

Air Conditioning
Technical Data

FVA-A



- > FVA71AMVEB
- > FVA100AMVEB
- > FVA125AMVEB
- > FVA140AMVEB

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FVA-A

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2-1 Technical Specifications					FVA71A	FAV100A	FVA125A	FVA140A
Casing	Colour				Fresh White			
Dimensions	Unit	Height/Width/Depth	mm		1,850/600/270	1,850/600/350		
	Packed unit	Height/Width/Depth	mm		1,996/732/389	1,996/732/469		
Weight	Unit		kg		42	50		
	Packed unit		kg		56	65		
Heat exchanger	Fin	Type			Cross fin coil (multi louver fins and Hi-XSS tubes)			
Air filter	Type				Resin net			
Fan	Type				Sirocco fan			
	Quantity				1			
	Air flow rate	Cooling	High	m³/min	18	28		30
			Medium	m³/min	16 (1)	25 (1)	26 (1)	28 (1)
			Low	m³/min	14	22	24	26
		Heating	High	m³/min	18	28		30
			Medium	m³/min	16 (1)	25 (1)	26 (1)	28 (1)
			Low	m³/min	14	22	24	26
Fan motor	Quantity				1			
	Model				QS33A1AM			
	Speed	Steps			3			
	Output	High	W	64	152			
	Phase x Voltage			V	DC280V	DC240-380		
Sound power level	Cooling			dBA	55	62	63	65
Sound pressure level	Cooling	High/Medium/Low	dBA	43/41 (1)/38	50/47 (1)/44	51/48 (1)/46	53/51 (1)/48	
	Heating	High/Nom./Medium	dBA	43/41/38	50/47/44	51/48/46	53/51/48	
Control systems	Wired remote control				BRC1D528 / BRC1E53A7 / BRC1E53B7 / BRC1E53C7			
Refrigerant	Type				R-32 / R-410A			
Piping connections	Liquid	Type/OD	mm		Flare connection/9.5			
	Gas	Type/OD	mm		Flare connection/15.9			
	Drain				I.D. 20/O.D. 26			
	Heat insulation				Foamed polystyrene / Foamed polyethylene			

Standard Accessories : Screws; Quantity : 5;
 Standard Accessories : Installation manual; Quantity : 1;
 Standard Accessories : Operation manual; Quantity : 1;
 Standard Accessories : Bush; Quantity : 1;
 Standard Accessories : Tie-wraps; Quantity : 5;
 Standard Accessories : Insulation for fitting for gas pipe; Quantity : 1;
 Standard Accessories : Insulation for fitting for liquid pipe; Quantity : 1;
 Standard Accessories : Dew proof material; Quantity : 1;
 Standard Accessories : Remote control wiring; Quantity : 1;
 Standard Accessories : Bracket for installation; Quantity : 1;
 Standard Accessories : Hole protection rubber; Quantity : 2;
 Standard Accessories : Cover; Quantity : 1;
 Standard Accessories : Installation pattern; Quantity : 1;

2-2 Electrical Specifications					FVA71A	FAV100A	FVA125A	FVA140A
Power supply	Phase				1~			
	Frequency			Hz	50/60			
	Voltage			V	220-240/220			

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(1) See separate drawing for electrical data

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Safety devices	FVA71AMVEB	FVA100-140AMVEB
Printed circuit board fuse (main)	---	---
Fuse (fan motor)	500V, 4A (on wire)	500V, 4A (on wire)
Fan motor overcurrent protection (nom.)	1.64A	0.79A
Fan motor overheat protection (max.)	125°C	135°C
Safety devices	AVA125AMVE	
Printed circuit board fuse (main)	---	
Fuse (fan motor)	500V, 4A (on wire)	
Fan motor overcurrent protection (nom.)	0.79A	
Fan motor overheat protection (max.)	135°C	
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Option kit	Product name	Availability				
		FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB	AVAL25AMVE
Long-life replacement filter	KAFJ95L160	✓	✓	✓	✓	✓
Central remote control	DCS302CA51	✓	✓	✓	✓	✓
Unified ON/OFF controller	DCS301BA51	✓	✓	✓	✓	✓
Schedule timer	DST301BA51	✓	✓	✓	✓	✓
iTouch Controller	DCS601CS1	✓	✓	✓	✓	✓
Wired remote control	BRC1D528 (2)	✓	✓	✓	✓	✓
Wired remote control	BRC1E53A7 (6) / BRC1E53B7 (7) / BRC1E53C7 (8)(5)	✓	✓	✓	✓	✓
Simplified remote control (with operation mode selector button)	BRC2E52C7 (4)(5)	✓	✓	✓	✓	✓
Simplified remote control (without operation mode selector button)	BRC3E52C7 (4)(5)	✓	✓	✓	✓	✓
Adaptor for wiring	KRP1BA57 (1)	✓	✓	✓	✓	✓
Wiring adaptor for electrical appendices (2)	KRP4AA52 (1)	✓	✓	✓	✓	✓
Installation box for adaptor PCB	KRP4AA95	✓	✓	✓	✓	✓
Digital input adaptor	BRP7A52 (3)	✓	✓	✓	✓	✓

