

Slim concealed ceiling
unit
Air Conditioning
Technical Data
FXDA-A



FXDA10A2VEB
FXDA15A2VEB
FXDA20A2VEB
FXDA25A2VEB
FXDA32A2VEB
FXDA40A2VEB
FXDA50A2VEB
FXDA63A2VEB

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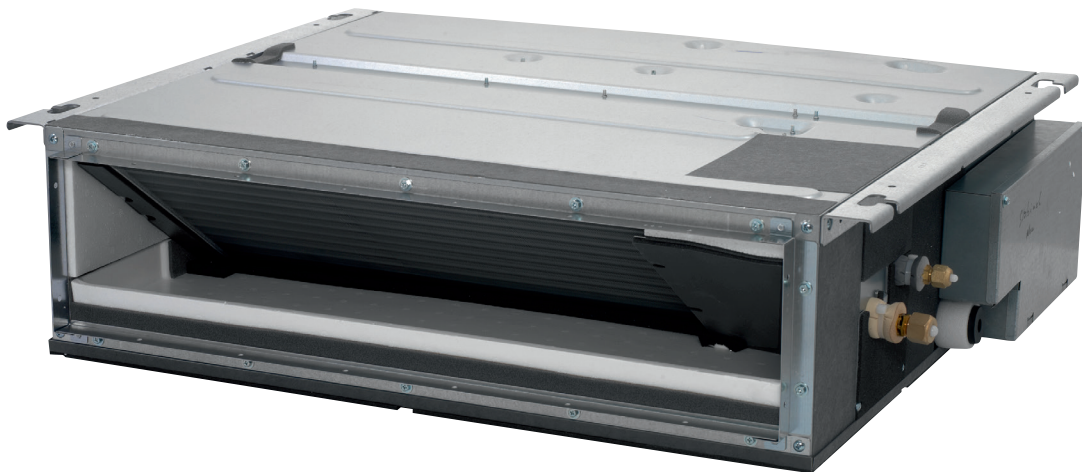
1 Features

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Slim design for flexible installation

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



Auto-cleaning filter (optional)



Daikin Residential Controller (optional)



Home leave operation



Fan only



Auto cooling-heating changeover



Whisper quiet



Fan speed steps (3 steps + auto)



Dry programme



Air filter (pre filter)



Weekly timer



Infrared remote control (optional - must be combined with Madoka wired remote controller)



Wired remote control (required option)



Centralised control (optional)



Auto-restart



Self diagnosis



Multi tenant



Drain pump kit (standard)

2 Specifications

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Technical specifications				FXDA10A	FXDA15A	FXDA20A	FXDA25A	
Cooling capacity	Sensible capacity	At high fan speed	kW	0.80	1.20	1.50	1.90	
		At medium fan speed	kW	0.80	1.00	1.30	1.70	
		At low fan speed	kW	0.70	0.90	1.10	1.50	
	Latent capacity	At high fan speed	kW	0.30	0.50	0.70	0.90	
		At medium fan speed	kW	0.20	0.50	0.60	0.80	
		At low fan speed	kW	0.20	0.50	0.60	0.70	
	Total capacity	At high fan speed	kW	1.10	1.70	2.20	2.80	
		At medium fan speed	kW	1.00	1.50	1.90	2.50	
		At low fan speed	kW	0.90	1.40	1.70	2.20	
Heating capacity	Total capacity	At high fan speed	kW	1.30	1.90	2.50	3.20	
		At medium fan speed	kW	1.20	1.60	2.10	2.70	
		At low fan speed	kW	1.10	1.50	1.80	2.30	
Power input - 50Hz	Cooling	At high fan speed	kW	0.026 (1)	0.035 (1)	0.030 (1)		
		At medium fan speed	kW	0.024 (1)	0.032 (1)	0.025 (1)		
		At low fan speed	kW	0.023 (1)	0.030 (1)	0.021 (1)		
	Heating	At high fan speed	kW	0.026 (1)	0.035 (1)	0.030 (1)		
		At medium fan speed	kW	0.024 (1)	0.032 (1)	0.025 (1)		
		At low fan speed	kW	0.023 (1)	0.030 (1)	0.021 (1)		
Power input - 60Hz	Cooling	At high fan speed	kW	0.026 (1)	0.035 (1)	0.030 (1)		
	Heating	At high fan speed	kW	0.026 (1)	0.035 (1)	0.030 (1)		
Dimensions	Unit	Height	mm	200				
		Width	mm	750				
		Depth	mm	620				
	Packed unit	Height	mm	260				
		Width	mm	922				
		Depth	mm	768				
Weight	Unit	kg	22.0			23.0		
	Packed unit	kg	25.0			26.0		
Casing	Colour	Not painted (galvanised)						
	Material	Galvanised steel						
Required ceiling void >			mm	240				
Heat exchanger	Inside length		mm	500				
	Rows	Quantity	2					
	Fin pitch		mm	1.50				
	Passes	Quantity	1			3		
	Face area		m²	0.063		0.126		
Heat exchanger	Stages	Quantity	6			12		
	Tube type		ø7 Hi-XD					
	Fin Type		Symmetric waffle louvre					
Fan	Type		Sirocco fan					
	Quantity		2					
	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	5.2	6.5	8.0	
			At medium fan speed	m³/min	4.9	6.2	7.2	
			At low fan speed	m³/min	4.7	5.8	6.4	
		Heating	At high fan speed	m³/min	5.2	6.5	8.0	
			At medium fan speed	m³/min	4.9	6.2	7.2	
			At low fan speed	m³/min	4.7	5.8	6.4	
	Air flow rate - 60Hz	Cooling	At high fan speed	cfm	184	230	283	
			At medium fan speed	cfm	173	219	254	
			At low fan speed	cfm	166	205	226	
		Heating	At high fan speed	cfm	184	230	283	
			At medium fan speed	cfm	173	219	254	
			At low fan speed	cfm	166	205	226	
	External static pressure - 50Hz	Factory set	Pa	10				
		High	Pa	30				
	Sound power level	Cooling	At high fan speed	dBA	48	50	51	
Sound pressure level	Cooling	At high fan speed	dBA	29.0	32.0	33.0		
		At medium fan speed	dBA	28.0	31.0			
		At low fan speed	dBA	26.0	27.0			
	Heating	At high fan speed	dBA	29.0	32.0	33.0		
		At medium fan speed	dBA	28.0	31.0			
		At low fan speed	dBA	26.0	27.0			
Fan motor	Quantity	1						
	Output	Max	W	44				
Refrigerant	Type	R-32						
	GWP	675.0						
	Control	Electronic expansion valve						

2 Specifications

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Technical specifications			FXDA10A	FXDA15A	FXDA20A	FXDA25A
Piping connections	Liquid	Type	Flare connection			
		OD	mm	6		
	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				FXDA32A	FXDA40A	FXDA50A	FXDA63A
Cooling capacity	Sensible capacity	At high fan speed	kW	2.50	3.00	3.80	4.80
		At medium fan speed	kW	2.10	2.60	3.20	3.90
		At low fan speed	kW	1.80	2.20	2.70	3.10
	Latent capacity	At high fan speed	kW	1.10	1.50	1.80	2.30
		At medium fan speed	kW	1.00	1.30	1.50	1.90
		At low fan speed	kW	0.90	1.20	1.30	1.60
	Total capacity	At high fan speed	kW	3.60	4.50	5.60	7.10
		At medium fan speed	kW	3.10	3.90	4.70	5.80
		At low fan speed	kW	2.70	3.40	4.00	4.70
Heating capacity	Total capacity	At high fan speed	kW	4.00	5.00	6.30	8.00
		At medium fan speed	kW	3.40	4.20	5.10	6.30
		At low fan speed	kW	2.90	3.60	4.10	5.00
Power input - 50Hz	Cooling	At high fan speed	kW	0.035 (1)	0.038 (1)	0.049 (1)	0.058 (1)
		At medium fan speed	kW	0.030 (1)	0.031 (1)	0.039 (1)	0.046 (1)
		At low fan speed	kW	0.025 (1)		0.031 (1)	0.035 (1)
	Heating	At high fan speed	kW	0.035 (1)	0.038 (1)	0.049 (1)	0.058 (1)
		At medium fan speed	kW	0.030 (1)	0.031 (1)	0.039 (1)	0.046 (1)
		At low fan speed	kW	0.025 (1)		0.031 (1)	0.035 (1)
Power input - 60Hz	Cooling	At high fan speed	kW	0.035 (1)	0.038 (1)	0.049 (1)	0.058 (1)
	Heating	At high fan speed	kW	0.035 (1)	0.038 (1)	0.049 (1)	0.058 (1)
Dimensions	Unit	Height	mm	200			
		Width	mm	750	950	1,150	
		Depth	mm	620			
	Packed unit	Height	mm	260			
		Width	mm	922	1,122	1,322	
		Depth	mm	768			
Weight	Unit	kg	23.0	26.5		30.5	
	Packed unit	kg	26.0	29.0		33.0	
Casing	Colour		Not painted (galvanised)				
	Material		Galvanised steel				
Required ceiling void >			mm	240			
Heat exchanger	Inside length		mm	500	700		900
	Rows	Quantity	3				
	Fin pitch		mm	1.50			
	Passes	Quantity	6				
	Face area		m²	0.126	0.176		0.227
Heat exchanger	Stages	Quantity	12				
	Empty tubeplate hole	Quantity	4	-			
	Tube type		ø7 Hi-XD				
	Fin	Type	Symmetric waffle louvre				

2 Specifications

1 - 1 FXDA-A

Technical specifications				FXDA32A	FXDA40A	FXDA50A	FXDA63A	
Fan	Type			Sirocco fan				
	Quantity			2	3		4	
	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	8.0	10.5	12.5	16.5
			At medium fan speed	m³/min	7.2	9.5	11.0	14.5
			At low fan speed	m³/min	6.4	8.5	10.0	13.0
		Heating	At high fan speed	m³/min	8.0	10.5	12.5	16.5
			At medium fan speed	m³/min	7.2	9.5	11.0	14.5
			At low fan speed	m³/min	6.4	8.5	10.0	13.0
	Air flow rate - 60Hz	Cooling	At high fan speed	cfm	283	371	441	583
			At medium fan speed	cfm	254	335	388	512
			At low fan speed	cfm	226	300	353	459
		Heating	At high fan speed	cfm	283	371	441	583
			At medium fan speed	cfm	254	335	388	512
			At low fan speed	cfm	226	300	353	459
	External static pressure - 50Hz	Factory set		Pa	10	15		
		High		Pa	30	44		
Sound power level	Cooling	At high fan speed		dB(A)	51	52	53	54
Sound pressure level	Cooling	At high fan speed		dB(A)	33.0	34.0	35.0	36.0
		At medium fan speed		dB(A)	31.0	32.0	33.0	34.0
		At low fan speed		dB(A)	27.0	28.0	29.0	30.0
	Heating	At high fan speed		dB(A)	33.0	34.0	35.0	36.0
		At medium fan speed		dB(A)	31.0	32.0	33.0	34.0
		At low fan speed		dB(A)	27.0	28.0	29.0	30.0
Fan motor	Quantity			1				
	Output	Max	W	44	65			
Refrigerant	Type			R-32				
	GWP			675.0				
	Control			Electronic expansion valve				
Piping connections	Liquid	Type		Flare connection				
		OD		6				
	Gas	Type		Flare connection				
		OD		9.52	12.70			
	Drain			VP20 (I.D. 20/O.D. 26)				
Piping connections	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
Power supply	Name		VE			
	Phase		1~			
	Frequency	Hz	50/60			
	Voltage	V	220-240/220			
Current - 50Hz	Minimum circuit amps (MCA)	A	0.3		0.4	
	Maximum fuse amps (MFA)	A	6			
	Full load amps (FLA) Total	A	0.2		0.3	
Current - 60Hz	Minimum circuit amps (MCA)	A	0.3		0.4	
	Maximum fuse amps (MFA)	A	6			
	Full load amps (FLA) Total	A	0.2		0.3	

2 Specifications

1 - 1 FXDA-A

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Electrical specifications			FXDA32A	FXDA40A	FXDA50A	FXDA63A
Power supply	Name		VE			
	Phase		1~			
	Frequency	Hz	50/60			
	Voltage	V	220-240/220			
Current - 50Hz	Minimum circuit amps (MCA)	A	0.4	0.5		0.6
	Maximum fuse amps (MFA)	A	6			
	Full load amps (FLA) Total	A	0.3	0.4		0.5
Current - 60Hz	Minimum circuit amps (MCA)	A	0.4	0.5		0.6
	Maximum fuse amps (MFA)	A	6			
	Full load amps (FLA) Total	A	0.3	0.4		0.5

(1)Values are valid for the factory setting. |

(2)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m |

(3)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m |

(4)Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. |

(5)External static pressure is changeable to set by the remote control (from standard to high, see installation manual) |

(6)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |

(7)Maximum allowable voltage range variation between phases is 2%. |

(8)MCA/MFA: MCA = 1.1 x FLA |

(9)Instead of a fuse, use a circuit breaker |

(10)Select wire size based on the value of MCA |

(11)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

FXDA-A

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 ②	✓	✓	✓
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	BRP069CS1 ②	✓	✓	✓

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.

