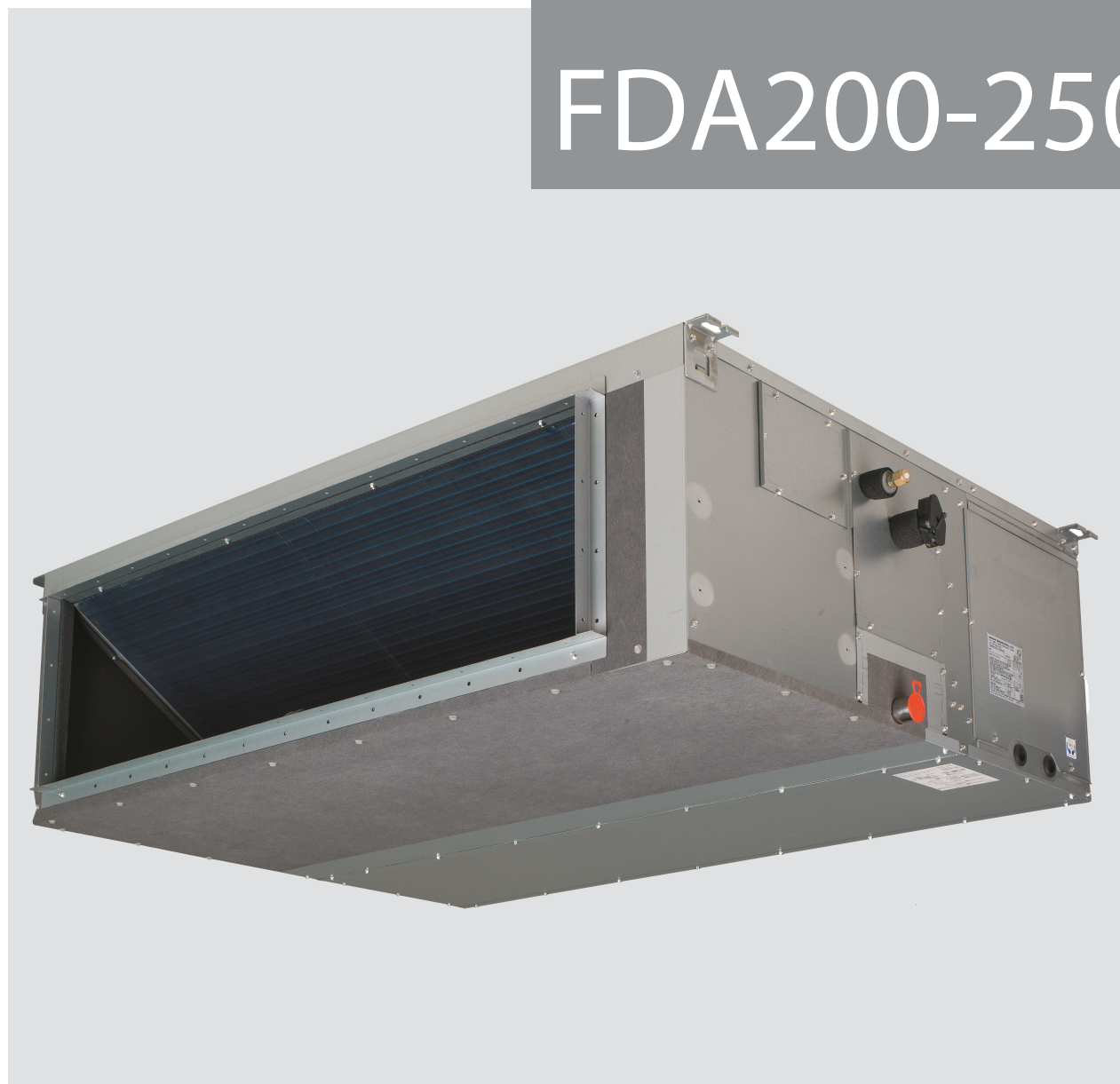


Air Conditioning
Technical Data

FDA200-250A



- > FDA200AXVEB
- > FDA250AXVEB

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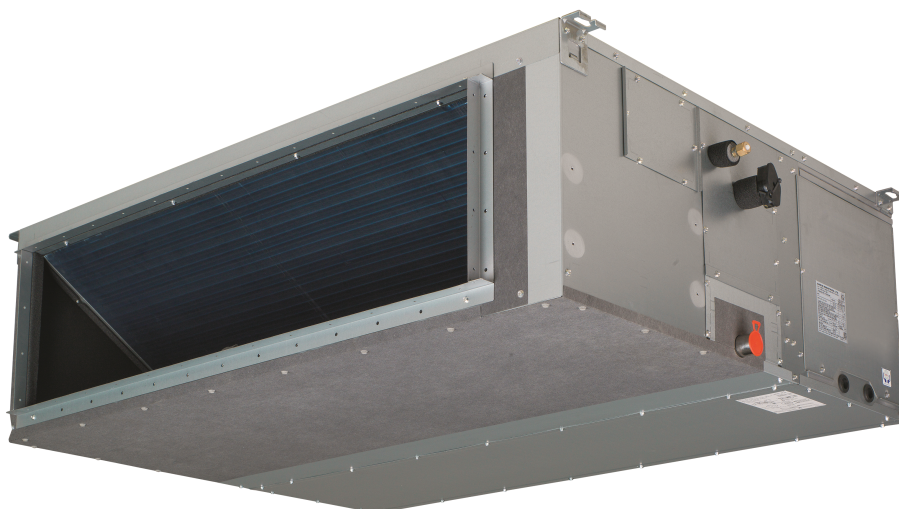
FDA-A

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1 Features

ESP up to 250 Pa, ideal for large sized spaces

- High external static pressure up to 250Pa facilitates extensive duct and grille network
- 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
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Built-in drain pump (625mm) increases the flexibility and installation speed (standard for FDA125, optional for FDA200-250)
- Standard supplied suction filter simplifies installation
- Up to 26.4kW in heating mode



Home leave operation



Fan only



Auto cooling-heating changeover



Fan speed steps



Dry programme



Air filter



Weekly timer



Wired remote control



Centralised control



Online controller via app



Auto-restart



Self diagnosis



Drain pump kit



Twin/triple/double twin application

2 Specifications

2-1 Technical Specifications					FDA200A		FDA250A	
Casing	Colour				Unpainted			
	Material				Galvanised steel plate			
Dimensions	Unit	Height/Width/Depth		mm	470/1,490/1,100			
	Packed unit	Height/Width/Depth		mm	1,362/1,746/519			
Weight	Unit			kg	104		115	
	Packed unit			kg	124		135	
