

FXHQ-AVM

Ceiling Suspended Type

60 Hz

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1. Lineup

Capacity range	14.0 kW	16.0 kW
	5 HP	6 HP
Capacity index	125	140
FXHQ	125AVM	140AVM

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



2. Specifications

Model				FXHQ125AVM		FXHQ140AVM	
Power supply				1 phase, 220-240 V/220-230 V, 50/60 Hz		1 phase, 220-240 V/220-230 V, 50/60 Hz	
★1 ★3 Cooling capacity			kcal/h	12,100		13,300	
			Btu/h	48,100		52,900	
			kW	14.1		15.5	
★2 ★3 Heating capacity			kcal/h	13,800		14,600	
			Btu/h	54,600		58,000	
			kW	16.0		17.0	
Power input	Cooling	50 Hz	kW	0.168		0.181	
		60 Hz	kW	0.168		0.181	
	Heating	50 Hz	kW	0.168		0.181	
		60 Hz	kW	0.168		0.181	
Casing / Colour				Sheet metal / White		Sheet metal / White	
Dimensions: (H×W×D)			mm	235×1,590×690		235×1,590×690	
Coil (Cross fin coil)	Rows × Stages × Fin pitch		mm	3×14×1.5 (φ7)		3×14×1.5 (φ7)	
	Face area		m²	0.398		0.398	
Fan	Model			EQDW01EDK		EQDW01EDK	
	Type			Sirocco fan		Sirocco fan	
	Motor output × Number of units		W	150×1		150×1	
	Airflow rate (H/M/L)		m³/min	34/26/20		36/27/20	
			l/s	567/433/333		600/450/333	
			cfm	1,200/918/706		1,271/953/706	
	Drive			Direct drive		Direct drive	
Temperature control			Microprocessor thermostat for cooling and heating		Microprocessor thermostat for cooling and heating		
Sound absorbing thermal insulation material			Glass wool		Glass wool		
Air filter			Resin net (with mold resistant)		Resin net (with mold resistant)		
Piping Connections	Liquid pipes		mm	φ9.5 (Flare connection)		φ9.5 (Flare connection)	
	Gas pipes		mm	φ15.9 (Flare connection)		φ15.9 (Flare connection)	
	Drain pipe		mm	VP20 (External dia. 26, Internal dia. 20)		VP20 (External dia. 26, Internal dia. 20)	
Mass			kg	41		41	
★4 Sound pressure level (H/M/L)			dB(A)	46/41/37		48/42/37	
Safety devices			Fuse, Thermal protector for fan motor		Fuse, Thermal protector for fan motor		
Refrigerant control			Electronic expansion valve		Electronic expansion valve		
Standard accessories			Operation manual, Installation manual, Drain hose, Paper pattern for installation, Clamp metal, Insulation for fitting, Clamps, Washers		Operation manual, Installation manual, Drain hose, Paper pattern for installation, Clamp metal, Insulation for fitting, Clamps, Washers		
Drawing No.	Specification			C: 3D121195B		C: 3D121195B	
	Sound level			C: 4D121497A		C: 4D121498B	

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 / 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 m in front of the unit and 1 m downward. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

