

Concealed ceiling unit with high ESP

Air Conditioning Technical Data

FXMA-A



FXMA50A5VEB
FXMA63A5VEB
FXMA80A5VEB
FXMA100A5VEB
FXMA125A5VEB
FXMA200AXVMB
FXMA250AXVMB

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FXMA-A

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1 Features

1 - 1 FXMA-A

Ideal for large sized spaces ESP up to 270 Pa

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- › Optimised design for R-32 refrigerant
- › High external static pressure up to 200Pa facilitates extensive duct and grille network
- › Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- › Discretely concealed in the wall: only the suction and discharge grilles are visible
- › Large capacity unit: up to 31.5 kW heating capacity
- › Automatic air flow adjustment function measures the air volume and static pressure and adjusts it towards the nominal air flow, whatever the length of duct, making installation easier and guaranteeing comfort. Moreover, the ESP can be changed via the wir
- › Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required
- › Flexible installation, as the air suction direction can be altered from rear to bottom suction
- › Standard built-in drain pump with 625mm lift increases flexibility and installation speed



Onecta app (optional)



Home leave operation



Fan only



Auto cooling-heating changeover



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

2 - 1 Specifications

Technical specifications				FXMA50A	FXMA63A	FXMA80A	FXMA100A	FXMA125A	FXMA200A	
Cooling capacity	Sensible capacity	At high fan speed	kW	4.0	5.1	6.7	8.1	10.3	16.4	
		At medium fan speed	kW	3.4	4.2	5.6	6.3	8.4	13.9	
		At low fan speed	kW	2.9	3.4	4.0	4.2	6.6	12.5	
	Latent capacity	At high fan speed	kW	1.6	2.0	2.3	3.1	3.7	6.0	
		At medium fan speed	kW	1.3	1.6	1.9	2.4	3.0	5.1	
		At low fan speed	kW	1.1	1.3	1.4	1.6	2.4	4.5	
	Total capacity	At high fan speed	kW	5.6	7.1	9.0	11.2	14.0	22.4	
		At medium fan speed	kW	4.7	5.8	7.5	8.7	11.4	19	
		At low fan speed	kW	4.0	4.7	5.4	5.8	9.0	17	
Heating capacity	Total capacity	At high fan speed	kW	6.3	8.0	10.0	12.5	16.0	25.0	
		At medium fan speed	kW	5.1	6.3	8.3	9.3	12.8	20.5	
		At low fan speed	kW	4.1	5.0	5.9	6.0	9.8	18	
Power input - 50Hz	Cooling	At high fan speed	kW	0.125	0.140	0.198	0.191	0.254	0.54	
		At medium fan speed	kW	0.100	0.106	0.150	0.121	0.162	0.258	
		At low fan speed	kW	0.079	0.085	0.110	0.082	0.107	0.167	
	Heating	At high fan speed	kW	0.125	0.140	0.198	0.191	0.254	0.54	
		At medium fan speed	kW	0.100	0.106	0.150	0.121	0.162	0.258	
		At low fan speed	kW	0.079	0.085	0.110	0.082	0.107	0.167	
Power input - 60Hz	Cooling	At high fan speed	kW	0.125	0.140	0.198	0.191	0.254	0.54	
	Heating	At high fan speed	kW	0.125	0.140	0.198	0.191	0.254	0.54	
Dimensions	Unit	Height	mm	300				470		
		Width	mm	1,000			1,400		1,490	
		Depth	mm	700				1,100		
	Packed unit	Height	mm	355				1,319		
		Width	mm	1,220			1,620		1,724	
		Depth	mm	900				511		
Weight	Unit	kg	35				46		105	
	Packed unit	kg	39				49		124	
Casing	Colour	Unpainted								
	Material	Galvanised steel plate								
Required ceiling void >			mm	350					-	
Heat exchanger	Inside length		mm	740				1,140		1,260
	Outside length		mm	-						1,260
	Rows	Quantity		3					2	
	Fin pitch		mm	1.75						1.4
	Passes	Quantity		7				11		16
	Face area		m²	0.249				0.383		0.85
Heat exchanger	Stages	Quantity	16					32		
	Empty tubeplate hole	Quantity	0							
	Tube type			ø7 Hi-XD					ø7 Hi-XU	
	Fin	Type		MLH7 Fin (Hydrophilia)					Raise Lance	
	Fan	Type		Sirocco fan						
		Quantity			2			3		2
Air flow rate	Cooling - 50Hz	At high fan speed	m³/min	18.0	19.5	25.0	32.0	36.0	62	
		At medium fan speed	m³/min	16.5	17.5	22.5	27.0	30.0	48	
		At low fan speed	m³/min	15.0	16.0	20.0	23.0	26.0	41	
		Heating	At high fan speed	m³/min	18.0	19.5	25.0	32.0	36.0	62
			At medium fan speed	m³/min	16.5	17.5	22.5	27.0	30.0	48
			At low fan speed	m³/min	15.0	16.0	20.0	23.0	26.0	41
	Cooling - 60Hz	At high fan speed	cfm	636	689	883	1,130	1,271	2,190	
		At medium fan speed	cfm	583	618	795	953	1,059	1,695	
		At low fan speed	cfm	530	565	706	812	918	1,448	
		Heating	At high fan speed	cfm	636	689	883	1,130	1,271	2,190
			At medium fan speed	cfm	583	618	795	953	1,059	1,695
			At low fan speed	cfm	530	565	706	812	918	1,448
	External static pres-sure - 50Hz	Factory set	Pa	100					150	
		High	Pa	200					250	
	External static pres-sure - 60Hz	Low	Pa	-					50	
		Factory set	Pa	100					150	
		High	Pa	200					250	
		Low	Pa	-					50	
Fan motor	Drive		Direct drive							
Sound power level	Cooling	At high fan speed	dBA	61.0	64.0	67.0	65.0	70.0	75.0	
		At medium fan speed	dBA	60.0	61.0	64.0	61.0	66.0	74.0	
		At low fan speed	dBA	58.0	59.0	62.0	56.0	62.0	72.0	
	Heating	At high fan speed	dBA	62.0	65.0	68.0	66.0	71.0	75.0	
		At medium fan speed	dBA	61.0	62.0	65.0	62.0	67.0	74.0	
		At low fan speed	dBA	59.0	60.0	63.0	57.0	63.0	72.0	

2 Specifications

2 - 1 Specifications

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Technical specifications				FXMA50A	FXMA63A	FXMA80A	FXMA100A	FXMA125A	FXMA200A	
Sound pressure level	Cooling	At high fan speed	dBA	41.0	42.0	43.0		44.0	48.0	
		At medium fan speed	dBA	39.0	40.0	41.0		42.0	46.5	
		At low fan speed	dBA	37.0	38.0	39.0		40.0	45.0	
	Heating	At high fan speed	dBA	41.0	42.0	43.0		44.0	48.0	
		At medium fan speed	dBA	39.0	40.0	41.0		42.0	46.5	
Sound pressure level	Heating	At low fan speed	dBA	37.0	38.0	39.0		40.0	45.0	
Fan motor	Quantity			1						
	Speed	Steps		3						
	Output	Max	W	350					648	
Refrigerant	Type			R-32						
	GWP			675						
	Control			Electronic expansion valve						
Piping connections	Liquid	Type	Flare connection							
		OD	mm	6.35			9.52		9.5	
	Gas	Type	Flare connection							Flange
		OD	mm	12.7			15.9		19.1	
	Drain	VP25 (I.D. 25/O.D. 32)							BSP1	
Heat insulation			Foamed polystyrene / polyethylene							Foamed Polyethylene
Air filter	Type			Resin net						
Safety devices	Item	01	PC board fuse							
		02	Fan motor overcurrent protector							
Control systems	Infrared remote control			BRC4C65 / BRC4C66					BRC4C65	
	Wired remote control			BRC1H52W/S/K						

Technical specifications				FXMA250A	
Cooling capacity	Sensible capacity	At high fan speed	kW	20.4	
		At medium fan speed	kW	17.5	
		At low fan speed	kW	15.3	
	Latent capacity	At high fan speed	kW	7.6	
		At medium fan speed	kW	6.5	
		At low fan speed	kW	5.7	
Total capacity	At high fan speed	kW	28.0		
		At medium fan speed	kW	24	
		At low fan speed	kW	21	
	Total capacity	At high fan speed	kW	31.5	
Heating capacity	Total capacity	At medium fan speed	kW	27.0	
		At low fan speed	kW	22	
		At high fan speed	kW		
Power input - 50Hz	Cooling	At high fan speed	kW	0.65	
		At medium fan speed	kW	0.430	
		At low fan speed	kW	0.246	
	Heating	At high fan speed	kW	0.65	
		At medium fan speed	kW	0.430	
		At low fan speed	kW	0.246	
Power input - 60Hz	Cooling	At high fan speed	kW	0.65	
	Heating	At high fan speed	kW	0.65	
Dimensions	Unit	Height	mm	470	
		Width	mm	1,490	
		Depth	mm	1,100	
	Packed unit	Height	mm	1,319	
		Width	mm	1,724	
		Depth	mm	511	
Weight	Unit		kg	115	
	Packed unit		kg	135	
Casing	Colour			Unpainted	
	Material			Galvanised steel plate	
Heat exchanger	Inside length			1,260	
	Outside length			1,260	
	Rows	Quantity		3	
	Fin pitch		mm	1.4	
	Passes	Quantity		16	
	Face area		m ²	0.85	
Heat exchanger	Stages	Quantity		32	
	Empty tubeplate hole	Quantity		0	
	Tube type			ø7 Hi-XU	
	Fin	Type		Raise Lance	

2 Specifications

2 - 1 Specifications

Technical specifications					FXMA250A
Fan	Type				Sirocco fan
	Quantity				2
	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	74
			At medium fan speed	m³/min	64
			At low fan speed	m³/min	52
		Heating	At high fan speed	m³/min	74
			At medium fan speed	m³/min	64
			At low fan speed	m³/min	52
	Air flow rate - 60Hz	Cooling	At high fan speed	cfm	2,613
			At medium fan speed	cfm	2,260
			At low fan speed	cfm	1,836
		Heating	At high fan speed	cfm	2,613
			At medium fan speed	cfm	2,260
			At low fan speed	cfm	1,836
	External static pres- sure - 50Hz	Factory set		Pa	150
		High		Pa	250
		Low		Pa	50
	External static pres- sure - 60Hz	Factory set		Pa	150
		High		Pa	250
		Low		Pa	50
Fan motor	Drive				Direct drive
Sound power level	Cooling	At high fan speed		dBA	76.0
		At medium fan speed		dBA	75.0
		At low fan speed		dBA	73.0
	Heating	At high fan speed		dBA	76.0
		At medium fan speed		dBA	75.0
		At low fan speed		dBA	73.0
Sound pressure level	Cooling	At high fan speed		dBA	48.0
		At medium fan speed		dBA	46.5
		At low fan speed		dBA	45.0
	Heating	At high fan speed		dBA	48.0
		At medium fan speed		dBA	46.5
		At low fan speed		dBA	45.0
Fan motor	Quantity				1
	Speed	Steps			3
	Output	Max		W	750
Refrigerant	Type				R-32
	GWP				675
	Control				Electronic expansion valve
Piping connections	Liquid	Type	Flare connection		
		OD	mm	9.5	
	Gas	Type	Flange		
		OD	mm	19.1	
	Drain	BSP1			
Safety devices	Heat insulation				Foamed Polyethylene
	Item	01		PC board fuse	
		02		Fan motor overcurrent protector	
Control systems	Infrared remote control				BRC4C65
	Wired remote control				BRC1H52W/S/K

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

Standard accessories: Drain hose;Quantity: 1;

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

Standard accessories: Insulation for fitting;Quantity: 2;

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

Standard accessories: Screws;Quantity: 16;

Standard accessories: Sealing pad;Quantity: 3;

Standard accessories: General safety precautions;Quantity: 1;

Standard accessories: Wire clamp material;Quantity: 1;

Standard accessories: Spring washer;Quantity: 2;

Standard accessories: Hexagon head screw;Quantity: 2;

Standard accessories: Plain washer;Quantity: 8;

Standard accessories: Hexagon head screw with washer;Quantity: 49;

Standard accessories: Gas connection pipe;Quantity: 1;

Electrical specifications		FXMA50A	FXMA63A	FXMA80A	FXMA100A	FXMA125A	FXMA200A
Power supply	Name	VE					VM
	Phase	1~					
	Frequency	50/60					
	Voltage	220-240/220					220-240/220-230

2 Specifications

2 - 1 Specifications

2

Electrical specifications			FXMA50A	FXMA63A	FXMA80A	FXMA100A	FXMA125A	FXMA200A
Current - 50Hz	Minimum circuit amps (MCA)	A	1.8	2.0	2.4	3.0	3.2	4.3
	Maximum fuse amps (MFA)	A	6					
	Full load amps (FLA) Total	A	1.6	1.8	2.2	2.7	2.9	3.9
Current - 60Hz	Minimum circuit amps (MCA)	A	1.8	2.0	2.4	3.0	3.2	4.3
	Maximum fuse amps (MFA)	A	6					
	Full load amps (FLA) Total	A	1.6	1.8	2.2	2.7	2.9	3.9

Electrical specifications			FXMA250A					
Power supply	Name		VM					
	Phase		1~					
	Frequency	Hz	50/60					
	Voltage	V	220-240/220-230					
Current - 50Hz	Minimum circuit amps (MCA)	A	5.2					
	Maximum fuse amps (MFA)	A	6					
	Full load amps (FLA) Total	A	4.7					
Current - 60Hz	Minimum circuit amps (MCA)	A	5.2					
	Maximum fuse amps (MFA)	A	6					
	Full load amps (FLA) Total	A	4.7					

(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 Safety device settings

3 - 1 Safety Device Settings

FXMA50-125A

Safety devices	FXMA50	FXMA63	FXMA80	FXMA100	FXMA125
Printed circuit board (main)	250V, 3.15A				
Printed circuit board (fan)	250V, 6.3A				

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FXMA200-250A

Safety devices	FXMA200AXVMB	FXMA250AXVMB
PCB fuse	250V, 3.15A	250V, 3.15A
PCB fuse (fan driver)	250V, 20A	250V, 20A

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Options

Options

FXMA50-125A

Option kit	Product name	Availability	
		FXMA50ASVEB FXMA63ASVEB FXMA80ASVEB	FXMA100ASVEB FXMA125ASVEB
Wireless remote control	BRC4C65 ②	✓	✓
WLAN adaptor for smartphones	BRP069C51 ②	✓	✓
Wired remote control	BRC1H52/82W7/S7/K7 ①	✓	✓
Intelligent Tablet Controller	DCC601A51 ②	✓	✓
Intelligent touch controller	DCS601CS1 ②⑧	✓	✓
Central remote control	DCS302CA51 ②⑦⑩	✓	✓
	DCS302CA61 ②⑦⑨	✓	✓
Unified ON/OFF controller	DCS301BA51 ②⑥⑩	✓	✓
	DCS301BA61 ②⑥⑨	✓	✓
Modbus interface for monitoring and control	EKMBPP1A	✓	✓
Modbus interface for infrastructure cooling	RTD-10	✓	✓
Modbus interface for retail	RTD-20	✓	✓
Modbus interface for hotel	RTD-HO	✓	✓
KNX interface	KLIC-DI	✓	✓
Intelligent Touch Manager	DCM601B51 ②	✓	✓
Daikin PMS interface	DCM010A51	✓	✓
BACnet interface	DMS502A51	✓	✓
LonWorks interface	DMS504B51	✓	✓
External wired temperature sensor	KRC501-6B	✓	✓
External wireless temperature sensor	EKEWTSC-1 ④	✓	✓
Adapter with -2- output signals	ERP02A50 ③	✓	✓
Adapter with -4- output signals	EKR1C14 ③	✓	✓
Adapter for centralised external monitoring/ control via dry contacts and setpoint control via 0--140-Ω (for dedicated indoors)	KRP4A52 ③	✓	✓
Adapter for external central monitoring/control (controls 1 entire system)	KRP2A516 ③	✓	✓
Adapter for keycard and/or window contact connection	BRP7A51 ②③	✓	✓
Adaptor for multi-tenant applications	DTA114A61-9 ③⑤	✓	✓
	DTA104A52 ③⑩	✓	✓
External control adaptor for outdoor unit	DTA104A62 ③⑨	✓	✓
	KRP18C101	✓	✓
Electrical box with earth terminal (-2- blocks)	KJB212AA	✓	✓
Electrical box with earth terminal (-3- blocks)	KJB311AA	✓	✓
Electrical box with earth terminal (-4- blocks)	KJB411A	✓	✓
Optional output PCB	ERP01A50 ③	✓	✓
	KDAJ25K71	✓	X
Air discharge adaptor for round ducts	KDAJ25K140	X	✓

Notes

- ① Mandatory option
- ② Only possible in combination with remote control -BRC1H52/82-.
- ③ Requires installation box for adaptor PCB -KRP18C101-.
- ④ -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.
- ⑤ This option cannot be combined with -RXYSA4/5/6A7V1B- or -RXYSA4/5/6A7Y1B-.
- ⑥ Requires installation box -KJB212AA-.
- ⑦ Requires installation box -KJB311AA-.
- ⑧ Requires installation box -KJB411A-.
- ⑨ Language pack -English-
- ⑩ Language pack -English, German, French, Dutch, Spanish, Italian, Greek, Portuguese-

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FXMA200-250A

Option kit	Product name	Availability	
		FXMA200AXVMB FXMA250AXVMB	
Wireless remote control	BRC4C65 ②	✓	
WLAN adaptor for smartphones	BRP069C51 ②	✓	
Wired remote control	BRC1H52/82W7/S7/K7 ①	✓	
Intelligent Tablet Controller	DCC601A51 ②	✓	
Intelligent touch controller	DCS601CS1 ②⑧	✓	
Central remote control	DCS302CA51 ②⑦⑩	✓	
	DCS302CA61 ②⑦⑨	✓	
Unified ON/OFF controller	DCS301BA51 ②⑥⑩	✓	
	DCS301BA61 ②⑥⑨	✓	
Intelligent Touch Manager	DCM601B51 ②	✓	
High-efficiency filter -65-%	BAFM503A250 ④	✓	
High-efficiency filter -90-%	BAFH504A250 ④	✓	
Pre-filter	BAFL501A250	✓	
Long-life replacement filter	BAFL502A250 ④	✓	
Filter chamber	BDD500B250	✓	
External wired temperature sensor	KRC501-6B	✓	
Wire harness for external wireless temperature sensor	EKEWTSC-1 ③	✓	
Adapter with -2- output signals	ERP02A50	✓	
Adapter with -4- output signals	EKR1C14	✓	
Adapter with -4- output signals	KRP1C65	✓	
Adapter for centralised external monitoring/ control via dry contacts and setpoint control via 0--140-Ω (for dedicated indoors)	KRP4AA51	✓	
Adapter for external central monitoring/control (controls 1 entire system)	KRP2A516	✓	
Adapter for keycard and/or window contact connection	BRP7A51 ②	✓	
Adaptor for multi-tenant applications	DTA114A61-9 ⑤	✓	
	DTA104A51 ⑩	✓	
External adaptor for outdoor unit (installation on indoor unit)	DTA104A61 ⑨	✓	
	KJB212AA	✓	
Electrical box with earth terminal (-2- blocks)	KJB311AA	✓	
Electrical box with earth terminal (-3- blocks)	KJB411A	✓	
Optional output PCB	ERP01A50	✓	
Drain pump kit	BDU510B250VM	✓	

