



Slim concealed ceiling
unit
Technical data book
FXDA-A

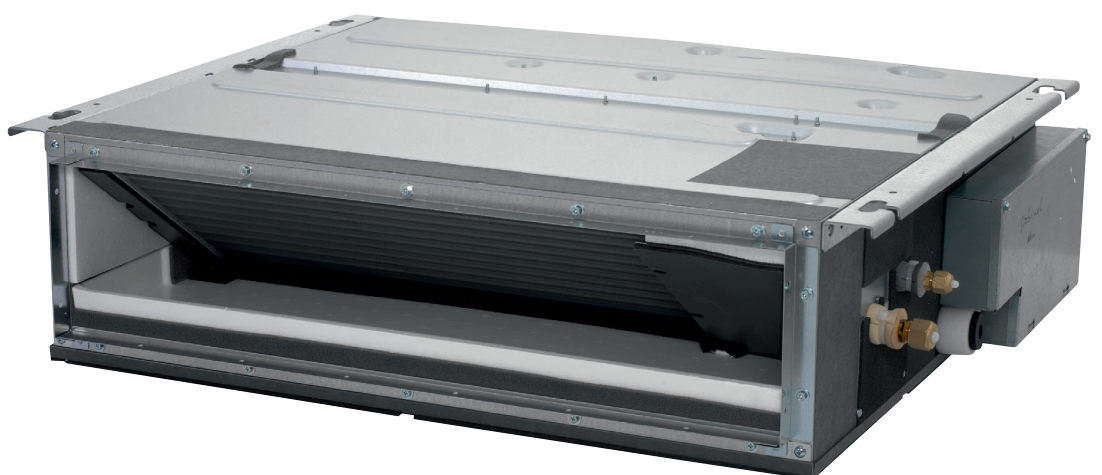


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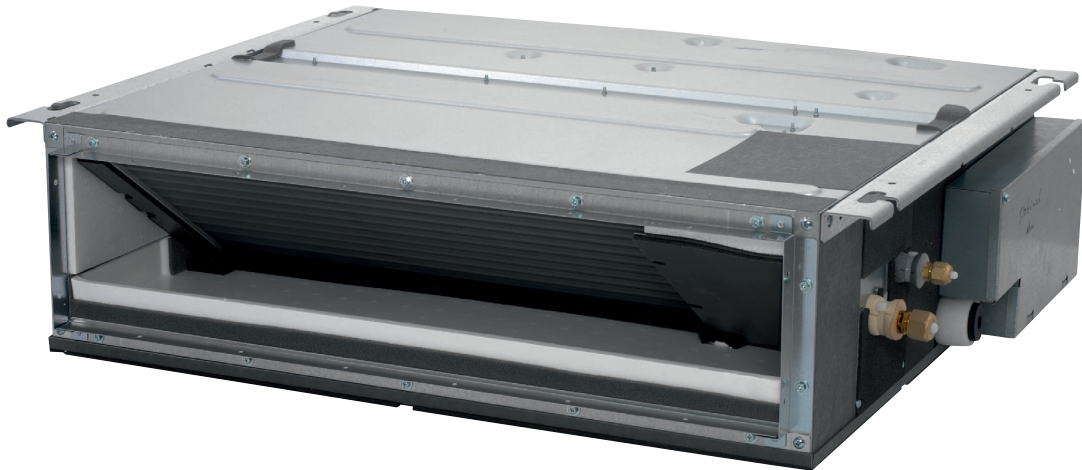
FXDA-A


















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1 Features

1 - 1 FXDA-A

- › Discretely concealed in the wall: only the suction and discharge grilles are visible
- › Auto cleaning filter option ensures maximum efficiency, comfort and reliability by regular filter cleaning
- › Optimised design for R-32 refrigerant
- › Medium external static pressure up to 44Pa facilitates unit use with flexible ducts of varying lengths
- › Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- › 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- › Standard drain pump with 600mm lift increases flexibility and installation speed
- › Flexible installation, as the air suction direction can be altered from rear to bottom suction



- | | | | | | | | | |
|---|--|---|--|--|---|--|---|---|
| 
Auto-cleaning filter | 
Inverter | 
Home leave operation | 
Fan only | 
Auto cooling-heating changeover | 
Whisper quiet | 
Fan speed steps | 
Dry programme | 
Air filter |
| 
Weekly timer | 
Infrared remote control | 
Wired remote control | 
Centralised control | 
Auto-restart | 
Self diagnosis | 
Multi tenant | 
Drain pump kit | |

2 Specifications

1 - 1 FXDA-A

Technical specifications				FXDA10A	FXDA15A	FXDA20A	FXDA25A	FXDA32A	FXDA40A		
Cooling capacity	Sensible capacity	At high fan speed	kW	0.80	1.20	1.50	1.90	2.50	3.00		
		At medium fan speed	kW	0.80	1.00	1.30	1.70	2.10	2.60		
		At low fan speed	kW	0.70	0.90	1.10	1.50	1.80	2.20		
	Latent capacity	At high fan speed	kW	0.30	0.50	0.70	0.90	1.10	1.50		
		At medium fan speed	kW	0.20	0.50	0.60	0.80	1.00	1.30		
		At low fan speed	kW	0.20	0.50	0.60	0.70	0.90	1.20		
Total capacity	At high fan speed	kW	1.10	1.70	2.20	2.80	3.60	4.50			
	At medium fan speed	kW	1.00	1.50	1.90	2.50	3.10	3.90			
	At low fan speed	kW	0.90	1.40	1.70	2.20	2.70	3.40			
Heating capacity	Total capacity	At high fan speed	kW	1.30	1.90	2.50	3.20	4.00	5.00		
		At medium fan speed	kW	1.20	1.60	2.10	2.70	3.40	4.20		
		At low fan speed	kW	1.10	1.50	1.80	2.30	2.90	3.60		
Power input - 50Hz	Cooling	At high fan speed	kW	0.042	0.057	0.068		0.052	0.075		
		At medium fan speed	kW	0.040	0.054	0.058		0.060	0.062		
		At low fan speed	kW	0.039	0.050	0.048		0.052			
	Heating	At high fan speed	kW	0.042	0.057	0.068		0.052	0.075		
		At medium fan speed	kW	0.040	0.054	0.058		0.060	0.062		
		At low fan speed	kW	0.039	0.050	0.048		0.052			
Power input - 60Hz	Cooling	At high fan speed	kW	0.042	0.057	0.068		0.052	0.075		
	Heating	At high fan speed	kW	0.042	0.057	0.068		0.052	0.075		
Dimensions	Unit	Height	mm	200							
		Width	mm	750						950	
		Depth	mm	620							
	Packed unit	Height	mm	260							
		Width	mm	922						1,122	
		Depth	mm	768							
Weight	Unit		kg	22.0		23.0		26.5			
	Packed unit		kg	25.0		26.0		29.0			
Casing	Colour	Not painted (galvanised)									
	Material	Galvanised steel									
Required ceiling void >		mm	240								
Heat exchanger	Inside length		mm	500					700		
	Rows	Quantity		2					3		
	Fin pitch		mm	1.50							
	Passes	Quantity		1		3		6			
	Face area		m ²	0.063		0.126		0.176			
	Stages	Quantity		6		12					
	Empty tubeplate hole	Quantity		-					4		
	Tube type	ø7 Hi-XD									
	Fin	Type	Symmetric waffle louvre								
	Fan	Type	Sirocco fan								
Quantity				2					3		
Air flow rate - 50Hz		Cooling	At high fan speed	m ³ /min	5.2	6.5	8.0		10.5		
			At medium fan speed	m ³ /min	4.9	6.2	7.2		9.5		
			At low fan speed	m ³ /min	4.7	5.8	6.4		8.5		
		Heating	At high fan speed	m ³ /min	5.2	6.5	8.0		10.5		
			At medium fan speed	m ³ /min	4.9	6.2	7.2		9.5		
			At low fan speed	m ³ /min	4.7	5.8	6.4		8.5		
Air flow rate - 60Hz		Cooling	At high fan speed	cfm	184	230	283		371		
			At medium fan speed	cfm	173	219	254		335		
			At low fan speed	cfm	166	205	226		300		
		Heating	At high fan speed	cfm	184	230	283		371		
			At medium fan speed	cfm	173	219	254		335		
			At low fan speed	cfm	166	205	226		300		
Sound power level	Cooling	At high fan speed	dBA	48	50	51		52			
		At medium fan speed	dBA	29.0	32.0	33.0		34.0			
		At low fan speed	dBA	28.0		31.0		32.0			
	Heating	At high fan speed	dBA	26.0		27.0		28.0			
		At high fan speed	dBA	29.0	32.0	33.0		34.0			
		At medium fan speed	dBA	28.0		31.0		32.0			
Fan motor	Output	Max	W	44					65		
		Quantity		1							
		Output	Max	W	44					65	

2 Specifications

1 - 1 FXDA-A

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Technical specifications			FXDA10A	FXDA15A	FXDA20A	FXDA25A	FXDA32A	FXDA40A
Refrigerant	Type		R-32					
	GWP		675.0					
	Control		Electronic expansion valve					
Piping connections	Liquid	Type	Flare connection					
		OD	mm	6.35				
	Gas	Type	Flare connection					
		OD	mm	9.52				
Drain		VP20 (I.D. 20/O.D. 26)						
Heat insulation		Both liquid and gas pipes						
Drain-up height		mm	600					
Air filter	Type		Removable / washable					
Safety devices	Item	01	PC board fuse					
		02	Fan motor overcurrent protector					
		03	Fan motor thermal protection					
Control systems	Infrared remote control		BRC4C65					
	Wired remote control		BRC1H52W/S/K					

Technical specifications				FXDA50A		FXDA63A	
Cooling capacity	Sensible capacity	At high fan speed	kW	3.80		4.80	
		At medium fan speed	kW	3.20		3.90	
		At low fan speed	kW	2.70		3.10	
	Latent capacity	At high fan speed	kW	1.80		2.30	
		At medium fan speed	kW	1.50		1.90	
		At low fan speed	kW	1.30		1.60	
Total capacity	At high fan speed	kW	5.60		7.10		
	At medium fan speed	kW	4.70		5.80		
	At low fan speed	kW	4.00		4.70		
Heating capacity	Total capacity	At high fan speed	kW	6.30		8.00	
		At medium fan speed	kW	5.10		6.30	
		At low fan speed	kW	4.10		5.00	
Power input - 50Hz	Cooling	At high fan speed	kW	0.096		0.107	
		At medium fan speed	kW	0.077		0.084	
		At low fan speed	kW	0.062		0.067	
	Heating	At high fan speed	kW	0.096		0.107	
		At medium fan speed	kW	0.077		0.084	
		At low fan speed	kW	0.062		0.067	
Power input - 60Hz	Cooling	At high fan speed	kW	0.096		0.107	
	Heating	At high fan speed	kW	0.096		0.107	
Dimensions	Unit	Height	mm		200		
		Width	mm	950		1,150	
		Depth	mm		620		
	Packed unit	Height	mm		260		
		Width	mm	1,122		1,322	
		Depth	mm		768		
Weight	Unit	kg	26.5			30.5	
	Packed unit	kg	29.0			33.0	
Casing	Colour		Not painted (galvanised)				
	Material		Galvanised steel				
Required ceiling void >		mm	240				
Heat exchanger	Inside length	mm	700			900	
	Rows	Quantity			3		
	Fin pitch	mm			1.50		
	Passes	Quantity			6		
	Face area	m ²		0.176		0.227	
	Stages	Quantity			12		
	Tube type				ø7 Hi-XD		
	Fin	Type			Symmetric waffle louver		
Fan	Type		Sirocco fan				
	Quantity			3		4	
	Air flow rate - 50Hz	Cooling	At high fan speed	m ³ /min	12.5		16.5
			At medium fan speed	m ³ /min	11.0		14.5
			At low fan speed	m ³ /min	10.0		13.0
	Heating	At high fan speed	m ³ /min	12.5		16.5	