Notes

- ①: Requires installation box for adaptor PCB (KRP4AA95).
- ②: Not recommended because of its limited functionality.
- ③: Only possible in combination with remote control BRC2/3E52C, BRC1E53A/B/C7.
- ④: 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.
- ⑤: Language pack 3 of controller BRC1E53C7 is different from that of controller BRC2/3E52C7.
- ⑥: Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.
- ⑦: Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.
- ⑧: Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.

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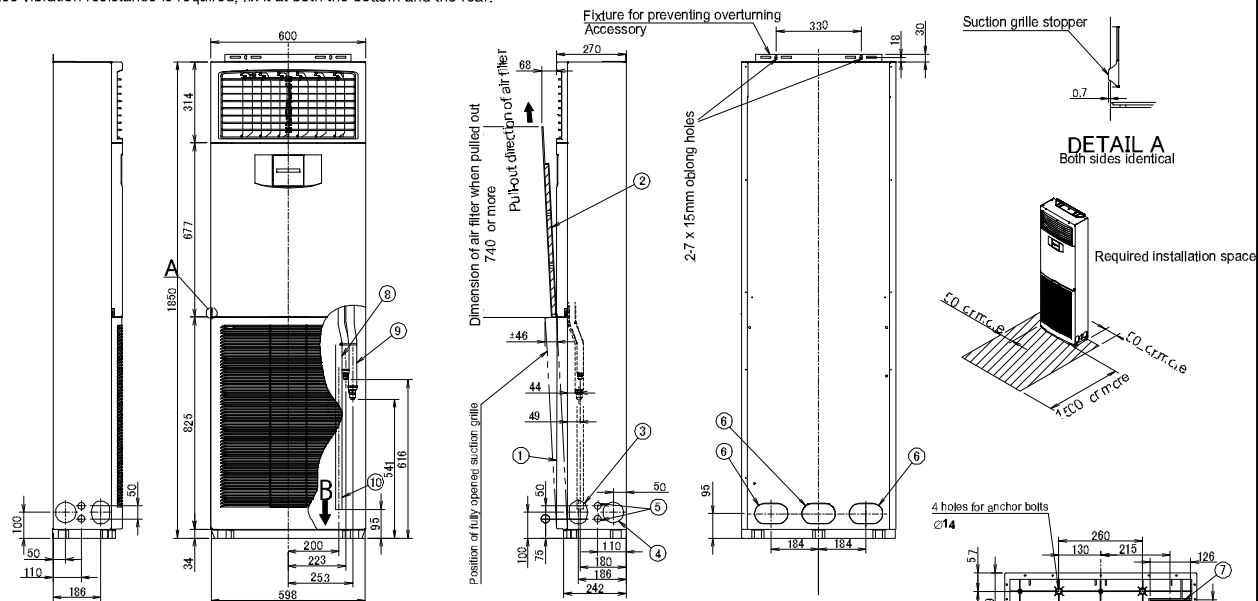
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FVA71A

This unit has to be fixed with fixing screws as shown below.

In case of fixing it at the bottom

In case vibration resistance is required, fix it at both the bottom and the rear.



