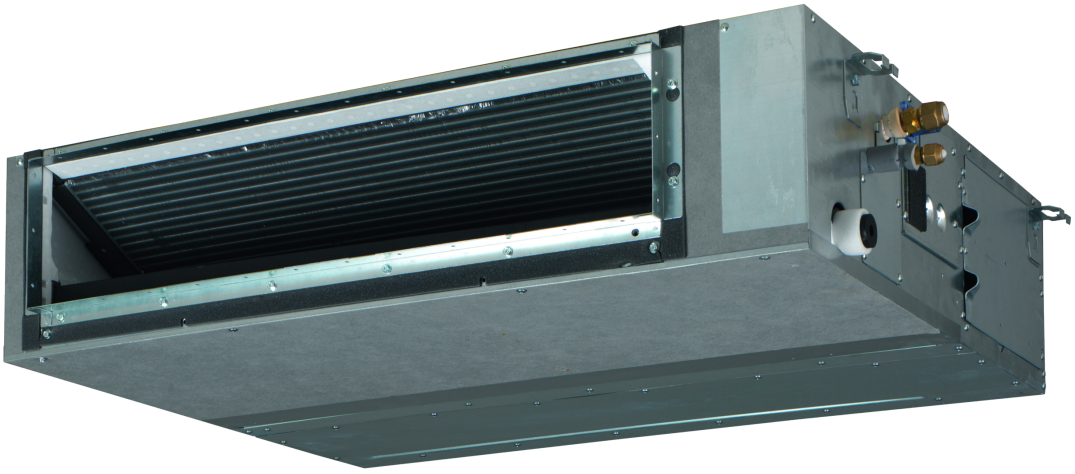
Concealed ceiling unit with medium ESP Air Conditioning Technical Data

FXSA-A



FXSA15A2VEB
FXSA20A2VEB
FXSA25A2VEB
FXSA32A2VEB
FXSA40A2VEB
FXSA50A2VEB
FXSA63A2VEB
FXSA80A2VEB
FXSA100A2VEB
FXSA125A2VEB
FXSA140A2VEB

EEDEN23

TABLE OF CONTENTS

FXSA-A

1	Features	4
	FXSA-A	4
2	Specifications	5
3	Safety device settings	8
4	Options	9
5	Capacity tables	10
	Cooling Capacity Tables	10
	Heating Capacity Tables	11
6	Dimensional drawings	12
7	Centre of gravity	15
8	Piping diagrams	16
9	Wiring diagrams	17
	Wiring Diagrams - Single Phase	17
10	Sound data	19
	Sound Power Spectrum - Cooling	19
	Sound Pressure Spectrum	24
11	Fan characteristics	29
12	Installation	34
	Installation Method	34

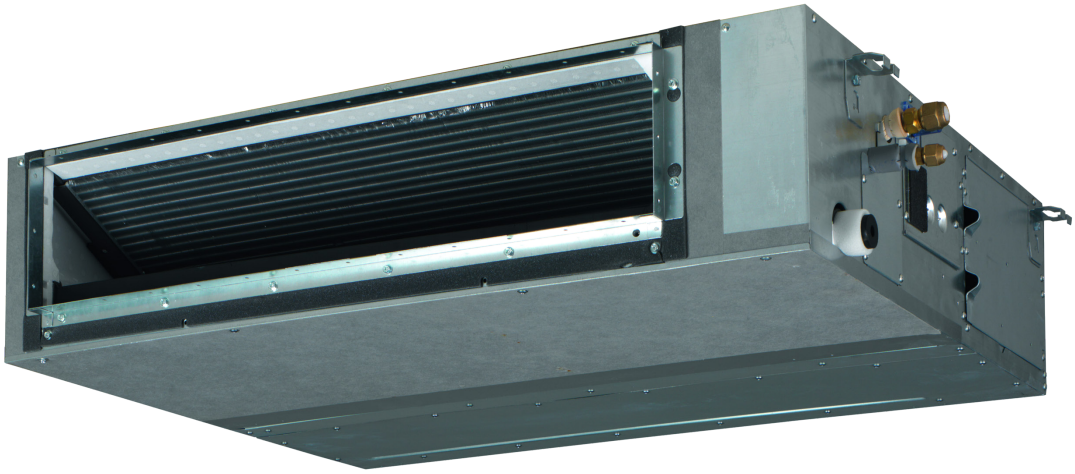
1 Features

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



Onecta app (optional) (optional)

Home leave operation

Fan only

Auto cooling-heating changeover (heat pump)

Whisper quiet

Fan speed steps (3 steps + auto)

Dry programme

Air filter (pre filter)

Weekly timer (optional)

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 (optional)

Drain pump kit (standard)

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			m^2	0.124				0.178	
	Stages	Quantity			26					
Heat exchanger	Empty tubeplate hole	Quantity			26			-	26	-
	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	m^3/min	8.7	9.0		9.5	15.0	15.2
			At medium fan speed	m^3/min	7.5			8.0	12.5	
			At low fan speed	m^3/min	6.5			7.0	11.0	
		Heating	At high fan speed	m^3/min	8.7	9.0		9.5	15.0	15.2
			At medium fan speed	m^3/min	7.5			8.0	12.5	
			At low fan speed	m^3/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					
	Model				Brushless DC motor					
	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

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	
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					

