



Air Conditioning Technical Data

4-way blow ceiling suspended unit



EEEN14-100

FUQ-C

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FUQ-C

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1 Features

- Ideal solution for commercial spaces with no or narrow false ceilings
- Low energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Stylish unit blends easily with any interior, as the flaps close entirely when not in operation
- Improved comfort thanks to automatic air flow adjustment to required load
- Individual flap control: possibility to adapt the room layout by fixing the position of each flap individually
- Can be installed in both new and existing buildings
- Same outlook for all models (unified dimensions)
- Auto swing function ensures efficient air and temperature distribution
- Air can be discharged in 5 different angles between 0 and 60°
- Possibility to shut 1 or 2 flaps for easy installation in corners
- Air flow distribution for ceiling heights up to 3.5m without capacity loss
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.



Inverter



Home leave operation



Fan only



Draught prevention



Auto cooling-heating changeover



Individual flap control



Vertical auto swing



Fan speed steps



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Drain pump kit



Twin/triple/double twin application

2 Specifications

2-1 Technical Specifications					FUQ71C		FUQ100C		FUQ125C			
Power input - 50Hz	Cooling		Nom.		kW		0.109		0.163		0.185	
	Heating		Nom.		kW		0.103		0.158		0.180	
Casing	Colour					Fresh White						
	Material					Resin						
Dimensions	Unit		Height/Width/Depth		mm		198/950/950					
	Packed unit		Height/Width/Depth		mm		295/1,026/1,016					
Weight	Unit				kg		25		26			
	Packed unit				kg		36		38			
Packing	Material					Carton / OSB board						
	Weight				kg		8.3					
Heat exchanger	Inside length				mm		2,413		2,360			
	Length				mm		-		2,413			
	Outside length				mm		2,467					
	Rows		Quantity			2		3				
	Fin pitch				mm		1.2					
	Face area				m²		0.3380		0.3300			
	Stages		Quantity			10						
	Empty tubeplate hole		Quantity			0						
	Tube type					Hi-XA						
	Tube material					Copper						
	Tube diameter				mm		5.0					
	Fin		Type			Multi slit fin						
			Treatment			Anti Corrosion Hydrophilic						
	Fan	Type					Turbo fan					
Quantity					1							
Air flow rate		Cooling	High	m³/min		23		31		32.5		
				cfm		812		1,095		1,148		
			Nom.	m³/min		19.5		25.5		26.5		
				cfm		689		901		936		
			Low	m³/min		16		20		20.5		
				cfm		565		706		724		
		Heating	High	m³/min		23		31		32.5		
				cfm		812		1,095		1,148		
			Nom.	m³/min		19.5		25.5		26.5		
				cfm		689		901		936		
			Low	m³/min		16		20		20.5		
				cfm		565		706		724		
Fan motor	Quantity					1						
	Model					ARW5203DK		EHDS10DDK				
	Index of Protection					20						
	Insulation grade					Class "E"						
	Poles					8						
	Drive					Direct drive						
	Speed	Steps				3						
		Cooling	High/ Mediu m/Low	rpm	608/528/448		804/680/555		840/697/555			
					608/528/448		804/680/555		840/697/555			
	Output		High		W		46		106			
	Phase x Voltage				V		DC280V					
	Full load amps (FLA)	Cooling		A		0.7		1.0		1.1		
Heating		A		0.7		1.0		1.1				
Sound power level	Cooling		/		dBA		59		64		65	
	Heating		/		dBA		59		64		65	

2 Specifications

2-1 Technical Specifications				FUQ71C	FUQ100C	FUQ125C
Sound pressure level	Cooling	High/Nom./Low	dBA	41/38/35	46/42/39	47/43/40
	Heating	Super high/High/ Nom./Low	dBA	-/41/38/35	-/46/42/39	-/47/43/40
Refrigerant	Type			R-410A		
Piping connections	Sound absorbing insulation			Not needed		
	Liquid	Type/OD	mm	C1220T (Flare connection)/9.52		
	Gas	Type/OD	mm	C1220T (Flare connection)/15.9		
	Drain			VP25 (OD Ø32.0)		
	Heat insulation			Needed		
Air direction control				Up and downwards		
Air filter	Type			Resin net with mold resistance		
	Quantity		pc	1		
Drain-up height			mm	600		