Packing	Material				Carton + OSB board + EPS			
Heat exchanger	Inside length			mm	1,260			
	Outside length			mm	1,260			
	Rows	Quantity			2		3	
	Fin pitch			mm	1.40			
	Passes	Quantity			16			
	Face area			m²	0.850			
	Stages	Quantity			32			
	Empty tubeplate hole	Quantity			0			
	Tube type				ø7 Hi-XU			
	Fin	Type			Raise Lance			
Air filter	Type				Resin net			
Fan	Type				Sirocco fan			
	Quantity				2			
	Air flow rate	Cooling	High	m³/min	64.0		69.0	
			Medium	m³/min	50		56	
			Low	m³/min	36.0		43.0	
		Heating	High	m³/min	64.0		69.0	
			Medium	m³/min	50.0		56.0	
			Low	m³/min	36.0		43.0	
	External static pressure	High		Pa	250			
Nom.		Pa	62					
Fan motor	Quantity				1			
	Model				DMUD8C4DK		ERC8804ADS	
	Drive				Direct drive			
	Speed	Steps			3			
	Output	Rated		W	648		750	
	Full load amps (FLA)	Cooling		A	4.0		4.3	
		Heating		A	4.0		4.3	
Sound power level	Cooling			dBA	69.0		71.0	
Sound pressure level	Cooling	High/Medium/Low		dBA	43.0/39.0/36.0		44.0/40.0/37.0	
	Heating	High/Medium/Low		dBA	43.0/39.0/36.0		44.0/40.0/37.0	
Control systems	Wired remote control				BRC1H519W/S/K			
Refrigerant	Type				R-32 / R-410A			
Piping connections	Liquid	Type/OD		mm	Flare connection/9,5			
	Gas	Type/OD		mm	Flange/19.1		Flange/22.2	
	Drain				BSP1			
	Heat insulation				Both liquid and gas pipes			
Safety devices	Item	01/02			Fuse/Fan driver overload protector			