Notes

- ① Mandatory option
- ② Only possible in combination with remote control -BRC1H52/82-.
- 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 This option needs to be ordered together with -BDD500B250-.
- ⑤ This option cannot be combined with -RXYSA4/5/6A7V1B- or -RXYSA4/5/6A7Y1B-.
- ⑥ Requires installation box -KJB212AA-.
- ⑦ Requires installation box -KJB311AA-.
- ⑧ Requires installation box -KJB411A-.
- ⑨ Language pack -English-
- ⑩ Language pack -English, German, French, Dutch, Spanish, Italian, Greek, Portuguese-

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5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

FXMA50-125A

Cooling

		Indoor air temperature														Notes 1) TC: Total capacity [kW] SHC: Sensible heat capacity [kW] H: High M: Medium L: Low 2) Outdoor temperature -35°C DB
Unit size	Fan speed	14,0 [°C WB]		16,0 [°C WB]		18,0 [°C WB]		19,0 [°C WB]		20,0 [°C WB]		22,0 [°C WB]		24,0 [°C WB]		
		20,0 [°C DB]		23,0 [°C DB]		26,0 [°C DB]		27,0 [°C DB]		28,0 [°C DB]		30,0 [°C DB]		32,0 [°C DB]		
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
50	H	3,1	2,7	4,0	3,2	5,1	3,8	5,6	4,0	6,2	4,2	7,4	4,5	8,6	4,8	
	M	Correction factor -0.84 × H-														
	L	Correction factor -0.71 × H-														
63	H	3,9	3,4	5,1	4,1	6,4	4,9	7,1	5,1	7,8	5,3	9,3	5,7	10,9	6,1	
	M	Correction factor -0.82 × H-														
	L	Correction factor -0.66 × H-														
80	H	4,9	4,4	6,5	5,4	8,2	6,4	9,0	6,7	9,9	7,0	11,6	7,5	13,6	7,9	
	M	Correction factor -0.83 × H-														
	L	Correction factor -0.60 × H-														
100	H	6,1	5,3	8,1	6,5	10,1	7,7	11,2	8,1	12,3	8,4	14,7	9,1	17,2	9,6	
	M	Correction factor -0.78 × H-														
	L	Correction factor -0.52 × H-														
125	H	7,6	6,8	10,1	8,3	12,7	9,8	14,0	10,3	15,4	10,7	18,3	11,6	21,3	12,2	
	M	Correction factor -0.81 × H-														
	L	Correction factor -0.64 × H-														

Heating

Unit size	Fan speed	Indoor air temperature						Notes
		16,0 [°C DB]	18,0 [°C DB]	20,0 [°C DB]	21,0 [°C DB]	22,0 [°C DB]	24,0 [°C DB]	
50	H	7,4	6,8	6,3	6,0	5,8	5,2	1) TC: Total capacity [kW] H: High M: Medium L: Low 2) Outdoor temperature -7°C DB / -6°C WB
	M	Correction factor -0.81 × H-						
	L	Correction factor -0.65 × H-						
63	H	9,4	8,7	8,0	7,7	7,3	6,7	
	M	Correction factor -0.79 × H-						
	L	Correction factor -0.63 × H-						
80	H	11,7	10,8	10,0	9,6	9,2	8,3	
	M	Correction factor -0.83 × H-						
	L	Correction factor -0.59 × H-						
100	H	14,6	13,6	12,5	12,0	11,4	10,4	
	M	Correction factor -0.74 × H-						
	L	Correction factor -0.48 × H-						
125	H	18,4	17,2	16,0	15,4	14,8	13,6	
	M	Correction factor -0.80 × H-						
	L	Correction factor -0.61 × H-						

4D139666

FXMA200-250A

Cooling

		Indoor air temperature														Notes	
Unit size	Fan speed	14,0 [°C WB]		16,0 [°C WB]		18,0 [°C WB]		19,0 [°C WB]		20,0 [°C WB]		22,0 [°C WB]		24,0 [°C WB]			
		20,0 [°C DB]		23,0 [°C DB]		26,0 [°C DB]		27,0 [°C DB]		28,0 [°C DB]		30,0 [°C DB]		32,0 [°C DB]			
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC		
200	H	12,2	10,9	16,1	13,3	20,3	15,7	22,4	16,4	24,5	17,2	29,0	18,5	33,8	19,7	1) TC: Total capacity [kW] SHC: Sensible heat capacity [kW] H: High M: Medium L: Low	
	M	Correction factor -0.85 x H-															
	L	Correction factor -0.76 x H-															
250	H	15,9	13,9	20,7	16,8	25,6	19,6	28,0	20,4	30,6	21,2	36,0	22,5	41,7	23,6		2) Outdoor temperature -35°C DB
	M	Correction factor -0.86 x H-															
	L	Correction factor -0.75 x H-															

Heating

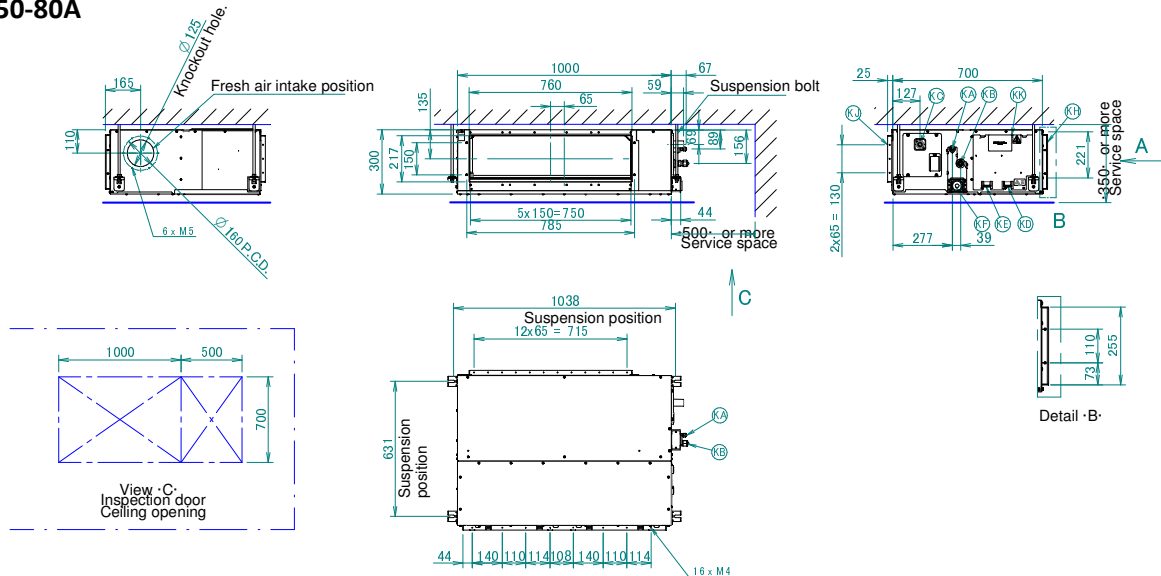
Heating		Indoor air temperature						Notes 1) TC: Total capacity [kW] H: High M: Medium L: Low 2) Outdoor temperature -7 °C DB / -6 °C WB
Unit size	Fan speed	16,0 [°C DB]	18,0 [°C DB]	20,0 [°C DB]	21,0 [°C DB]	22,0 [°C DB]	24,0 [°C DB]	
		TC	TC	TC	TC	TC	TC	
200	H	28,9	26,9	25,0	24,0	23,1	21,2	
	M	Correction factor -0.82 × H-						
	L	Correction factor -0.72 × H-						
250	H	36,4	33,9	31,5	30,3	29,1	26,7	
	M	Correction factor -0.86 × H-						
	L	Correction factor -0.70 × H-						

4D140674

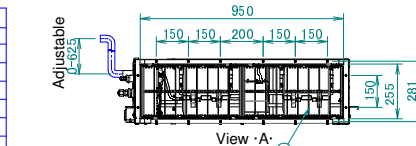
6 Dimensional drawings

6 - 1 Dimensional Drawings

FXMA50-80A



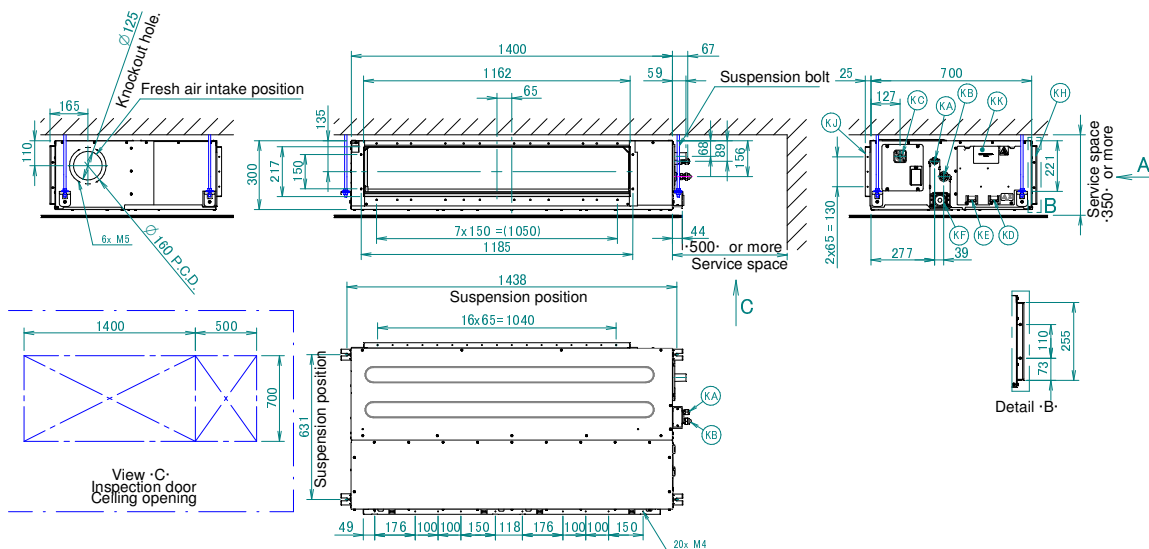
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35" flared connection
KB	Gas pipe connection port	Ø12.70" flared connection
KC	Drain pipe connection	VP25 (OD Ø32 ID Ø25)
KD	Wiring connection	
KE	Power supply connection	
KF	Drain outlet	VP25 (OD Ø32 ID Ø25)
KG	Air filter	
KH	Air suction side	
KJ	Air discharge side	
KK	Nameplate	



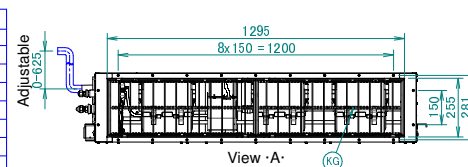
- Notes
1. When installing optional accessories, refer to their respective documentation.
 2. The ceiling depth varies according to the documentation of the specific system.
 3. In case of bottom suction, mount the chamber cover to the backside of the unit.
 4. For more information, refer to the installation manual.

3D139544

FXMA100-125A



Item	Name	Description
KA	Liquid pipe connection port	Ø9.52" flared connection
KB	Gas pipe connection port	Ø15.90" flared connection
KC	Drain pipe connection	VP25 (OD Ø32 ID Ø25)
KD	Wiring connection	
KE	Power supply connection	
KF	Drain outlet	VP25 (OD Ø32 ID Ø25)
KG	Air filter	
KH	Air suction side	
KJ	Air discharge side	
KK	Nameplate	

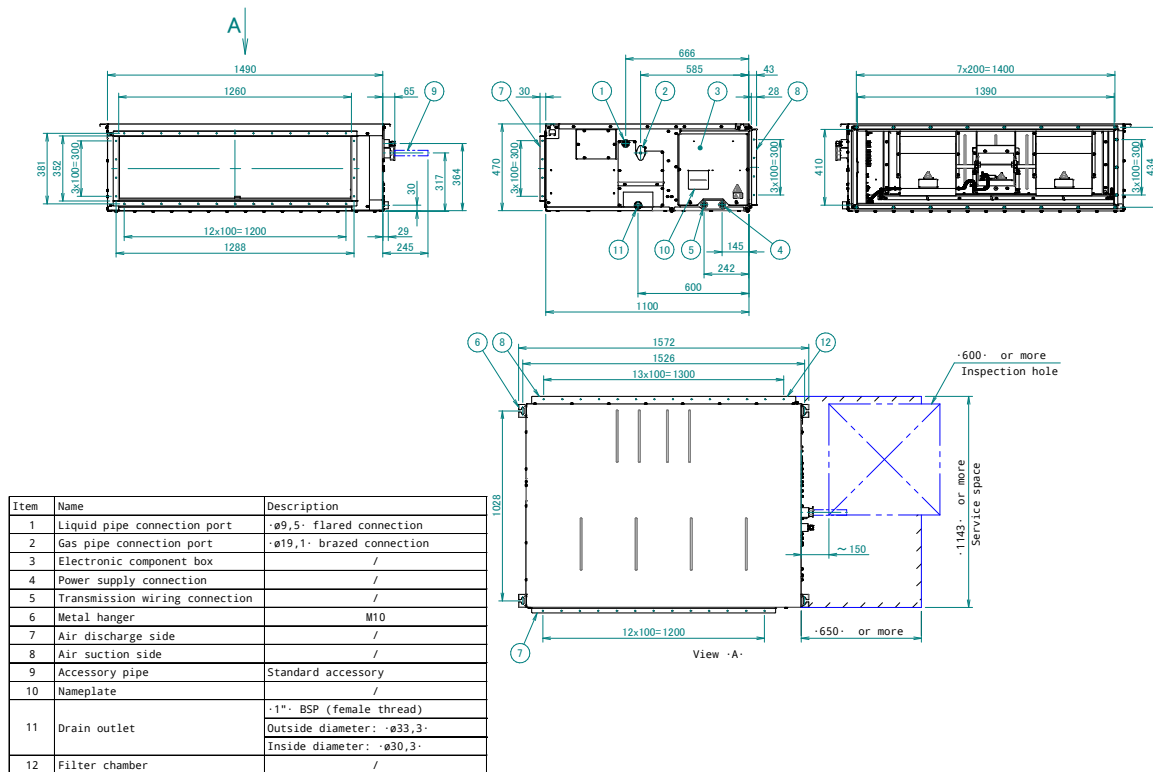


- Notes
1. When installing optional accessories, refer to their respective documentation.
 2. The ceiling depth varies according to the documentation of the specific system.
 3. In case of bottom suction, mount the chamber cover to the backside of the unit.
 4. For more information, refer to the installation manual.

3D139547

6 Dimensional drawings

6 - 1 Dimensional Drawings

FXMA200-250A

Notes

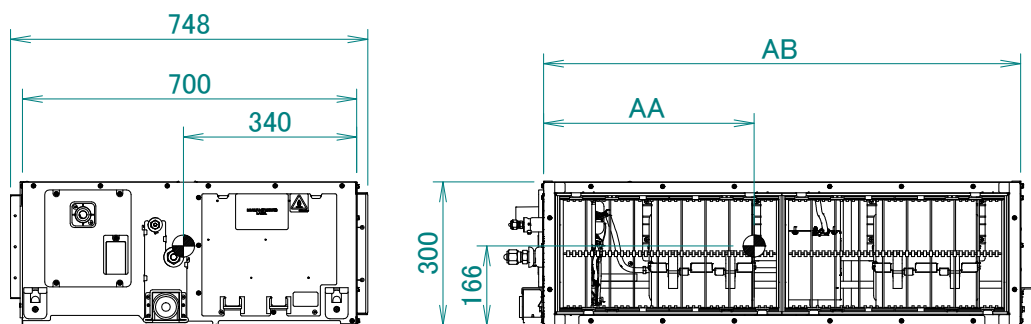
1. When installing optional accessories, refer to their respective documentation.
2. The unit nameplate is located on the control box cover.

