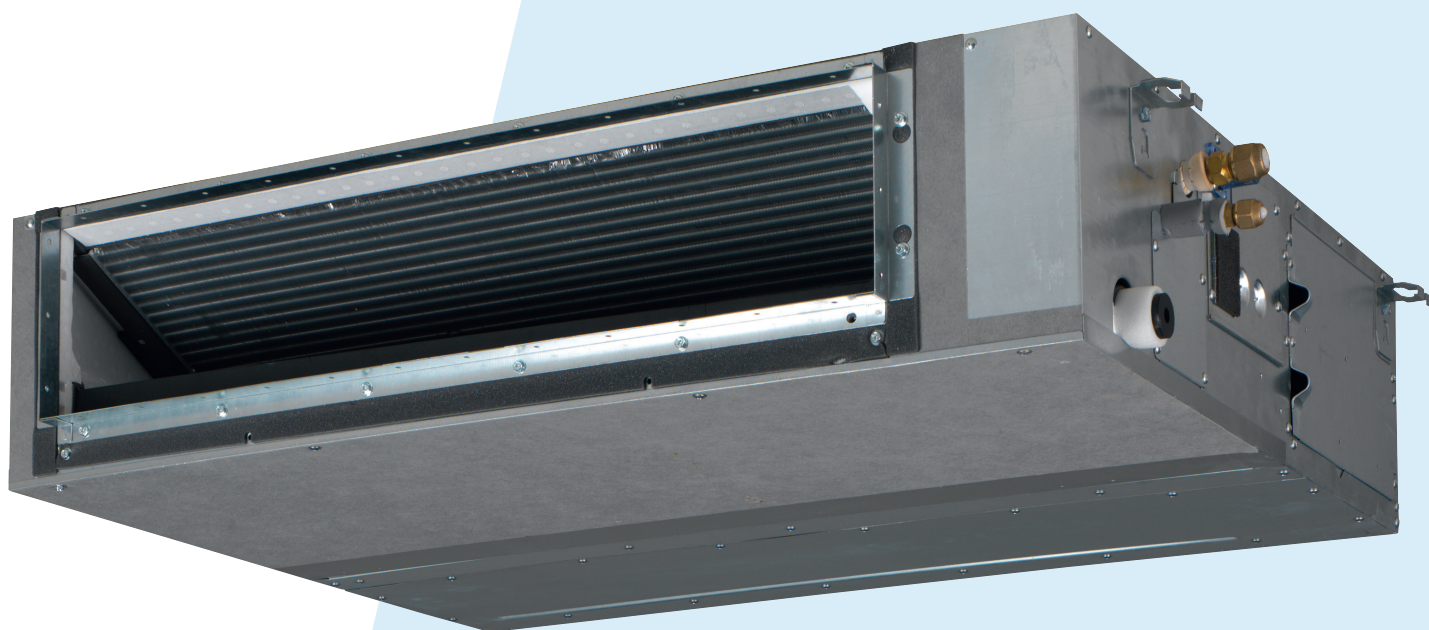


Concealed ceiling unit with medium ESP

Air Conditioning Technical Data

FXSA-A



FXSA15A2VEB
FXSA20A2VEB
FXSA25A2VEB
FXSA32A2VEB
FXSA40A2VEB
FXSA50A2VEB
FXSA63A2VEB
FXSA80A2VEB
FXSA100A2VEB
FXSA125A2VEB
FXSA140A2VEB

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FXSA-A

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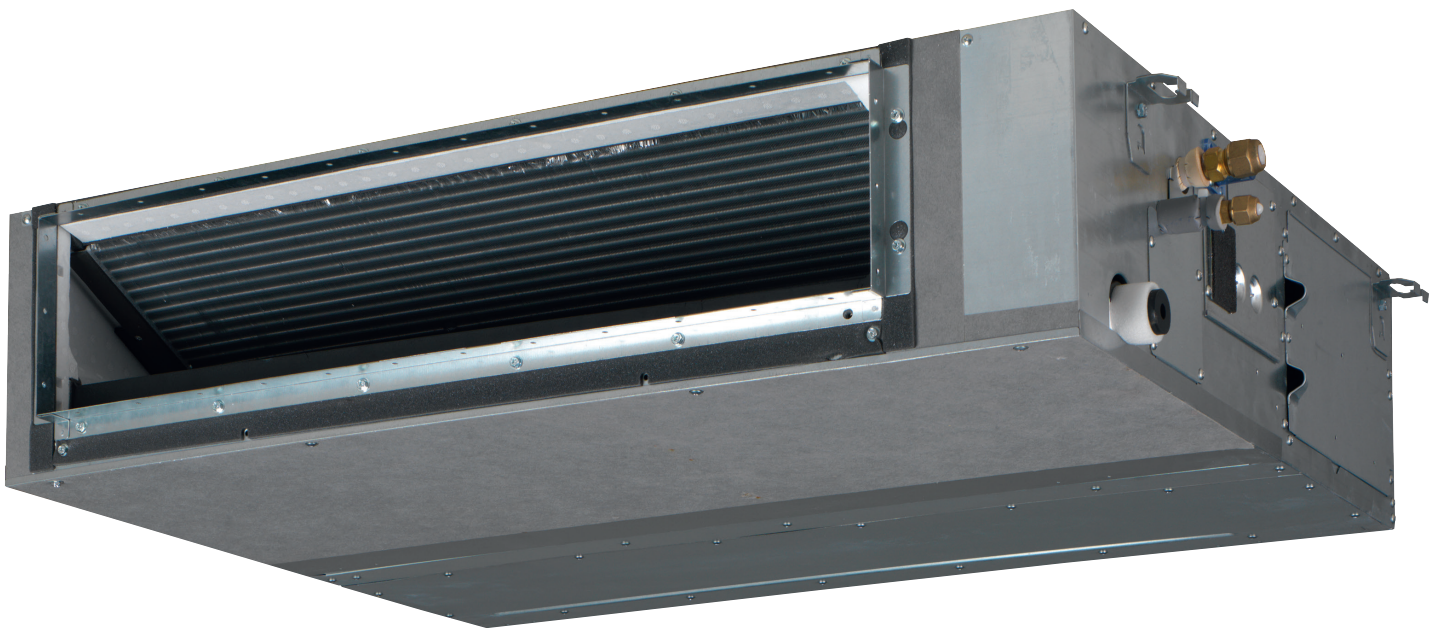
1 Features

1 - 1 FXSA-A

Slimmest yet most powerful medium static pressure unit on the market

1

- › Optimised design for R-32 refrigerant
- › Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- › Quiet operation: down to 25dBA sound pressure level
- › Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- › 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
- › 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- › Optional fresh air intake
- › Flexible installation: air suction direction can be altered from rear to bottom suction and choice between free use or connection to optional suction grilles
- › Standard built-in drain pump with 625mm lift increases flexibility and installation speed
- › Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required



Onecta app
(optional)



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

2 - 1 Specifications

Technical specifications					FXSA15A	FXSA20A	FXSA25A	FXSA32A	FXSA40A	FXSA50A	
Cooling capacity	Sensible capacity	At high fan speed		kW	1.20	1.60	2.00	2.60	3.30	4.00	
		At medium fan speed		kW	1.00	1.30	1.70	2.20	2.80	3.30	
		At low fan speed		kW	0.90	1.10	1.50	1.80	2.30	2.70	
	Latent capacity	At high fan speed		kW	0.50	0.60	0.80	1.00	1.20	1.60	
		At medium fan speed		kW	0.50	0.60	0.80	0.90	1.10	1.40	
		At low fan speed		kW	0.50	0.60	0.70	0.90	1.10	1.30	
	Total capacity	At high fan speed		kW	1.70	2.20	2.80	3.60	4.50	5.60	
		At medium fan speed		kW	1.50	1.90	2.50	3.10	3.90	4.70	
		At low fan speed		kW	1.40	1.70	2.20	2.70	3.40	4.00	
Heating capacity	Total capacity	At high fan speed		kW	1.90	2.50	3.20	4.00	5.00	6.30	
		At medium fan speed		kW	1.60	2.10	2.70	3.40	4.20	5.10	
		At low fan speed		kW	1.50	1.80	2.30	2.90	3.60	4.10	
Power input - 50Hz	Cooling	At high fan speed		kW	0.046 (1)		0.049 (1)		0.094 (1)	0.096 (1)	
		At medium fan speed		kW	0.032 (1)		0.035 (1)		0.062 (1)	0.067 (1)	
		At low fan speed		kW	0.026 (1)		0.028 (1)		0.044 (1)	0.047 (1)	
	Heating	At high fan speed		kW	0.046 (1)		0.049 (1)		0.094 (1)	0.096 (1)	
		At medium fan speed		kW	0.032 (1)		0.035 (1)		0.062 (1)	0.067 (1)	
		At low fan speed		kW	0.026 (1)		0.028 (1)		0.044 (1)	0.047 (1)	
Power input - 60Hz	Cooling	At high fan speed		kW	0.046 (1)		0.049 (1)		0.094 (1)	0.096 (1)	
	Heating	At high fan speed		kW	0.046 (1)		0.049 (1)		0.094 (1)	0.096 (1)	
Dimensions	Unit	Height		mm	245						
		Width		mm	550				700		
		Depth		mm	800						
	Packed unit	Height		mm	890						
		Width		mm	750				900		
		Depth		mm	295						
Weight	Unit			kg	23.5		24.0		28.5	29.0	
	Packed unit			kg	26.0		27.0		31.0	31.5	
Casing	Colour		Not painted (galvanised)								
	Material		Galvanised steel plate								
Heat exchanger	Inside length		mm	342				492			
	Rows	Quantity		3							
	Fin pitch		mm	1.40							
	Passes	Quantity		4				6			
	Face area		m²	0.124				0.178			
	Stages	Quantity		26							
Heat exchanger	Empty tubeplate hole	Quantity		26				0		26	0
	Fin	Type		Cross fin coil (Multi slit fins with hydrophilic treatment and Ø5Hi-XA tubes)							
Fan	Type		Sirocco fan								
	Quantity		1								
	Air flow rate - 50Hz	Cooling	At high fan speed		m³/min	8.7	9.0		9.5	15.0	15.2
			At medium fan speed		m³/min	7.5		8.0		12.5	
			At low fan speed		m³/min	6.5		7.0		11.0	
		Heating	At high fan speed		m³/min	8.7	9.0		9.5	15.0	15.2
			At medium fan speed		m³/min	7.5		8.0		12.5	
			At low fan speed		m³/min	6.5		7.0		11.0	
	Air flow rate - 60Hz	Cooling	At high fan speed		cfm	307	318		335	530	537
			At medium fan speed		cfm	265		283		441	
			At low fan speed		cfm	230		247		388	
		Heating	At high fan speed		cfm	307	318		335	530	537
			At medium fan speed		cfm	265		283		441	
			At low fan speed		cfm	230		247		388	
	External static pressure - 50Hz	Factory set	Pa		30						
		High	Pa		150						
Sound power level	Cooling	At high fan speed		dBA	54			55		60	
Sound pressure level	Cooling	At high fan speed		dBA	29.5	30.0		31.0		35.0	
		At medium fan speed		dBA	28.0			29.0		32.0	
		At low fan speed		dBA	25.0			26.0		29.0	
	Heating	At high fan speed		dBA	31.5	32.0		33.0		37.0	
		At medium fan speed		dBA	29.0			30.0		34.0	
		At low fan speed		dBA	26.0			27.0		29.0	
Fan motor	Quantity		1								
	Speed	Steps		3							
		Cooling	High	rpm	1,124			1,158	1,249	1,259	
		Heating	High	rpm	1,124			1,158	1,249	1,259	
	Output	Max		W	78				130		
Refrigerant	Type	R-32									
	GWP	675.0									

2 Specifications

2 - 1 Specifications

2

Technical specifications				FXSA15A	FXSA20A	FXSA25A	FXSA32A	FXSA40A	FXSA50A
Piping connections	Liquid	Type		Flare connection					
		OD	mm	6					
	Gas	Type		Flare connection					
		OD	mm	9.52				12.70	
	Drain				VP20 (I.D. 20/O.D. 26), drain height 625 mm				
Piping connections	Heat insulation		Foamed polystyrene / Foamed polyethylene						
	Sound absorbing insulation		Butyl Rubber						
Drain-up height			mm	625					
Air filter	Type	Resin net							
Safety devices	Item	01	PC board fuse						
		02	Fan motor overcurrent protector						
Control systems	Infrared remote control		BRC4C65 / BRC4C66						
	Wired remote control		BRC1H52W/S/K						