2 Specifications

1 - 1 FXDA-A

Technical specifications				FXDA50A	FXDA63A	
Fan	Air flow rate - 50Hz	Heating	At medium fan speed	m ³ /min	11.0	14.5
			At low fan speed	m ³ /min	10.0	13.0
	Air flow rate - 60Hz	Cooling	At high fan speed	cfm	441	583
			At medium fan speed	cfm	388	512
			At low fan speed	cfm	353	459
		Heating	At high fan speed	cfm	441	583
			At medium fan speed	cfm	388	512
			At low fan speed	cfm	353	459
Sound power level	Cooling	At high fan speed	dB(A)	53	54	
Sound pressure level	Cooling	At high fan speed	dB(A)	35.0	36.0	
		At medium fan speed	dB(A)	33.0	34.0	
		At low fan speed	dB(A)	29.0	30.0	
	Heating	At high fan speed	dB(A)	35.0	36.0	
		At medium fan speed	dB(A)	33.0	34.0	
		At low fan speed	dB(A)	29.0	30.0	
Fan motor	Quantity			1		
	Output Max		W	65		
Refrigerant	Type			R-32		
	GWP			675.0		
	Control			Electronic expansion valve		
Piping connections	Liquid	Type		Flare connection		
		OD	mm	6.35		
	Gas	Type		Flare connection		
		OD	mm	12.70		
	Drain			VP20 (I.D. 20/O.D. 26)		
Heat insulation			Both liquid and gas pipes			
Drain-up height			mm	600		
Air filter	Type			Removable / washable		
Safety devices	Item	01		PC board fuse		
		02		Fan motor overcurrent protector		
		03		Fan motor thermal protection		
Control systems	Infrared remote control			BRC4C65		
	Wired remote control			BRC1H52W/S/K		

Standard accessories: Installation and operation manual; Quantity: 1;

Standard accessories: Drain hose; Quantity: 1;

Standard accessories: Sealing material (drain hose); Quantity: 2;

Standard accessories: Metal clamp for drain hose; Quantity: 1;

Standard accessories: Washer for hanger bracket; Quantity: 8;

Standard accessories: Screws; Quantity: 26;

Standard accessories: Insulation for fitting; Quantity: 2;

Standard accessories: Sealing material; Quantity: 2;

Standard accessories: Clamps; Quantity: 12;

Electrical specifications				FXDA10A	FXDA15A	FXDA20A	FXDA25A	FXDA32A	FXDA40A
Power supply	Name								VE
	Phase								1~
	Frequency		Hz						50/60
	Voltage		V						220-240/220
Current - 50Hz	Minimum circuit amps (MCA)	A	0.3						0.5
	Maximum fuse amps (MFA)	A							6
	Full load amps (FLA) Total	A	0.2						0.4
Current - 60Hz	Minimum circuit amps (MCA)	A	0.3						0.5
	Maximum fuse amps (MFA)	A							6
	Full load amps (FLA) Total	A	0.2						0.4

Electrical specifications				FXDA50A	FXDA63A
Power supply	Name				VE
	Phase				1~
	Frequency		Hz		50/60
	Voltage		V		220-240/220
Current - 50Hz	Minimum circuit amps (MCA)	A			0.6
	Maximum fuse amps (MFA)	A			6
	Full load amps (FLA) Total	A			0.5

2 Specifications

1 - 1 FXDA-A

Electrical specifications			FXDA50A	FXDA63A
Current - 60Hz	Minimum circuit amps (MCA)	A		0.6
	Maximum fuse amps (MFA)	A		6
	Full load amps (FLA) Total	A		0.5

- (1)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m |
- (2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m |
- (3)Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. |
- (4)External static pressure is changeable to set by the remote control (from standard to high, see installation manual) |
- (5)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- (6)Maximum allowable voltage range variation between phases is 2%. |
- (7)MCA/MFA: $MCA = 1.1 \times FLA$ |
- (8)Instead of a fuse, use a circuit breaker |
- (9)Select wire size based on the value of MCA |
- (10)Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

FXDA-A

Model name	Unit			Power supply		IFM	Power input [W]	
	Hz	Voltage	Voltage range	MCA	MFA		Cooling	Heating
FXDA10A2VEB	50/60	220-240/220	MAX. 264/MAX. 242 MIN. 198/MIN. 198	0,3	6	0,2	36	36
FXDA15A2VEB				0,4	6	0,3	48	48
FXDA20A2VEB				0,4	6	0,3	68	68
FXDA25A2VEB				0,4	6	0,3	68	68
FXDA32A2VEB				0,4	6	0,3	68	68
FXDA40A2VEB				0,5	6	0,4	75	75
FXDA50A2VEB				0,6	6	0,5	96	96
FXDA63A2VEB				0,6	6	0,5	107	107

Notes

- 1) Voltage range
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
- 2) The maximum allowable voltage that is unbalanced between phases is -2-%.
- 3) $MCA = 1.1 \times FLA$
- 4) Select the wire size according to the MCA.
- 5) Use a circuit breaker instead of a fuse.

Symbols

- MCA: Minimum Circuit Ampere [A]
 MFA: Maximum Fuse Ampere [A]
 FLA: Full Load Ampere [A]
 IFM: Indoor fan motor

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4 Safety device settings

4 - 1 Safety Device Settings

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FXDA-A

Safety devices		10	15	20	25	32	40	50	63
FXDA	Printed circuit board (main)	250V, 3.15A	250V, 3.15A	250V, 3.15A	250V, 3.15A	250V, 3.15A	250V, 3.15A	250V, 3.15A	250V, 3.15A
	Printed circuit board (fan)	250V, 1.3A	250V, 1.3A	250V, 1.3A	250V, 1.3A	250V, 1.3A	250V, 1.3A	250V, 1.3A	250V, 1.3A
	Fan motor thermal protector	°C	125	125	125	125	125	125	125

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5 Options

5 - 1 Options

Option kit	Product name	Availability		
		FXDA10-32A2VEB	FXDA40-50A2VEB	FXDA63A2VEB
Auto cleaning filter - Small	BAE20A62	✓		
Auto cleaning filter - Medium	BAE20A82		✓	
Auto cleaning filter - Large	BAE20A102			✓
Wireless remote control	BRC4C65	✓	✓	✓
Wired remote control	BRC1H52W/S/K	✓	✓	✓
Wiring adaptor for electrical appendices	ERP02A50 ①	✓	✓	✓
	KRP2A53 ①	✓	✓	✓
	KRP4A54 ①	✓	✓	✓
Remote sensor	KRCS01-8B	✓	✓	✓
Installation box for adaptor PCB	KRP1BC101	✓	✓	✓
Central remote control	DCS302C51	✓	✓	✓
Unified ON/OFF controller	DCS301B51	✓	✓	✓
Electrical box with earth terminal (:2- blocks)	KJB212AA	✓	✓	✓
Electrical box with earth terminal (:3- blocks)	KJB311AA	✓	✓	✓
Schedule timer	DST301BA51	✓	✓	✓
External control adaptor for outdoor unit	DTA104A53	✓	✓	✓
Digital input adaptor	BRP7A54 ①②	✓	✓	✓
Relay PCB	ERP01A51 ①	✓	✓	✓
Wire harness for external wireless temperature sensor	EKEWTSC-1 ③	✓	✓	✓
Noise filter (for electromagnetic interface only)	KEK26-1A	✓	✓	✓
Insulation kit for high humidity	KDT25N32 / KDT25N50 / KDT25N63	✓	✓	✓
WLAN adaptor for smartphones	BRP069C51 ④	✓	✓	✓

Notes

- ① Requires installation box for adaptor PCB ·KRP1BC101·.
- ② Only possible in combination with remote control ·BRC1H52·.
- ③ ·EKEWTSC-1· is a wire harness for the connection of option ·K.RSS·.
·K.RSS· is not an official option. Sales for this option are an SBU responsibility.
- ④ Only possible in combination with wired or wireless remote control (e.g. ·BRC1H52, BRC4C65·)

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6 Capacity tables

6 - 1 Cooling Capacity Tables

FXDA-A

Unit size	Fan speed	Indoor air temperature													
		14,0 [°C WB] 20,0 [°C DB]		16,0 [°C WB] 23,0 [°C DB]		18,0 [°C WB] 26,0 [°C DB]		19,0 [°C WB] 27,0 [°C DB]		20,0 [°C WB] 28,0 [°C DB]		22,0 [°C WB] 30,0 [°C DB]		24,0 [°C WB] 32,0 [°C DB]	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
10	H	0,6	0,5	0,8	0,7	1,0	0,8	1,1	0,8	1,2	0,8	1,4	0,9	1,6	1,0
	M	Correction factor -0.95 × H-													
	L	Correction factor -0.91 × H-													
15	H	1,0	0,9	1,3	1,1	1,6	1,2	1,7	1,3	1,9	1,3	2,2	1,4	2,5	1,5
	M	Correction factor -0.88 × H-													
	L	Correction factor -0.82 × H-													
20	H	1,3	1,0	1,6	1,3	2,0	1,5	2,2	1,5	2,4	1,6	2,8	1,7	3,3	1,8
	M	Correction factor -0.86 × H-													
	L	Correction factor -0.77 × H-													
25	H	1,7	1,3	2,1	1,6	2,6	1,8	2,8	1,9	3,1	2,0	3,6	2,2	4,2	2,3
	M	Correction factor -0.89 × H-													
	L	Correction factor -0.79 × H-													
32	H	2,2	1,7	2,7	2,0	3,3	2,4	3,6	2,5	3,9	2,6	4,7	2,8	5,4	2,9
	M	Correction factor -0.86 × H-													
	L	Correction factor -0.75 × H-													
40	H	2,7	2,1	3,4	2,5	4,1	2,9	4,5	3,0	4,9	3,1	5,8	3,4	6,7	3,6
	M	Correction factor -0.87 × H-													
	L	Correction factor -0.76 × H-													
50	H	3,3	2,7	4,2	3,2	5,1	3,7	5,6	3,8	6,1	3,9	7,2	4,2	8,4	4,5
	M	Correction factor -0.84 × H-													
	L	Correction factor -0.71 × H-													
63	H	4,3	3,4	5,3	4,0	6,5	4,6	7,1	4,8	7,7	5,0	9,0	5,3	10,4	5,6
	M	Correction factor -0.82 × H-													
	L	Correction factor -0.66 × H-													

Notes

- 1) TC: Total capacity [kW]
SHC: Sensible heat capacity [kW]
- 2) Outdoor temperature -35°C DB

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6 Capacity tables

6 - 2 Heating Capacity Tables

FXDA-A

Unit size	Fan speed	Indoor air temperature					
		16,0 [°C DB]	18,0 [°C DB]	20,0 [°C DB]	21,0 [°C DB]	22,0 [°C DB]	24,0 [°C DB]
		TC	TC	TC	TC	TC	TC
10	H	1,5	1,4	1,3	1,2	1,2	1,1
	M	Correction factor $-0.92 \times H$					
	L	Correction factor $-0.88 \times H$					
15	H	1,5	1,4	1,3	1,2	1,2	1,1
	M	Correction factor $-0.84 \times H$					
	L	Correction factor $-0.79 \times H$					
20	H	2,9	2,7	2,5	2,4	2,3	2,1
	M	Correction factor $-0.84 \times H$					
	L	Correction factor $-0.72 \times H$					
25	H	3,7	3,5	3,2	3,1	2,9	2,7
	M	Correction factor $-0.84 \times H$					
	L	Correction factor $-0.72 \times H$					
32	H	4,7	4,3	4,0	3,8	3,7	3,3
	M	Correction factor $-0.85 \times H$					
	L	Correction factor $-0.73 \times H$					
40	H	5,8	5,4	5,0	4,8	4,6	4,2
	M	Correction factor $-0.84 \times H$					
	L	Correction factor $-0.72 \times H$					
50	H	7,4	6,8	6,3	6,0	5,8	5,3
	M	Correction factor $-0.81 \times H$					
	L	Correction factor $-0.65 \times H$					
63	H	9,3	8,7	8,0	7,7	7,3	6,7
	M	Correction factor $-0.79 \times H$					
	L	Correction factor $-0.63 \times H$					

Notes

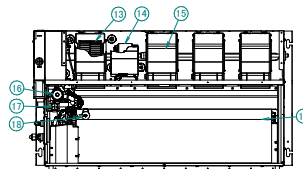
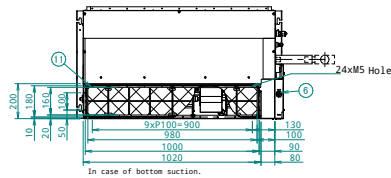
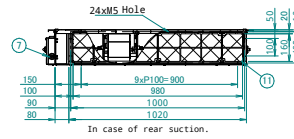
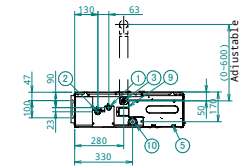
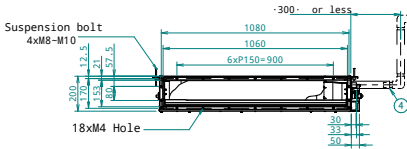
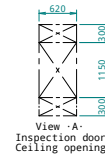
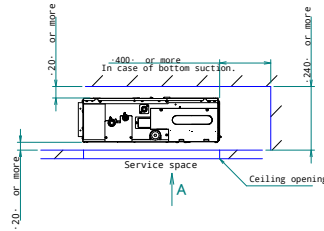
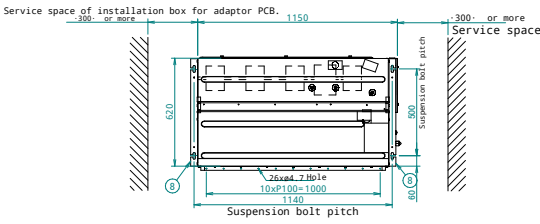
- 1) TC: Total capacity [kW]
- 2) Outdoor temperature $-7^{\circ}\text{C DB} / -6^{\circ}\text{C WB}$

3D129395

7 Dimensional drawings

7 - 1 Dimensional Drawings

FXDA63A



Item		
1	Liquid pipe connection ·ø6.35	Flare connection
2	Gas pipe connection ·ø12.70	Flare connection
3	Drain pipe connection	Outside diameter: ·ø26- Inside diameter: ·ø20
4	Drain hose (accessory)	Inside diameter: ·ø25
5	Control box	
6	Transmission wiring connection	
7	Power supply connection	
8	Suspension bracket	
9	Inspection door	
10	Drain socket	
11	Air filter (accessory)	
12	Heat exchanger	
13	Turbo fan	
14	Fan motor	
15	Fan housing	
16	Drain pump	
17	Float switch	
18	Electronic expansion valve	

Notes

- In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
- In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.
- The unit nameplate is located on the control box cover.
- Mount the air filter at the suction side. Use an air filter with a dust collecting efficiency of at least ·50% (measured by gravimetric analysis). When a duct is connected at the suction side, it is not possible to mount an air filter.

