thickness 10mm or more.  
    Insulation : Glass wool or polyethylene foam.
5. Please do not place the thing being damp and trouble under an indoor unit.  
    When the case where humidity is 80% or more, and the drain outlet choked up and the air filter are dirty, dew may fall.

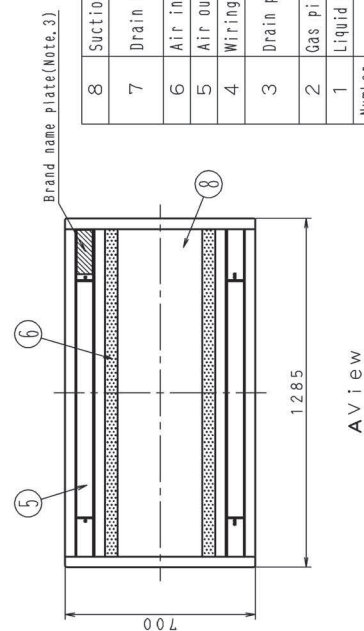
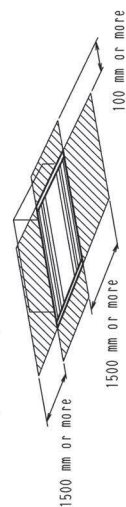
3D117668

**FXCQ63AVM + BYBCQ63CF (Decoration panel)**

Unit: mm



- Require space



|        |                          |                                                                                                     |
|--------|--------------------------|-----------------------------------------------------------------------------------------------------|
| 8      | Suction panel            |                                                                                                     |
| 7      | Drain hose (Accessory)   | O. D. $\phi$ 32 (O. D. $\phi$ 34 for Thailand only)<br>(Main body side connection: O. D. $\phi$ 26) |
| 6      | Air inlet                |                                                                                                     |
| 5      | Air outlet               |                                                                                                     |
| 4      | Wiring penetrating hole  |                                                                                                     |
| 3      | Drain piping connection  | VP25 (O. D. $\phi$ 32 (O. D. $\phi$ 34 for Thailand only),<br>I. D. $\phi$ 25)                      |
| 2      | Gas piping connection    | $\phi$ 15.9mm flare connection                                                                      |
| 1      | Liquid piping connection | $\phi$ 9.5mm flare connection                                                                       |
| Number | Name                     | Description                                                                                         |

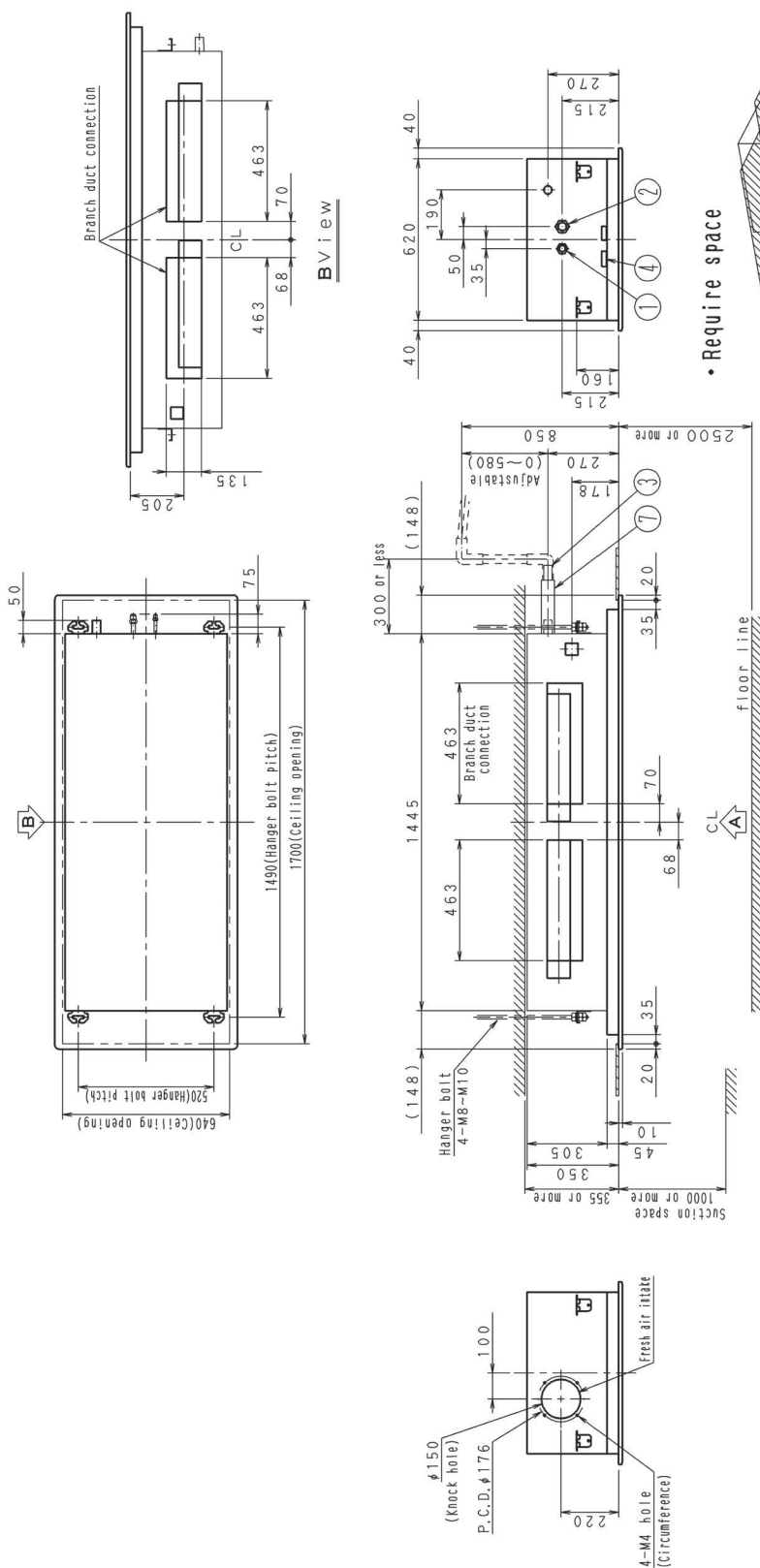
Notes:

1. Striking location for manufacturer's label  
Manufacturer's label for indoor unit :  
Suction panel inner side's control box lid surface  
Manufacturer's label for decoration panel :  
Suction panel inner side's panel frame surface
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using wireless remote controller, this position will be a signal receiver.  
Refer to the drawing of wireless remote controller in detail.
4. When the temperature and humidity in the ceiling exceed 30°C and RH 80%, the additional insulation is required.  
Insulation : Thickness 10mm or more,  
Glass wool or polyethylene foam.
5. Please do not place the thing been damp and trouble under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