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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

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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 × H-					
	L	Correction factor -0.88 × H-					
15	H	1,5	1,4	1,3	1,2	1,2	1,1
	M	Correction factor -0.84 × H-					
	L	Correction factor -0.79 × H-					
20	H	2,9	2,7	2,5	2,4	2,3	2,1
	M	Correction factor -0.84 × H-					
	L	Correction factor -0.72 × H-					
25	H	3,7	3,5	3,2	3,1	2,9	2,7
	M	Correction factor -0.84 × H-					
	L	Correction factor -0.72 × H-					
32	H	4,7	4,3	4,0	3,8	3,7	3,3
	M	Correction factor -0.85 × H-					
	L	Correction factor -0.73 × H-					
40	H	5,8	5,4	5,0	4,8	4,6	4,2
	M	Correction factor -0.84 × H-					
	L	Correction factor -0.72 × H-					
50	H	7,4	6,8	6,3	6,0	5,8	5,3
	M	Correction factor -0.81 × H-					
	L	Correction factor -0.65 × H-					
63	H	9,3	8,7	8,0	7,7	7,3	6,7
	M	Correction factor -0.79 × H-					
	L	Correction factor -0.63 × H-					

Notes

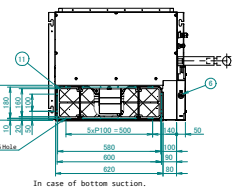
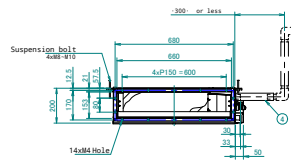
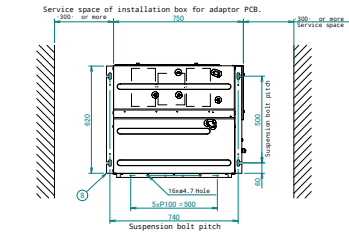
- 1) TC: Total capacity [kW]
- 2) Outdoor temperature -7.°C DB / -6.°C WB

3D129395

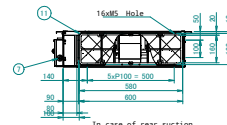
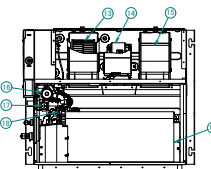
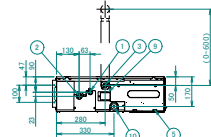
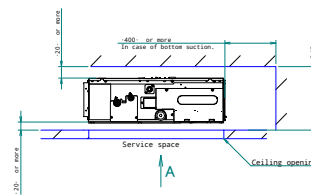
7 Dimensional drawings

7 - 1 Dimensional Drawings

FXDA10-32A



- Notes
1. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
 2. In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.
 3. The unit nameplate is located on the control box cover.
 4. 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.

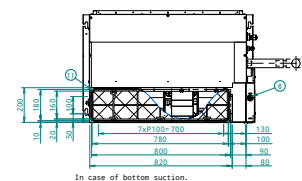
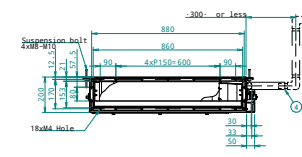
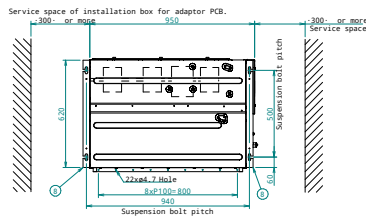


In case of rear suction.

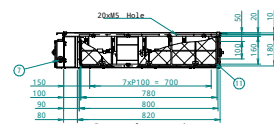
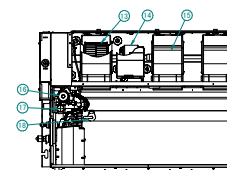
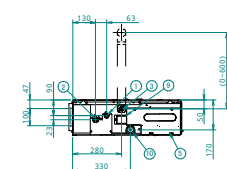
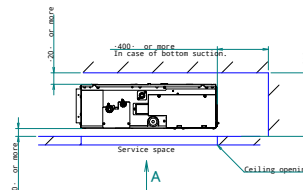
Item	
1	Liquid pipe connection - $\phi 6.35$ Flare connection
2	Gas pipe connection - $\phi 9.52$ Flare connection
3	Drain pipe connection Outside diameter: $\phi 26$ Inside diameter: $\phi 20$
4	Drain hose (accessory) Inside diameter: $\phi 25$
5	Control box
6	Transmission wiring connection
7	Power 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

2D126395

FXDA40A FXDA50A



- Notes
1. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.
 2. In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.
 3. The unit nameplate is located on the control box cover.
 4. 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.



In case of rear suction.

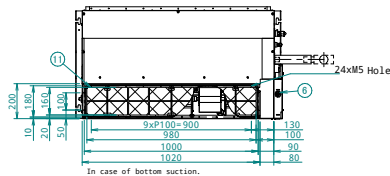
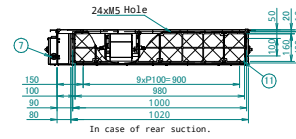
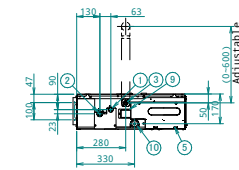
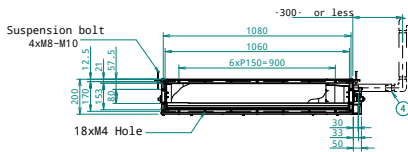
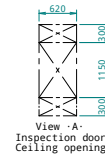
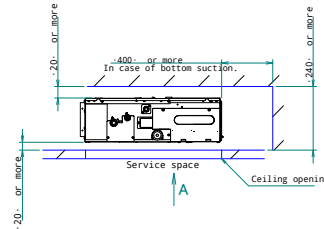
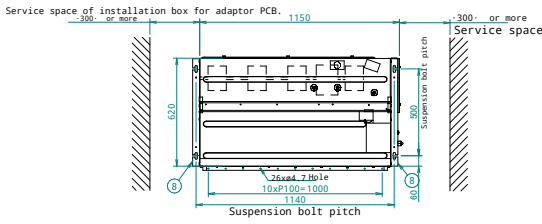
Item	
1	Liquid pipe connection - $\phi 6.35$ Flare connection
2	Gas pipe connection - $\phi 12.70$ Flare connection
3	Drain pipe connection Outside diameter: $\phi 26$ Inside diameter: $\phi 20$
4	Drain hose (accessory) Inside diameter: $\phi 25$
5	Control box
6	Transmission wiring connection
7	Power 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

2D126677

7 Dimensional drawings

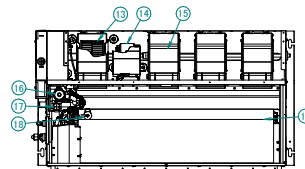
7 - 1 Dimensional Drawings

FXDA63A



Notes

1. In case of bottom suction, mount the chamber cover to the backside of the unit.
For more information, refer to the installation manual.
2. In case of rear suction, mount the chamber cover to the bottom side of the unit.
For more information, refer to the installation manual.
3. The unit nameplate is located on the control box cover.
4. 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.



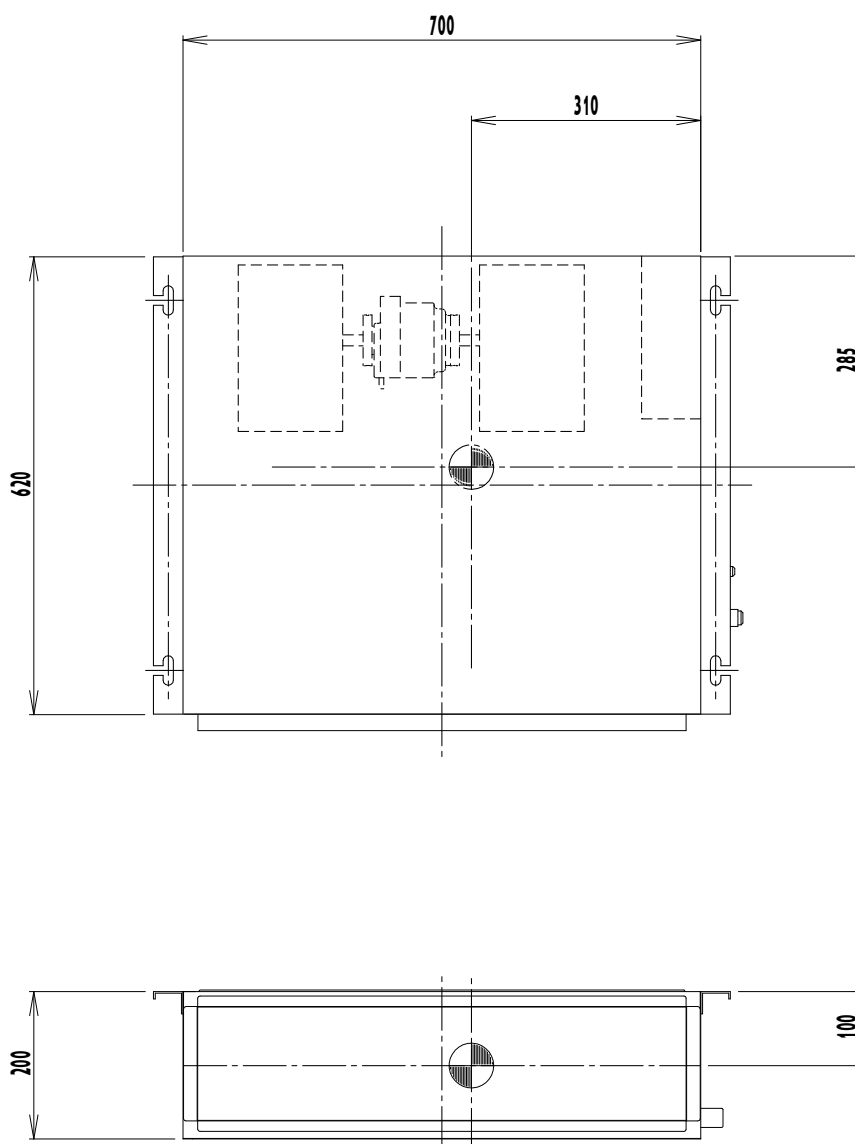
Item	
1	Liquid pipe connection •ø6.35 Flare connection
2	Gas pipe connection •ø12.70 Flare connection
3	Drain pipe connection Outside diameter: ø26 Inside diameter: ø20
4	Drain hose (accessory) Inside diameter: ø25
5	Control box
6	Transmission wiring connection
7	Power supply connection
8	Suspension 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