Technical specifications				FXSA63A		FXSA80A		FXSA100A		FXSA125A		FXSA140A		
Cooling capacity	Sensible capacity	At high fan speed	kW	5.10	6.40	8.10	10.10	11.50						
		At medium fan speed	kW	4.10	5.30	6.20	8.10	9.30						
		At low fan speed	kW	3.20	3.70	3.90	6.20	6.90						
	Latent capacity	At high fan speed	kW	2.00	2.60	3.10	3.90	4.50						
		At medium fan speed	kW	1.70	2.20	2.50	3.30	3.80						
		At low fan speed	kW	1.50	1.70	1.90	2.80	3.20						
	Total capacity	At high fan speed	kW	7.10	9.00	11.20	14.00	16.00						
		At medium fan speed	kW	5.80	7.50	8.70	11.40	13.10						
		At low fan speed	kW	4.70	5.40	5.80	9.00	10.10						
Heating capacity	Total capacity	At high fan speed	kW	8.00	10.00	12.50	16.00	18.00						
		At medium fan speed	kW	6.30	8.30	9.30	12.80	14.00						
		At low fan speed	kW	5.00	5.90	6.00	9.80	10.50						
Power input - 50Hz	Cooling	At high fan speed	kW	0.106 (1)	0.143 (1)	0.176 (1)	0.216 (1)	0.272 (1)						
		At medium fan speed	kW	0.070 (1)	0.093 (1)	0.111 (1)	0.158 (1)	0.179 (1)						
		At low fan speed	kW	0.052 (1)	0.061 (1)	0.074 (1)	0.100 (1)	0.112 (1)						
	Heating	At high fan speed	kW	0.106 (1)	0.143 (1)	0.176 (1)	0.216 (1)	0.272 (1)						
		At medium fan speed	kW	0.070 (1)	0.093 (1)	0.111 (1)	0.158 (1)	0.179 (1)						
		At low fan speed	kW	0.052 (1)	0.061 (1)	0.074 (1)	0.100 (1)	0.112 (1)						
Power input - 60Hz	Cooling	At high fan speed	kW	0.106 (1)	0.143 (1)	0.176 (1)	0.216 (1)	0.272 (1)						
	Heating	At high fan speed	kW	0.106 (1)	0.143 (1)	0.176 (1)	0.216 (1)	0.272 (1)						
Dimensions	Unit	Height	mm	245		1,400		1,550						
		Width	mm	1,000		800								
		Depth	mm			890								
	Packed unit	Height	mm	890		1,600		1,750						
		Width	mm	1,200										
		Depth	mm			295								
Weight	Unit	kg	35.5	36.5	46.0	47.0	51.0							
	Packed unit	kg	38.0	39.0	49.0		54.0							
Casing	Colour	Not painted (galvanised)												
	Material	Galvanised steel plate												
Heat exchanger	Inside length		mm	792		1,192		1,342						
	Rows	Quantity	3											
	Fin pitch		mm	1.40										
	Passes	Quantity	12					16						
	Face area		m²	0.288		0.433		0.488						
	Stages	Quantity	26											
	Heat exchanger	Empty tubeplate hole	Quantity	26	0	26	0							
Fin		Type	Cross fin coil (Multi slit fins with hydrophilic treatment and Ø5Hi-XA tubes)											
Fan	Type		Sirocco fan											
	Quantity		2				3							
	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	21.0	23.0	32.0	36.0	39.0					
			At medium fan speed	m³/min	18.0	19.5	27.0	31.5	34.0					
			At low fan speed	m³/min	15.0	16.0	23.0	26.0	28.0					
		Heating	At high fan speed	m³/min	21.0	23.0	32.0	36.0	42.5					
			At medium fan speed	m³/min	18.0	19.5	27.0	31.5	34.0					
			At low fan speed	m³/min	15.0	16.0	23.0	26.0	28.0					
	Air flow rate - 60Hz	Cooling	At high fan speed	cfm	742	812	1,130	1,271	1,377					
			At medium fan speed	cfm	636	689	953	1,112	1,201					
			At low fan speed	cfm	530	565	812	918	989					
		Heating	At high fan speed	cfm	742	812	1,130	1,271	1,501					
			At medium fan speed	cfm	636	689	953	1,112	1,201					
			At low fan speed	cfm	530	565	812	918	989					
	External static pressure - 50Hz	Factory set	Pa	30	40		50							
High		Pa	150											

2 Specifications

2 - 1 Specifications

Technical specifications				FXSA63A	FXSA80A	FXSA100A	FXSA125A	FXSA140A	
Sound power level	Cooling	At high fan speed		dB(A)	59	61		64	
Sound pressure level	Cooling	At high fan speed		dB(A)	33.0	35.0	36.0	39.0	41.5
		At medium fan speed		dB(A)	30.0	32.0	34.0	36.0	38.0
		At low fan speed		dB(A)	27.0	29.0	31.0	33.0	34.0
	Heating	At high fan speed		dB(A)	35.0	37.0		40.0	42.0
		At medium fan speed		dB(A)	32.0	34.0		37.0	38.5
		At low fan speed		dB(A)	28.0	30.0	31.0	33.0	34.0
Fan motor	Quantity				1				
	Speed	Steps		3					
		Cooling	High	rpm	1,130	1,246	1,226	1,310	1,346
		Heating	High	rpm	1,130	1,246	1,226	1,310	1,346
	Output	Max		W	230		300		350
Refrigerant	Type		R-32						
	GWP		675.0						
Piping connections	Liquid	Type		Flare connection					
		OD		mm	6		10		
	Gas	Type		Flare connection					
		OD		mm	12.70		15.90		
	Piping connections	Drain			VP20 (I.D. 20/O.D. 26), drain height 625 mm				
Heat insulation			Foamed polystyrene / Foamed polyethylene						
Sound absorbing insulation			Butyl Rubber						
Drain-up height				mm	625				
Air filter	Type		Resin net						
Safety devices	Item	01		PC board fuse					
		02		Fan motor overcurrent protector					
Control systems	Infrared remote control			BRC4C65 / BRC4C66					
	Wired remote control			BRC1H52W/S/K					

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

Standard accessories: Clamps;Quantity: 4;

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: 40;

Standard accessories: Sealing pad;Quantity: 5;

Electrical specifications				FXSA15A	FXSA20A	FXSA25A	FXSA32A	FXSA40A	FXSA50A		
Power supply	Name			VE							
	Phase			1~							
	Frequency Hz			50/60							
	Voltage V			220-240/220							
Current - 50Hz	Minimum circuit amps (MCA)			A		0.8		0.9		1.4	
	Maximum fuse amps (MFA)			A		6					
	Full load amps (FLA) Total			A		0.7		0.8		1.3	
Current - 60Hz	Minimum circuit amps (MCA)			A		0.8		0.9		1.4	
	Maximum fuse amps (MFA)			A		6					
	Full load amps (FLA) Total			A		0.7		0.8		1.3	

Electrical specifications			FXSA63A		FXSA80A		FXSA100A		FXSA125A		FXSA140A			
Power supply	Name		VE											
	Phase		1~											
	Frequency		Hz		50/60									
	Voltage		V		220-240/220									
Current - 50Hz	Minimum circuit amps (MCA)		A		1.4		1.7		2.0		2.2		3.0	
	Maximum fuse amps (MFA)		A		6									
	Full load amps (FLA) Total		A		1.3		1.5		1.8		2.0		2.7	
Current - 60Hz	Minimum circuit amps (MCA)		A		1.4		1.7		2.0		2.2		3.0	
	Maximum fuse amps (MFA)		A		6									
	Full load amps (FLA) Total		A		1.3		1.5		1.8		2.0		2.7	

(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

FXSA-A

	Safety devices	15	20	25	32	40	50	63	80	100	125	140
FXSA	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	250V, 3.15A	250V, 3.15A	250V, 3.15A
	Printed circuit board (fan)	250V, 6.3A	250V, 6.3A	250V, 6.3A	250V, 6.3A	250V, 6.3A	250V, 6.3A	250V, 6.3A	250V, 6.3A	250V, 6.3A	250V, 6.3A	250V, 6.3A
	Fan motor thermal protector °C	---	---	---	---	---	---	---	---	---	---	---

3D129449A

4 Options

4 - 1 Options

FXSA-A

Option kit	Product name	Availability				
		FXSA15-32A2VEB	FXSA40-50A2VEB	FXSA63-80A2VEB	FXSA100-125A2VEB	FXSA140A2VEB
Wireless remote control	BRC4C85 ②	✓	✓	✓	✓	✓
WLAN adaptor for smartphones	BRP069CS1 ②	✓	✓	✓	✓	✓
Wired remote control	BRC1H52/82W7/57/K7 ⑤	✓	✓	✓	✓	✓
Intelligent Tablet Controller	DCC601AS1 ②	✓	✓	✓	✓	✓
Intelligent touch controller	DCS601CS1 ② ⑥	✓	✓	✓	✓	✓
Central remote control	DCS302CA51 ② ⑧ ⑩	✓	✓	✓	✓	✓
	DCS302CA61 ② ⑧ ⑨	✓	✓	✓	✓	✓
Unified ON/OFF controller	DCS301BA51 ② ⑦ ⑩	✓	✓	✓	✓	✓
	DCS301BA61 ② ⑦ ⑨	✓	✓	✓	✓	✓
Intelligent Touch Manager	DCM601BS1 ②	✓	✓	✓	✓	✓
External wired temperature sensor	KRC501-68	✓	✓	✓	✓	✓
Wire harness for external wireless temperature sensor	EKEWTSC-1 ③	✓	✓	✓	✓	✓
Adapter with -2 output signals	ERP02AS0 ①	✓	✓	✓	✓	✓
Adapter with -4 output signals	EKR11C14 ①	✓	✓	✓	✓	✓
Adapter for centralised external monitoring/ control via dry contacts and setpoint control via 0-140 °C (for dedicated indoors)	KRP4AA52 ①	✓	✓	✓	✓	✓
Adapter for external central monitoring/control (controls 1 entire system)	KRP2A526 ①	✓	✓	✓	✓	✓
Adapter for keypad and/or window contact connection	BRP7AS1 ① ②	✓	✓	✓	✓	✓
PCB for multi-tenant indoor units	DTA114A61-9 ① ④	✓	✓	✓	✓	✓
External adaptor for outdoor unit (installation on indoor unit)	DTA104AS2 ① ⑩	✓	✓	✓	✓	✓
	DTA104A62 ① ⑨	✓	✓	✓	✓	✓
Installation box for adaptor PCB	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	ERP01AS0 ①	✓	✓	✓	✓	✓
	KDAP25A36A	✓	x	x	x	x
Air discharge adaptor for round ducts	KDAP25A56A	x	✓	x	x	x
	KDAP25A71A	x	x	✓	x	x
	KDAP25A140A	x	x	x	✓	x

Notes

- ① Requires installation box for adaptor PCB -KRP18C101.
- ② Only possible in combination with remote control -BRC1H52/82-.
- ③ -EKEWTSC-1- is a wire harness for the connection of option -K.RSS-.
- ④ -K.RSS- is not an official option. Sales for this option are an SBU responsibility.
- ⑤ This option cannot be combined with -RXYSAA/5/6A7V1B- or -RXYSAA/5/6A7V1B-.
- ⑥ Mandatory option
- ⑦ Requires installation box -KJB411A-.
- ⑧ Requires installation box -KJB212AA-.
- ⑨ Requires installation box -KJB311AA-.
- ⑩ Language pack -English-
- ⑪ Language pack -English, German, French, Dutch, Spanish, Italian, Greek, Portuguese-

3D129478F

5 Capacity tables

5 - 1 Cooling Capacity Tables

FXSA-A

Unit size		Fan speed		Indoor air temperature											
				14,0 [°C WB]		16,0 [°C WB]		18,0 [°C WB]		19,0 [°C WB]		20,0 [°C WB]		22,0 [°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]	
				TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
15	H			1,0	0,8	1,2	1,0	1,5	1,2	1,7	1,2	1,9	1,3	2,2	1,4
	M			Correction factor -0.88 × H-											
	L			Correction factor -0.82 × H-											
20	H			1,2	1,1	1,6	1,3	2,0	1,5	2,2	1,6	2,4	1,6	2,8	1,8
	M			Correction factor -0.86 × H-											
	L			Correction factor -0.77 × H-											
25	H			1,6	1,4	2,1	1,6	2,6	1,9	2,8	2,0	3,1	2,1	3,6	2,3
	M			Correction factor -0.89 × H-											
	L			Correction factor -0.79 × H-											
32	H			2,1	1,8	2,7	2,1	3,3	2,5	3,6	2,6	3,9	2,7	4,6	2,8
	M			Correction factor -0.86 × H-											
	L			Correction factor -0.75 × H-											
40	H			2,5	2,2	3,3	2,7	4,1	3,1	4,5	3,3	4,9	3,4	5,8	3,7
	M			Correction factor -0.87 × H-											
	L			Correction factor -0.76 × H-											
50	H			3,2	2,8	4,2	3,4	5,1	3,9	5,6	4,0	6,1	4,2	7,1	4,4
	M			Correction factor -0.84 × H-											
	L			Correction factor -0.71 × H-											
63	H			3,9	3,4	5,2	4,2	6,4	4,9	7,1	5,1	7,8	5,3	9,2	5,8
	M			Correction factor -0.82 × H-											
	L			Correction factor -0.66 × H-											
80	H			5,1	4,3	6,6	5,2	8,2	6,1	9,0	6,4	9,8	6,7	11,6	7,1
	M			Correction factor -0.83 × H-											
	L			Correction factor -0.60 × H-											
100	H			6,4	5,5	8,3	6,7	10,2	7,8	11,2	8,1	12,2	8,4	14,4	9,0
	M			Correction factor -0.78 × H-											
	L			Correction factor -0.52 × H-											
125	H			8,7	6,9	10,8	8,2	12,9	9,4	14,0	9,7	15,1	10,0	17,5	10,5
	M			Correction factor -0.81 × H-											
	L			Correction factor -0.64 × H-											
140	H			9,3	7,9	11,9	9,5	14,6	11,1	16,0	11,5	17,4	11,9	20,4	12,6
	M			Correction factor -0.82 × H-											
	L			Correction factor -0.63 × H-											

Notes

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

3D129414

5 Capacity tables

5 - 2 Heating Capacity Tables

FXSA-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
15	H	2,2	2,1	1,9	1,8	1,7	1,6
	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	7,3	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-					
80	H	11,7	10,8	10,0	9,6	9,2	8,4
	M	Correction factor -0.83 × H-					
	L	Correction factor -0.59 × H-					
100	H	14,6	13,5	12,5	12,0	11,5	10,5
	M	Correction factor -0.74 × H-					
	L	Correction factor -0.48 × H-					
125	H	18,7	17,3	16,0	15,3	14,7	13,4
	M	Correction factor -0.80 × H-					
	L	Correction factor -0.61 × H-					
140	H	21,0	19,5	18,0	17,3	16,5	15,1
	M	Correction factor -0.78 × H-					
	L	Correction factor -0.58 × H-					

Notes

1) TC: Total capacity [kW]

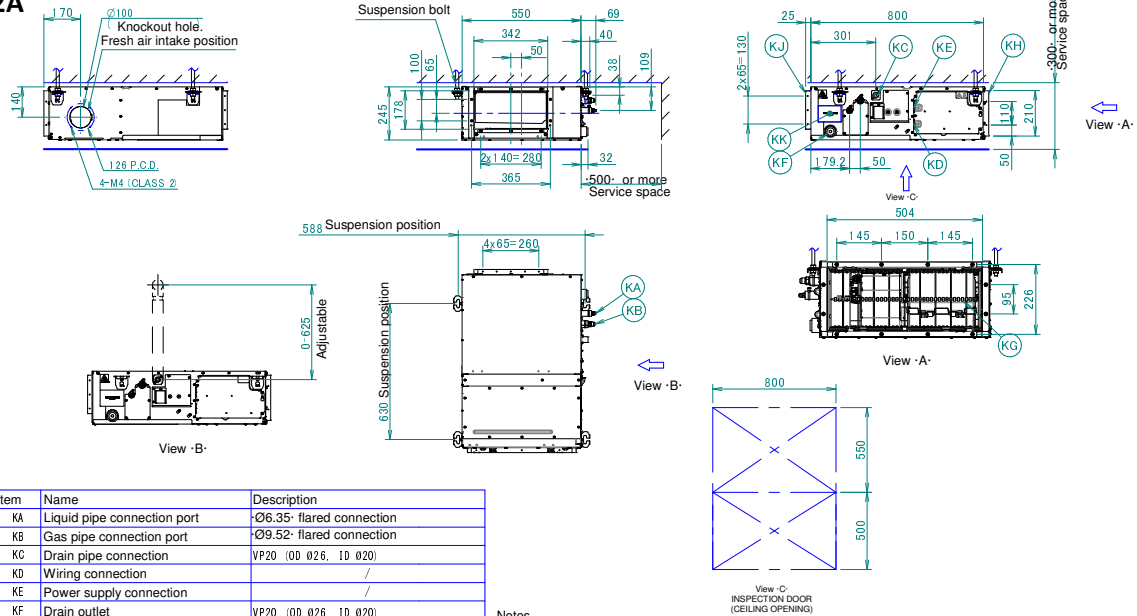
2) Outdoor temperature -7°C DB / -6°C WB