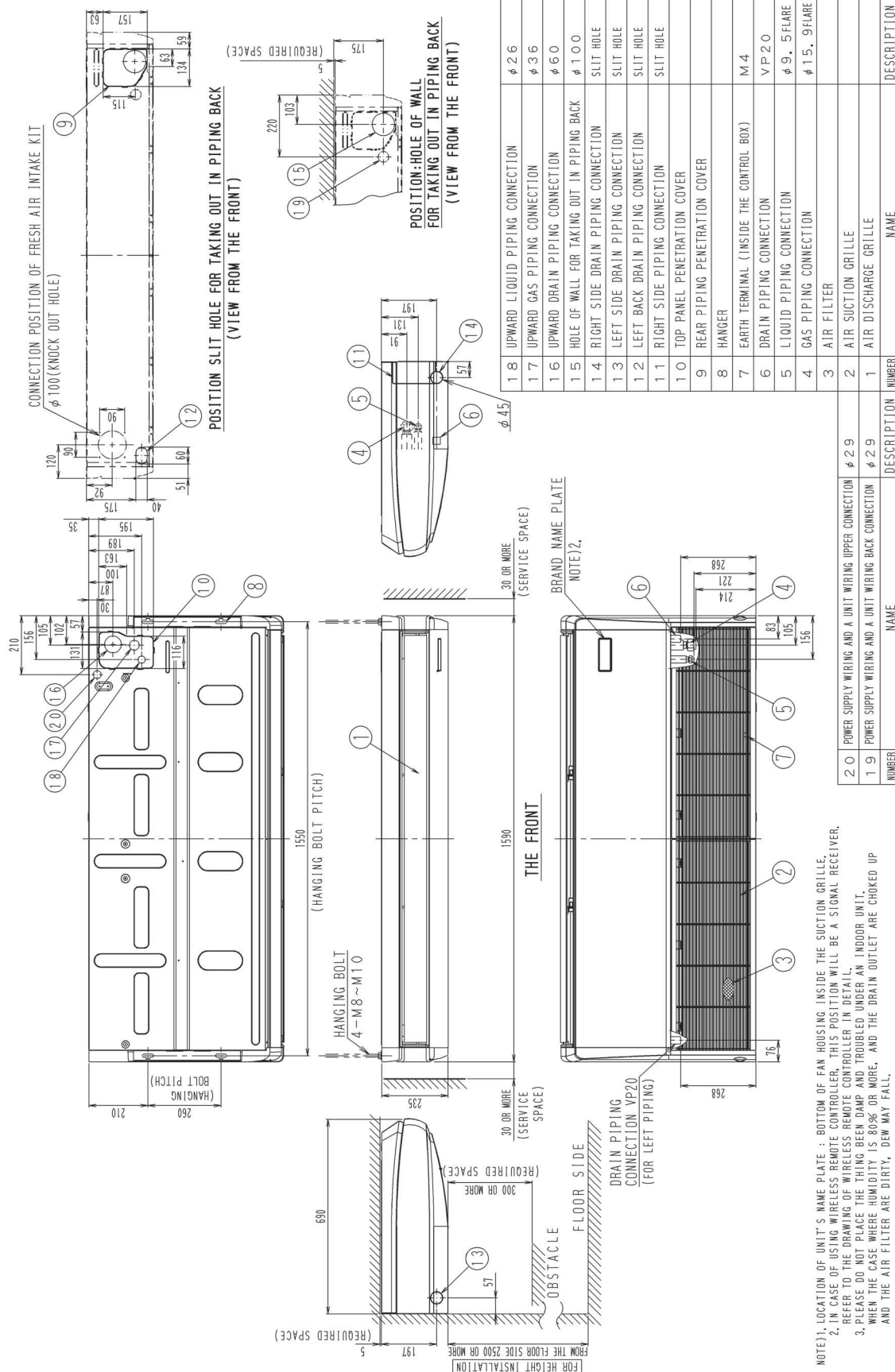
Conversion formulae

kcal/h=kW×860
 Btu/h=kW×3412
 cfm=m³/min×35.3
 l/s=m³/min×1000/60

3. Dimensions

FXHQ125AVM / FXHQ140AVM

Unit: mm

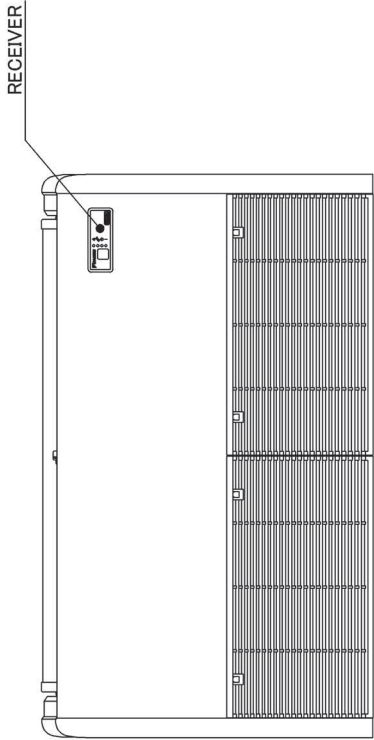


3D096240G

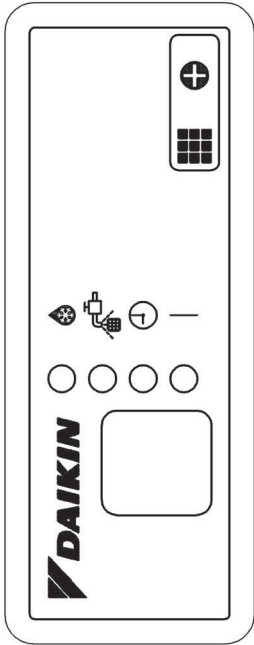
BRC7M53/56 — Wireless Remote Controller Kit (Option) —

