Air Conditioners

Technical Data

Floorstanding unit

EEDEN12-100

FVQ-C

TABLE OF CONTENTS

FVQ-C

1 Features

- Seasonal efficiency, optimized for all seasons.
- Seasonal efficiency gives an indication on how efficient an air conditioner operates over an entire heating or cooling season.
- Can be installed in both new and existing buildings
- Ideal solution for shops, restaurants or offices without false ceilings
- Very efficient for use in rooms with high ceilings
- Better air flow distribution is achieved via individual blow: up and down, swing mechanism or air volume control (class 71 & 100)
- Compact design
- No optional adapter needed for DIII-connection: standard plug and play connection with centralised control systems, intelligent touch controller, intelligent manager, ...
- Home leave operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy

2 Specifications

2-1 Technical Specifications					FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB
Power input	Cooling	Nom.		kW	0.117	0.238		0.276
	Heating	Nom.		kW	0.117	0.238		0.276
Casing	Colour				Fresh White			
Dimensions	Unit	Height/Width/Depth		mm	1,850/600/270	1,850/600/350		
	Packed unit	Height/Width/Depth		mm	1,996/732/389	1,996/732/469		
Weight	Unit			kg	39	47		
	Packed unit			kg	61	70		
Heat exchanger	Inside length			mm	476			
	Rows	Quantity			2	3		
	Fin pitch			mm	1.75			
	Passes	Quantity			6	10	11	
	Face area			m²	0.40	0.22		
	Stages	Quantity			40	22		
	Empty tubeplate hole	Quantity			0	14	4	
	Fin	Type			Cross fin coil (multi louver fins and Hi-XSS tubes)			
Heat exchanger 2	Rows	Quantity			-	3		
	Fin pitch			mm	-	1.75		
	Face area			m²	-	0.22		
	Stages	Quantity			-	22		
Fan	Type				Sirocco fan			
	Quantity				1			
	Air flow rate	Cooling	High	m³/min	18	28		30
			Nom.	m³/min	16	25	26	28
			Low	m³/min	14	22	24	26
		Heating	High	m³/min	18	28		30
			Nom.	m³/min	16	25	26	28
			Low	m³/min	14	22	24	26
Fan motor	Model				QS33A1AM			
	Speed	Steps			3			
	Output	High		W	64	152		
Sound power level	Cooling	High/Nom./Low		dBA	55/53/50	62/59/56	63/60/58	65/63/60
	Heating	High/Nom./Low		dBA	55/53/50	62/59/56	63/60/58	65/63/60
Sound pressure level	Cooling	High/Nom./Low		dBA	43/41/38	50/47/44	51/48/46	53/51/48
	Heating	Super high/High/Nom./Low		dBA	-/43/41/38	-/50/47/44	-/51/48/46	-/53/51/48
Refrigerant	Type				R-410A			
Piping connections	Liquid	Type/OD		mm	Flare connection/9.52			
	Gas	Type/OD		mm	Flare connection/15.9			
	Drain				I.D. 20/O.D. 26			
	Heat insulation				Foamed polystyrene / Foamed polyethylene			

Standard Accessories : Remote control wiring;

Standard Accessories : Dew proof material;

Standard Accessories : Installation pattern;

Standard Accessories : Screws;

Standard Accessories : Clamps;

Standard Accessories : Cover;

Standard Accessories : Insulation for fitting;

Standard Accessories : Bush;

Standard Accessories : Hole protection rubber;

Standard Accessories : Bracket for installation;

Standard Accessories : Installation manual;

Standard Accessories : Operation manual;

2 Specifications

2-2 Electrical Specifications			FVQ71CVEB	FVQ100CVEB	FVQ125CVEB	FVQ140CVEB
Power supply	Phase		1~			
	Frequency	Hz	50/60			
	Voltage	V	220-240/220			
Current - 60Hz	Nominal running current	A	-			

