



Floor standing unit Air Conditioning Technical Data FVA-A



Table of contents

FVA-A

1	Features	4
	FVA-A	4
2	Specifications	5
3	Safety device settings	6
	Safety Device Settings	6
4	Options	7
	Options	7
5	Dimensional drawings	8
	Dimensional Drawings	8
6	Piping diagrams	9
	Piping Diagrams	9
7	Wiring diagrams	10
	Wiring Diagrams - Single Phase	10
8	Sound data	11
	Sound Pressure Spectrum	11

1 Features

1 - 1 FVA-A

- › 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



Home leave operation



Fan only



Auto cooling-heating changeover



Vertical auto swing



Fan speed steps



Dry programme



Air filter



Weekly timer



Wired remote control



Centralised control



Online controller via app



Auto-restart



Self diagnosis

2 Specifications

1 - 1 FVA-A

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		
	Phase x Voltage		V		DC280V	DC240-380		
Sound power level	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		9.5			
	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				BRC1D528 / BRC1E53A7 / BRC1E53B7 / BRC1E53C7			

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		Hz		50/60			
	Voltage		V		220-240/220			

See separate drawing for electrical data

3 Safety device settings

3 - 1 Safety Device Settings

FVA-A

3

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

4D110678A

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	DCS601CS1	✓	✓	✓	✓	✓
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 -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.
- ⑨ Only possible in combination with wired or wireless remote control (e.g. -BRC1E*, BRC1H*, BRC7FA*.)

3D110718B

5 Dimensional drawings

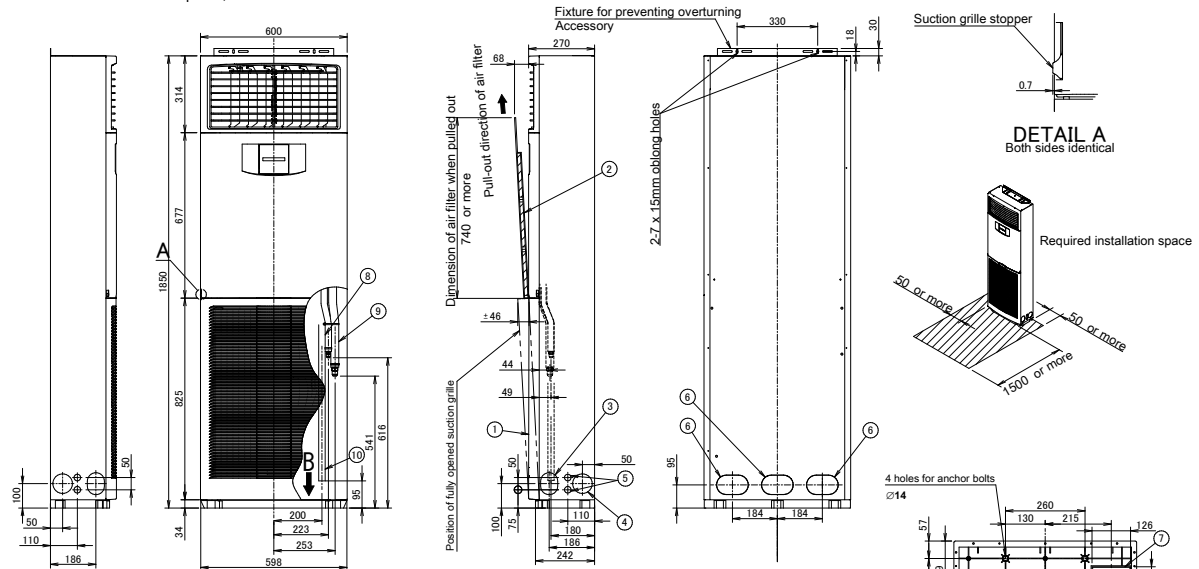
5 - 1 Dimensional Drawings

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.

