

Floor standing unit Air Conditioning Technical Data FVA-A



FVA71AMVEB
FVA100AMVEB
FVA125AMVEB
FVA140AMVEB

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1 Features

1 - 1 FVA-A

For commercial spaces with high ceilings

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- > Decrease of temperature variation by automatic fan speed selection or freely selectable 3-step fan speed.
- > 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
- > Improved comfort as a result of better airflow distribution from the vertical out blow which allows manual adjustment of air outlet blades at the top of the unit.
- > Selectable horizontal out blow to better suit the layout of the room (via wired remote controller BRC1E*/BRC1H*)



Infrastructure cooling



Onecta app (optional)



Home leave operation



Fan only



Auto cooling-heating changeover



Vertical auto swing



Fan speed steps (3 steps + auto)



Dry programme



Air filter



Weekly timer (optional)



Wired remote control (optional)



Centralised control (optional)



Auto-restart



Self diagnosis

2 Specifications

2 - 1 Specifications

Technical specifications				FVA71A	FVA100A	FVA125A	FVA140A	
Cooling capacity	Sensible capacity	Nom.	kW	-	-	7.83	8.68	
	Latent capacity	Nom.	kW	-	-	4.27	4.72	
	Total capacity	Nom.	kW	-	-	12.10	13.40	
Heating capacity	Total capacity	Nom.	kW	-	-	13.5	15.5	
Power input - 50Hz	Cooling	Nom.	kW	0.117	-	0.238	0.276	
	Heating	Nom.	kW	0.117	-	0.238	0.276	
Casing	Colour	Fresh White						
Dimensions	Unit	Height	mm	1,850				
		Width	mm	600				
		Depth	mm	270	350			
	Packed unit	Height	mm	1,996				
		Width	mm	732				
		Depth	mm	389	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)					
Fan	Type	Sirocco fan						
	Quantity	1						
	Air flow rate	Cooling	High	m ³ /min	18	28		30
			Medium	m ³ /min	16	25	26	28
			Low	m ³ /min	14	22	24	26
	Heating	High	m ³ /min	18	28		30	
		Medium	m ³ /min	16	25	26	28	
Low		m ³ /min	14	22	24	26		
Fan motor	Quantity	1						
	Model	QS33A1AM						
	Speed	Steps	3					
	Output	High	W	64	152			
Sound power level	Phase x Voltage		V	DC280V	DC240-380			
	Cooling		dBA	55	62	63	65	
Sound pressure level	Cooling	High	dBA	43	50	51	53	
		Medium	dBA	41	47	48	51	
		Low	dBA	38	44	46	48	
	Heating	High	dBA	43	50	51	53	
		Nom.	dBA	41	47	48	51	
		Medium	dBA	38	44	46	48	
Refrigerant	Type	R-32 / R-410A						
Piping connections	Liquid	Type	Flare connection					
		OD	mm	9.52				
	Gas	Type	Flare connection					
		OD	mm	15.9				
	Drain	I.D. 20/O.D. 26						
Heat insulation	Foamed polystyrene / Foamed polyethylene							
Air filter	Type	Resin net						
Control systems	Wired remote control	BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						

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;

Electrical specifications				FVA71A	FVA100A	FVA125A	FVA140A
Power supply	Phase	1~					
	Frequency	50/60					
	Voltage	220-240/220					

See separate drawing for electrical data

3 Safety device settings

3 - 1 Safety Device Settings

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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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4 Options