3 Safety device settings

3 - 1 Safety Device Settings

FVQ-CVEB

Safety devices		71	100	125	140
FVQ~CVEB	Fuse	–	–	–	–
	Fan motor thermal fuse (°C)	–	–	–	–
	Fan motor thermal protector (°C)	–	–	–	–

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4 Options

4 - 1 Options

FVQ71-100-125-140CVEB

Name of option \ Model name	FVQ71~100~125~140CVEB
Replacement long-life filter	KAFJ95L160
Central remote controller	DCS302CA51
Unified ON/OFF controller	DCS301BA51
Schedule timer	DST301BA51
I-touch controller	DCS601C51
Remote controller	BRC1E52A7 BRC1E51A7 BRC1D528
Adapter for wiring ※1	KRP1BA57
Wiring adapter for electrical appendices (2)	KRP4AA52
Installation box for adapter PCB	KRP4AA95

Note) ※1; Installation box for adaptor PCB (KRP4AA95) is necessary.

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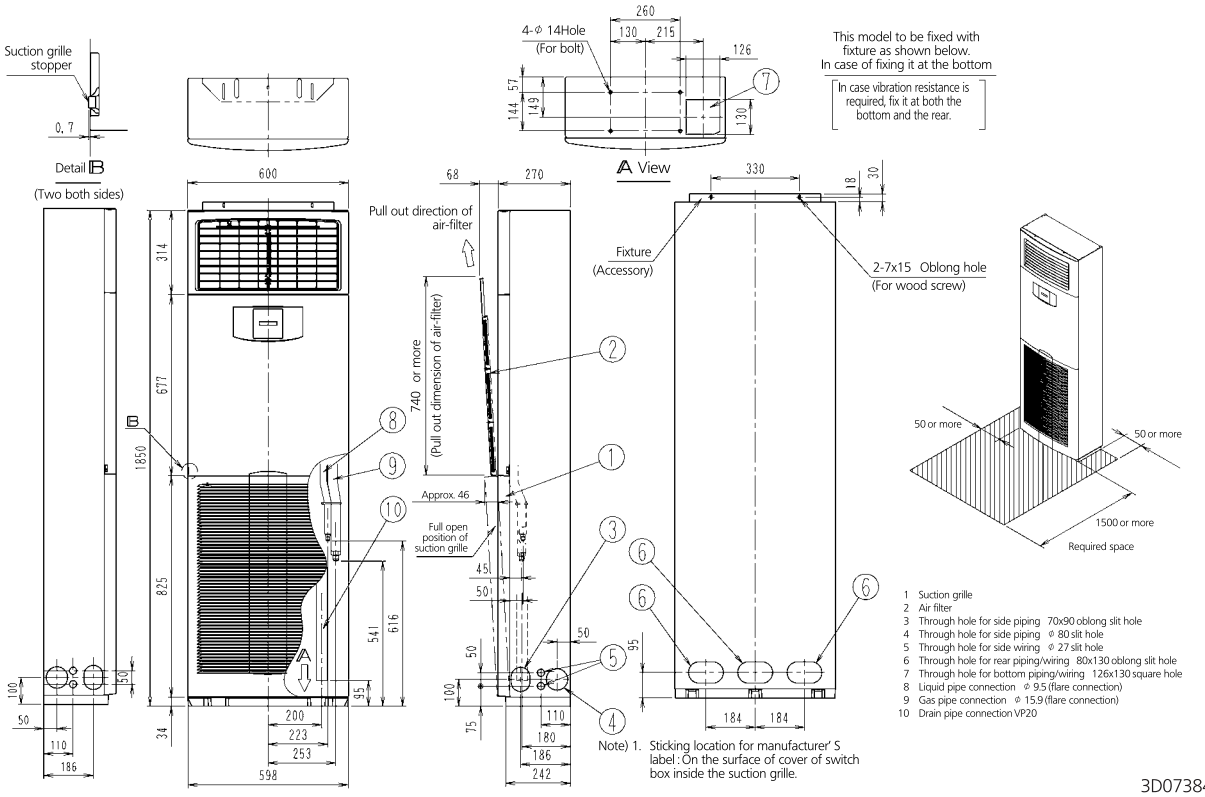
5 Dimensional drawings