2D126592

8 Centre of gravity

8 - 1 Centre of Gravity

FXDA10-32A

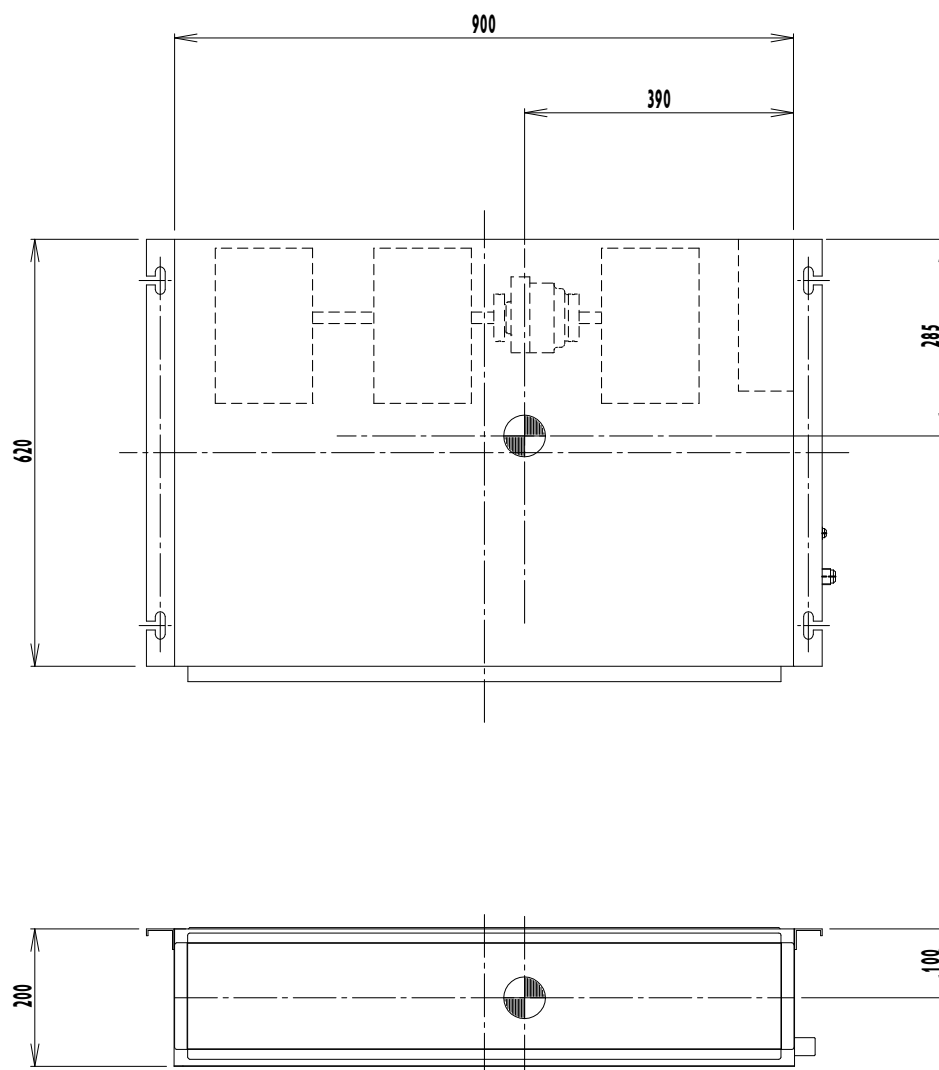


4D081430B

8 Centre of gravity

8 - 1 Centre of Gravity

FXDA40-50A

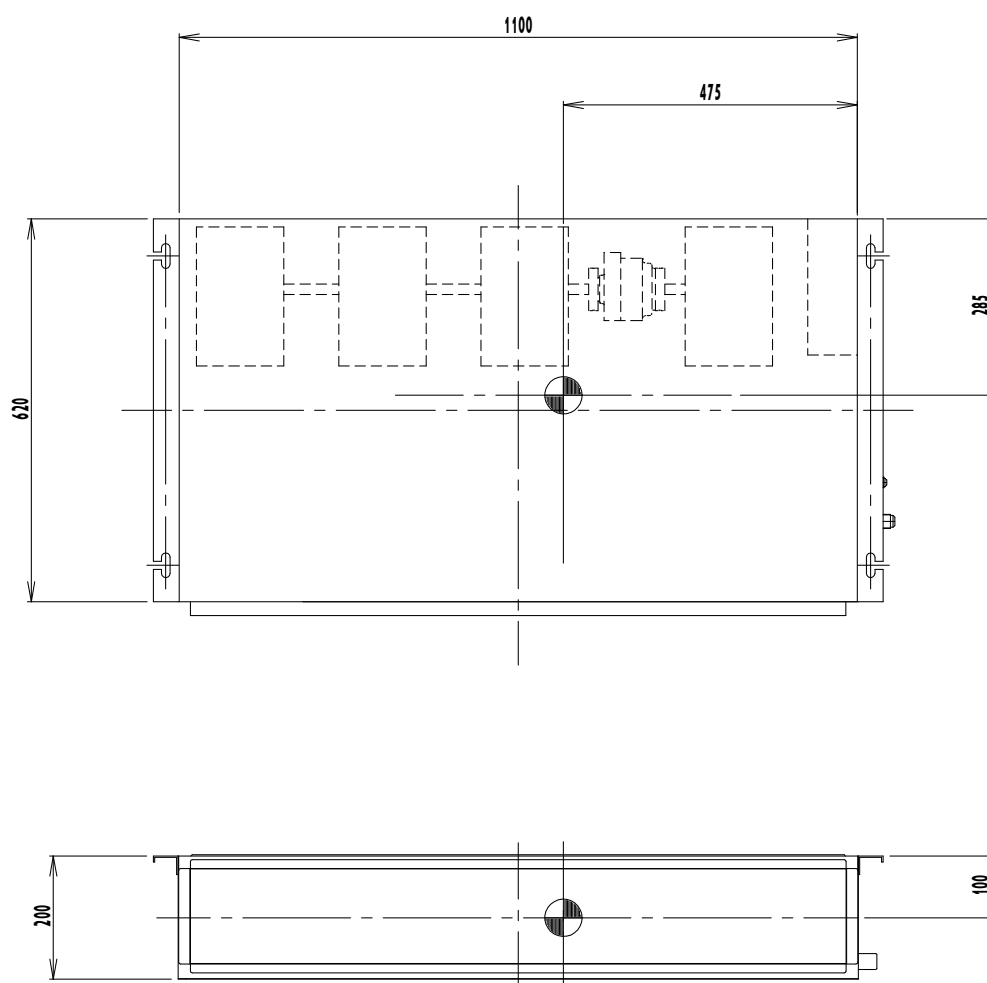


4D081431B

8 Centre of gravity

8 - 1 Centre of Gravity

FXDA63A



4D081433B

9 Piping diagrams

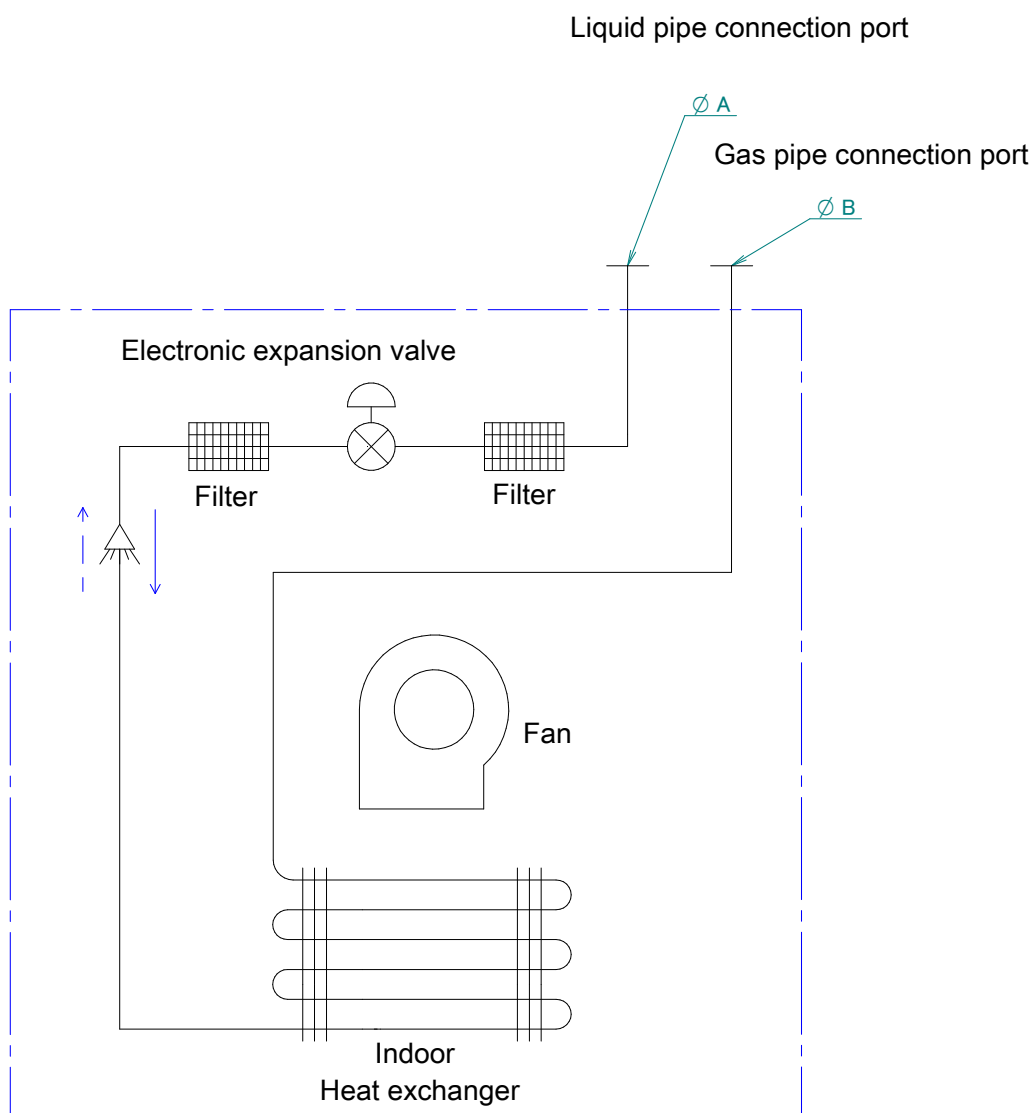
9 - 1 Piping Diagrams

FXDA-A

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

REFRIGERANT FLOW

COOLING ———→
HEATING - - - - -→



10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

10

FXDA-A

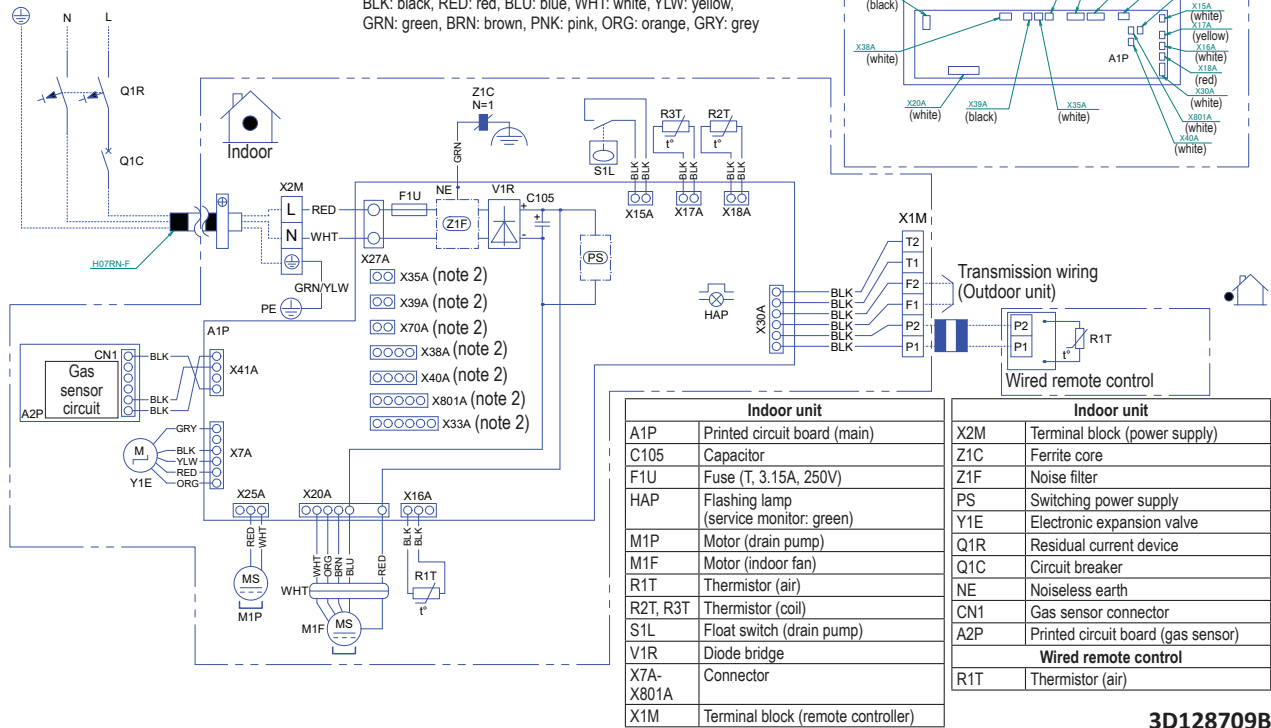
Wiring diagram

NOTES

1. : terminal block, : connector, : field wiring
2. X33A, X35A, X38A, X39A, X40A, X70A, X801A are connected when optional accessories are being used, see wiring diagram of this accessory.