Standard Accessories : Operation manual; Quantity : 1;

Standard Accessories : Installation manual; Quantity : 1;

Standard Accessories : Gas connection pipe; Quantity : 1;

Standard Accessories : Wire clamp material; Quantity : 1;

2 Specifications

Standard Accessories : Washer; Quantity : 12;

Standard Accessories : Screw+Washer; Quantity : 45;

Standard Accessories : Screws; Quantity : 2;

2

2-2 Electrical Specifications			FDA200A	FDA250A
Power supply	Phase		1~	
	Frequency	Hz	50/60	
	Voltage	V	220-240/220	

3 Options

3 - 1 Options

FDA-A

Option kit	Product name	Availability
		FDA200AXVEB FDA250AXVEB
Wired remote control	BRC1H519W/S/K	✓
Wireless remote control -H/P-	BRC4C65	✓
Simplified remote control (with operation mode selector button)	BRC2E52C7 ①	✓
Simplified remote control (without operation mode selector button)	BRC3E52C7 ①	✓
Optional PCB for external electric heaters, humidifiers and/or hour meters	EKRP1C13	✓
Adaptor for wiring (interlock for fresh air intake fan)	KRP1C65	✓
Wiring adaptor for electrical appendices	KRP4A51 ②	✓
Wiring adaptor for electrical appendices	KRP2A51 ②	✓
Central remote control	DCS302C51	✓
Unified ON/OFF controller	DCS301B51	✓
Schedule timer	DST301B51	✓
Digital input adaptor	BRP7A54 ⑤	✓
External temperature sensor option kit	KRCS01-8B	✓
Long-life replacement filter	BAFL502A250 ④	✓
Filter chamber	BDD500B250	✓
Drain pump kit	BDU510B250VM	✓
Wi-Fi adaptor for smartphones	BRP069B82 ③	✓

①: 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.

②: This option cannot be combined with -BRP069B82-.

③: This option cannot be combined with -KRP4A51, KRP2A51-.

: Requires -BDD500B250-

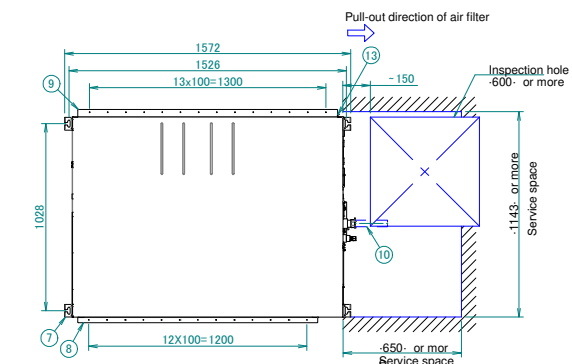
⑤: Only possible in combination with remote control -BRC2/3E52C7, BRC1H519W/S/K-.

3D124508

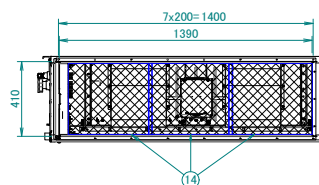
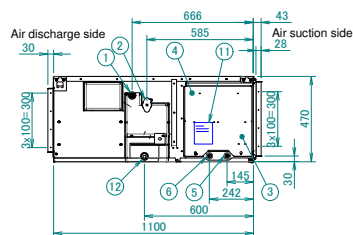
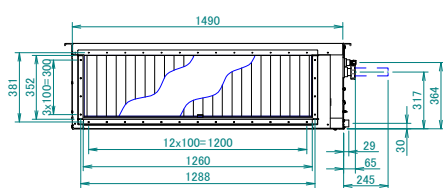
4 Dimensional drawings

4 - 1 Dimensional Drawings

FDA-A



Number	Part name	Description
1	Liquid pipe connection port	Flare connection
2	Gas pipe connection port	Brazed connection
3	Grounding terminal	Located inside of the unit
4	Control box	
5	Power supply wiring intake	
6	Control wiring intake	
7	Hook	M10
8	Air outlet flange	
9	Air inlet flange with air filter	
10	Accessory pipe	Standard accessory
11	Manufacturer label	
12	Drain pipe connection	.1 inch- BSP (female thread)
13	Maintenance cover	Air filter
14	Air filter	