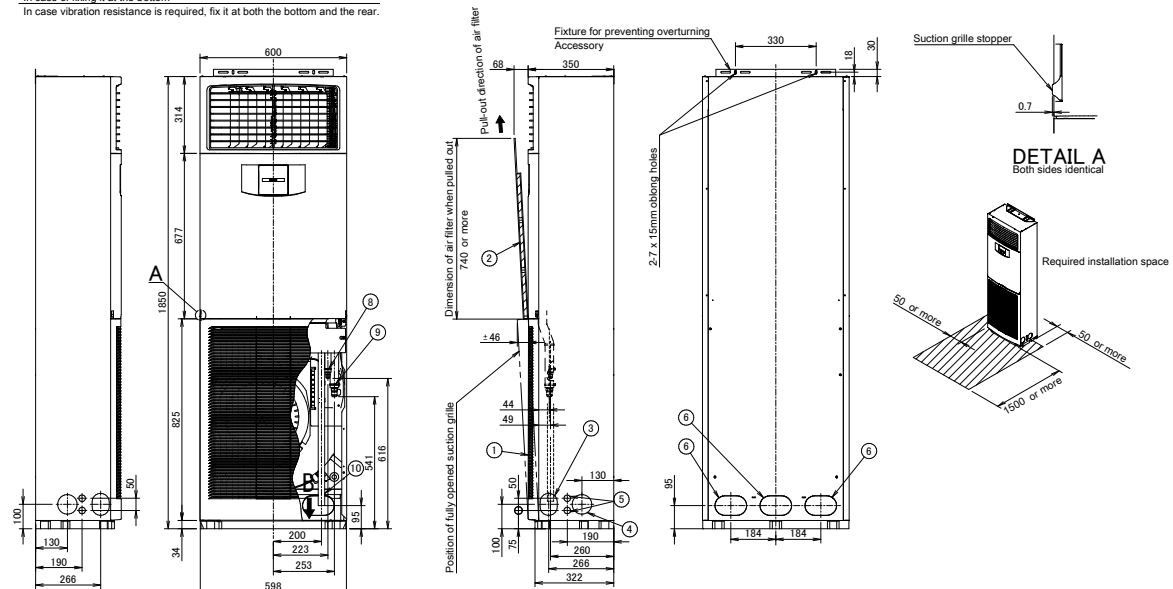
3D110397

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

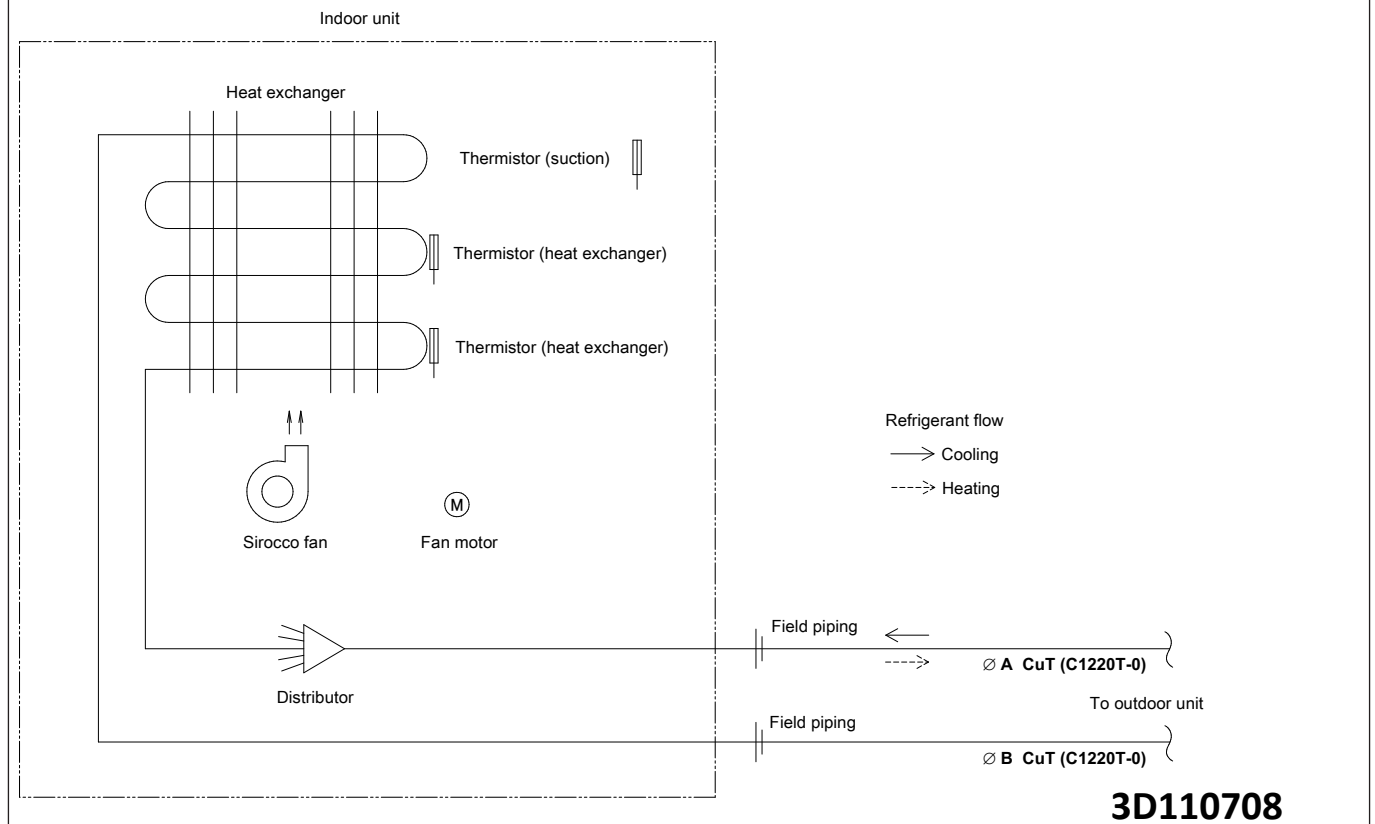
The unit nameplate is located on the switch box cover, inside the suction grille.