3D129415

6 Dimensional drawings

6 - 1 Dimensional Drawings

FXSA15A
FXSA20A
FXSA25A
FXSA32A

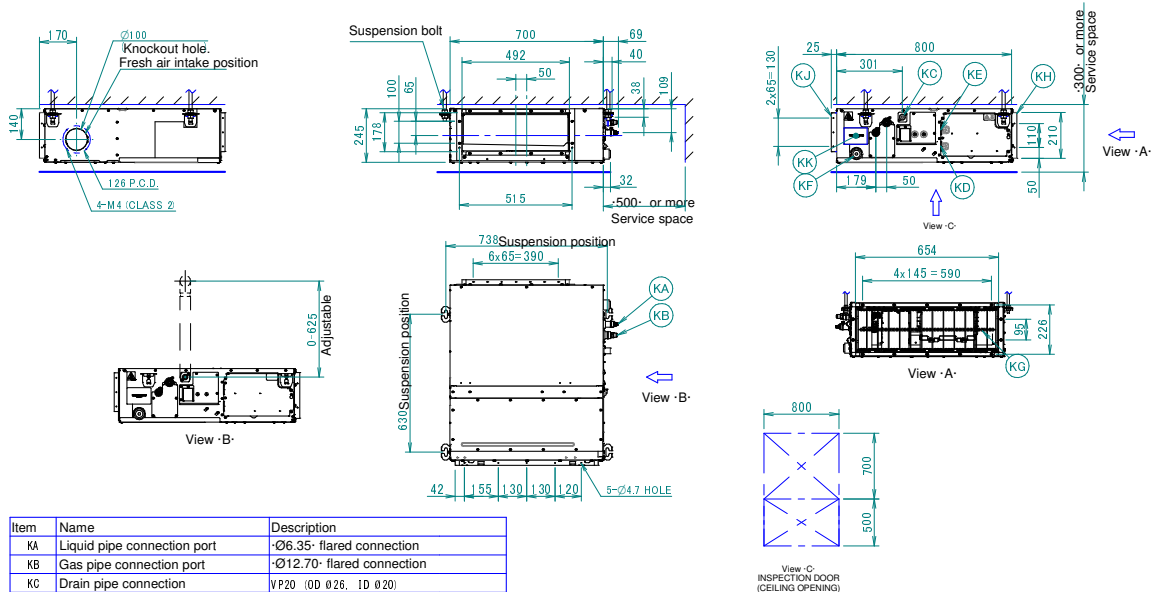


Item	Name	Description
KA	Liquid pipe connection port	Ø6.35" flared connection
KB	Gas pipe connection port	Ø9.52" flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

- Notes
- When installing optional accessories, refer to their respective documentation.
 - The ceiling depth varies according to the documentation of the specific system.
 - 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.

3D128686A

FXSA40A
FXSA50A



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	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

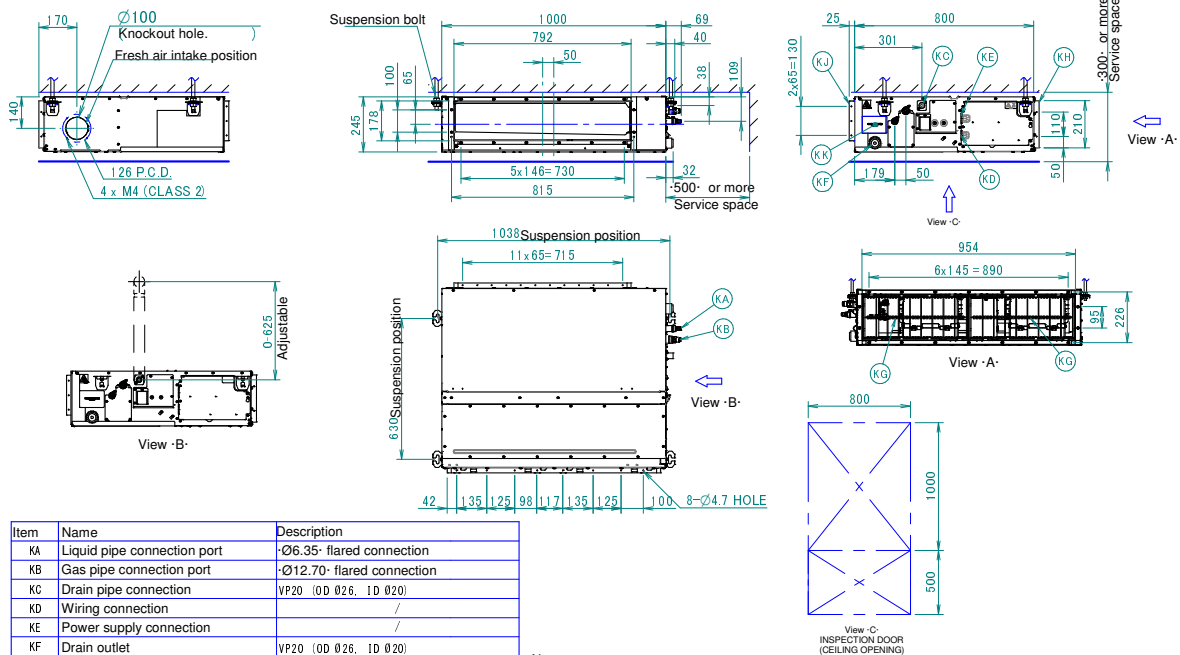
- Notes
- When installing optional accessories, refer to their respective documentation.
 - The ceiling depth varies according to the documentation of the specific system.
 - In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation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

3D128715A

6 Dimensional drawings

6 - 1 Dimensional Drawings

FXSA63A FXSA80A

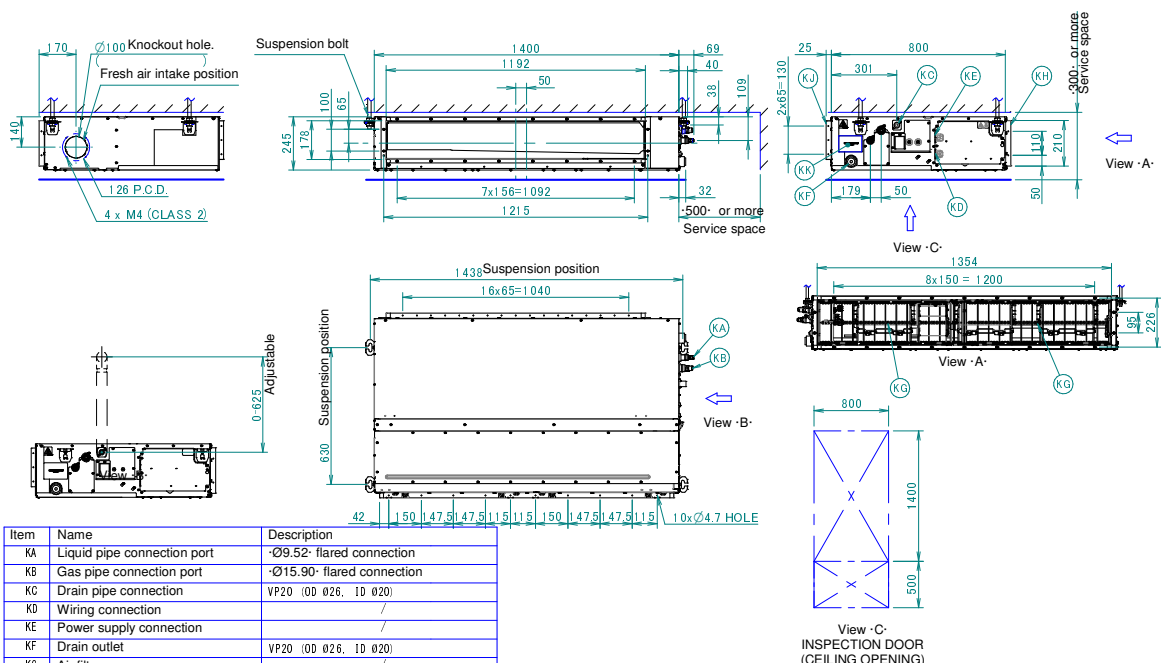


Item	Name	Description
KA	Liquid pipe connection port	Ø6.35" flared connection
KB	Gas pipe connection port	Ø12.70" flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
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. For more information, refer to the installation manual.
 4. In case of rear suction, mount the chamber cover to the bottom side of the unit. For more information, refer to the installation manual.

3D128716A

FXSA100A FXSA125A



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	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

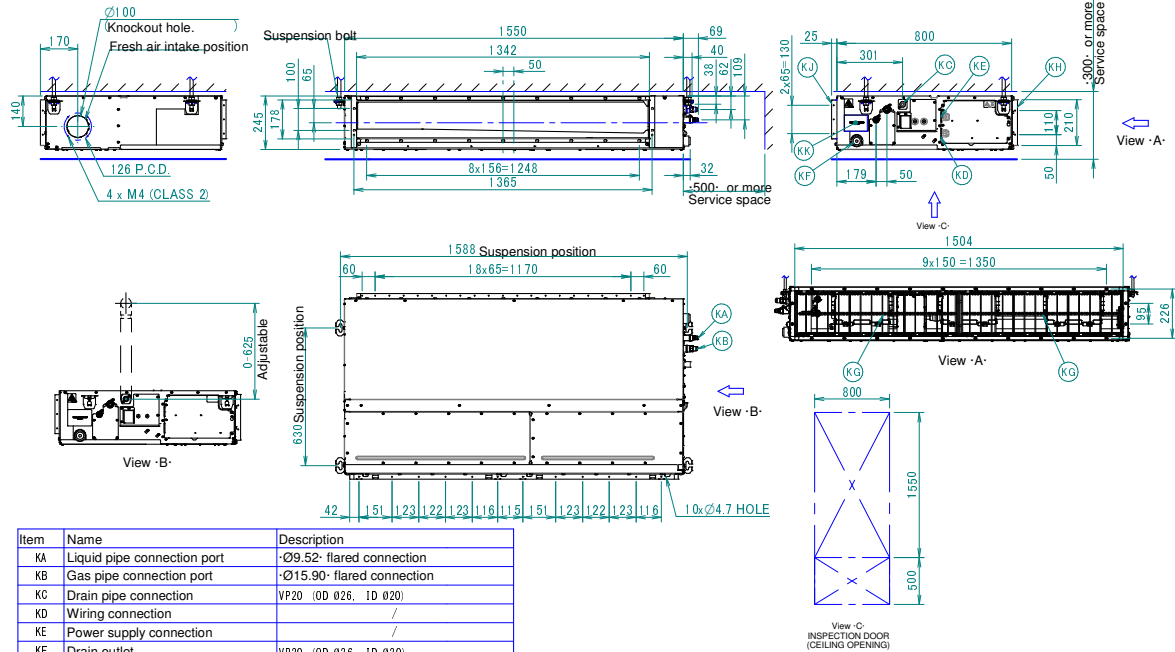
- Notes
1. When installing optional accessories, refer to their respective documentation.
 2. The ceiling depth varies according to the documentation of the specific system.
 3. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation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

3D128719A

6 Dimensional drawings

6 - 1 Dimensional Drawings

FXSA140A



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	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes

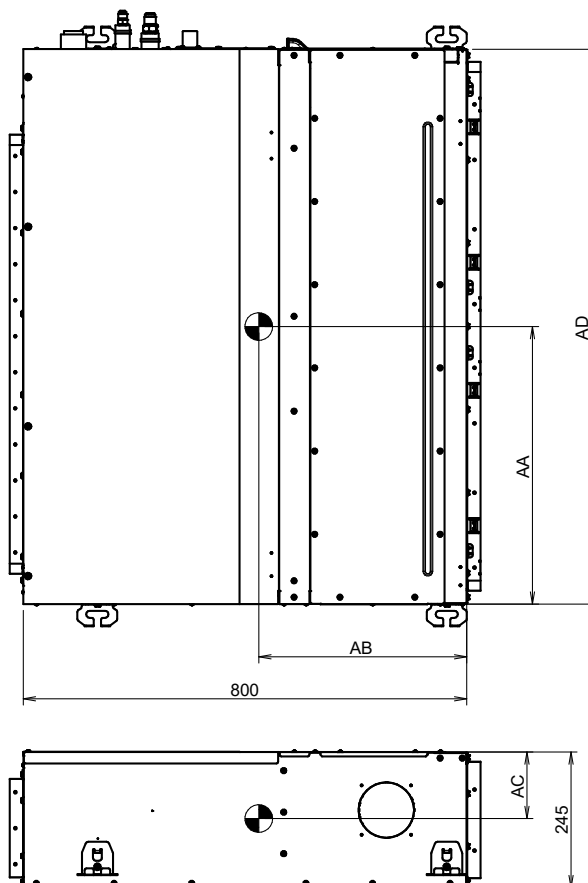
- When installing optional accessories, refer to their respective documentation.
- The ceiling depth varies according to the documentation of the specific system.
- In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.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