Item	Part name	Remark
1	Air suction grille	
2	Air filter	
3	Hole for piping	70 x 90mm oblong holes
4	Hole for piping	Knockout hole for recirculation piping or wiring of optional equipment Ø80
5	Hole for piping	Knockout hole for recirculation piping or wiring of optional equipment Ø27
6	Piping hole (rear)	80 x 130mm oblong holes
7	Piping hole (bottom)	126 x 130mm oblong holes
8	Liquid pipe	Ø9.5 flared connection
9	Gas pipe	Ø15.9 flared connection
10	Drain pipe connection	VP20

Notes

The unit nameplate is located on the switch box cover, inside the suction grille.

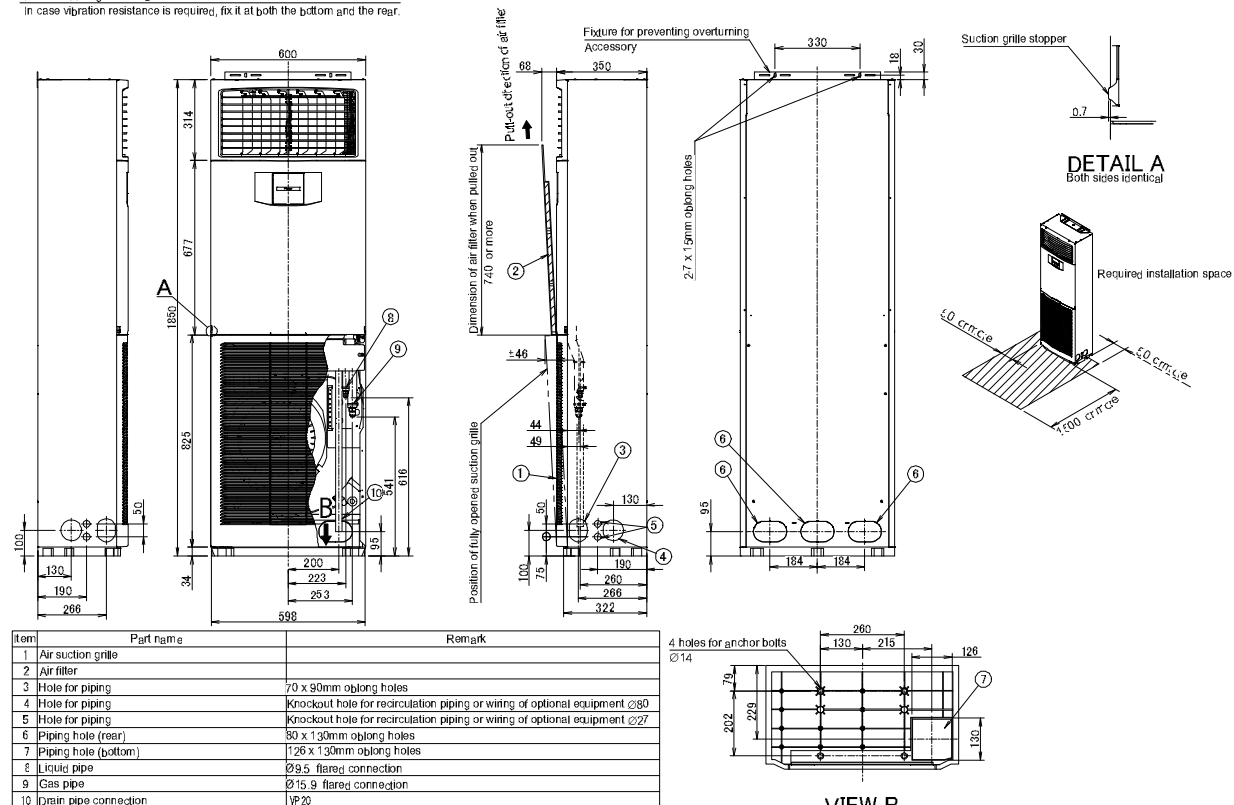
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FVA100-140A

This unit has to be fixed with fixing screws as shown below.

In case of fixing it at the bottom

In case vibration resistance is required, fix it at both the bottom and the rear.