Indoor unit	Piping connections Ø	
	Gas pipe	Liquid pipe
FDA200AXVEB	Φ19.1 Accessory pipe	Φ9.5
FDA250AXVEB	Φ22.2 Accessory pipe	Φ9.5

Notes

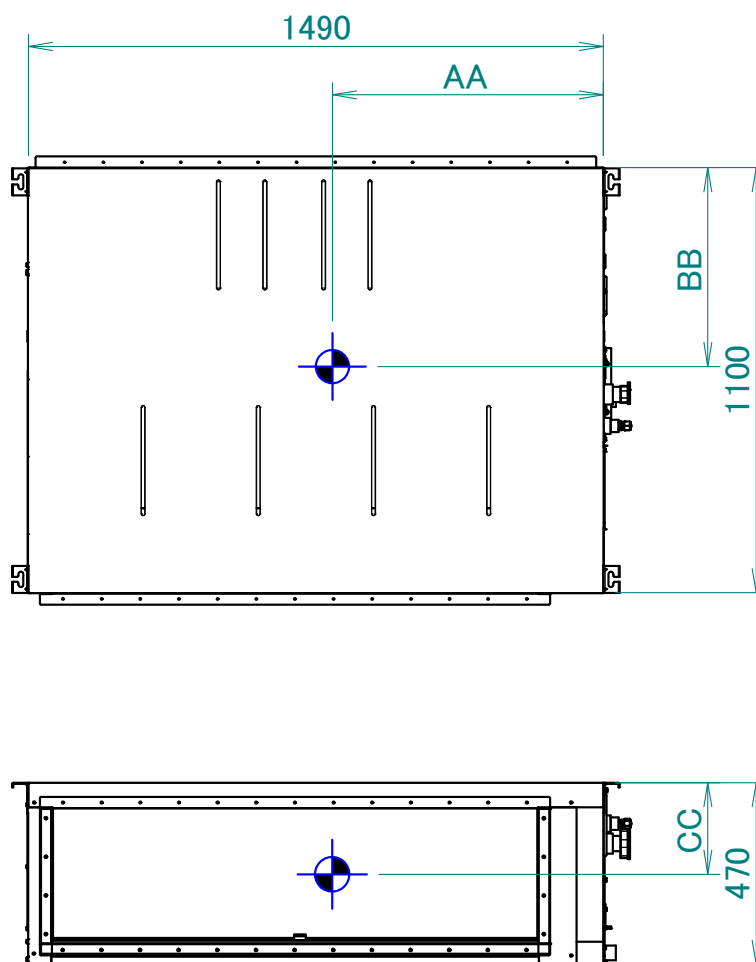
1. The unit nameplate is located on the control box cover.

2D123907

5 Centre of gravity

5 - 1 Centre of Gravity

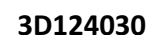
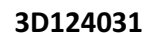
FDA-A