5 - 1 Dimensional Drawings

FVQ71C



1 Suction grille
2 Air filter
3 Through hole for side piping 70x90 oblong slit hole
4 Through hole for side piping φ 80 slit hole
5 Through hole for side wiring φ 27 slit hole
6 Through hole for rear piping/wiring 80x130 oblong slit hole
7 Through hole for bottom piping/wiring 126x130 square hole
8 Liquid pipe connection φ 9.5 (flare connection)
9 Gas pipe connection φ 15.9 (flare connection)
10 Drain pipe connection VP20

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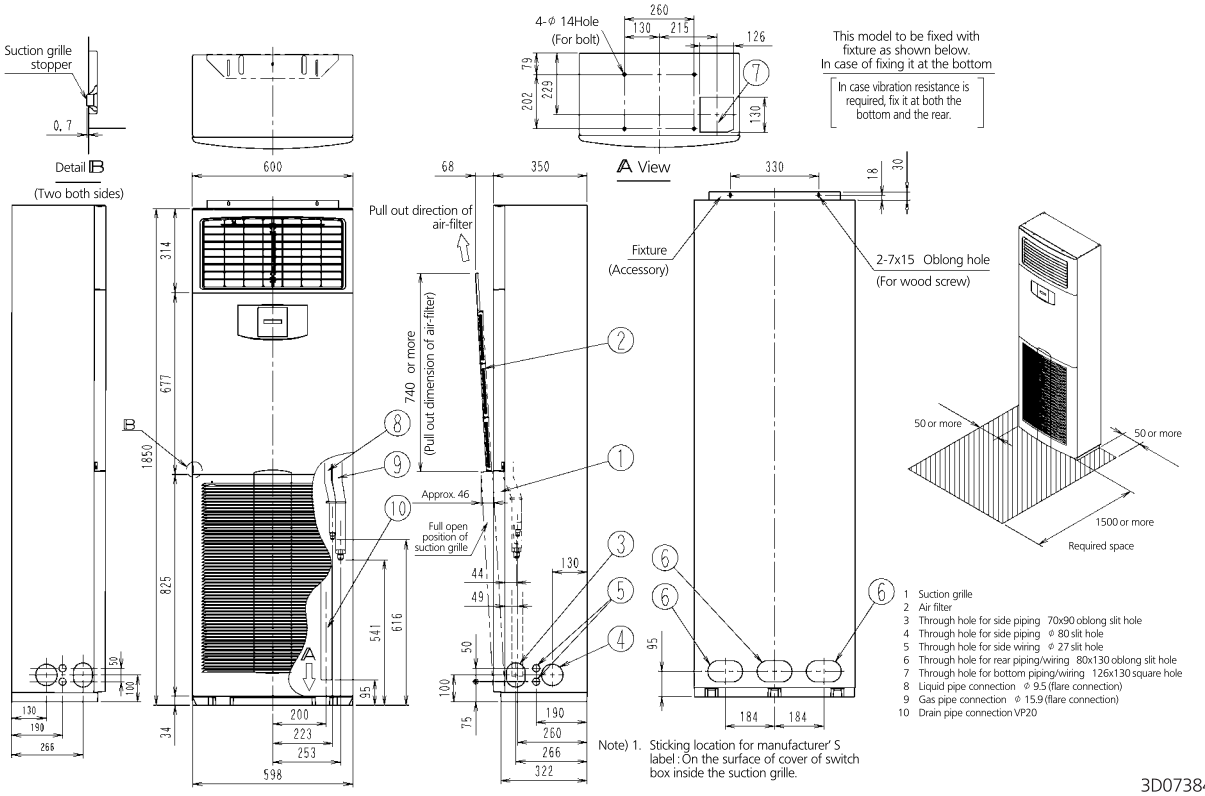
FVQ100-125-140C