3D140557

7 Centre of gravity

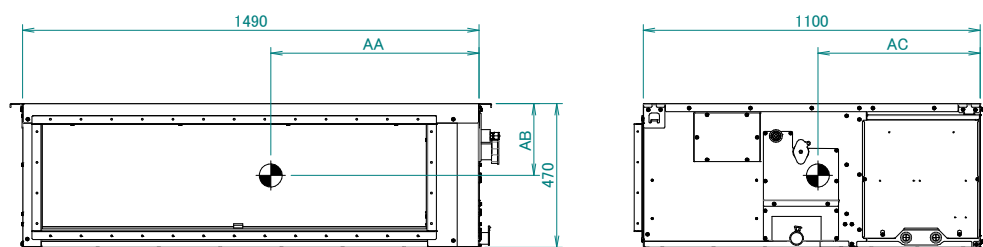
7 - 1 Centre of Gravity

FXMA50-125A



4D137920

FXMA200-250A



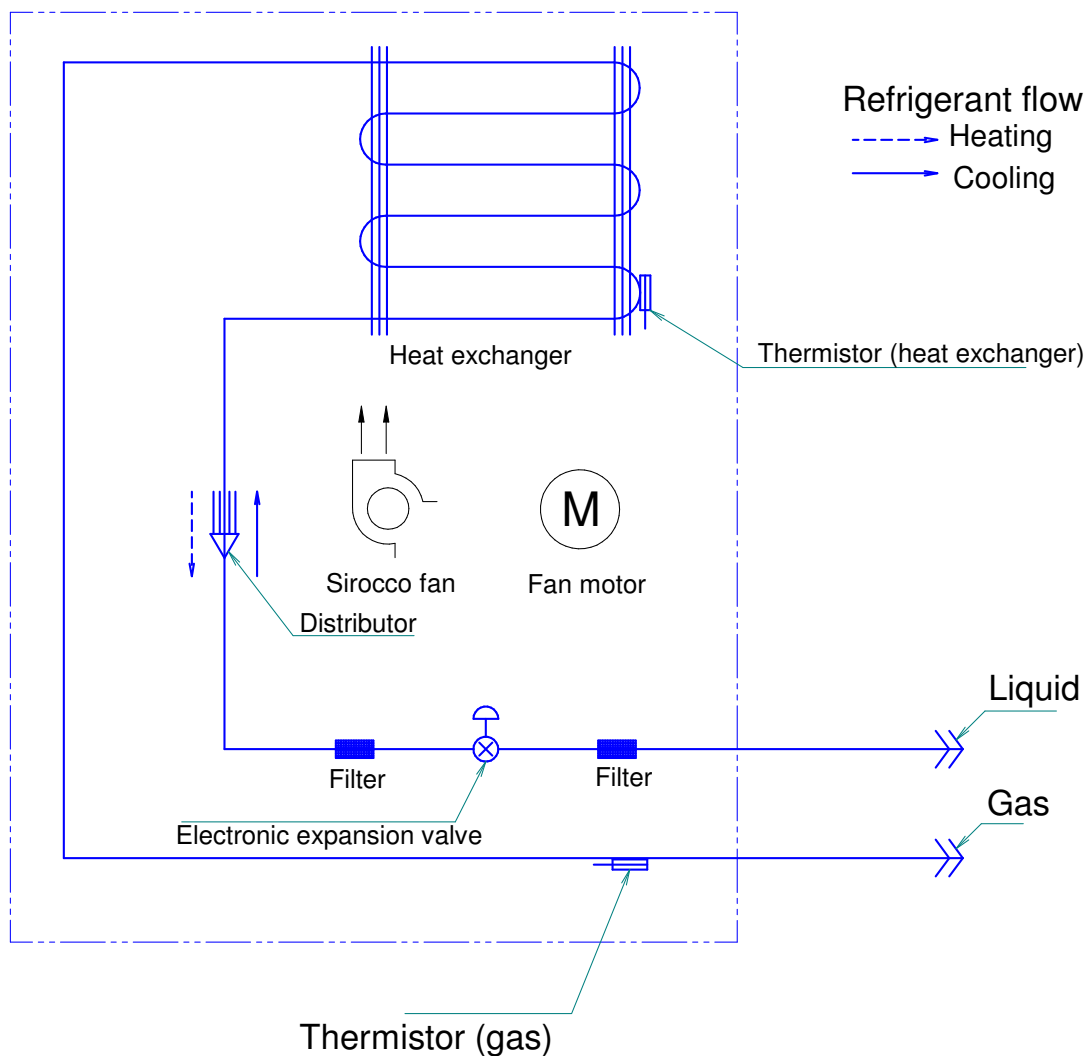
Model name	AA	AB	AC
FXMA200AXVMB	680	235	500
FXMA250AXVMB	700	255	510

3D140474

8 Piping diagrams

8 - 1 Piping Diagrams

FXMA50-125A



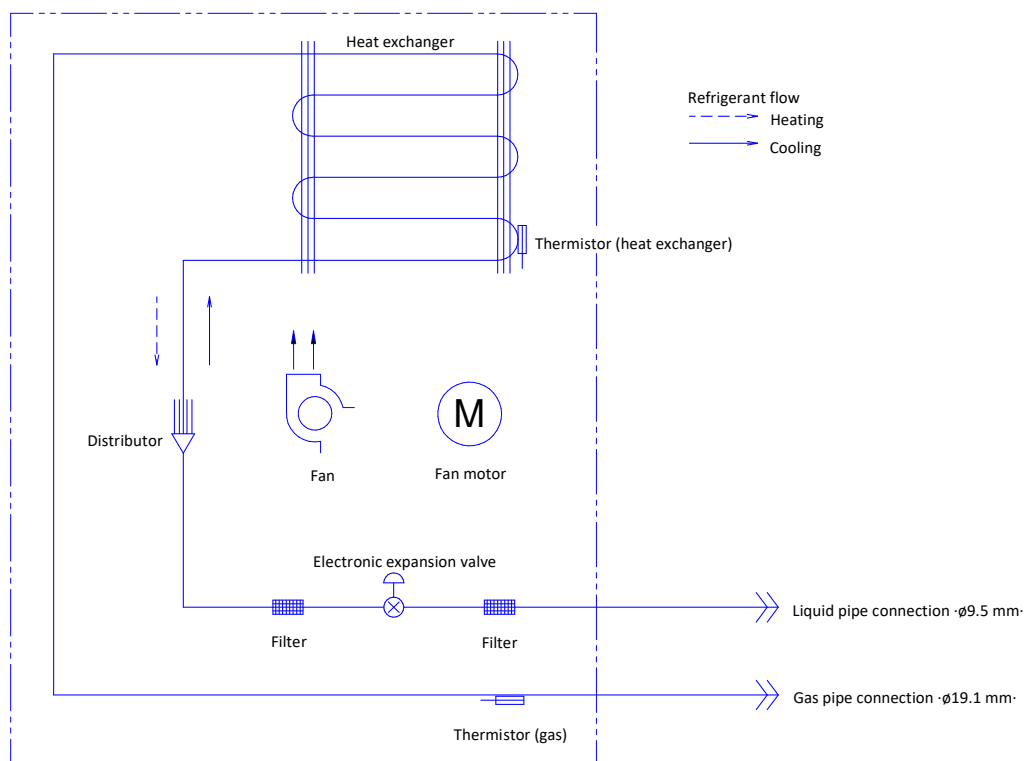
Model	Gas	Liquid
FXMA50/63/80A5VEB	Ø12.70	Ø6.35
FXMA100/125A5VEB	Ø15.90	Ø9.52

4D139220

8 Piping diagrams

8 - 1 Piping Diagrams

FXMA200-250A



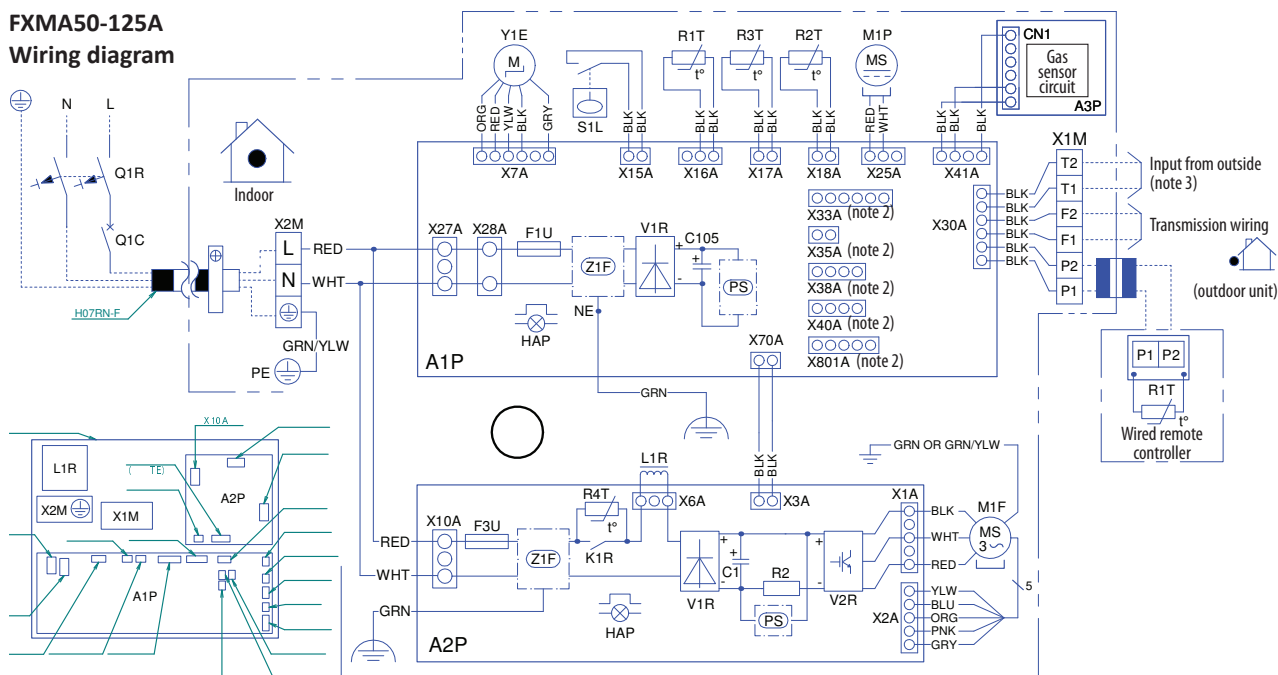
3D140531

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

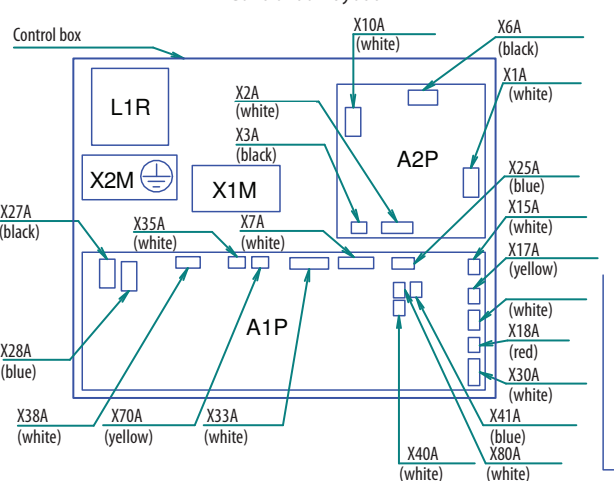
FXMA50-125A

Wiring diagram



Indoor unit	
A1P	Printed circuit board (main)
A2P	Printed circuit board (fan)
C1	Capacitor
C105	Capacitor
CN1	Gas sensor connector
A3P	Printed circuit board (gas sensor)
F1U	Fuse (T, 3.15A, 250V)
F3U	Fuse (T, 6.3A, 250V)
HAP	Indication lamp
K1R	Magnetic relay
L1R	Reactor
M1F	Motor (indoor fan)
M1P	Motor (drain pump)
NE	Noiseless earth
Q1R	Residual current device
Q1C	Circuit breaker
R2	Resistor (current sensor)
R1T	Thermistor (air)
R2T	Thermistor (liquid)
R3T	Thermistor (coil)
R4T	Thermistor ntc (current limiting)
S1L	Float switch
V1R	Diode bridge
V2R	Power module
PS	Switching power supply
X1M	Terminal strip (control)
X2M	Terminal strip (power supply)
X1A - X801A	Connector
Y1E	Electronic expansion valve
Z1F	Noise filter
Wired remote controller	
R1T	Thermistor (air)

Control box layout



NOTES

1. □□□ : terminal block, □□□ : connector, □□□□ : field wiring
2. X33A, X35A, X38A, X40A, X801A are connected when optional accessories are being used, see wiring diagram of this accessory.
3. Can be used for fire alarm input only.
See installation manual for more information.

WIRE COLORS

BLK : Black
BLU : Blue
YLW : Yellow
BRN : Brown
ORG : Orange
RED : Red
WHT : White
GRN : Green
PNK : Pink
GRY : Grey

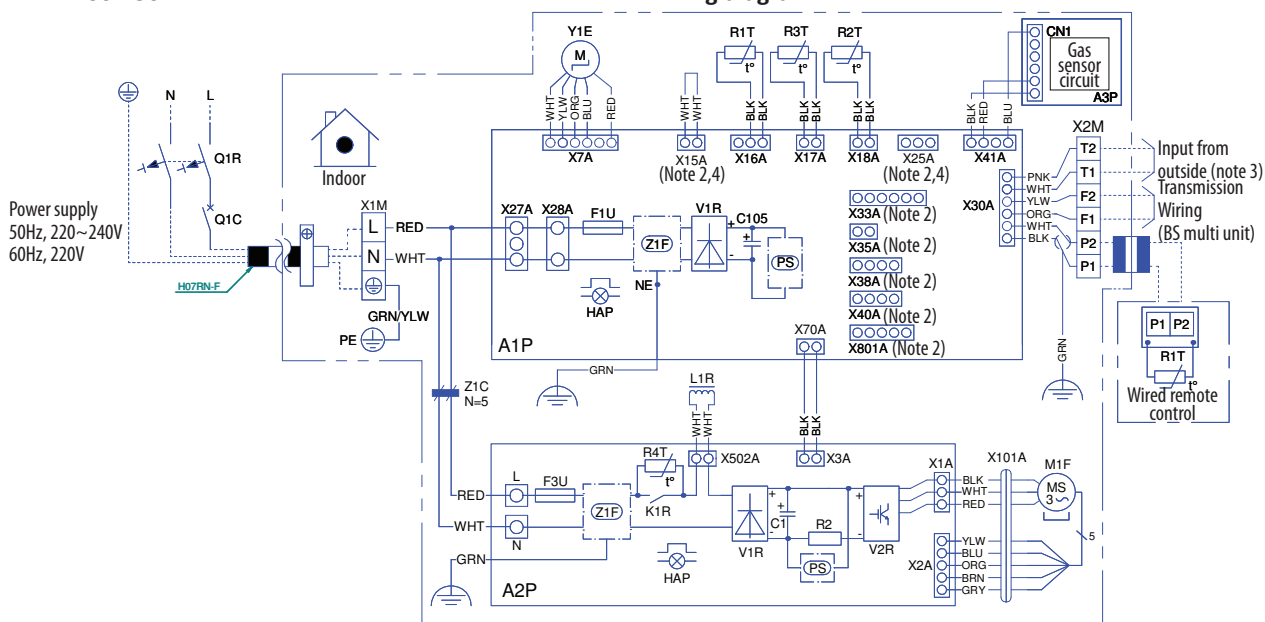
3D137857

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXMA200-250A

Wiring diagram



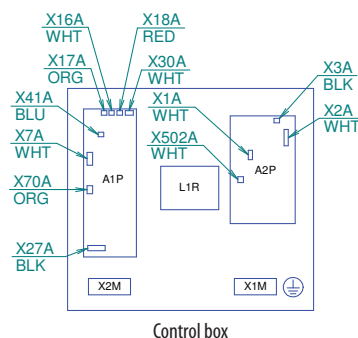
Indoor unit	
A1P	Printed circuit board (main)
A2P	Printed circuit board (fan)
C1	Capacitor
C105	Capacitor
CN1	Gas sensor connector
A3P	Printed circuit board (gas sensor)
F1U	Fuse (T, 3.15A, 250V)
F3U	Fuse (T, 6.3A, 250V)
HAP	Indication lamp
K1R	Magnetic relay
L1R	Reactor
M1F	Motor (indoor fan)
NE	Noiseless earth
Q1R	Residual current device
Q1C	Circuit breaker
R2	Resistor (current sensor)
R1T	Thermistor (air)
R2T	Thermistor (liquid)
R3T	Thermistor (coil)
R4T	Thermistor ntc (current limiting)
V1R	Diode bridge
V2R	Power module
PS	Switching power supply
X1M	Terminal strip (power supply)
X2M	Terminal strip (control)
X1A - X801A	Connector
Y1E	Electronic expansion valve
Z1F	Noise filter
Z1C	Noise filter (ferrite core)
Wired remote controller	
R1T	Thermistor (air)

NOTES

- □ □ : Terminal block
 ■ ■ ■ : Field wiring
 □ □ □ : Connector
 □ □ □ : Short circuit connector
- X33A, X35A, X38A, X40A, X801A, X15A, X25A are connected when optional accessories are being used, see wiring diagram of this accessory.
- Can be used for fire alarm input only.
 See installation manual for more information.
- X15A, X25A Are connected when the drain pump kit is being used. Before installing of drain pump kit remove short circuit connector connected to X15A.