4 - 1 Options

FVA-A

Option kit	Product name	Availability				
		FVA71AMVEB	FVA100AMVEB	FVA125AMVEB	FVA140AMVEB	FVA125AMVE
Long-life replacement filter	KAFJ95L160	✓	✓	✓	✓	✓
Central remote control	DCS302CA51	✓	✓	✓	✓	✓
Unified ON/OFF controller	DCS301BA51	✓	✓	✓	✓	✓
Schedule timer	DST301BA51	✓	✓	✓	✓	✓
iTouch Controller	DCS601C51	✓	✓	✓	✓	✓
Wired remote control	BRC1D528 (2), BRC1HW/S	✓	✓	✓	✓	✓
Wired remote control	BRC1H51(9)W/S/K / 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)	✓	✓	✓	✓	✓
Adapter for wiring	BRP11B61 (1)	✓	✓	✓	✓	✓
Installation box for adaptor PCB	KRP4AA95	✓	✓	✓	✓	✓
Digital input adaptor	BRP7A52 (3)	✓	✓	✓	✓	✓
Wi-Fi adaptor for smartphones	BRP069A81 (10)	✓	✓	✓	✓	✓

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 -BRC2/3E52C7, BRC1E53A/B/C7, BRC1H51(9)W/S/K, BRC1H81W/S.
- ④: 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.
- 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.
- ⑨ Only possible in combination with wired or wireless remote control (e.g. -BRC1E*, BRC1H*, BRC7FA*.)

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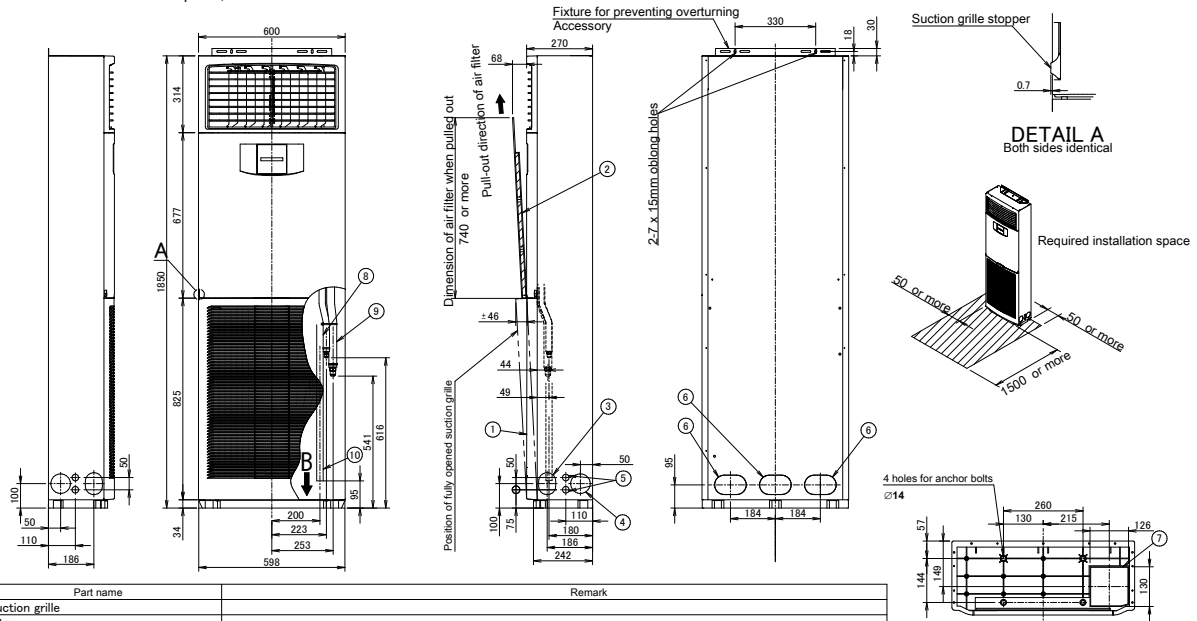
5 Dimensional drawings

5 - 1 Dimensional Drawings

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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.



