

4-way blow ceiling
suspended unit
Air Conditioning
Technical Data
FUA-A



FUA71AVEB9
FUA100AVEB9
FUA125AVEB9

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1 Features

1 - 1 FUA-A

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

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- › 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
- › Unified indoor unit range for R-32 and R-410A
- › Combining with R-32 Bluevolution technology, reduces environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has up to lower 16% refrigerant charge
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- › 5 different discharge angles between 0 and 60° can be programmed via the remote control
- › Stylish modern casing finished in pure white (RAL9010) and iron grey (RAL7011) blends easily with any interior
- › Optimum comfort guaranteed with automatic air flow adjustment to the required load
- › Standard drain pump with 720mm lift increases flexibility and installation speed



- | | | | | | | | | |
|-------------------------------------|-----------------------|-------------------------|------------------------------------|---------------------------------|---------------------------------|-------------------------|---------------------|----------------------------------|
| | | | | | | | | |
| Infrastructure cooling (standard) | Onecta app (optional) | Home leave operation | Fan only | Draught prevention | Auto cooling-heating changeover | Individual flap control | Vertical auto swing | Fan speed steps (3 steps + auto) |
| | | | | | | | | |
| Dry programme | Air filter | Weekly timer (optional) | Infrared remote control (optional) | Wired remote control (optional) | Centralised control (optional) | Auto-restart | Self diagnosis | Drain pump kit (standard) |
| | | | | | | | | |
| Twin/triple/double twin application | | | | | | | | |

2 Specifications

2 - 1 Specifications

Technical specifications					FUA71A	FUA100A	FUA125A
Cooling capacity	Sensible capacity	Nom.	kW		-		7.83
	Latent capacity	Nom.	kW		-		4.27
	Total capacity	Nom.	kW		-		12.10
Heating capacity	Total capacity	Nom.	kW		-		13.5
Power input - 50Hz	Cooling	Nom.	kW	0.109	0.163	0.185	
	Heating	Nom.	kW	0.109	0.163	0.185	
Casing	Colour	Fresh White					
	Material	Resin					
Dimensions	Unit	Height	mm	198			
		Width	mm	950			
		Depth	mm	950			
	Packed unit	Height	mm	295			
		Width	mm	1,026			
		Depth	mm	1,016			
Weight	Unit	kg	25.0	26.0			
	Packed unit	kg	36	38			
Heat exchanger	Inside length	mm	2,413	2,360			
	Outside length	mm	2,467				
	Rows	Quantity	2	3			
	Fin pitch	mm	1.20				
	Face area	m ²	0.338	0.330			
	Stages	Quantity	10				
	Empty tubeplate hole	Quantity	0				
	Tube type	Hi-XA					
	Fin	Type	Multi slit fin				
	Fan	Type	Turbo fan				
Quantity		1					
Air flow rate		Cooling	High	m ³ /min	23.0	31.0	32.5
				cfm	812	1,095	1,148
			Medium	m ³ /min	19.5	25.5	26.5
		cfm	689	901	936		
		Low	m ³ /min	16.0	20.0	20.5	
			cfm	565	706	724	
Heating			High	m ³ /min	23.0	31.0	32.5
		cfm		812	1,095	1,148	
		Medium	m ³ /min	19.5	25.5	26.5	
cfm		689	901	936			
Low		m ³ /min	16.0	20.0	20.5		
	cfm	565	706	724			
	Fan motor	Quantity	1				
Model		ARW5203DK			EHDS10DDK		
Drive	Direct drive						
	Speed	Steps	3				
Phase x Voltage	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		dB(A)	59	64	65	
Sound pressure level	Cooling	High	dB(A)	41	46	47	
		Medium	dB(A)	38	42	43	
		Low	dB(A)	35	39	40	
	Heating	High	dB(A)	41	46	47	
		Medium	dB(A)	38	42	43	
		Low	dB(A)	35	39	40	
Piping connections	Liquid	Type	C1220T (Flare connection)				
		OD	mm	9.52			
	Gas	Type	C1220T (Flare connection)				
		OD	mm	15.9			
Drain	VP25 (OD Ø32.0)						
Drain-up height	mm				600		
Air filter	Type	Resin net					