Standard Accessories : L-bent piping;
 Standard Accessories : Operation manual;
 Standard Accessories : Joint insulation & Sealing material;
 Standard Accessories : Drain hose;
 Standard Accessories : Declaration of conformity;
 Standard Accessories : Clamp metal;
 Standard Accessories : Elbow;
 Standard Accessories : Washer clamp;
 Standard Accessories : Blocking material;
 Standard Accessories : Screws;
 Standard Accessories : Installation manual;
 Standard Accessories : Clamps;
 Standard Accessories : Non woven fabric;
 Standard Accessories : Installation pattern;
 Standard Accessories : Washer for hanger bracket;

2-2 Electrical Specifications				FUQ71C	FUQ100C	FUQ125C
Power supply	Name			VE		
	Phase			1~		
	Frequency	Hz		50/60		
	Voltage	V		220-240/220		
Current - 50Hz	Maximum running current	A		0.9	1.3	1.4

3

Safety device settings

3 - 1

Safety Device Settings

FUQ-C

	Safety devices		71	100	125
FUQ~C	Fuse		---	---	---
	Fan motor thermal fuse	°C	---	---	---
	Fan motor thermal protector	°C	---	---	---

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4 Options

4 - 1 Options

FUQ-C

Name of option	Remark		FUQ~C		
			71	100	125
Sealing member of air discharge outlet			KDBHP49B140		
Decoration panel for air discharge			KDBTP49B140		
Replacement long-life filter			KAFP551K160		
Remote controller	Wired type		BRC1D528, BRC1E51A7, BRC1E52A7, BRC1E52B7		
	Infrared type	Heat pump use	BRC7CB58		
		Cooling only use	BRC7CB59		
Central remote controller			DCS302CA51		
Unified ON/OFF controller			DCS301BA51		
Schedule timer			DST301BA51		
Wiring adapter for electrical appendices			KRP4AA53 ...✕ 1		
Installation box for adapter PCB			KRP1BA97		
Remote sensor			KRCS01-4B		
Connector for forced on, forced off			EKROR05		
Electrical box with earth terminal (3 blocks)			KJB311AA		
Electrical box with earth terminal (2 blocks)			KJB212AA		

Note)

✕ 1: Installation box for adapter PCB (KRP1BA97) is necessary.