WIRE COLORS

BLK : Black
 BLU : Blue
 YLW : Yellow
 BRN : Brown
 ORG : Orange
 RED : Red
 WHT : White
 GRN : Green
 PNK : Pink
 GRY : Grey



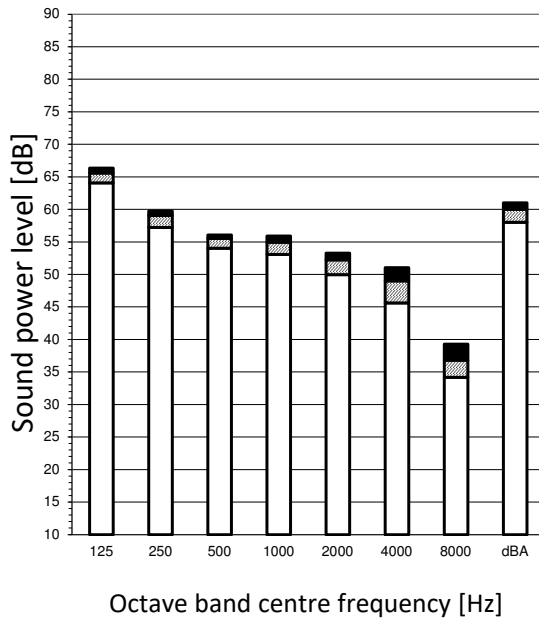
3D139909C

10 Sound data

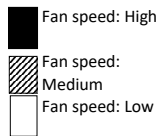
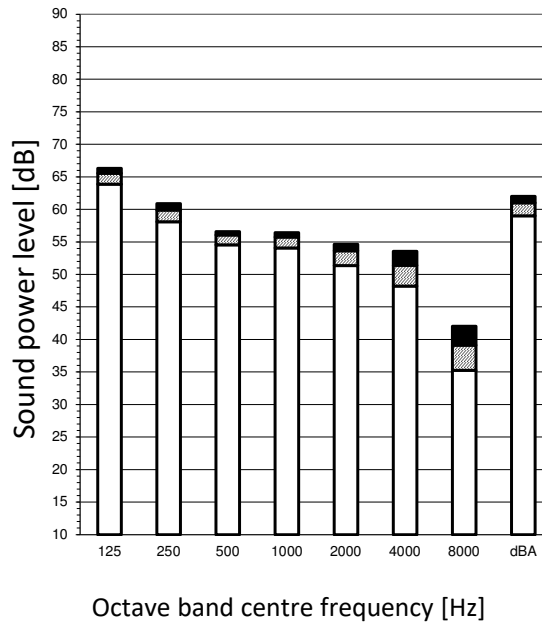
10 - 1 Sound Power Spectrum

FXMA50A

Cooling



Heating



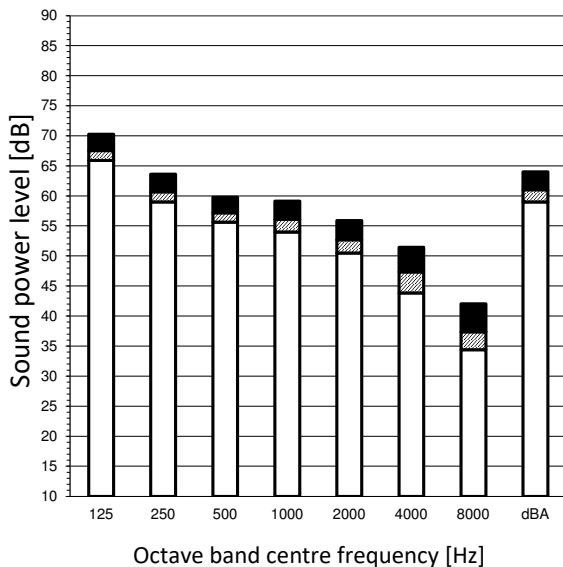
Notes

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

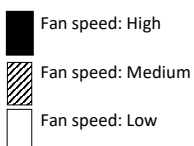
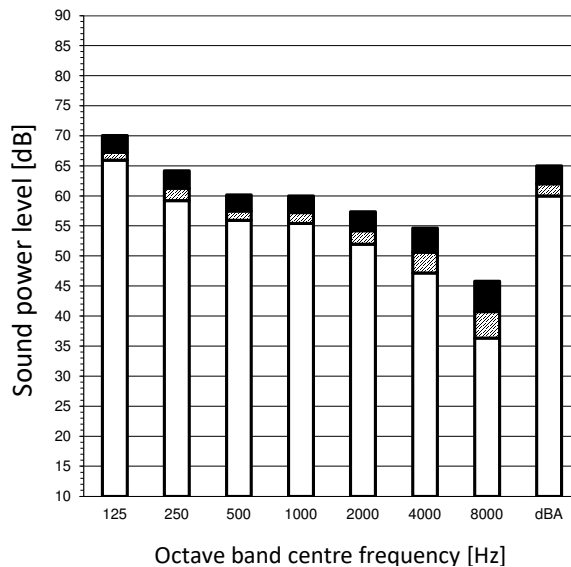
4D139780

FXMA63A

Cooling



Heating



Notes

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

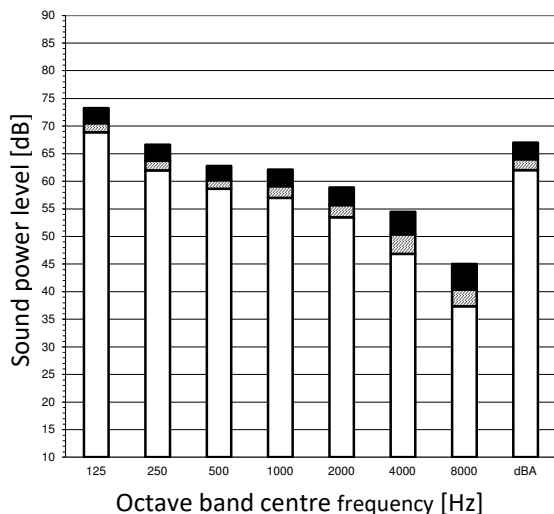
4D139782

10 Sound data

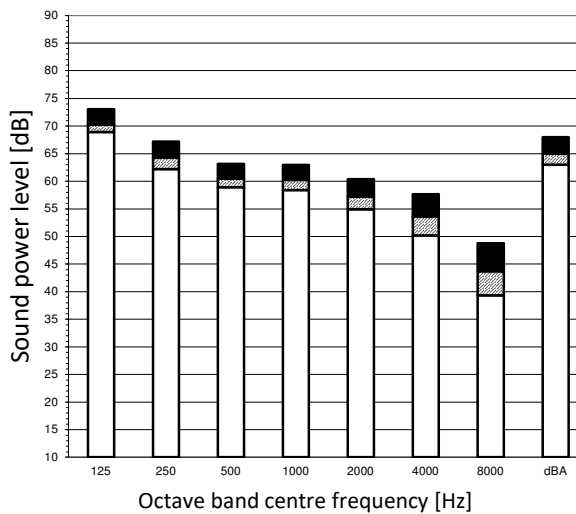
10 - 1 Sound Power Spectrum

FXMA80A

Cooling



Heating



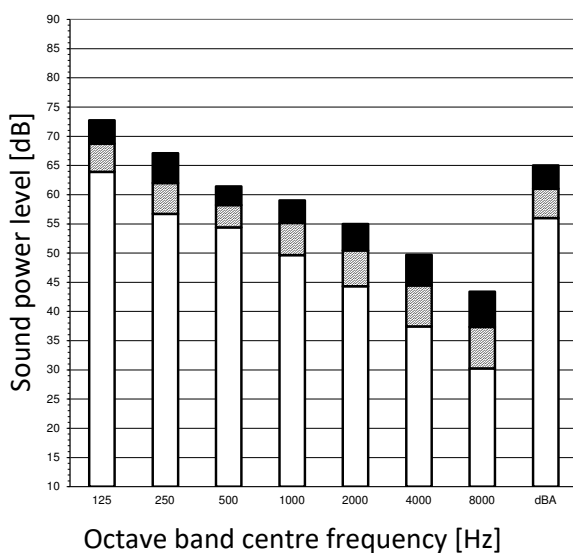
Fan speed: High
 Fan speed: Medium
 Fan speed: Low

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

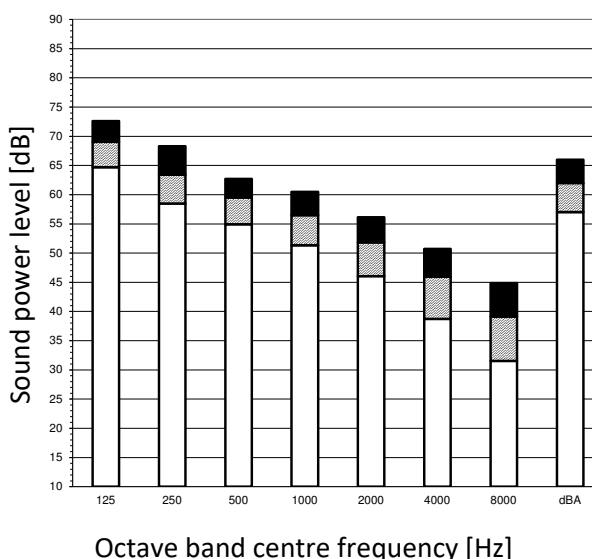
4D139783

FXMA100A

Cooling



Heating



Fan speed:
 High
 Fan speed:
 Medium
 Fan speed:
 Low

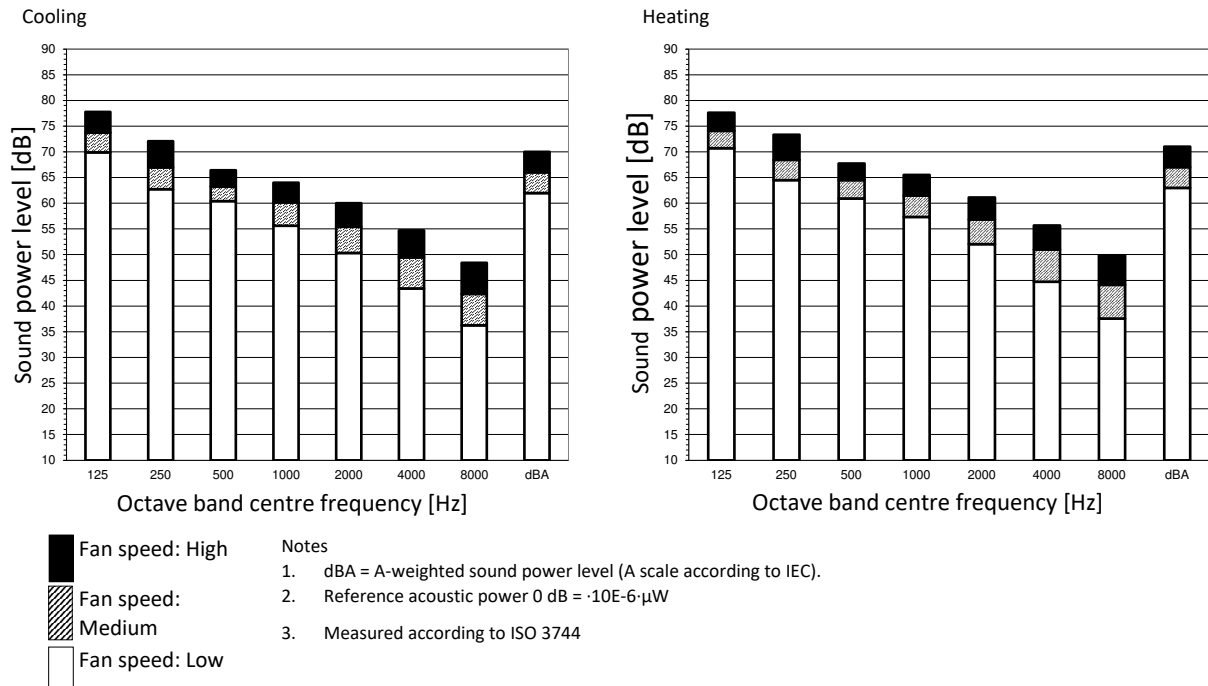
Notes
 1. dBA = A-weighted sound power level (A scale according to IEC).
 2. Reference acoustic power 0 dB = 10^{-6} W
 3. Measured according to ISO 3744