Model	AA	BB	CC
FDA200AXVEB	680	500	235
FDA250AXVEB	700	510	255

4D123974

6 - 1 Piping Diagrams

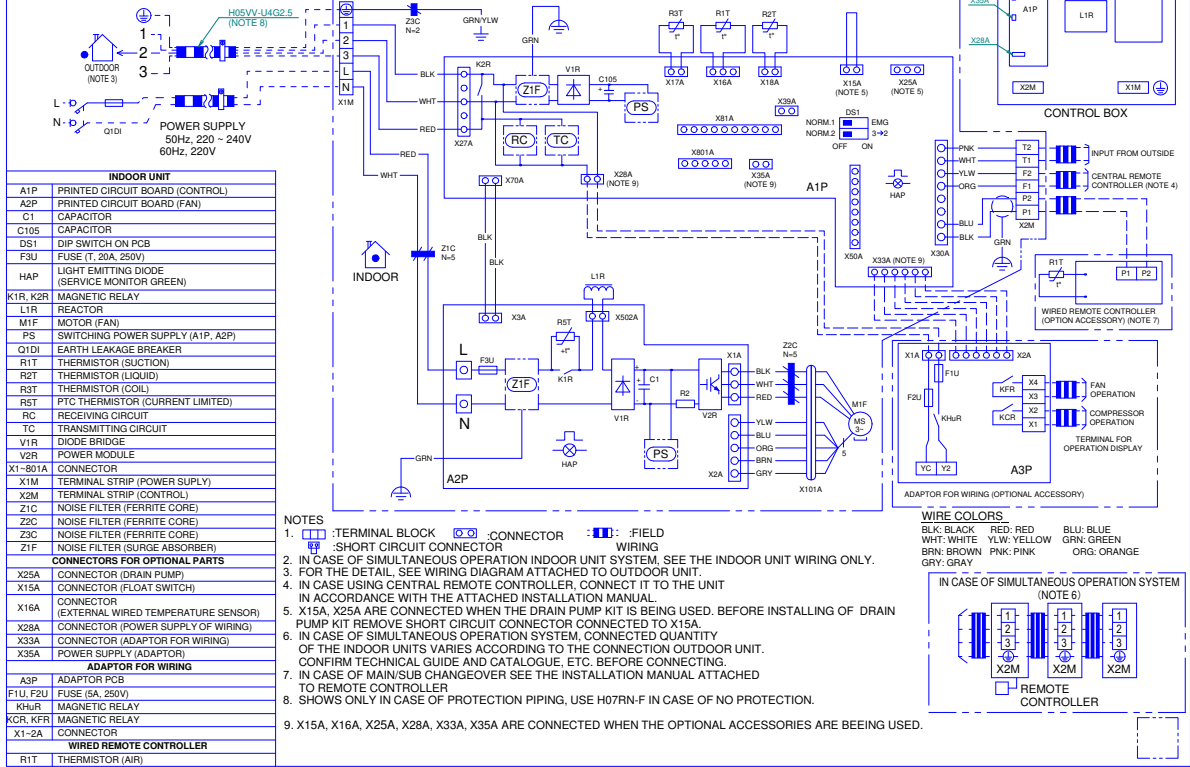


7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FDA-A

WIRING DIAGRAM



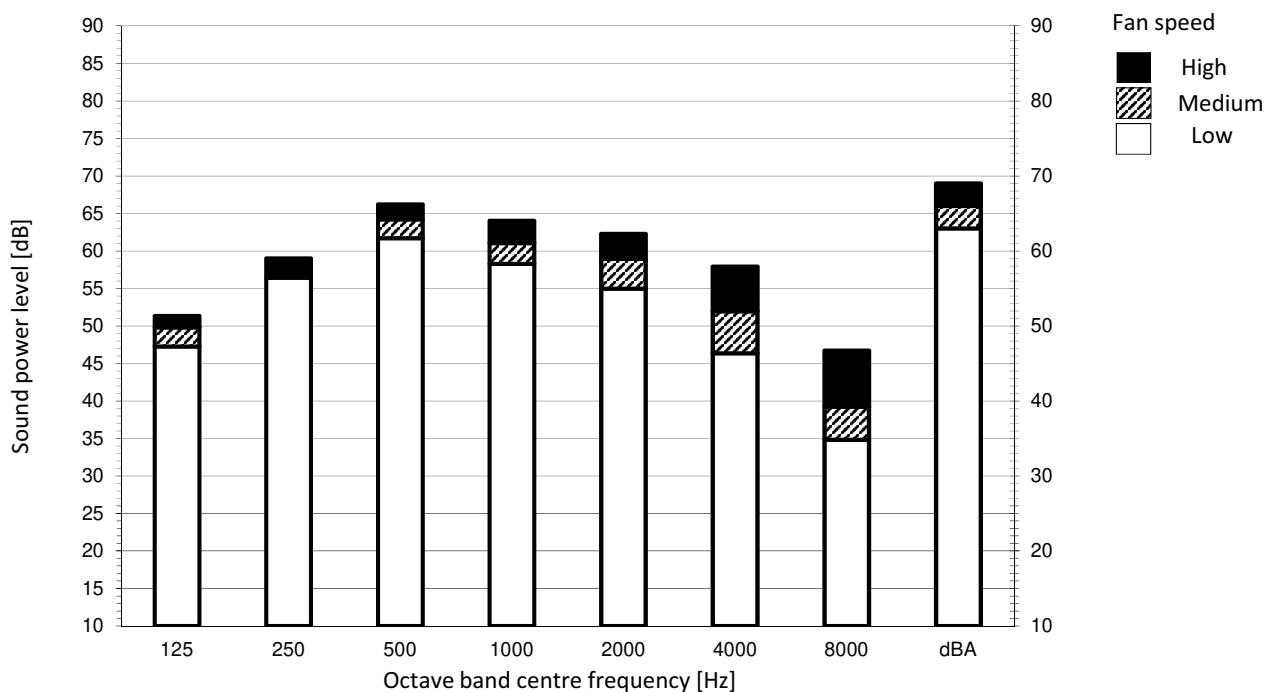
3D123436B

8 Sound data

8 - 1 Sound Power Spectrum

FDA200A

Cooling mode