Standard accessories: Operation manual;Quantity: 1;

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Drain hose;Quantity: 1;

Standard accessories: Thermal insulation tube;Quantity: 3;

Standard accessories: Tie-wraps;Quantity: 10;

Standard accessories: Hose band;Quantity: 1;

2 Specifications

2 - 1 Specifications

Standard accessories: Sealing material;Quantity: 4;

Standard accessories: Washer fixing plate;Quantity: 1;

Standard accessories: Drain joint;Quantity: 1;

Standard accessories: Non woven fabric;Quantity: 1;

Standard accessories: Washer;Quantity: 8;

Standard accessories: Fixing screw for drain hose;Quantity: 5;

2

Electrical specifications			FUA71A	FUA100A	FUA125A
Current - 50Hz	Maximum running current	A	0.9	1.3	1.4

3 Safety device settings

3 - 1 Safety Device Settings

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Safety devices		FUA71AVEB(9)	FUA100-125AVEB(9)
PCB fuse		---	---
PCB fuse (fan driver)		---	---
Fan motor overcurrent protection	Nominal	0.74A	1.33A
Fan motor thermal protector	Maximum	108°C	115°C
Drain pump fuse		---	---

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4 Options

4 - 1 Options

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Option kit		Product name	
Air discharge outlet sealing member		KDBHP49B140	
Decoration panel		KDBTP49B140	
Long-life replacement filter		KAF5511D160	
Remote control	Wired remote control	BRC1D528, BRC1E53A7 ⁽¹⁾ , BRC1E53B7 ⁽²⁾ , BRC1E53C7 ⁽³⁾ , BRC1H51(9)W/S/K, BRC1H81W/S	
	Wireless remote control	Heat pump	BRC7CB58
		Cooling only	BRC7CB59
Simplified remote control (with operation mode selector button)		BRC2E52C7 ⁽⁴⁾	
Simplified remote control (without operation mode selector button)		BRC3E52C7 ⁽⁴⁾	
Central remote control		DCS302CA51, DCS302CA61	
Unified ON/OFF controller		DCS301BA51, DCS301BA61	
Schedule timer		DST301BA51, DST301BA61	
Wiring adaptor for electrical appendices		KRP4AA53 ⁽⁵⁾	
Installation box for adaptor PCB		KRP1BA97	
Remote sensor		KRCS01-4B	
Electrical box with earth terminal (-3: blocks)		KJB311AA	
Electrical box with earth terminal (-2: blocks)		KJB212AA	
Digital input adaptor		BRP7A53 ⁽⁵⁾⁽⁶⁾	
Wi-Fi adaptor for smartphones		BRP069A81 ⁽⁸⁾	

- 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 Included languages are:
 Language pack -1-: English, Bulgarian, Croatian, Czech, Hungarian, Romanian, and Slovenian.
 With PC cable -EKPCAB- 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.
 ⑤ Requires installation box -6-.
 ⑥ Only possible in combination with -BRC2/3E52C7, BRC1E53A/B/C7, BRC1H51(9)W/S/K, BRC1H81W/S-.
 ⑦ Editable data for this drawing are available in the -BOM (E-BOM)- system.
 ⑧ Only possible in combination with wired or wireless remote control (e.g. -BRC1E*, BRC1H*, BRC7FA*-).