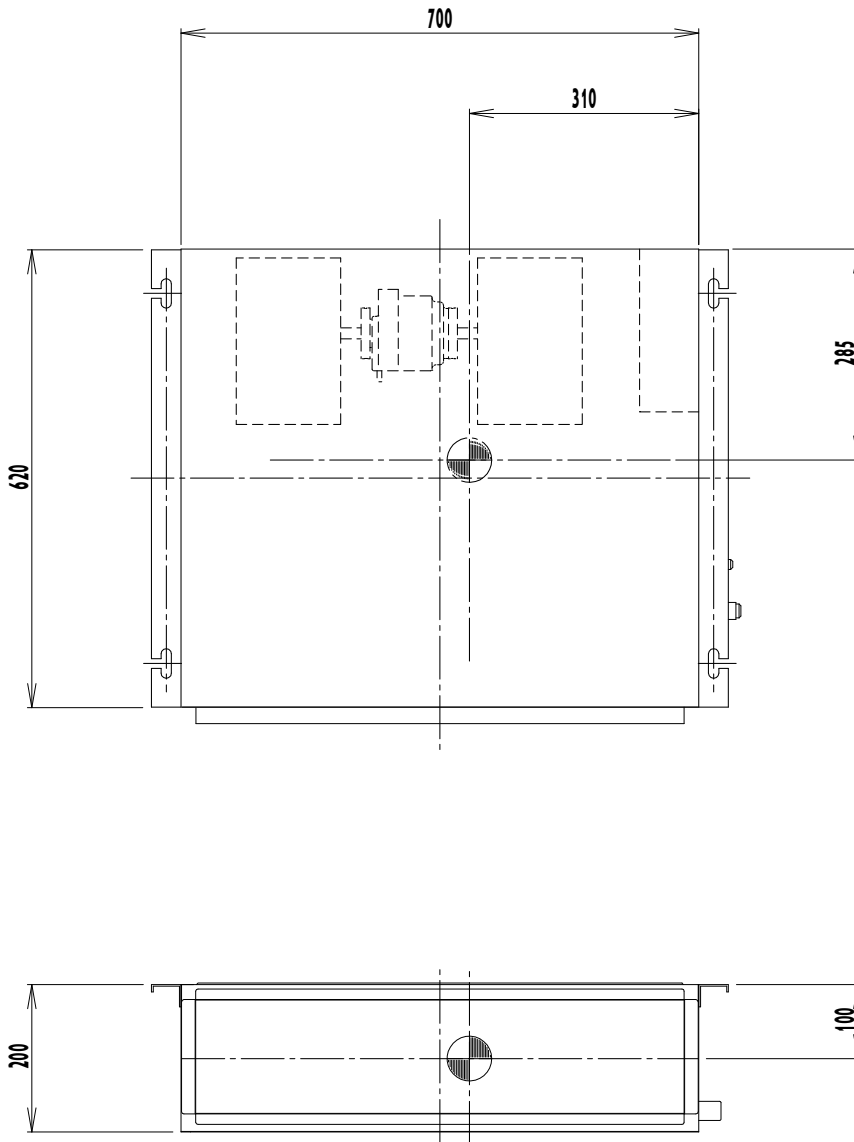
2D126592

8 Centre of gravity

8 - 1 Centre of Gravity

8

FXDA10-32A

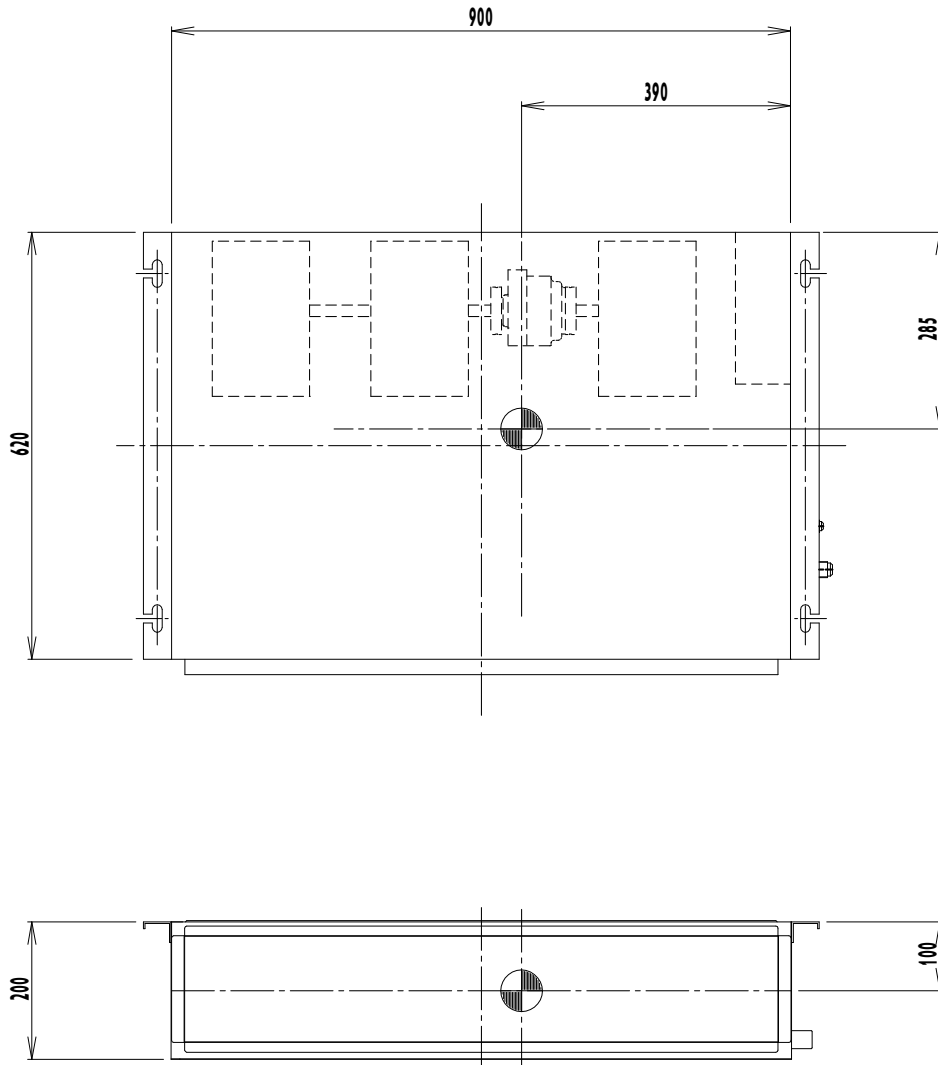


4D081430B

8 Centre of gravity

8 - 1 Centre of Gravity

FXDA40-50A



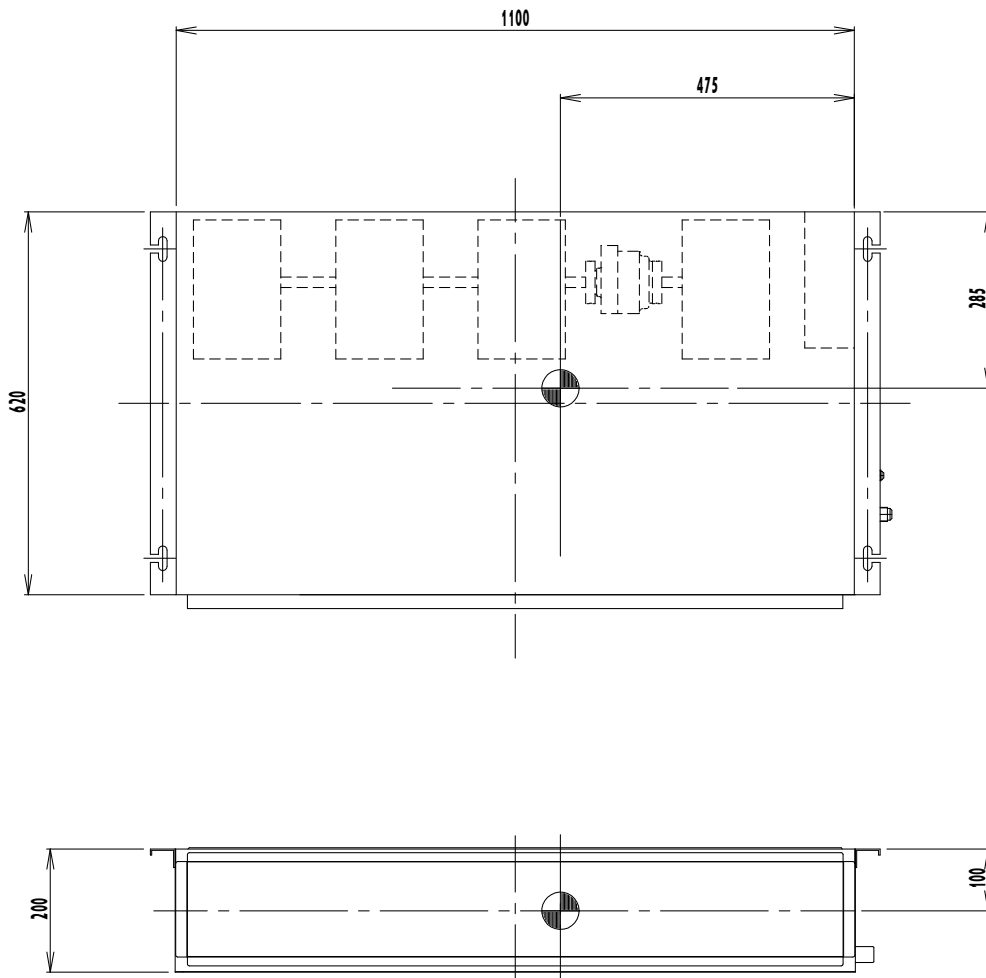
4D081431B

8 Centre of gravity

8 - 1 Centre of Gravity

FXDA63A

8



4D081433B

9 Piping diagrams

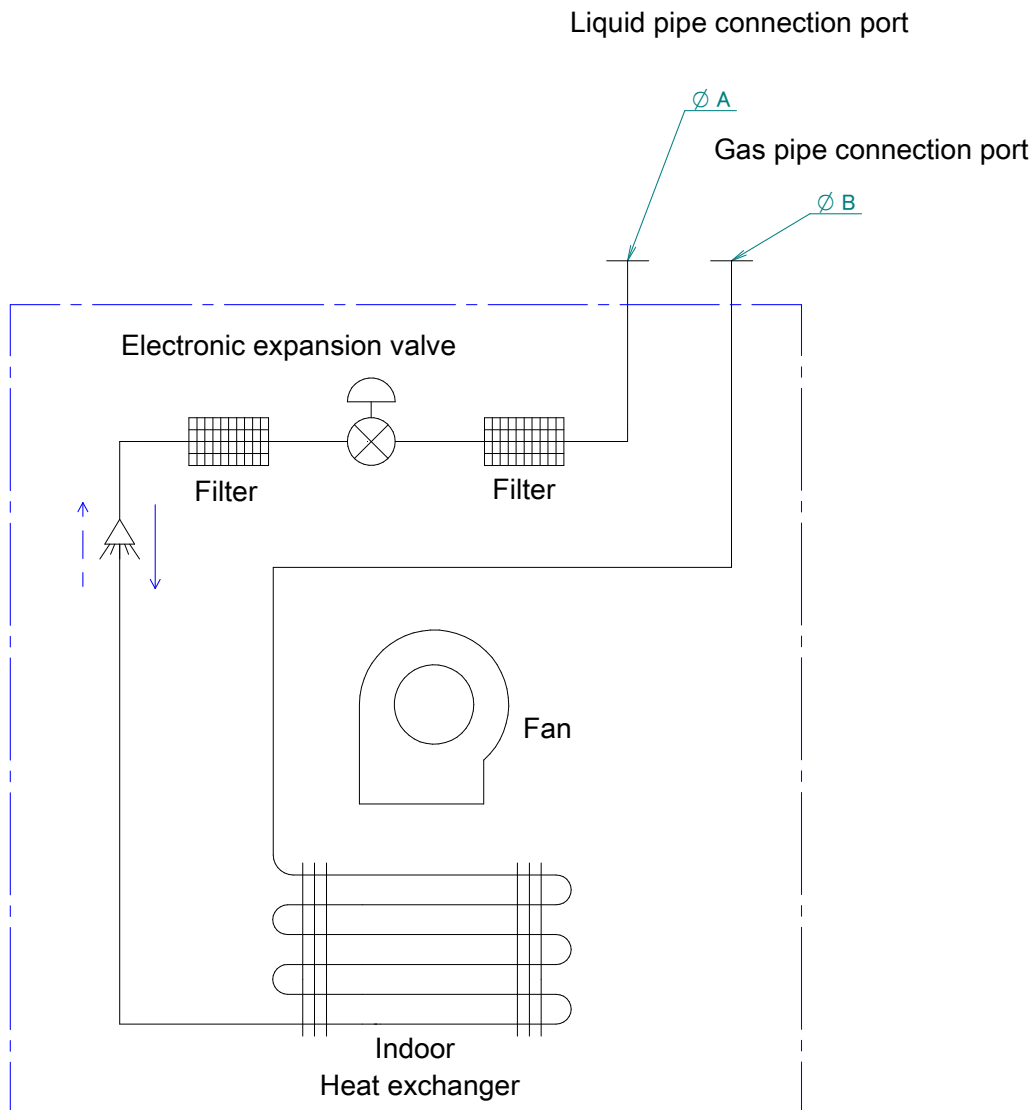
9 - 1 Piping Diagrams

FXDA-A

Model	A	B
FXDA10A2VEB	6.35	9.52
FXDA15A2VEB		
FXDA20A2VEB		
FXDA25A2VEB		
FXDA32A2VEB		
FXDA40A2VEB	12.7	
FXDA50A2VEB		
FXDA63A2VEB		

REFRIGERANT FLOW

COOLING ———>
HEATING - - - ->

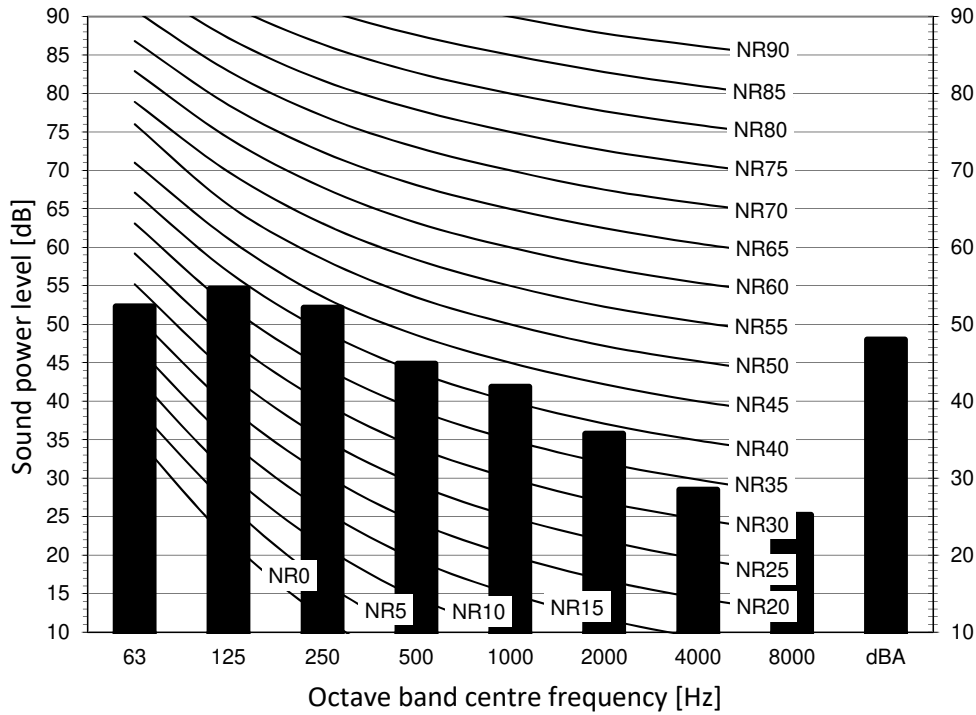


4D126229