WIRE COLOURS

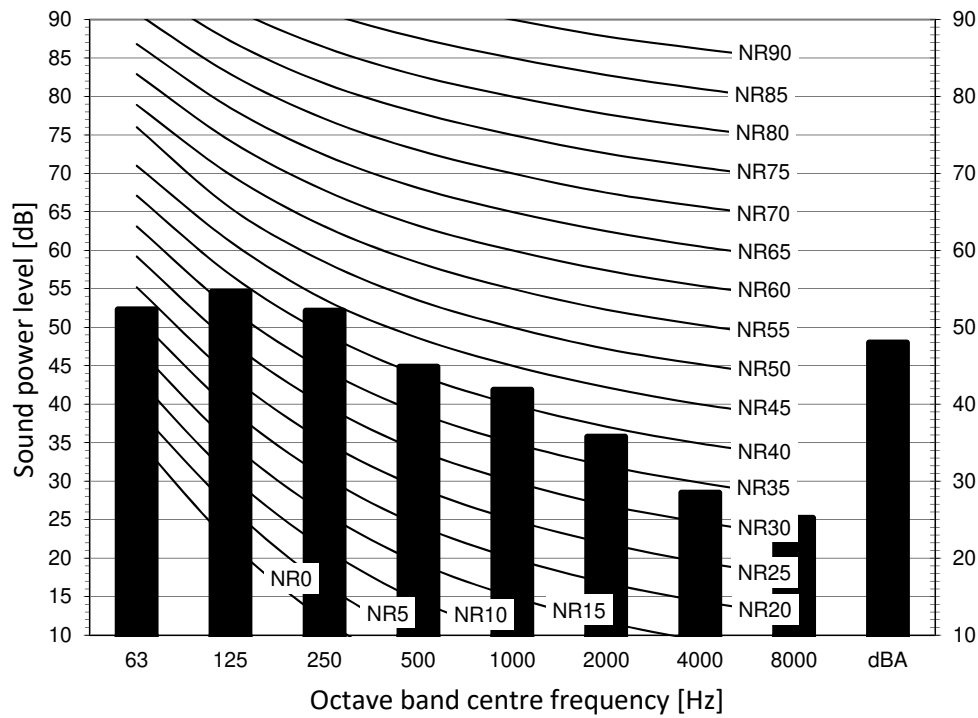
BLK: black, RED: red, BLU: blue, WHT: white, YLW: yellow, GRN: green, BRN: brown, PNK: pink, ORG: orange, GRY: grey



11 Sound data

11 - 1 Sound Power Spectrum

FXDA10A

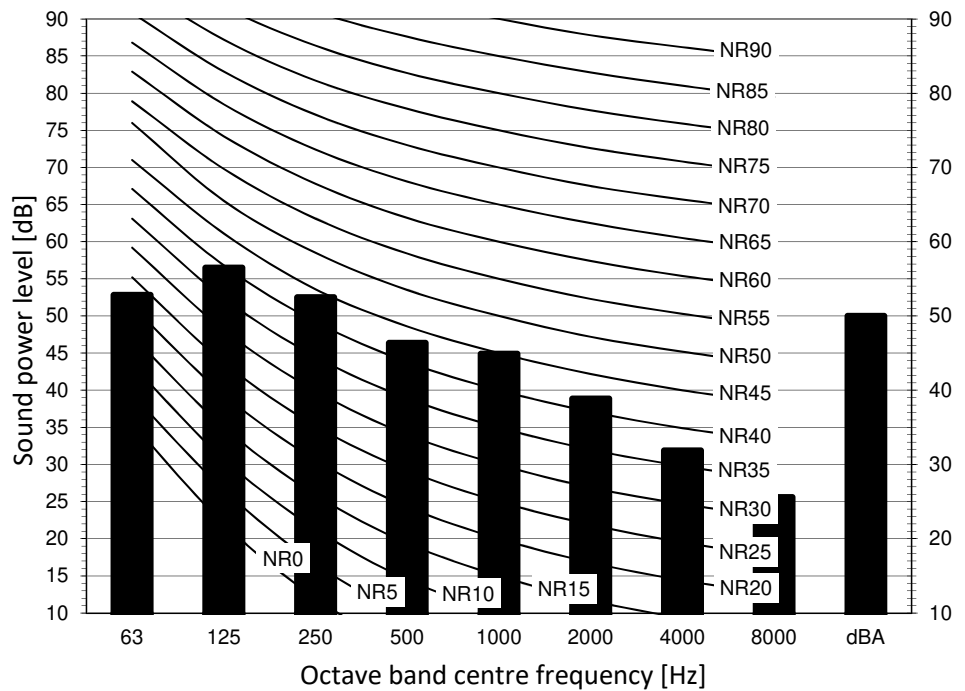


Notes

- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic pressure 0 dB = 10^{-6} W/m²
- 3 Measured according to ISO 3744

4D129503

FXDA15A



Notes

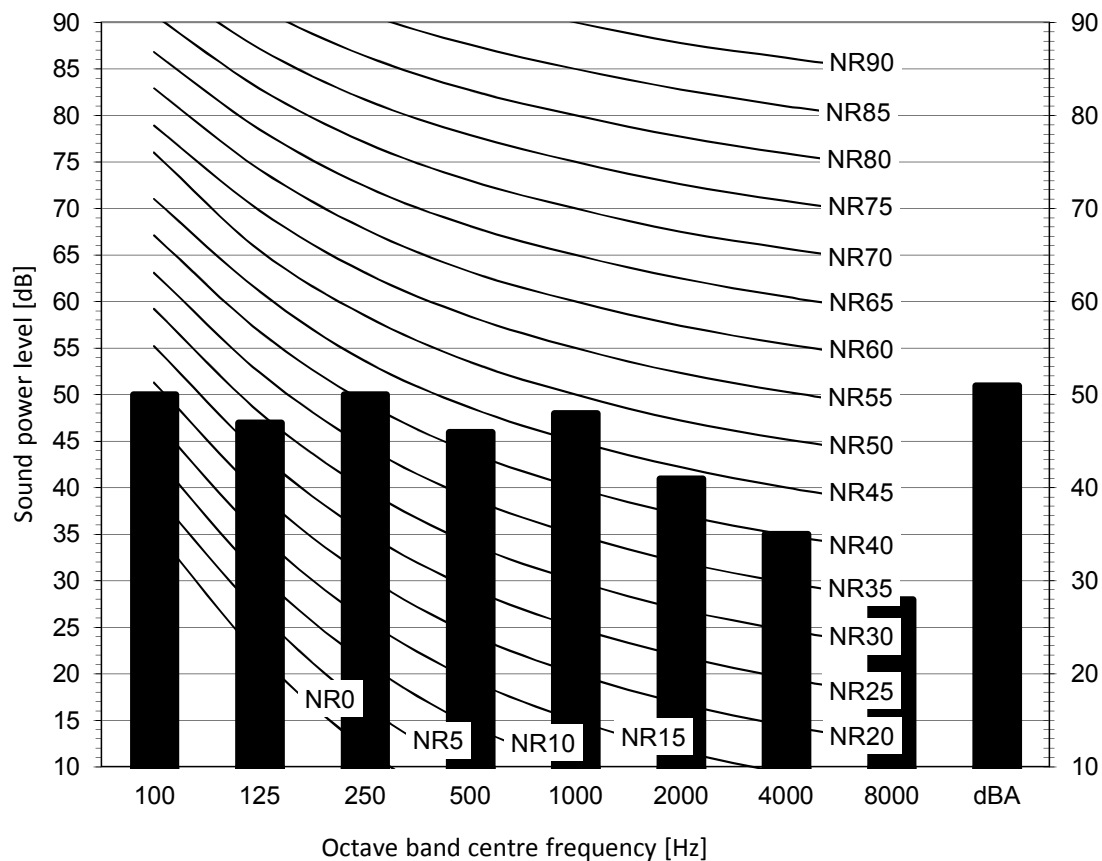
- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic pressure 0 dB = 10^{-6} W/m²
- 3 Measured according to ISO 3744

4D129504

11 Sound data

11 - 1 Sound Power Spectrum

FXDA20A



Notes

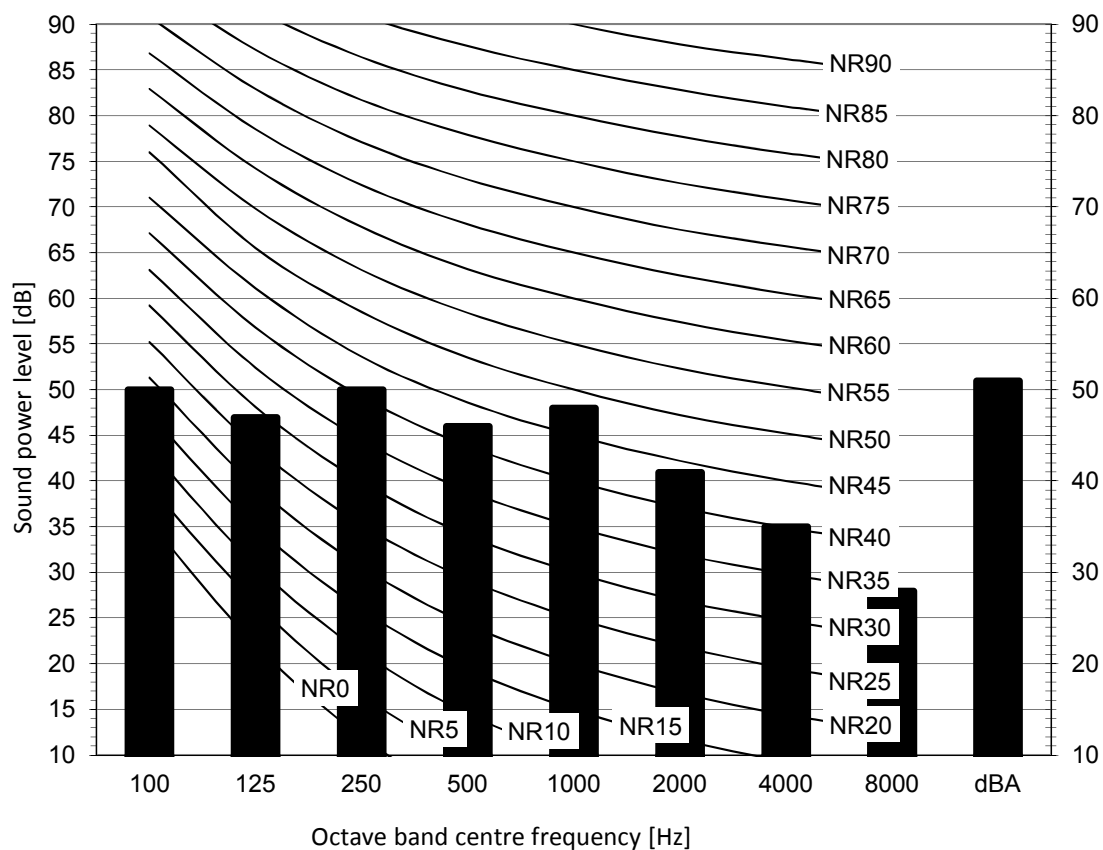
- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = 10^{-6} W/m^2
- 3 Measured according to ISO 3744

