DAIKIN

SkyAir

Air Conditioning
Technical Data

FAQ-C9

> FAQ71CVEB9
> FAQ100CVEB9

TABLE OF CONTENTS
FAQ-C9

1   Features

For rooms with no false ceilings nor free floor space

- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Can easily be installed in both new and refurbishment projects
- Reduced energy consumption thanks to specially developed DC fan motor
- The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control

- Maintenance operations can be performed easily from the front of the unit
- Flexible to install as the largest casing only weighs 17kg and piping connection can be done at the bottom, left or right of the unit
- Optimum comfort guaranteed with automatic air-flow volume control as this minimises the difference between room and required temperature. No action required from occupants to meet the desired temperature.
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.

Infrastructure cooling	Home leave operation	Fan only	Auto cooling-heating changeover	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				FAQ71C9	FAQ100C9
Cooling capacity	Nom.		kW	0.051	0.061
Heating capacity	Nom.		kW	0.068	0.061
Casing	Colour			Fresh White	
	Material			Resin	
Dimensions	Unit	Height/Width/Depth	mm	290/1,050/238	340/1,200/240
	Packed unit	Height/Width/Depth	mm	366/1,147/337	429/1,310/325
Weight	Unit		kg	13	17
	Packed unit		kg	19	24
Heat exchanger	Fin	Type		Cross fin coil (Multi slit fins and Hi-XB tubes)	
Fan	Type			Cross flow fan	
	Quantity			1	
	Air flow rate	Cooling	High	m³/min	18	26
			Low	m³/min	14	19
			Nom.	m³/min	16	23
		Heating	High	m³/min	18	26
			Low	m³/min	14	19
			Nom.	m³/min	16	23
Fan motor	Speed	Steps		3	
	Output	High	W	48	64
	Phase x Voltage		V	DC310	DC325
	Full load amps (FLA)	Cooling	A	0.3	0.4
		Heating	A	0.4	
Sound power level	Cooling		dBA	61	65
	Heating		dBA	61	65
Sound pressure level	Cooling	High/Low	dBA	45/40	49/41
	Heating	High/Low	dBA	45/40	49/41
Refrigerant	Type			R-410A	
Piping connections	Liquid	Type/OD	mm	Flare connection/9.52	
	Gas	Type/OD	mm	Flare connection/15.9	
	Drain			VP13 (I.D. 13/O.D. 18)	
	Heat insulation			Foamed polystyrene/polyethylene	

2-2 Electrical Specifications			FAQ71C9	FAQ100C9
Power supply	Phase		1~	
	Frequency	Hz	50	
	Voltage	V	220-240	

2

3   Options
3 - 1   Options

3

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				FAQ71CVEB9	FAQ100CVEB9
1	Remote control	Wireless	Heat pump operation	BRC7EB518	
			Cooling only	BRC7EB519	
		Wired		BRC1E53A7[3][4], BRC1E53A7[2][4], BRC1E53C7[3][4], BRC1E52A7, BRC1E51A7, BRC1D528	
2	Simplified remote control (with operation mode selector button)			BRC2E52C7[5]	
3	Simplified remote control (without operation mode selector button)			BRC3E52C7[5]	
4	Wiring adaptor for electrical appendices (2)			KRP4AA51[6]	
5	Installation box for adaptor PCB			KRP4AA93[6]	
6	Central remote control			DCS302CA51	
6-1	Electrical box with earth terminal (3 blocks)			KJB311AA	
7	Unified ON/OFF controller			DCS301BA51	
8-1	Electrical box with earth terminal (2 blocks)			KJB212AA	
8-2	Noise filter (for electromagnetic interface only)			KEK26-1A	
9	Schedule timer			DST301BA51	
10	Remote sensor			KRCS01-4B	
11	Drain plug kit			K-KDU572EVE	
12	iTouch Controller			DCS601C51	
13	Digital input adaptor			BRP7A51[6][7]	