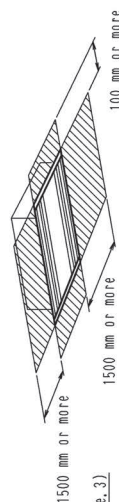
3D117670A

**FXCQ80AVM + BYBCQ125CF (Decoration panel)**  
**FXCQ125AVM + BYBCQ125CF (Decoration panel)**

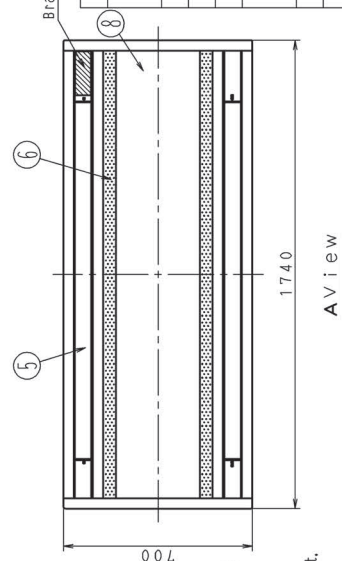
Unit: mm



- Require space



|        |                          |                                                                                                     |
|--------|--------------------------|-----------------------------------------------------------------------------------------------------|
| 8      | Suction panel            |                                                                                                     |
| 7      | Drain hose (Accessory)   | O. D. $\phi$ 32 (O. D. $\phi$ 34 for Thailand only)<br>(Main body side connection: O. D. $\phi$ 26) |
| 6      | Air inlet                |                                                                                                     |
| 5      | Air outlet               |                                                                                                     |
| 4      | Wiring penetrating hole  |                                                                                                     |
| 3      | Drain piping connection  | VP25 (O. D. $\phi$ 32 (O. D. $\phi$ 34 for Thailand only),<br>I. D. $\phi$ 25)                      |
| 2      | Gas piping connection    | $\phi$ 15.9mm flare connection                                                                      |
| 1      | Liquid piping connection | $\phi$ 9.5mm flare connection                                                                       |
| Number | Name                     | Description                                                                                         |