Item	Part name	Remark
1	Air suction grille	
2	Air filter	
3	Hole for piping	70 x 90mm oblong holes
4	Hole for piping	Knockout hole for recirculation piping or wiring of optional equipment Ø80
5	Hole for piping	Knockout hole for recirculation piping or wiring of optional equipment Ø27
6	Piping hole (rear)	80 x 130mm oblong holes
7	Piping hole (bottom)	126 x 130mm oblong holes
8	Liquid pipe	Ø9.5 flared connection
9	Gas pipe	Ø15.9 flared connection
10	Drain pipe connection	VP20

Notes

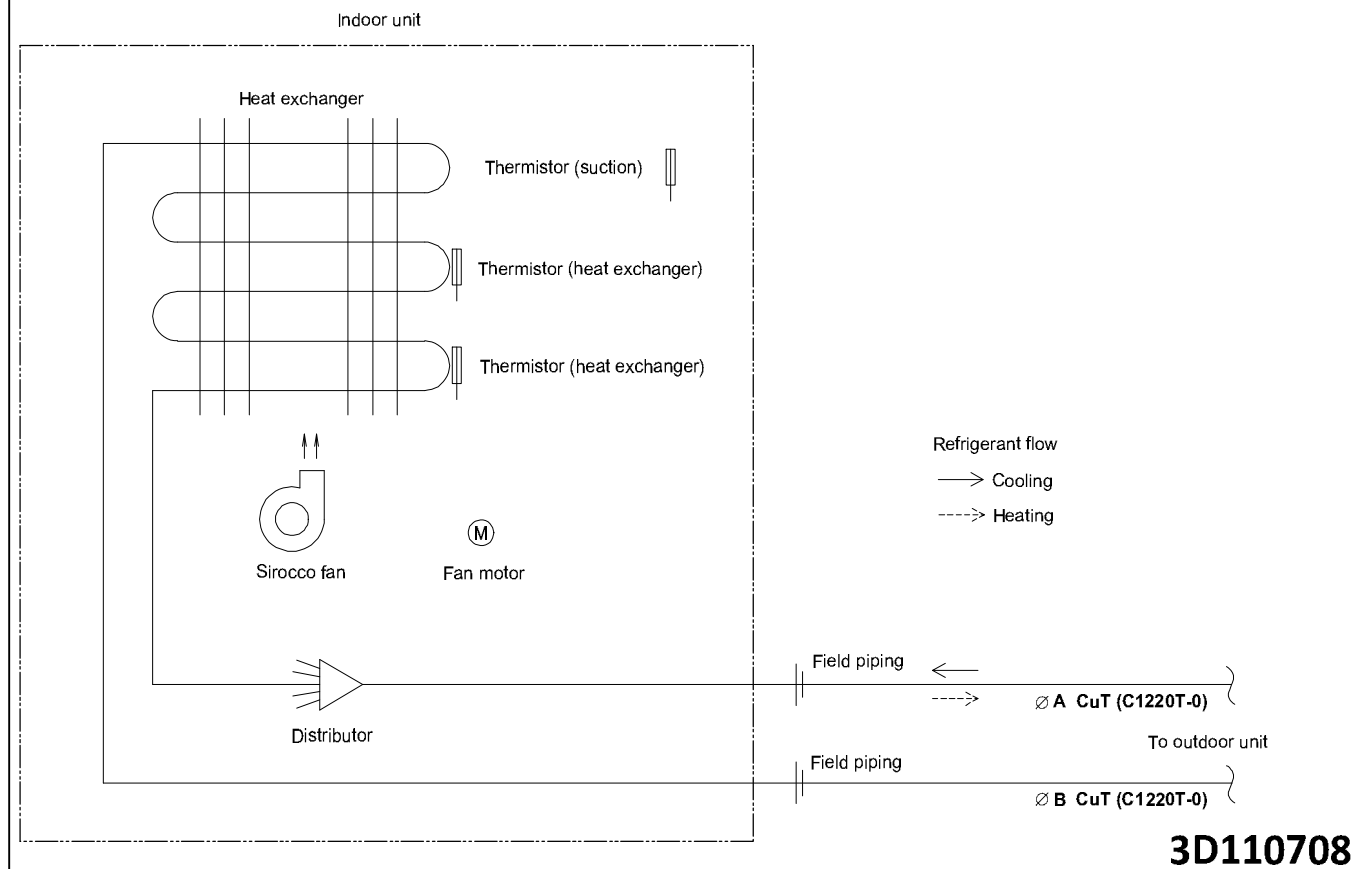
The unit nameplate is located on the switch box cover, inside the suction grille.