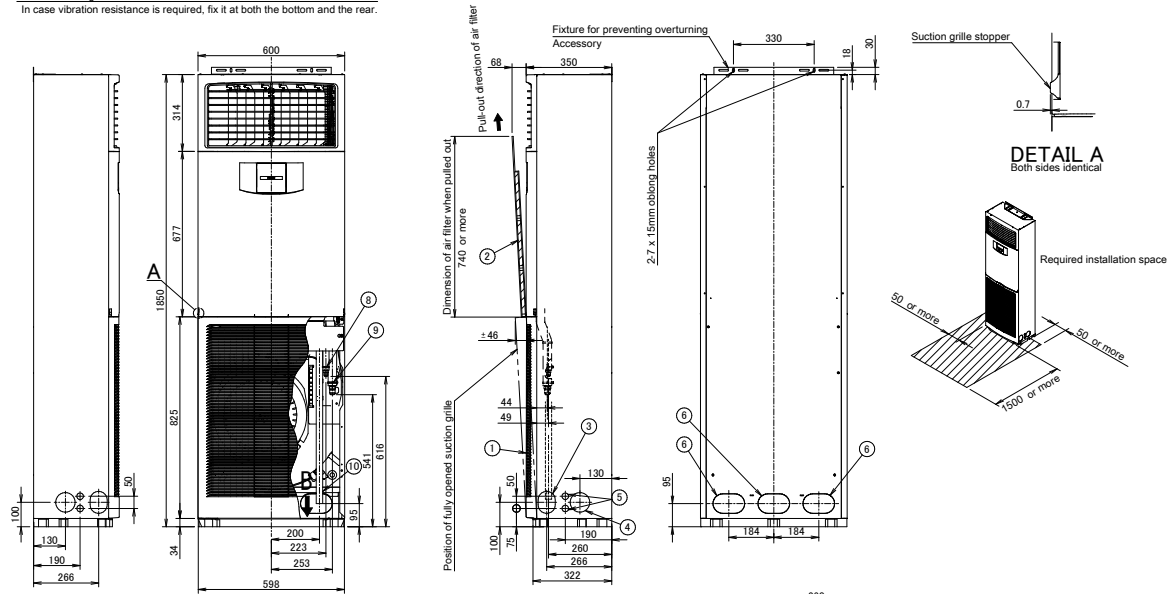
Item	Part name	Remark
1	Air suction grille	
2	Air filter	
3	Hole for piping	70 x 90mm oblong holes
4	Hole for piping	Knockout hole for recirculation piping or wiring of optional equipment $\varnothing 80$
5	Hole for piping	Knockout hole for recirculation piping or wiring of optional equipment $\varnothing 27$
6	Piping hole (rear)	80 x 130mm oblong holes
7	Piping hole (bottom)	126 x 130mm oblong holes
8	Liquid pipe	$\varnothing 9.5$ flared connection
9	Gas pipe	$\varnothing 15.9$ 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.