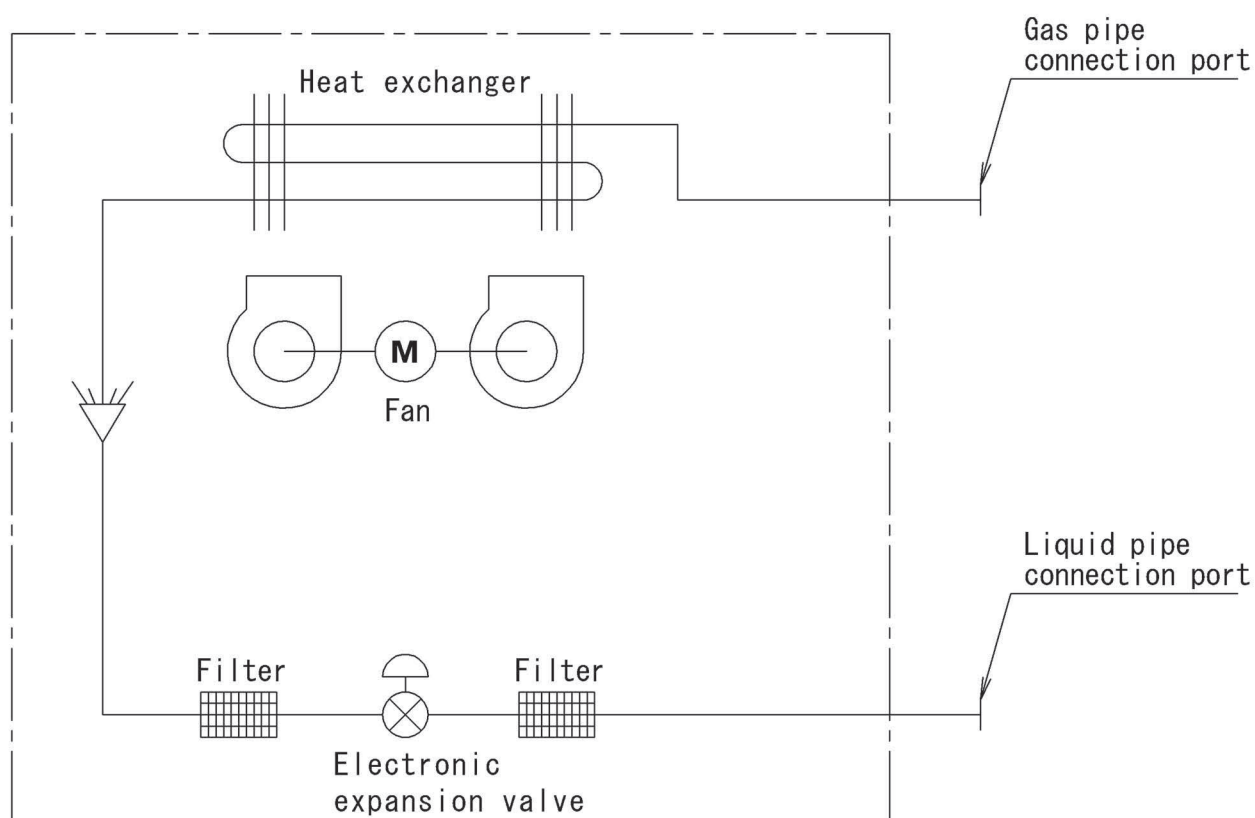


5. Please do not place the thing been damp and trouble under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

3D117671A

## 4. Piping Diagrams

FXCQ20AVM / FXCQ25AVM / FXCQ32AVM / FXCQ40AVM / FXCQ50AVM / FXCQ63AVM /  
FXCQ80AVM / FXCQ125AVM



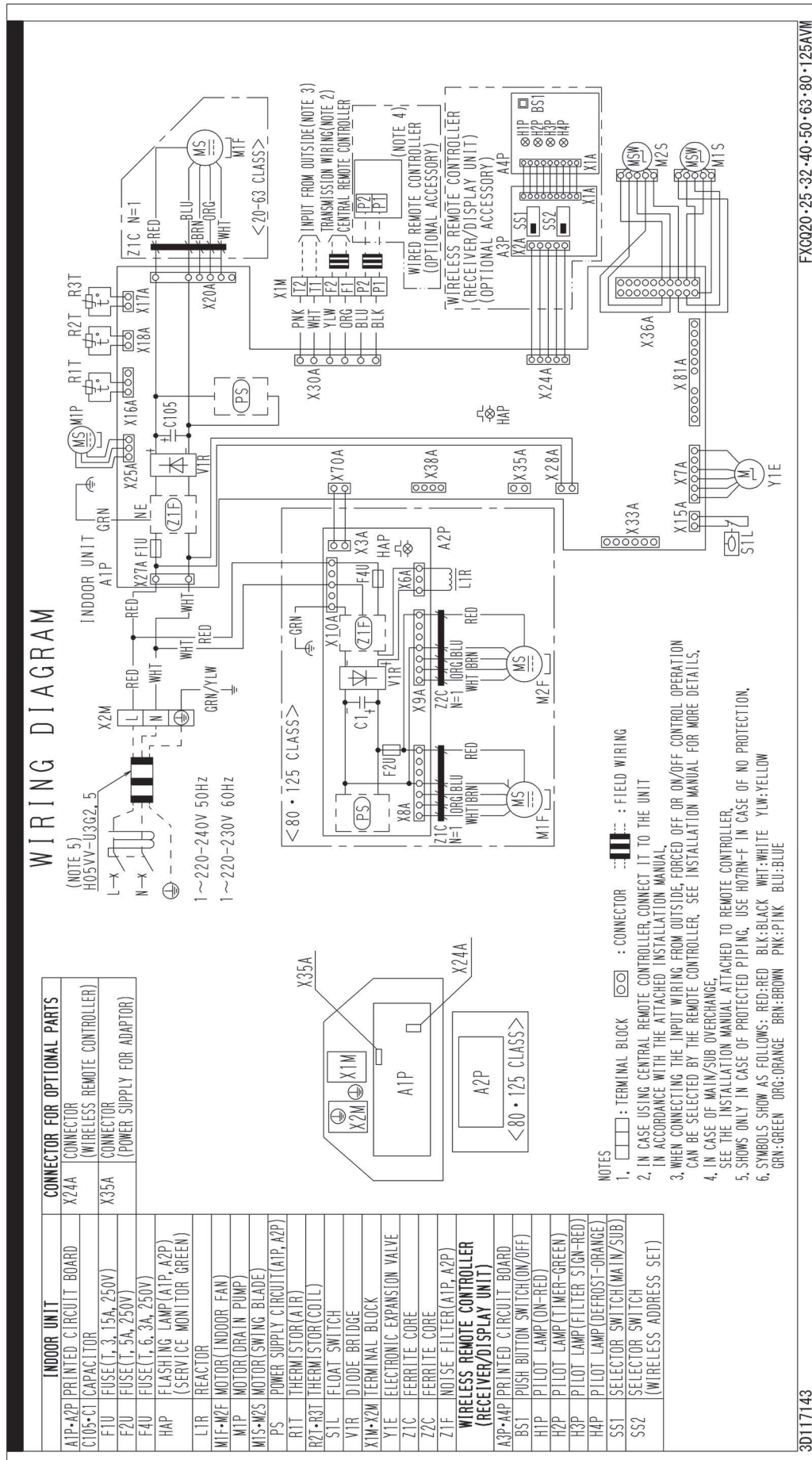
4D118229

### ■ Refrigerant pipe connection port diameters

| Model                                                     | Unit: mm |        |
|-----------------------------------------------------------|----------|--------|
|                                                           | Gas      | Liquid |
| FXCQ20AVM / FXCQ25AVM / FXCQ32AVM / FXCQ40AVM / FXCQ50AVM | φ12.7    | φ6.4   |
| FXCQ63AVM / FXCQ80AVM / FXCQ125AVM                        | φ15.9    | φ9.5   |

## 5. Wiring Diagrams

FXCQ20AVM / FXCQ25AVM / FXCQ32AVM / FXCQ40AVM / FXCQ50AVM / FXCQ63AVM /  
FXCQ80AVM / FXCQ125AVM



## 6. Electric Characteristics

**FXCQ20AVM / FXCQ25AVM / FXCQ32AVM / FXCQ40AVM / FXCQ50AVM / FXCQ63AVM / FXCQ80AVM / FXCQ125AVM**

| Units          |    |         |                           | Power supply |     | IFM                 |     | Input (W) |         |
|----------------|----|---------|---------------------------|--------------|-----|---------------------|-----|-----------|---------|
| Model          | Hz | Volts   | Voltage range             | MCA          | MFA | kW                  | FLA | Cooling   | Heating |
| FXCQ20AVM      | 50 | 220-240 | MAX. 264<br>Min. 198<br>/ | 0.3          | 16  | 0.056               | 0.2 | 31        | 28      |
| FXCQ25AVM      |    |         |                           | 0.3          | 16  | 0.056               | 0.2 | 39        | 35      |
| FXCQ32AVM      |    |         |                           | 0.3          | 16  | 0.056               | 0.2 | 39        | 35      |
| FXCQ40AVM      |    |         |                           | 0.3          | 16  | 0.056               | 0.2 | 41        | 37      |
| FXCQ50AVM      |    |         |                           | 0.4          | 16  | 0.056               | 0.3 | 59        | 56      |
| FXCQ63AVM      | 60 | 220-230 | MAX. 253<br>Min. 198      | 0.5          | 16  | 0.106               | 0.4 | 63        | 60      |
| FXCQ80AVM      |    |         |                           | 0.6          | 16  | 0.056<br>+<br>0.056 | 0.5 | 90        | 86      |
| FXCQ125AVM     |    |         |                           | 1.1          | 16  | 0.106<br>+<br>0.106 | 0.9 | 149       | 146     |
| FXCQ20AVMS(4)  | 50 | 220     | MAX. 242<br>Min. 198      | 0.3          | 16  | 0.056               | 0.2 | 31        | 28      |
| FXCQ25AVMS(4)  |    |         |                           | 0.3          | 16  | 0.056               | 0.2 | 39        | 35      |
| FXCQ32AVMS(4)  |    |         |                           | 0.3          | 16  | 0.056               | 0.2 | 39        | 35      |
| FXCQ40AVMS(4)  |    |         |                           | 0.3          | 16  | 0.056               | 0.2 | 41        | 37      |
| FXCQ50AVMS(4)  |    |         |                           | 0.4          | 16  | 0.056               | 0.3 | 59        | 56      |
| FXCQ63AVMS(4)  |    |         |                           | 0.5          | 16  | 0.106               | 0.4 | 63        | 60      |
| FXCQ80AVMS(4)  |    |         |                           | 0.6          | 16  | 0.056<br>+<br>0.056 | 0.5 | 90        | 86      |
| FXCQ125AVMS(4) |    |         |                           | 1.1          | 16  | 0.106<br>+<br>0.106 | 0.9 | 149       | 146     |

Symbols :

MCA : Min. Circuit Amps (A)  
MFA : Max Fuse Amps (See note 5)  
kW : Fan Motor Rated Output (kW)  
FLA : Full Load Amps (A)  
IFM : Indoor Fan Motor

Note :

- 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 unbalance between phases is 2 %.
- MCA/MFA  
 $MCA = 1.25 \times FLA$   
 $MFA \leq 4 \times FLA$   
(Next lower standard fuse rating. Min 16A)
- Select wire size based on the MCA.
- Instead of fuse, use Circuit Breaker.

|                   |     |                         |
|-------------------|-----|-------------------------|
| Minimum Ssc value | kVA | EN61000-3-2 is applied. |
|-------------------|-----|-------------------------|

## 7. Safety Devices Setting

| Model                       |    | FXCQ20AVM     | FXCQ25AVM     | FXCQ32AVM     | FXCQ40AVM     |
|-----------------------------|----|---------------|---------------|---------------|---------------|
| PCB fuse                    |    | 250 V, 3.15 A | 250 V, 3.15 A | 250 V, 3.15 A | 250 V, 3.15 A |
| PCB fuse (Fan driver)       |    | —             | —             | —             | —             |
| Fan motor thermal fuse      | °C | —             | —             | —             | —             |
| Fan motor thermal protector | °C | —             | —             | —             | —             |
| Drain pump thermal fuse     | °C | —             | —             | —             | —             |

| Model                       |    | FXCQ50AVM     | FXCQ63AVM     | FXCQ80AVM                  | FXCQ125AVM                 |
|-----------------------------|----|---------------|---------------|----------------------------|----------------------------|
| PCB fuse                    |    | 250 V, 3.15 A | 250 V, 3.15 A | 250 V, 3.15 A              | 250 V, 3.15 A              |
| PCB fuse (Fan driver)       |    | —             | —             | 250 V, 5 A<br>250 V, 6.3 A | 250 V, 5 A<br>250 V, 6.3 A |
| Fan motor thermal fuse      | °C | —             | —             | —                          | —                          |
| Fan motor thermal protector | °C | —             | —             | —                          | —                          |
| Drain pump thermal fuse     | °C | —             | —             | —                          | —                          |