4D139779

10 Sound data

10 - 1 Sound Power Spectrum

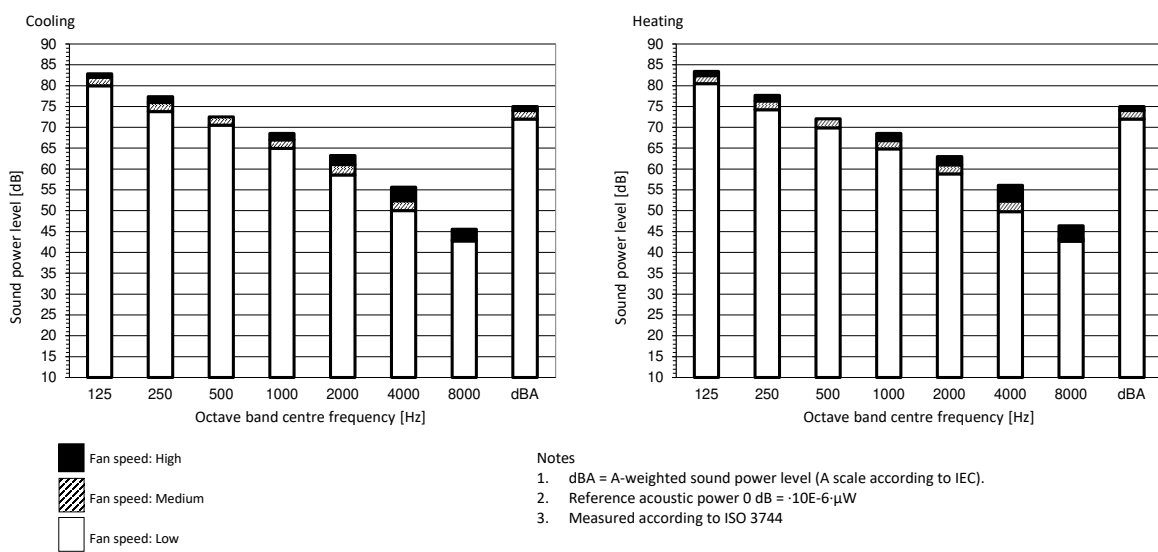
FXMA125A



4D139776

10

FXMA200A

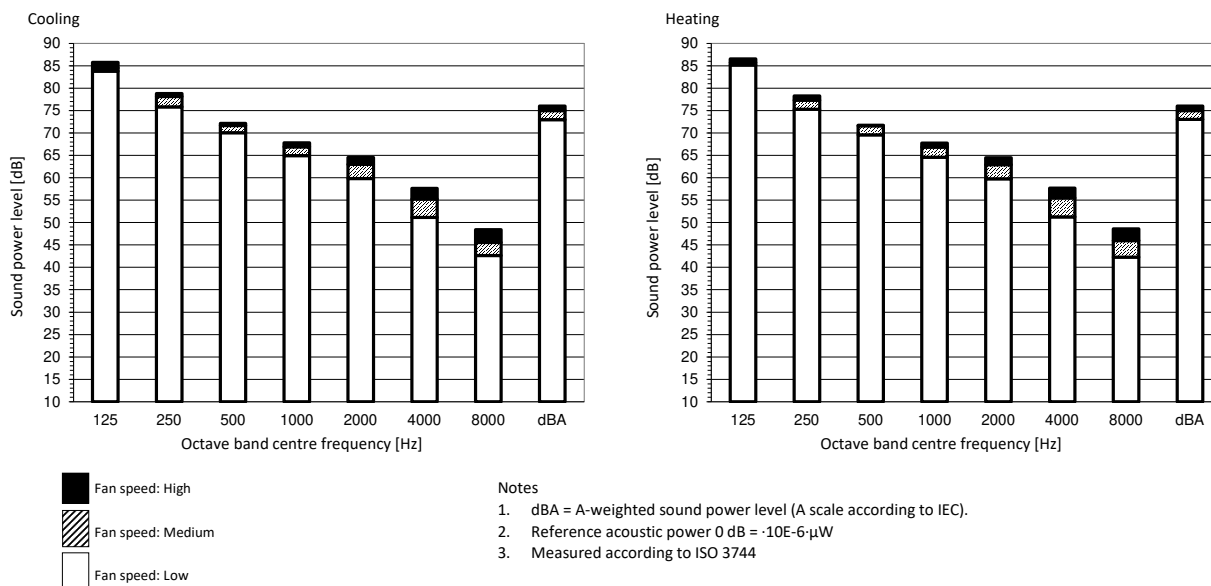


4D140664

10 Sound data

10 - 1 Sound Power Spectrum

FXMA250A

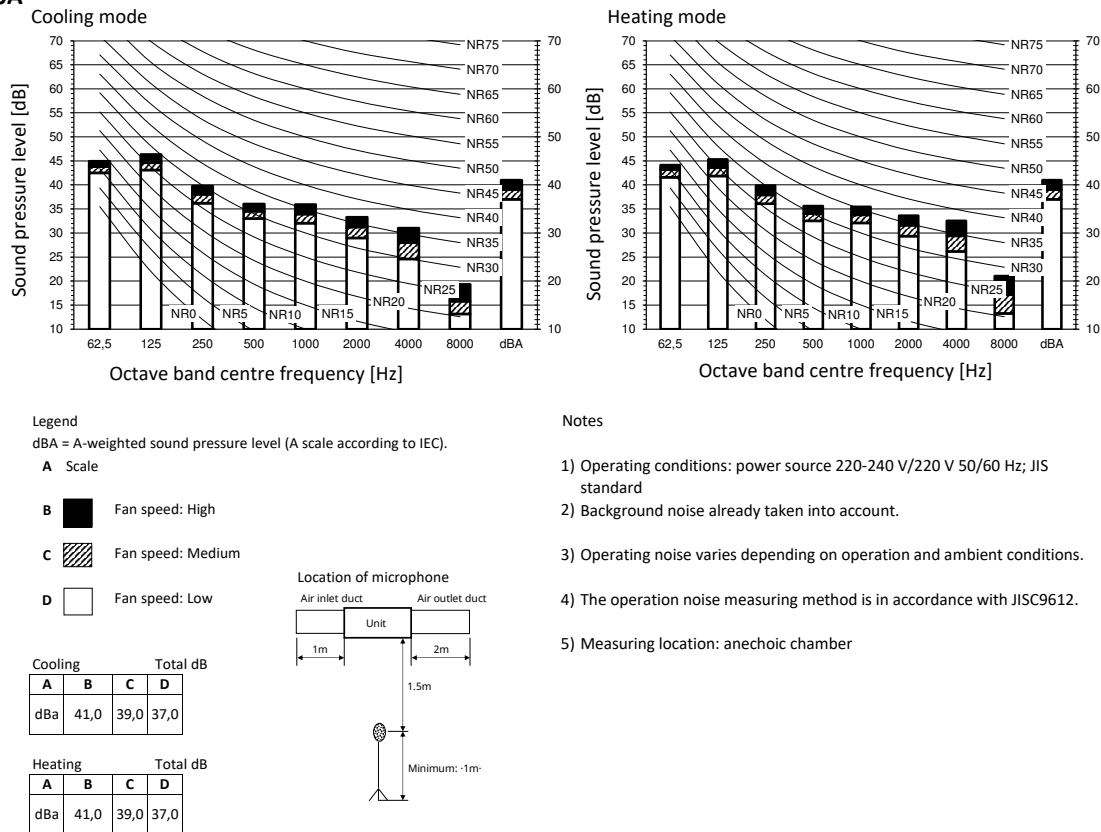


4D140666

10 Sound data

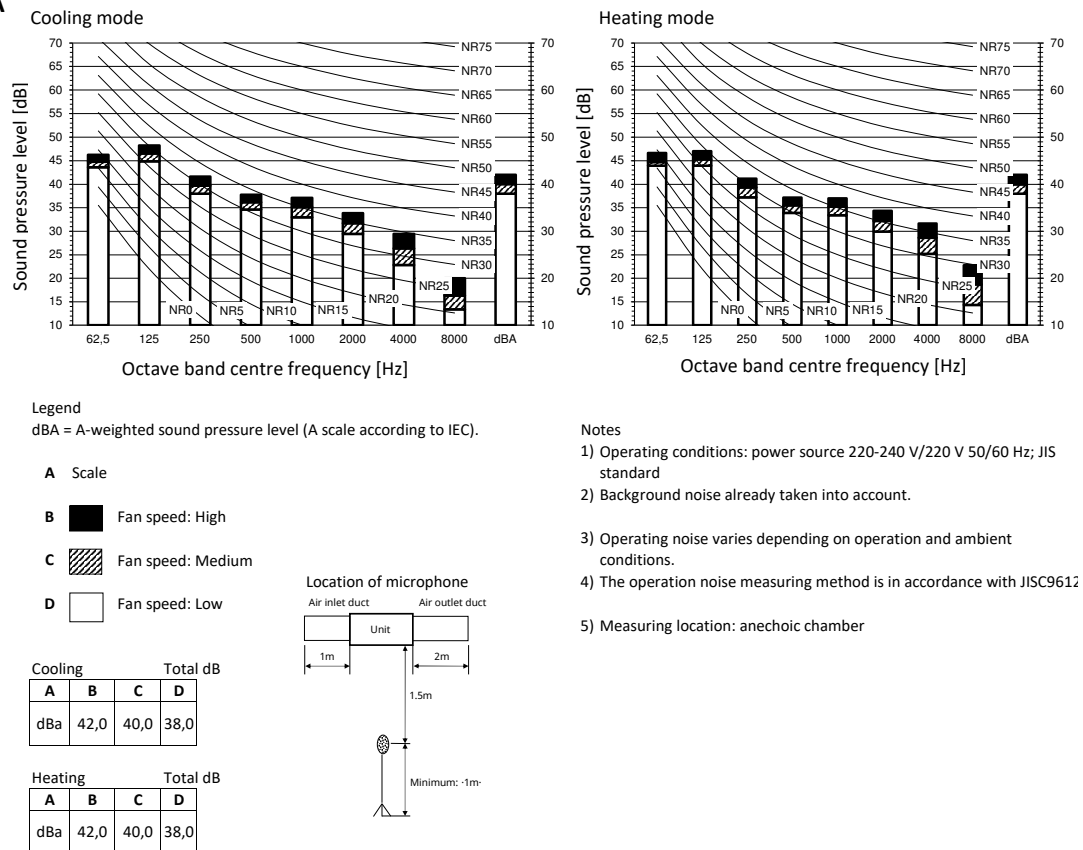
10 - 2 Sound Pressure Spectrum

FXMA50A



4D139733

FXMA63A

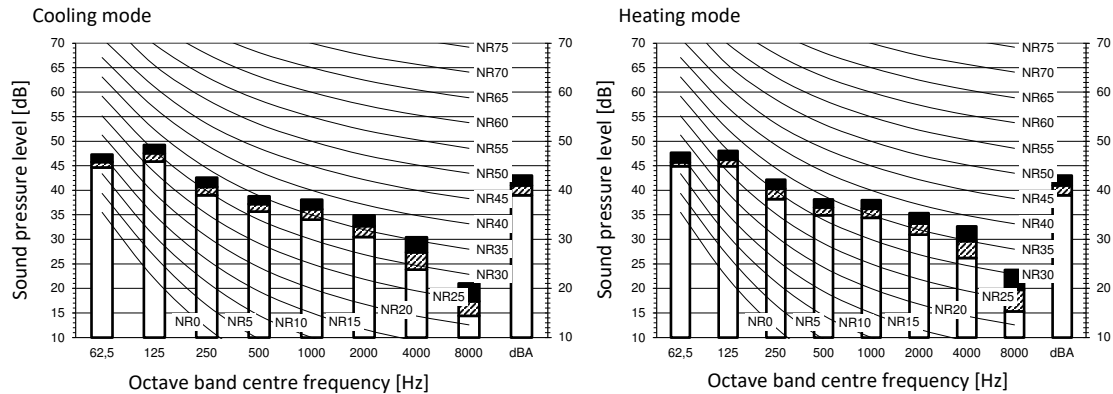


4D139734

10 Sound data

10 - 2 Sound Pressure Spectrum

FXMA80A

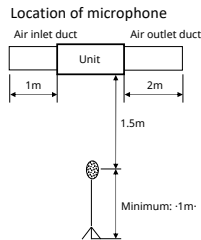


Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

- A** Scale
- B** Fan speed: High
- C** Fan speed: Medium
- D** Fan speed: Low

Cooling	Total dB			
A	B	C	D	
dBa	43,0	41,0	39,0	

Heating	Total dB			
A	B	C	D	
dBa	43,0	41,0	39,0	

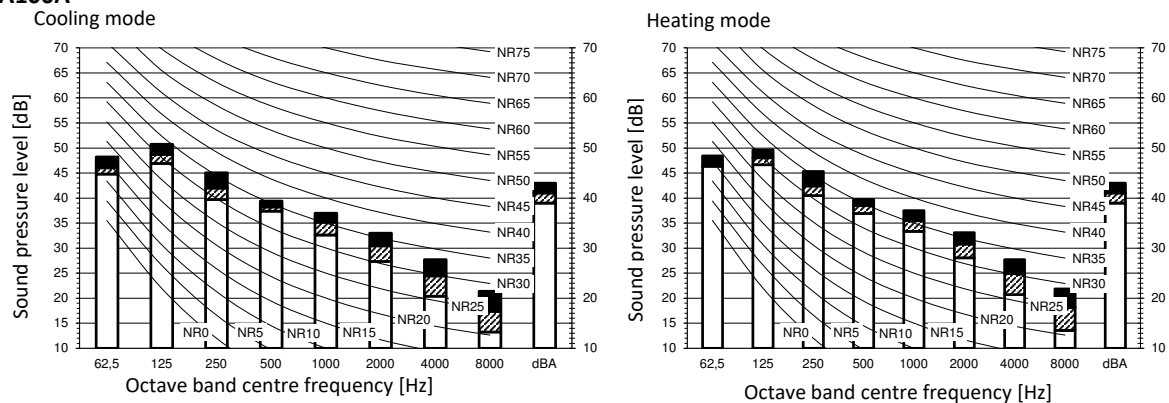


Notes

- 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

4D139737

FXMA100A

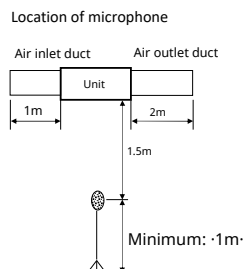


Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

- A** Scale
- B** Fan speed: High
- C** Fan speed: Medium
- D** Fan speed: Low

Cooling	Total dB			
A	B	C	D	
dBa	43,0	41,0	39,0	

Heating	Total dB			
A	B	C	D	
dBa	43,0	41,0	39,0	



Notes

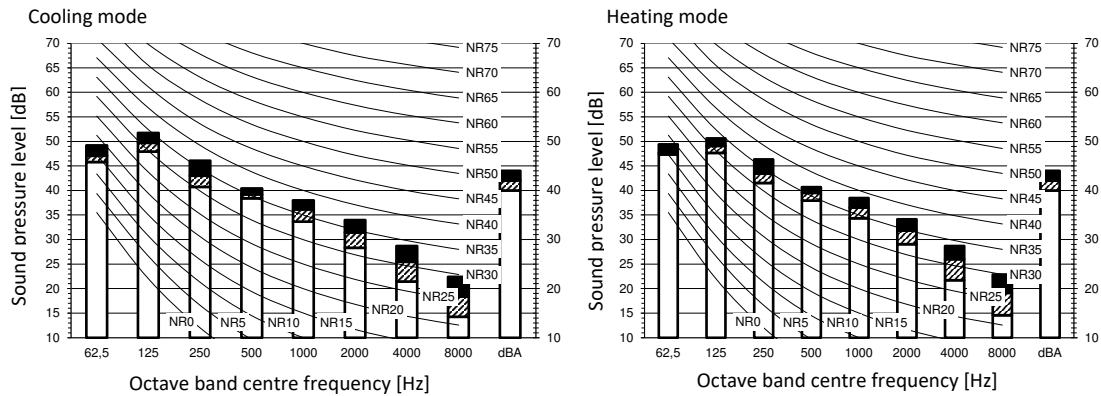
- 1) Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- 2) Background noise already taken into account.
- 3) Operating noise varies depending on operation and ambient conditions.
- 4) The operation noise measuring method is in accordance with JISC9612.
- 5) Measuring location: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

4D139738

10 Sound data

10 - 2 Sound Pressure Spectrum

FXMA125A

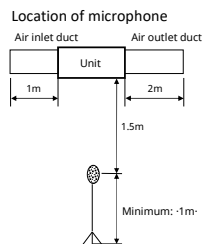


Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

- A Scale
- B Fan speed: High
- C Fan speed: Medium
- D Fan speed: Low

Cooling	Total dBA
A	44,0
B	42,0
C	40,0

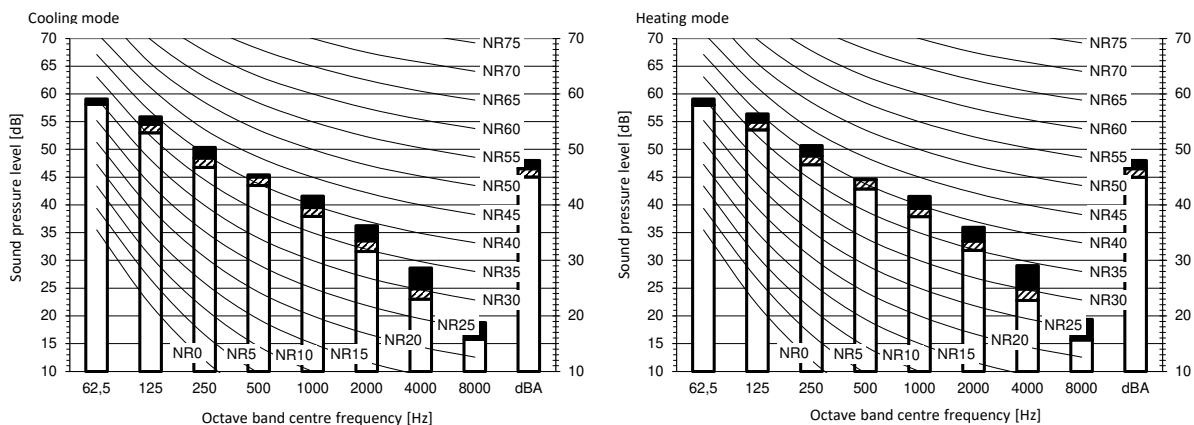
Heating	Total dBA
A	44,0
B	42,0
C	40,0



- 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

4D139739

FXMA200A

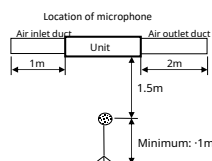


Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

- A Scale
- B Fan speed: High
- C Fan speed: Medium
- D Fan speed: Low

Cooling	Total dBA
A	48,0
B	46,5
C	45,0

Heating	Total dBA
A	48,0
B	46,5
C	45,0



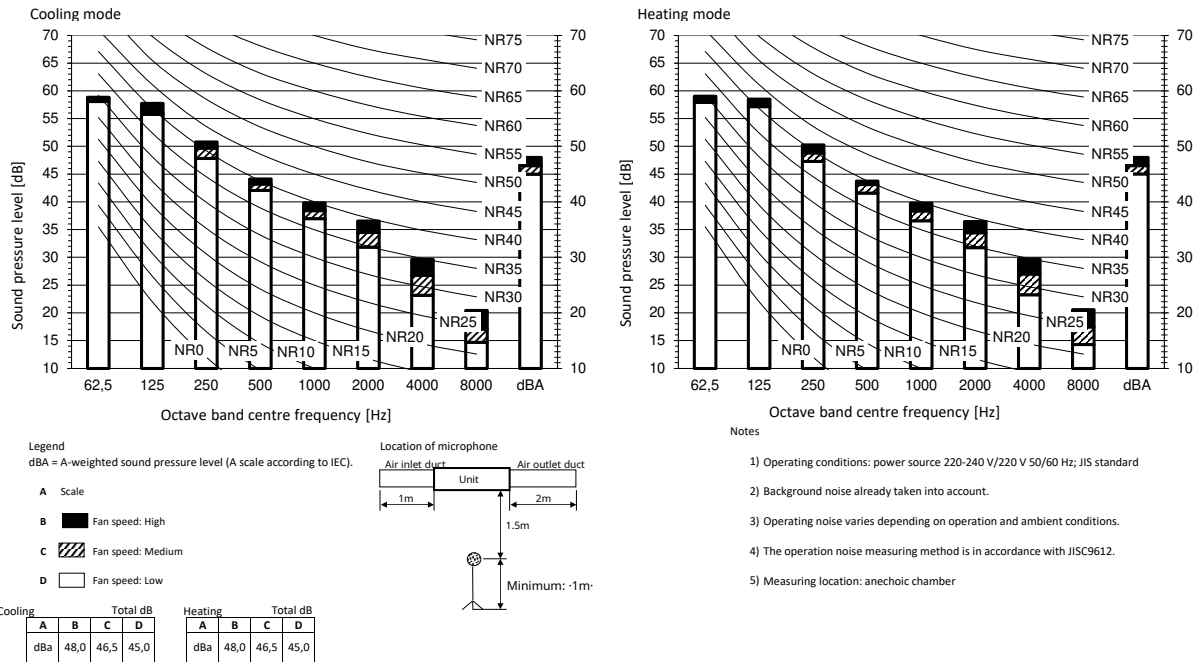
- Notes
- 1) Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
 - 2) Background noise already taken into account.
 - 3) Operating noise varies depending on operation and ambient conditions.
 - 4) The operation noise measuring method is in accordance with JISC9612.
 - 5) Measuring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

4D140667

10 Sound data

10 - 2 Sound Pressure Spectrum

FXMA250A

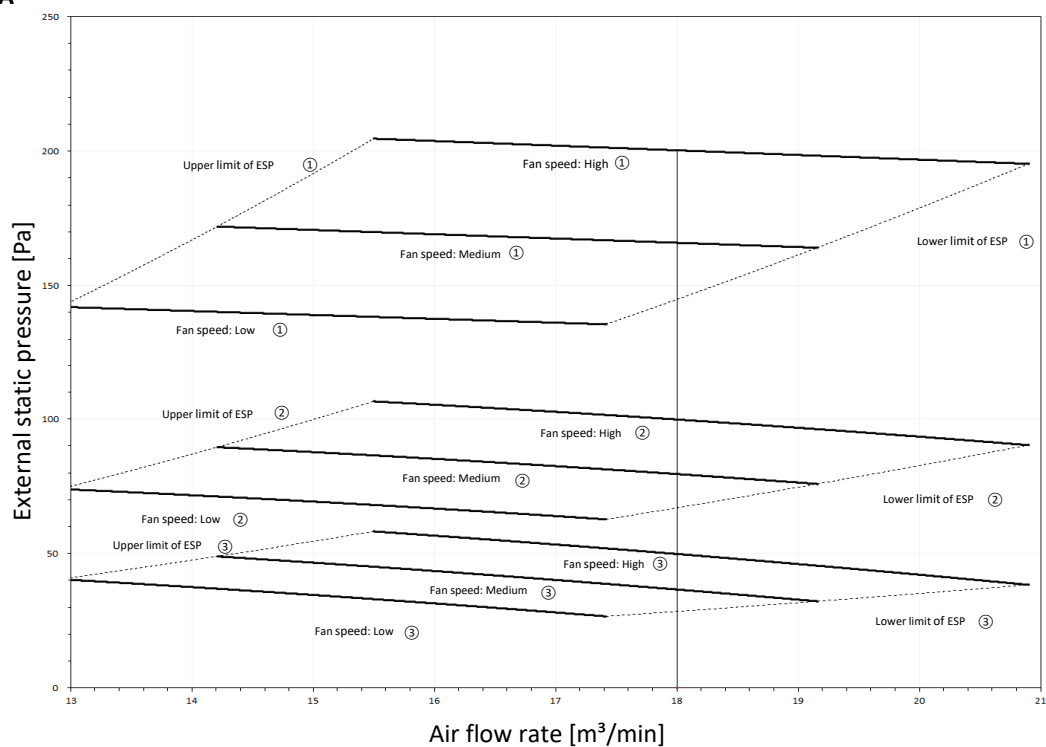


4D140668

11 Fan characteristics

11 - 1 Fan Characteristics

FXMA50A



Mark		ESP [Pa]
①	Maximum	200
②	Standard	100
③	Minimum	50

Notes

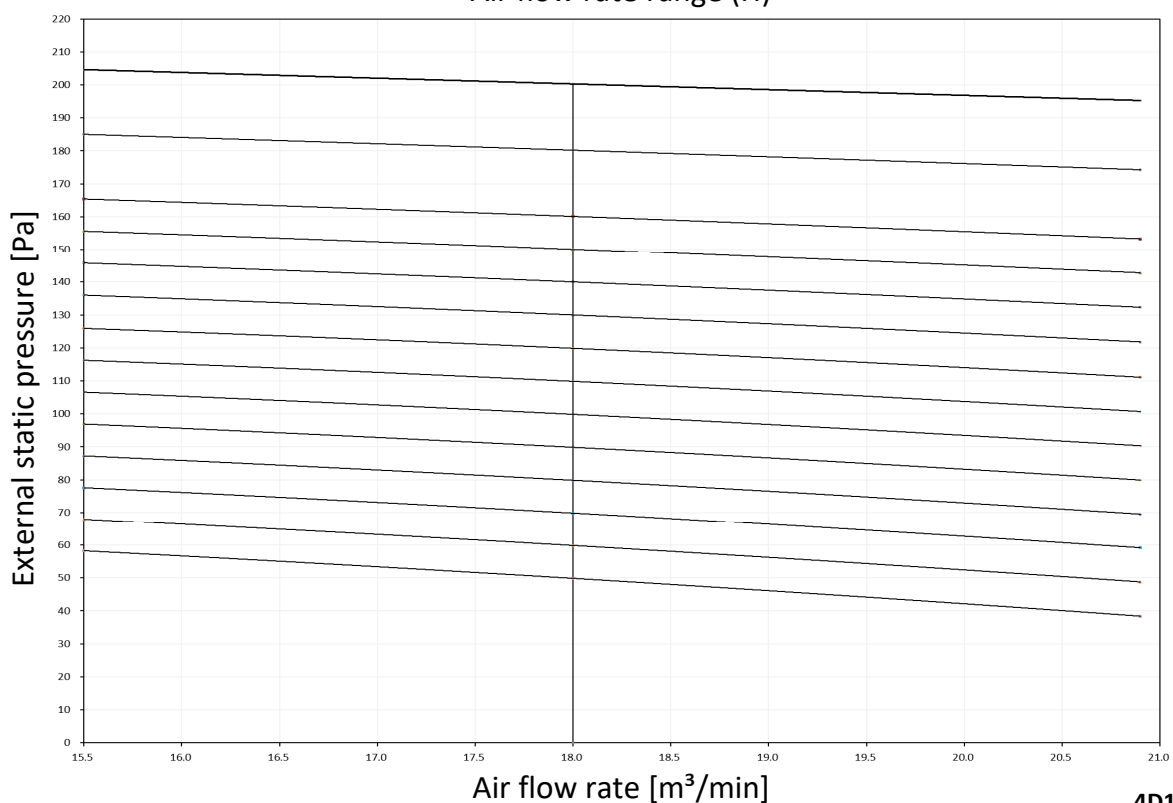
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