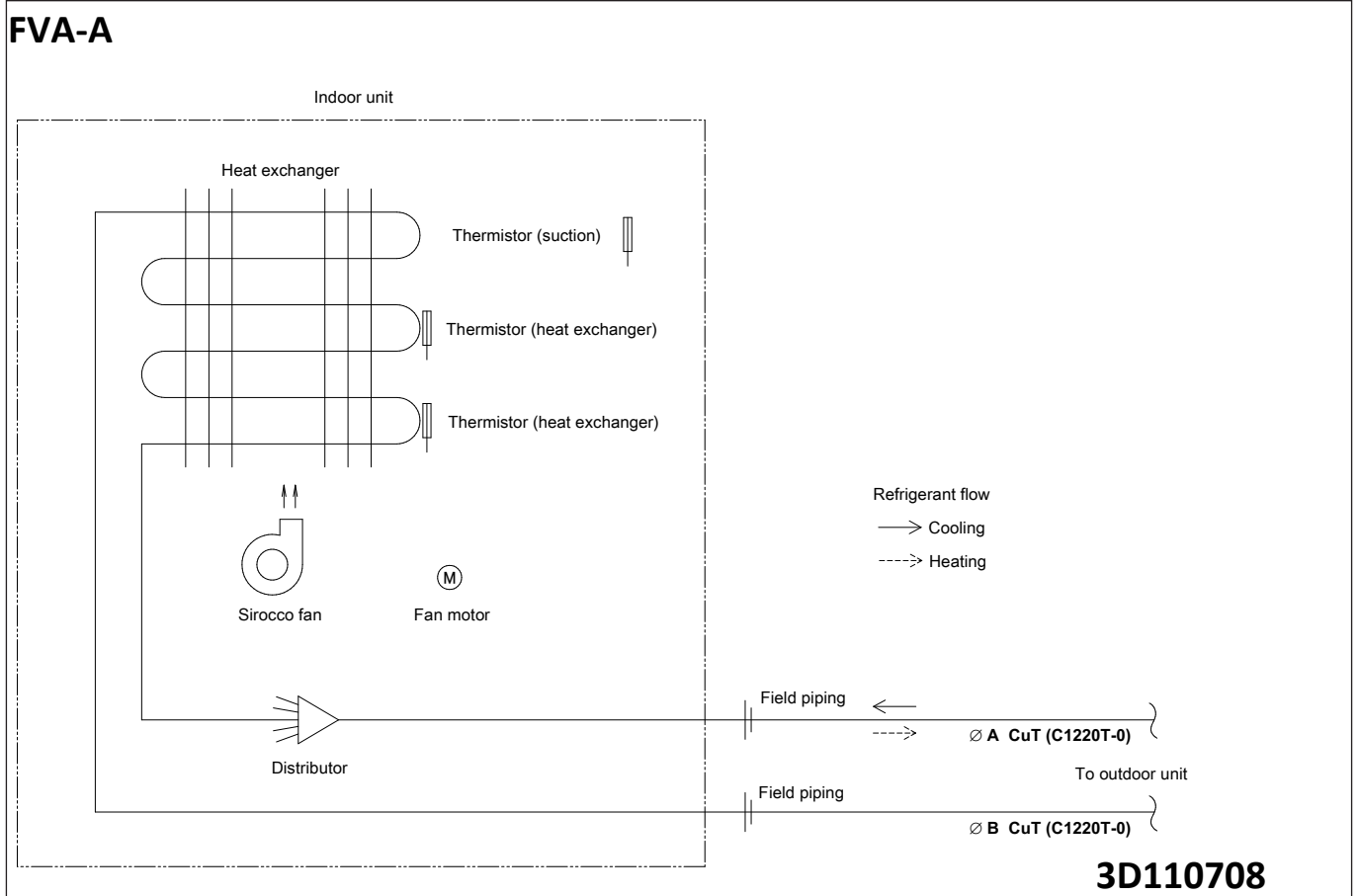
Item	Part name	Remark
1	Air suction grille	
2	Air filter	
3	Hole for piping	70 x 90mm oblong holes
4	Hole for piping	Knockout hole for recirculation piping or wiring of optional equipment $\varnothing 80$