Unit: mm

RECEIVER INSTALLATION PROCEDURE

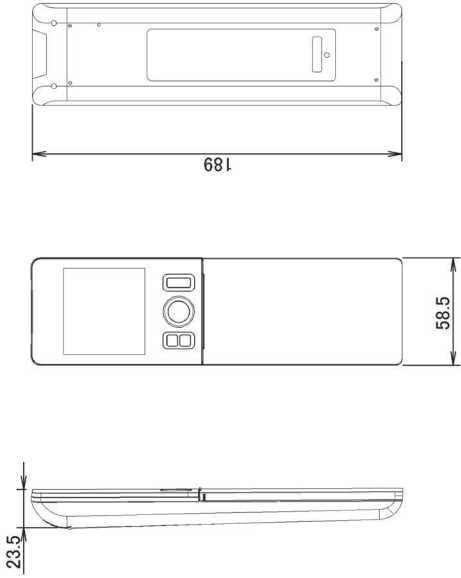


RECEIVER DETAIL

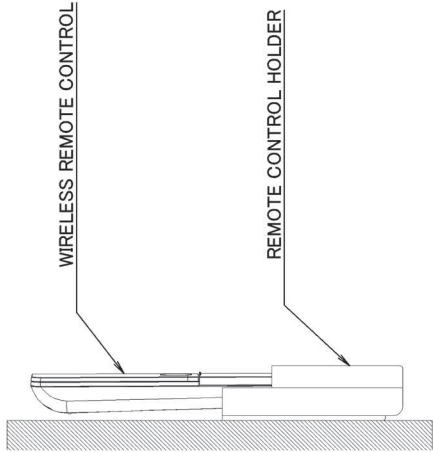


- Wireless Remote Controller Kit
BRC7M53
BRC7M56

REMOTE CONTROLLER DIMENSIONS



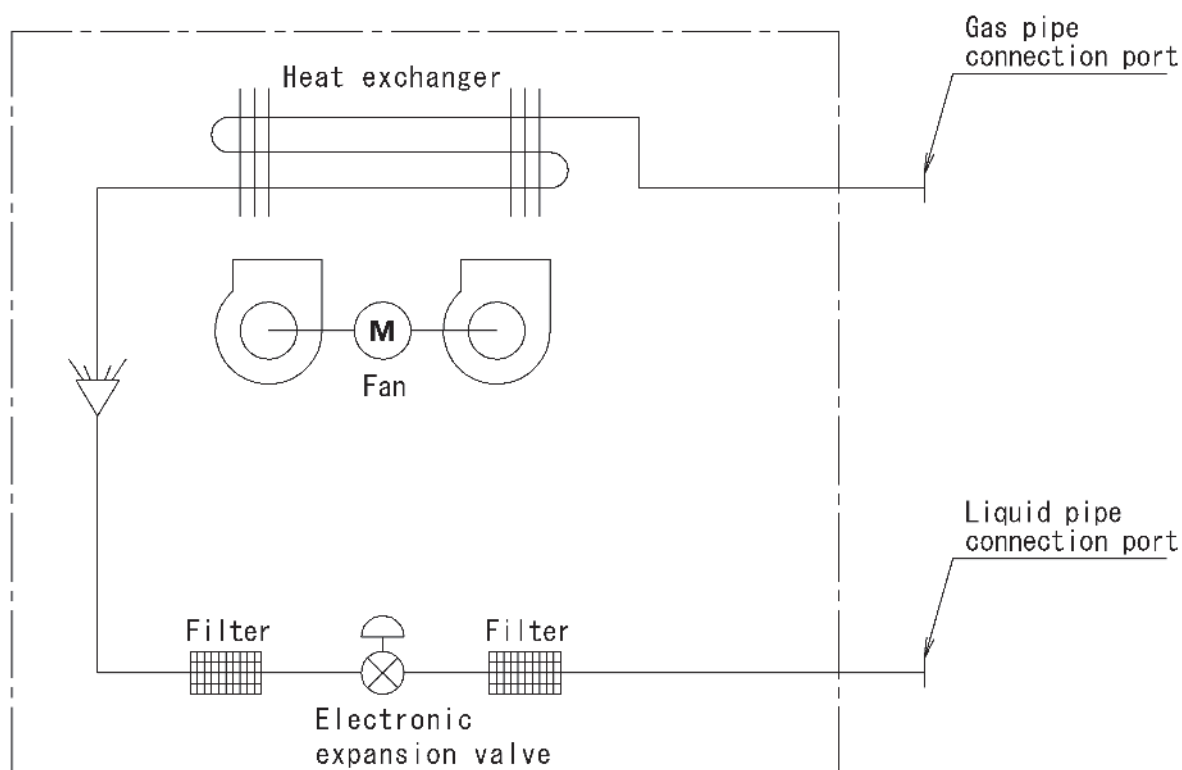
REMOTE CONTROLLER HOLDER
INSTALLATION PROCEDURE
<INSTALLATION TO WALL SURFACE>



3D121197

4. Piping Diagrams