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5 Dimensional drawings

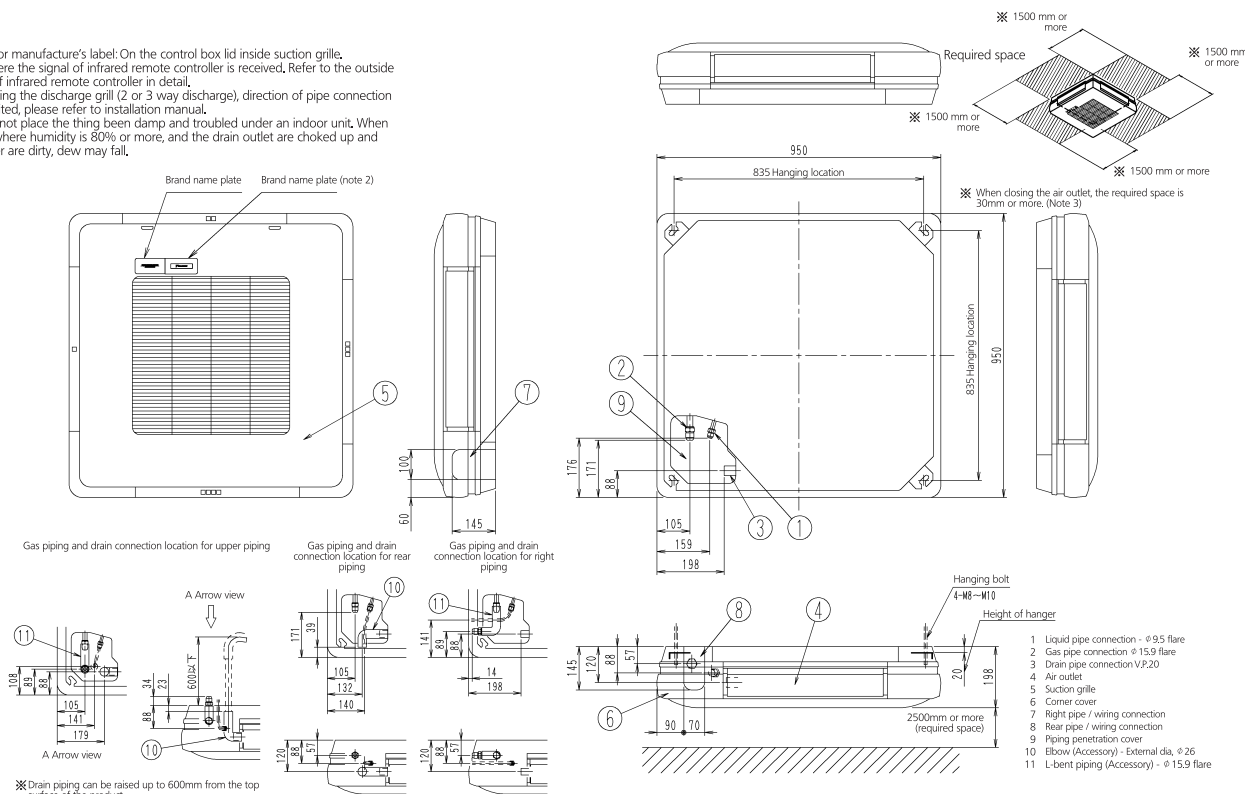
5 - 1 Dimensional Drawings

FUQ-C

Note:

1. Location for manufacture's label: On the control box lid inside suction grille.
2. This is where the signal of infrared remote controller is received. Refer to the outside drawing of infrared remote controller in detail.
3. When closing the discharge grill (2 or 3 way discharge), direction of pipe connection will be limited, please refer to installation manual.
4. Please do not place the thing been damp and troubled 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.

(Unit: mm)



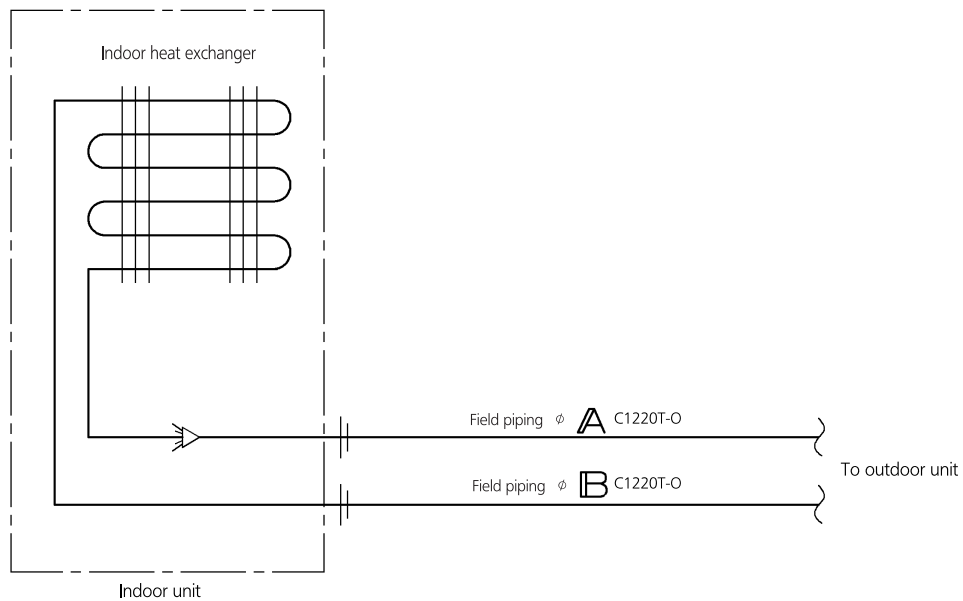
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6 Piping diagrams