5	Hole for piping	Knockout hole for recirculation piping or wiring of optional equipment $\varnothing 27$
6	Piping hole (rear)	80 x 130mm oblong holes
7	Piping hole (bottom)	126 x 130mm oblong holes
8	Liquid pipe	$\varnothing 9.5$ flared connection
9	Gas pipe	$\varnothing 15.9$ 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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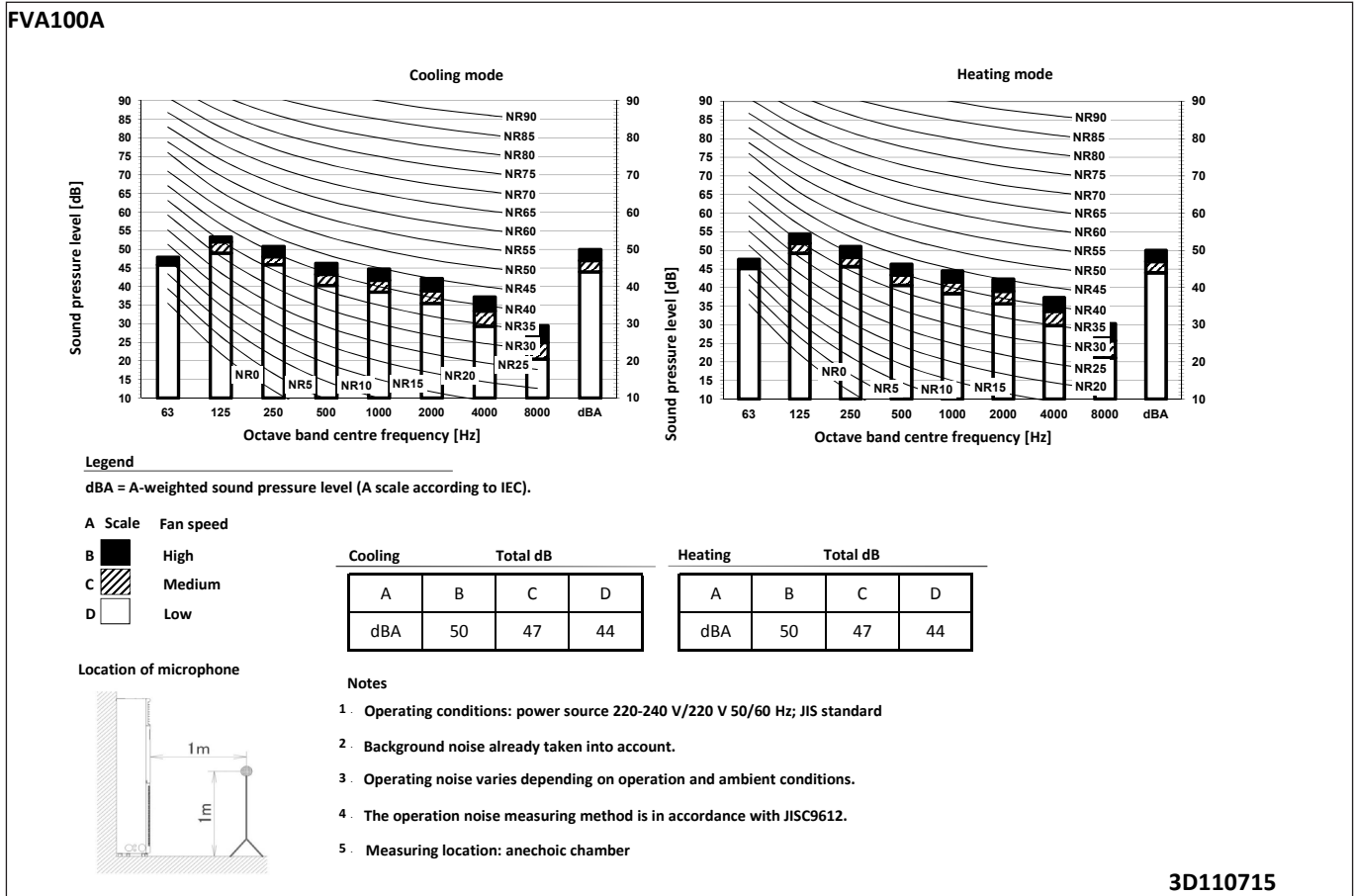
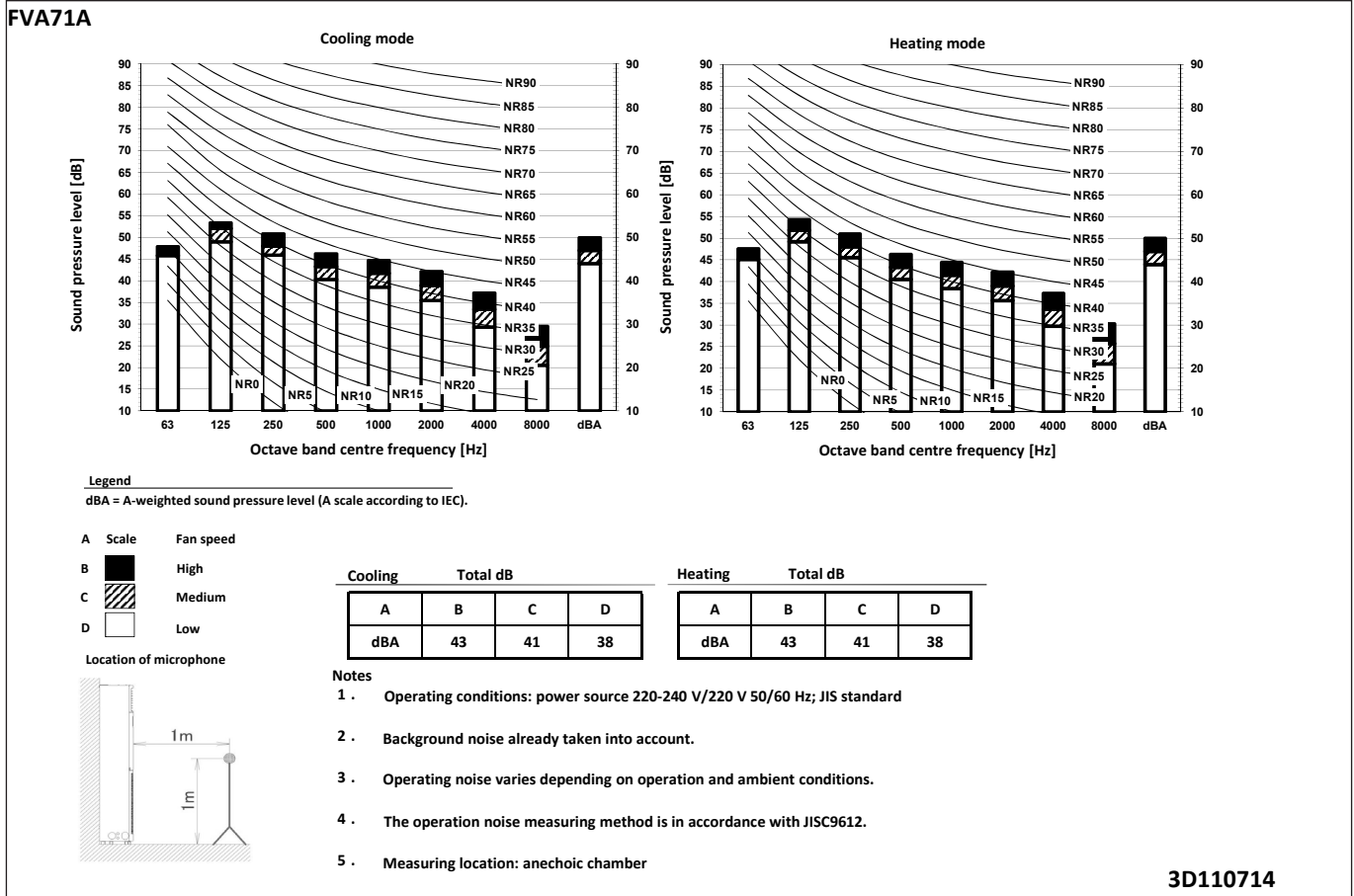
6 Piping diagrams