3D128720A

7 Centre of gravity

7 - 1 Centre of Gravity

FXSA-A



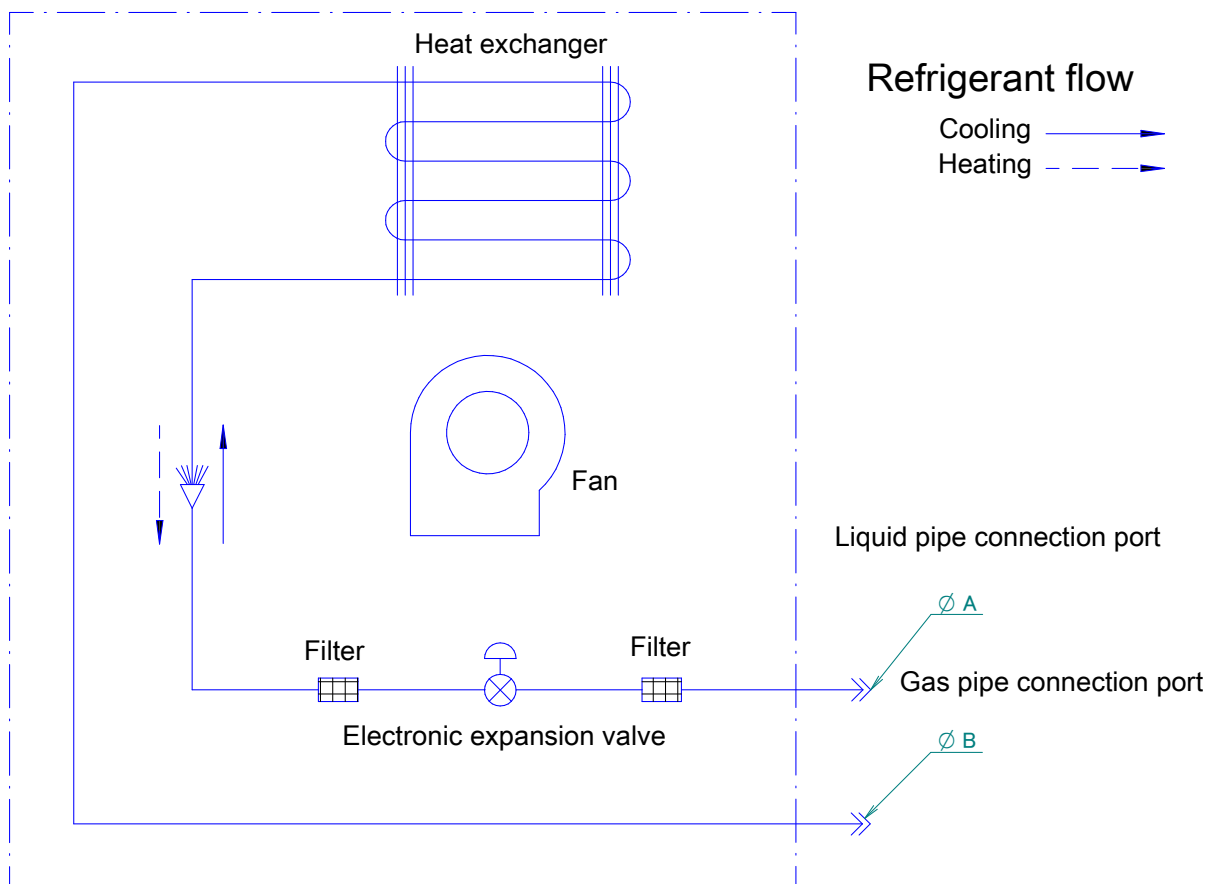
Unit size	AA	AB	AC	AB
15/20/25/32	305	365	145	550
40/50	410	375	125	700
63/80	525	380	125	100
100/125	760	390	115	1400
140	870	385	120	1550

4D096407B

8 Piping diagrams

8 - 1 Piping Diagrams

FXSA-A

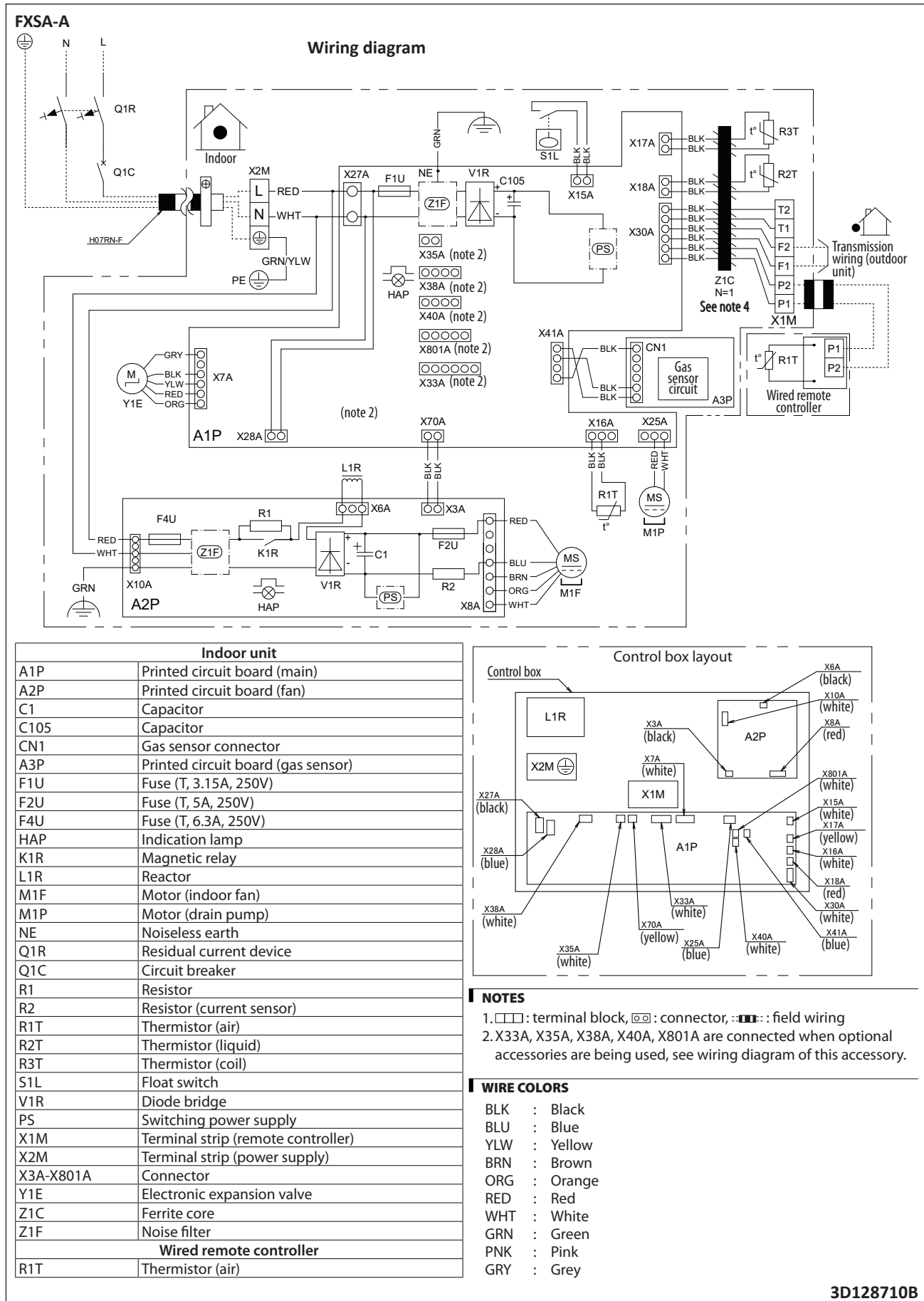


Model	A	B
FXSA15A2VEB	6.35	9.52
FXSA20A2VEB		
FXSA25A2VEB		
FXSA32A2VEB		
FXSA40A2VEB		
FXSA50A2VEB		
FXSA63A2VEB		
FXSA80A2VEB		
FXSA100A2VEB	9.52	15.9
FXSA125A2VEB		
FXSA140A2VEB		

4D126216

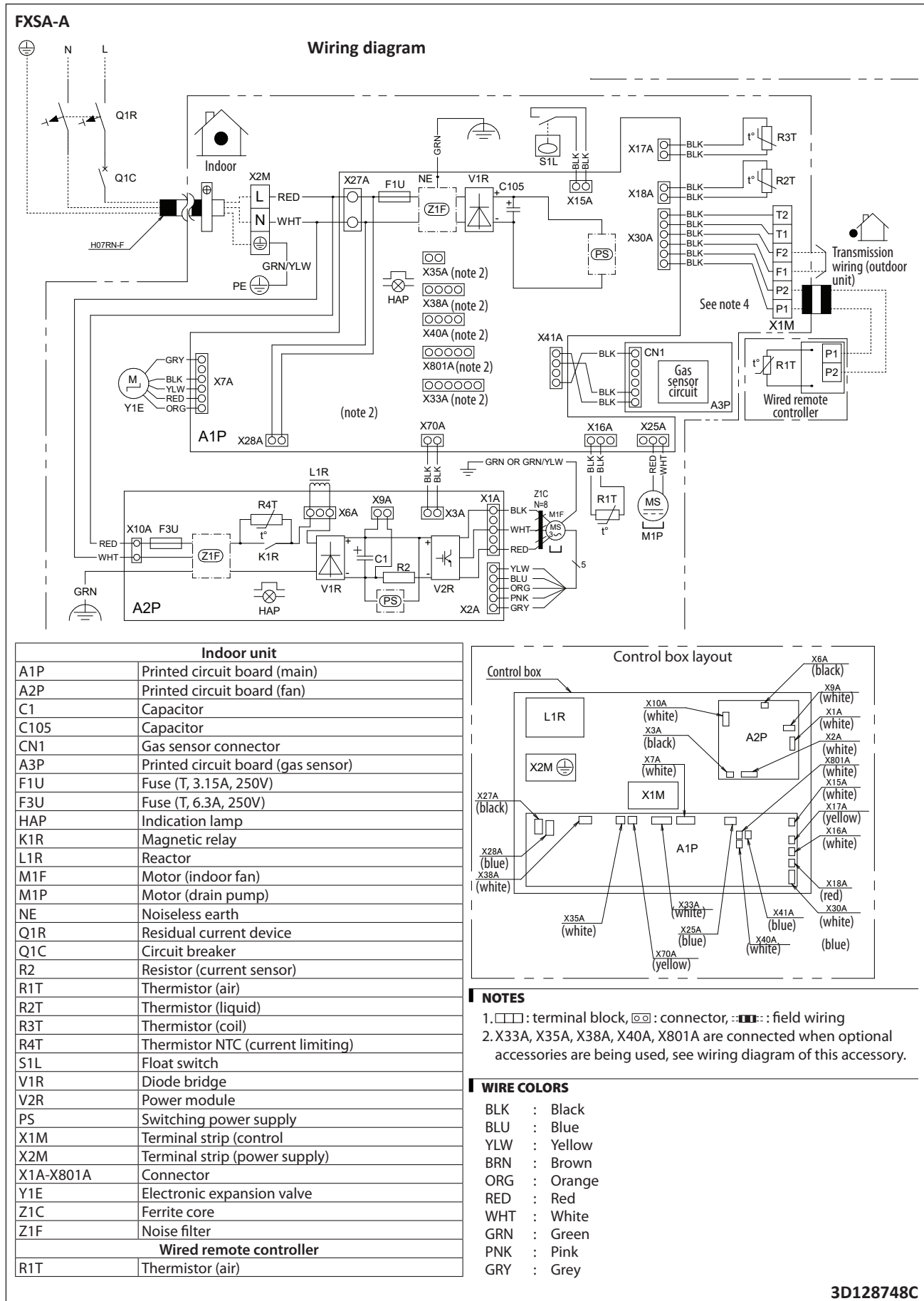
9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase



9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

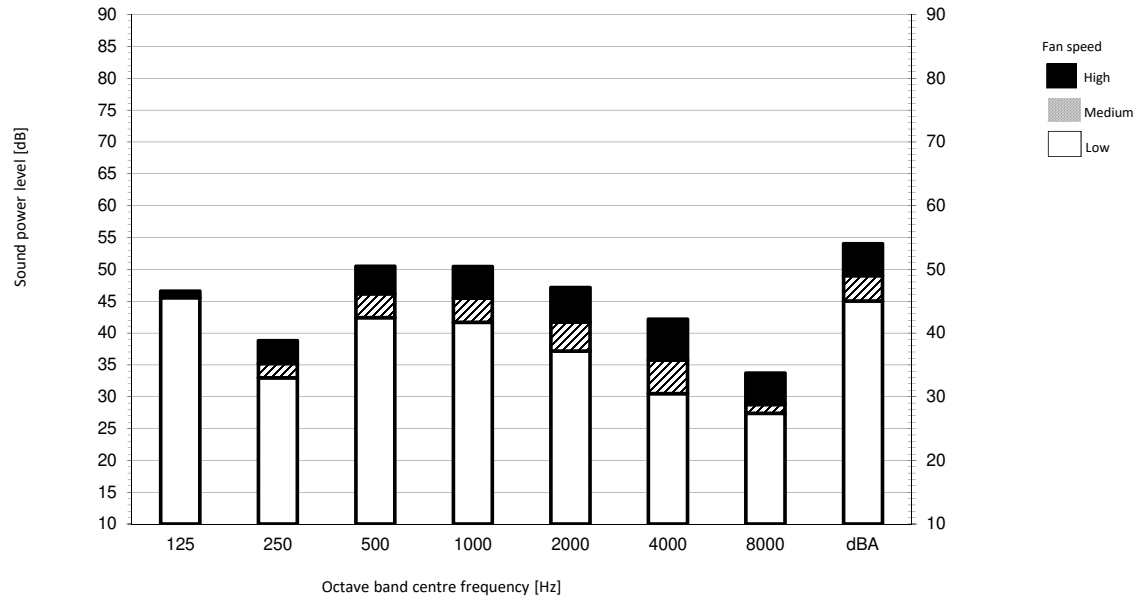


10 Sound data

10 - 1 Sound Power Spectrum - Cooling

FXSA15A

Cooling mode



Notes

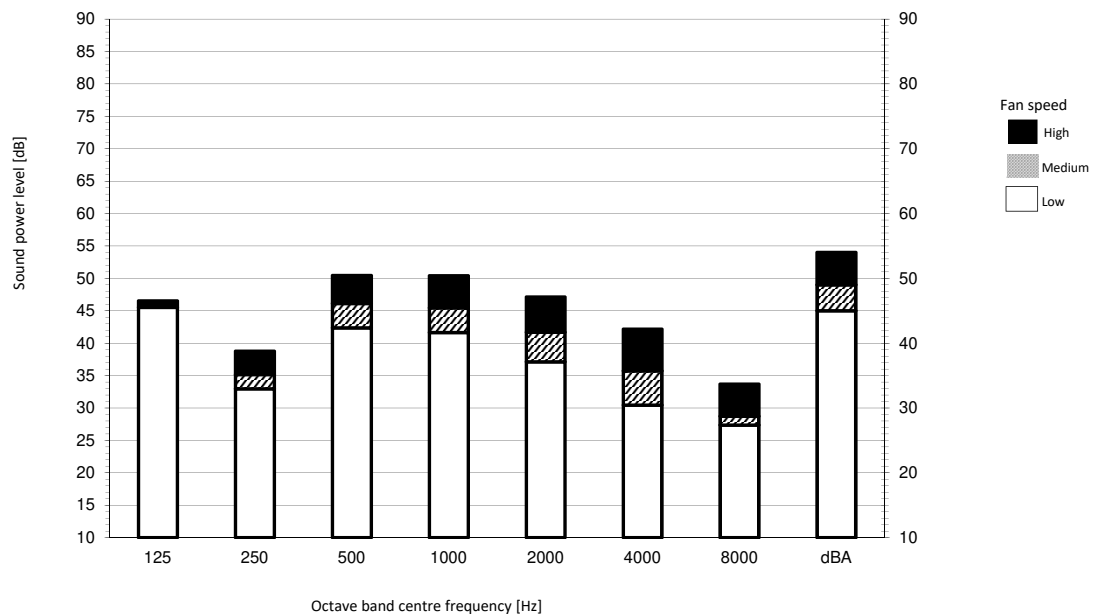
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity $0\text{ dB} = 10^{-12}\text{ W/m}^2$.
3. Measured according to ISO 3744

