



Air Conditioning Technical Data

4-way blow ceiling suspended unit



EEDEN15-100

FUQ-C

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1 Features

Unique Daikin unit for high rooms with no false ceilings nor free floor space

- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- Refurbishing the room? Flexibility to suit every room layout without changing the location of the unit! Via the wired remote controller you can easily control each flap individually and even close the flaps.
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating
- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- 5 different discharge angles between 0 and 60° can be programmed via the remote control
- Standard drain pump with 500mm lift increases flexibility and installation speed
- 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			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		m ²	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			
	Air filter	Type			Resin net with mold resistance		
Quantity		pc	1				
Fan	Type			Turbo fan			
	Quantity			1			
	Air flow rate	Cooling	High	m ³ /min	23	31	32.5
				cfm	812	1,095	1,148
			Nom.	m ³ /min	19.5	25.5	26.5
		Low	m ³ /min	cfm	689	901	936
				m ³ /min	16	20	20.5
			cfm	565	706	724	
	Heating	High	m ³ /min	23	31	32.5	
			cfm	812	1,095	1,148	
		Nom.	m ³ /min	19.5	25.5	26.5	
			cfm	689	901	936	
		Low	m ³ /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/ Medium/Low	rpm	608/528/448	804/680/555	840/697/555
				rpm	608/528/448	804/680/555	840/697/555
	Heating	High/ Medium/Low	rpm	608/528/448	804/680/555	840/697/555	
			rpm	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		

2 Specifications

2

2-1 Technical Specifications				FUQ71C	FUQ100C	FUQ125C
Sound power level	Cooling		dBA	59	64	65
	Heating		dBA	59	64	65
Sound pressure level	Cooling	High/Nom./Low	dBA	41/38/35	46/42/39	47/43/40
	Heating	High/Nom./Low	dBA	41/38/35	46/42/39	47/43/40
Control systems	Infrared remote control			BRC7C58		
	Wired remote control			BRC1D52 / BRC1E52A/B		
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		
Drain-up height			mm	600		

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

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

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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 control	Wired type		BRC1D528, BRC1E51A7, BRC1E52A7, BRC1E52B7, (BRC1E61)		
	Infrared type	Heat pump use	BRC7CB58		
		Cooling only use	BRC7CB59		
Simplified remote control (with operation mode selector button)			BRC2E52C7 (*3)		
Simplified remote control (without operation mode selector button)			BRC3E52C7 (*3)		
Central remote control			DCS302CA51, (DCS302CA61)		
Unified on/off control			DCS301BA51, (DCS301BA61)		
Schedule timer			DST301BA51, (DST301BA61)		
Wiring adapter for electrical appendices			KRP4AA53 (*1)		
Installation box for adapter PCB			KRP1BA97		
Remote sensor			KRCS01-4B		
Connector for forced on, forced off			EKR0R05		
Electrical box with earth terminal (3 blocks)			KJB311AA		
Electrical box with earth terminal (2 blocks)			KJB212AA		
Digital input adapter			BRP7A53 (*1) (*4)		

NOTE

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

*2 Kit name in () is for general overseas.

*3 Included languages are:
 Language pack 1: English, German, French, Dutch, Spanish, Italian and Portuguese.
 With PC cable EKPCAB3 in combination with the updater PC software, you can additionally change the language to:
 Language pack 2: English, Bulgarian, Croatian, Czech, Hungarian, Romanian and Slovenian.
 Language pack 3: English, Greek, Polish, Russian, Serbian, Slovak and Turkish.

*4 Only possible in combination with simplified remote control BRC2/3E52C7.