11 Sound data

11 - 1 Sound Power Spectrum

FXDA10A

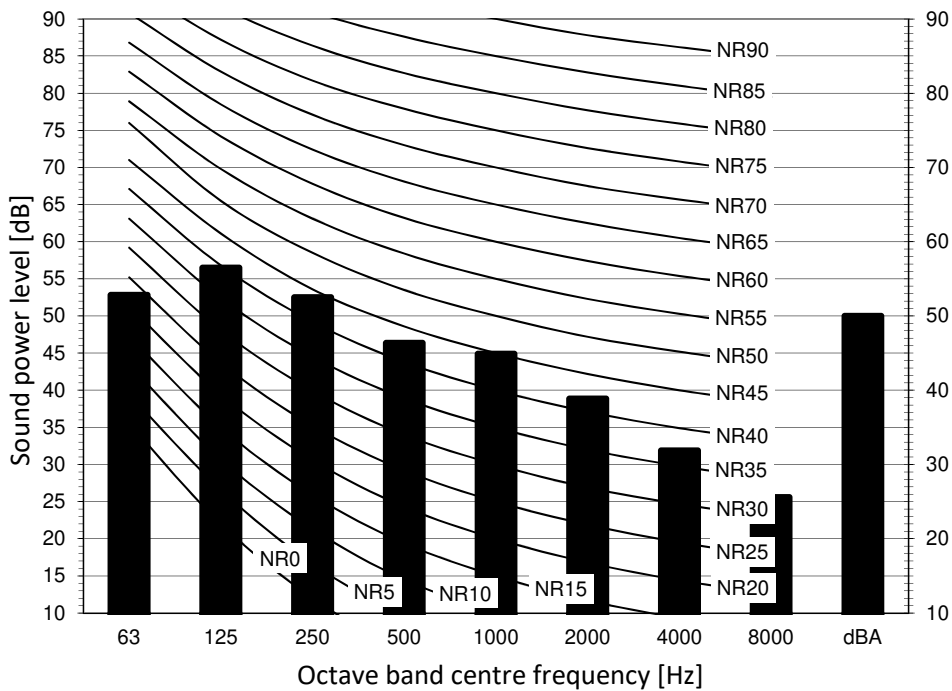


Notes

- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic pressure 0 dB = $\cdot 10E-6 \cdot \mu W/m^2$
- 3 Measured according to ISO 3744

4D129503

FXDA15A



Notes

- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic pressure 0 dB = $\cdot 10E-6 \cdot \mu W/m^2$
- 3 Measured according to ISO 3744

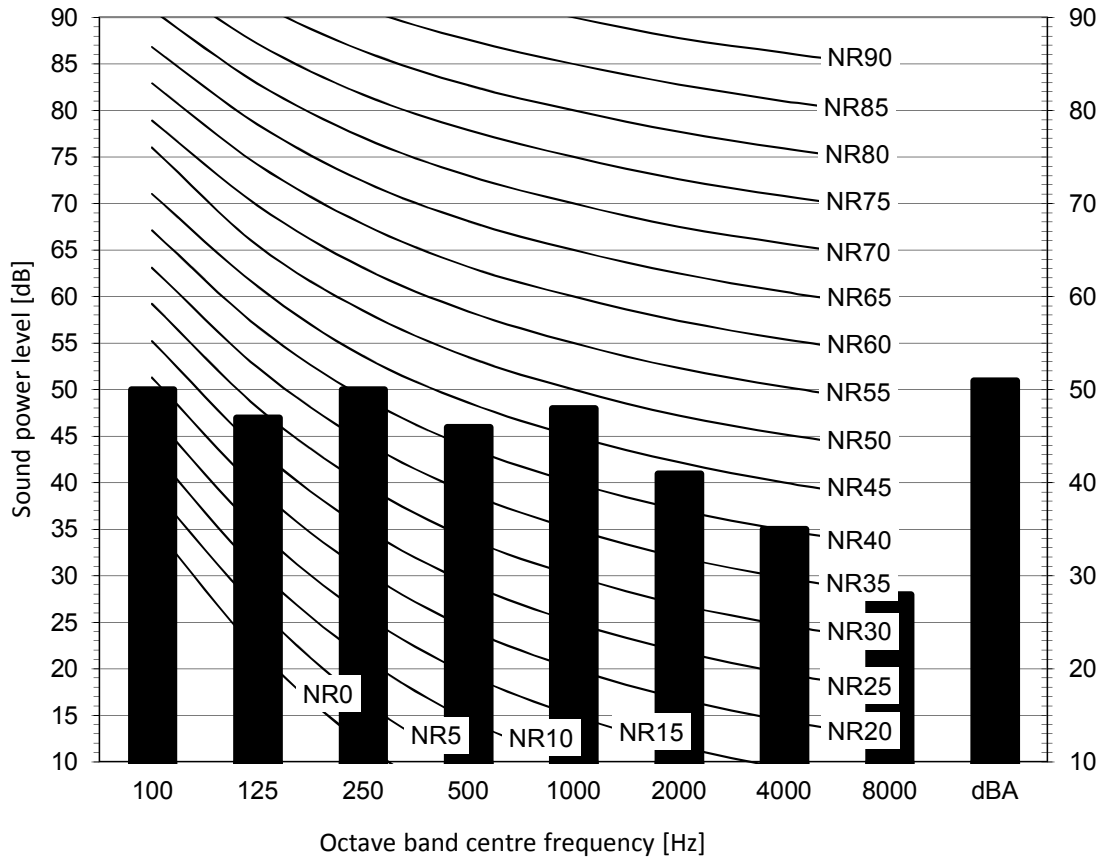
4D129504

11 Sound data

11 - 1 Sound Power Spectrum

11

FXDA20A



Notes

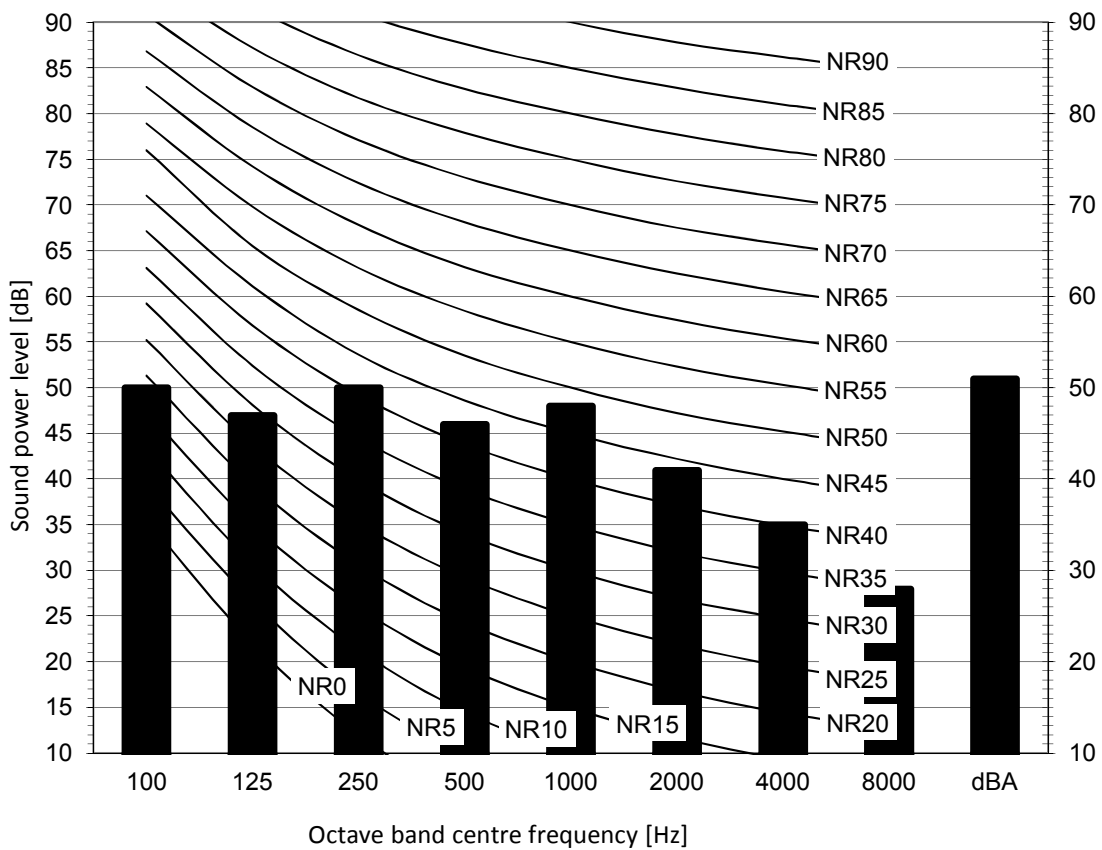
- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = 10E-6Wμ/m2
- 3 Measured according to ISO 3744