3D095590C

FXSA20A

FXSA25A

Cooling mode



Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity $0\text{ dB} = 10^{-12}\text{ W/m}^2$.
3. Measured according to ISO 3744

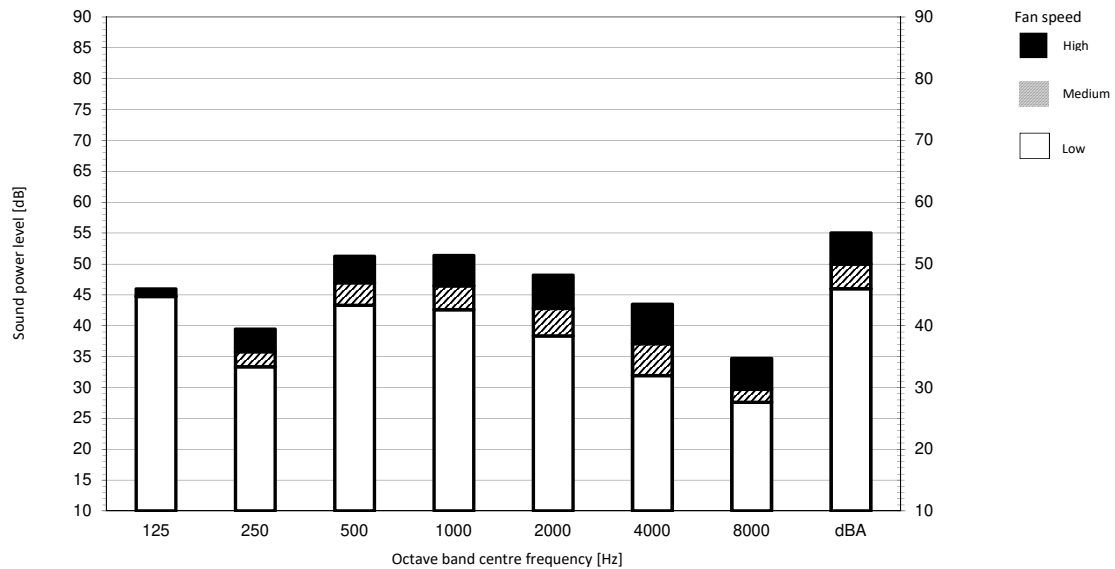
3D095591C

10 Sound data

10 - 1 Sound Power Spectrum - Cooling

FXSA32A

Cooling mode



Notes

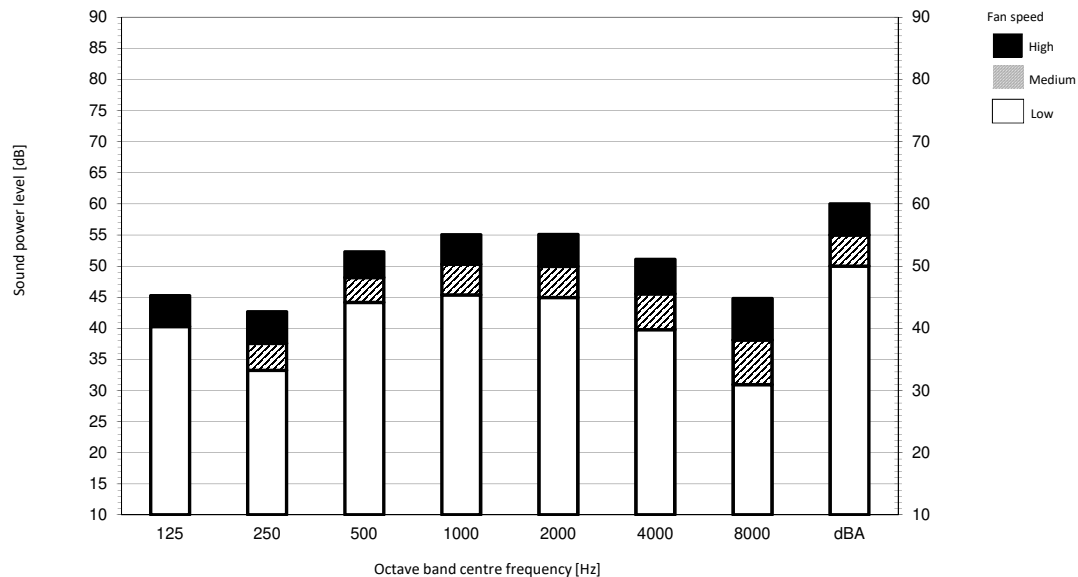
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity $0\text{dB} = -10\text{E-}6\mu\text{W/m}^2$.
3. Measured according to ISO 3744

3D095592C

FXSA40A

FXSA50A

Cooling mode



Notes

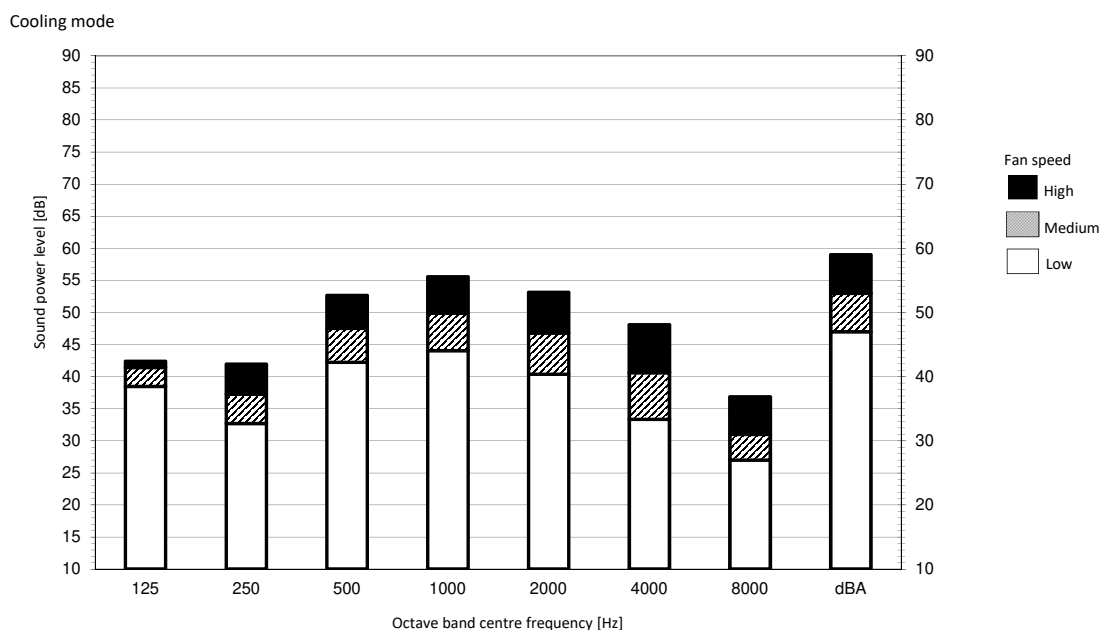
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity $0\text{dB} = -10\text{E-}6\mu\text{W/m}^2$.
3. Measured according to ISO 3744