FXHQ125AVM / FXHQ140AVM



APPLICABLE MODEL

FXC, FXM, FXL, FXN
 FXH, FXK, FXS, FJSP
 CBXLS, FXSP, FXCP
 FZSP, FXNP, FJNP
 FHQ, FXA, FXMQ, FBQ
 FXAQ, FXSP~BA, FAQ, FCQ
 FZSP~BA (N), FS SP~BA,
 FQSP~BAN, FXUQ, FZCP, FZAP
 FXSQ~PV2S, FXSQ~T, FXSP~CA (N)
 FZSP~CA (N), FQSP~CAN
 FS SP~CA, FXSFP~AA, FSSFP~AA

4D034245R

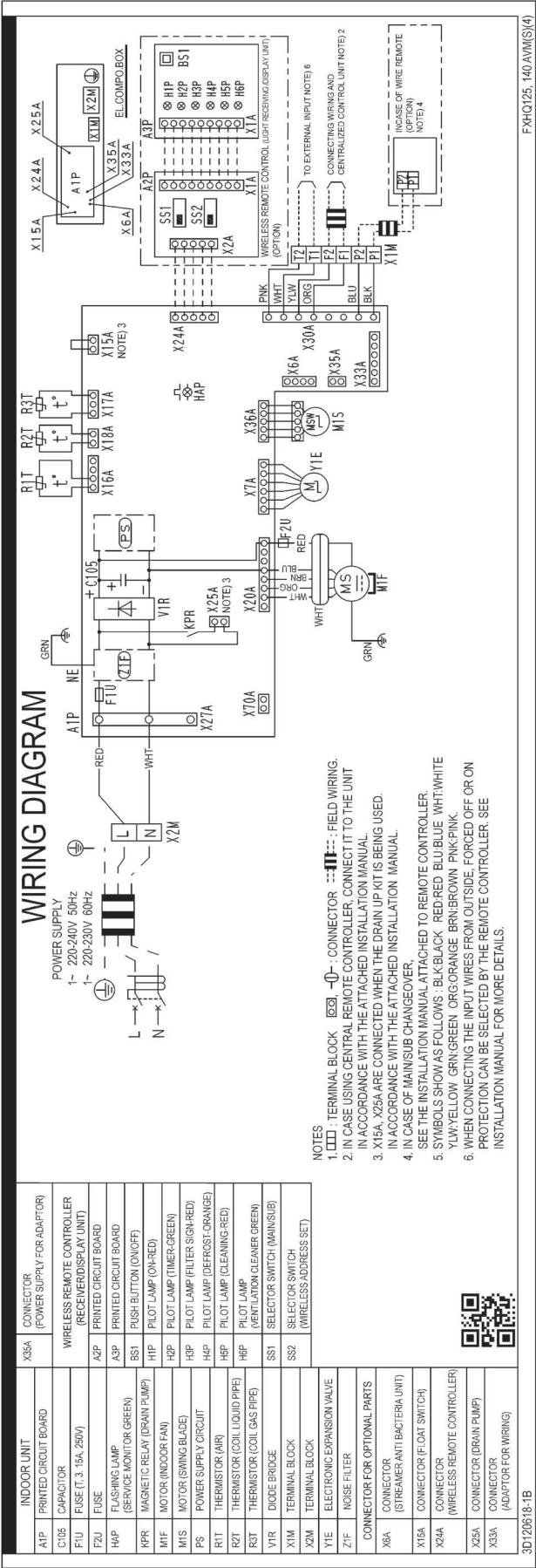
■ Refrigerant pipe connection port diameters

