DAIKIN

Sky Air

Air Conditioning Technical Data

FAQ-C9



> FAQ71CVEB9
> FAQ100CVEB9

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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	

3 Options

3 - 1 Options

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				FAQ71CVEB9	FAQ100CVEB9
1	Remote control	Wireless	Heat pump operation	BRC7EB518	
			Cooling only	BRC7EB519	
		Wired		BRC1E53A7[1][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]	

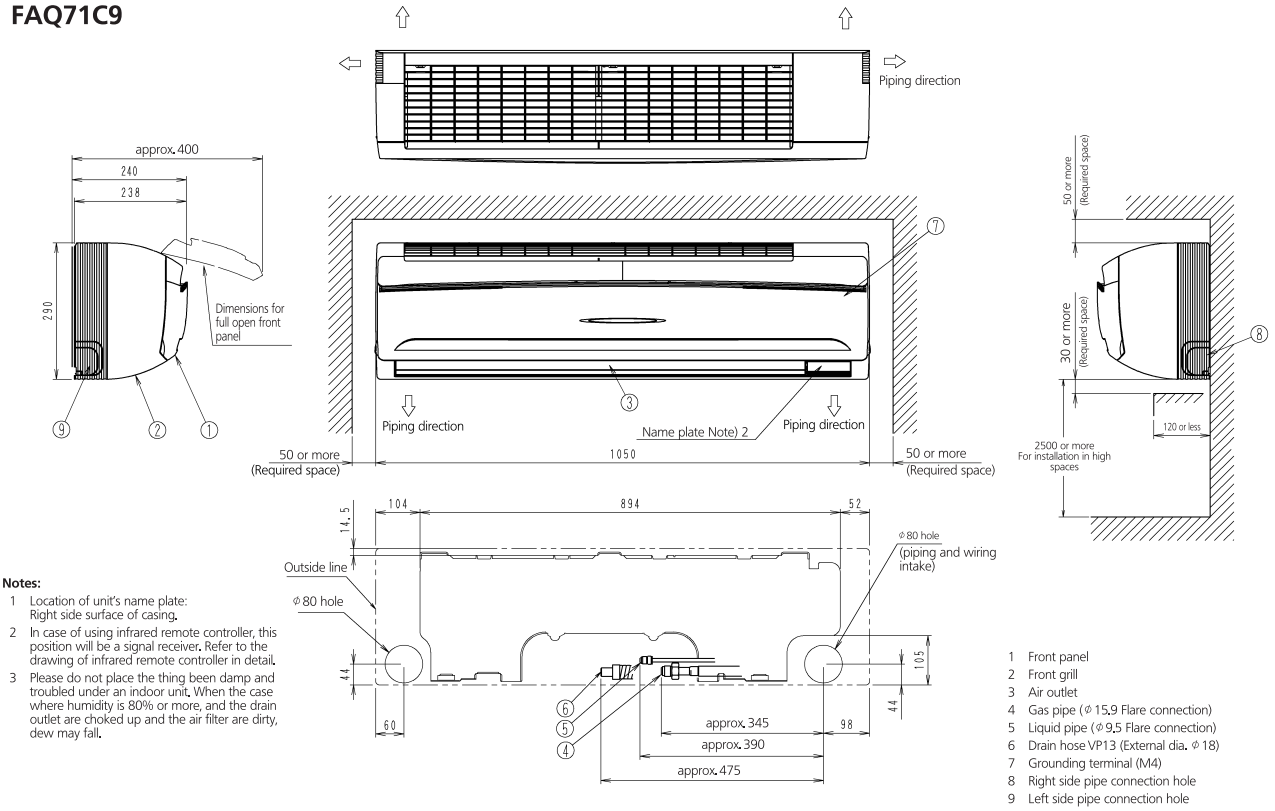
(1) Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.
(2) Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.
(3) Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.
(4) Includes duty 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

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Notes:

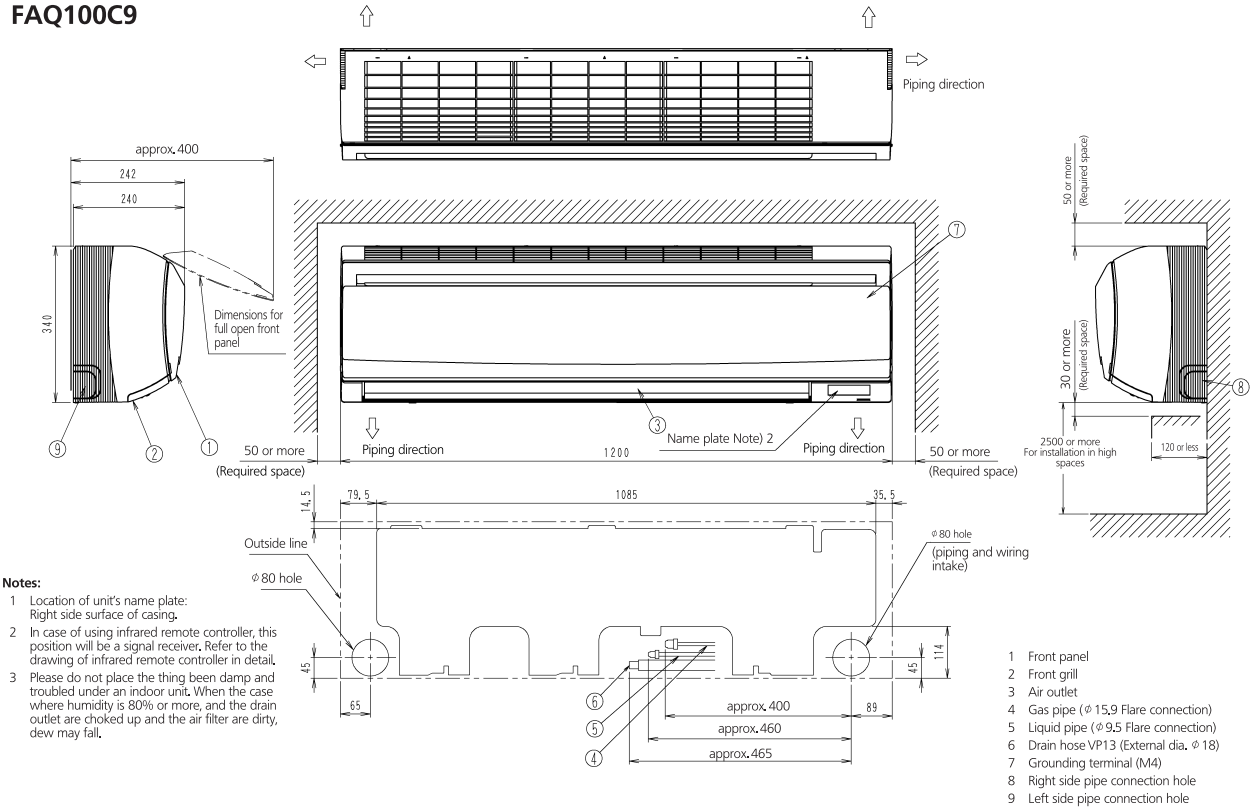
1. Location of unit's name plate: Right side surface of casing.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
3. Please do not place the thing been damp and troubled under an indoor unit. When the 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

Mounting location

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Notes:

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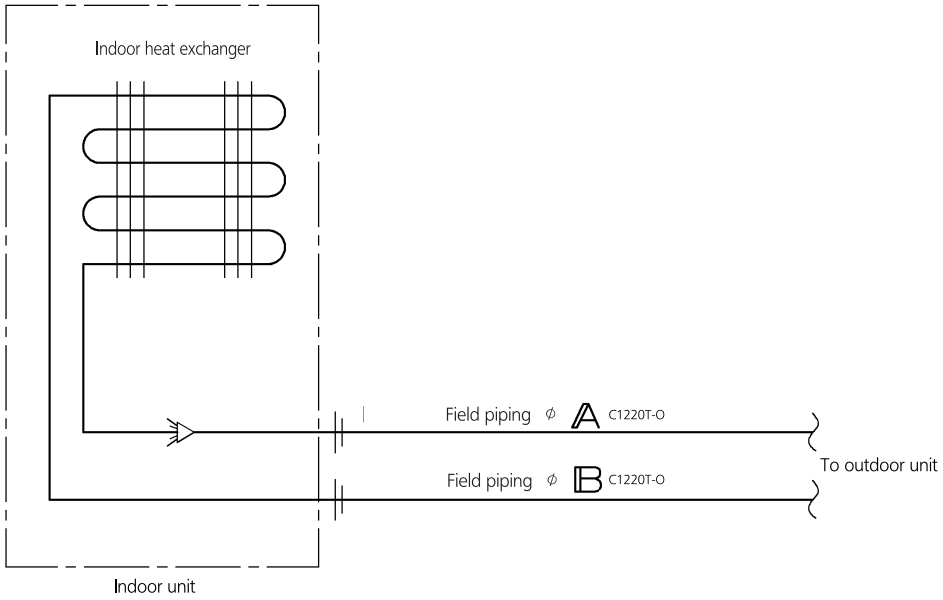
Mounting location

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5 Piping diagrams

5 - 1 Piping Diagrams

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Model	A	B
FAQ71, 100C9	9.5	15.9

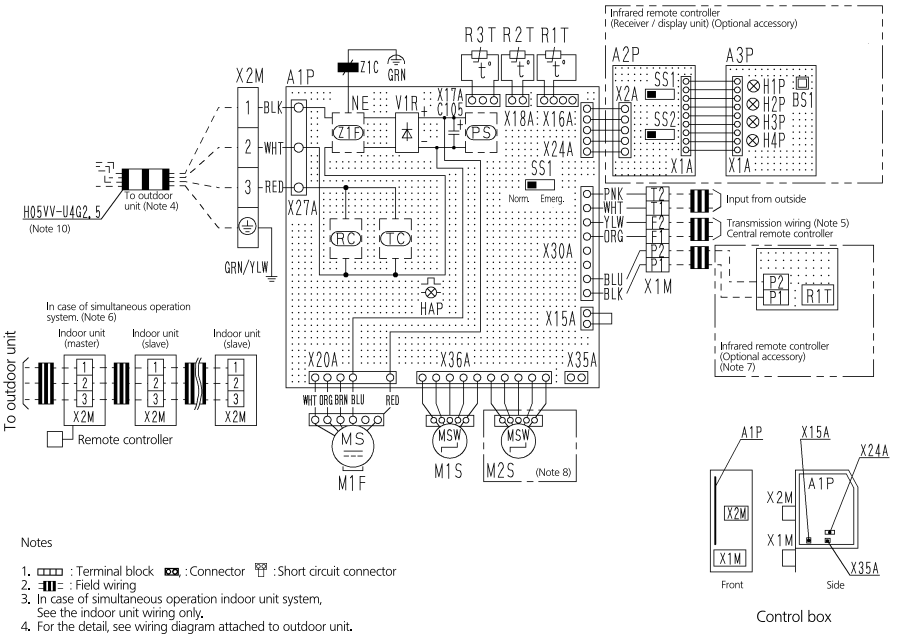
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6 Wiring diagrams

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)
(Z1F)	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