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				
		Width	mm	1,000		1,400		1,550
		Depth	mm	800				
	Packed unit	Height	mm	890				
		Width	mm	1,200		1,600		1,750
		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		m^2	0.288		0.433		0.488
	Stages	Quantity		26				
Heat exchanger	Empty tubeplate hole	Quantity		26	-	26	-	
	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	m^3/min	21.0	23.0	32.0	36.0	39.0
			At medium fan speed	m^3/min	18.0	19.5	27.0	31.5	34.0
			At low fan speed	m^3/min	15.0	16.0	23.0	26.0	28.0
		Heating	At high fan speed	m^3/min	21.0	23.0	32.0	36.0	42.5
			At medium fan speed	m^3/min	18.0	19.5	27.0	31.5	34.0
			At low fan speed	m^3/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	dBA	59	61		64	
Sound pressure level	Cooling	At high fan speed	dBA	33.0	35.0	36.0	39.0	41.5
		At medium fan speed	dBA	30.0	32.0	34.0	36.0	38.0
		At low fan speed	dBA	27.0	29.0	31.0	33.0	34.0
	Heating	At high fan speed	dBA	35.0	37.0		40.0	42.0
		At medium fan speed	dBA	32.0	34.0		37.0	38.5
		At low fan speed	dBA	28.0	30.0	31.0	33.0	34.0
Fan motor	Quantity			1				
	Model			Brushless DC motor				
	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: Installation and operation manual;Quantity: 1;

Standard accessories: Drain hose;Quantity: 1;

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

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

Standard accessories: Screws;Quantity: 40;

Standard accessories: Insulation for fitting;Quantity: 2;

Standard accessories: Sealing pad;Quantity: 5;

Standard accessories: Clamps;Quantity: 4;

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. |
Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m |
Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m |
Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. |
External static pressure is changeable to set by the remote control (from standard to high, see installation manual) |
Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |
Maximum allowable voltage range variation between phases is 2%. |
MCA/MFA: MCA = 1.1 x FLA |
Instead of a fuse, use a circuit breaker |
Select wire size based on the value of MCA |
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
Air discharge adaptor for round ducts	KDAP25A36A	✓				
	KDAP25A56A		✓			
	KDAP25A71A			✓		
	KDAP25A140A				✓	
Wireless remote control	BRC4C65 ②	✓	✓	✓	✓	✓
	BRC4C66 ②	✓	✓	✓	✓	✓
Wired remote control	BRC1H52W/S/K	✓	✓	✓	✓	✓
Wiring adaptor for electrical appendices	KRP4A52 ①	✓	✓	✓	✓	✓
	KRP4A51 ①	✓	✓	✓	✓	✓
	EKRP1C14 ①	✓	✓	✓	✓	✓
Remote sensor	KRCS01-6B	✓	✓	✓	✓	✓
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	✓	✓	✓	✓	✓
Electrical box with earth terminal	KJB411A	✓	✓	✓	✓	✓
Schedule timer	DST301BA51	✓	✓	✓	✓	✓
External adaptor for outdoor unit (installation on indoor unit)	DTA104A61 ①	✓	✓	✓	✓	✓
iTouch Controller	DCS601C51	✓	✓	✓	✓	✓
Digital input adaptor	BRP7A51 ①②	✓	✓	✓	✓	✓
Intelligent Touch Manager	DCM601A51	✓	✓	✓	✓	✓
Optional output PCB	ERP01A50 ①	✓	✓	✓	✓	✓
Wire harness for external wireless temperature sensor	EKEWTSC-1 ③	✓	✓	✓	✓	✓
WLAN adaptor for smartphones	BRP069C51 ②	✓	✓	✓	✓	✓
PCB for multi-tenant indoor units	DTA114A61 ①	✓	✓	✓	✓	✓

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.

3D129478E

5 Capacity tables

5 - 1 Cooling Capacity Tables

FXSA-A

		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]	
Unit size	Fan speed	TC	SHC	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	2,5	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	3,3	1,9
	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	4,2	2,4
	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	5,3	3,0
	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	6,7	3,8
	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	8,2	4,6
	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	10,7	6,1
	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	13,4	7,4
	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	16,6	9,5
	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	20,0	11,0
	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	23,6	13,2
	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]

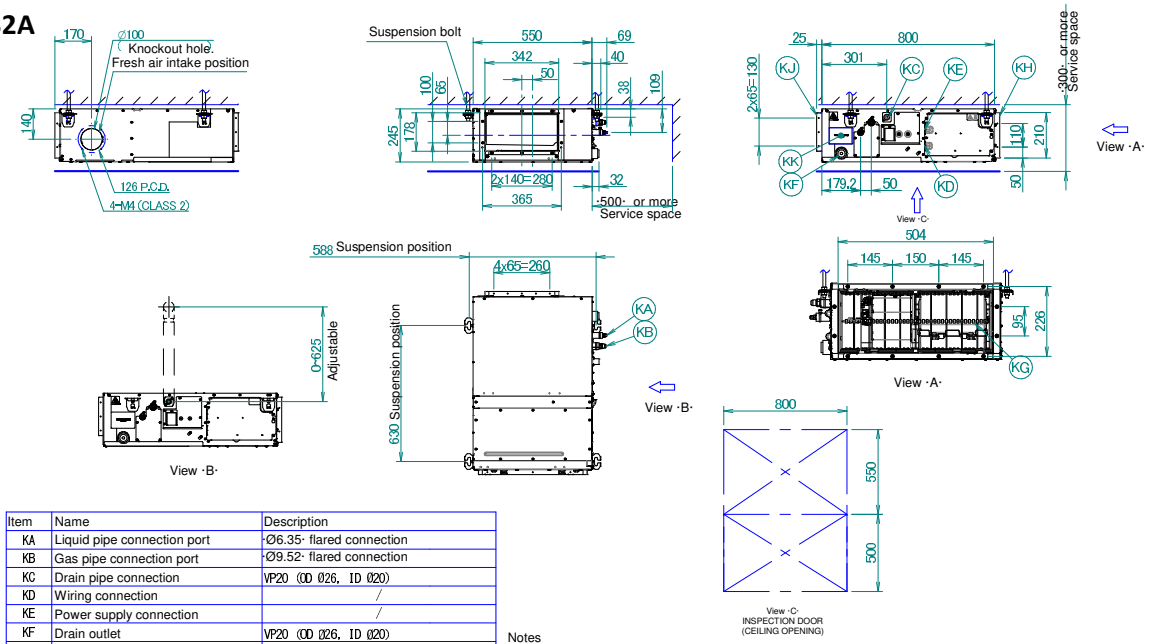
2) Outdoor temperature ·7·°C DB / ·6·°C WB