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5 Dimensional drawings

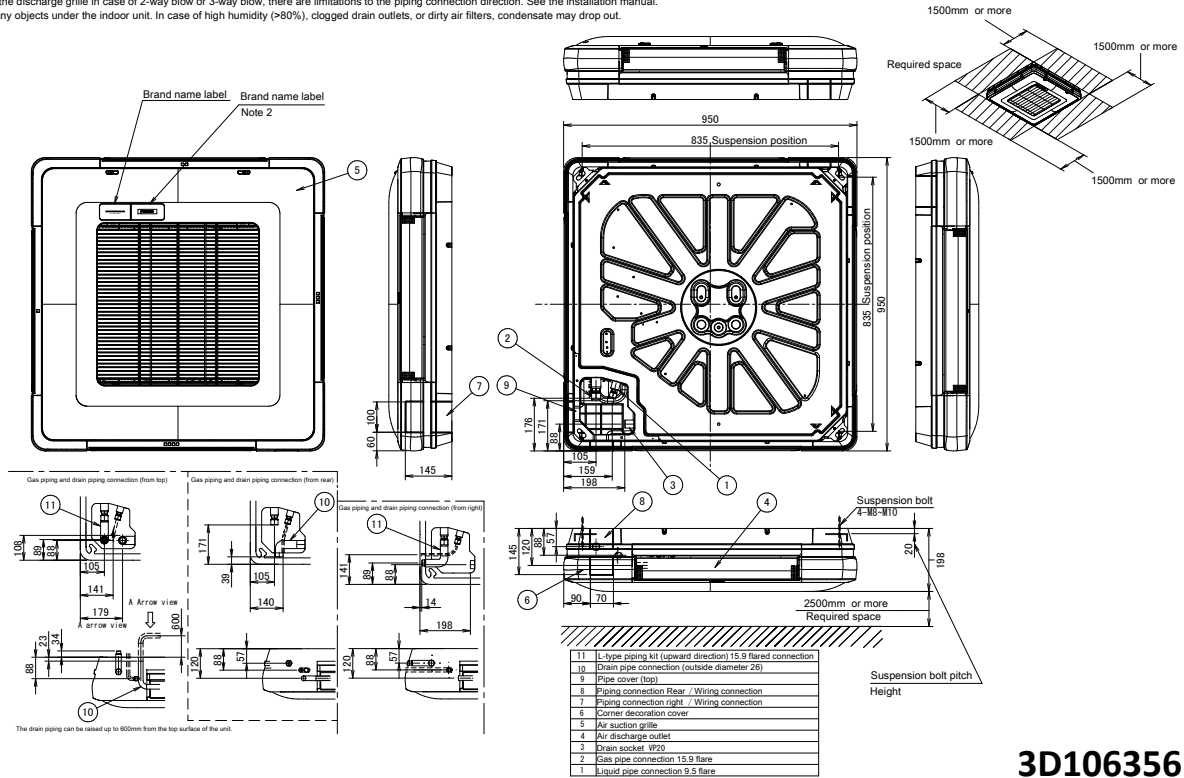
5 - 1 Dimensional Drawings

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Notes

1. The unit nameplate is located on the control box cover.
2. When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.
3. When closing the discharge grille in case of 2-way blow or 3-way blow, there are limitations to the piping connection direction. See the installation manual.
4. Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out.

When closing the air outlet, the required space is 30mm or more. (Note 3)



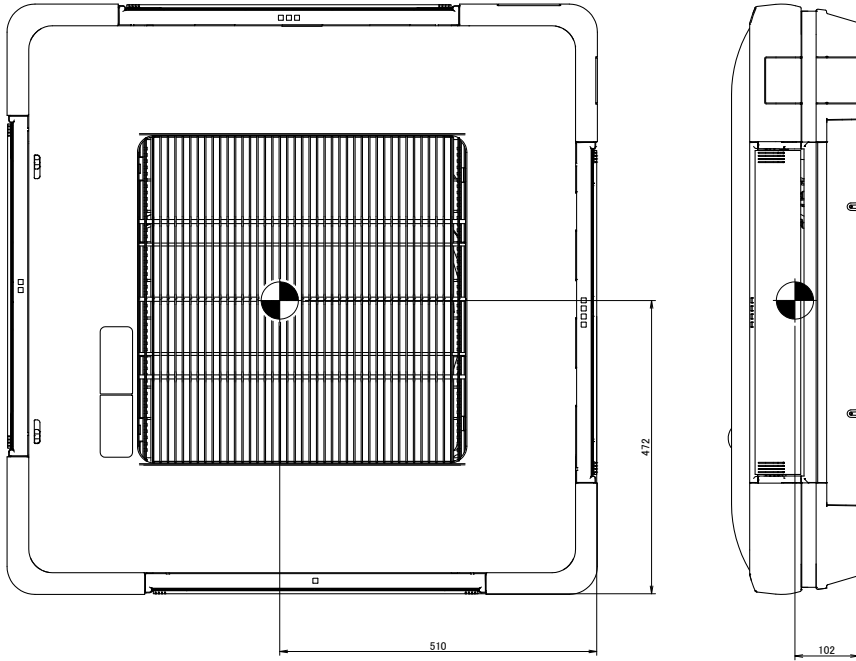
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6 Centre of gravity