6 - 1 Piping Diagrams



8 Sound data

8 - 1 Sound Pressure Spectrum

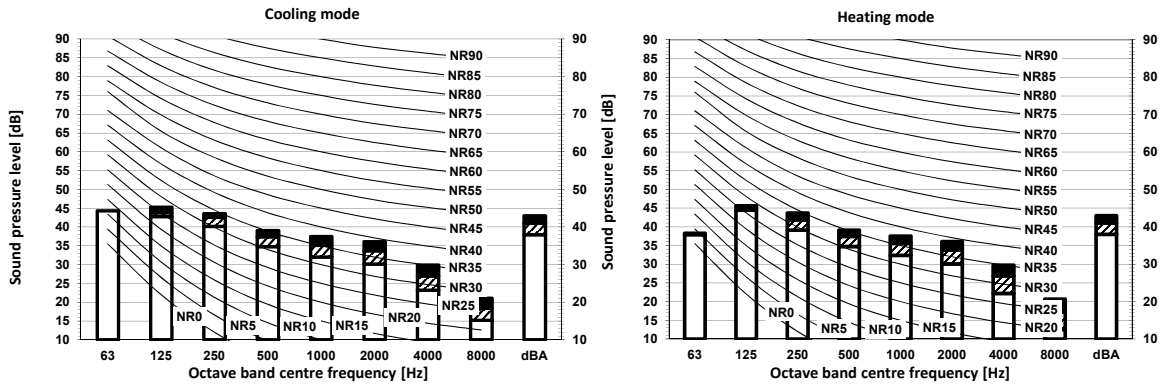


8 Sound data

8 - 1 Sound Pressure Spectrum

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FVA125A



Legend

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

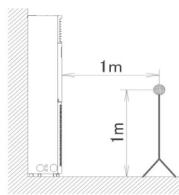
A Scale Fan speed

B High
C Medium
D Low

Cooling		Total dB	
A	B	C	D
dBA	51	48	46

Heating		Total dB	
A	B	C	D
dBA	51	48	46

Location of microphone

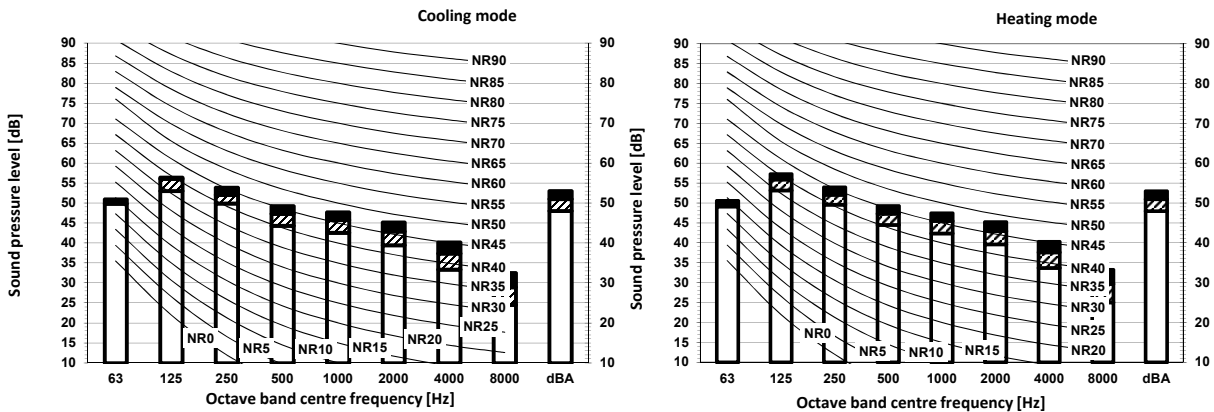


Notes

- 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).

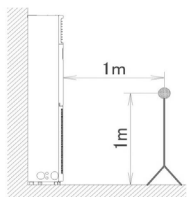
A Scale Fan speed

B High
C Medium
D Low

Cooling		Total dB	
A	B	C	D
dBA	53	51	48

Heating		Total dB	
A	B	C	D
dBA	53	51	48

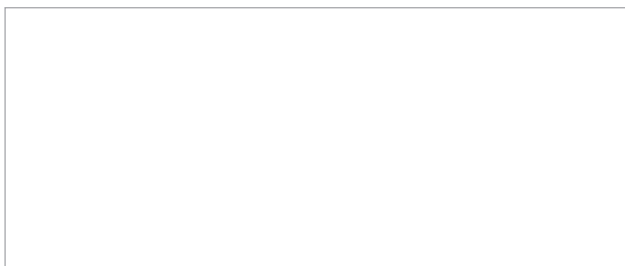
Location of microphone



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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