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5 Dimensional drawings

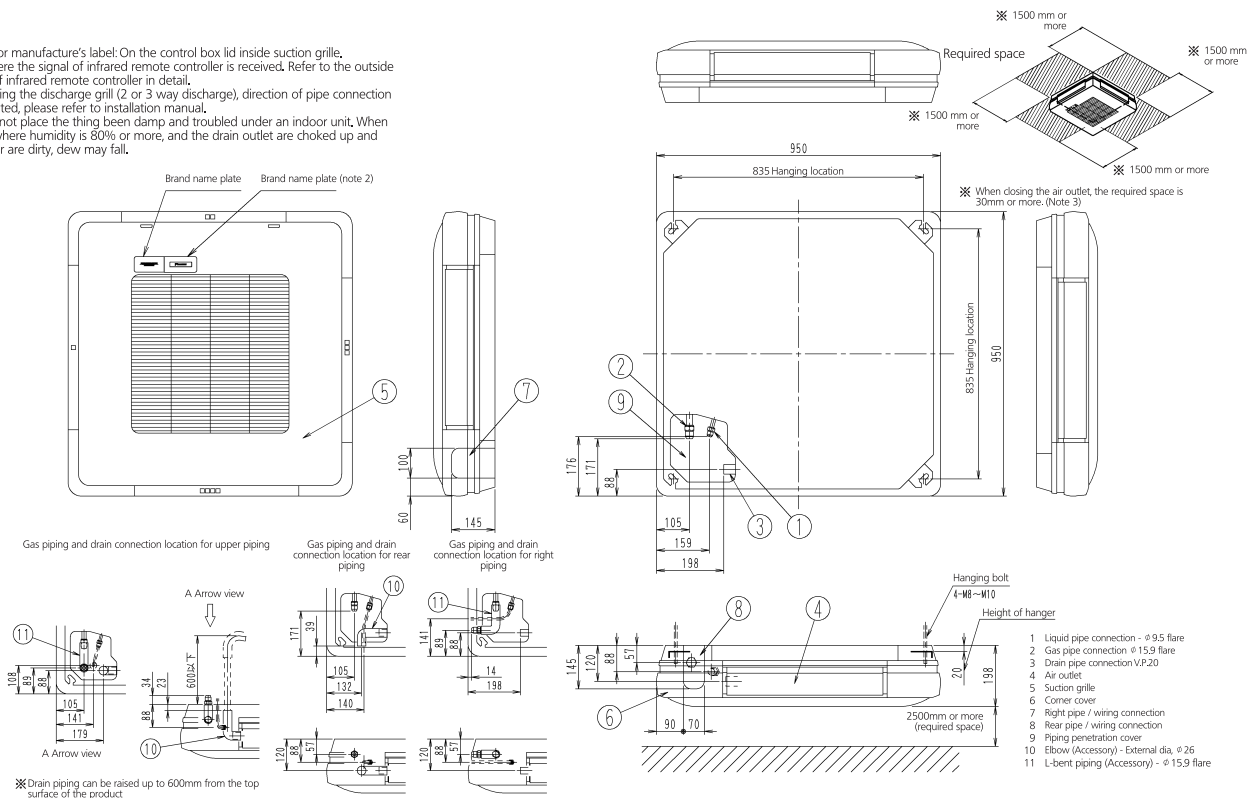
5 - 1 Dimensional Drawings

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)