3D129415

6 Dimensional drawings

6 - 1 Dimensional Drawings

FXSA15A
FXSA20A
FXSA25A
FXSA32A

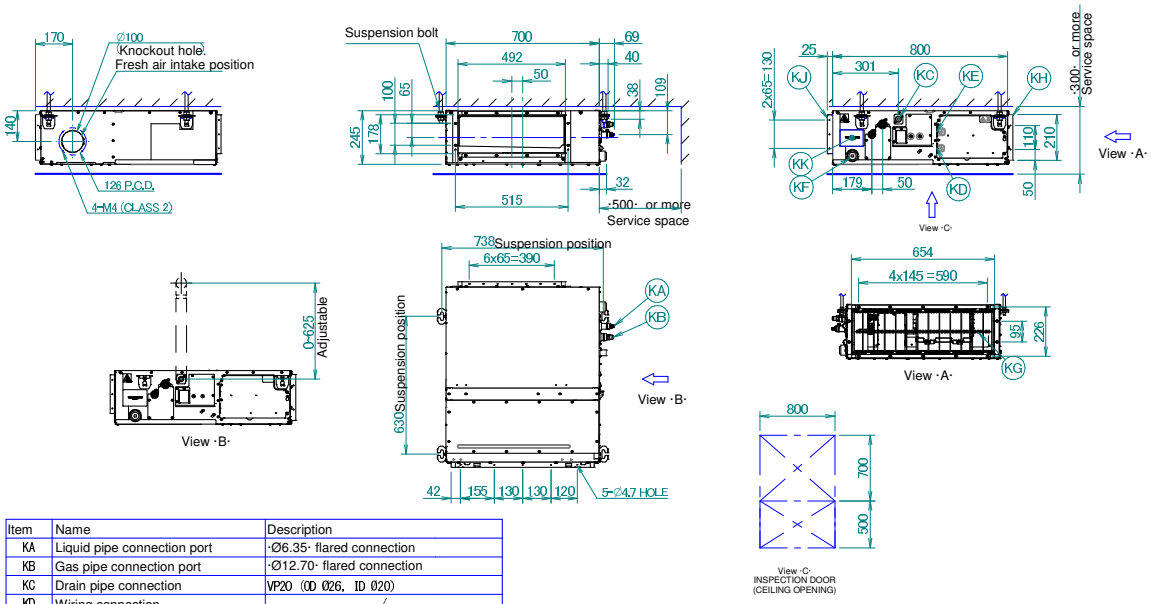


Item	Name	Description
KA	Liquid pipe connection port	·Ø6.35· flared connection
KB	Gas pipe connection port	·Ø9.52· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction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

Notes
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.

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	/

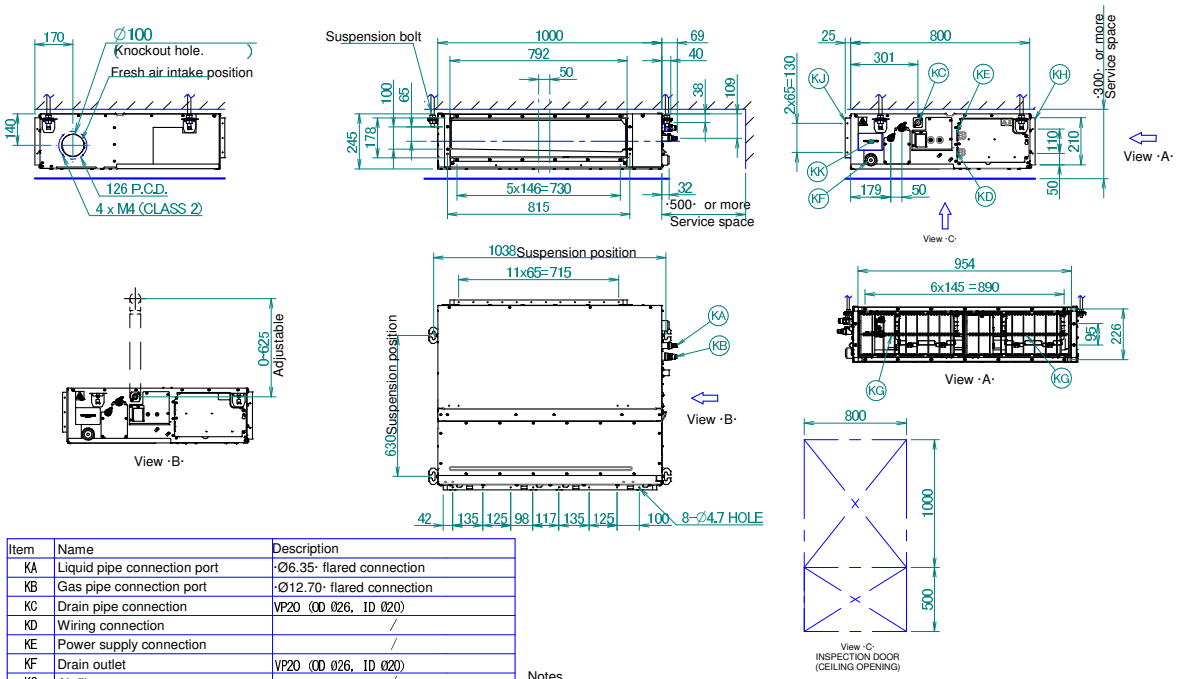
Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.
3. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation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