4D088132

11 Sound data

11 - 1 Sound Power Spectrum

FXDA25A



Notes

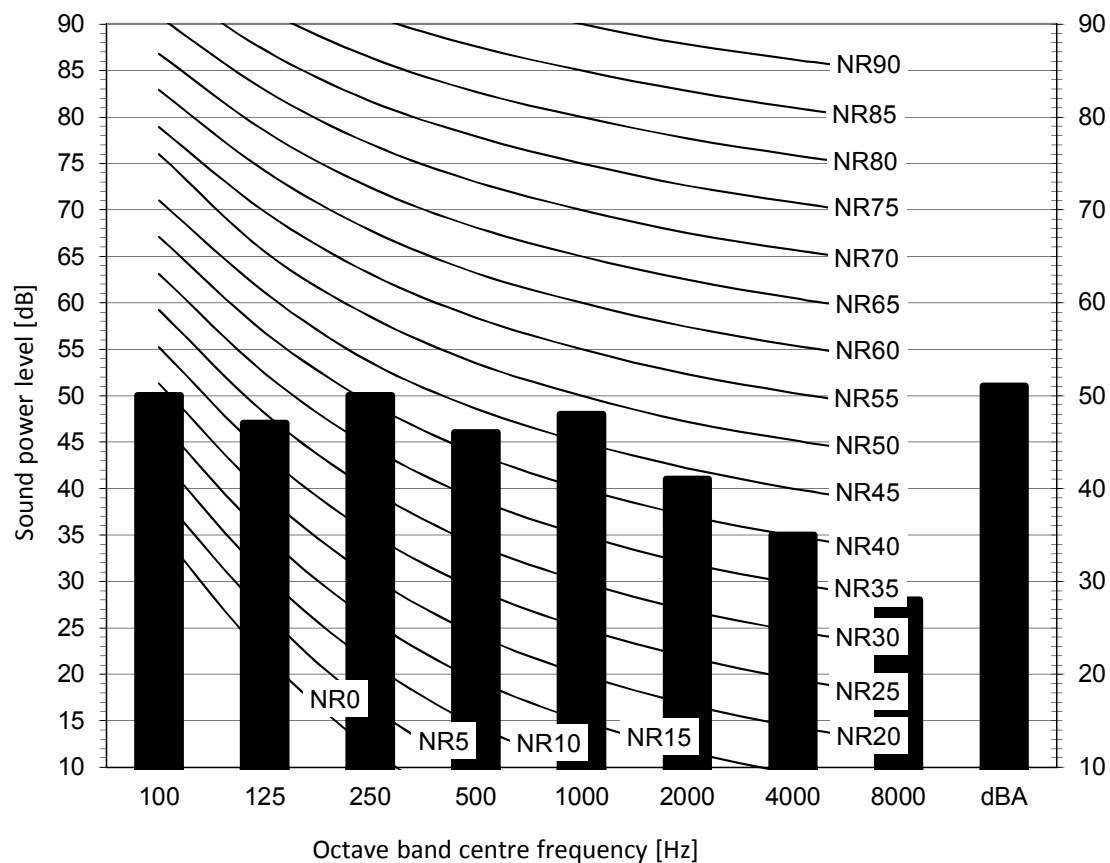
- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = $10E-6W\mu/m^2$
- 3 Measured according to ISO 3744

4D088133

11 Sound data

11 - 1 Sound Power Spectrum

FXDA32A



Notes

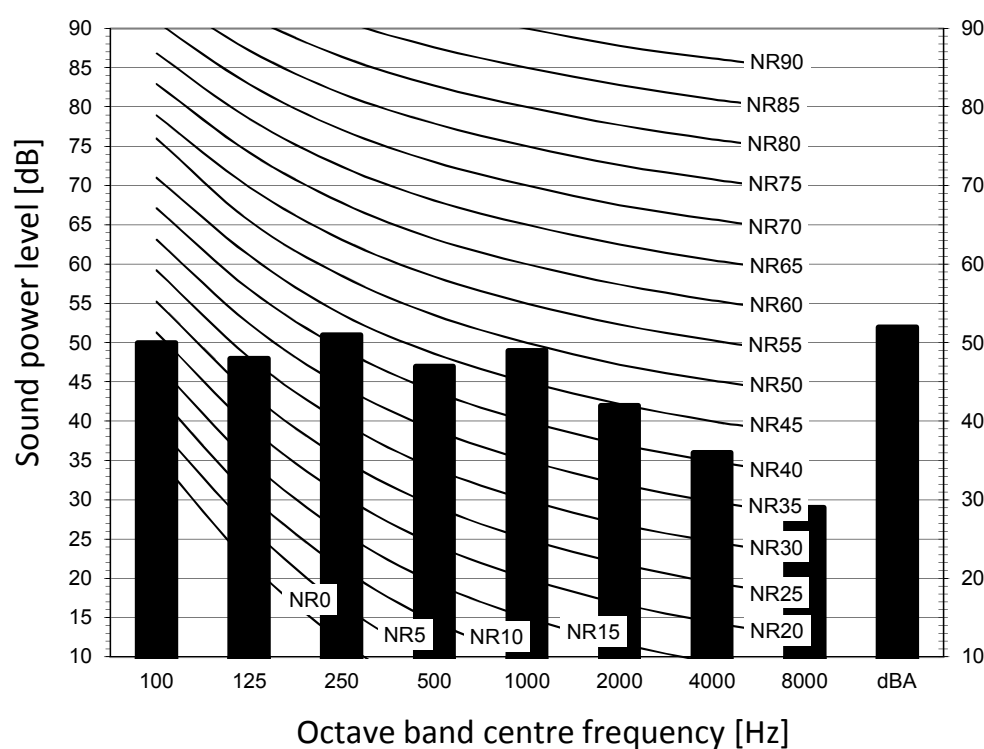
- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = 10^{-6} W/m^2
- 3 Measured according to ISO 3744

4D088134

11 Sound data

11 - 1 Sound Power Spectrum

FXDA40A



Notes

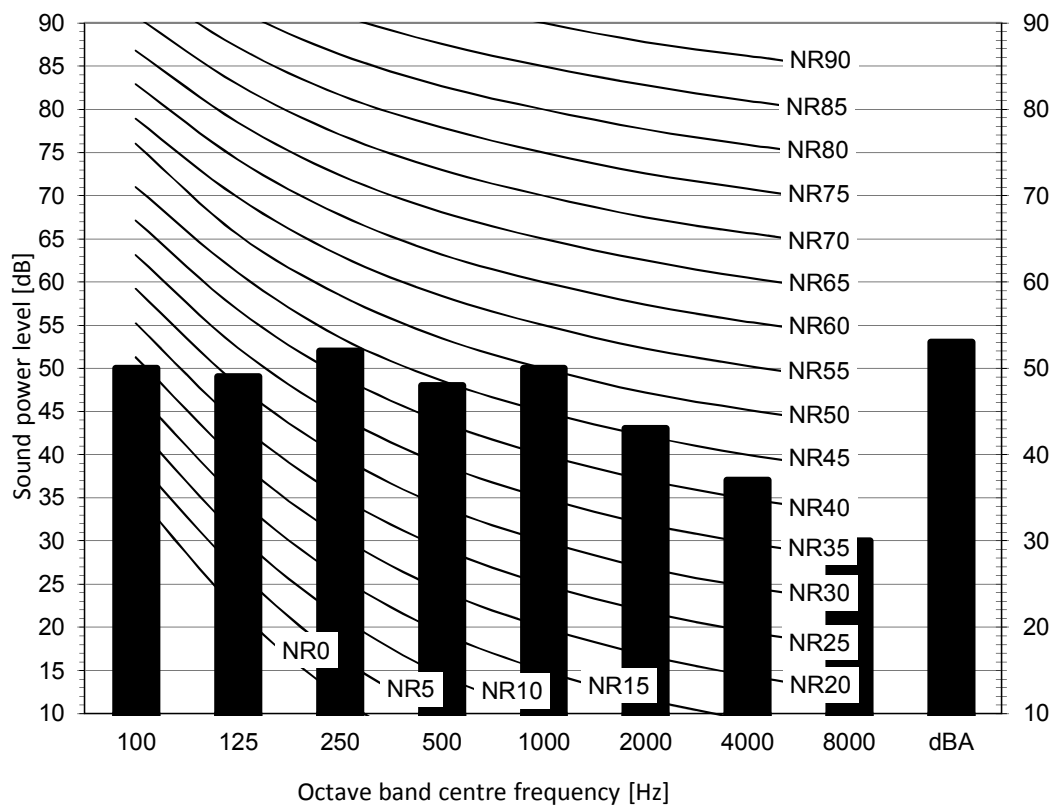
- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = $10E-6W\mu/m^2$
- 3 Measured according to ISO 3744

4D088135

11 Sound data

11 - 1 Sound Power Spectrum

FXDA50A



Notes

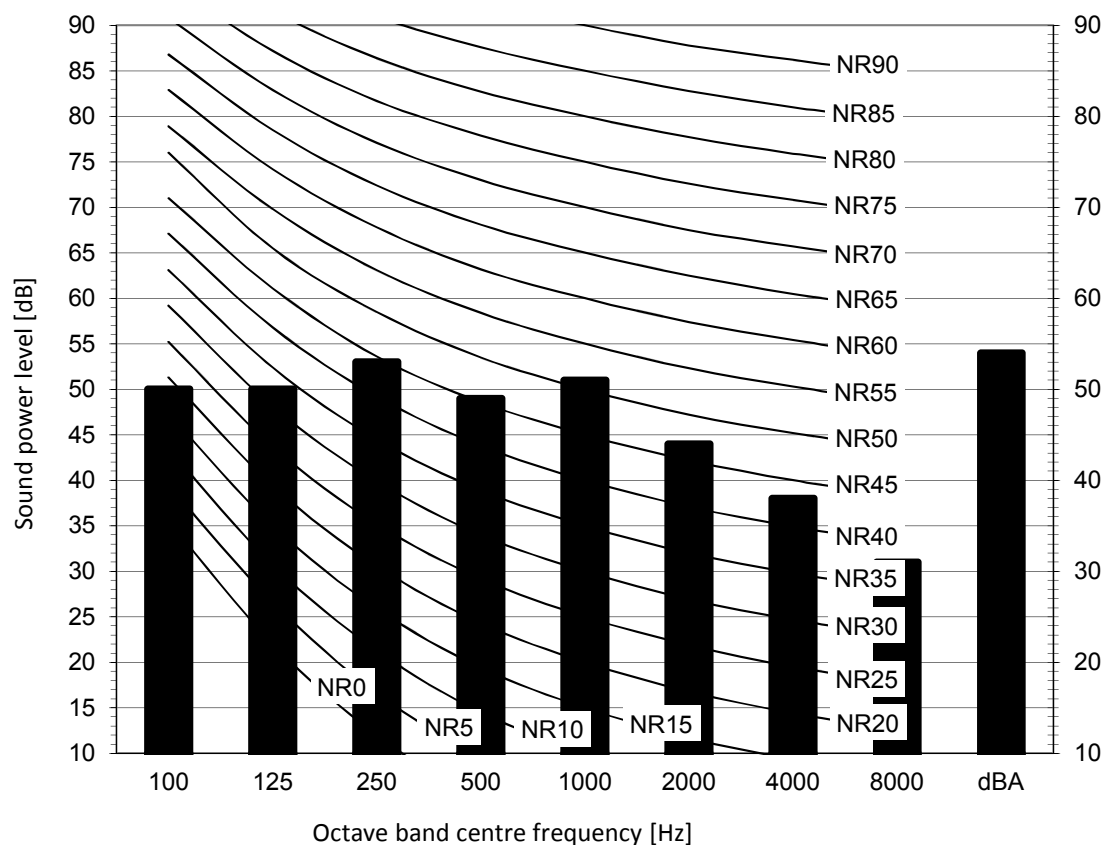
- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = $10E-6W\mu/m^2$
- 3 Measured according to ISO 3744