4D088132

11 Sound data

11 - 1 Sound Power Spectrum

FXDA25A



Notes

- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = 10E-6Wμ/m2
- 3 Measured according to ISO 3744

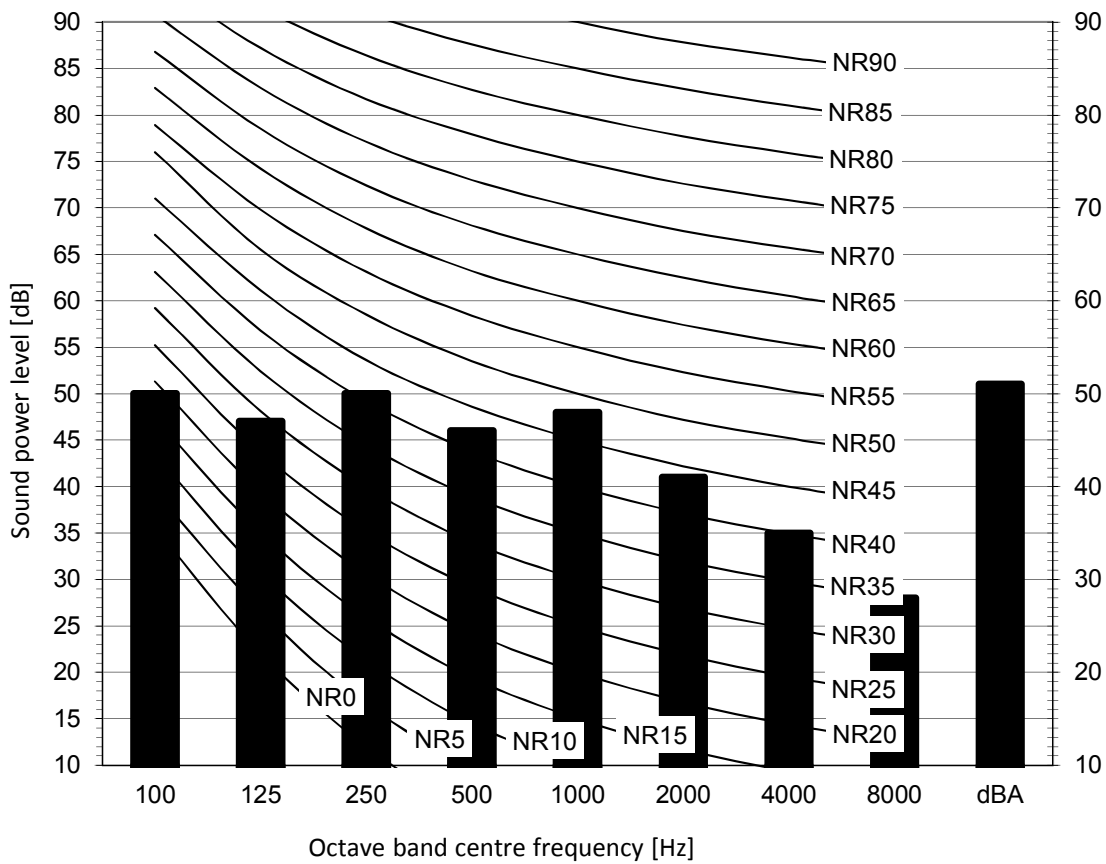
4D088133

11 Sound data

11 - 1 Sound Power Spectrum

11

FXDA32A



Notes

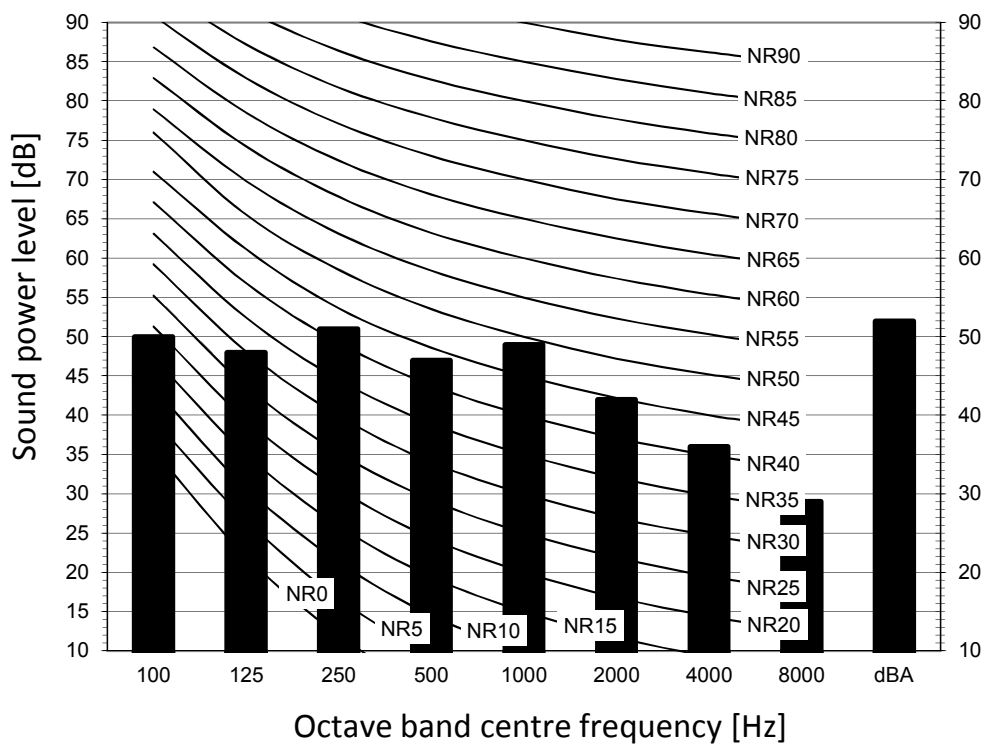
- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = 10E-6Wμ/m2
- 3 Measured according to ISO 3744

4D088134

11 Sound data

11 - 1 Sound Power Spectrum

FXDA40A



Notes

- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = 10E-6Wμ/m2
- 3 Measured according to ISO 3744

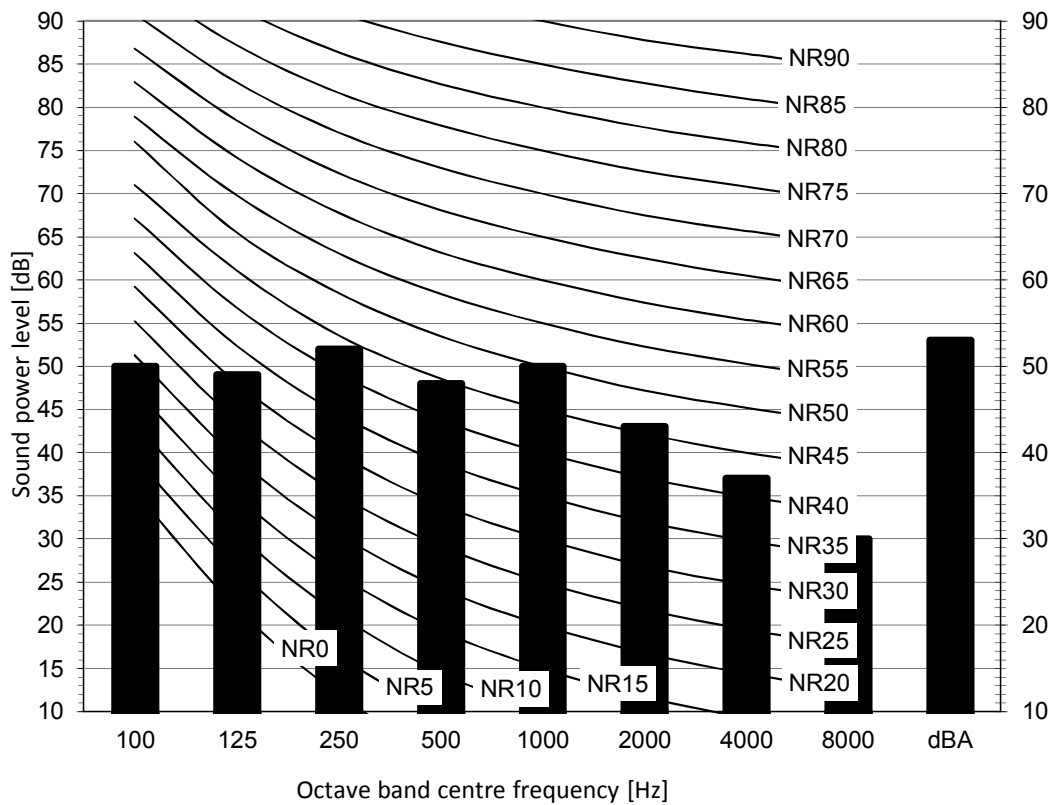
4D088135

11 Sound data

11 - 1 Sound Power Spectrum

11

FXDA50A



Notes

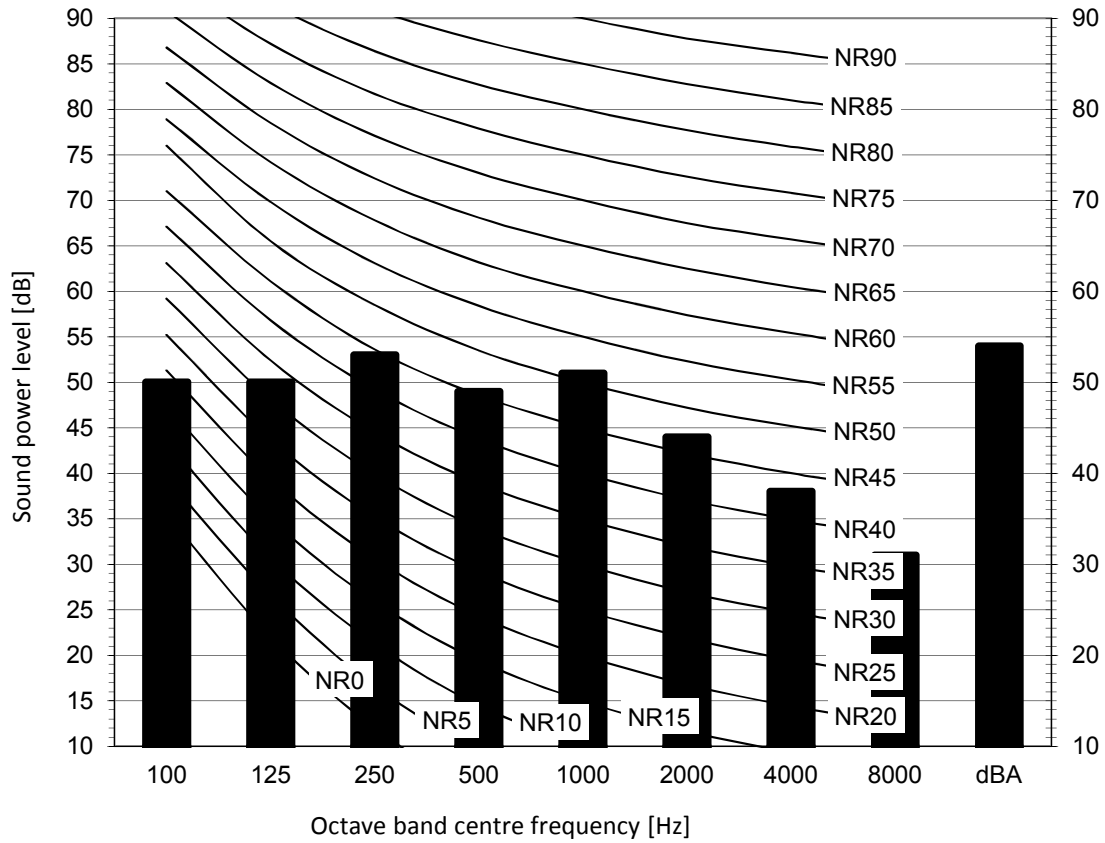
- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = 10E-6Wμ/m2
- 3 Measured according to ISO 3744