3D128715A

6 Dimensional drawings

6 - 1 Dimensional Drawings

FXSA63A
FXSA80A

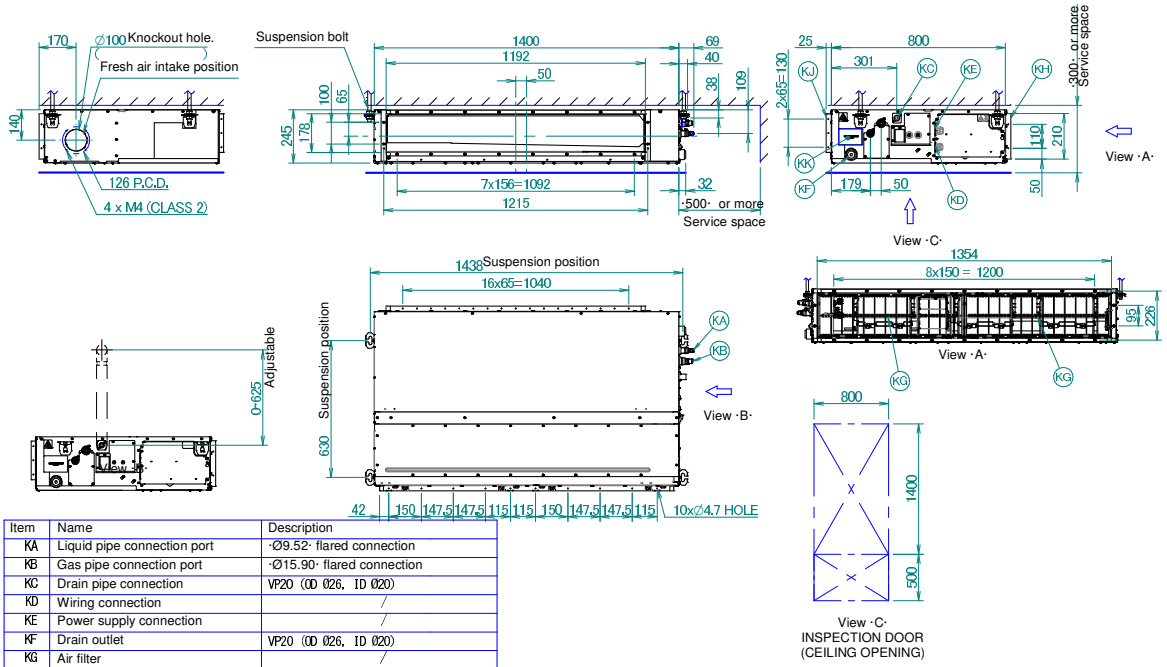


Item	Name	Description
KA	Liquid pipe connection port	·Ø6.35· flared connection
KB	Gas pipe connection port	·Ø12.70· flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction 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	/

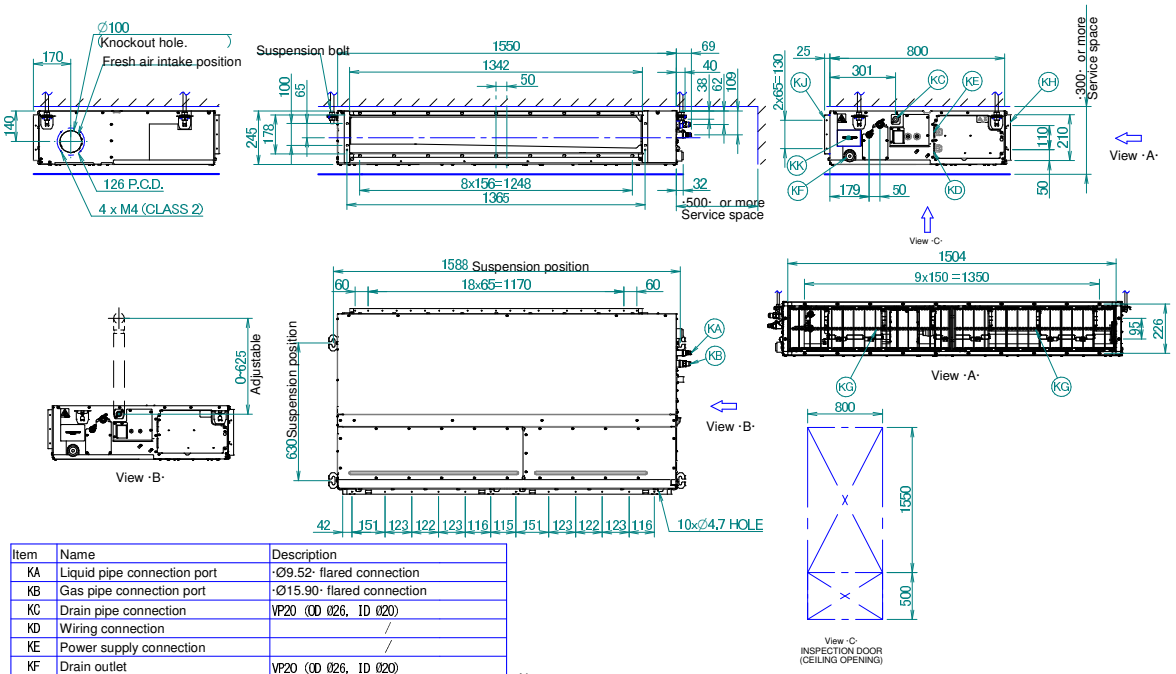
Notes
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.
3. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation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