6 - 1 Centre of Gravity

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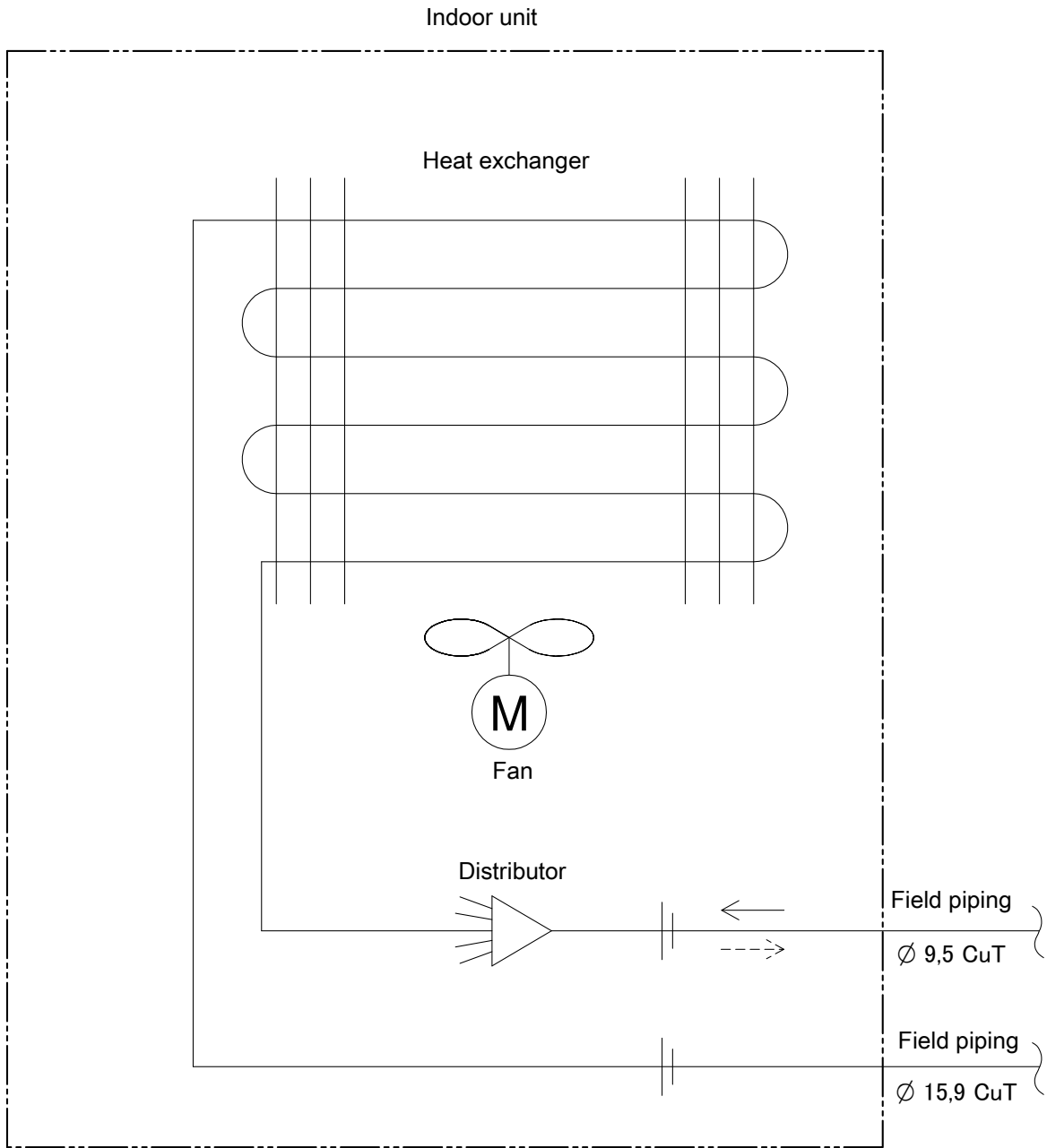