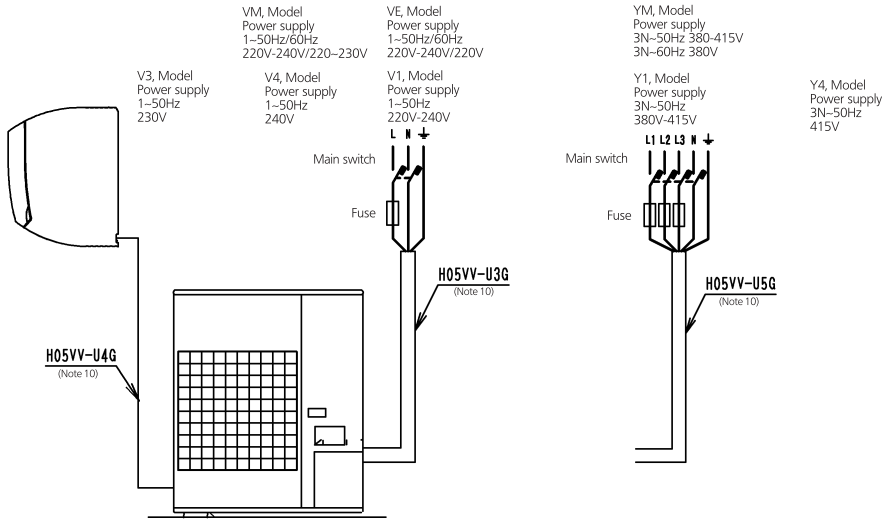
1. : Terminal block : Connector : Short circuit connector
2. : Field wiring
3. In case of simultaneous operation indoor unit system, See the indoor unit wiring only.
4. For the detail, see wiring diagram attached to outdoor unit.
5. In case using central remote controller, connect it to the unit in accordance 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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7 External connection diagrams

7 - 1 External Connection Diagrams

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NOTES

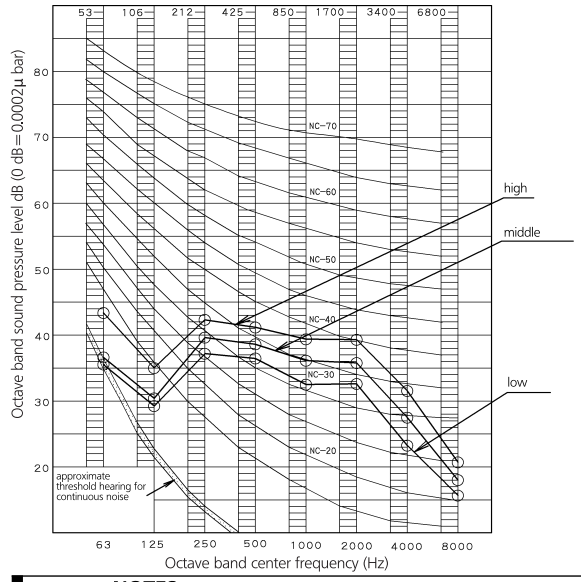
1 ——— Line voltage wiring
——— Control circuit wiring
2 All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
3 Use copper conductor only.
4 As for details, see wiring diagrams.
5 Install fuse and mainswitch for safety.
6 All field wiring 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

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NOTES

1 Overall (dB)

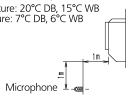
Scale	230V		
	high	middle	low
A	45	42	40
C	48	45	43

(B,G,N is already rectified)

Power level (dB)

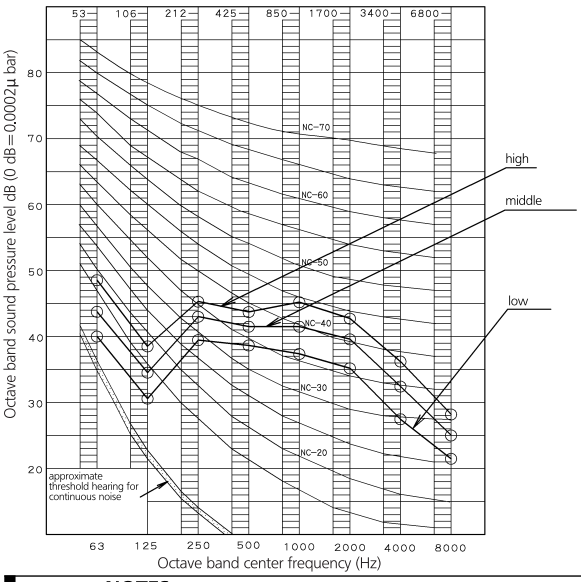
230V		
high	middle	low
61	58	56

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
230V
7 Location of microphone



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NOTES

1 Overall (dB)

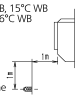
Scale	230V		
	high	middle	low
A	49	45	41
C	52,5	48	44,5

(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
230V
7 Location of microphone



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