4D088136

11 Sound data

11 - 1 Sound Power Spectrum

FXDA63A



Notes

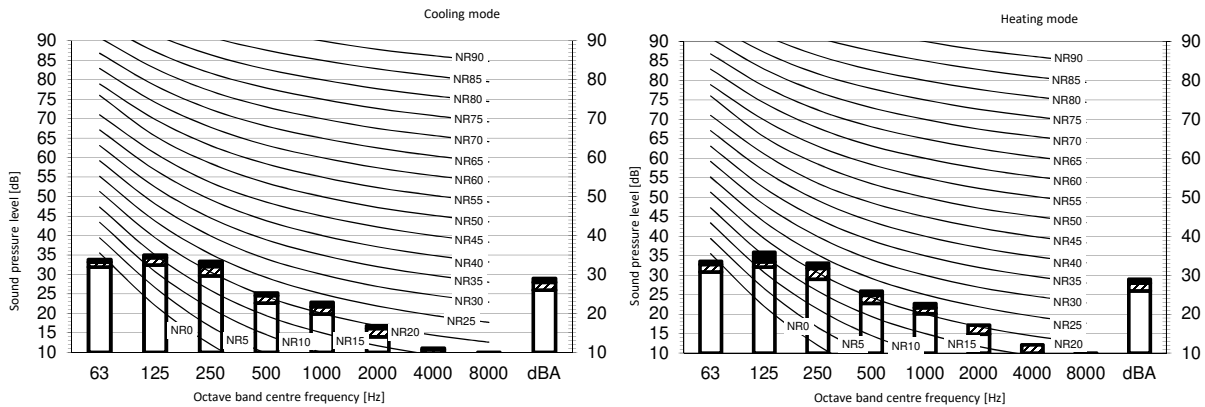
- 1 dBA = A-weighted sound power level (A scale according to IEC).
- 2 Reference acoustic intensity 0dB = $10E-6W\mu/m^2$
- 3 Measured according to ISO 3744

4D088137

11 Sound data

11 - 2 Sound Pressure Spectrum

FXDA10A



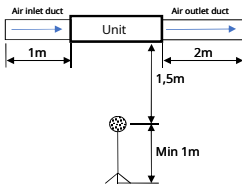
Legend

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

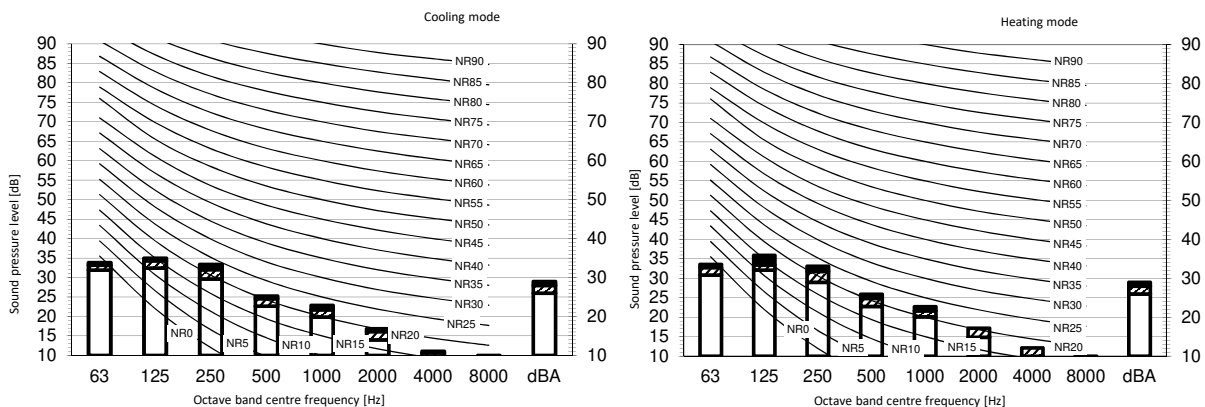
Heating Total dB			
A	B	C	D
dBA	29,0	28,0	26,0

Notes

- 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

3D129500

FXDA15A



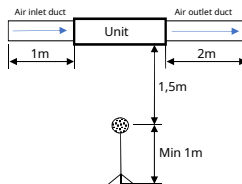
Legend

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

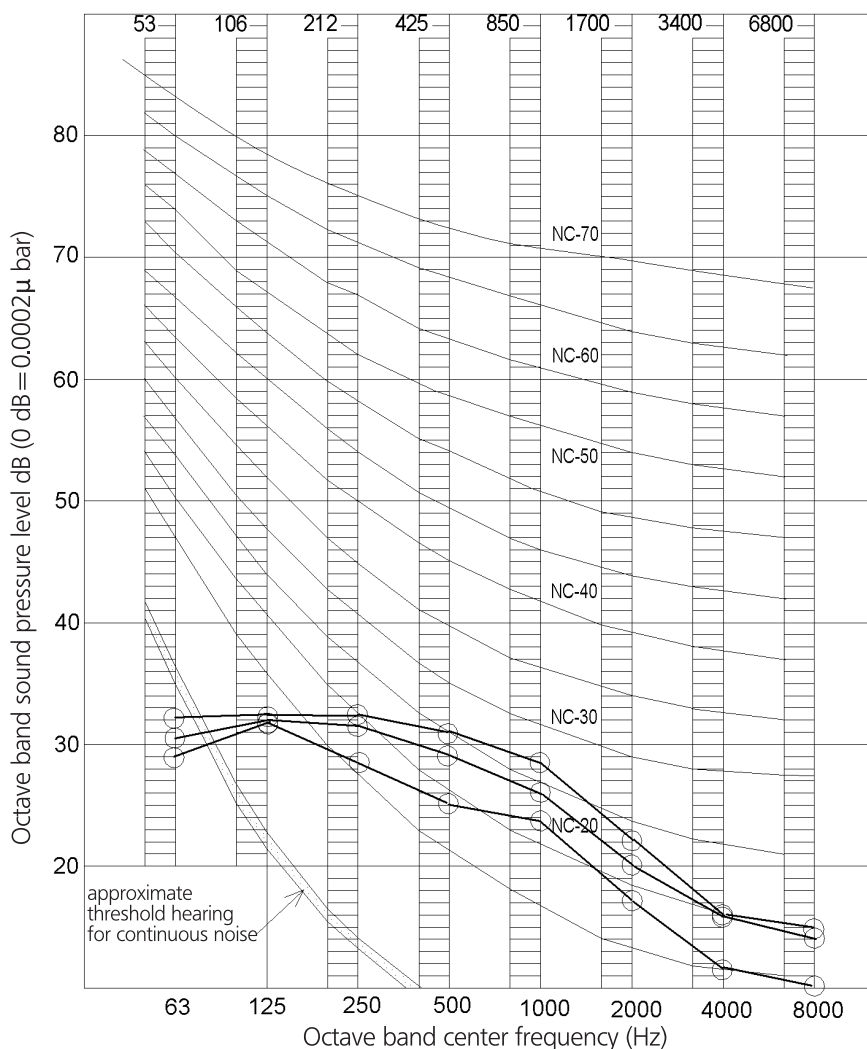
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

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

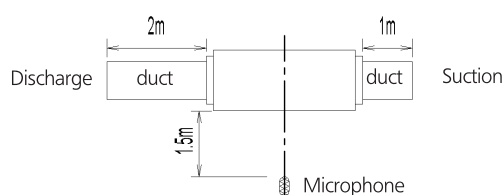
Cooling: Return air temperature: 27°CDB, 19°CWB

Outdoor temperature: 35°CDB, 24°CWB

Heating: Return air temperature: 20°CDB, 15°CWB

Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:

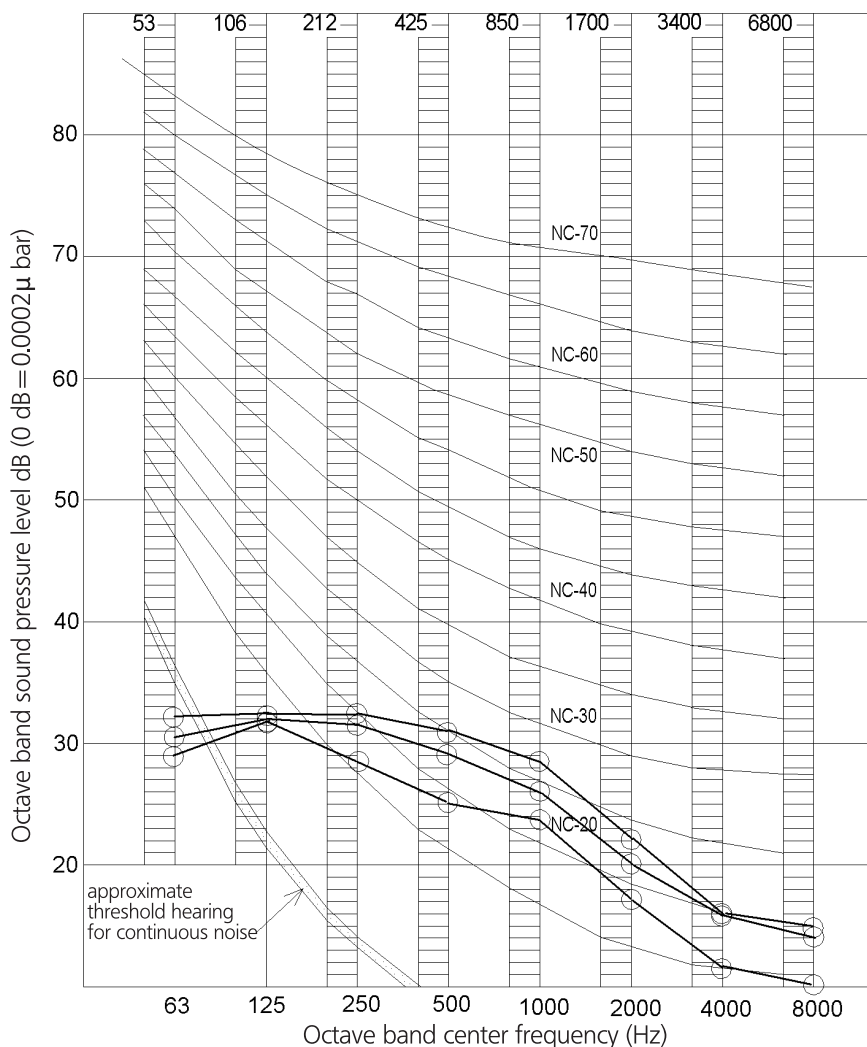


4D081439

11 Sound data

11 - 2 Sound Pressure Spectrum

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

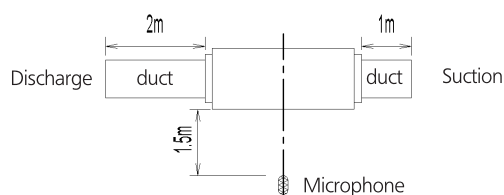
Cooling: Return air temperature: 27°CDB, 19°CWB

Outdoor temperature: 35°CDB, 24°CWB

Heating: Return air temperature: 20°CDB, 15°CWB

Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:

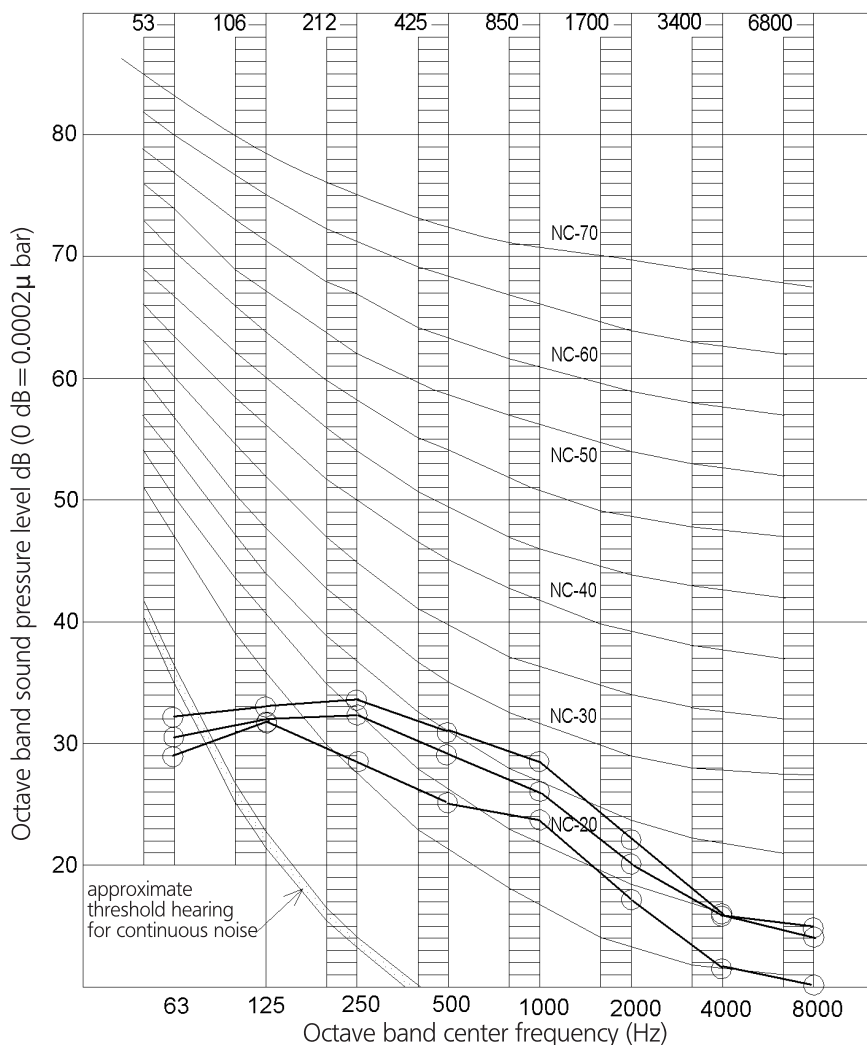


4D081440

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

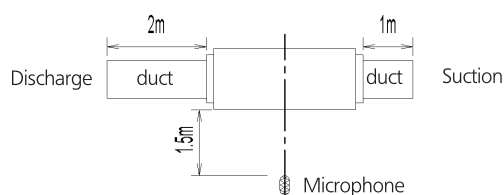
Cooling: Return air temperature: 27°CDB, 19°CWB

Outdoor temperature: 35°CDB, 24°CWB

Heating: Return air temperature: 20°CDB, 15°CWB

Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:

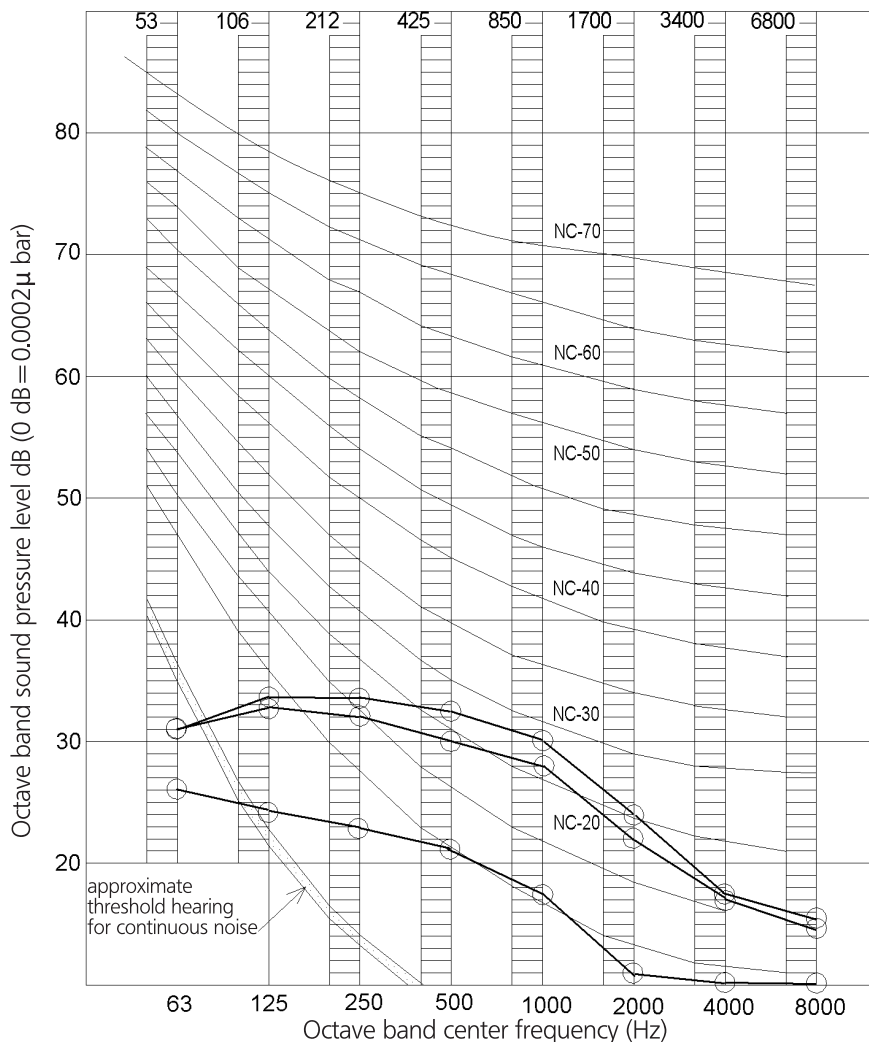


4D081442

11 Sound data

11 - 2 Sound Pressure Spectrum

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

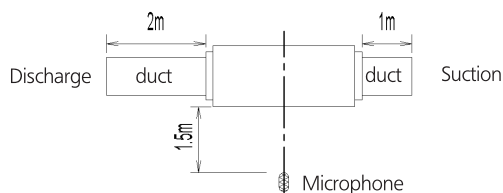
Cooling: Return air temperature: 27°CDB, 19°CWB

Outdoor temperature: 35°CDB, 24°CWB

Heating: Return air temperature: 20°CDB, 15°CWB

Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:

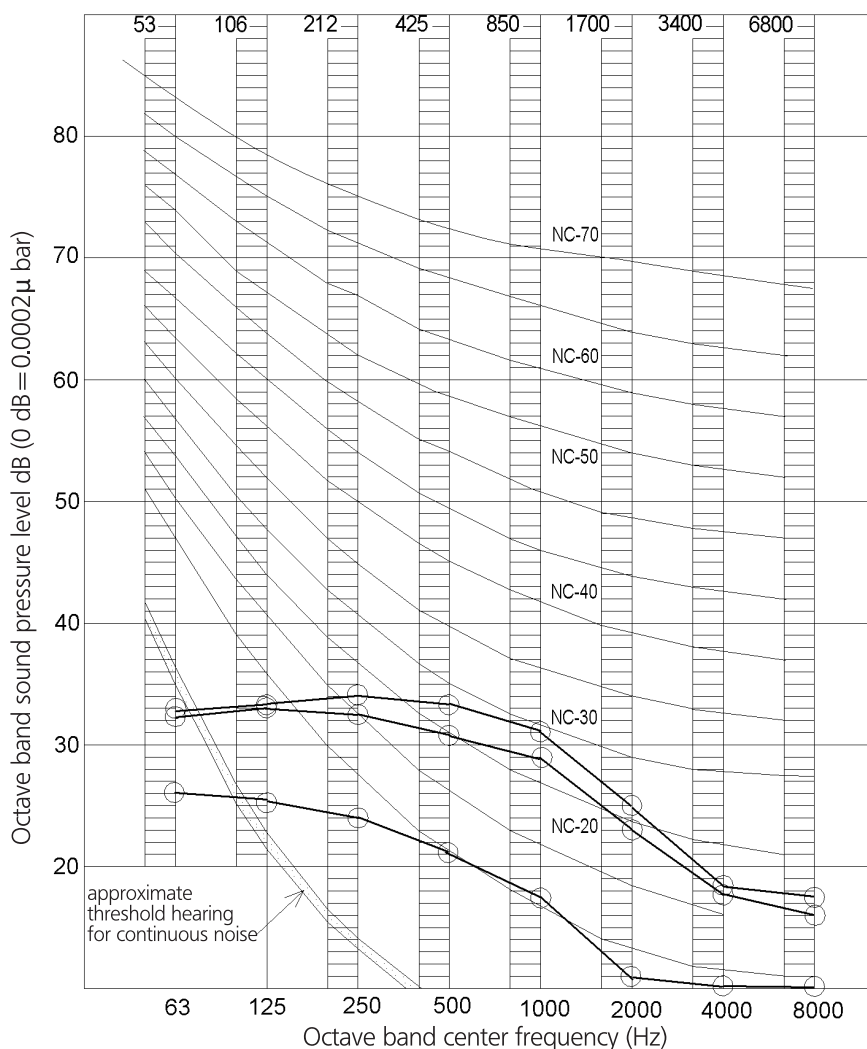


4D081443

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

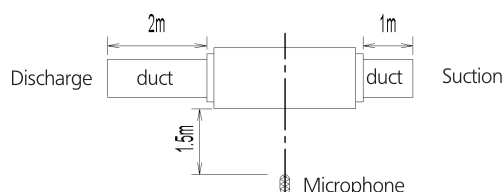
Cooling: Return air temperature: 27°CDB, 19°CWB

Outdoor temperature: 35°CDB, 24°CWB

Heating: Return air temperature: 20°CDB, 15°CWB

Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:

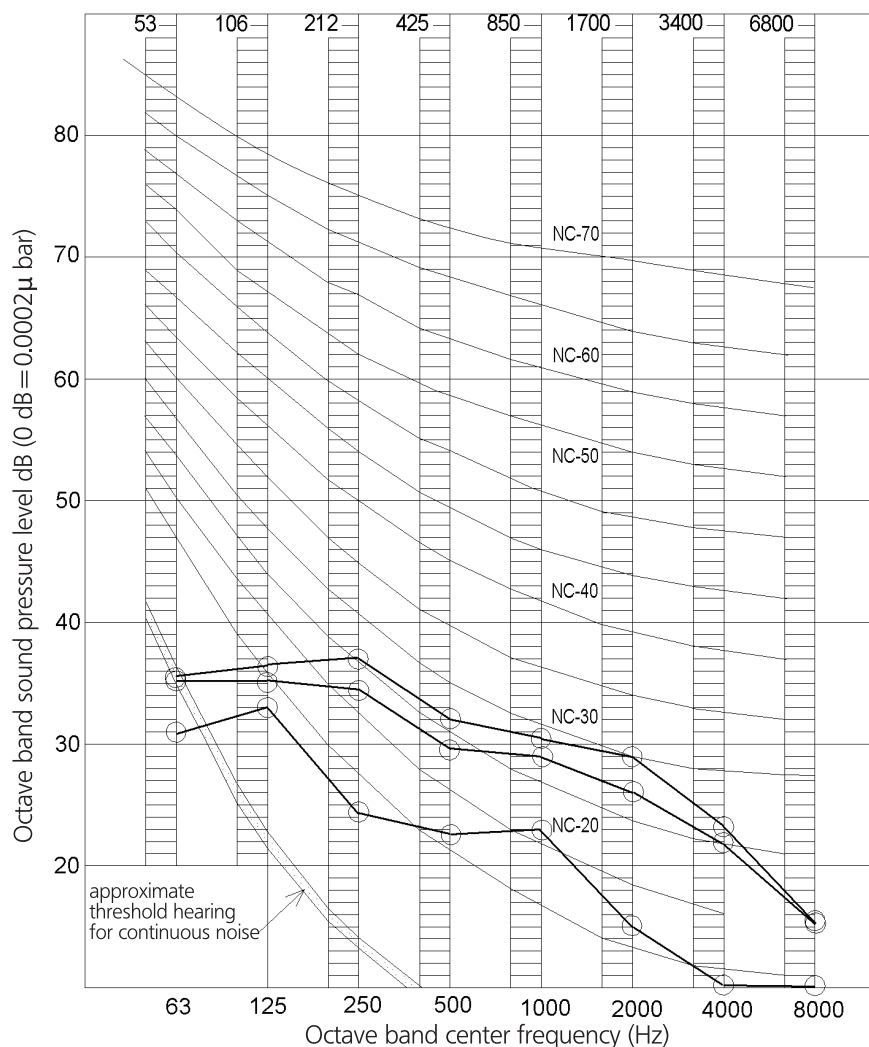


4D081444

11 Sound data

11 - 2 Sound Pressure Spectrum

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

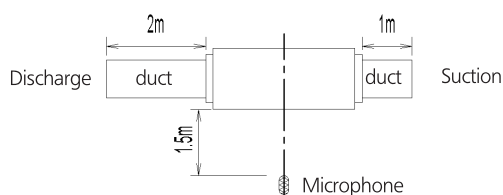
Cooling: Return air temperature: 27°CDB, 19°CWB