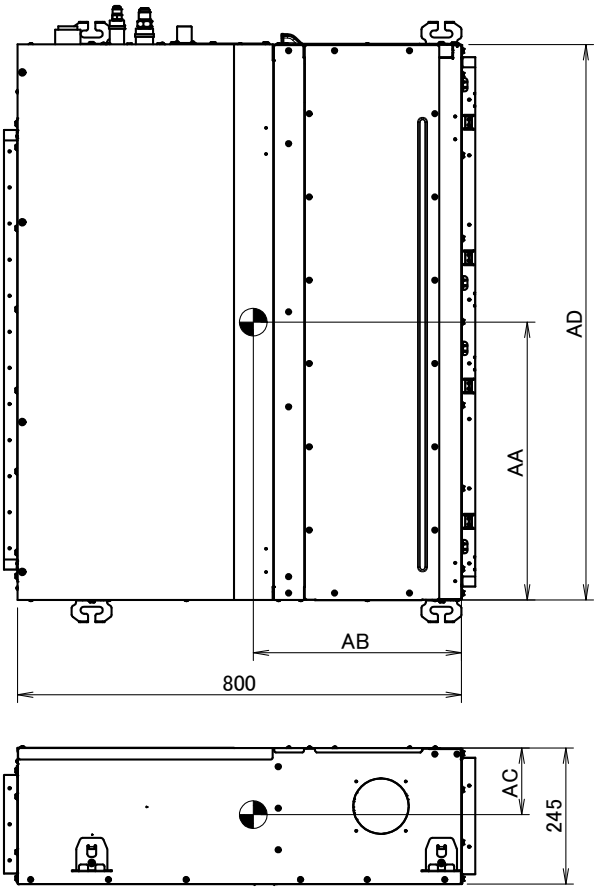
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.
3. In case of bottom suction, mount the chamber cover to the backside of the unit. For more information, refer to the installation manual.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

3D128720A

7 Centre of gravity

7 - 1 Centre of Gravity

FXSA-A



Applicable models	AA	AB	AC	AB
FXSQ15/20/25/32	305	365	145	550
FXSQ40/50	410	375	125	700
FXSQ63/80	525	380	125	100
FXSQ100/125	760	390	115	1400
FXSQ140	870	385	120	1550