3D118231

## 8. Capacity Tables

### 8.1 Cooling Capacity for Te: Auto

| Model      | Capacity indication | Indoor air temp. |      |        |      |        |      |        |     |        |     |        |     |        |     |
|------------|---------------------|------------------|------|--------|------|--------|------|--------|-----|--------|-----|--------|-----|--------|-----|
|            |                     | 14°CWB           |      | 16°CWB |      | 18°CWB |      | 19°CWB |     | 20°CWB |     | 22°CWB |     | 24°CWB |     |
|            |                     | 20°CDB           |      | 23°CDB |      | 26°CDB |      | 27°CDB |     | 28°CDB |     | 30°CDB |     | 32°CDB |     |
|            |                     | TC               | SHC  | TC     | SHC  | TC     | SHC  | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC |
| FXCQ20AVM  | 20                  | 1.9              | 1.8  | 2.1    | 2.0  | 2.2    | 2.0  | 2.2    | 1.9 | 2.2    | 1.8 | 2.3    | 1.7 | 2.3    | 1.7 |
| FXCQ25AVM  | 25                  | 2.5              | 2.2  | 2.6    | 2.4  | 2.8    | 2.4  | 2.8    | 2.3 | 2.8    | 2.2 | 2.9    | 2.1 | 3.0    | 2.1 |
| FXCQ32AVM  | 32                  | 3.2              | 2.7  | 3.4    | 2.8  | 3.5    | 2.8  | 3.6    | 2.6 | 3.6    | 2.6 | 3.7    | 2.6 | 3.8    | 2.5 |
| FXCQ40AVM  | 40                  | 4.0              | 3.4  | 4.2    | 3.5  | 4.4    | 3.5  | 4.5    | 3.2 | 4.6    | 3.1 | 4.7    | 3.0 | 4.8    | 3.0 |
| FXCQ50AVM  | 50                  | 4.9              | 4.0  | 5.3    | 4.2  | 5.5    | 4.3  | 5.6    | 3.9 | 5.7    | 3.8 | 5.8    | 3.6 | 5.9    | 3.1 |
| FXCQ63AVM  | 63                  | 6.3              | 5.2  | 6.7    | 5.9  | 7.0    | 5.5  | 7.1    | 5.0 | 7.2    | 5.4 | 7.3    | 5.3 | 7.5    | 5.9 |
| FXCQ80AVM  | 80                  | 7.9              | 6.5  | 8.5    | 6.9  | 8.8    | 6.9  | 9.0    | 6.5 | 9.1    | 6.3 | 9.3    | 6.1 | 9.5    | 6.1 |
| FXCQ125AVM | 125                 | 12.3             | 10.0 | 13.2   | 10.4 | 13.8   | 10.7 | 14.0   | 9.9 | 14.2   | 9.8 | 14.5   | 9.5 | 14.8   | 9.0 |

TC: Total capacity: kW  
SHC: Sensible heat capacity: kW

#### Notes:

- These capacity tables are for use when selecting a **VRV** indoor unit. The actual capacity of the **VRV** system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the **VRV** system satisfies the required heat load.
- ☐ shows rated condition.

### 8.2 Cooling Capacity for Te: 6°C

| Model      | Capacity indication | Indoor air temp. |     |        |     |        |     |        |     |        |     |        |     |        |     |
|------------|---------------------|------------------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|
|            |                     | 14°CWB           |     | 16°CWB |     | 18°CWB |     | 19°CWB |     | 20°CWB |     | 22°CWB |     | 24°CWB |     |
|            |                     | 20°CDB           |     | 23°CDB |     | 26°CDB |     | 27°CDB |     | 28°CDB |     | 30°CDB |     | 32°CDB |     |
|            |                     | TC               | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC | TC     | SHC |
| FXCQ20AVM  | 20                  | 1.5              | 1.4 | 1.8    | 1.7 | 2.1    | 1.9 | 2.2    | 1.9 | 2.2    | 1.8 | 2.3    | 1.7 | 2.3    | 1.7 |
| FXCQ25AVM  | 25                  | 1.9              | 1.7 | 2.3    | 2.0 | 2.6    | 2.2 | 2.8    | 2.3 | 2.8    | 2.2 | 2.9    | 2.1 | 3.0    | 2.1 |
| FXCQ32AVM  | 32                  | 2.4              | 2.0 | 2.9    | 2.3 | 3.4    | 2.6 | 3.6    | 2.6 | 3.6    | 2.6 | 3.7    | 2.6 | 3.8    | 2.5 |
| FXCQ40AVM  | 40                  | 3.0              | 2.5 | 3.6    | 2.9 | 4.2    | 3.2 | 4.5    | 3.2 | 4.6    | 3.1 | 4.7    | 3.0 | 4.8    | 3.0 |
| FXCQ50AVM  | 50                  | 3.8              | 3.0 | 4.5    | 3.5 | 5.2    | 3.9 | 5.6    | 3.9 | 5.7    | 3.8 | 5.8    | 3.6 | 5.9    | 3.1 |
| FXCQ63AVM  | 63                  | 4.8              | 3.9 | 5.7    | 4.9 | 6.6    | 5.0 | 7.1    | 5.0 | 7.2    | 5.4 | 7.4    | 5.3 | 7.5    | 5.9 |
| FXCQ80AVM  | 80                  | 6.1              | 4.9 | 7.2    | 5.7 | 8.4    | 6.3 | 9.0    | 6.5 | 9.1    | 6.3 | 9.3    | 6.1 | 9.5    | 6.1 |
| FXCQ125AVM | 125                 | 9.4              | 7.5 | 11.3   | 8.7 | 13.1   | 9.7 | 14.0   | 9.9 | 14.2   | 9.8 | 14.5   | 9.5 | 14.9   | 9.1 |

TC: Total capacity: kW  
SHC: Sensible heat capacity: kW

#### Notes:

- These capacity tables are for use when selecting a **VRV** indoor unit. The actual capacity of the **VRV** system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the **VRV** system satisfies the required heat load.
- ☐ shows rated condition.