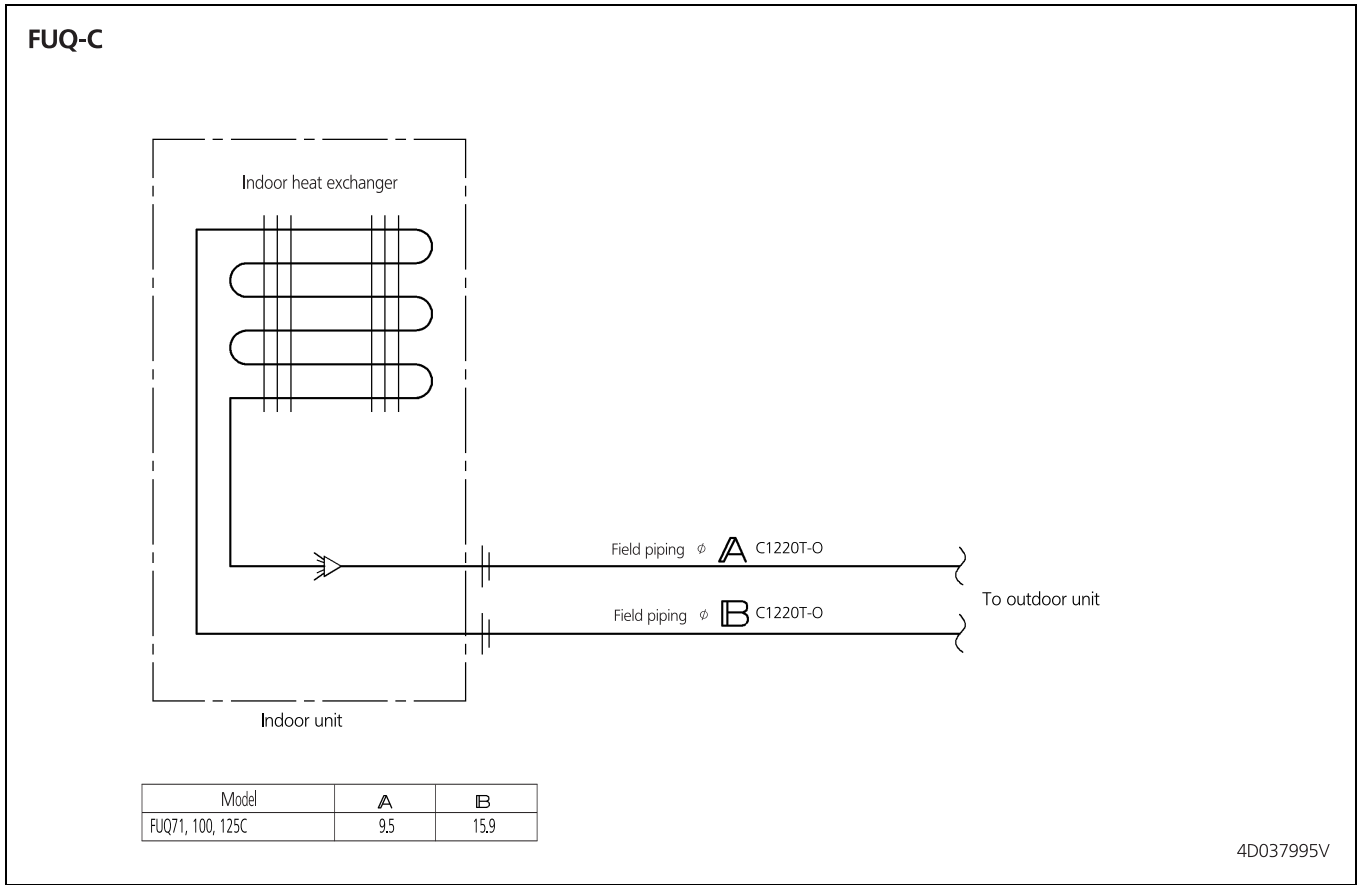


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6 Piping diagrams

6 - 1 Piping Diagrams

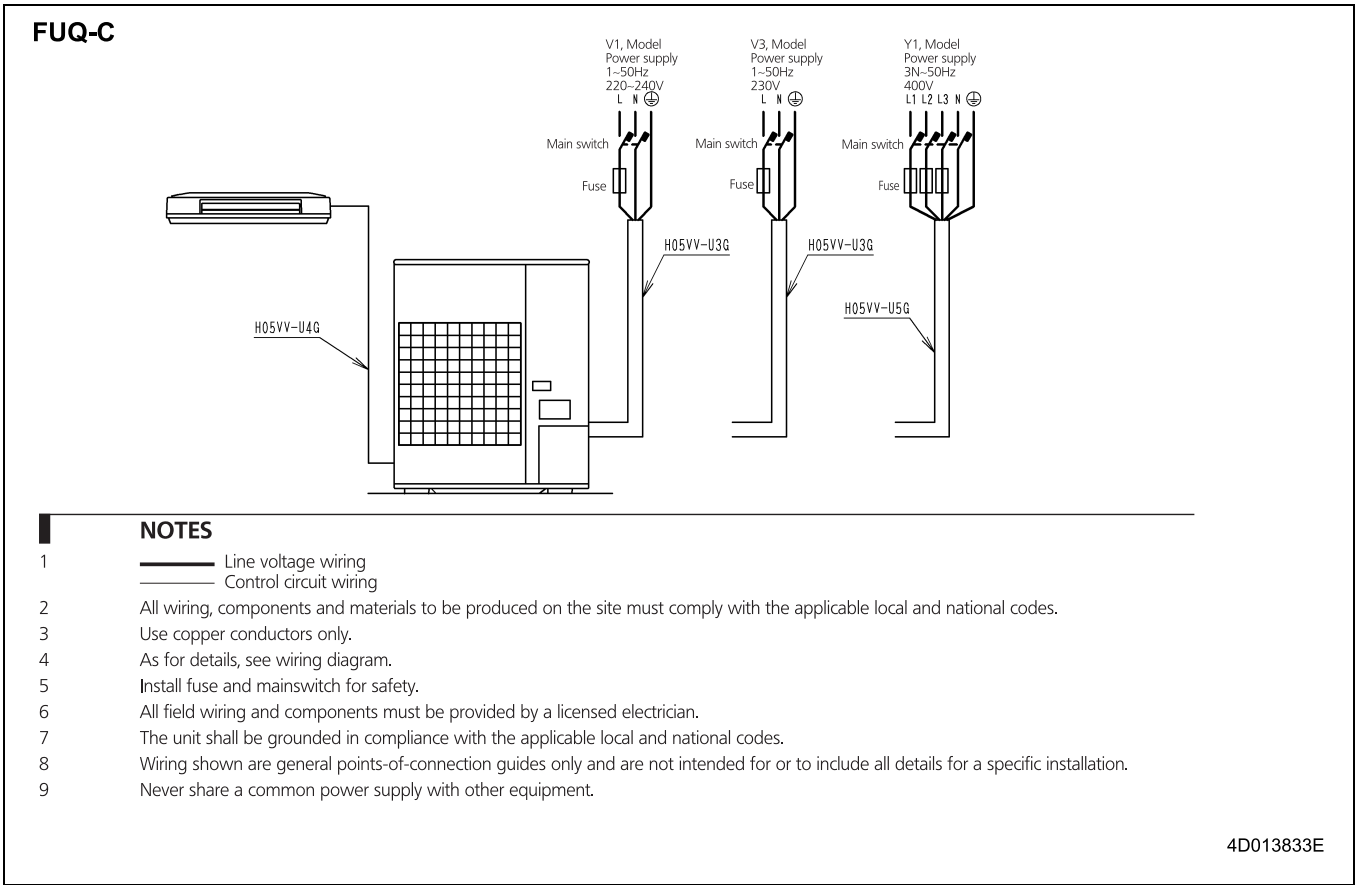
6



8 External connection diagrams

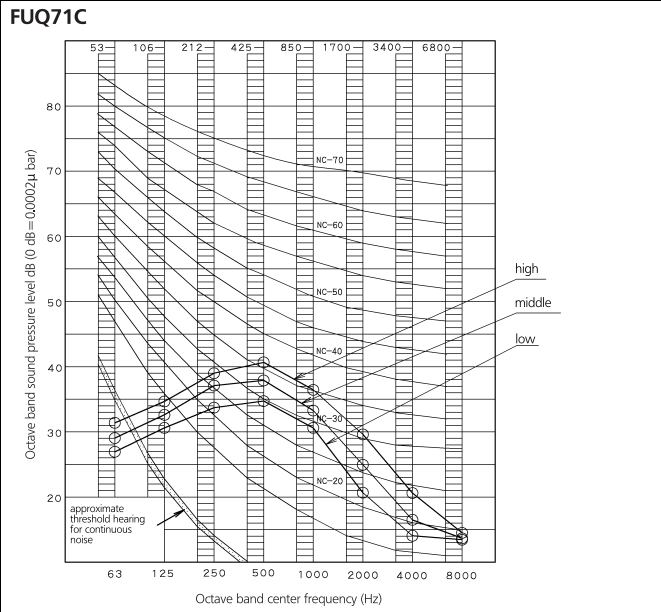
8 - 1 External Connection Diagrams

8



9 Sound data

9 - 1 Sound Pressure Spectrum



NOTES

1 Overall (dB)

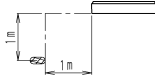
Scale	Mode		
	high	middle	low
A	41.0	38.0	35.0