4D088136

11 Sound data

11 - 1 Sound Power Spectrum

FXDA63A



Notes

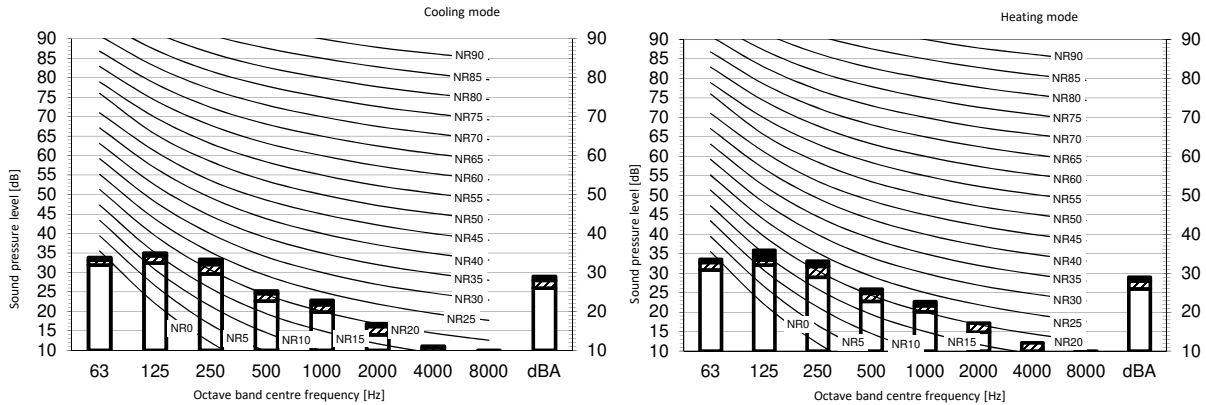
- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = 10E-6Wμ/m2
- 3 Measured according to ISO 3744

4D088137

11 Sound data

11 - 2 Sound Pressure Spectrum

FXDA10A



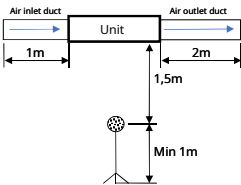
Legend

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	29,0	28,0	26,0

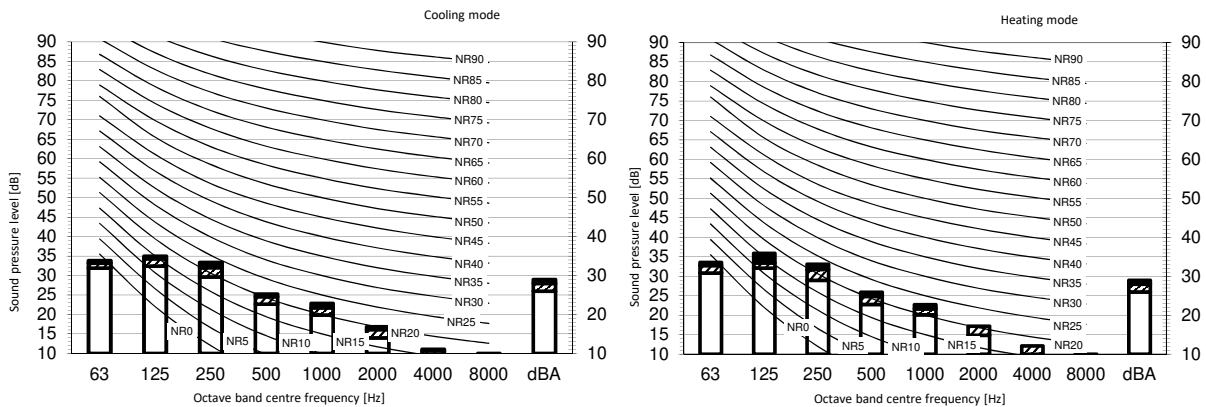
Heating		Total dB	
A	B	C	D
dBA	29,0	28,0	26,0

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

3D129500

FXDA15A



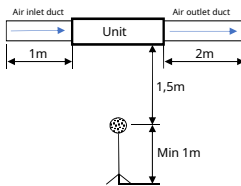
Legend

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	29,0	28,0	26,0

Heating		Total dB	
A	B	C	D
dBA	29,0	28,0	26,0

Notes

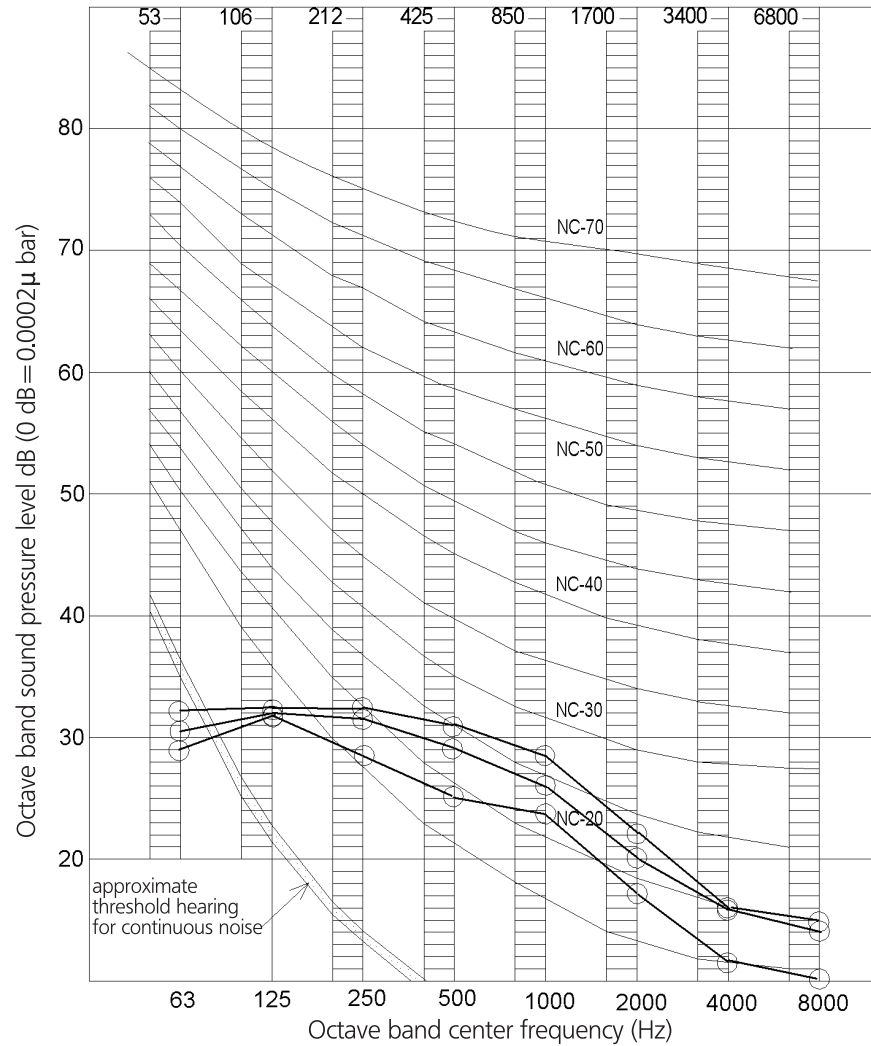
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D129501

11 Sound data

11 - 2 Sound Pressure Spectrum

FXDA20A



NOTES

1 Overall (dB)

Scale	Air flow rate		
	H	M	L
A	33	31	27

(B,G,N is already rectified)

2 Measuring place: Anechoic chamber

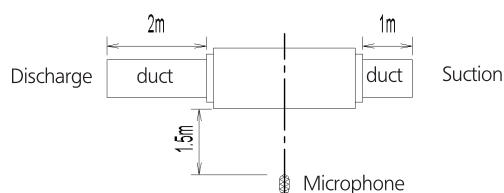
3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 10Pa.

5 Operating conditions:

Power source 220-240V/50Hz, 220V/60Hz
 Cooling: Return air temperature: 27°CDB, 19°CWB
 Outdoor temperature: 35°CDB, 24°CWB
 Heating: Return air temperature: 20°CDB, 15°CWB
 Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:



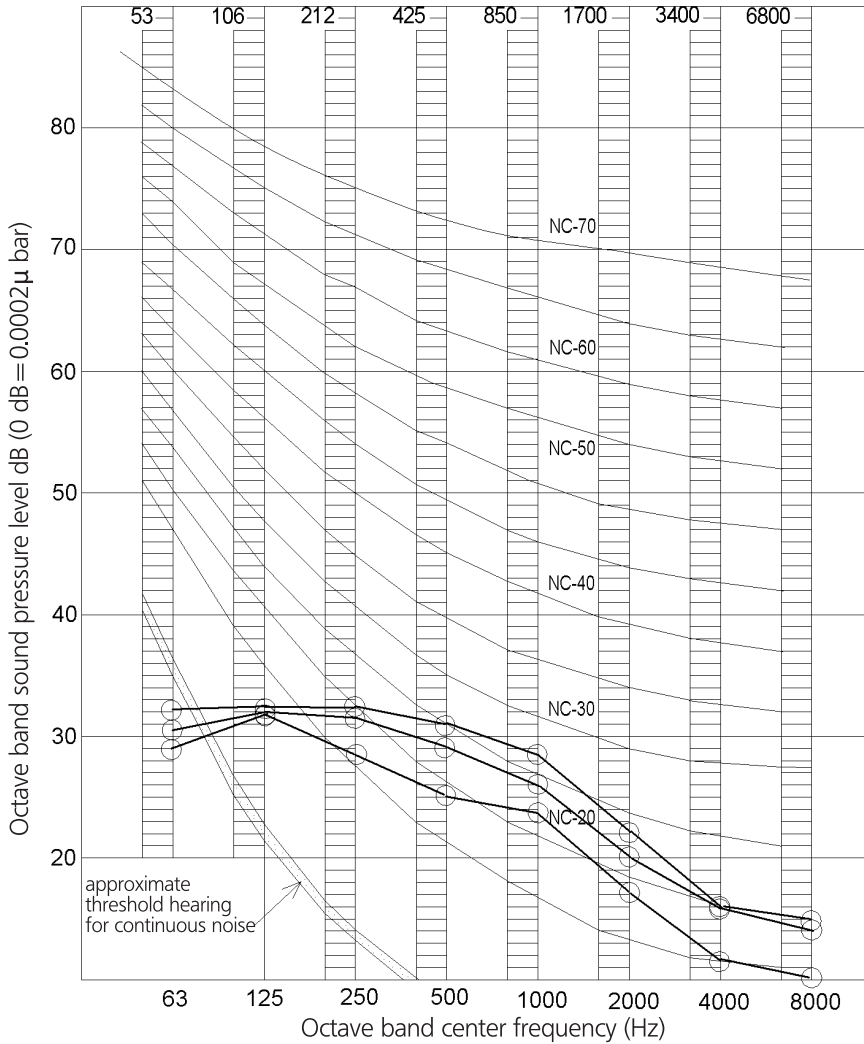
4D081439

11 Sound data

11 - 2 Sound Pressure Spectrum

11

FXDA25A



NOTES

1 Overall (dB)

Scale	Air flow rate		
	H	M	L
A	33	31	27

(B,G,N is already rectified)

2 Measuring place: Anechoic chamber

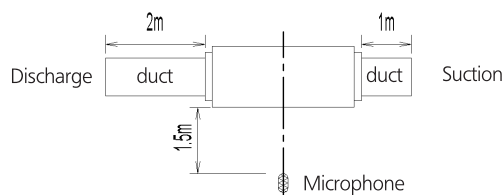
3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 10Pa.