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7 Piping diagrams

7 - 1 Piping Diagrams

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Refrigerant flow
—> Cooling
- - -> Heating

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8 Wiring diagrams

8 - 1 Wiring Diagrams - Three Phase

FUA-A

BLK: black
RED: red
BLU: blue
WHT: white

YLV: yellow
GRN: green
BRN: brown
PNK: pink

H05VV-U4G2.5 (Note 7)

Outdoor (note 3)

In case of simultaneous operation system (Note 5)

Remote controller

Wiring diagram

Control box

Input from outside
Central remote controller (Note 4)

Wired remote controller (Optional accessory) (Note 6)

Wireless remote controller (Receiver / display unit) (Optional accessory)

Indoor unit		PS	Power supply circuit
A1P	Printed circuit board	RC	Signal receiver circuit
A2P	Printed circuit board	TC	Signal transmission circuit
C105	Capacitor (M1F)	Connector for optional parts	
DS1	DIP switch on PCB	X24A	Connector (wireless remote controller)
HAP	Flashing lamp (service monitor: green)	X35A	Connector (power supply for adaptor)
K2R	Magnetic relay	Wireless remote controller (Receiver/display unit)	
M1F	Motor (indoor fan)	A3P	Printed circuit board
M1P	Motor (drain pump)	A4P	Printed circuit board
M1-4S	Motor (swing blade)	BS1	Push button (on/off)
R1T	Thermistor (air)	H1P	Pilot lamp (on: red)
R2T-R3T	Thermistor (coil)	H2P	Pilot lamp (timer: green)
S1L	Floating switch	H3P	Pilot lamp (filter sign: red)
V1R	Diode bridge	H4P	Pilot lamp (defrost: orange)
X1M	Terminal block	SS1	Selector switch (main/sub)
X2M	Terminal block	SS2	Selector switch (wireless address set)
Z1F	Noise filter	Wired remote controller	
Z1C	Ferrite core	R1T	Thermistor(air)
Z2C	Ferrite core		

NOTES

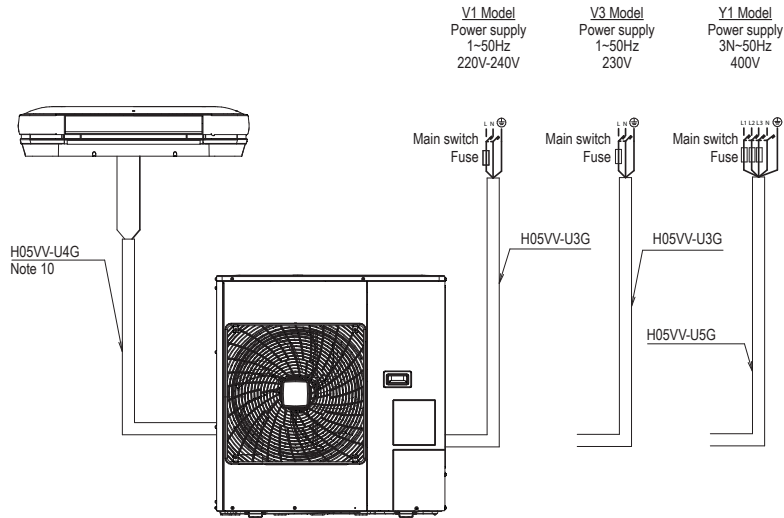
- : Terminal block, □□□□: Connector, □□□□: Field wiring, □□□□: Short circuit connector
- In case of simultaneous operation indoor unit system, see the indoor unit wiring only.
- For the detail, see wiring diagram attached to outdoor unit.
- In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
- In case of simultaneous operation system, connected quantity of the indoor units varies according to the connection outdoor unit. Confirm technical guide and catalogue, etc. Before connecting.
- In case of main/sub changeover see the installation manual attached to remote controller
- Shows only in case of protection piping, use H07RN-F in case of no protection.