### 8.3 Heating Capacity

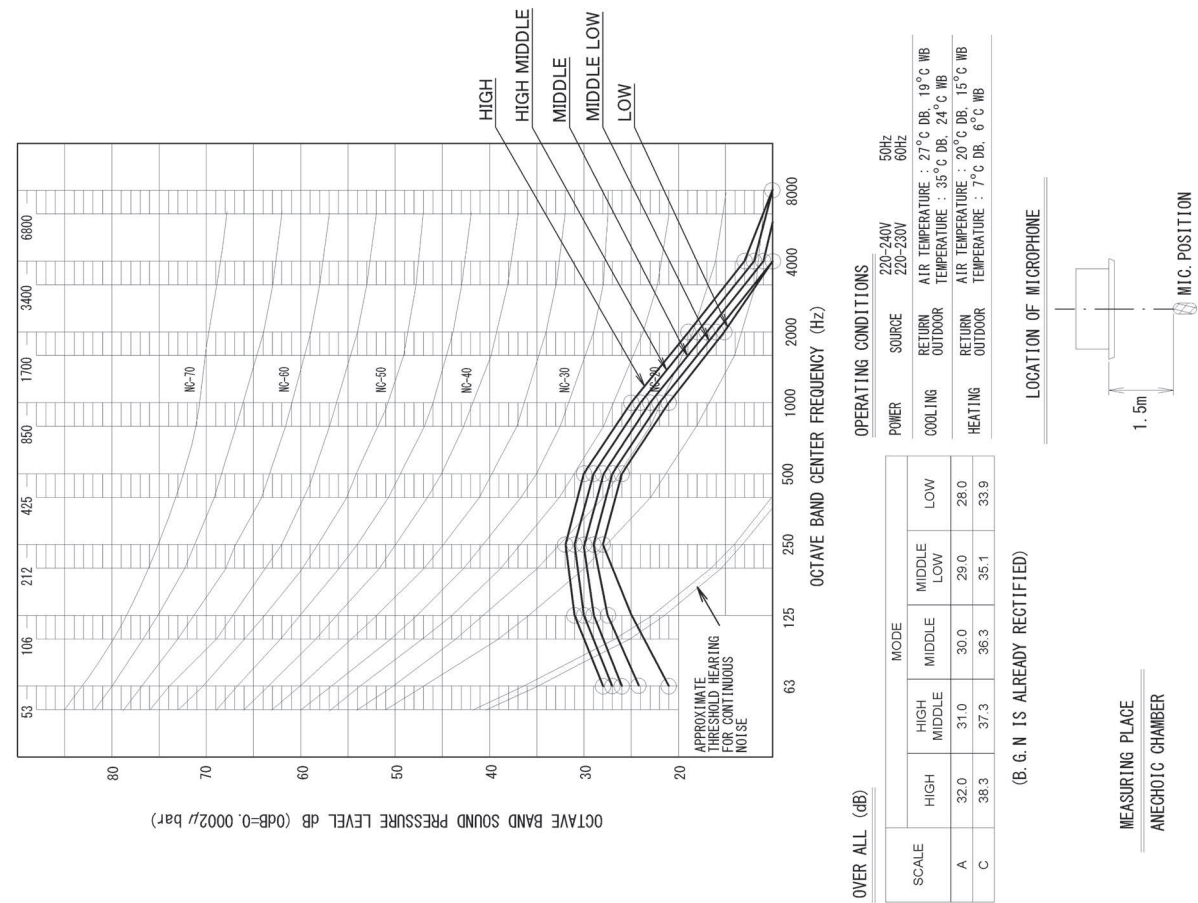
| Model      | Capacity indication | Indoor air temp. |        |        |        |        |        |
|------------|---------------------|------------------|--------|--------|--------|--------|--------|
|            |                     | 16°CDB           | 18°CDB | 20°CDB | 21°CDB | 22°CDB | 24°CDB |
|            |                     | kW               | kW     | kW     | kW     | kW     | kW     |
| FXCQ20AVM  | 20                  | 2.6              | 2.6    | 2.5    | 2.4    | 2.3    | 2.2    |
| FXCQ25AVM  | 25                  | 3.4              | 3.4    | 3.2    | 3.1    | 3.0    | 2.8    |
| FXCQ32AVM  | 32                  | 4.2              | 4.2    | 4.0    | 3.9    | 3.7    | 3.5    |
| FXCQ40AVM  | 40                  | 5.2              | 5.2    | 5.0    | 4.8    | 4.7    | 4.4    |
| FXCQ50AVM  | 50                  | 6.6              | 6.6    | 6.3    | 6.1    | 5.9    | 5.5    |
| FXCQ63AVM  | 63                  | 8.4              | 8.4    | 8.0    | 7.7    | 7.5    | 7.0    |
| FXCQ80AVM  | 80                  | 10.5             | 10.5   | 10.0   | 9.7    | 9.4    | 8.7    |
| FXCQ125AVM | 125                 | 16.8             | 16.8   | 16.0   | 15.5   | 15.0   | 13.9   |

**Notes:**

1. These capacity tables are for use when selecting a **VRV** indoor unit. The actual capacity of the **VRV** system depends on factors such as the selected model of outdoor units, outdoor air temperature and piping length. Please confirm that the corrected capacity of the **VRV** system satisfies the required heat load.
2.   shows rated condition.