3D110703

6 Piping diagrams

6 - 1 Piping Diagrams

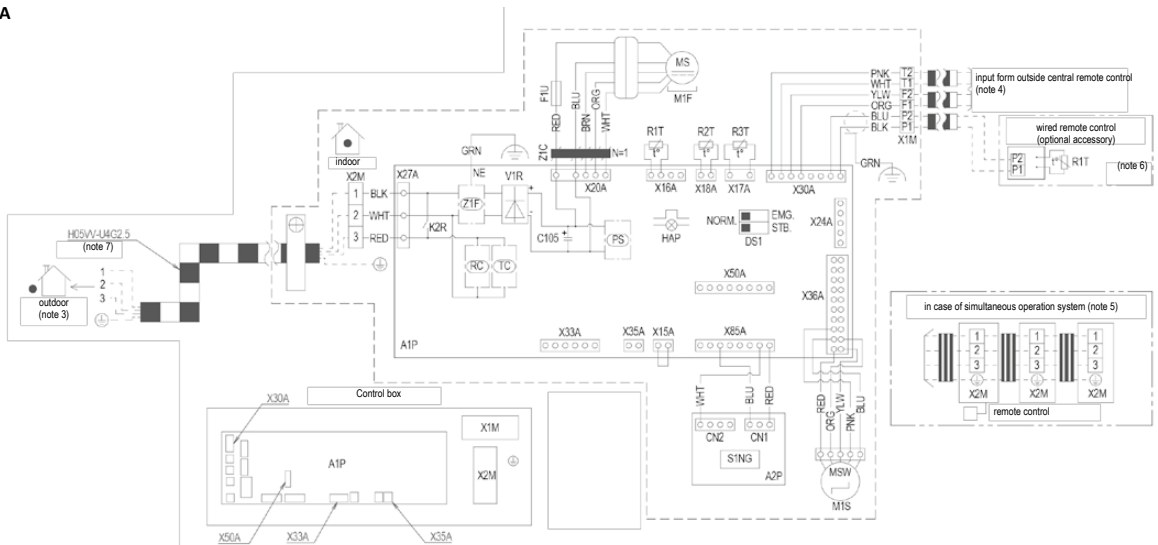
FVA-A



7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FVA-A



LEGEND

Indoor unit	
A1P	Printed circuit board
A2P	Printed circuit board
C105	Capacitor (M1F)
DS1	DIP Switch on PCB
HAP	Flashing lamp (service monitor: green)
K2R	Magnetic relay
M1F	Motor (indoor fan)
M1-4S	Motor (swing blade)

R1T	Thermistor (Air)
R2T-R3T	Thermistor (coil)
V1R	Diode bridge
X1M	Terminal block
X2M	Terminal block
Z1F	Noise filter
Z1C	Ferrite core
PS	Power supply circuit
RC	Signal receiver circuit

S1NG	Gas sensor
TC	Signal transmission circuit
X15A-XB5	Connector
ON1, CN2	Connector
F1U	Fuse (F, 500V, 4A)
Connector for optional parts	
X24A	Connector (wireless remote control)
X35A	Connector (power supply for adapter)
X33A	Connector (adapter for wiring)