5 Operating conditions:

Power source 220-240V/50Hz, 220V/60Hz
 Cooling: Return air temperature: 27°CDB, 19°CWB
 Outdoor temperature: 35°CDB, 24°CWB
 Heating: Return air temperature: 20°CDB, 15°CWB
 Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:

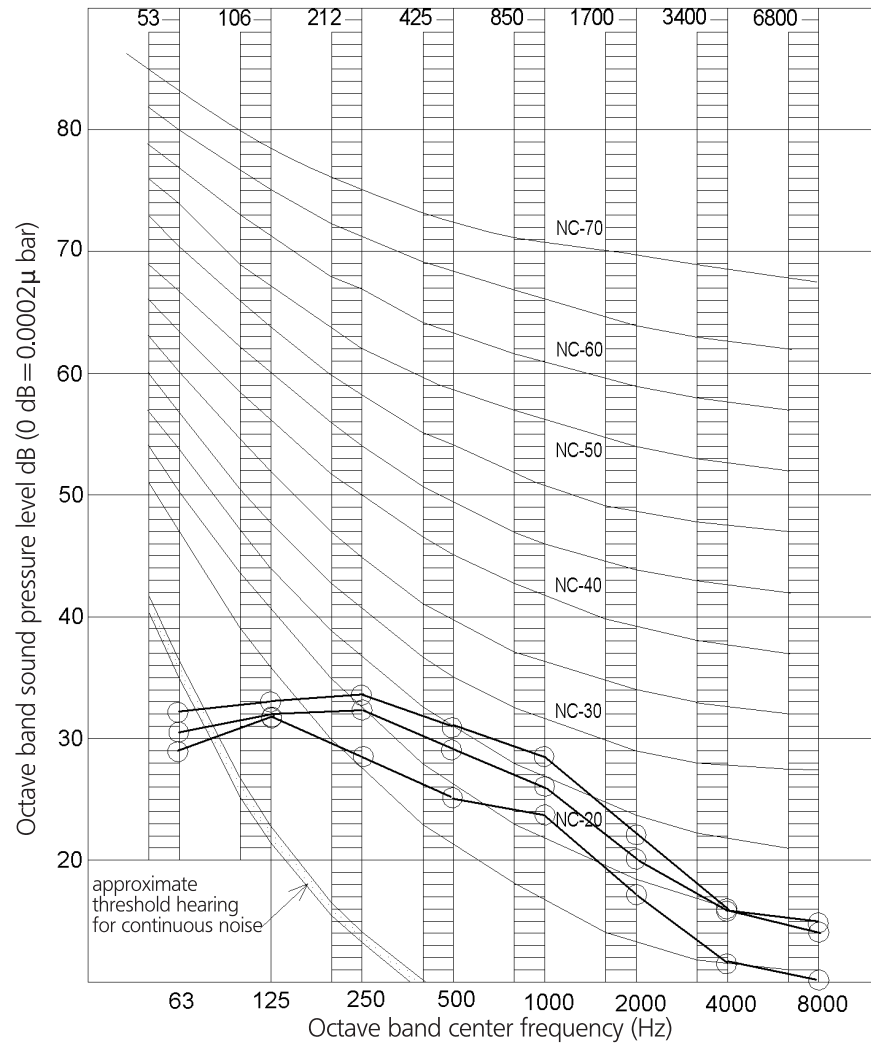


4D081440

11 Sound data

11 - 2 Sound Pressure Spectrum

FXDA32A



NOTES

1 Overall (dB)

Scale	Air flow rate		
	H	M	L
A	33	31	27

(B,G,N is already rectified)

2 Measuring place: Anechoic chamber

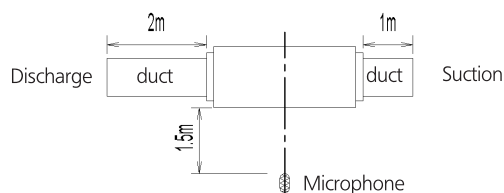
3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 10Pa.

5 Operating conditions:

Power source 220-240V/50Hz, 220V/60Hz
 Cooling: Return air temperature: 27°CDB, 19°CWB
 Outdoor temperature: 35°CDB, 24°CWB
 Heating: Return air temperature: 20°CDB, 15°CWB
 Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:



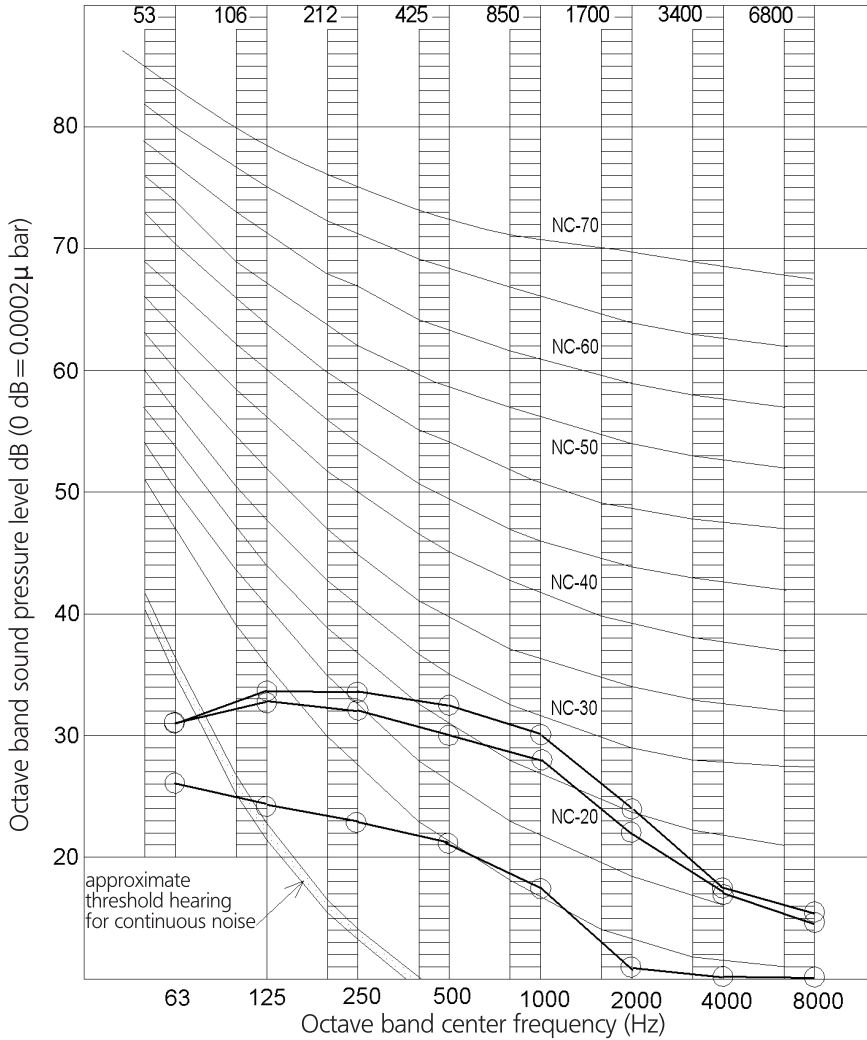
4D081442

11 Sound data

11 - 2 Sound Pressure Spectrum

11

FXDA40A



NOTES

1 Overall (dB)

Scale	Air flow rate		
	H	M	L
A	34	32	28

(B,G,N is already rectified)

2 Measuring place: Anechoic chamber

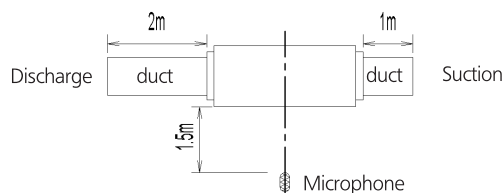
3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 15Pa.

5 Operating conditions:

Power source 220-240V/50Hz, 220V/60Hz
 Cooling: Return air temperature: 27°CDB, 19°CWB
 Outdoor temperature: 35°CDB, 24°CWB
 Heating: Return air temperature: 20°CDB, 15°CWB
 Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:

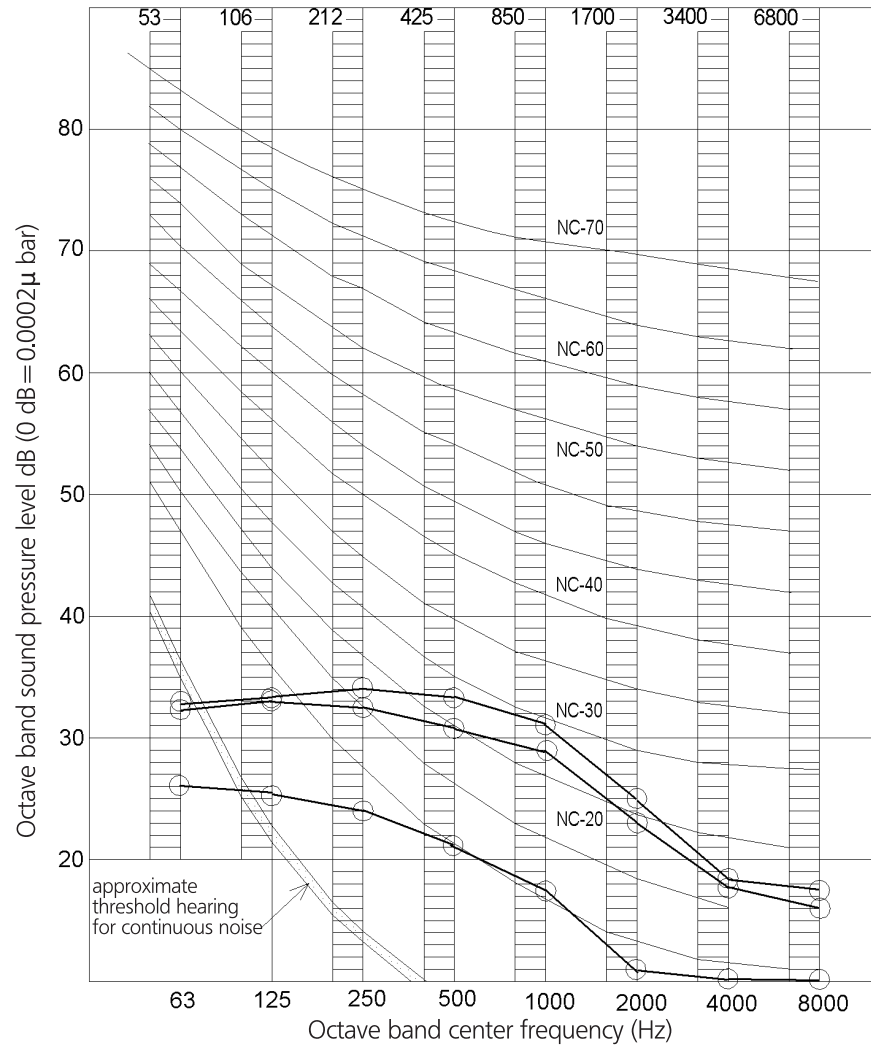


4D081443

11 Sound data

11 - 2 Sound Pressure Spectrum

FXDA50A



NOTES

1 Overall (dB)

Scale	Air flow rate		
	H	M	L
A	35	33	29

(B,G,N is already rectified)

2 Measuring place: Anechoic chamber

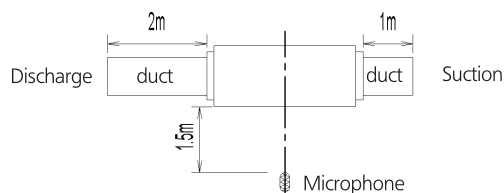
3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 15Pa.

5 Operating conditions:

Power source 220-240V/50Hz, 220V/60Hz
 Cooling: Return air temperature: 27°CDB, 19°CWB
 Outdoor temperature: 35°CDB, 24°CWB
 Heating: Return air temperature: 20°CDB, 15°CWB
 Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:



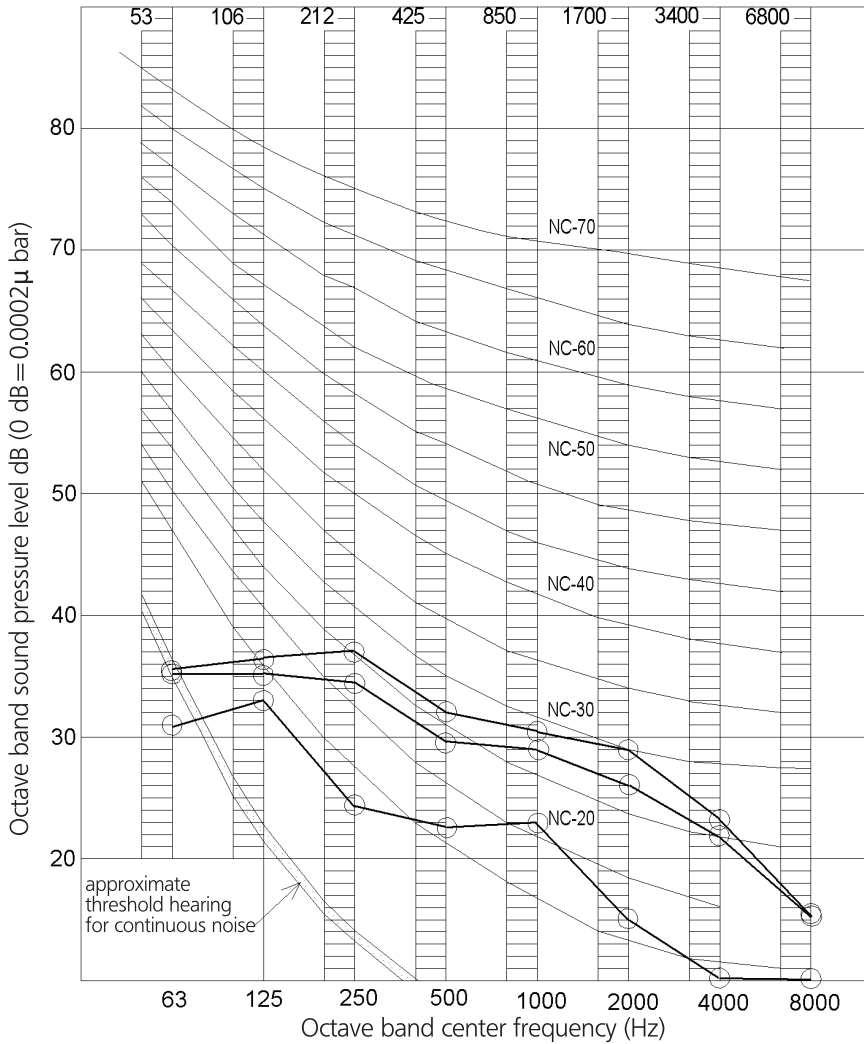
4D081444

11 Sound data

11 - 2 Sound Pressure Spectrum

11

FXDA63A



NOTES

1 Overall (dB)

Scale	Air flow rate		
	H	M	L
A	36	34	30

(B,G,N is already rectified)

2 Measuring place: Anechoic chamber

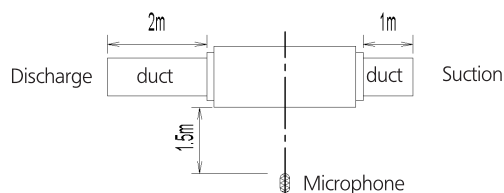
3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 15Pa.