9. Sound Levels

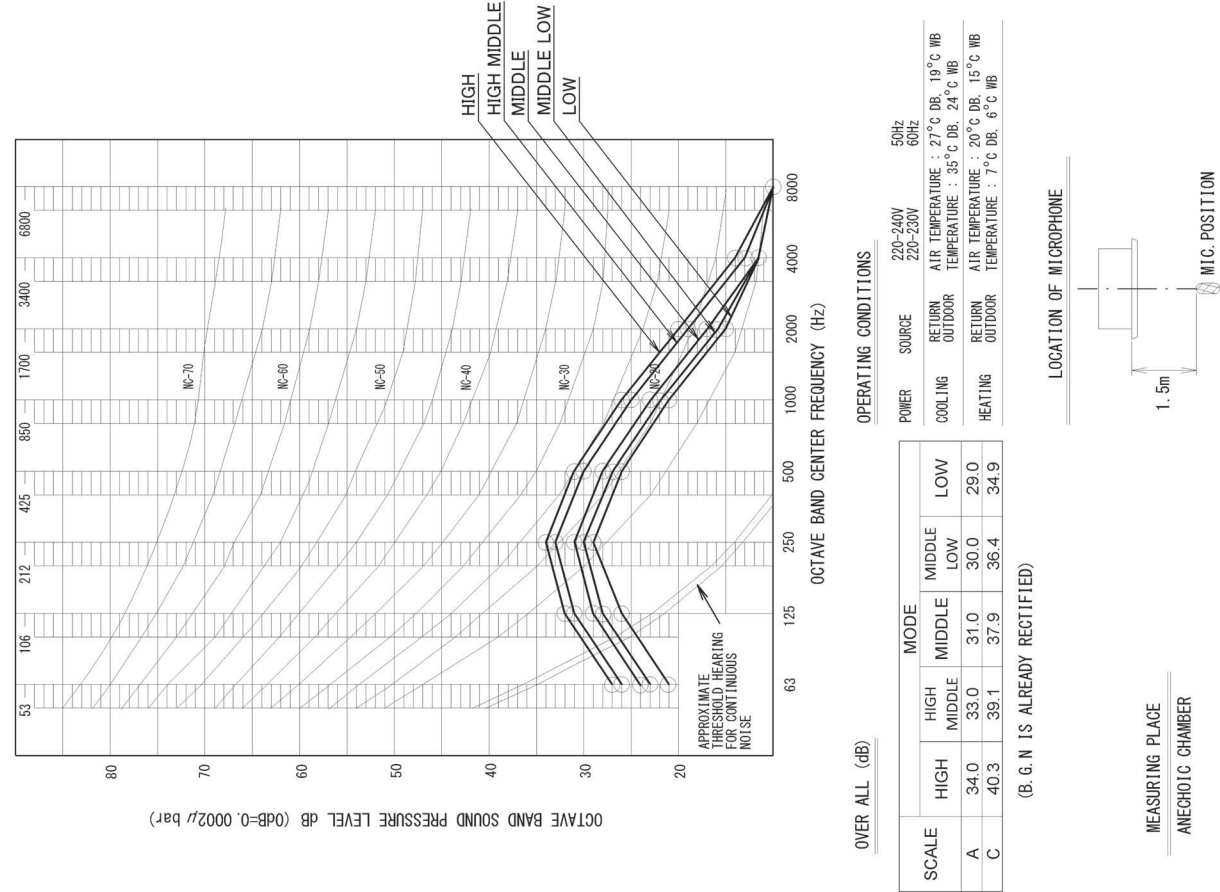
FXCQ20AVM



NOTE : OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D118212A

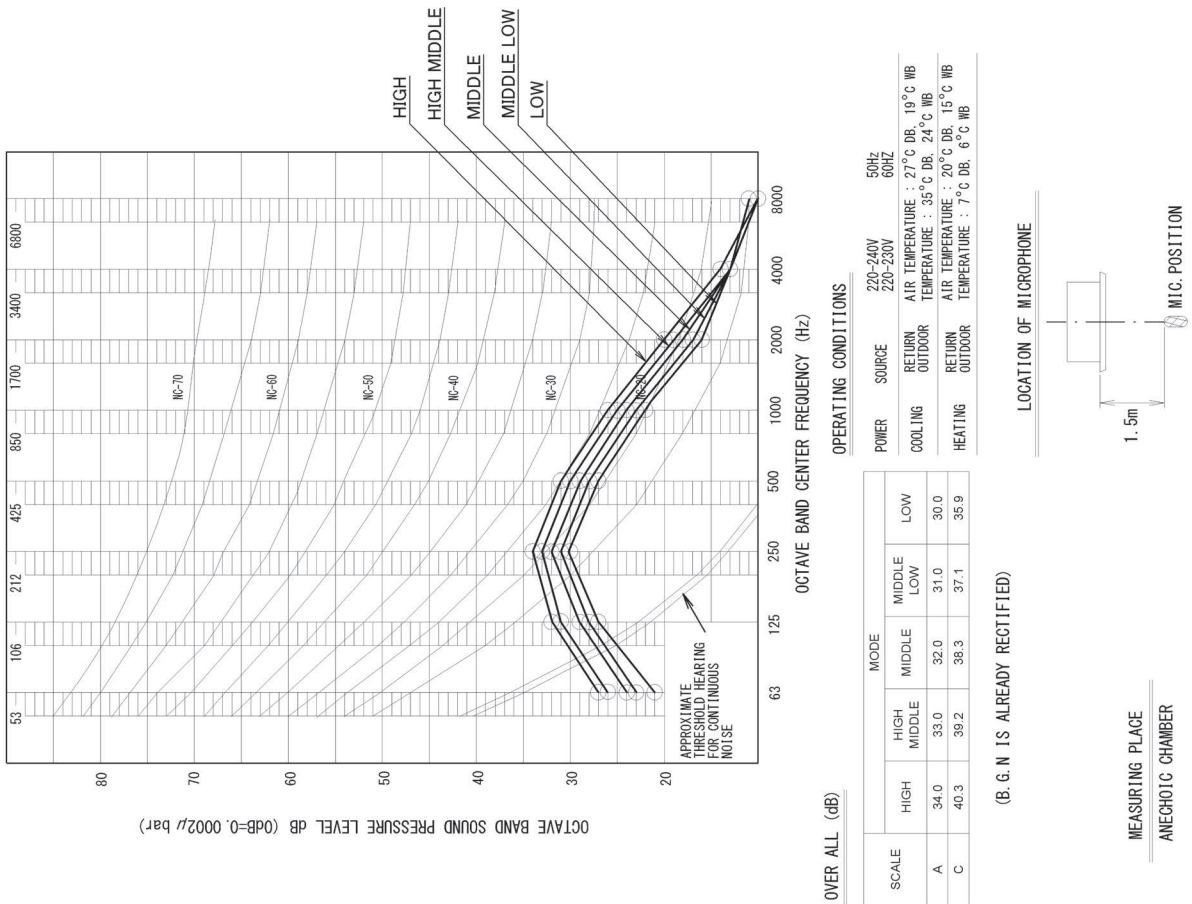
FXCQ25AVM



NOTE : OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D118219A

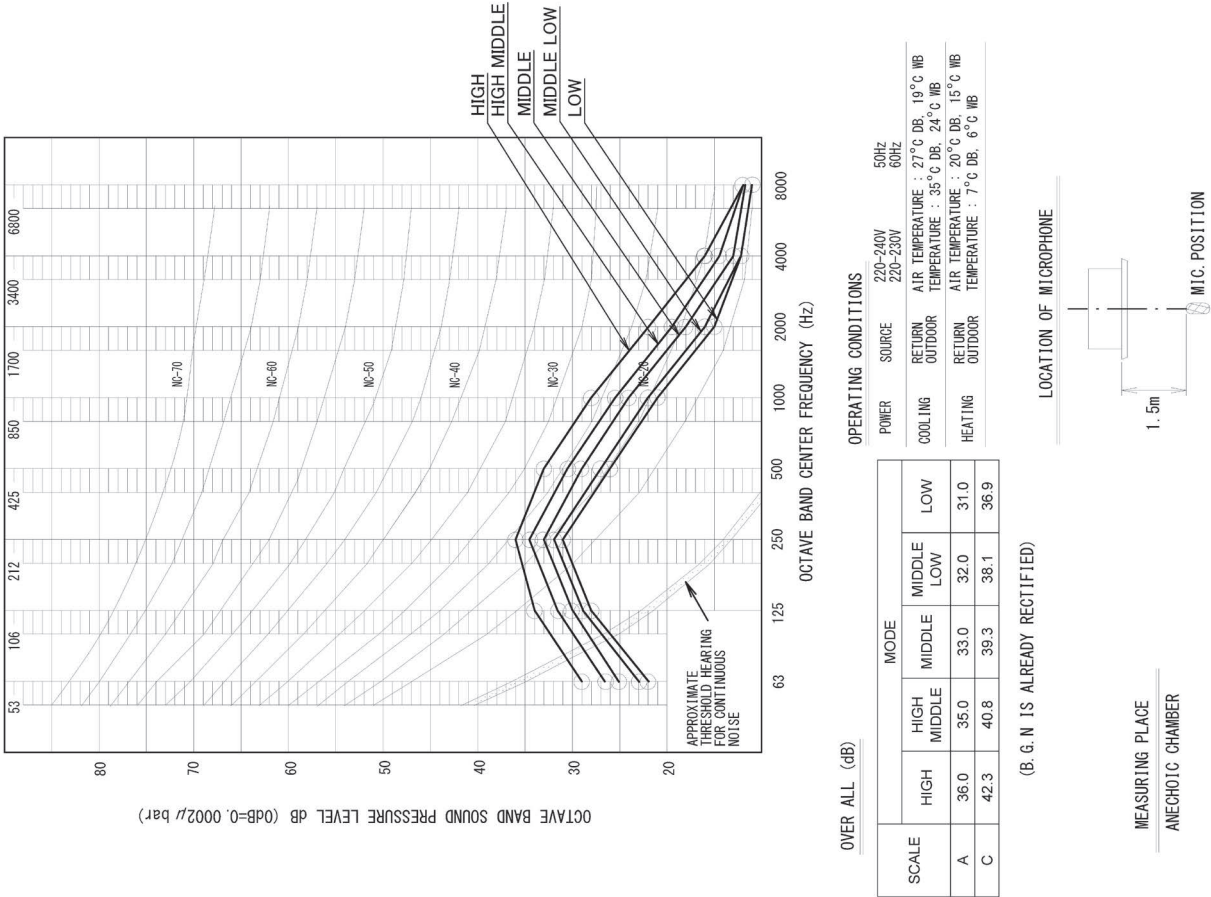
FXCQ32AVM



NOTE : OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D118221A

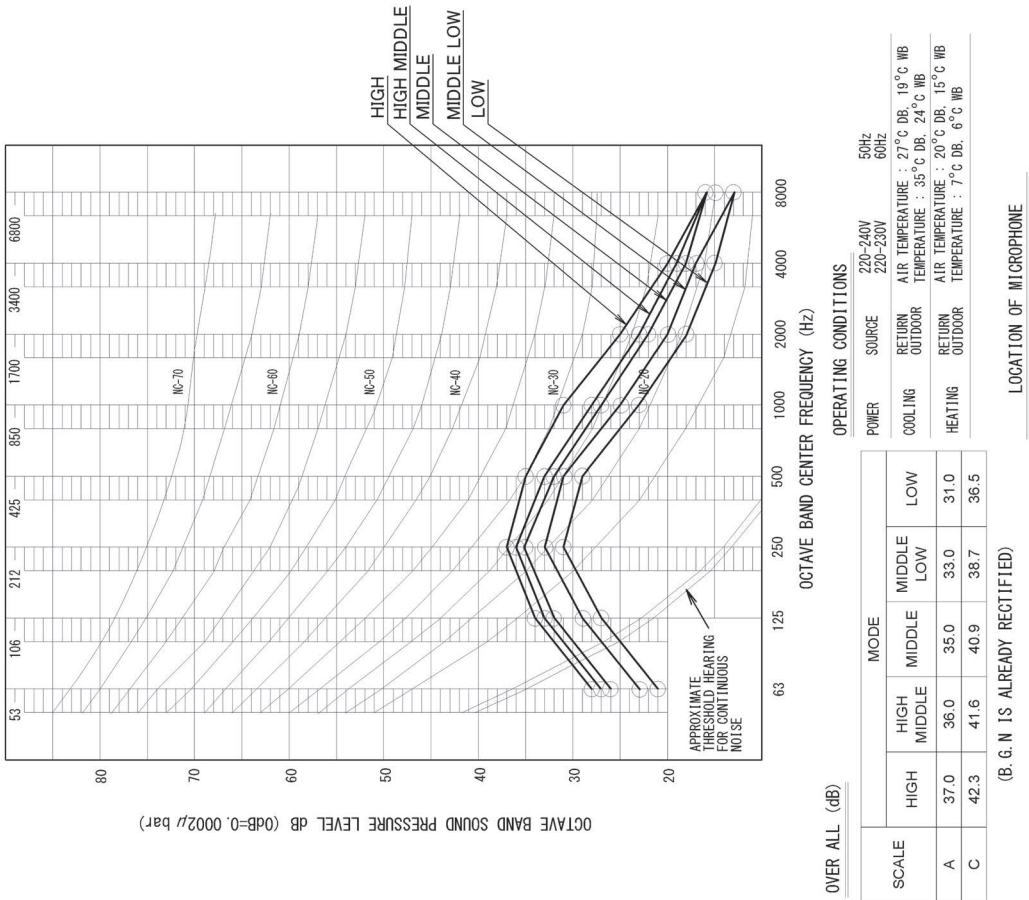
FXCQ40AVM



NOTE : OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D118222B