Wired remote control	
R1T	Thermistor (air)
Wire colors	
BLK:	black
BLU:	blue
YLV:	yellow
BRN:	brown
RED:	red
WHT:	white
HRN:	green
PNK:	pink

NOTES

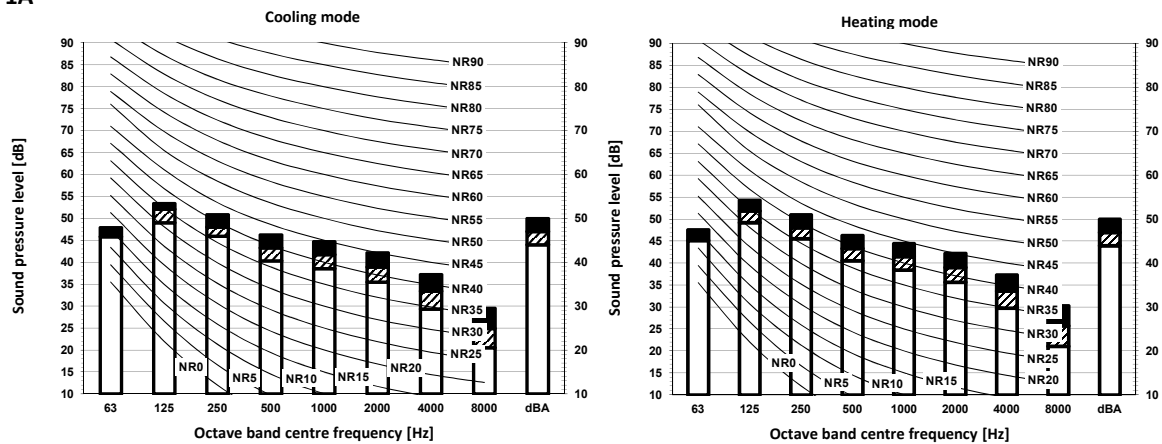
- Terminal block: ; connector: ; Field wiring: ; short circuit connector:
- In case of simultaneous operation indoor unit system, see the indoor unit wiring only.
- For the detail, see wiring diagram attached to outdoor unit.
- In case of using central remote control, connect it to the unit in accordance 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 control.
- Shows only in case of protection piping, use H07RN-F in case of no protection.

3D109960

8 Sound data

8 - 1 Sound Pressure Spectrum

FVA71A

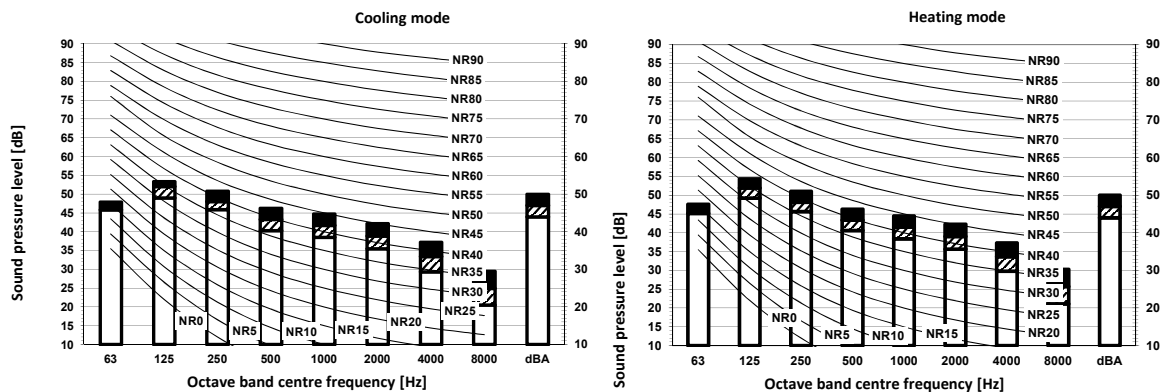


Cooling				Heating			
Total dB				Total dB			
A	B	C	D	A	B	C	D
dBA	43	41	38	dBA	43	41	38

- 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

3D110714

FVA100A



Cooling				Heating			
Total dB				Total dB			
A	B	C	D	A	B	C	D
dBA	50	47	44	dBA	50	47	44