(1)   Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.
(2)   Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.
(3)   Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.
(4)   Includes duty rotation functionality
(5)   Included languages are:
       Language pack 1: English, German, French, Dutch, Spanish, Italian, and Portuguese.
       With PC cable EKPCCAB3 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.
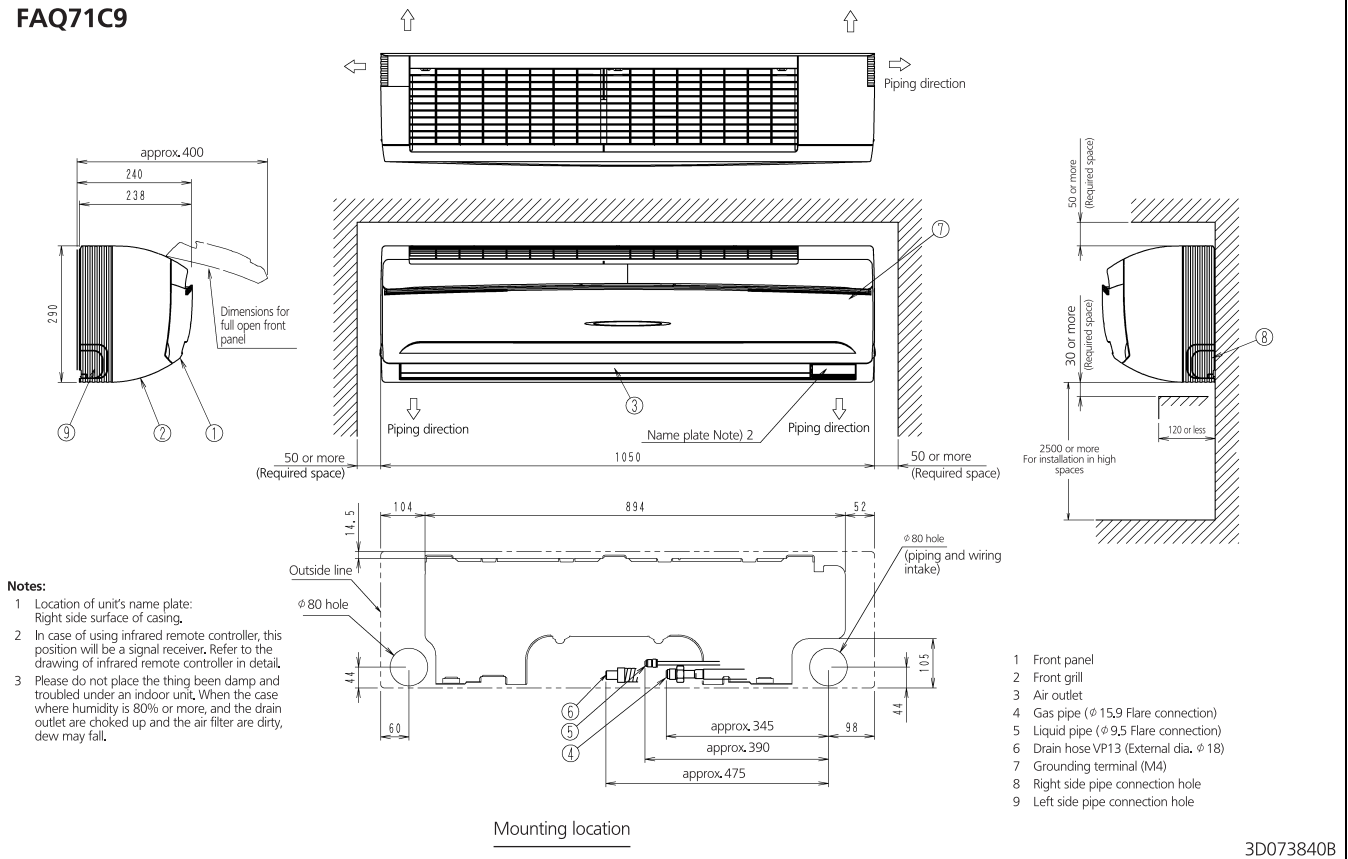(6)   Requires installation box 6.
(7)   Only possible in combination with simplified remote control BRC2/3E52C7.
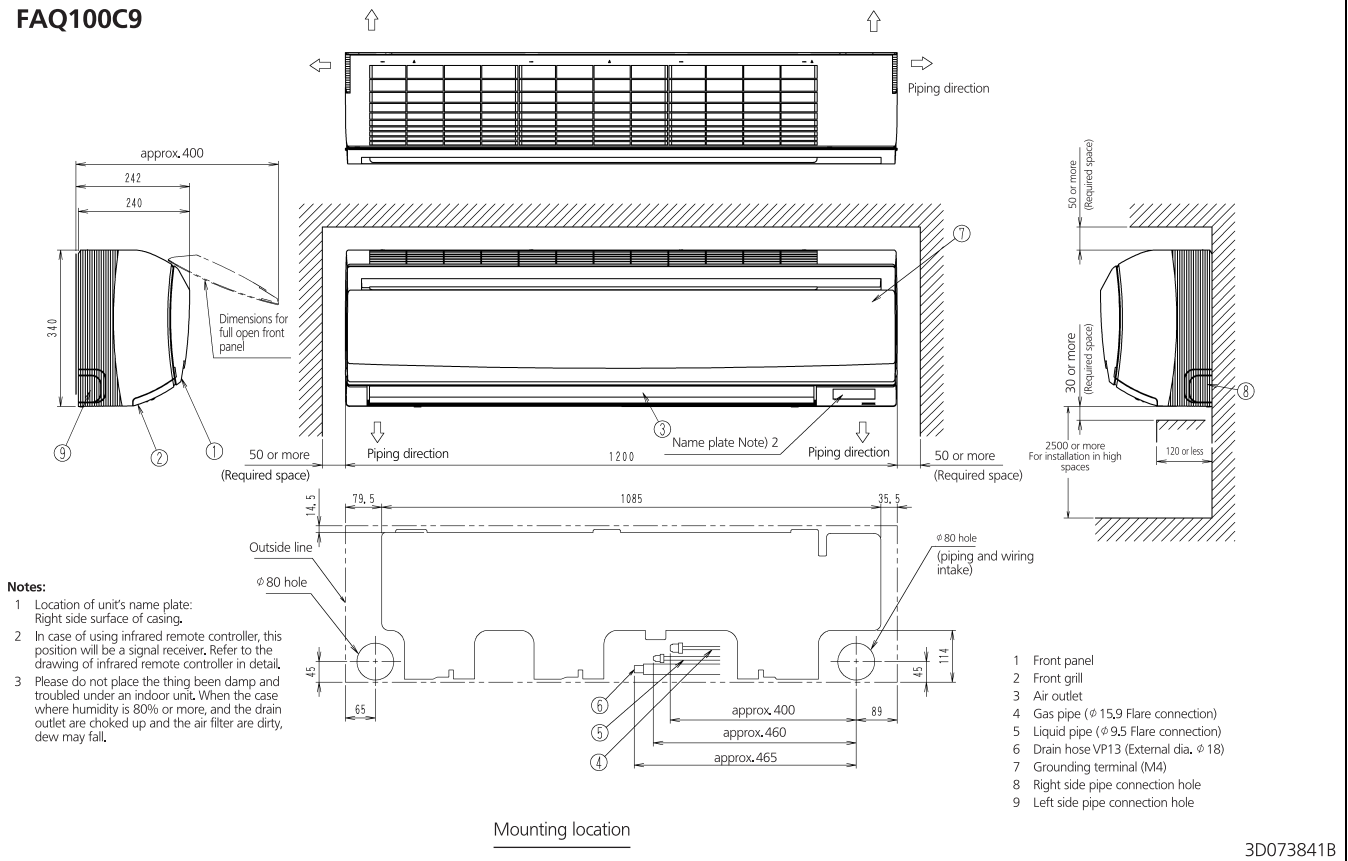
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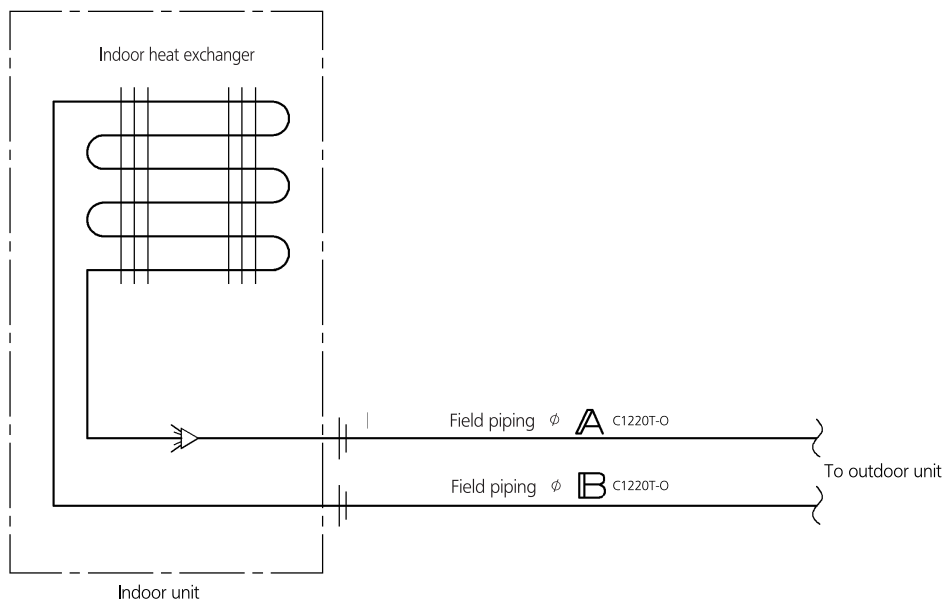
4 Dimensional drawings