5 Operating conditions:

Power source 220-240V/50Hz, 220V/60Hz
 Cooling: Return air temperature: 27°CDB, 19°CWB
 Outdoor temperature: 35°CDB, 24°CWB
 Heating: Return air temperature: 20°CDB, 15°CWB
 Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:

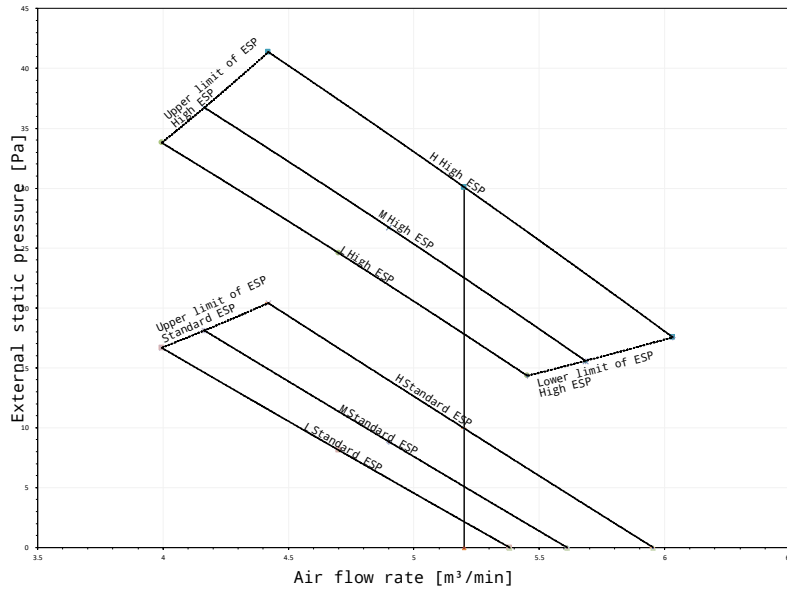


4D081445

12 Fan characteristics

12-1 Fan Characteristics

FXDA10A

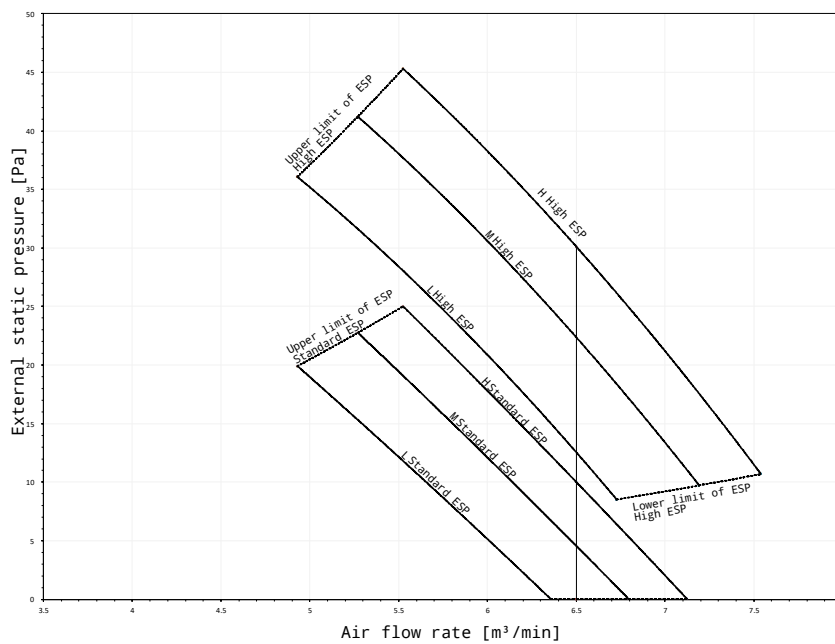


Notes

- 1.The fan characteristics shown are in "fan only" mode.
- 2.ESP: External Static Pressure
- 3.The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D129552

FXDA15A



Notes

- 1.The fan characteristics shown are in "fan only" mode.
- 2.ESP: External Static Pressure
- 3.The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

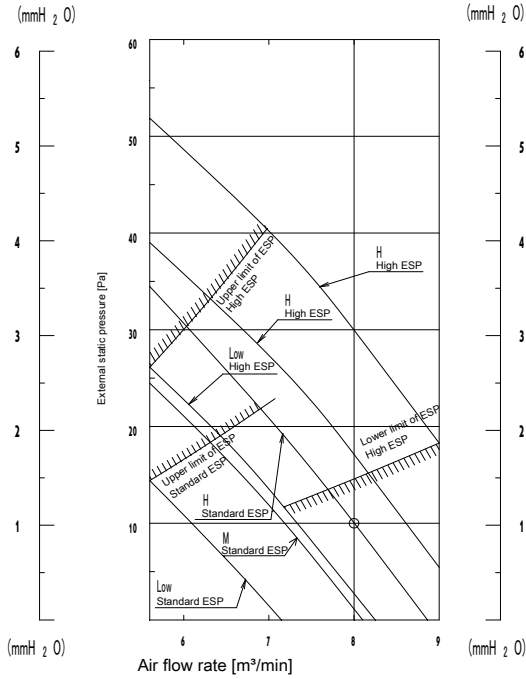
3D129553

12 Fan characteristics

12 - 1 Fan Characteristics

12

FXDA20-25A



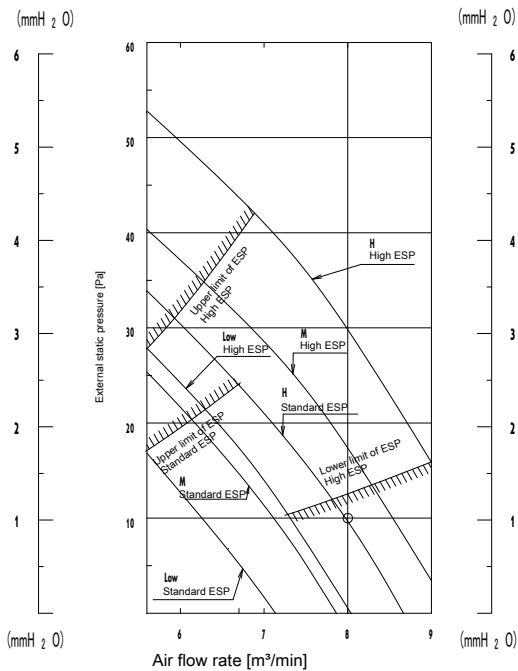
Notes

The remote controller can be used to switch between 'high' and 'low'.

6 The air flow is factory-set to 'standard'. It is possible to switch between 'standard ES P' and 'high ESP' by remote controller setting.

3D086736B

FXDA32A



Notes

The remote controller can be used to switch between 'high' and 'low'.

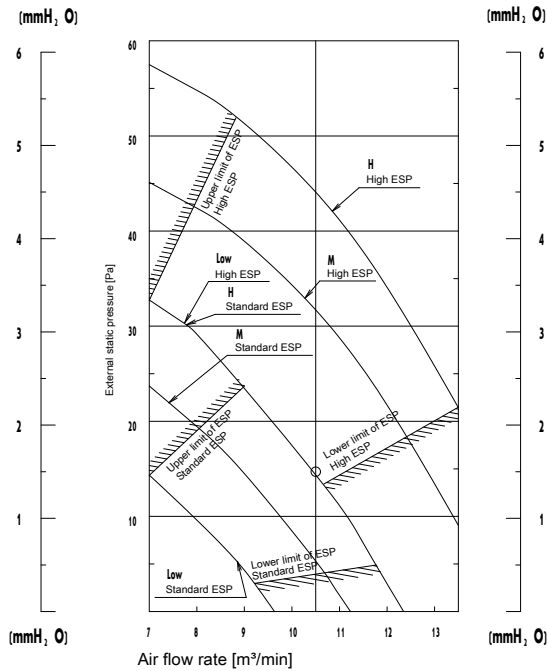
The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081425C

12 Fan characteristics

12 - 1 Fan Characteristics

FXDA40A

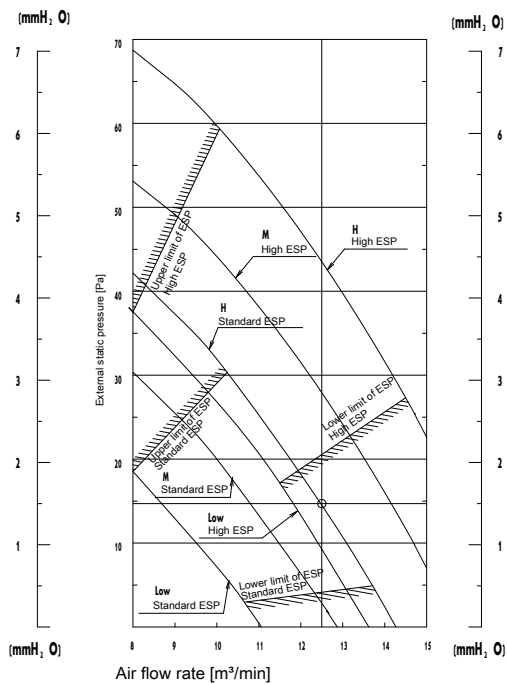


Notes

- 6 The remote controller can be used to switch between 'high' and 'low'.
- 5 The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081426C

FXDA50A



Notes

- 6 The remote controller can be used to switch between 'high' and 'low'.
- 5 The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

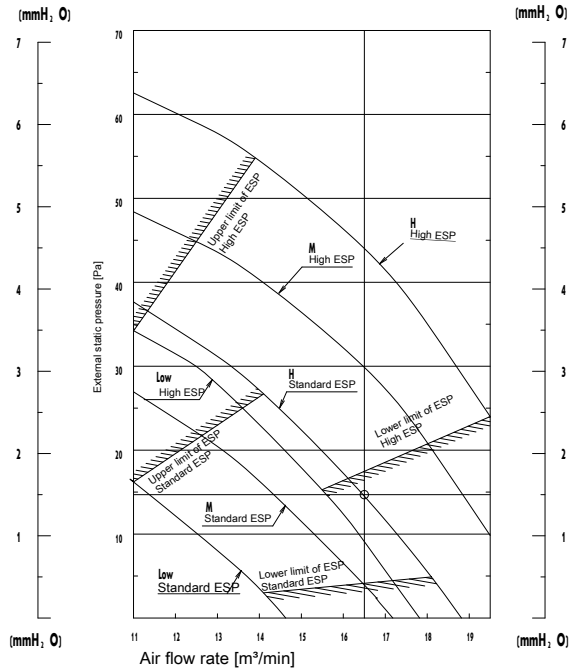
3D081427C

12 Fan characteristics

12 - 1 Fan Characteristics

12

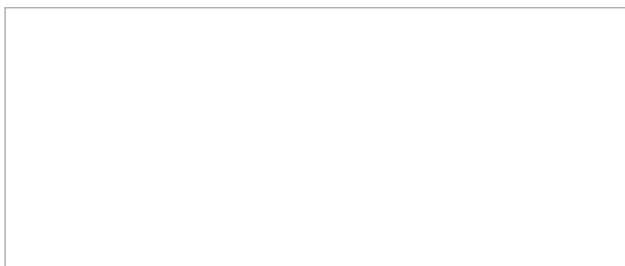
FXDA63A



Notes

- The remote controller can be used to switch between 'high' and 'low'.
- The air flow is factory-set to 'standard'. It is possible to switch between 'standard ESP' and 'high ESP' by remote controller setting.

3D081429C



EEDEN20

07/2020



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