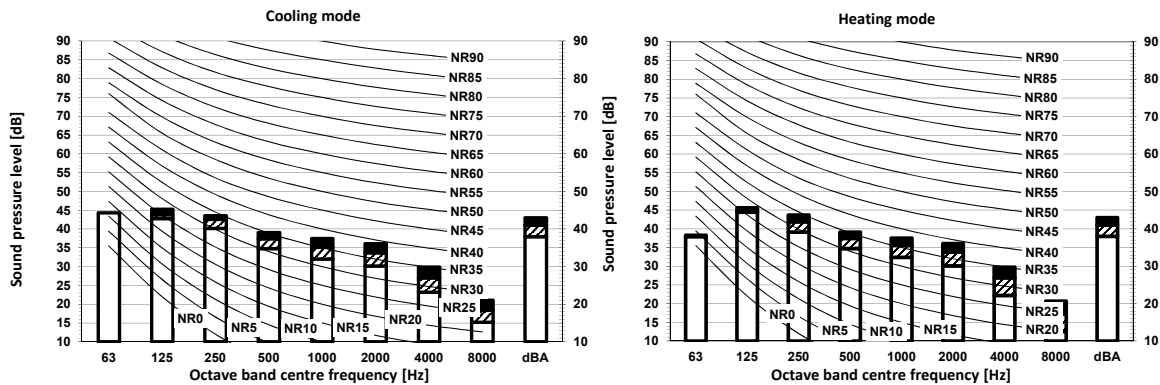
- Notes
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
 - Background noise already taken into account.
 - Operating noise varies depending on operation and ambient conditions.
 - The operation noise measuring method is in accordance with JISC9612.
 - Measuring location: anechoic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

3D110715

8 Sound data

8 - 1 Sound Pressure Spectrum

FVA125A



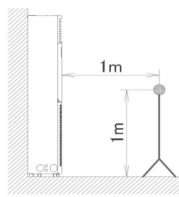
Legend

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

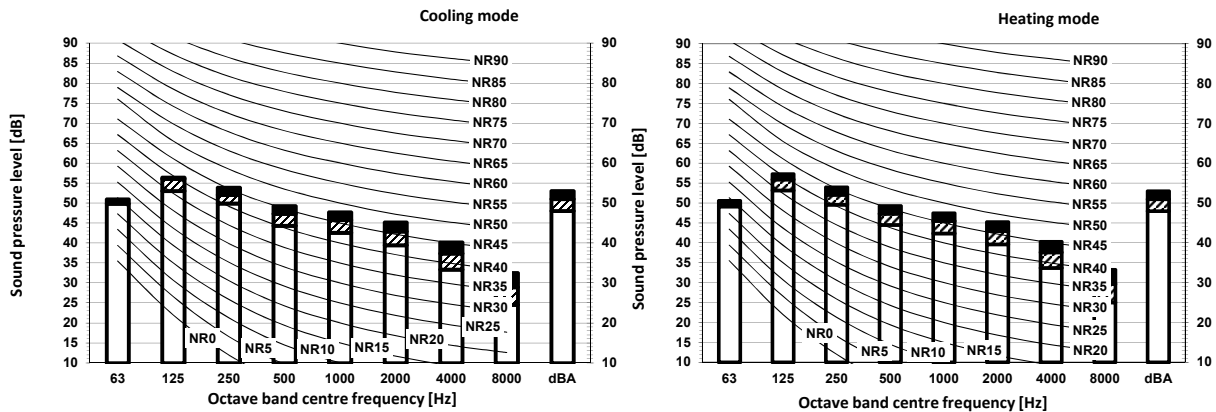
Heating Total dB			
A	B	C	D
dBA	51	48	46

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

3D110716

FVA140A



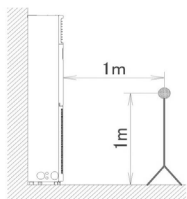
Legend

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

A Scale Fan speed

B High
C Medium
D Low

Location of microphone



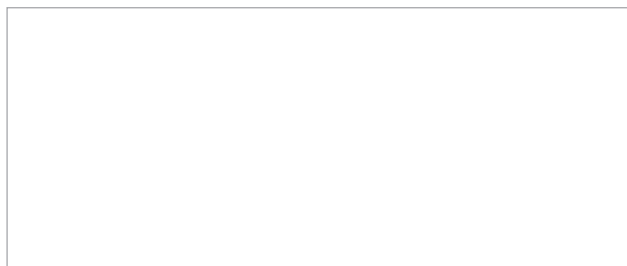
Cooling Total dB			
A	B	C	D
dBA	53	51	48

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

3D110717



EEDEN20

06/2020



The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.