4 - 1 Dimensional Drawings

4

FAQ71C9

Piping direction

approx. 400
240
238
290

Dimensions for full open front panel

⑨ ② ①

Piping direction
Name plate Note) 2
Piping direction
③
⑦

50 or more (Required space)
1050
50 or more (Required space)

50 or more (Required space)
30 or more (Required space)
2500 or more For installation in high spaces
120 or less
⑧

14.5
104
894
52
φ80 hole (piping and wiring intake)

Outside line
φ80 hole

44
10.5
44

⑥
⑤
④
60
approx. 345
approx. 390
approx. 475
98

Mounting location

Notes:
1 Location of unit's name plate: Right side surface of casing.
2 In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3 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.

1 Front panel
2 Front grill
3 Air outlet
4 Gas pipe (ϕ15.9 Flare connection)
5 Liquid pipe (ϕ9.5 Flare connection)
6 Drain hose VP13 (External dia. ϕ18)
7 Grounding terminal (M4)
8 Right side pipe connection hole
9 Left side pipe connection hole

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FAQ100C9

Piping direction

approx. 400
242
240
340

Dimensions for full open front panel

⑨ ② ①

Piping direction
Name plate Note) 2
Piping direction
③
⑦

50 or more (Required space)
1200
50 or more (Required space)

50 or more (Required space)
30 or more (Required space)
2500 or more For installation in high spaces
120 or less
⑧

14.5
79.5
1085
35.5
φ80 hole (piping and wiring intake)

Outside line
φ80 hole

45
114
45

⑥
⑤
④
65
approx. 400
approx. 460
approx. 465
89

Mounting location

Notes:
1 Location of unit's name plate: Right side surface of casing.
2 In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3 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.

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5 Piping diagrams
5 - 1 Piping Diagrams