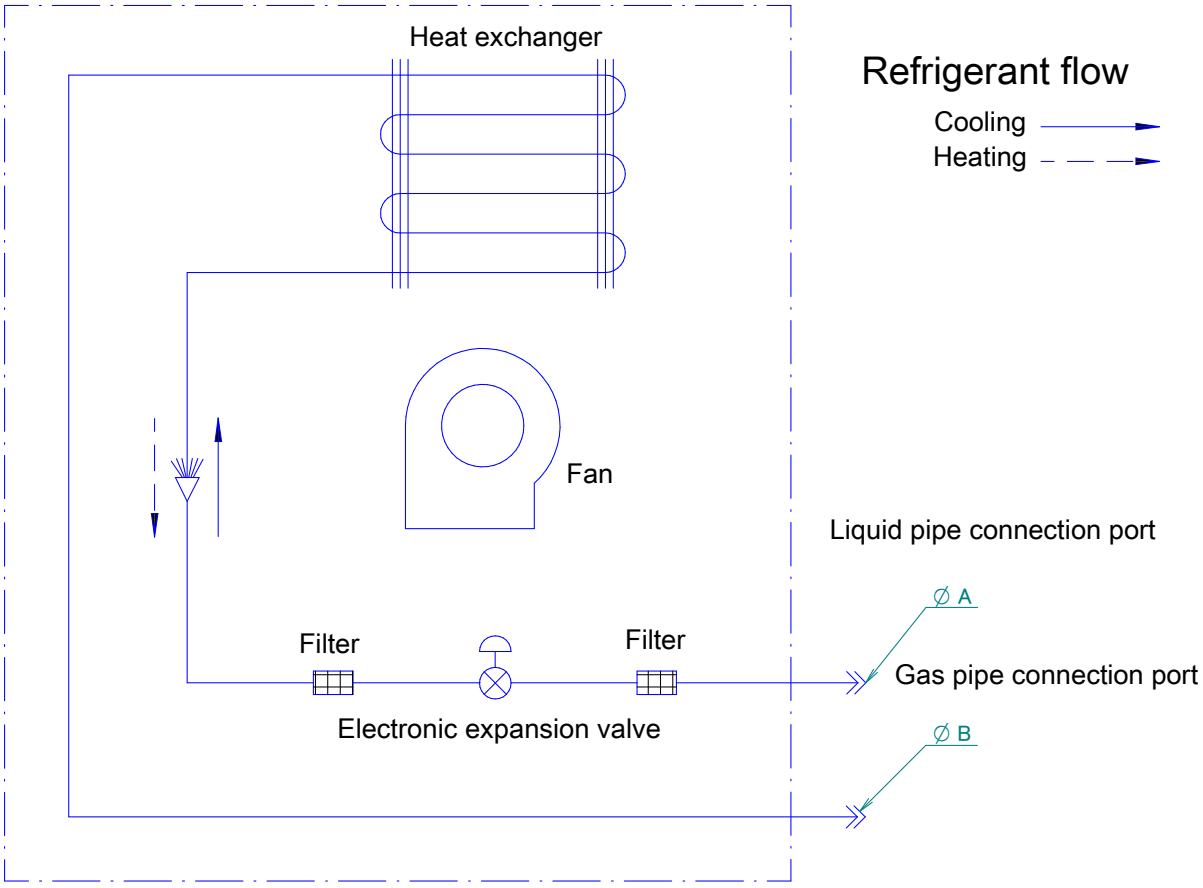
4D096407A

8 Piping diagrams

8 - 1 Piping Diagrams

8

FXSA-A



Model	A	B
FXSA15A2VEB	6.35	9.52
FXSA20A2VEB		
FXSA25A2VEB		
FXSA32A2VEB		
FXSA40A2VEB		12.7
FXSA50A2VEB		
FXSA63A2VEB		
FXSA80A2VEB		
FXSA100A2VEB	9.52	15.9
FXSA125A2VEB		
FXSA140A2VEB		

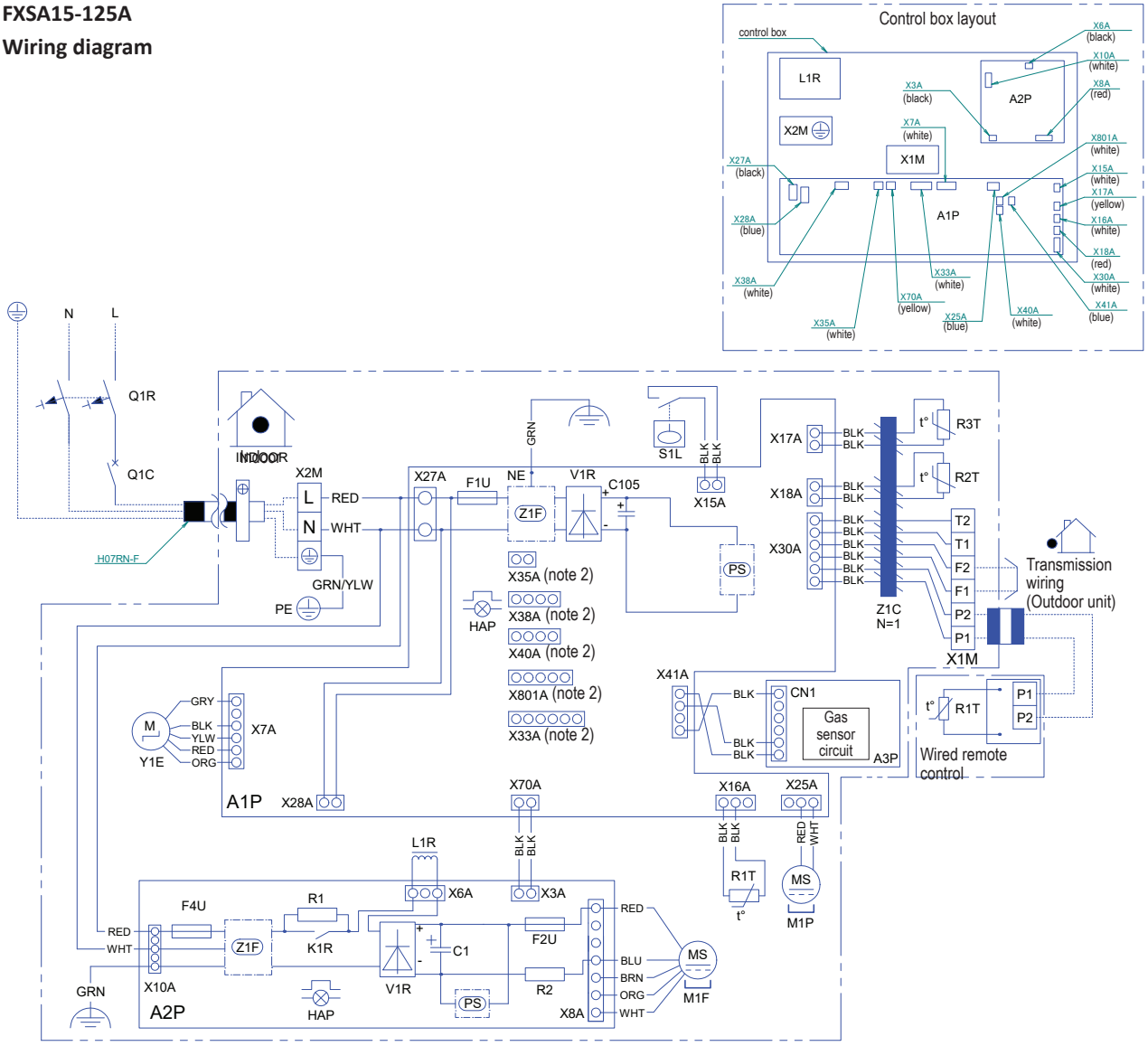
4D126216

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXSA15-125A

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)
F2U	Fuse (T, 5A, 250V)
F4U	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
R1	Resistor
R2	Resistor (current sensor)
R1T	Thermistor (air)
R2T	Thermistor (liquid)
R3T	Thermistor (coil)
S1L	Float switch

Indoor unit	
V1R	Diode bridge
PS	Switching power supply
X1M	Terminal strip (Remote controller)
X2M	Terminal strip (power supply)
X3A-X801A	Connector
Y1E	Electronic expansion valve
Z1C	Ferrite core
Z1F	Noise filter
	Wired remote control
R1T	Thermistor (air)

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.