C	44.6	43.1	38.1

(dBA is already rectified)

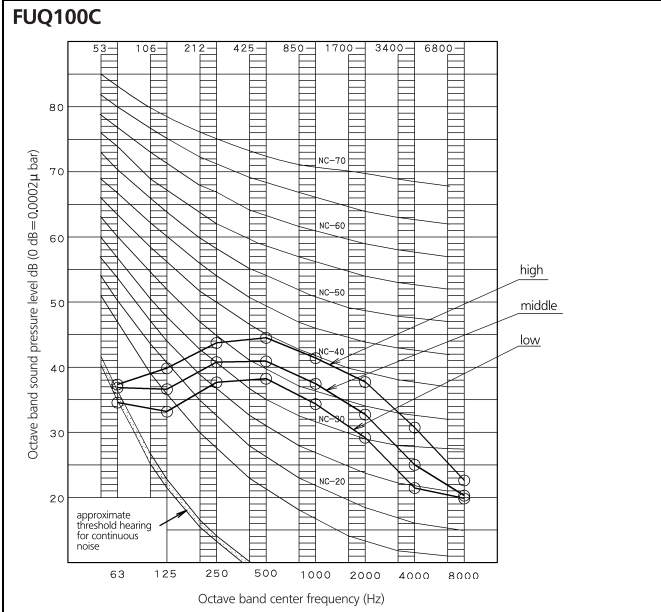
Power level (dB)

Mode		
high	middle	low
59.0	56.0	51.0

- 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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NOTES

1 Overall (dB)

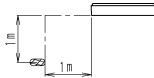
Scale	Mode		
	high	middle	low
A	45.0	42.0	38.0
C	49.3	46.1	43.1

(dBA is already rectified)

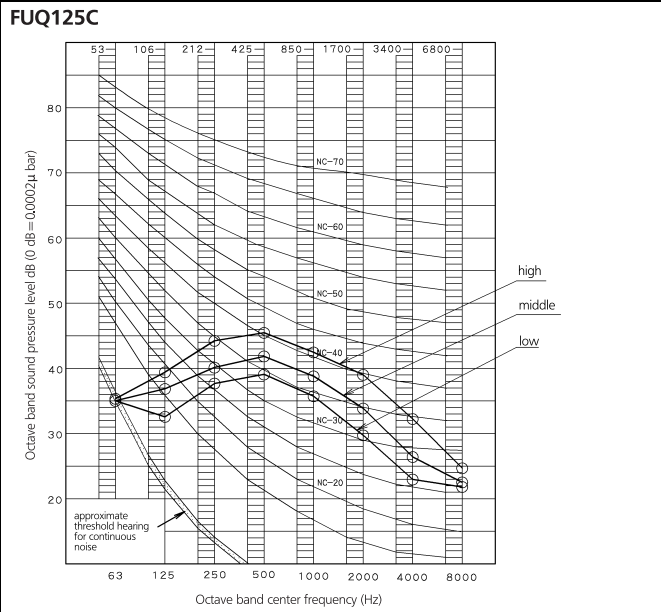
Power level (dB)

Mode		
high	middle	low
62.0	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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NOTES

1 Overall (dB)

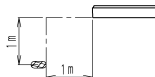
Scale	Mode		
	high	middle	low
A	47.0	43.0	40.0
C	50.0	46.4	43.6

(dBA is already rectified)

Power level (dB)

Mode		
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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