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9 External connection diagrams

9 - 1 External Connection Diagrams

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NOTES

1. ——— Line voltage wiring.
- - - - - Control circuit wiring.
2. All wiring components and materials to be procured on-site must comply with the applicable legislation.
3. Use only a copper conductors.
4. For more details, refer to the wiring diagram of the unit.
5. Make sure to install the switch and the fuse to the power line of each equipment.
6. All field wiring and components must be provided by an authorised electrician.
7. Unit has to be grounded in compliance with applicable legislation.
8. The wiring shown is a general points-of-connection guide and is not intended to include all details for a specific installation.
9. Never share the unit's power supply with other equipment.
10. Shows only in case of protected pipes.
11. Use H07RN-F in case of no protection.

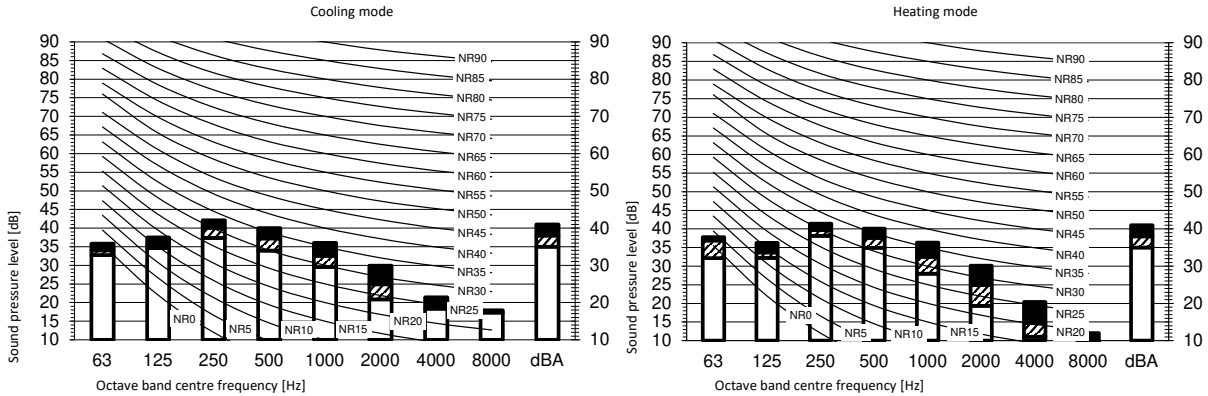
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10 Sound data

10 - 1 Sound Pressure Spectrum

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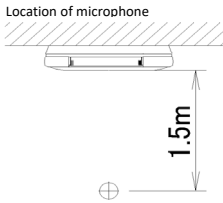
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Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale Fan speed
 B High
 C Medium
 D Low