WIRE COLOURS

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

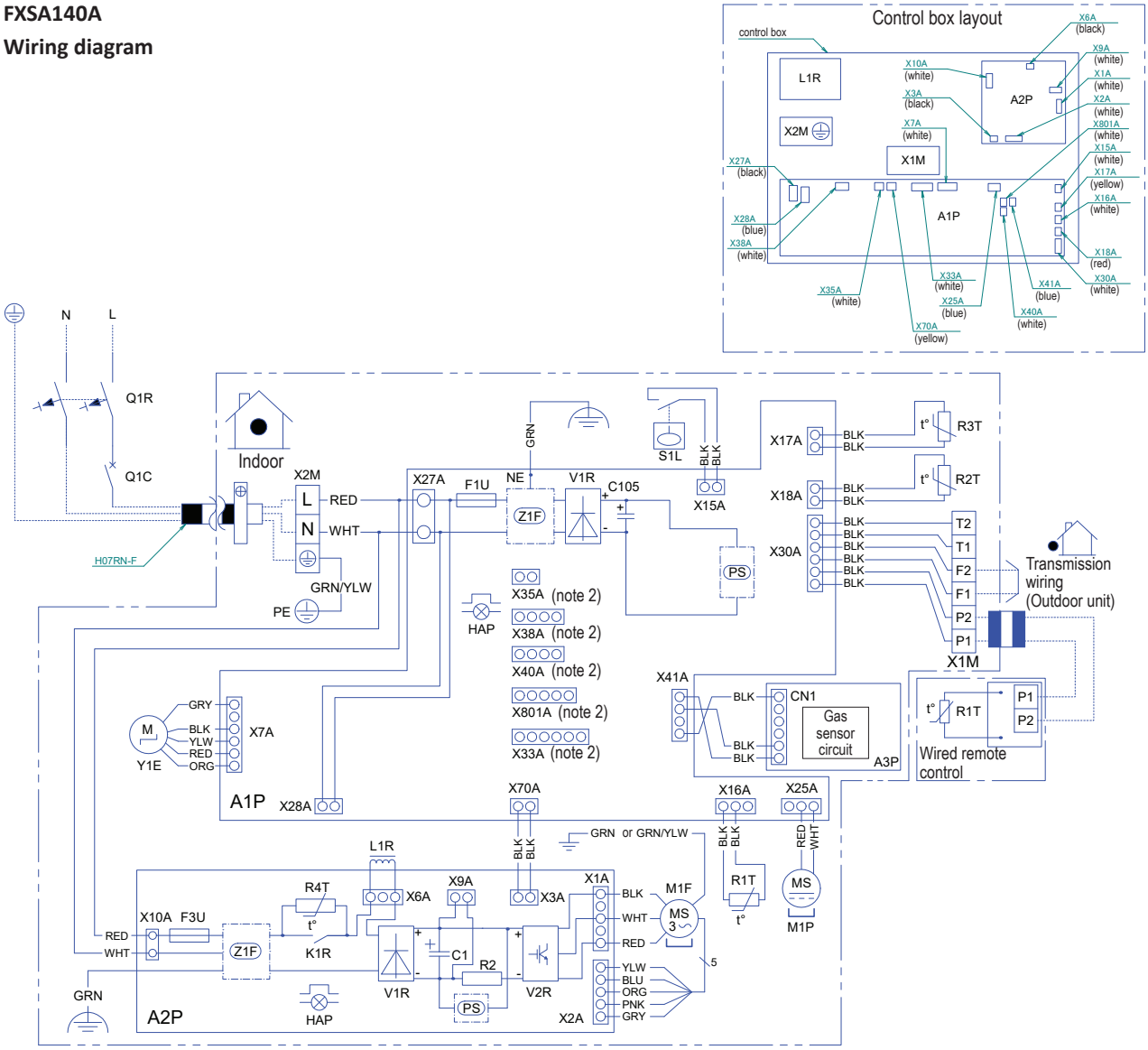
3D128710A

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXSA140A

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

Indoor unit	
V2R	Power module
PS	Switching power supply
X1M	Terminal strip (control)
X2M	Terminal strip (power supply)
X7A-X801A	Connector
Y1E	Electronic expansion valve
Z1F	Noise filter
	Wired remote control
R1T	Thermistor (air)

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.