5

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Indoor heat exchanger

Field piping ϕ **A** C1220T-O

Field piping ϕ **B** C1220T-O

To outdoor unit

Indoor unit

Model	Ⓐ	Ⓑ
FAQ71, 100C9	9.5	15.9

4D037995W

6　Wiring diagrams

6 - 1　Wiring Diagrams - Single Phase

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Indoor unit	
A1P	Printed circuit board
C105	Capacitor
HAP	Flashing lamp (service monitor–green)
M1F	Motor (indoor fan)
M1S	Motor (swing flap)
M2S	Motor (swing flap)
R1T	Thermistor (air)
R2T-R3T	Thermistor (coil)
SS1	Selector switch (emergency)
V1R	Diode bridge
X1M	Terminal block (Remote controller)
X2M	Terminal block (Transmission wiring)
Z1C	Ferrite core (Noise filter)
Z1B	Noise filter
PS	Switching power supply
RC	Signal receiver circuit
TC	Signal transmission circuit
Infrared remote controller (Receiver/display unit)	
A2P	Printed circuit board
A3P	Printed circuit board
BS1	Push button switch (On/Off)
H1P	Pilot lamp (ON–Red)
H2P	Pilot lamp (Timer–Green)
H3P	Pilot lamp (Filter sign–Red)
H4P	Pilot lamp (Defrost–Orange)
SS1	Selector switch (main/sub)
SS2	Selector switch (wireless address set)
Wired remote controller	
R1T	Thermistor (air)
Connector for optional parts	
X15A	Connector (float switch)
X24A	Connector (Infrared remote controller)
X35A	Connector (Power supply for adapter)
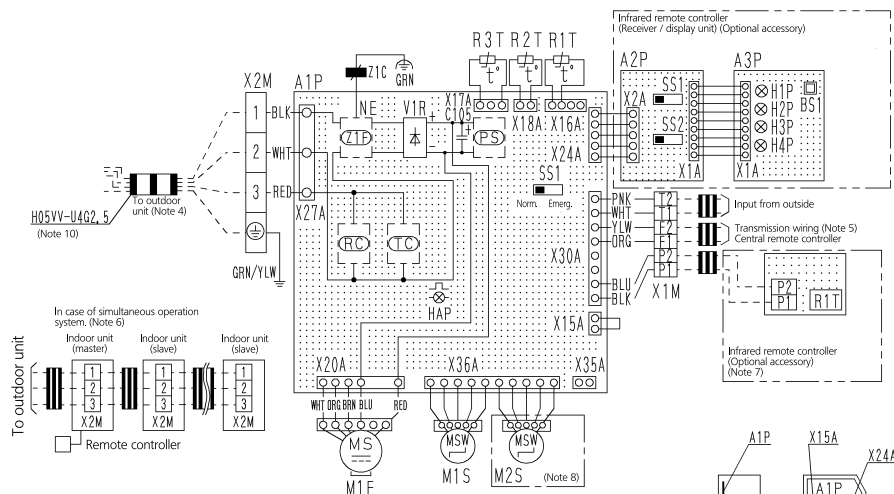
Notes

1. ▭▭▭ : Terminal block　◨◧ : Connector　⌐⌐ : Short circuit connector
2. ═╫╫═ : Field wiring
3. In case of simultaneous operation indoor unit system, See the indoor unit wiring only.
4. For the detail, see wiring diagram attached to outdoor unit.
5. In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
6. In case of connection units varies according to the combination system, confirm engineering guide and catalogs, etc, before connecting.
7. In case of main/sub changeover, see the installation manual attached to remote controller.
8. M2S is 100 only.
9. Symbols shows as follows: BLK:Black RED:Red BLU:Blue WHT:White PNK:Pink YLW:Yellow GRY:Gray GRN:Green ORG:Orange BRN:Brown
10. Shows only in case of protected pipes, use HO7RN-F in case of no protection.
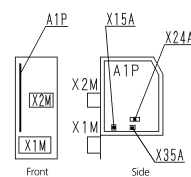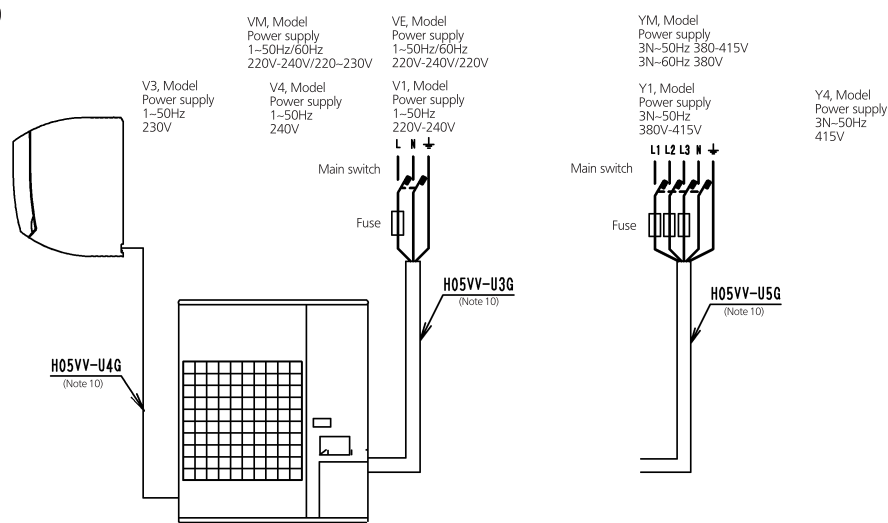
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Control box