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9 Gas pipe connection φ 15.9 (flare connection)
10 Drain pipe connection VP20

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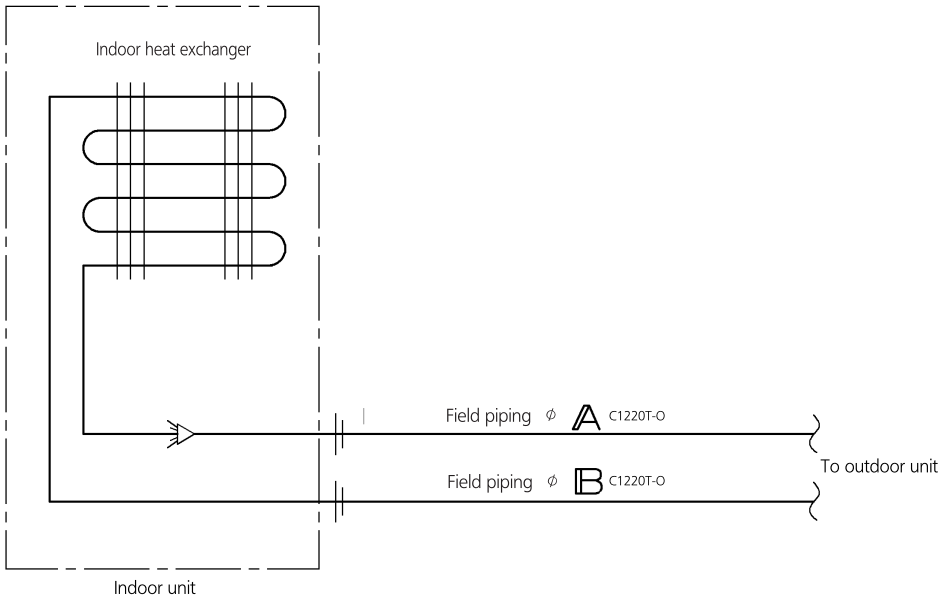
6 Piping diagrams

6 - 1 Piping Diagrams

FVQ-CVEB



Model	A	B
FVQ71, 100, 125, 140CVEB	9.5	15.9

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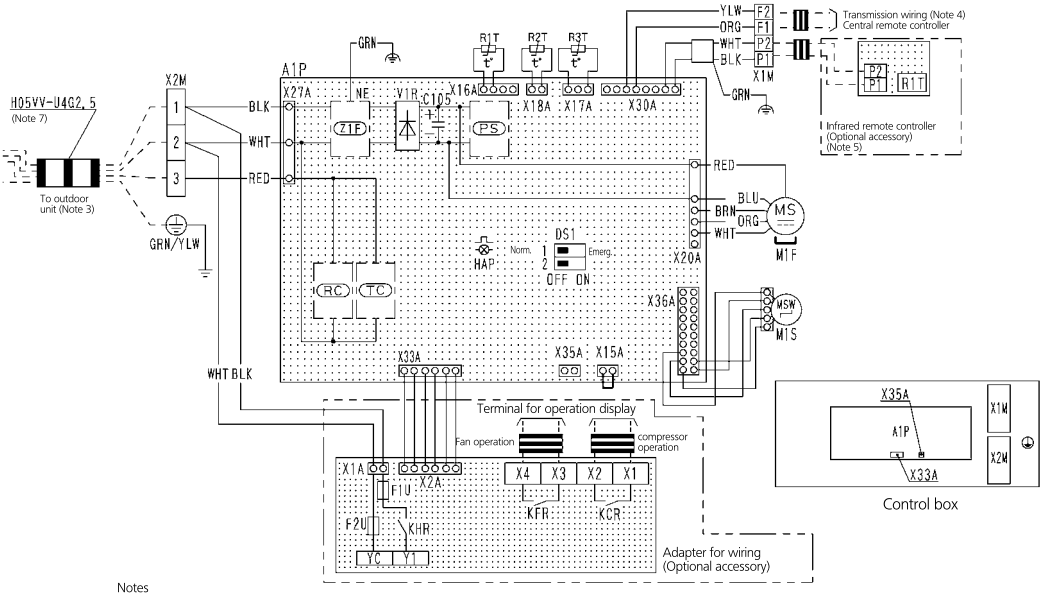
7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FVQ-CVEB