4D139872

FXMA50A

Field setting with remote control

Air flow rate range (H)



4D139872

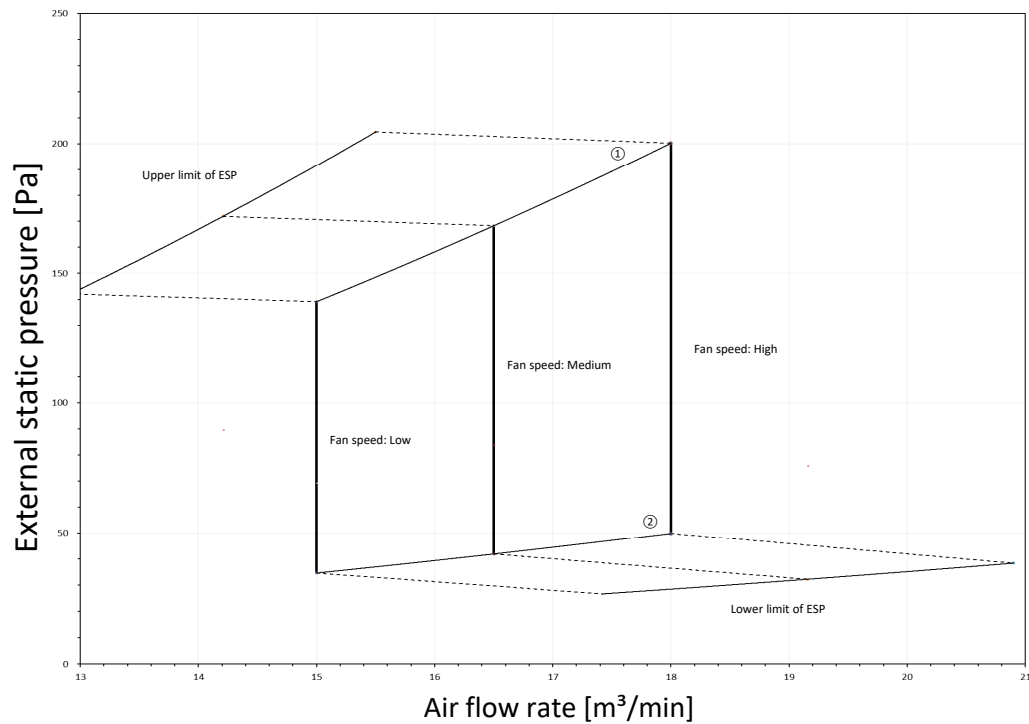
11 Fan characteristics

11 - 1 Fan Characteristics

11

FXMA50A

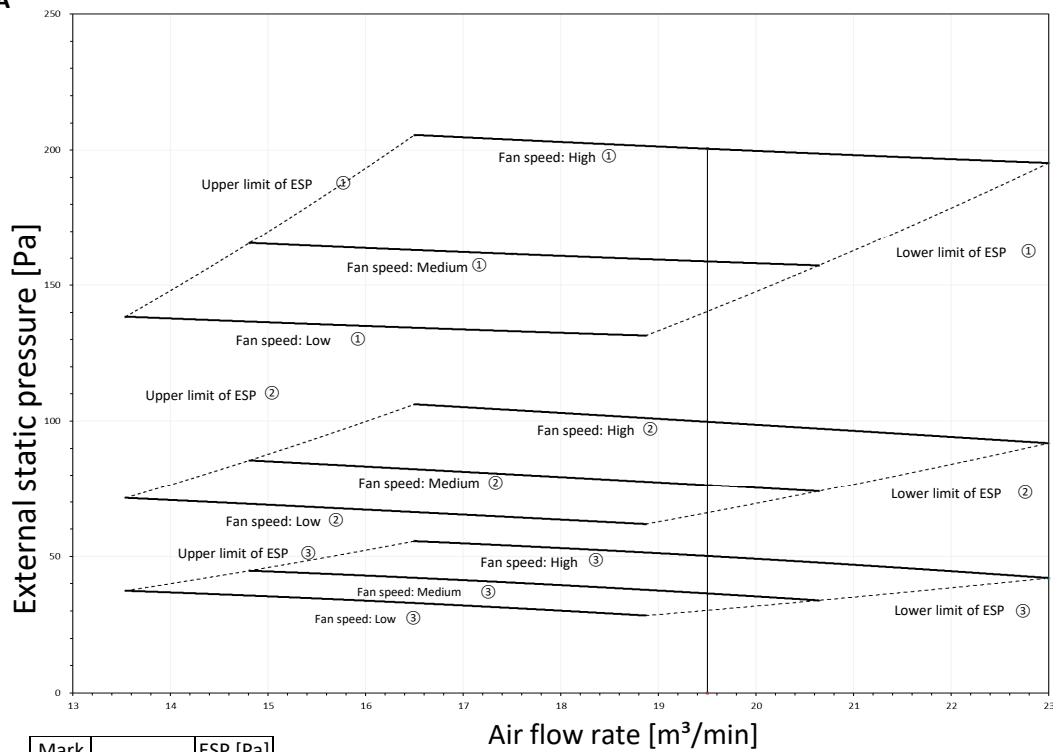
Air flow auto adjustment



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

4D139872

FXMA63A



Mark		ESP [Pa]
①	Maximum	200
②	Standard	100
③	Minimum	50

Notes

- 1. The fan characteristics shown are in "fan only" mode.
- 2. ESP: External Static Pressure

4D139877

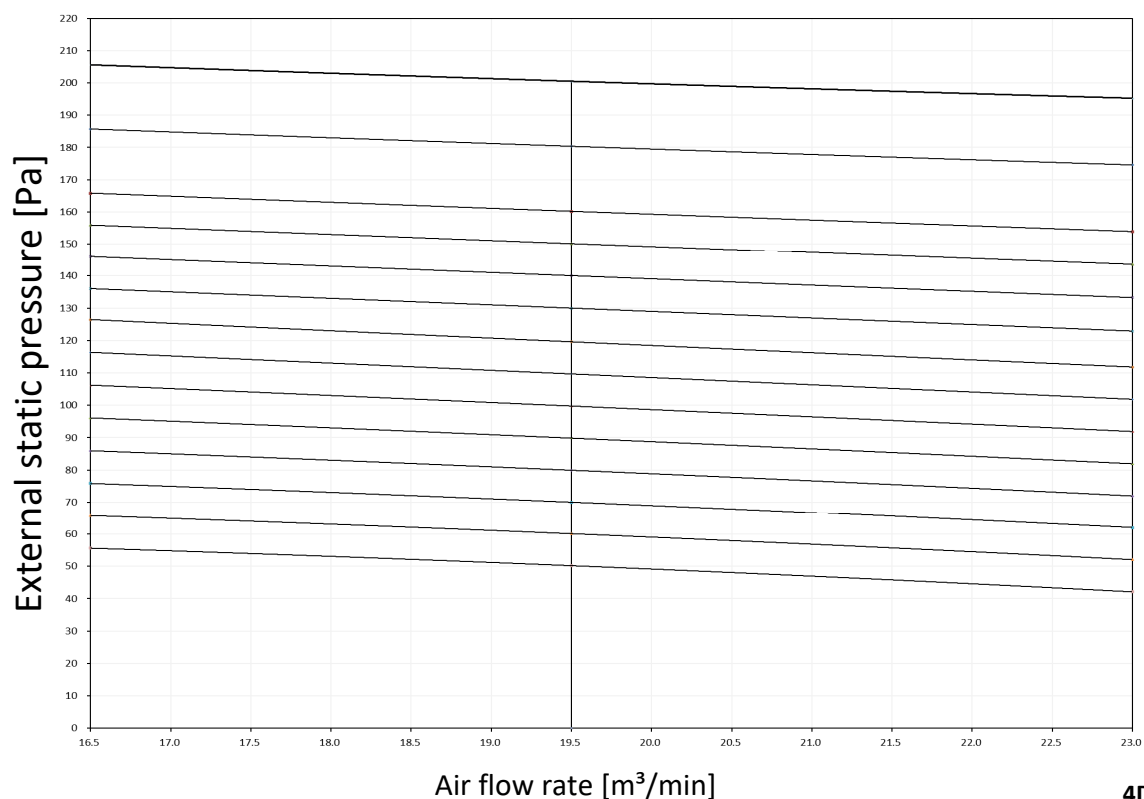
11 Fan characteristics

11 - 1 Fan Characteristics

FXMA63A

Field setting with remote control

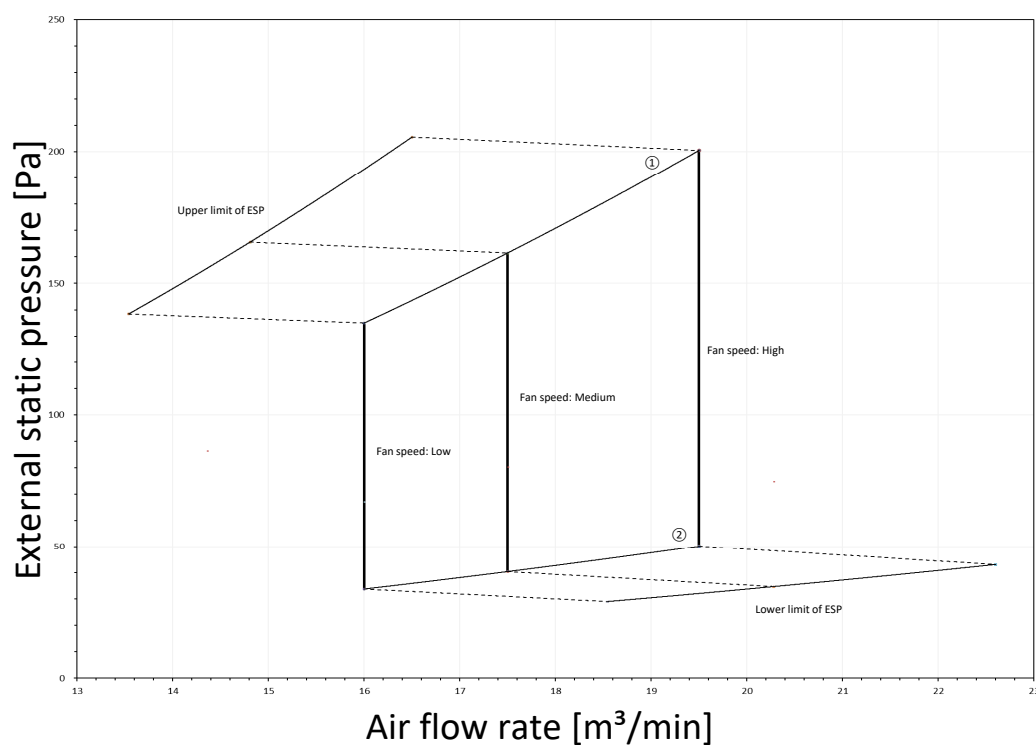
Air flow rate range (H)



4D139877

FXMA63A

Air flow auto adjustment



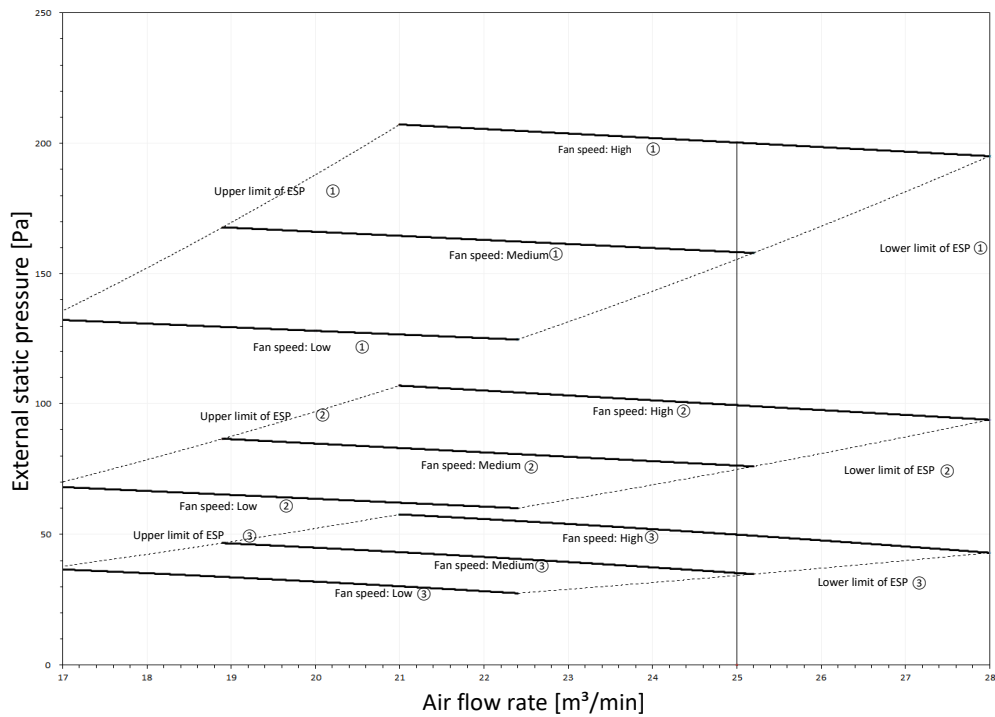
- ① Upper limit of ESP by air flow auto adjustment
- ② Lower limit of ESP by air flow auto adjustment

4D139877

11 Fan characteristics

11 - 1 Fan Characteristics

FXMA80A



Mark		ESP [Pa]
①	Maximum	200
②	Standard	100
③	Minimum	50

Notes

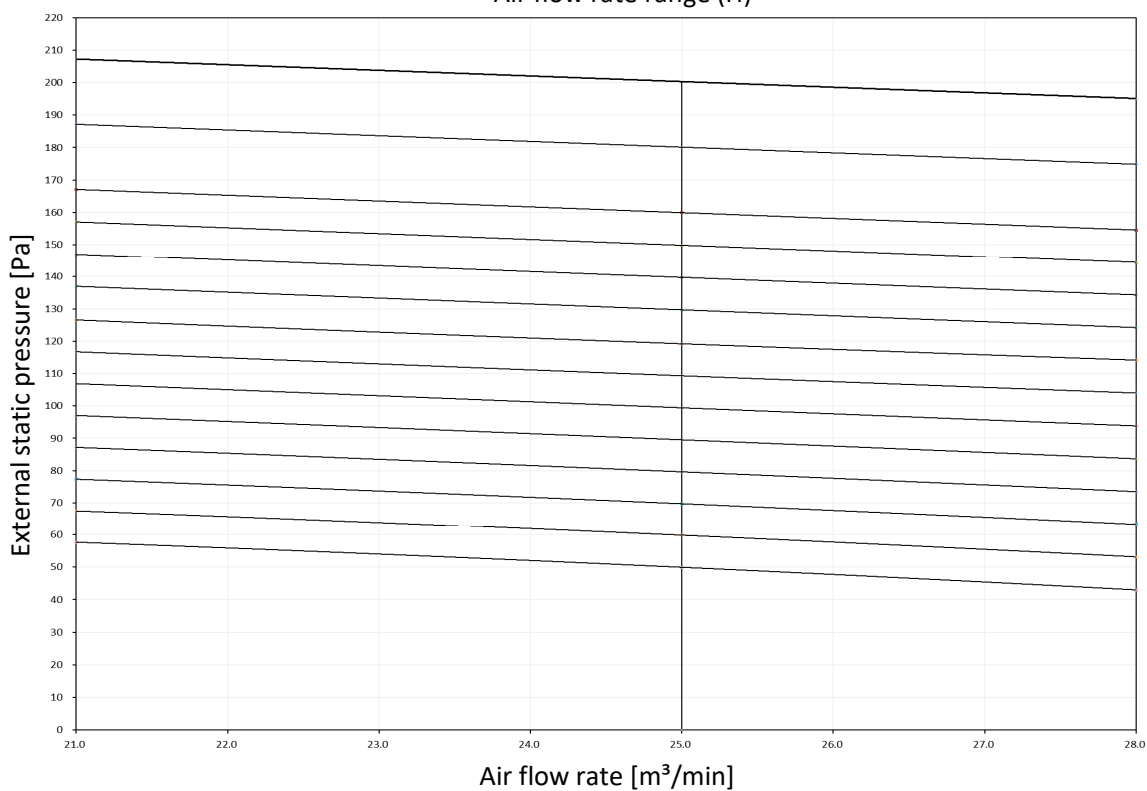
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