Outdoor temperature: 35°CDB, 24°CWB

Heating: Return air temperature: 20°CDB, 15°CWB

Outdoor temperature: 7°CDB, 6°CWB

6 Location of microphone:

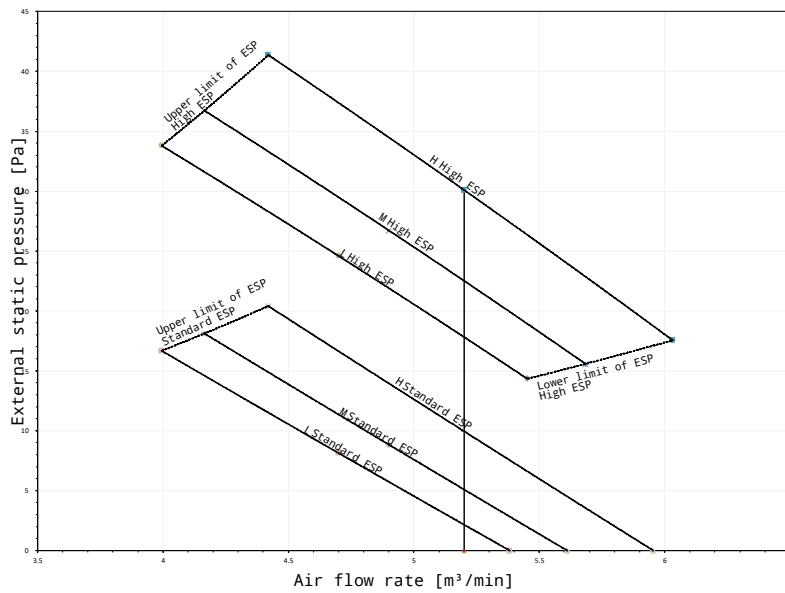


4D081445

12 Fan characteristics

12 - 1 Fan Characteristics

FXDA10A

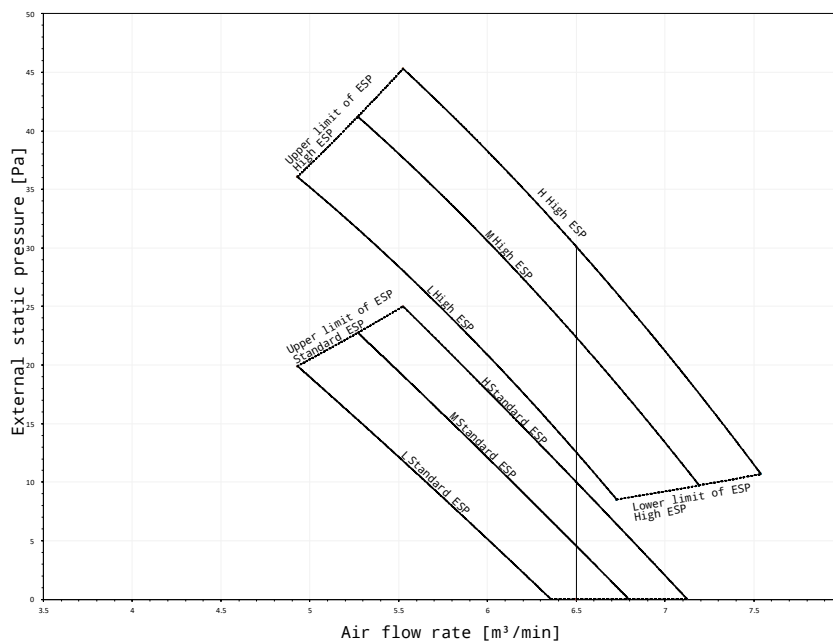


Notes

- 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.

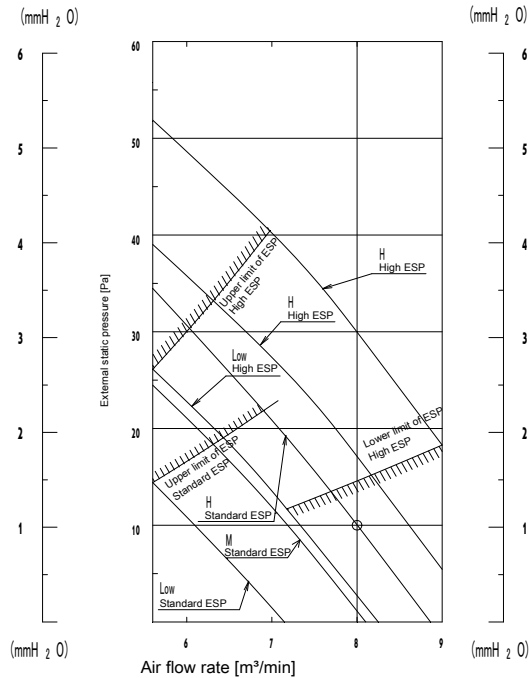
3D129553

12 Fan characteristics

12 - 1 Fan Characteristics

12

FXDA20-25A



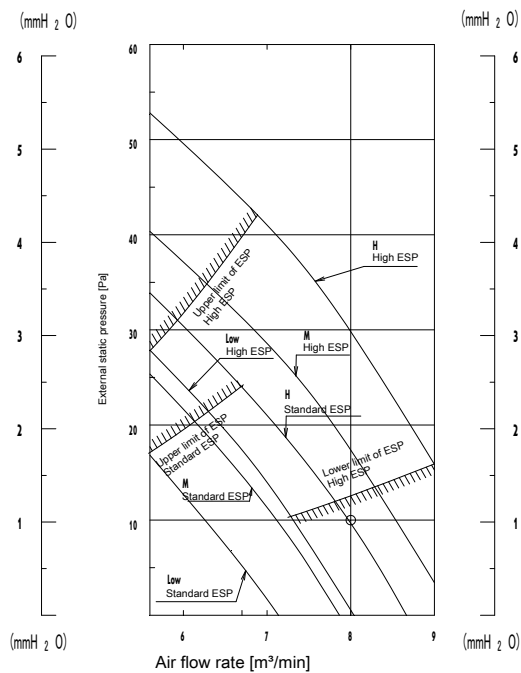
Notes

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 ESP' and 'high ESP' by remote controller setting.

3D086736B

FXDA32A



Notes

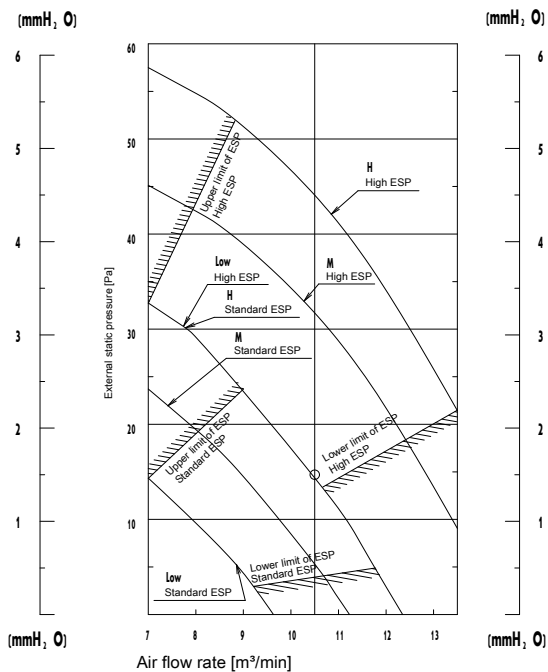
The remote controller can be used to switch between 'high' and 'low'.

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

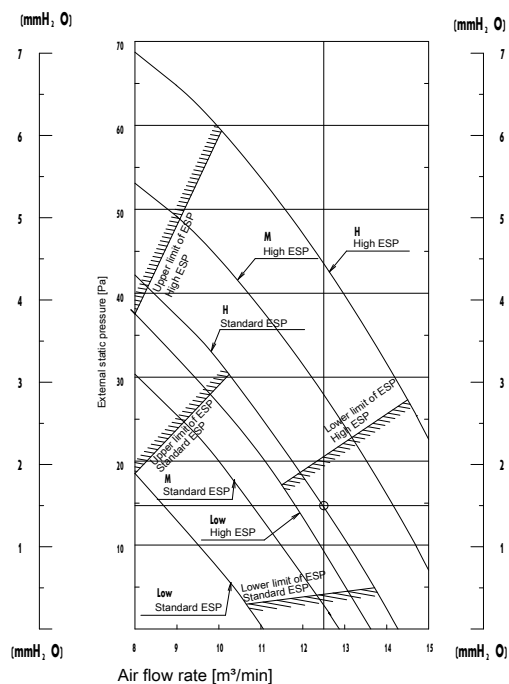
FXDA40A

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

- 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.

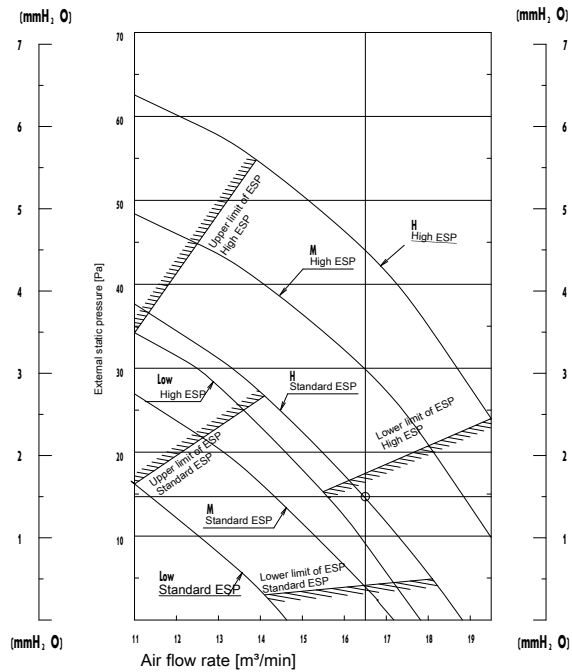
3D081427C

12 Fan characteristics

12 - 1 Fan Characteristics

FXDA63A

12

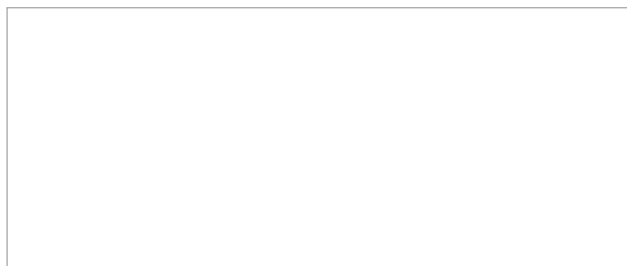


Notes

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



EEDEN22

02/2022



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