Indoor unit	
A1P	Printed circuit board
C10S	Capacitor
HAP	Flashing lamp (service monitor-green)
M1F	Motor (indoor fan)
M1S	Motor (swing flap)
R1T	Thermistor (air)
R2T-R3T	Thermistor (coil)
DS1	Dipswitch on PCB (emergency)
V1R	Diode bridge
X1M	Terminal block (Remote controller)
X2M	Terminal block (Transmission wiring)
Z1F	Noise filter
PS	Switching power supply
	Signal receiver circuit
	Signal transmission circuit
Wired remote controller	
R1T	Thermistor (air)
Connector for optional parts	
X33A	Connector (Adapter for wiring)
X35A	Connector (Power supply for adapter)
Adapter for wiring	
F1U F2U	Fuse (Ⓔ, 5A, 250V)
KCR	Magnetic relay
KFR	Magnetic relay
KHR	Magnetic relay



Notes

1. ▭▭▭ : Terminal block ⊠ :Connector ⊤ : Short circuit connector
2. ⊣▮▮⊢: Field wiring
3. For the detail, see wiring diagram attached to outdoor unit.
4. In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
5. In case of main/sub changeover, see the installation manual attached to remote controller.
6. Symbols shows as follows: BLK:Black RED:Red BLU:Blue WHT:White PNK:Pink YLW:Yellow GRY:Gray GRN:Green ORG:Orange BRN:Brown
7. Shows only in case of protected pipes, use HO7RN-F in case of no protection.

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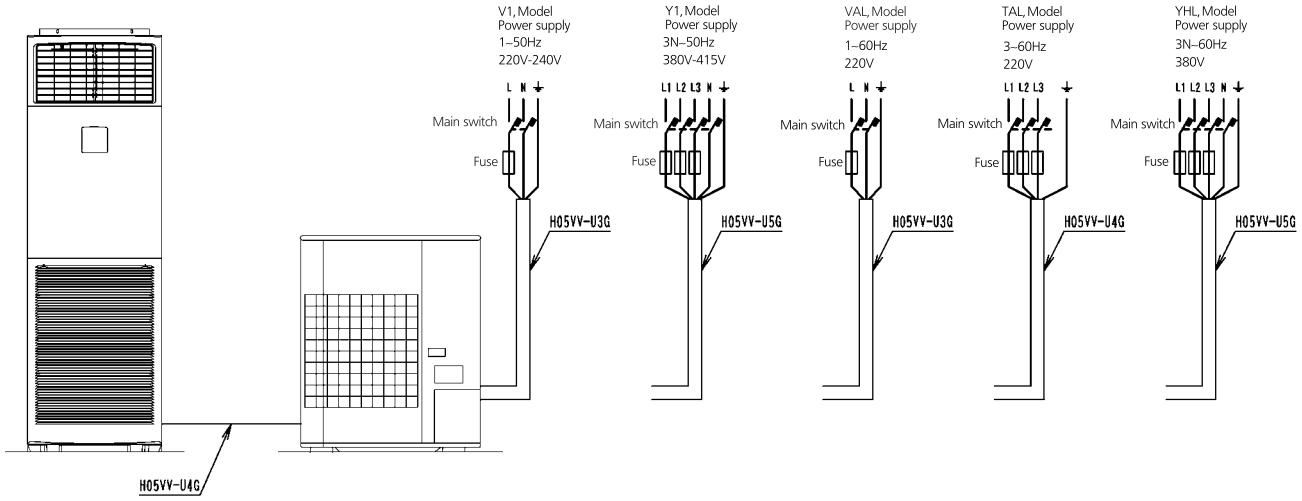
8 External connection diagrams