4D139878

FXMA80A

Field setting with remote control

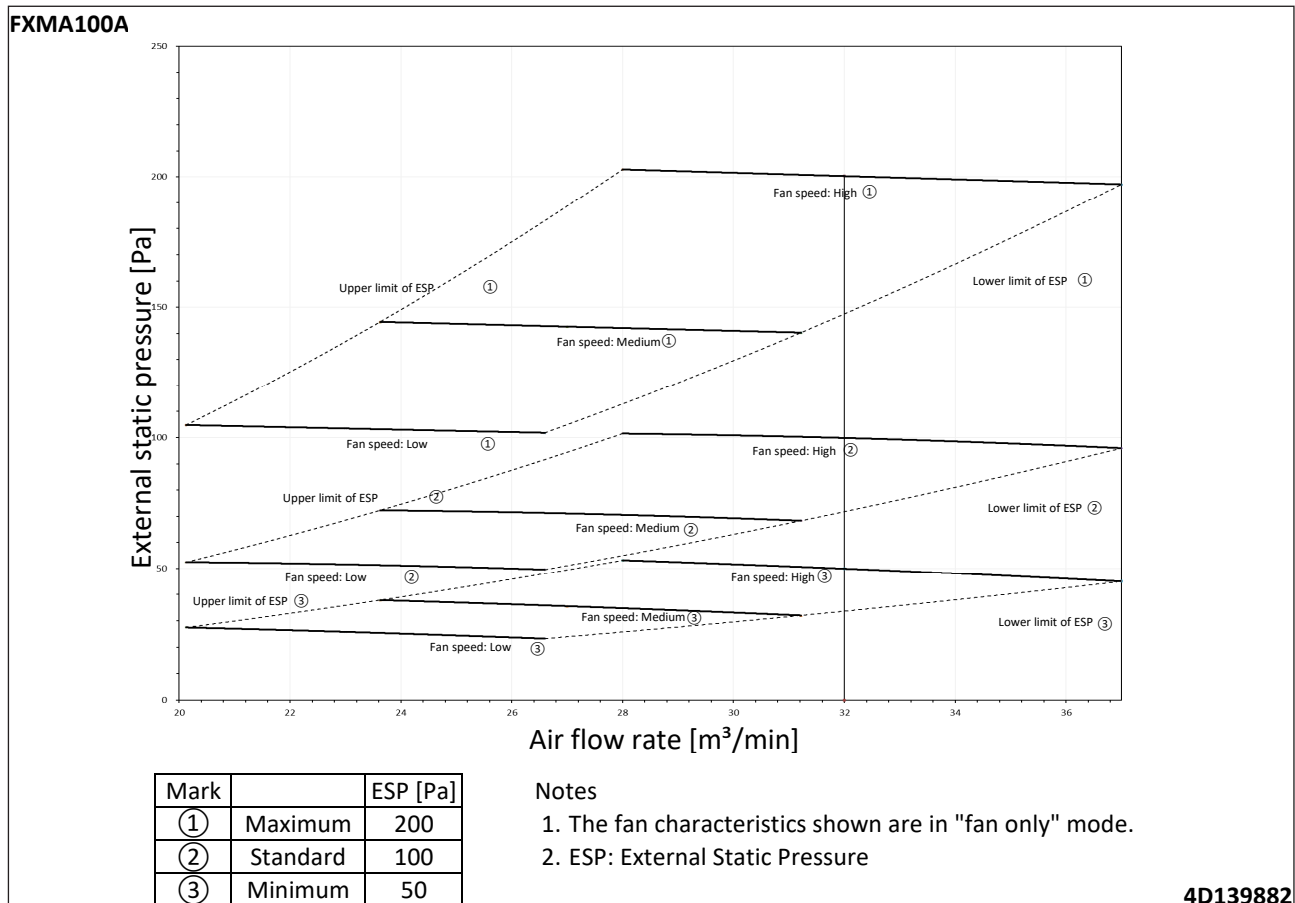
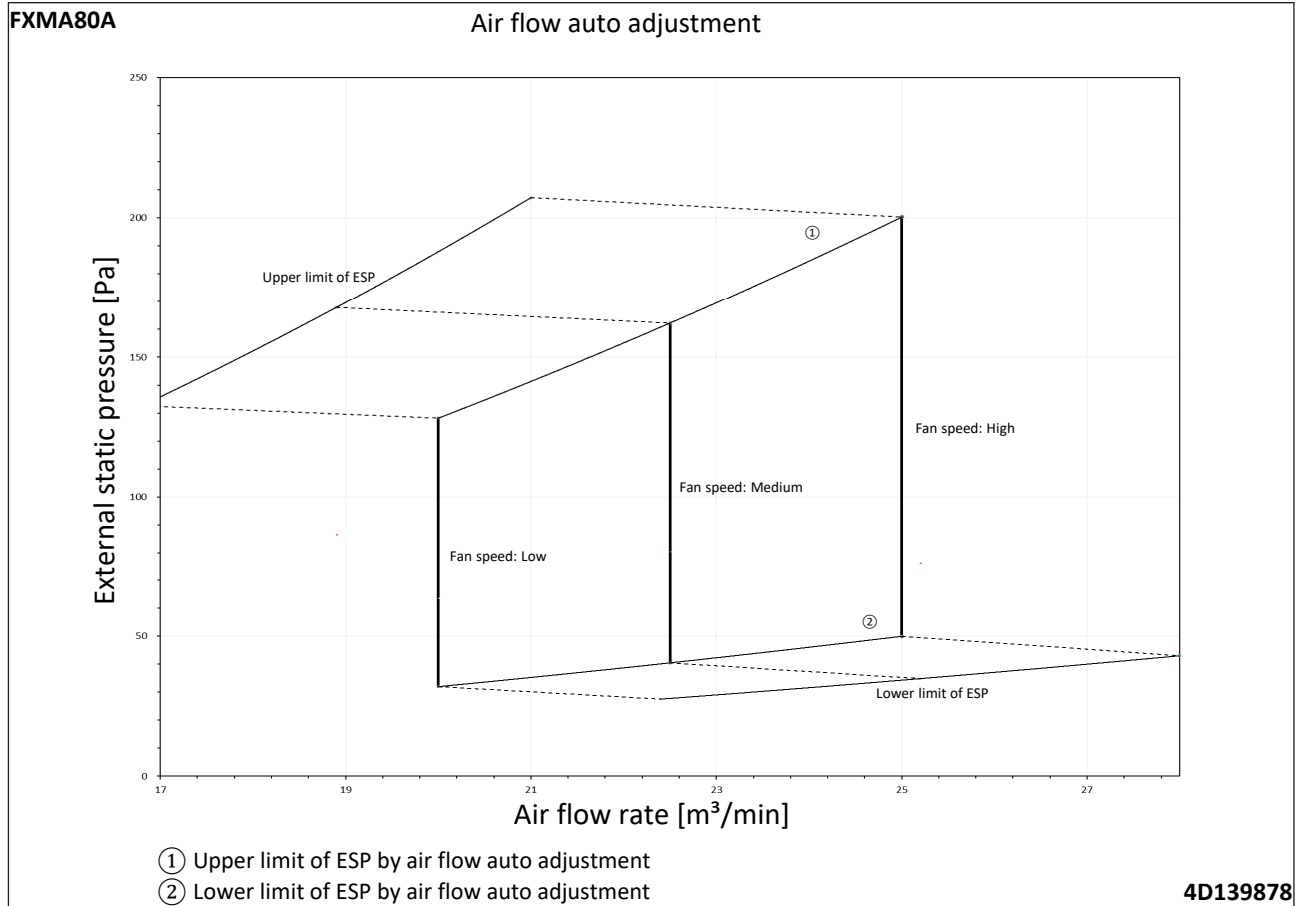
Air flow rate range (H)



4D139878

11 Fan characteristics

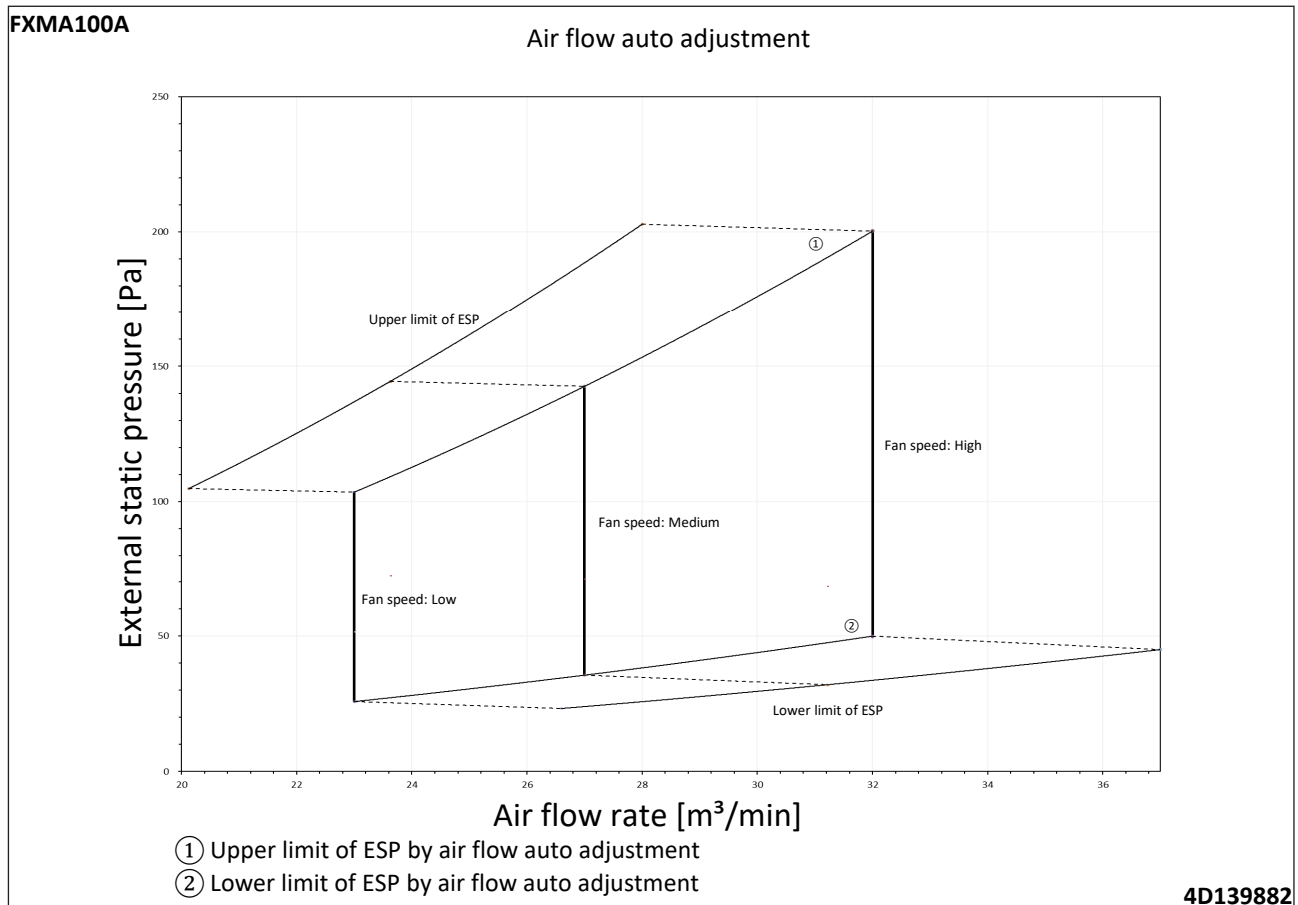
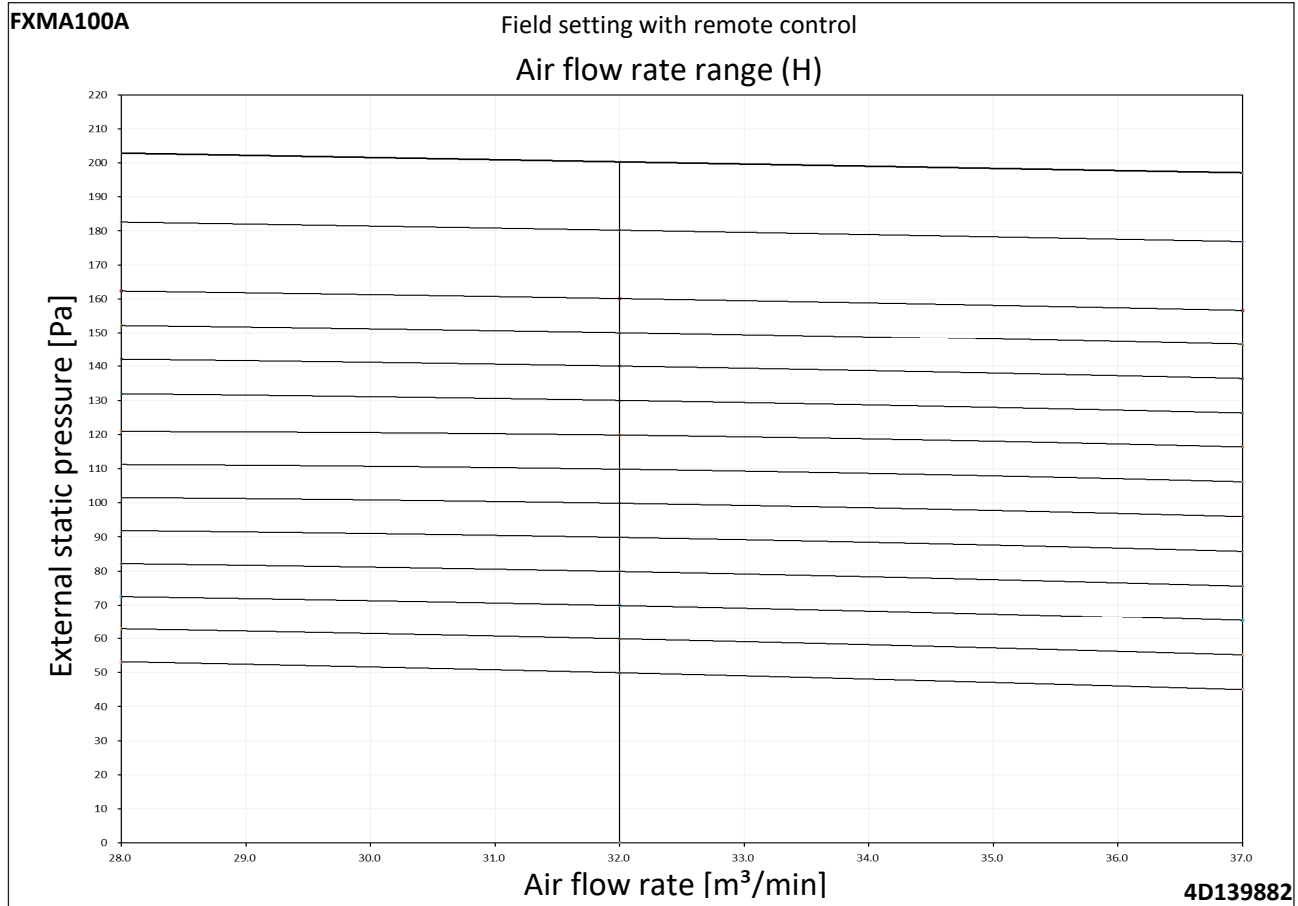
11 - 1 Fan Characteristics



11 Fan characteristics

11 - 1 Fan Characteristics

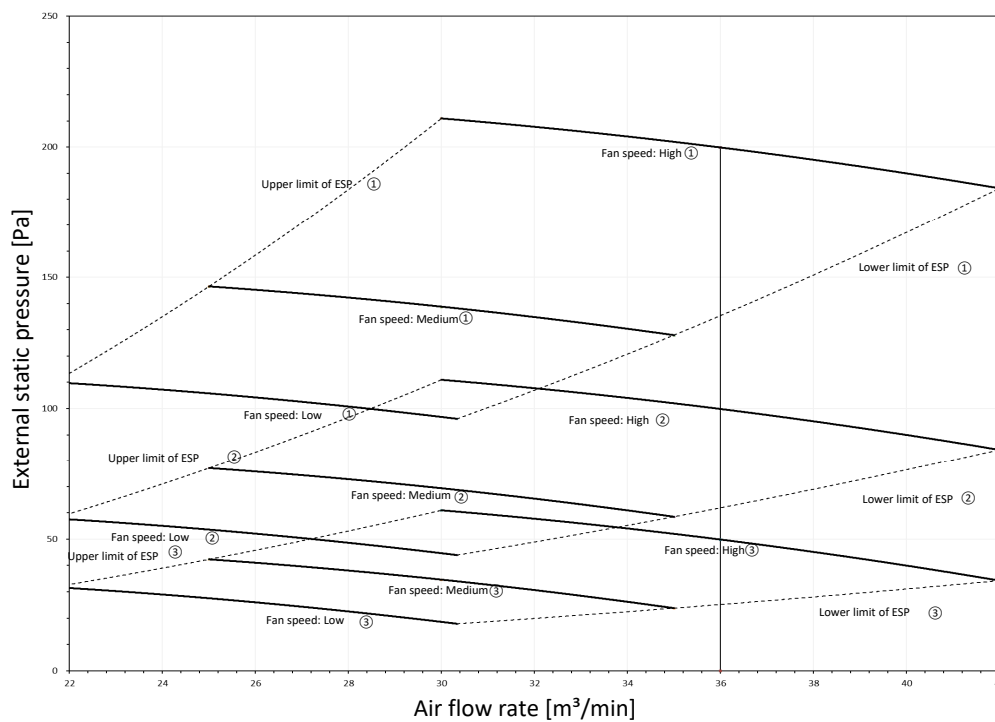
11



11 Fan characteristics

11 - 1 Fan Characteristics

FXMA125A



Mark		ESP [Pa]
①	Maximum	200
②	Standard	100
③	Minimum	50

Notes

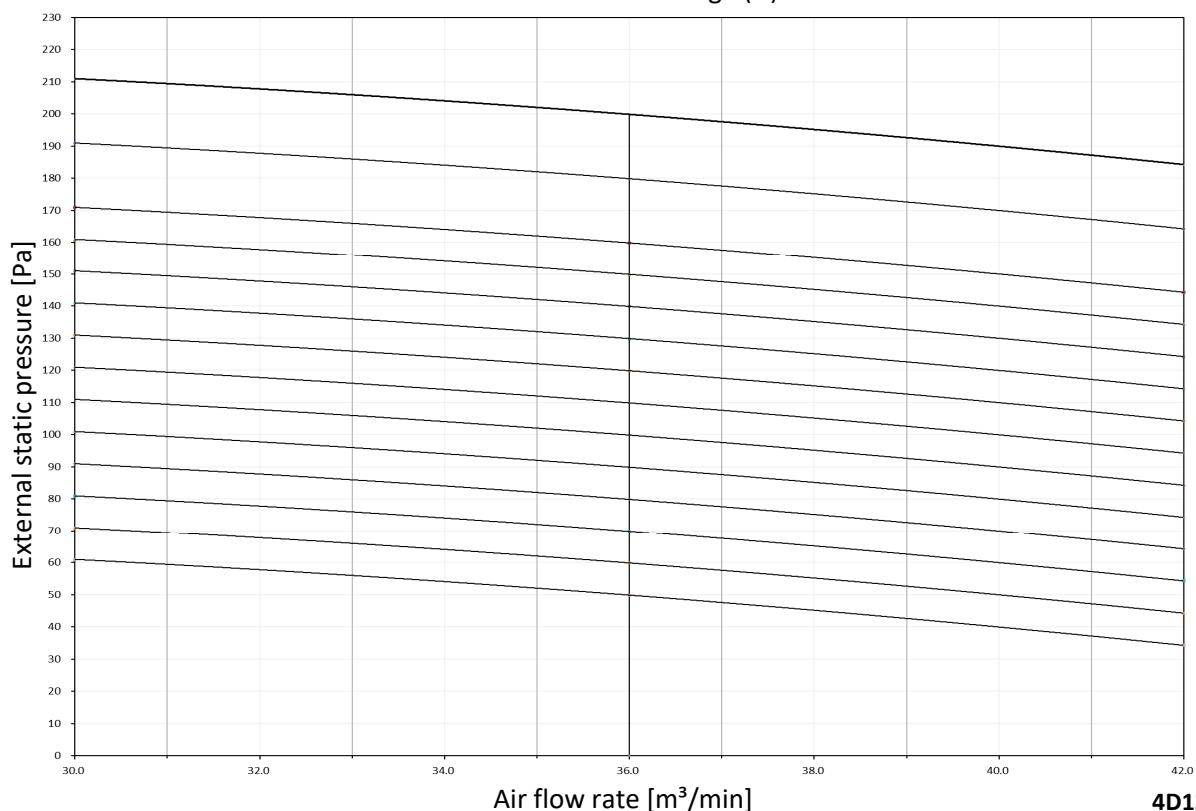
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