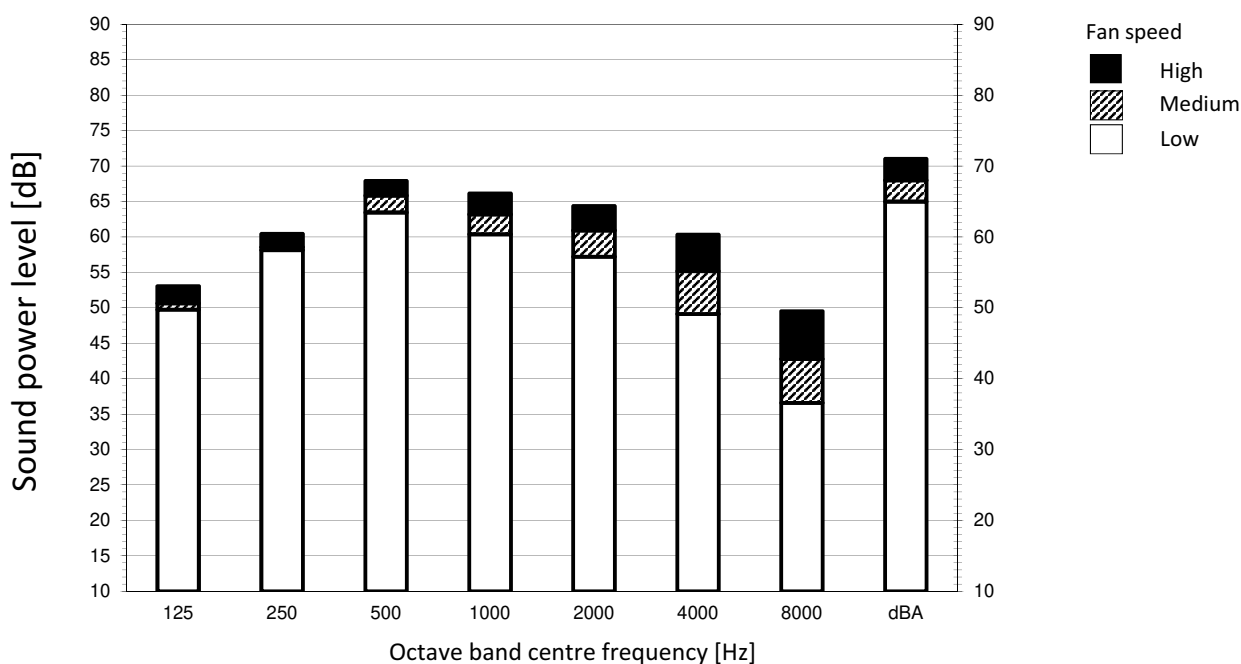
Notes

- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic pressure 0 dB = 20 μ Pa
- 3 Measured according to ISO 3744

3D124073

FDA250A

Cooling mode



Notes

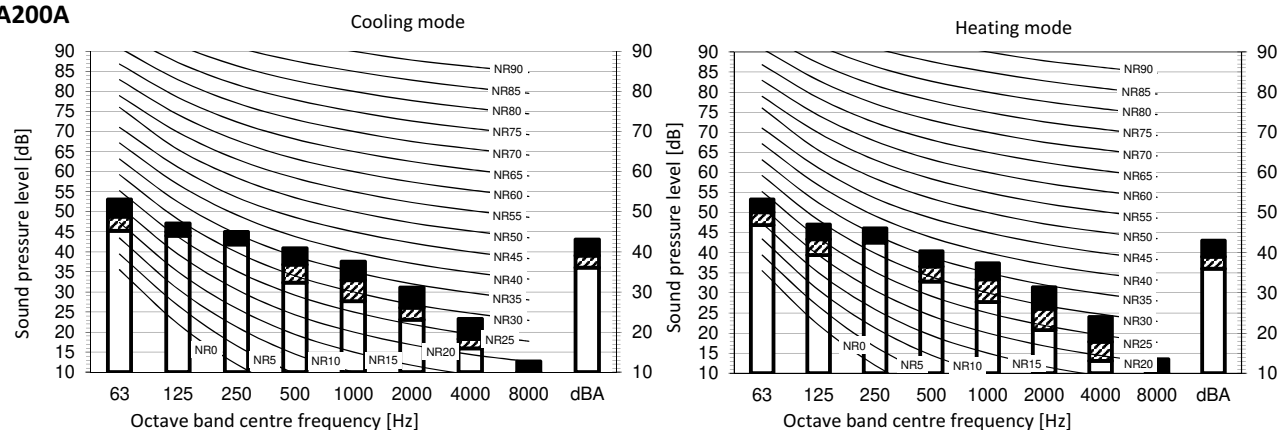
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic pressure 0 dB = 20 μ Pa
3. Measured according to ISO 3744