6 - 1 Piping Diagrams

6

FUQ-C



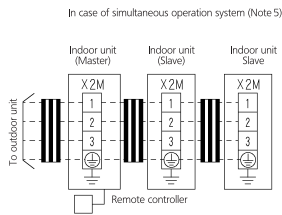
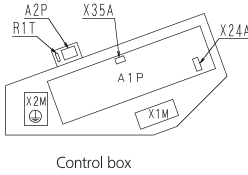
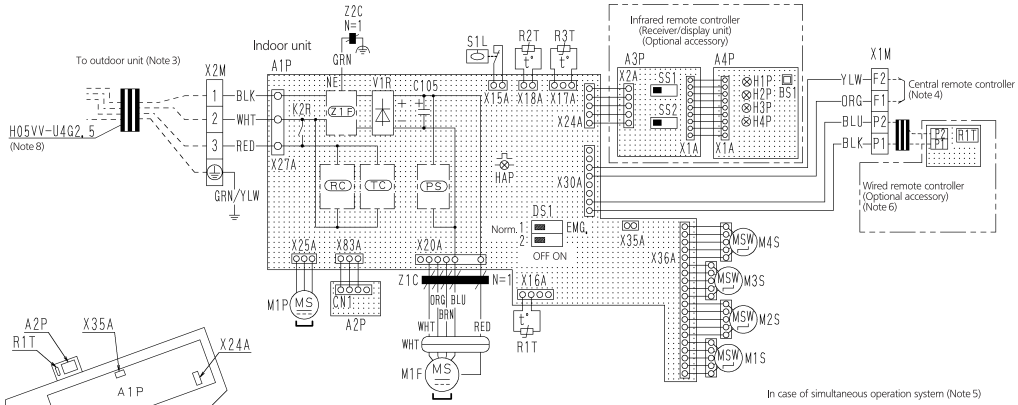
Model	A	B
FUQ71, 100, 125C	9.5	15.9

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7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FUQ-C



Indoor unit	
A1P	Printed circuit board
A2P	Printed circuit board
C105	Capacitor (MTR)
DS1	Diode switch on PCB
HAP	Flashing lamp (service monitor-green)
K2R	Magnetic relay
M1P	Motor (indoor fan)
M1P	Motor (drain pump)
M1S/M2S	Motor (swing blade)
R1T	Thermistor (air)
R1T/R2T	Thermistor (coil)
S1L	Reset switch
V1R	Diode bridge
X1M	Terminal block
X2M	Terminal block
Z1P	Noise filter
Z1C	Fan coil
Z2C	Fan coil
PS	Power supply circuit
RC	Signal receiver circuit
TC	Signal transmission circuit
Infrared remote controller (Receiver/display unit)	
A3P	Printed circuit board
A4P	Printed circuit board
BS1	Push button (power)
H1P	Flu lamp (power)
H2P	Flu lamp (power)
H3P	Flu lamp (power)
H4P	Flu lamp (power)
H5P	Flu lamp (power)
H6P	Flu lamp (power)
H7P	Flu lamp (power)
H8P	Flu lamp (power)
H9P	Flu lamp (power)
H10P	Flu lamp (power)
H11P	Flu lamp (power)
H12P	Flu lamp (power)
H13P	Flu lamp (power)
H14P	Flu lamp (power)
H15P	Flu lamp (power)
H16P	Flu lamp (power)
H17P	Flu lamp (power)
H18P	Flu lamp (power)
H19P	Flu lamp (power)
H20P	Flu lamp (power)
H21P	Flu lamp (power)
H22P	Flu lamp (power)
H23P	Flu lamp (power)
H24P	Flu lamp (power)
H25P	Flu lamp (power)
H26P	Flu lamp (power)
H27P	Flu lamp (power)
H28P	Flu lamp (power)
H29P	Flu lamp (power)
H30P	Flu lamp (power)
H31P	Flu lamp (power)
H32P	Flu lamp (power)
H33P	Flu lamp (power)
H34P	Flu lamp (power)
H35P	Flu lamp (power)
H36P	Flu lamp (power)
H37P	Flu lamp (power)
H38P	Flu lamp (power)
H39P	Flu lamp (power)
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H41P	Flu lamp (power)
H42P	Flu lamp (power)
H43P	Flu lamp (power)
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H46P	Flu lamp (power)
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H85P	Flu lamp (power)
H86P	Flu lamp (power)
H87P	Flu lamp (power)
H88P	Flu lamp (power)
H89P	Flu lamp (power)
H90P	Flu lamp (power)
H91P	Flu lamp (power)
H92P	Flu lamp (power)
H93P	Flu lamp (power)
H94P	Flu lamp (power)
H95P	Flu lamp (power)
H96P	Flu lamp (power)
H97P	Flu lamp (power)
H98P	Flu lamp (power)
H99P	Flu lamp (power)
H100P	Flu lamp (power)
Wired remote controller (Optional accessory)	
R1T	Thermistor (air)
Connector for optional parts	
X24A	Connector (Infrared remote controller)
X25A	Connector (Power supply for adapter)