8 - 1 External Connection Diagrams

FVQ-CVEB



NOTES

1 ——— Line voltage wiring
——— Control circuit wiring
2 All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
3 Use copper conductor only.
4 As for details, see wiring diagrams.
5 Install fuse and mainswitch for safety.
6 All field wiring and components must be provided by a licensed electrician.
7 Unit shall be grounded in compliance with the applicable local and national codes
8 Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
9 Never share a common power source for both indoor and outdoor units.

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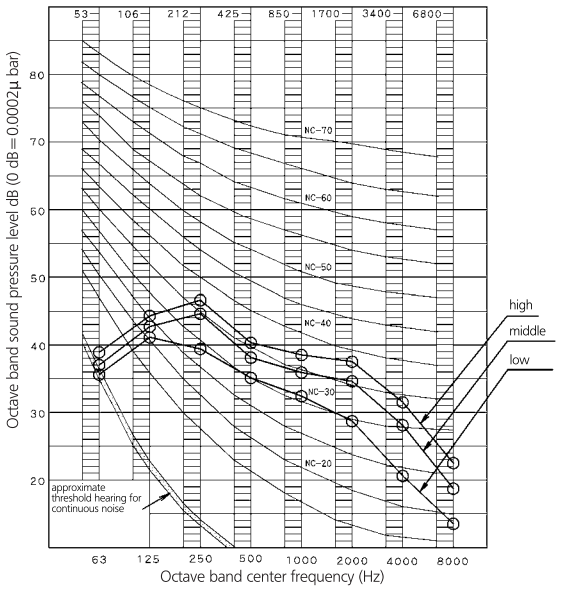
9 Sound data

9 - 1 Sound Pressure Spectrum

FVQ71C



NOTES

1 Overall (dB)

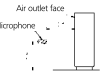
Scale	230V		
	high	middle	low
A	43	41	38
C	48	46	43

(B,G,N is already rectified)

Power level (dB)

230V		
high	middle	low
55	53	50

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 230V 50Hz
5 Cooling: Return air temperature: 27°C DB, 19°C WB
Outdoor temperature: 35°C DB, 24°C WB
6 Heating: Return air temperature: 20°C DB, 15°C WB
Outdoor temperature: 7°C DB, 6°C WB
230V
7 Location of microphone



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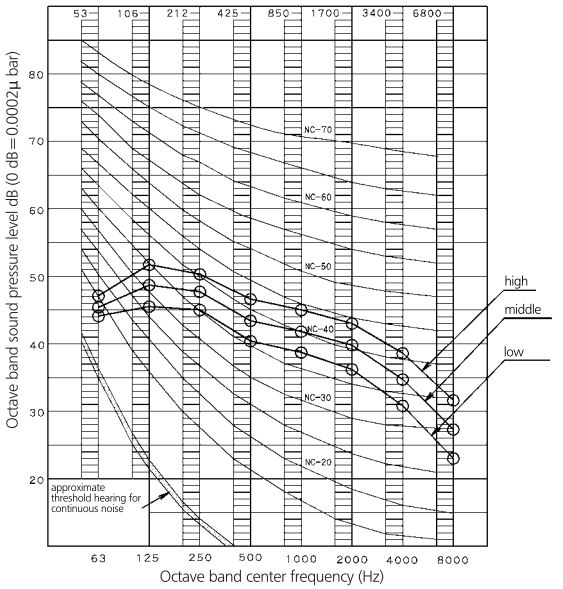
FVQ100C



NOTES

1 Overall (dB)

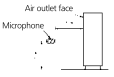
Scale	230V		
	high	middle	low
A	50	47	44
C	55	52	50