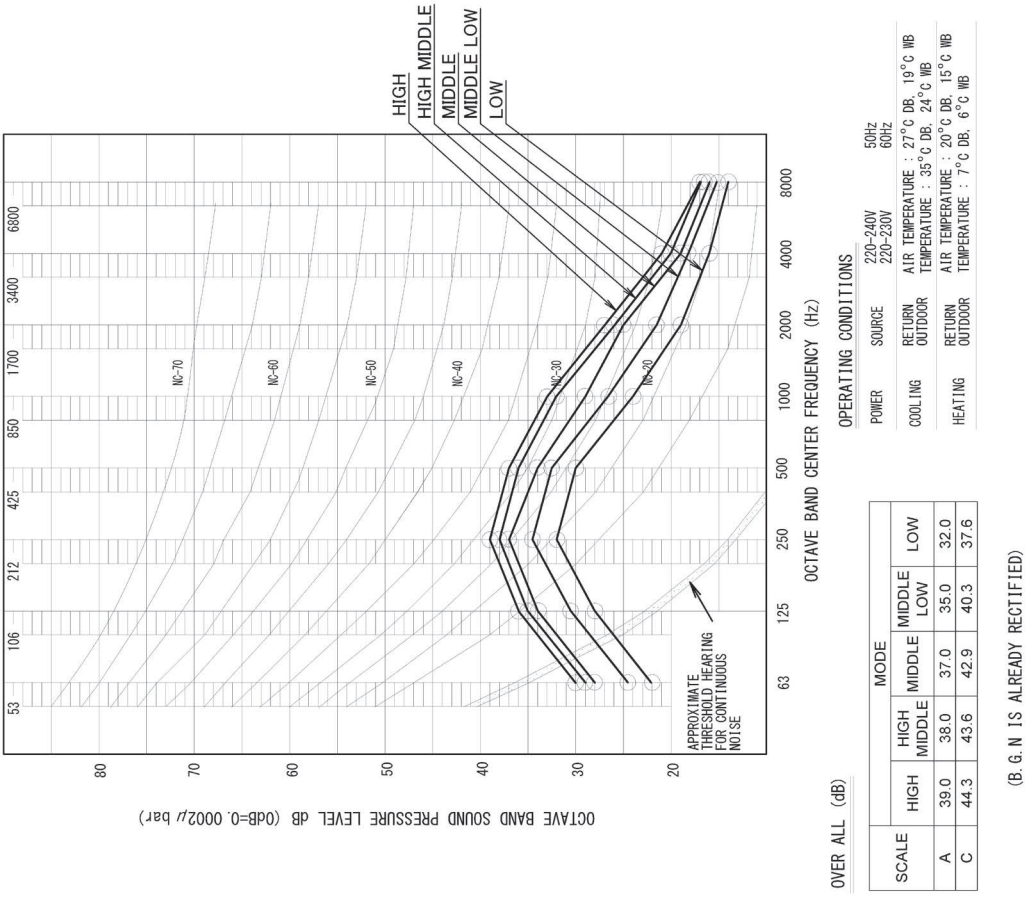
FXCQ50AVM



NOTE : OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D118223A

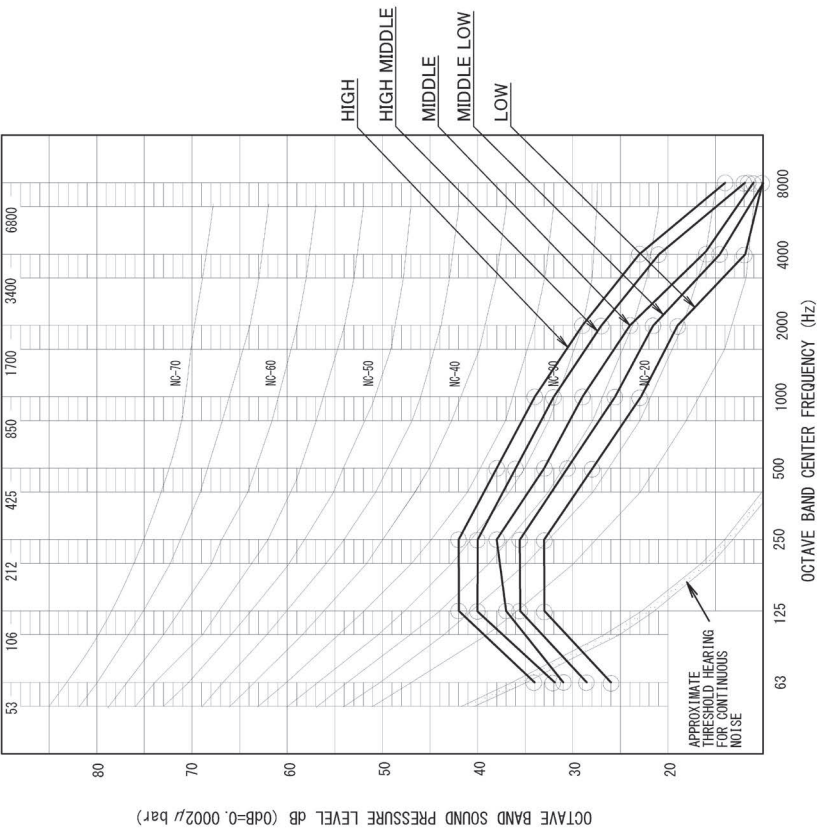
FXCQ63AVM



NOTE : OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

4D118224B

FXCQ80AVM

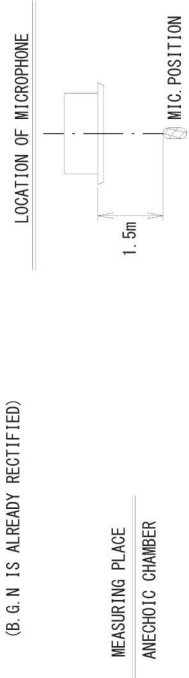


OPERATING CONDITIONS

| POWER   | SOURCE  | 220-240V                           | 50Hz | 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       |      |      |