Notes

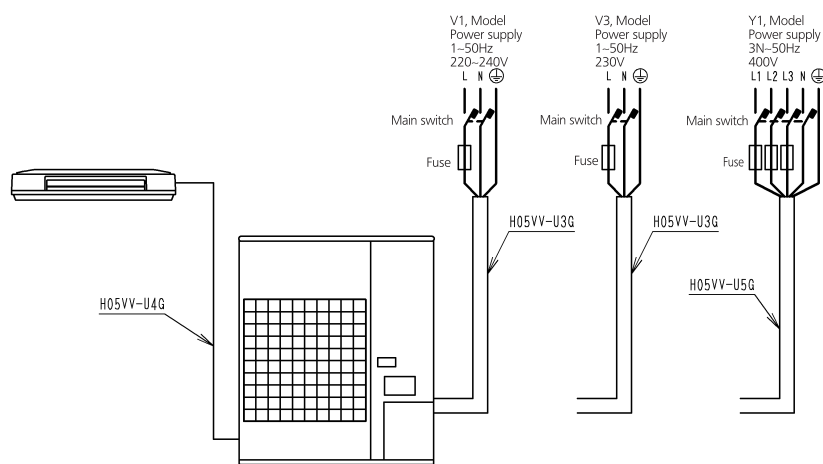
1. : Terminal block, : Connector, : Field wiring
2. In case of simultaneous operation indoor unit system, see the indoor unit wiring only.
3. For the detail, see wiring diagram attached to outdoor unit.
4. In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
5. In case of simultaneous operation system, connection quantity of the indoor units varies according to the connection outdoor unit, confirm technical guide and catalog, etc, before connecting.
6. In case of main/sub overcharge, see the installation manual attached to remote controller.
7. Symbols show as follows: BLK:Black RED:Red BLU:Blue WHT:White YLW:Yellow GRN:Green BRN:Brown.
8. 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