7 External connection diagrams
7 - 1 External Connection Diagrams

FAQ-C9

VM, Model
Power supply
1~50Hz/60Hz
220V-240V/220~230V

VE, Model
Power supply
1~50Hz/60Hz
220V-240V/220V

YM, Model
Power supply
3N~50Hz 380-415V
3N~60Hz 380V

V3, Model
Power supply
1~50Hz
230V

V4, Model
Power supply
1~50Hz
240V

V1, Model
Power supply
1~50Hz
220V-240V

Y1, Model
Power supply
3N~50Hz
380V-415V

Y4, Model
Power supply
3N~50Hz
415V

L N

L1 L2 L3 N

Main switch

Main switch

Fuse

Fuse

H05VV–U3G
(Note 10)

H05VV–U5G
(Note 10)

H05VV–U4G
(Note 10)

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 with other equipment.
10 Show only in case of protected pipes. Use HO7RN-F in case of no protection.

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8   Sound data

8 - 1   Sound Pressure Spectrum

FAQ71C9

FAQ100C9
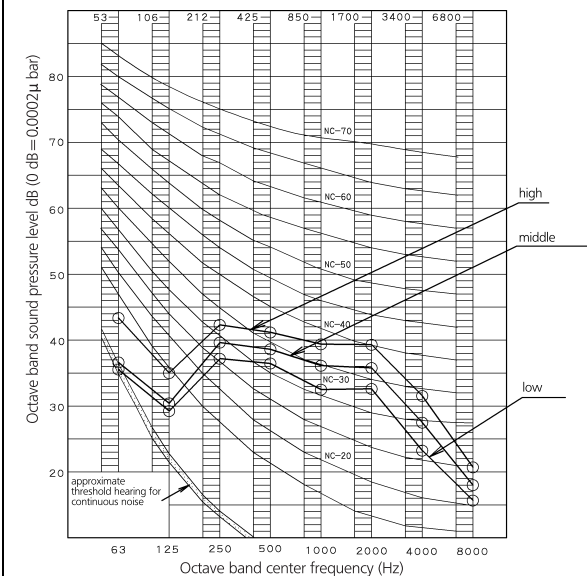
NOTES

1 Overall (dB)

Scale	230V		
	high	middle	low
A	45	42	40
C	48	45	43

(B.G.N is already rectified)

Power level (dB)

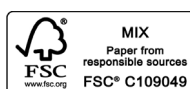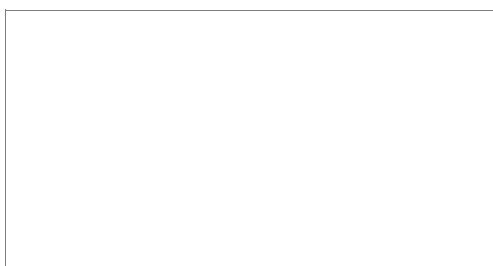|	230V		
	high	middle	low
	61	58	56

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
    O——O 230V
7 Location of microphone

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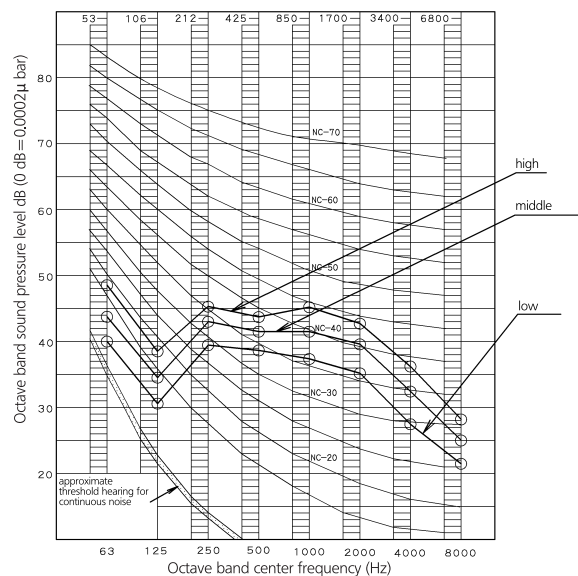
NOTES

1 Overall (dB)

Scale	230V		
	high	middle	low
A	49	45	41
C	52.5	48	44.5

(B.G.N is already rectified)

Power level (dB)

	230V		
	high	middle	low
	65	62	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
    O——O 230V
7 Location of microphone

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