3D124074

8 Sound data

8 - 2 Sound Pressure Spectrum

FDA200A



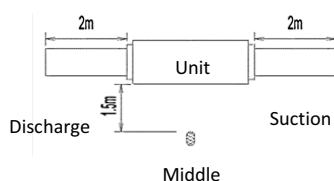
Legend

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	43,0	39,0	36,0

Heating Total dB

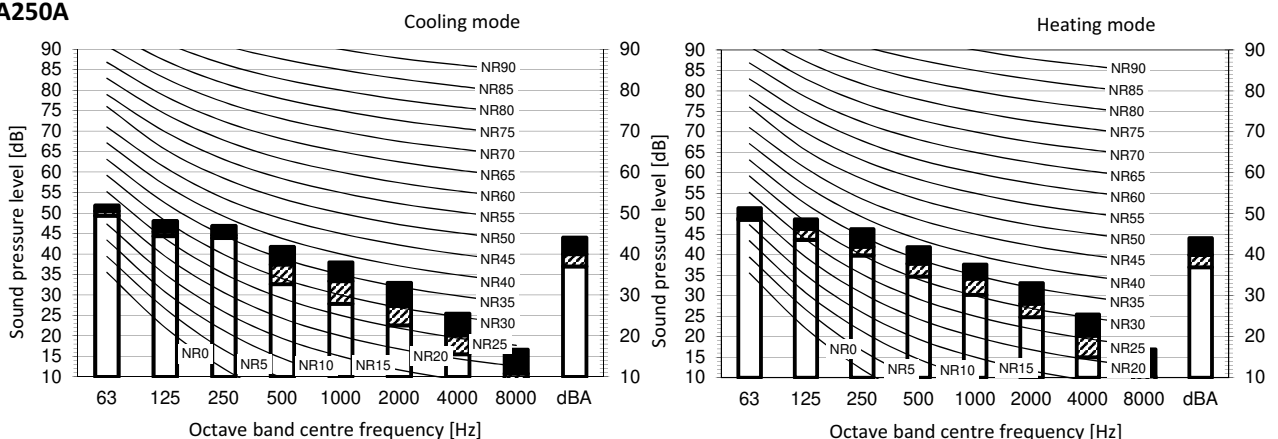
A	B	C	D
dBA	43,0	39,0	36,0

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

3D124075

FDA250A



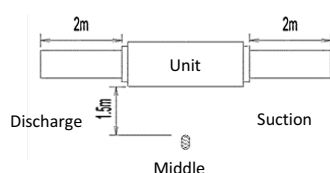
Legend

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	44,0	40,0	37,0

Heating Total dB

A	B	C	D
dBA	44,0	40,0	37,0

Notes

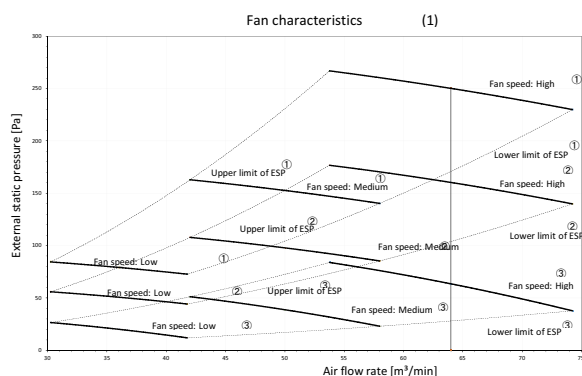
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D124076