Cooling		Total dB	
A	B	C	D
dBA	41	38	35

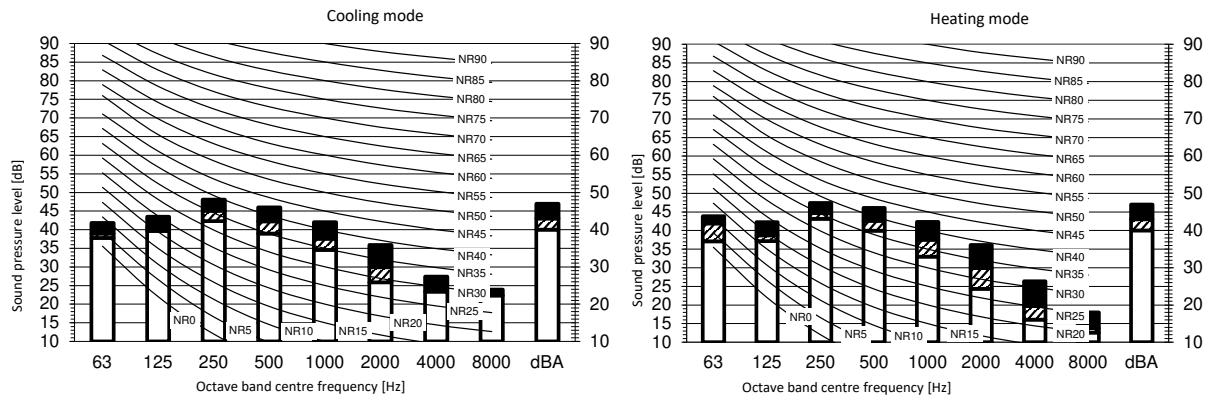
Heating		Total dB	
A	B	C	D
dBA	41	38	35

Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

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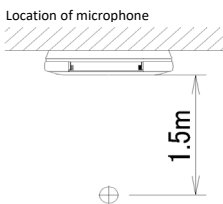
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Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale Fan speed
 B High
 C Medium
 D Low



Cooling		Total dB	
A	B	C	D
dBA	47	43	40

Heating		Total dB	
A	B	C	D
dBA	47	43	40

Notes

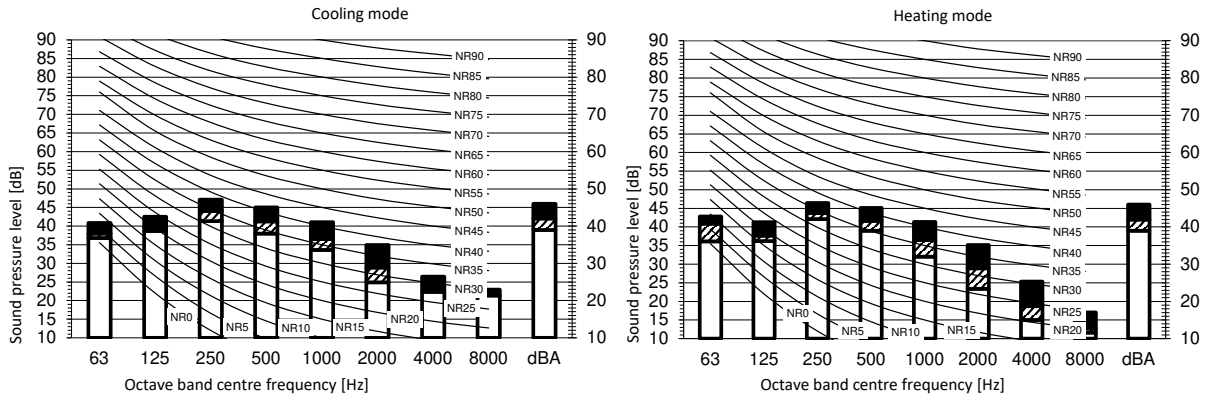
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

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10 Sound data

10 - 1 Sound Pressure Spectrum

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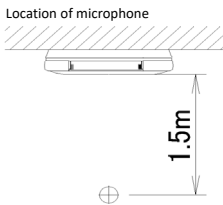


Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale Fan speed

- B High
- C Medium
- D Low



Cooling		Total dB	
A	B	C	D
dBA	46	42	39

Heating		Total dB	
A	B	C	D
dBA	46	42	39

Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

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09/2023



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