3D095579C

10 Sound data

10 - 1 Sound Power Spectrum - Cooling

FXSA63A

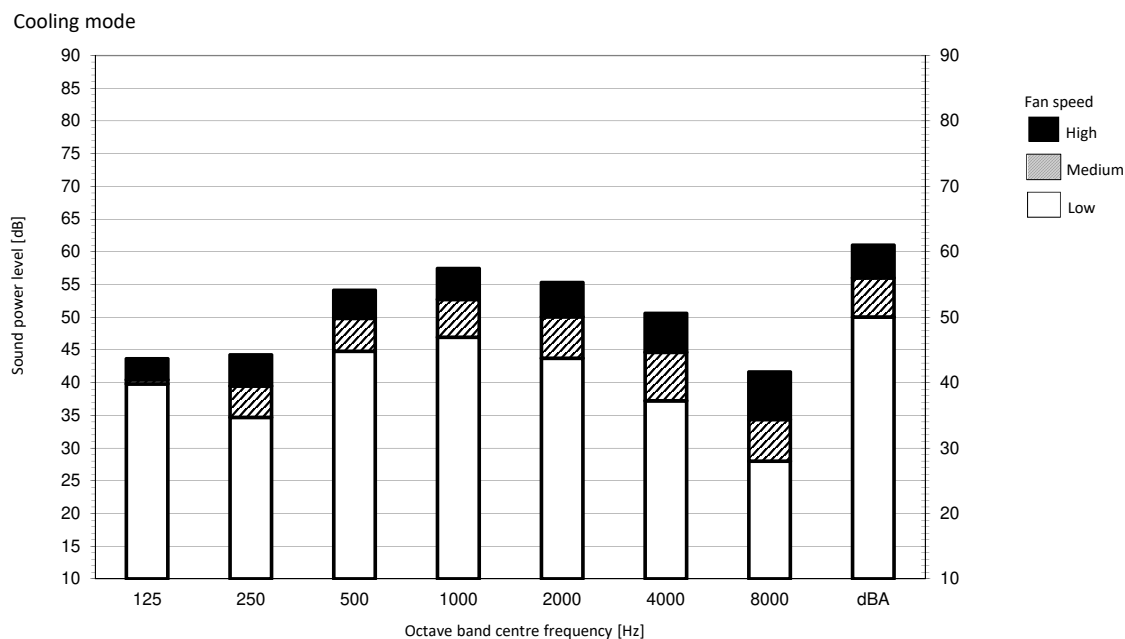


Notes

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

3D095593C

FXSA80A



Notes

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

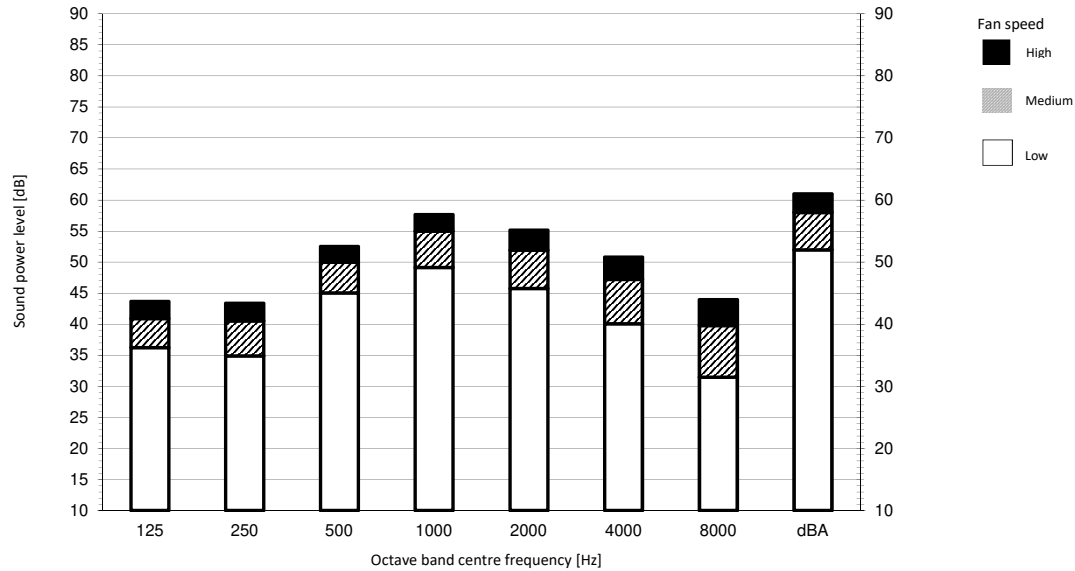
3D095594C

10 Sound data

10 - 1 Sound Power Spectrum - Cooling

FXSA100A

Cooling mode



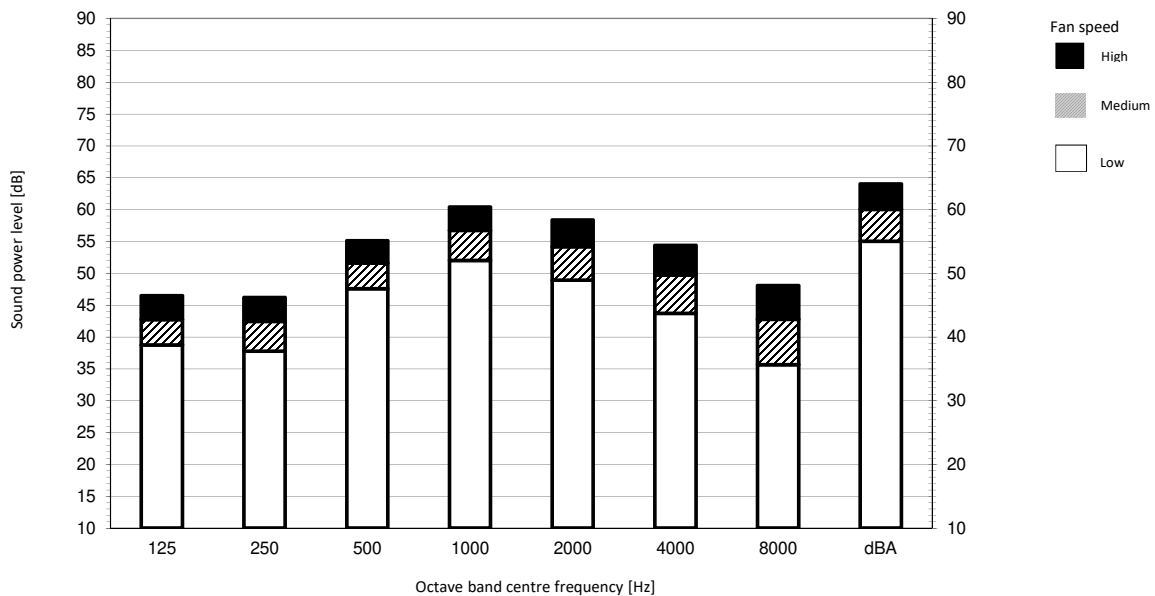
Notes

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

3D095596C

FXSA125A

Cooling mode



Notes

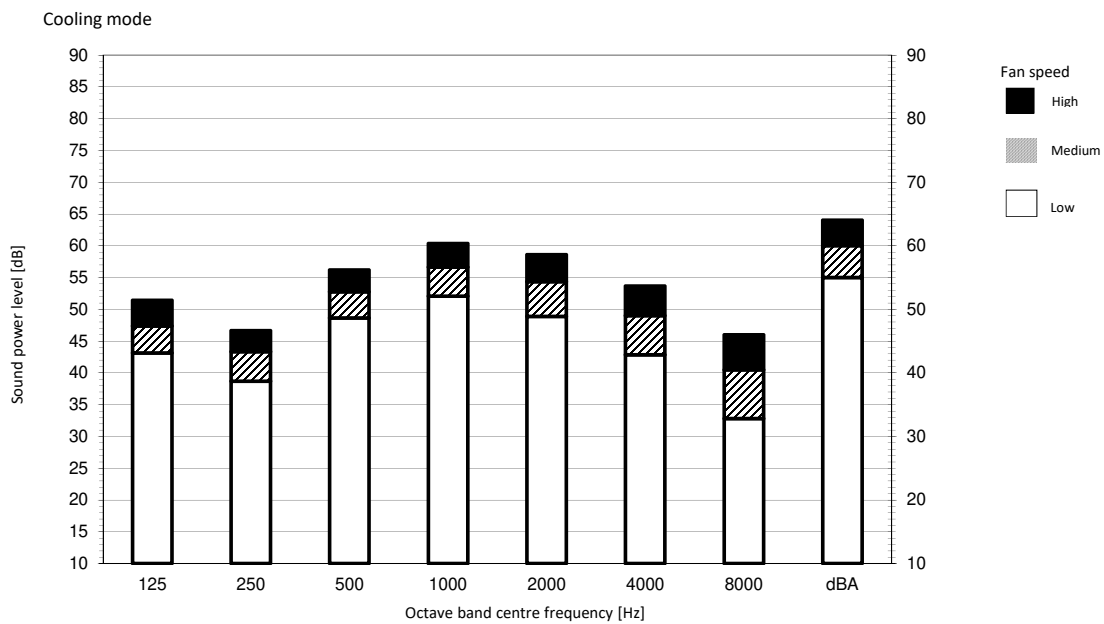
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = $-10E-6\mu W/m^2$.
3. Measured according to ISO 3744

3D095597C

10 Sound data

10 - 1 Sound Power Spectrum - Cooling

FXSA140A



Notes

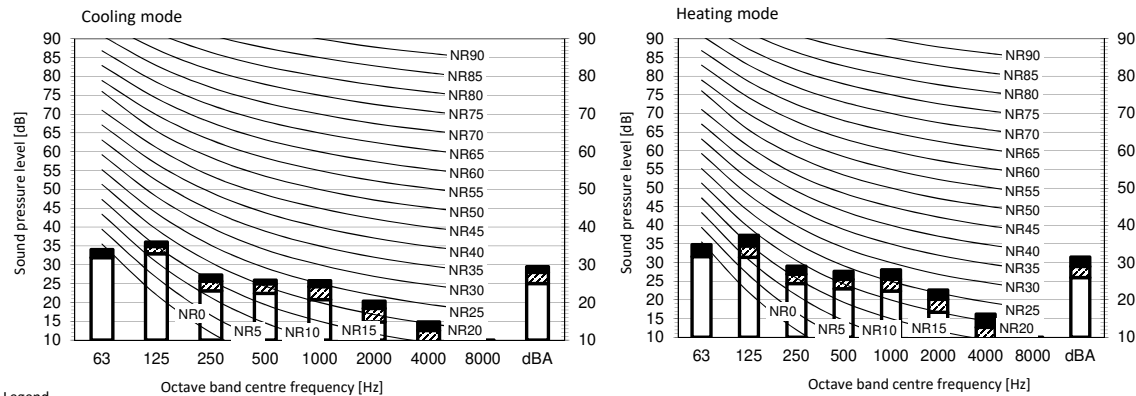
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity $0\text{dB} = 10^{-6}\text{W/m}^2$.
3. Measured according to ISO 3744

3D100610B

10 Sound data

10 - 2 Sound Pressure Spectrum

FXSA15A



Legend

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

- B High
- C Medium
- D Low

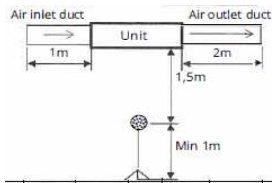
Cooling Total dB

A	B	C	D
dBA	29,5	28,0	25,0

Heating Total dB

A	B	C	D
dBA	31,5	29,0	26,0

Location of microphone



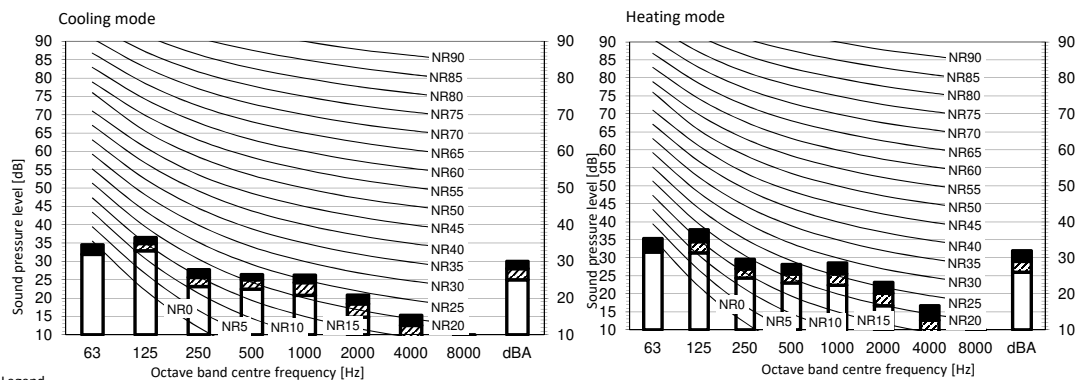
Notes

- 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

3D095568B

FXSA20A

FXSA25A



Legend

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

- B High
- C Medium
- D Low

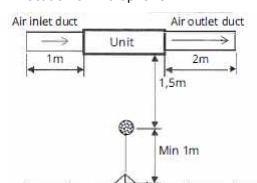
Cooling Total dB

A	B	C	D
dBA	30,0	28,0	25,0

Heating Total dB

A	B	C	D
dBA	32,0	29,0	26,0

Location of microphone



Notes

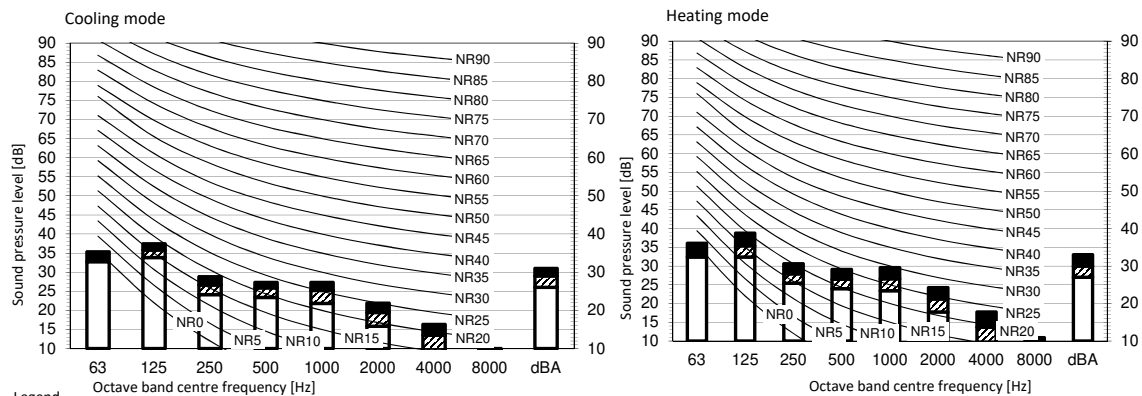
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

3D095569B

10 Sound data

10 - 2 Sound Pressure Spectrum

FXSA32A



Legend

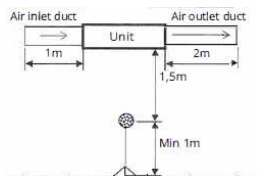
A dBA = A-weighted sound pressure level (A scale according to IEC).

B High
C Medium
D Low

Cooling	Total dB			
A	B	C	D	
dBA	31,0	29,0	26,0	

Heating	Total dB			
A	B	C	D	
dBA	33,0	30,0	27,0	

Location of microphone



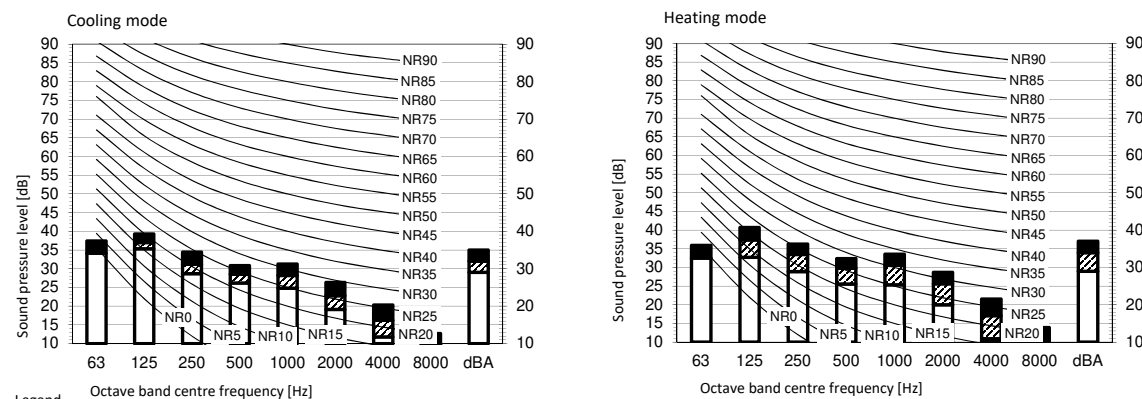
Notes

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

3D095570B

FXSA40A

FXSA50A



Legend

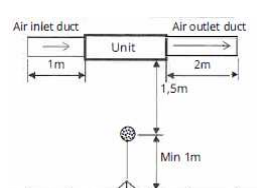
A dBA = A-weighted sound pressure level (A scale according to IEC).

B High
C Medium
D Low

Cooling	Total dB			
A	B	C	D	
dBA	35,0	32,0	29,0	

Heating	Total dB			
A	B	C	D	
dBA	37,0	34,0	29,0	

Location of microphone



Notes

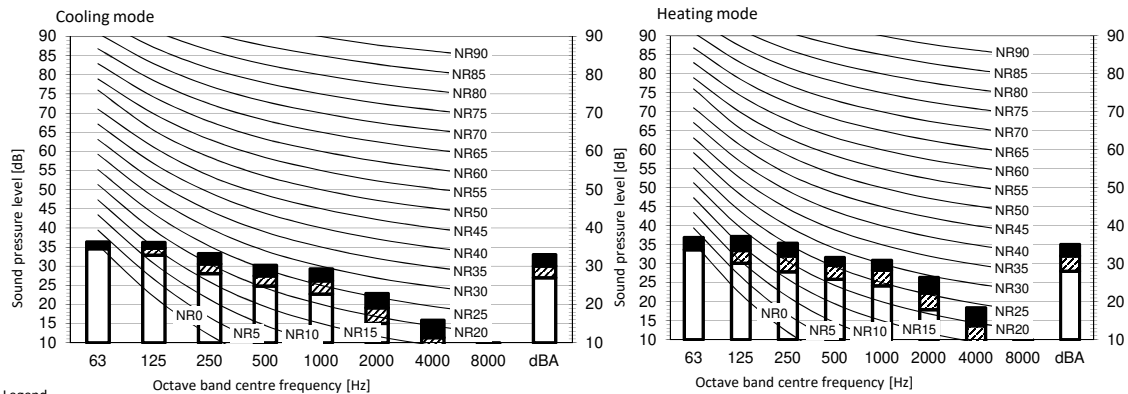
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D095575B

10 Sound data

10 - 2 Sound Pressure Spectrum

FXSA63A

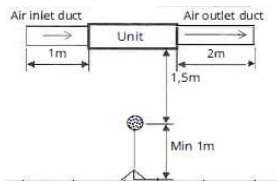


Legend

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

B High
C Medium
D Low

Location of microphone



Cooling	Total dB			
A	B	C	D	
dBA	33,0	30,0	27,0	

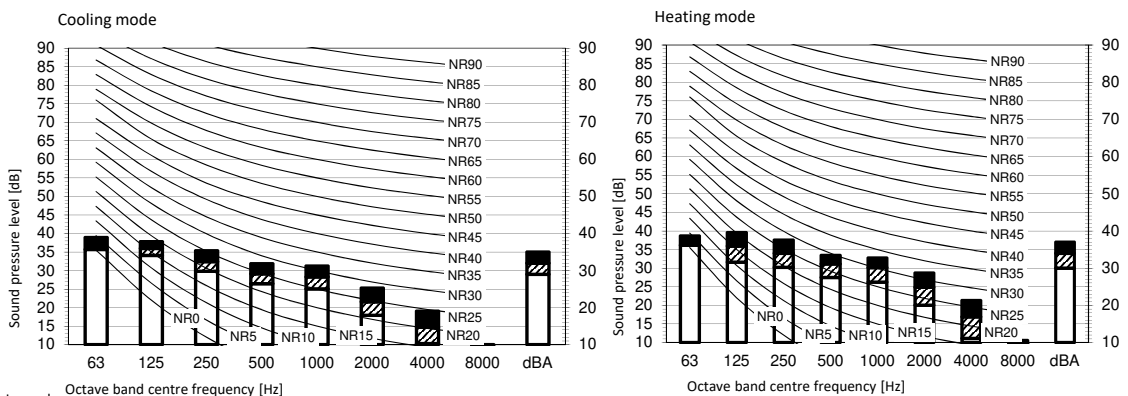
Heating	Total dB			
A	B	C	D	
dBA	35,0	32,0	28,0	