Unit: mm

Model	Gas	Liquid
FXHQ125AVM / FXHQ140AVM	φ15.9	φ9.5

5. Wiring Diagrams

FXHQ125AVM / FXHQ140AVM



6. Electric Characteristics

FXHQ125AVM / FXHQ140AVM

Units				Power supply		IFM		Input(W)	
Model	Hz	Volts	Voltage range	MCA	MFA	KW	FLA	Cooling	Heating
FXHQ125AVM(S) (4)	50	220-240	MAX. 264 Min. 198	1.4	15	0.150	1.0	168	168
FXHQ140AVM(S) (4)								181	181
FXHQ125AVM(S) (4)	60	220-230	MAX. 253 Min. 198	1.4	15	0.150	1.0	168	168
FXHQ140AVM(S) (4)								181	181

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 :

1. Voltage range

Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits,

2. Maximum allowable voltage unbalance between phases is 2%.

3. MCA/MFA

$$MCA = 1.25 \times FLA$$

$$MFA \leq 4 \times FLA$$

(Next lower standard fuse rating, Min.15A)

4. Select wire size based on the MCA.

5. Instead of fuse, use Circuit Breaker.

7. Safety Devices Setting

Model		FXHQ125AVM	FXHQ140AVM
Fuse		250 V, 3.15 A	250 V, 3.15 A
Fan motor thermal fuse	°C	DC 500 V, 4 A	DC 500 V, 4 A
Fan motor thermal protector	°C	—	—

C: 4D121708

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
FXHQ125AVM	125	12.4	10.3	13.2	10.8	13.9	11.0	14.1	10.2	14.3	10.1	14.6	9.8	14.9	9.4
FXHQ140AVM	140	13.7	11.3	14.6	11.8	15.2	12.0	15.5	11.2	15.7	11.0	16.0	10.7	16.4	10.3

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
FXHQ125AVM	125	9.5	7.8	11.4	9.0	13.2	10.0	14.1	10.2	14.3	10.1	14.6	9.8	15.0	9.5
FXHQ140AVM	140	10.5	8.5	12.5	9.8	14.5	10.9	15.5	11.2	15.7	11.0	16.1	10.8	16.5	10.4

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

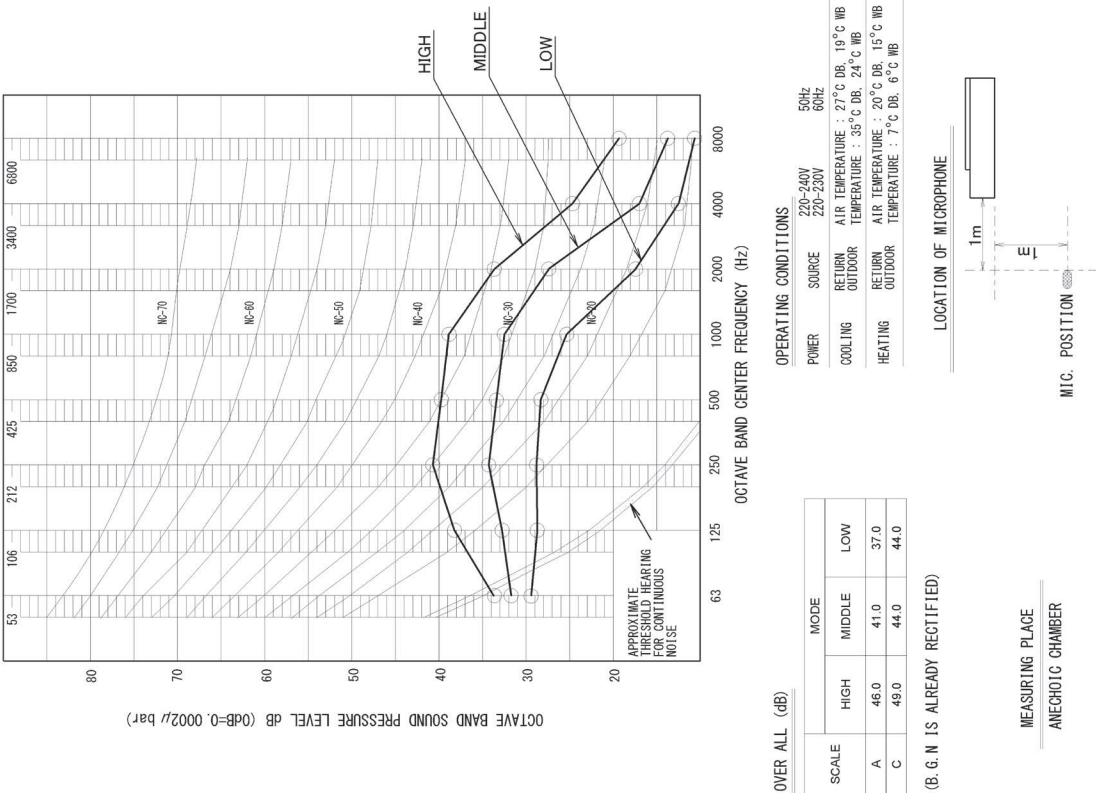
Model	Capacity indication	Indoor air temp.					
		16°CDB	18°CDB	20°CDB	21°CDB	22°CDB	24°CDB
		kW	kW	kW	kW	kW	kW
FXHQ125AVM	125	16.8	16.8	16.0	15.5	15.0	13.9
FXHQ140AVM	140	17.9	17.9	17.0	16.4	15.9	14.8