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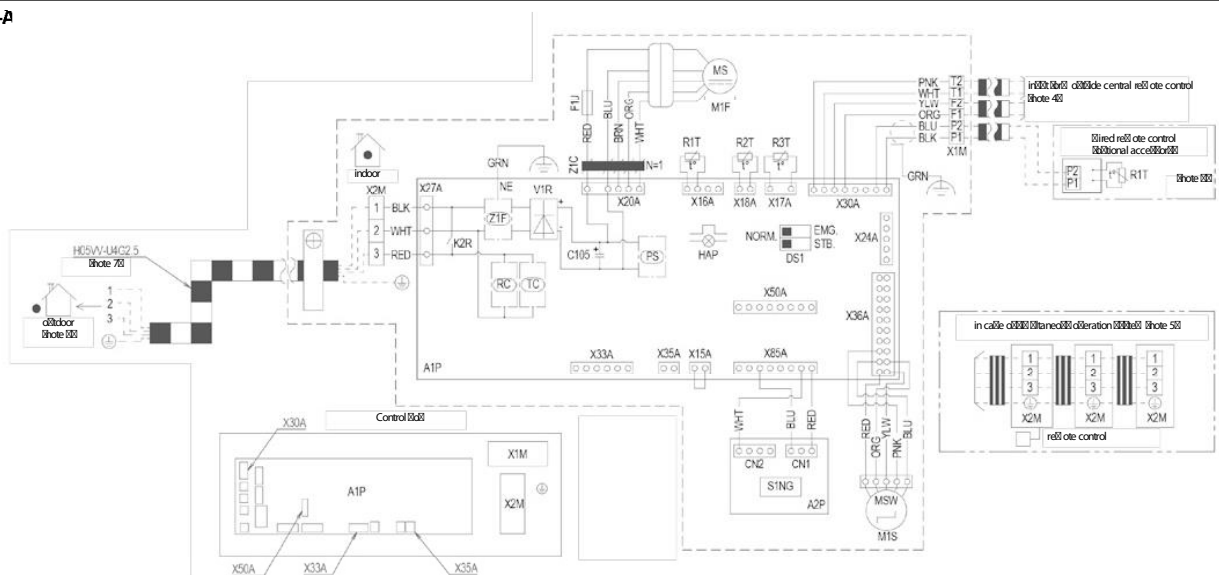
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	Indoor Unit
A10	Printed circuit board
A20	Printed circuit board
C105	Capacitor MIF6
D81	Diode Rect on PCB
EAS	Flashing LED indicator green
R20	Magnetic relay
M1F	Motor Indoor fan
M1240	Motor Blowing blade

Q1T	Thermistor 10kΩ
Q2T-000T	Thermistor 10kΩ
V102	Diode Bridge
Q1M	Test inial 10kΩ
Q2M	Test inial 10kΩ
Q1F	Noise filter
Q1C	Ferrite core
Q03	0.001μF 50VDC capacitor
Q0C	0.001μF 50VDC capacitor

C01003	Safety sensor
TC	Signal transfer on circuit
C015A-0025	Connector
C0100C02	Connector
F102	File #F0200M64A03 Connector for optional part
C024A	Connector for interlock control
0025A	Connector for emergency stop activation
0029A	Connector for start for interlock

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ire color00			
00000	00ac00	00E00	red
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00000	00000	000000	green
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NOTES

2. In case of ☐ **Stained** operation indoor unit ☐ **See the indoor unit wiring on**

4. In case of using central remote control, connect it to the Unit in accordance with the attached installation manual.

50 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.