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

3D095571B

FXSA80A

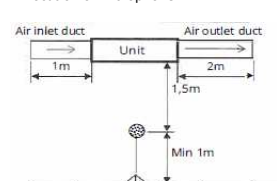


Legend

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

B High
C Medium
D Low

Location of microphone



Cooling	Total dB			
A	B	C	D	
dBA	35,0	32,0	29,0	

Heating	Total dB			
A	B	C	D	
dBA	37,0	34,0	30,0	

Notes

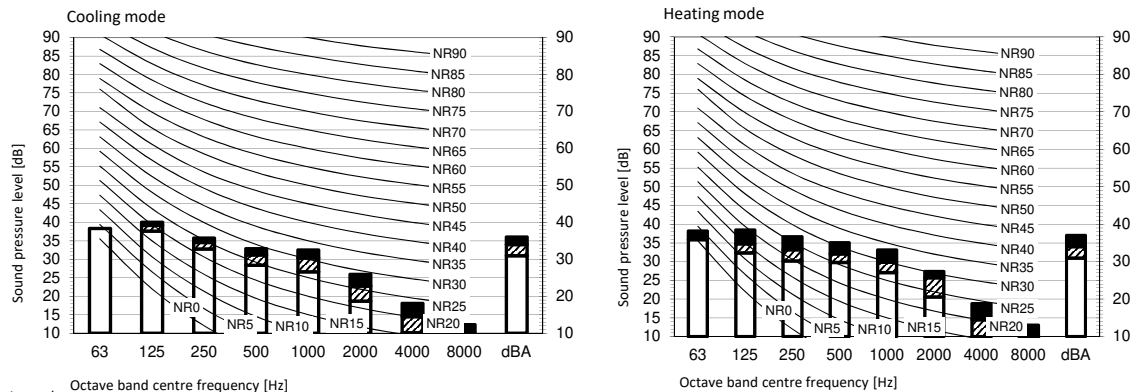
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D095572B

10 Sound data

10 - 2 Sound Pressure Spectrum

FXSA100A



Legend

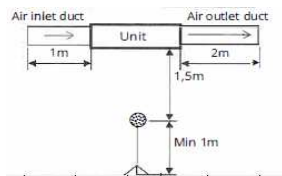
A dBA = A-weighted sound pressure level (A scale according to IEC).

B High
C Medium
D Low

Cooling	Total dB			
A	B	C	D	
dBA	36,0	34,0	31,0	

Heating	Total dB			
A	B	C	D	
dBA	37,0	34,0	31,0	

Location of microphone

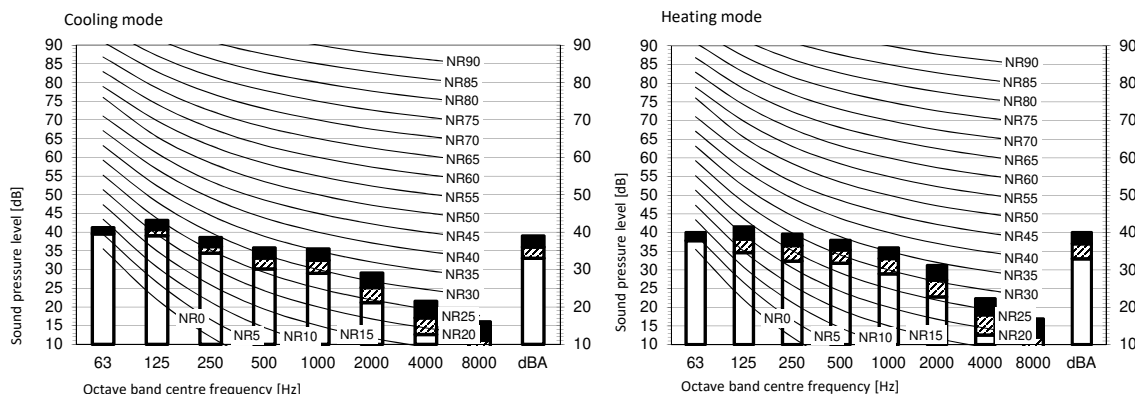


Notes

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

3D095573B

FXSA125A



Legend

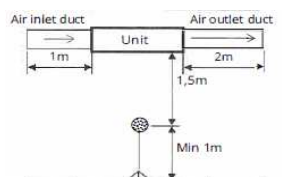
A dBA = A-weighted sound pressure level (A scale according to IEC).

B High
C Medium
D Low

Cooling	Total dB			
A	B	C	D	
dBA	39,0	36,0	33,0	

Heating	Total dB			
A	B	C	D	
dBA	40,0	37,0	33,0	

Location of microphone



Notes

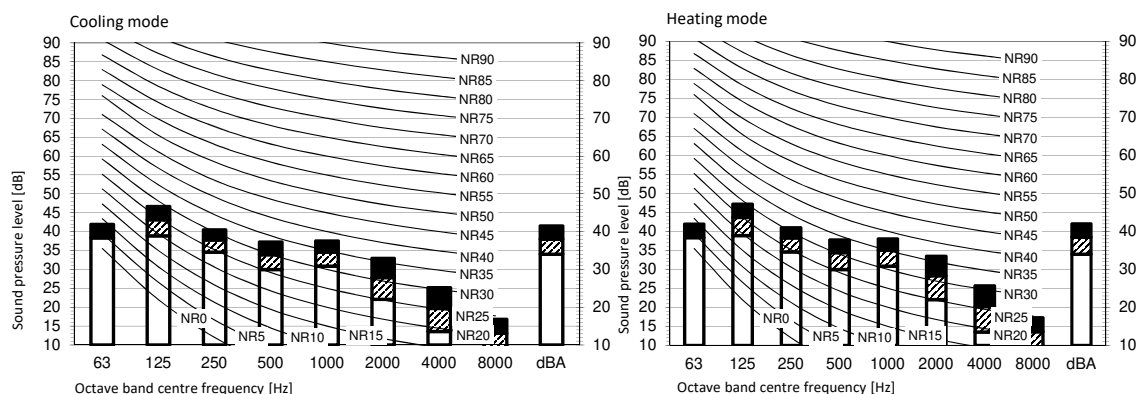
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D095574B

10 Sound data

10 - 2 Sound Pressure Spectrum

FXSA140A



Legend

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

B High

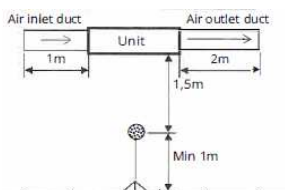
C Medium

D Low

Cooling	Total dB			
A	B	C	D	
dBA	41,5	38,0	34,0	

Heating	Total dB			
A	B	C	D	
dBA	42,0	38,5	34,0	

Location of microphone



Notes

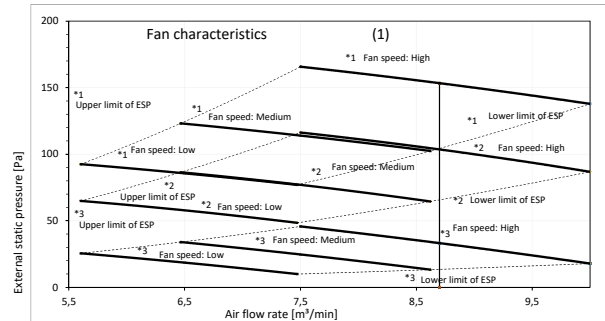
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D096622B

11 Fan characteristics

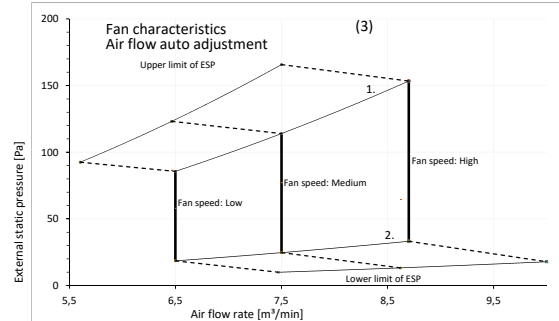
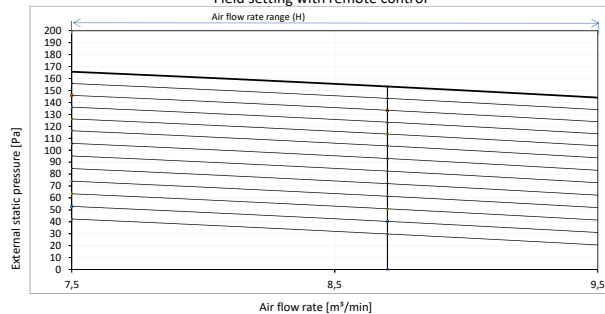
11 - 1 Fan Characteristics

FXSA15A



Mark	ESP (Pa)
*1	Maximum 150
*2	100
*3	Standard 50

Fan characteristics
Field setting with remote control (2)



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

Notes

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

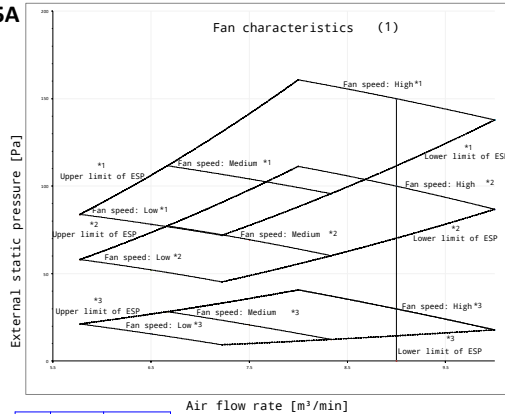
3D096999B

11 Fan characteristics

11 - 1 Fan Characteristics

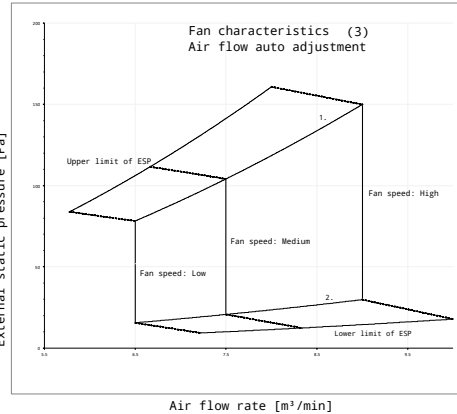
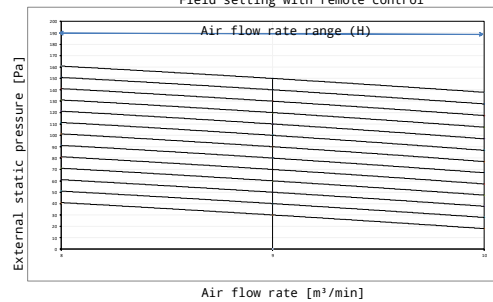
11

FXSA20A
FXSA25A



Mark	ESP [Pa]
*1 Maximum	150
*2 -	100
*3 Standard	30

Fan characteristics (2)
Field setting with remote control



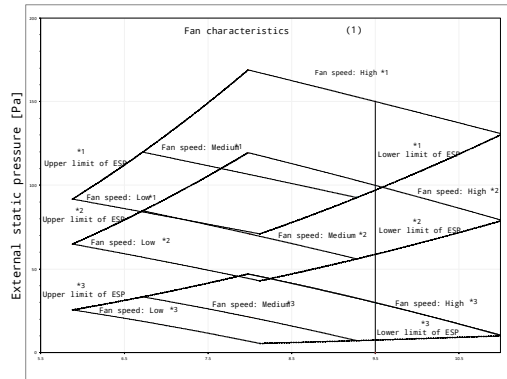
- 1.Upper limit of ESP by air flow auto adjustment
- 2.Lower limit of ESP by air flow auto adjustment

Notes

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

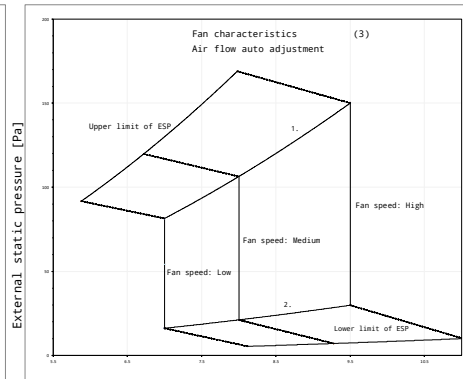
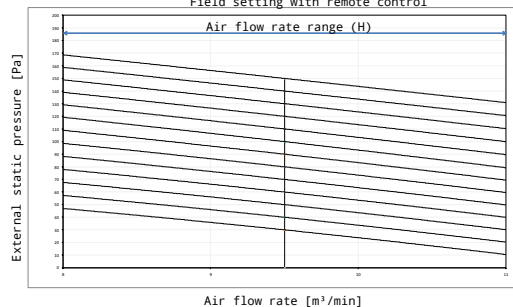
3D095680B

FXSA32A



Mark	ESP [Pa]
*1 Maximum	150
*2 -	100
*3 Standard	30

Fan characteristics (2)
Field setting with remote control



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

Notes

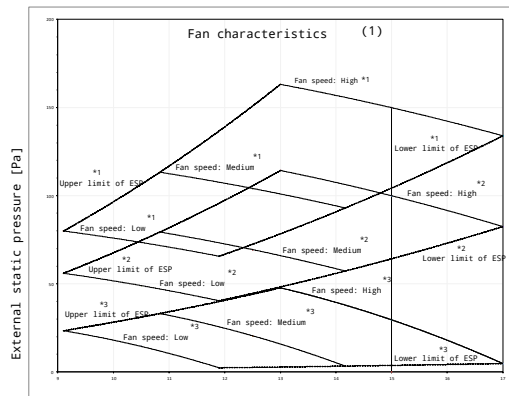
- 1.The fan characteristics shown are in "fan only" mode.
- 2.ESP: External Static Pressure