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.

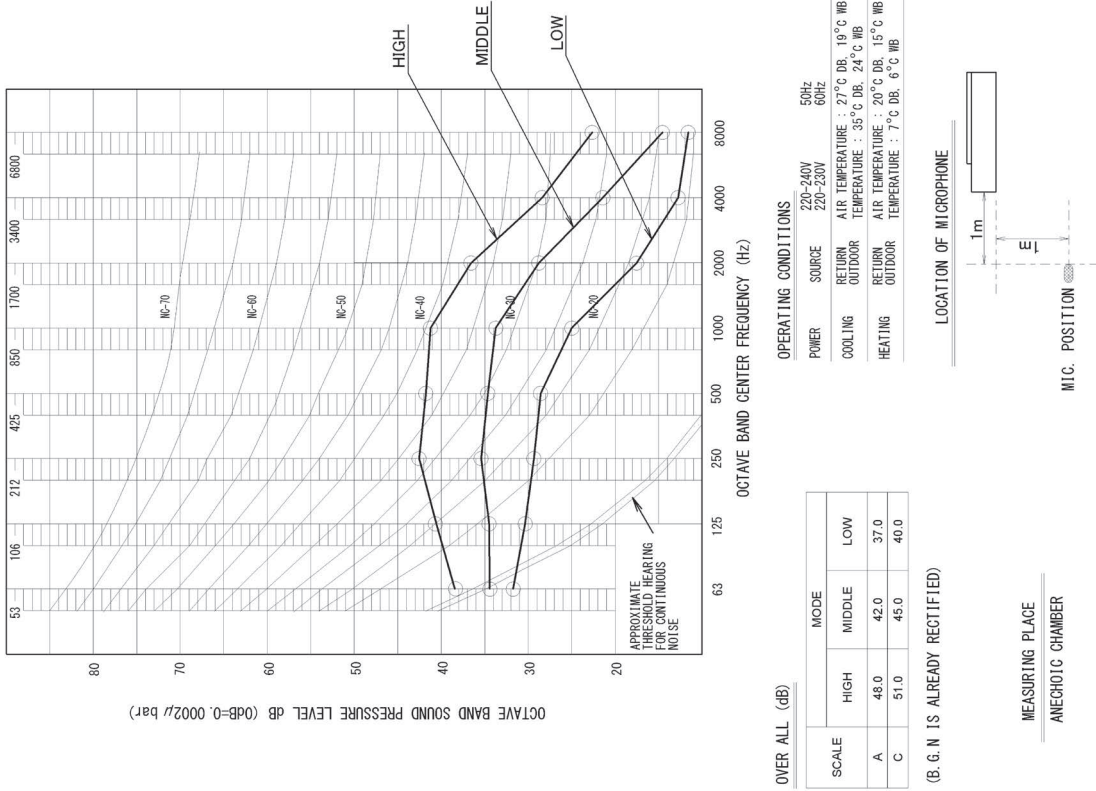
9. Sound Levels

FXHQ125AVM



4D121497A

FXHQ140AVM



4D121498B