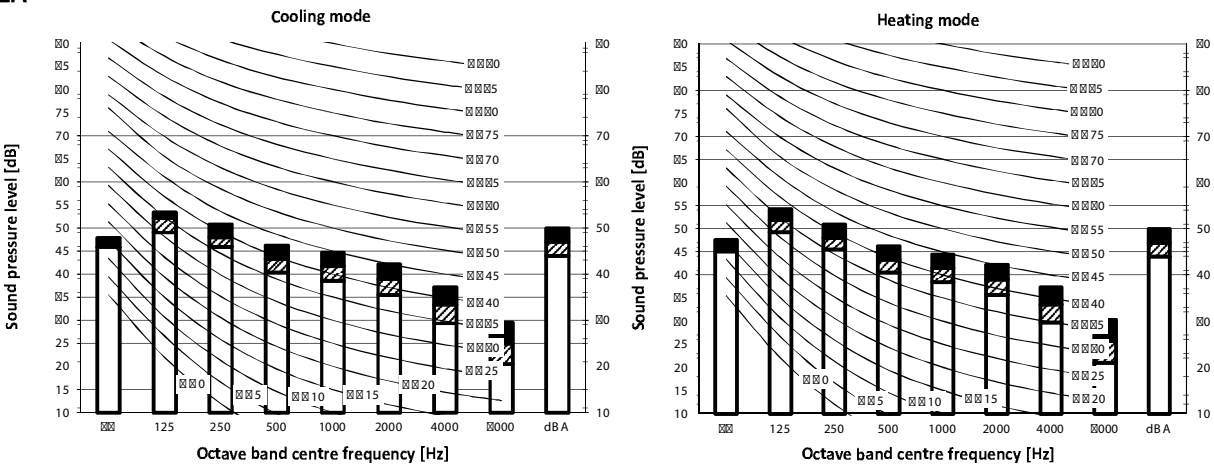
☐ In case of air change, see the installation manual attached to remote control.

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FVA71A



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

A Scale Fan speed
B High
C Medium
D Low
Location of microphone

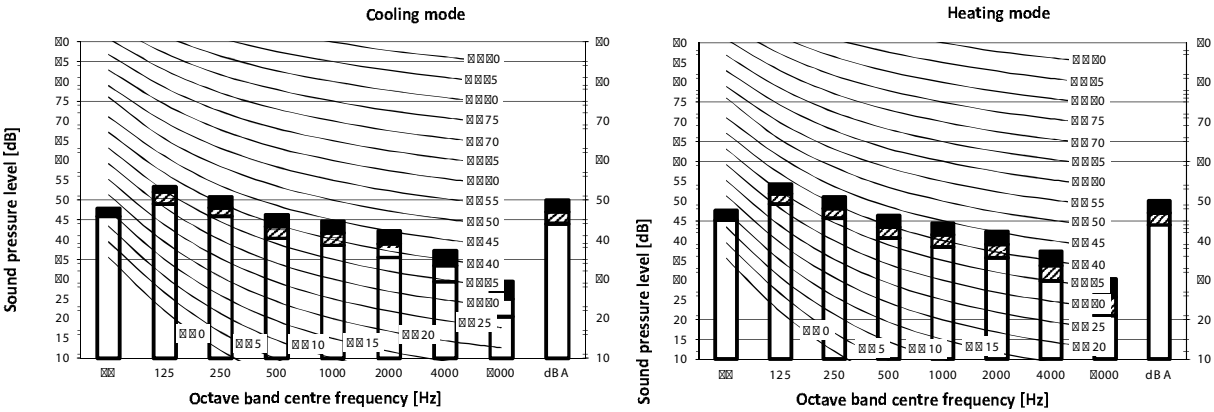
Cooling	Total dB			
A	B	C	D	
dBA	43	41	38	