9 Fan characteristics

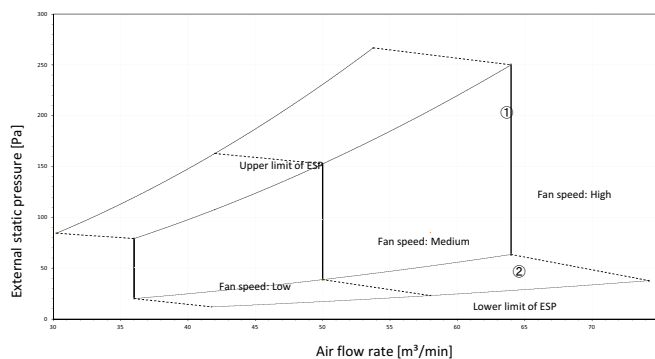
9 - 1 Fan Characteristics

FDA200A

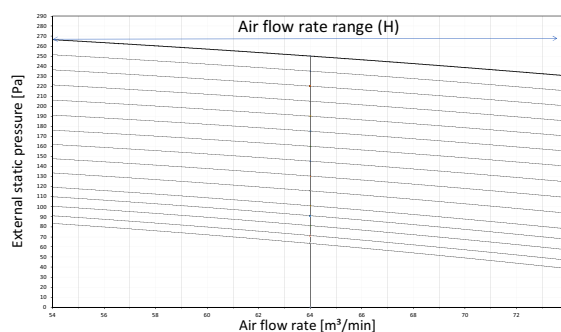


Mark		ESP [Pa]
①	Maximum	250
②	-	160
③	Standard	62

Fan characteristics (3)
Air flow auto adjustment



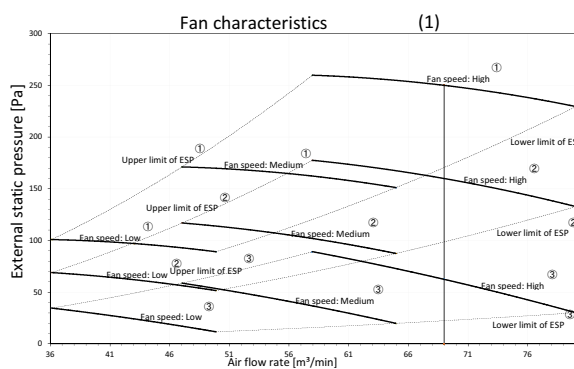
Fan characteristics (2)
Field setting with remote control



- ① Upper limit of ESP by air flow auto adjustment
- ② Lower limit of ESP by air flow auto adjustment

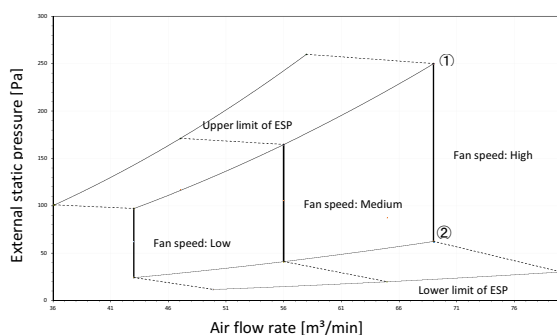
4D124460

FDA250A

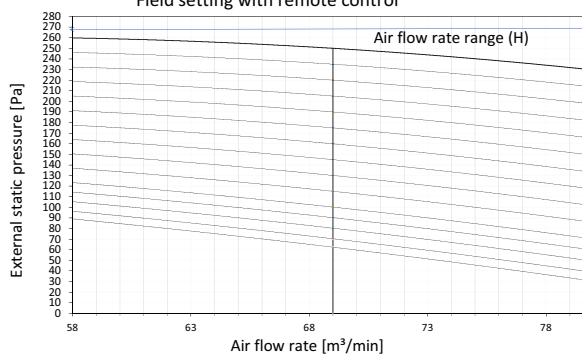


Mark		ESP [Pa]
①	Maximum	250
②	-	160
③	Standard	62

Fan characteristics (3)
Air flow auto adjustment



Fan characteristics (2)
Field setting with remote control



- ① Upper limit of ESP by air flow auto adjustment
- ② Lower limit of ESP by air flow auto adjustment

4D124478

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