FUQ-C



NOTES

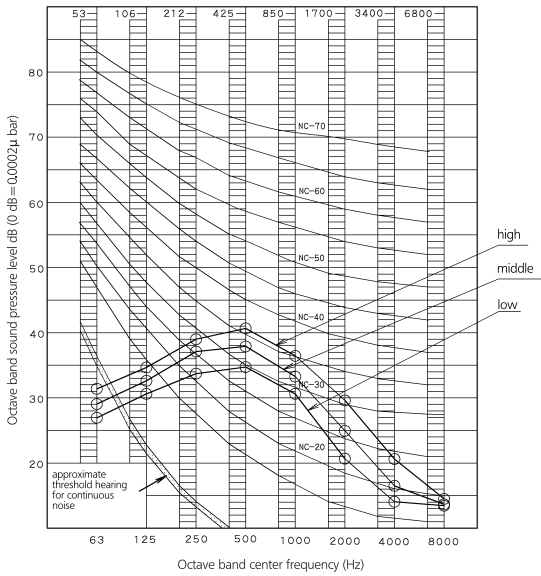
- 1 Line voltage wiring
 Control circuit wiring
- 2 All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
- 3 Use copper conductors only.
- 4 As for details, see wiring diagram.
- 5 Install fuse and main switch for safety.
- 6 All field wiring and components must be provided by a licensed electrician.
- 7 The 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 supply with other equipment.

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9 Sound data

9 - 1 Sound Pressure Spectrum

FUQ71C



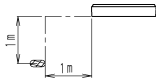
NOTES

- Overall (dB)

Scale	Mode		
	high	middle	low
A	41.0	38.0	35.0
C	44.6	42.1	39.1

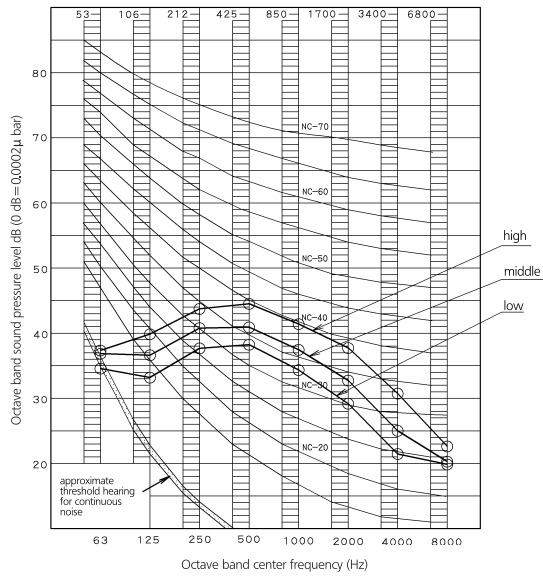
(B/C is already rectified)

Power level (dB)		
high	middle	low
58.0	56.0	53.0
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz
- Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
- Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone



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FUQ100C



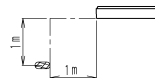
NOTES

- Overall (dB)

Scale	Mode		
	high	middle	low
A	46.0	42.0	39.0
C	49.3	46.1	43.1

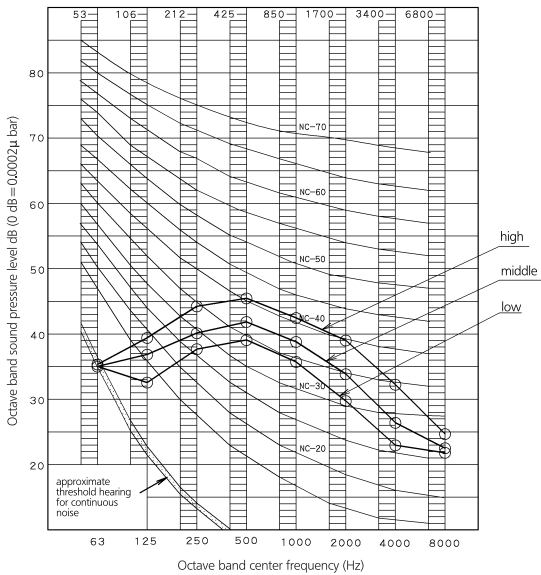
(B/C is already rectified)

Power level (dB)		
high	middle	low
64.0	60.0	55.0
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz
- Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
- Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone



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FUQ125C



NOTES

- Overall (dB)

Scale	Mode		
	high	middle	low
A	47.0	43.0	40.0
C	50.0	46.4	43.6

(B/C is already rectified)

Power level (dB)		
high	middle	low
65.0	61.0	56.0
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz
- Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
- Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone



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