4D139884

FXMA125A

Field setting with remote control

Air flow rate range (H)



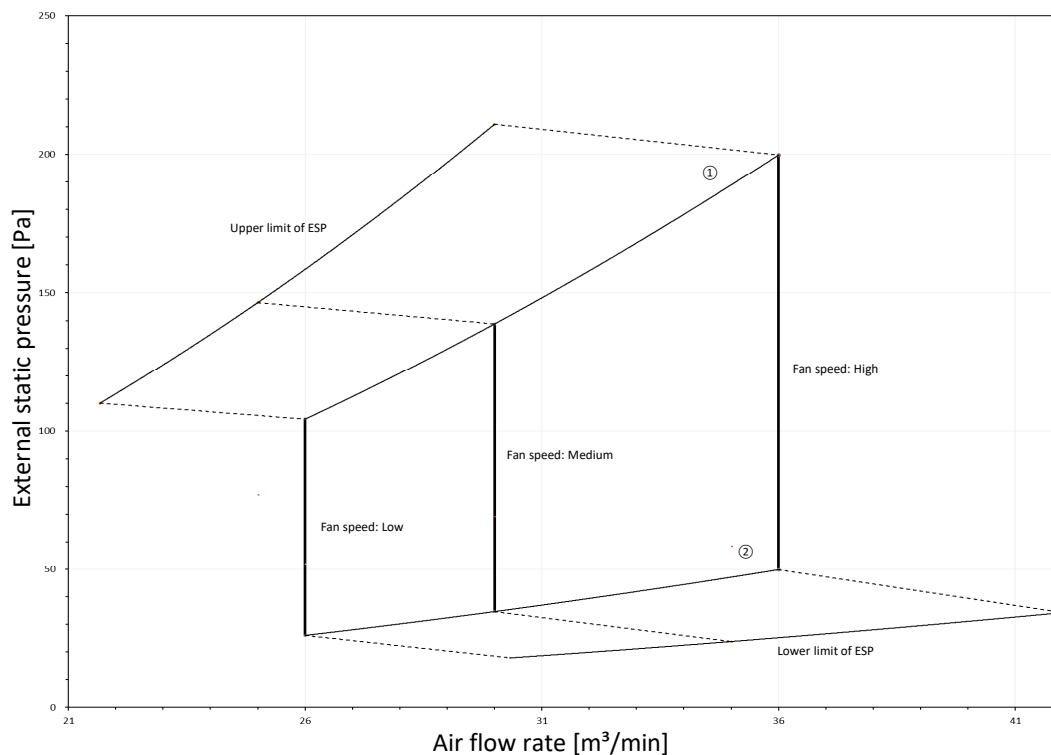
4D139884

11 Fan characteristics

11 - 1 Fan Characteristics

FXMA125A

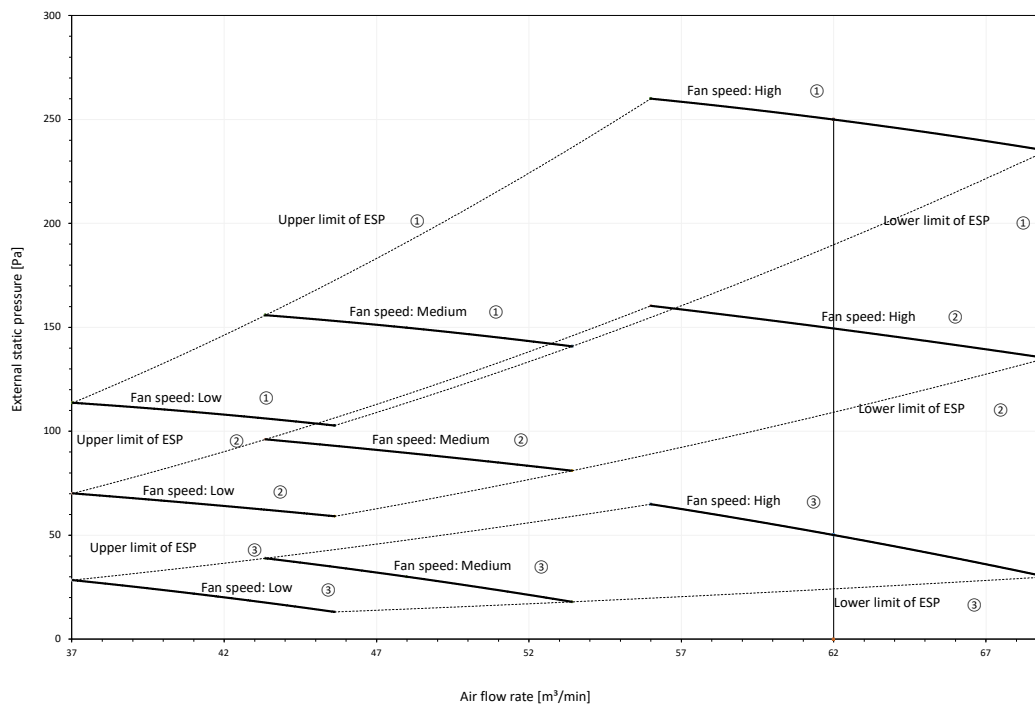
Air flow auto adjustment



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

4D139884

FXMA200A



Mark		ESP [Pa]
①	Maximum	250
②	Standard	150
③	Minimum	50

- Notes
- 1. The fan characteristics shown are in "fan only" mode.
 - 2. ESP: External Static Pressure

4D140823

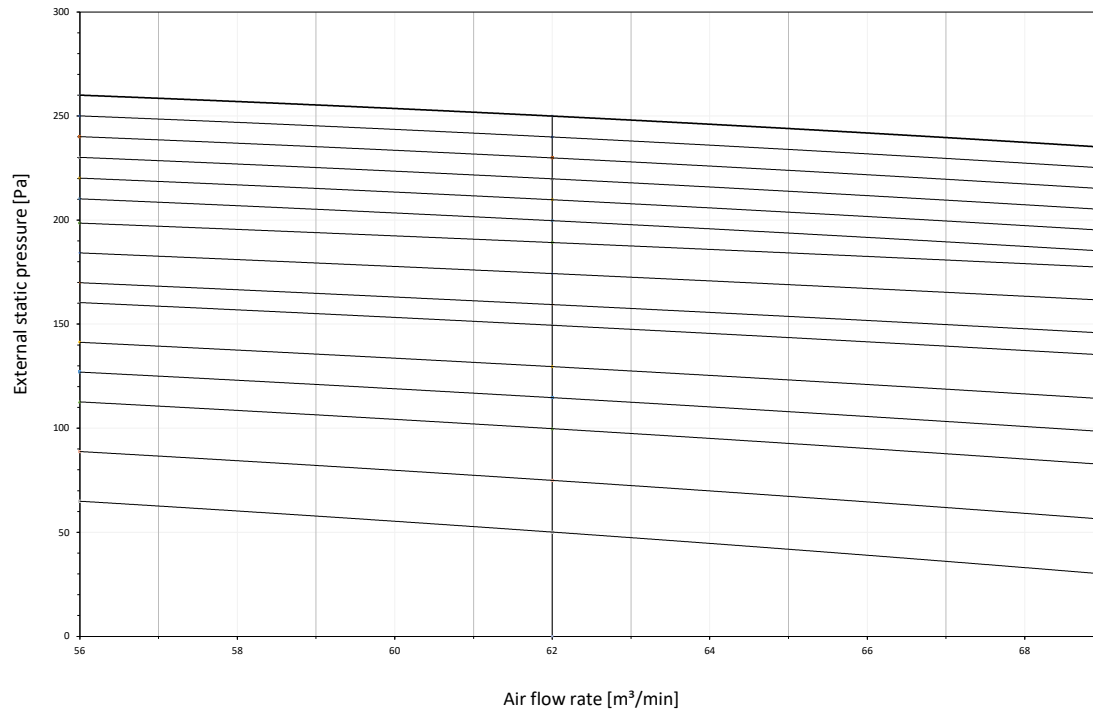
11 Fan characteristics

11 - 1 Fan Characteristics

11

FXMA200A

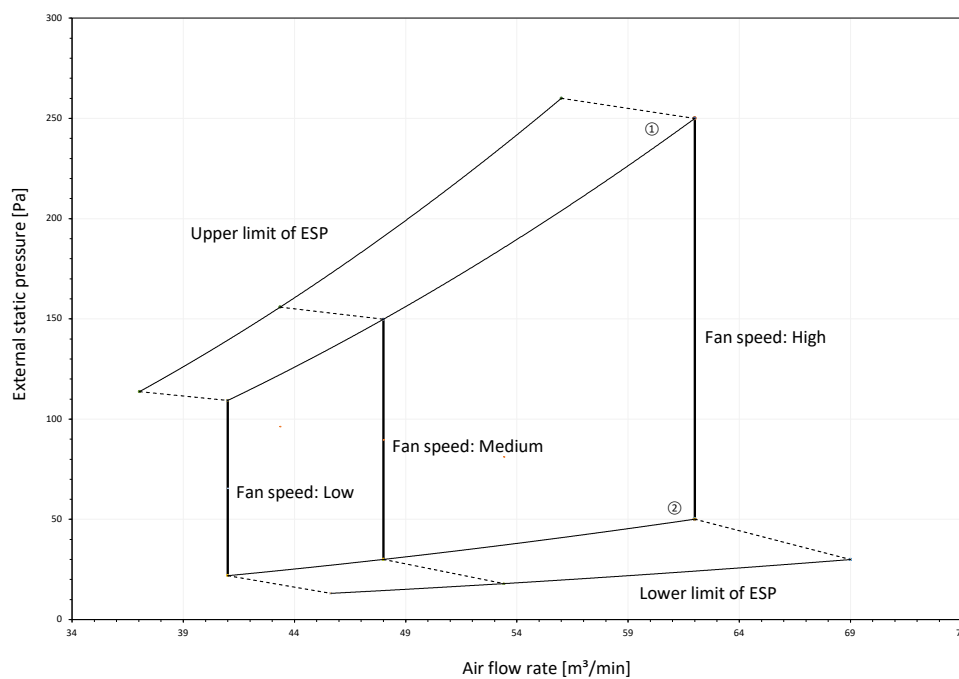
Field setting with remote control
Air flow rate range (H)



4D140823

FXMA200A

Air flow auto adjustment



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

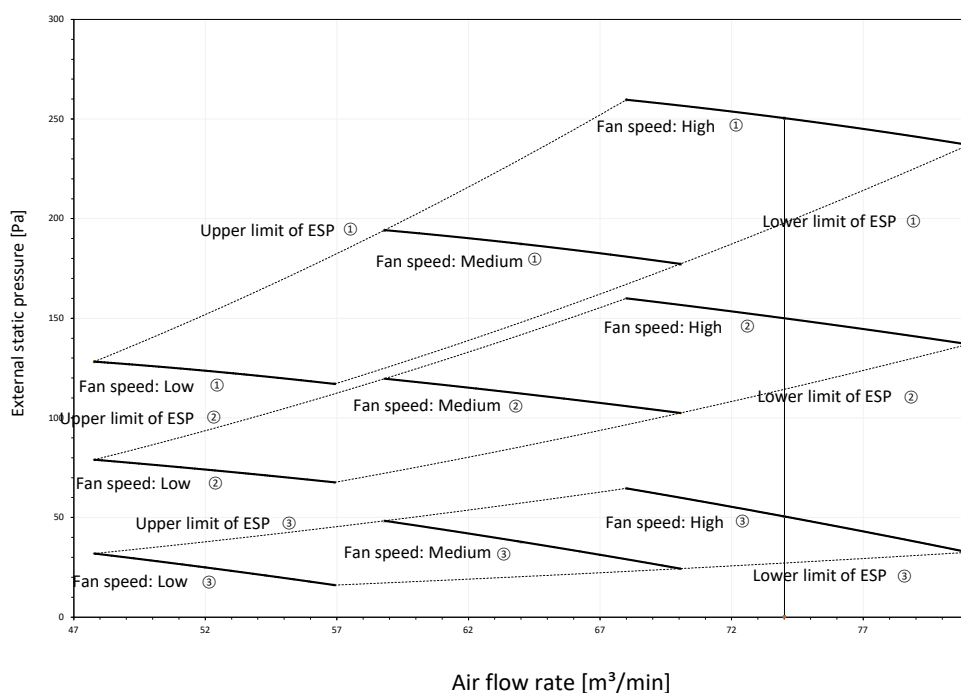
4D140823

11 Fan characteristics

11 - 1 Fan Characteristics

11

FXMA250A



Mark		ESP [Pa]
①	Maximum	250
②	Standard	150
③	Minimum	50

Notes

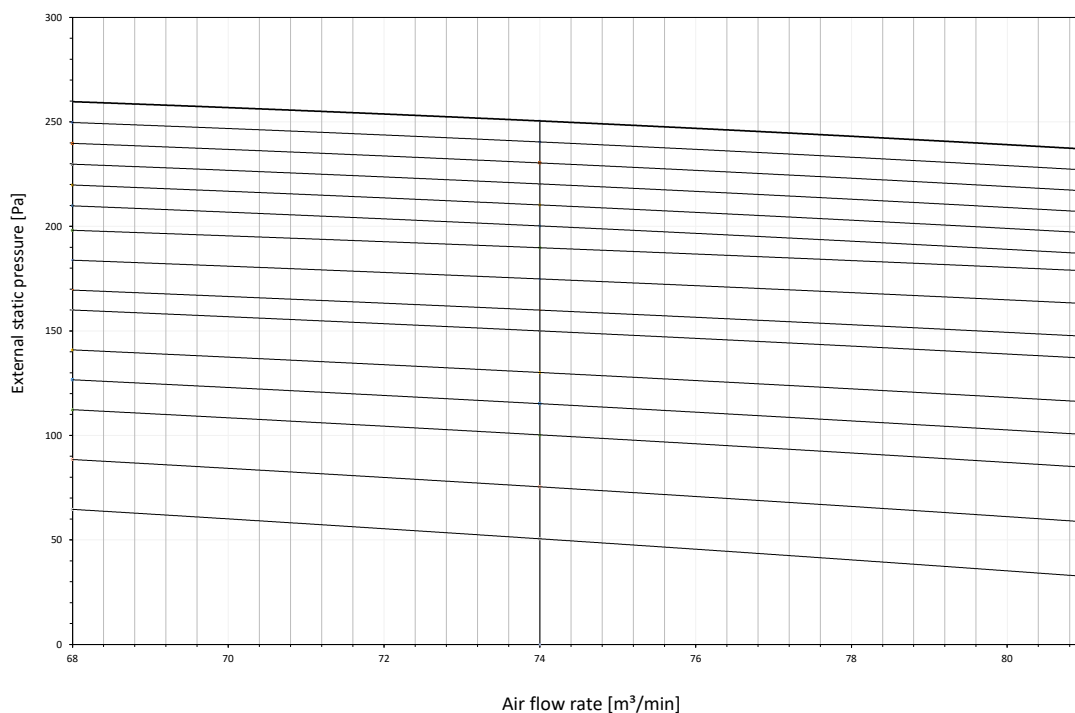
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

4D140824

FXMA250A

Field setting with remote control

Air flow rate range (H)



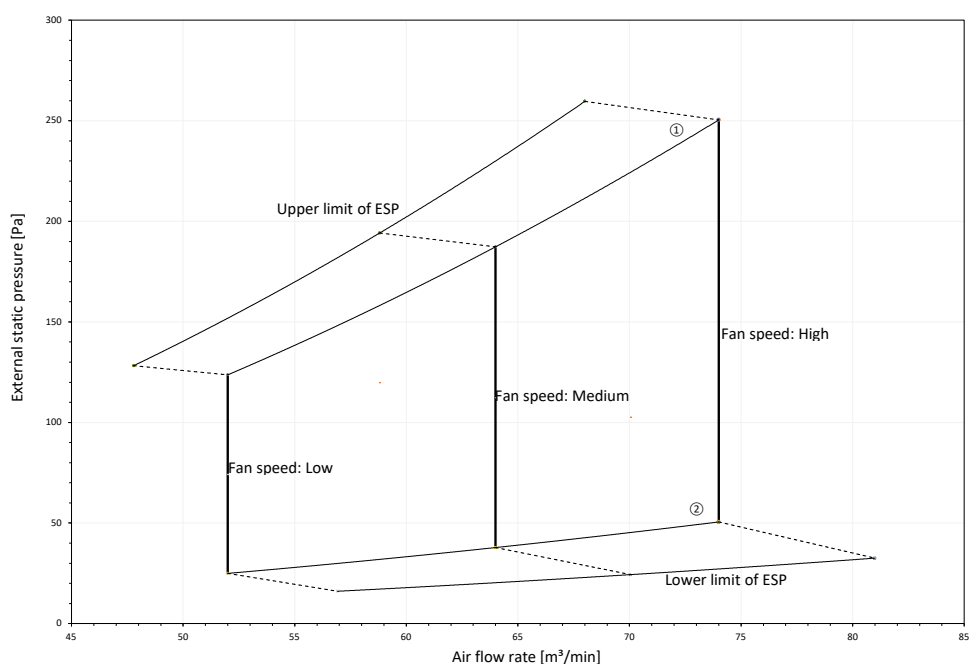
4D140824

11 Fan characteristics

11 - 1 Fan Characteristics

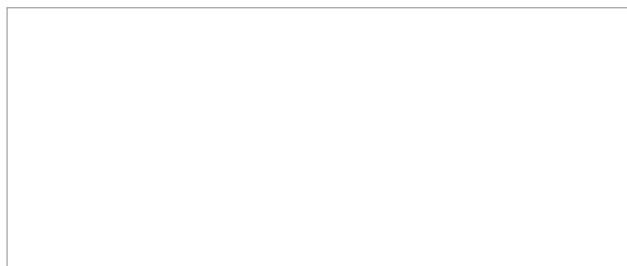
FXMA250A

Air flow auto adjustment



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

4D140824



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04/2026



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