Heating	Total dB			
A	B	C	D	
dBA	43	41	38	

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

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FVA100A



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

A Scale Fan speed
B High
C Medium
D Low
Location of microphone

Cooling	Total dB			
A	B	C	D	
dBA	50	47	44	

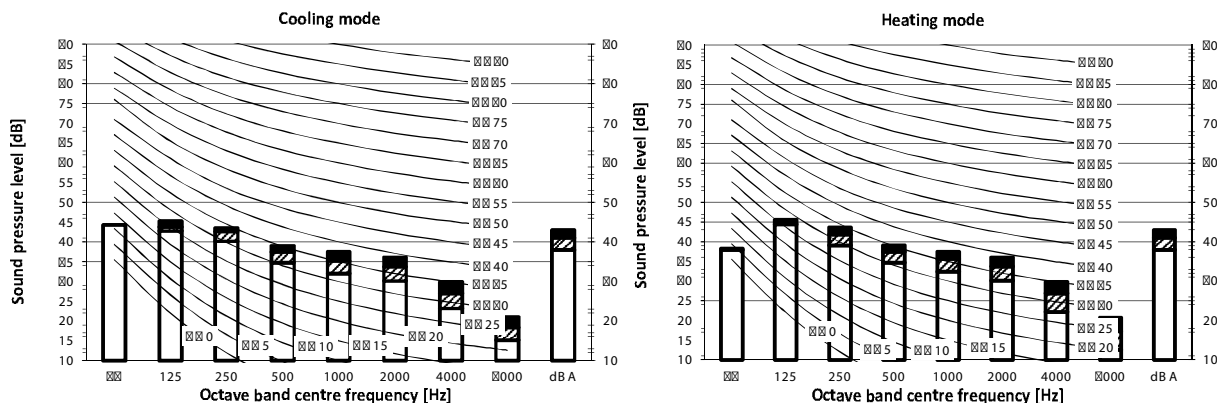
Heating	Total dB			
A	B	C	D	
dBA	50	47	44	

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

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FVA125A



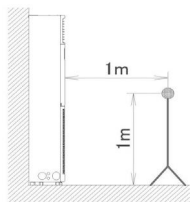
Legend

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

A Scale Fan speed

B High
C Medium
D Low

Location of microphone



Cooling	Total dB			
A	B	C	D	
dBA	51	48	46	

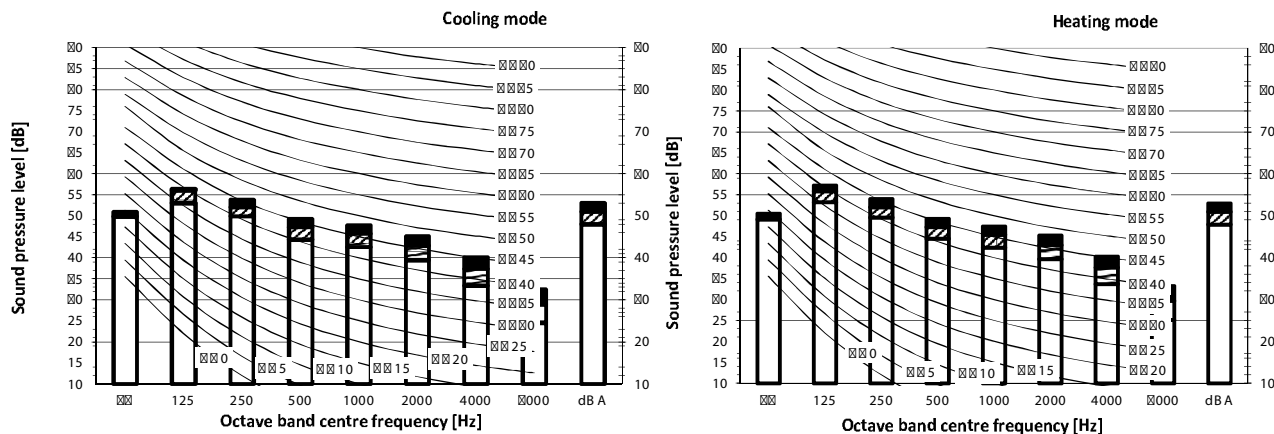
Heating	Total dB			
A	B	C	D	
dBA	51	48	46	

Notes

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

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FVA140A



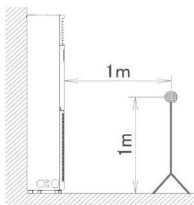
Legend

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

A Scale Fan speed

B High
C Medium
D Low

Location of microphone



Cooling	Total dB			
A	B	C	D	
dBA	53	51	48	

Heating	Total dB			
A	B	C	D	
dBA	53	51	48	

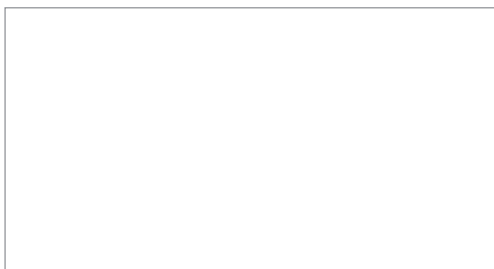
Notes

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

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