OVER ALL (dB)

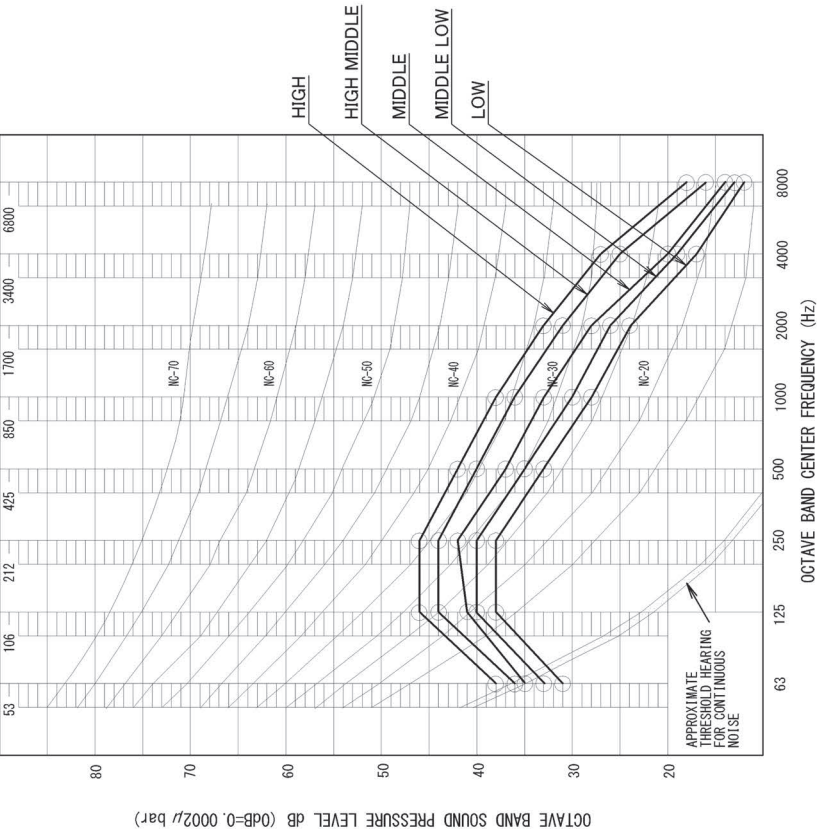
| SCALE | HIGH | HIGH MIDDLE | MIDDLE | MIDDLE LOW | LOW  |
|-------|------|-------------|--------|------------|------|
| A     | 42.0 | 40.0        | 38.0   | 36.0       | 33.0 |
| C     | 48.5 | 46.7        | 44.8   | 42.5       | 40.2 |



NOTE : OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

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FXCQ125AVM

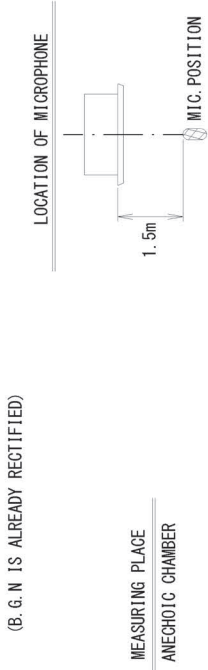


OPERATING CONDITIONS

| POWER   | SOURCE  | 220-240V                           | 50Hz | 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       |      |      |

OVER ALL (dB)

| SCALE | HIGH | HIGH MIDDLE | MIDDLE | MIDDLE LOW | LOW  |
|-------|------|-------------|--------|------------|------|
| A     | 46.0 | 44.0        | 42.0   | 40.0       | 38.0 |
| C     | 52.5 | 50.7        | 48.8   | 47.0       | 45.2 |



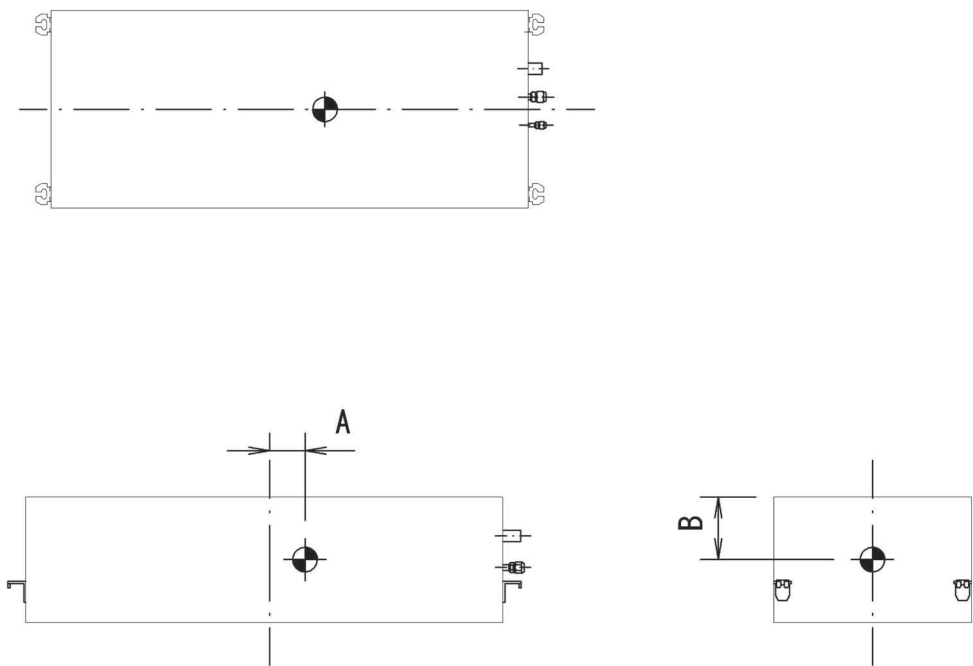
NOTE : OPERATION NOISE DIFFERS WITH OPERATION AND AMBIENT CONDITIONS.

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10.Centre of Gravity

FXCQ20AVM / FXCQ25AVM / FXCQ32AVM / FXCQ40AVM / FXCQ50AVM / FXCQ63AVM /  
FXCQ80AVM / FXCQ125AVM

Unit: mm



| MODEL                        | A  | B   |
|------------------------------|----|-----|
| FXCQ20, 25, 32, 40AVM(S) (4) | 30 | 120 |
| FXCQ50, 63AVM(S) (4)         | 40 | 120 |
| FXCQ80, 125AVM(S) (4)        | 15 | 110 |