(B,G,N is already rectified)

Power level (dB)

230V		
high	middle	low
62	59	56

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 230V 50Hz
5 Cooling: Return air temperature: 27°C DB, 19°C WB
Outdoor temperature: 35°C DB, 24°C WB
6 Heating: Return air temperature: 20°C DB, 15°C WB
Outdoor temperature: 7°C DB, 6°C WB
230V
7 Location of microphone



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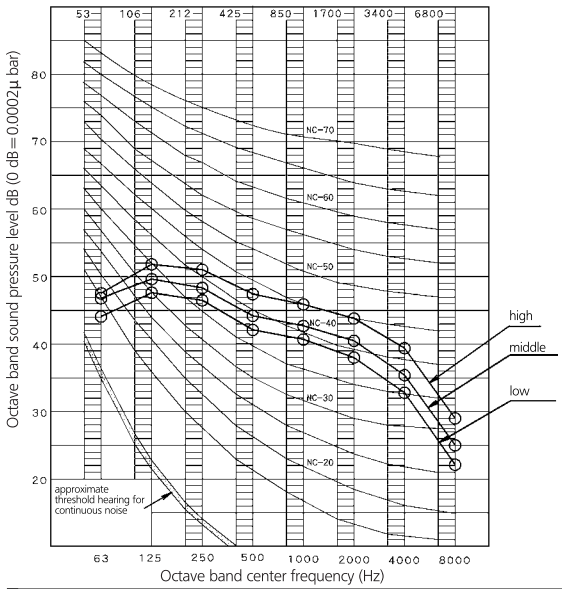
FVQ125C



NOTES

1 Overall (dB)

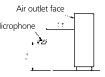
Scale	230V		
	high	middle	low
A	51	48	46
C	56	53	52

(B,G,N is already rectified)

Power level (dB)

230V		
high	middle	low
63	60	58

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 230V 50Hz
5 Cooling: Return air temperature: 27°C DB, 19°C WB
Outdoor temperature: 35°C DB, 24°C WB
6 Heating: Return air temperature: 20°C DB, 15°C WB
Outdoor temperature: 7°C DB, 6°C WB
230V
7 Location of microphone



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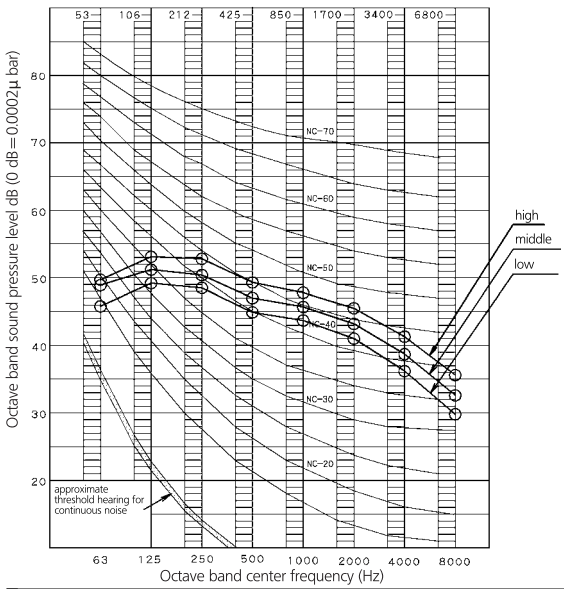
FVQ140C



NOTES

1 Overall (dB)

Scale	230V		
	high	middle	low
A	53	51	48
C	58	56	54

(B,G,N is already rectified)

Power level (dB)

230V		
high	middle	low
65	63	60

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 230V 50Hz
5 Cooling: Return air temperature: 27°C DB, 19°C WB
Outdoor temperature: 35°C DB, 24°C WB
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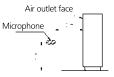
Outdoor temperature: 7°C DB, 6°C WB
230V
7 Location of microphone



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