3D095681B

11 Fan characteristics

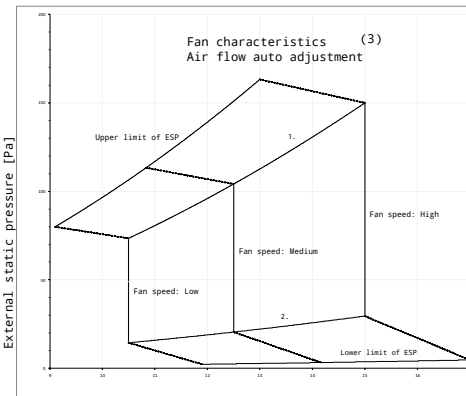
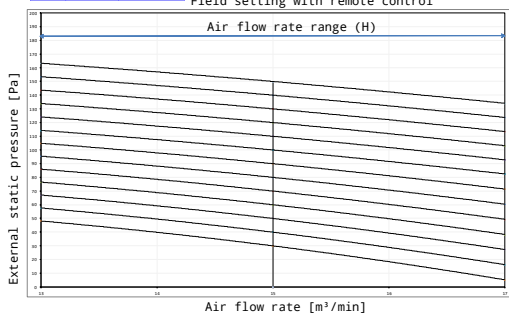
11 - 1 Fan Characteristics

FXSA40A



Mark	ESP [Pa]	Air flow rate [m³/min]
*1	Maximum	150
*2	-	100
*3	Standard	30

Fan characteristics (2)
Field setting with remote control



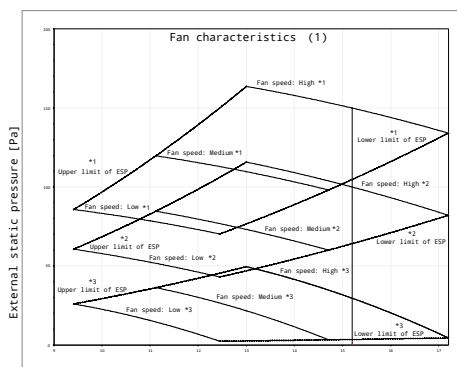
- 1.Upper limit of ESP by air flow auto adjustment
- 2.Lower limit of ESP by air flow auto adjustment

Notes

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

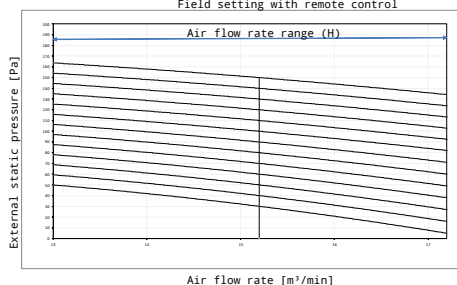
3D095682B

FXSA50A

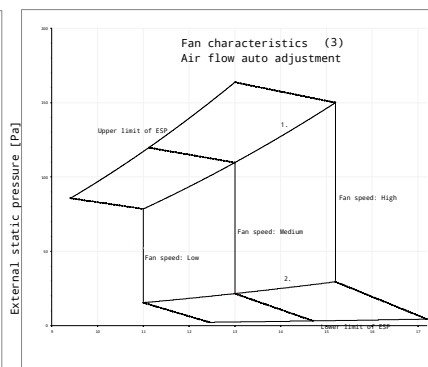


Air flow rate [m³/min]

Fan characteristics (2)
Field setting with remote control



Air flow rate [m³/min]



Air flow rate [m³/min]

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

Mark	ESP [Pa]
*1	Maximum
*2	-
*3	Standard

Notes

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

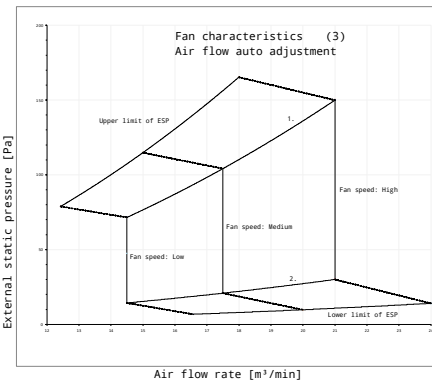
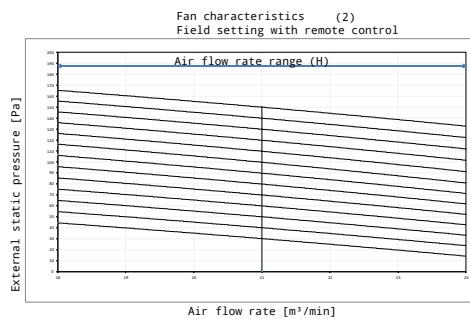
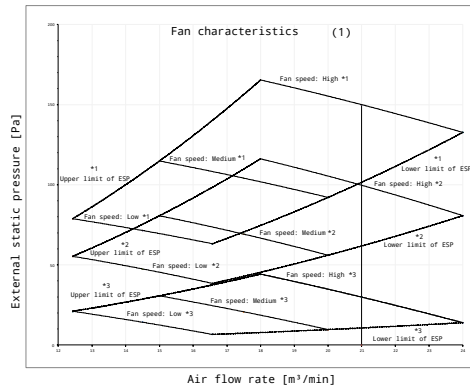
3D095688B

11 Fan characteristics

11 - 1 Fan Characteristics

11

FXSA63A



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

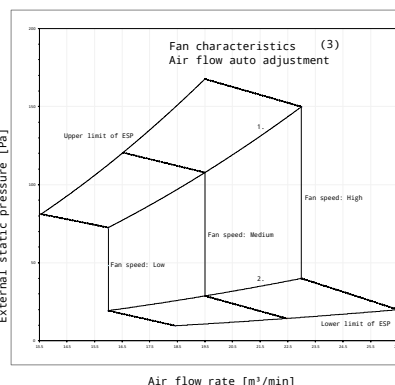
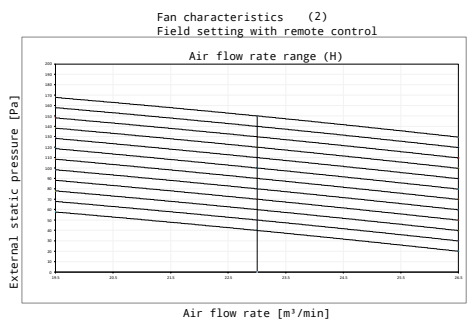
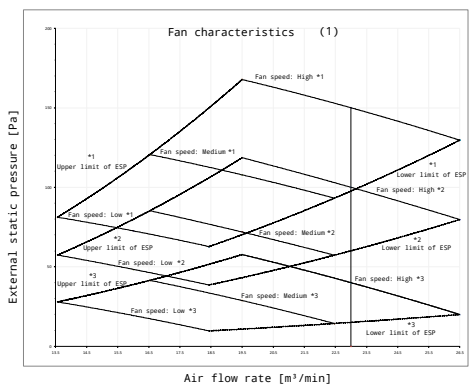
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30

Notes

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

3D095690B

FXSA80A



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

Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	40

Notes

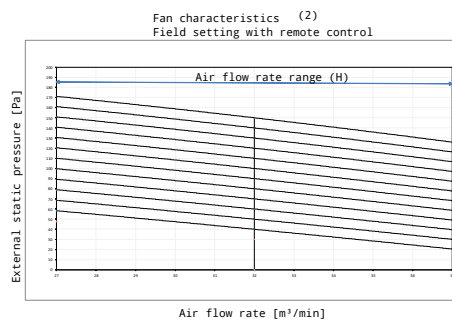
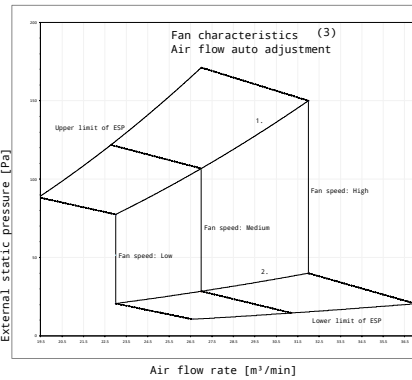
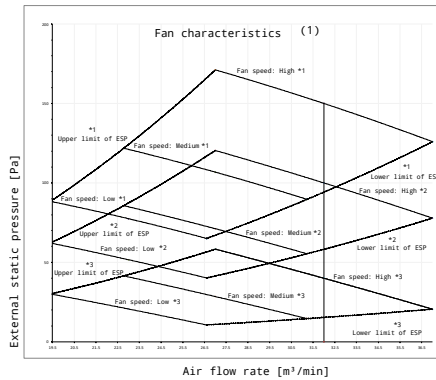
- 1.The fan characteristics shown are in "fan only" mode.
- 2.ESP: External Static Pressure

3D095692B

11 Fan characteristics

11 - 1 Fan Characteristics

FXSA100A



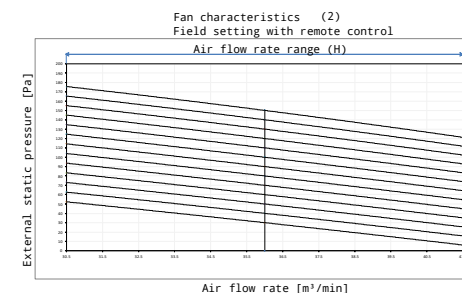
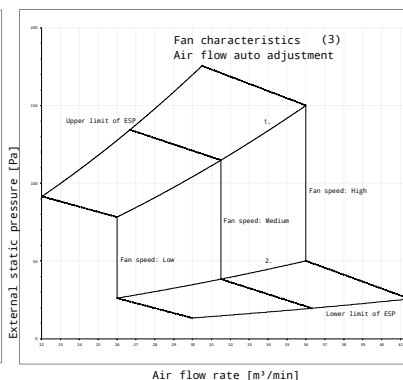
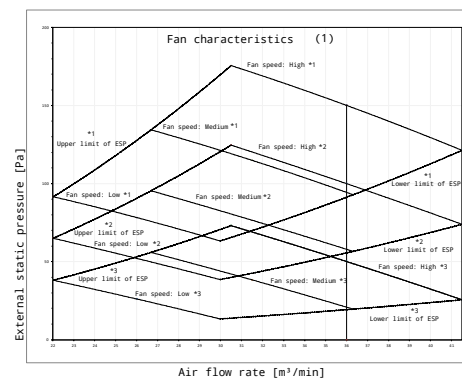
- 1.Upper limit of ESP by air flow auto adjustment
- 2.Lower limit of ESP by air flow auto adjustment

Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	40

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

3D095696B

FXSA125A



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

Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	50

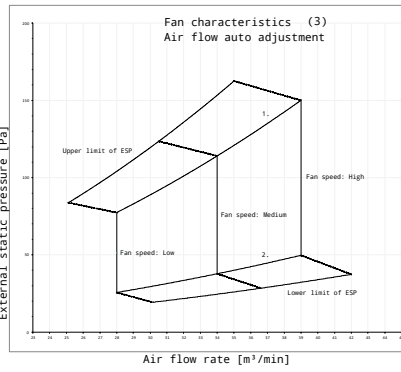
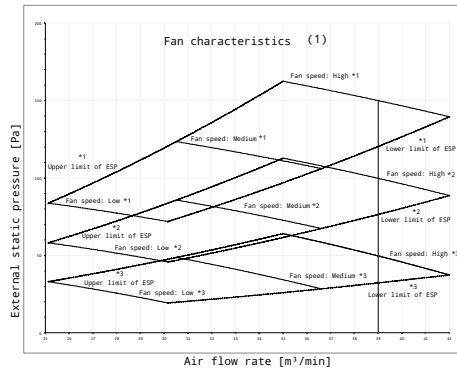
- Notes
- 1.The fan characteristics shown are in "fan only" mode.
 - 2.ESP: External Static Pressure

3D095697B

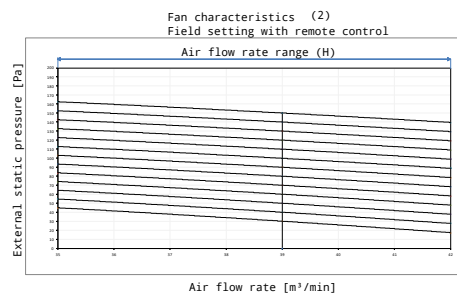
11 Fan characteristics

11 - 1 Fan Characteristics

FXSA140A



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



Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	50

Notes

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

3D096688B

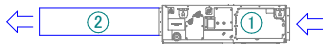
12 Installation

12 - 1 Installation Method

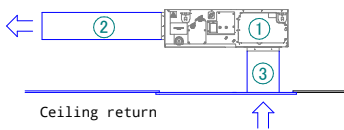
FXSA-A

Installation methods

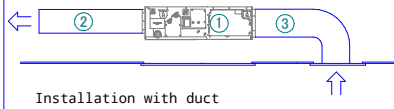
Rear suction



Bottom suction

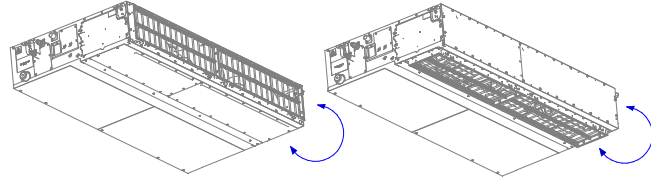


Rear suction

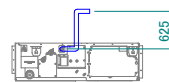


Installation with duct

Number	Description	
①	Indoor unit	
②	Air outlet duct	Field supply
③	Air inlet duct	Field supply



Easy modification from rear suction to bottom suction

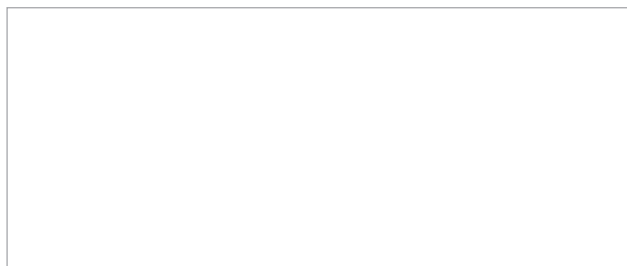


Height of drain pump outlet pipe

Notes

- 1.For more information, refer to the installation manual.

3D129434



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04/2026



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