WIRE COLOURS

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

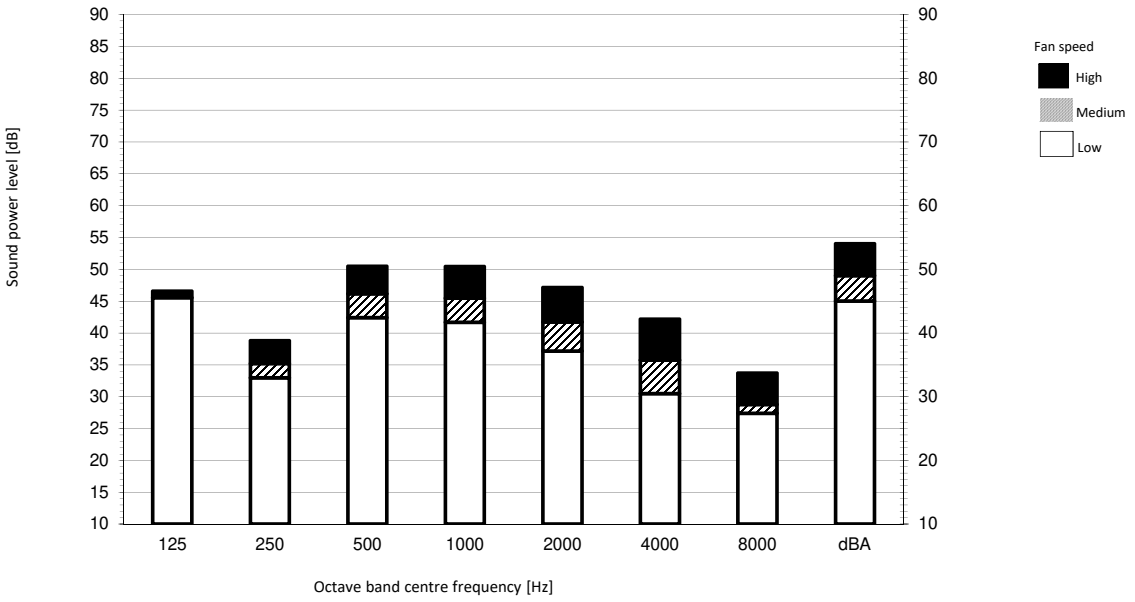
3D128748A

10 Sound data

10 - 1 Sound Power Spectrum - Cooling

FXSA15A

Cooling mode



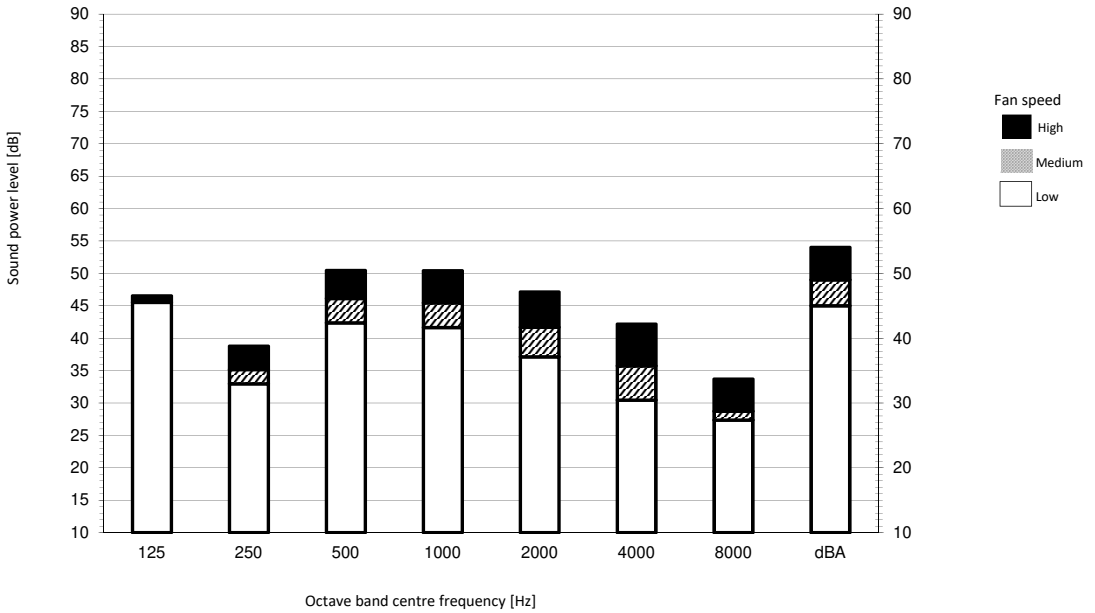
Notes

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

3D095591C

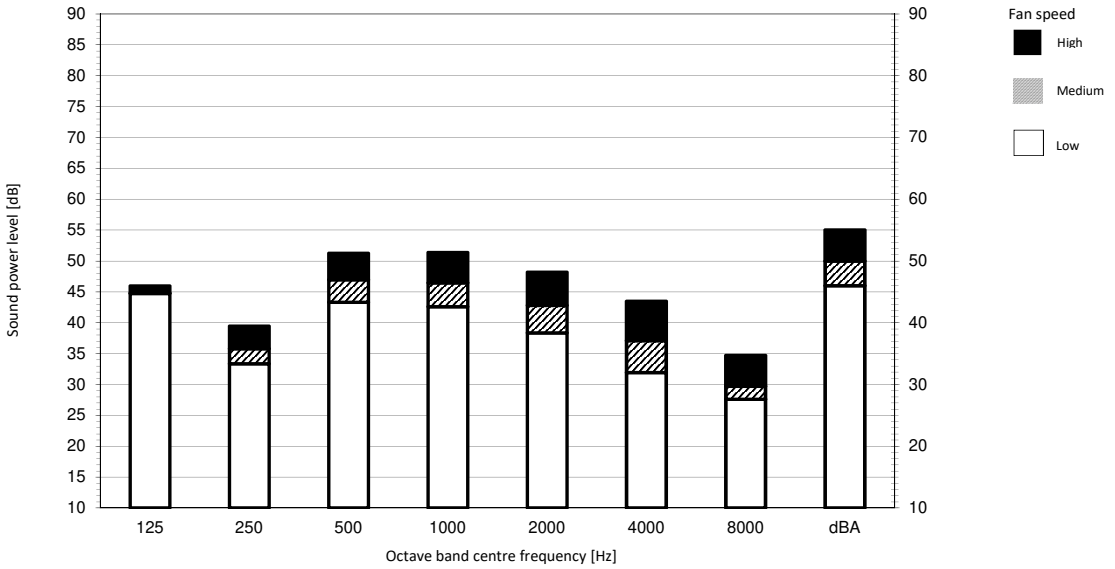
10 Sound data

10 - 1 Sound Power Spectrum - Cooling

10

FXSA32A

Cooling mode



Notes

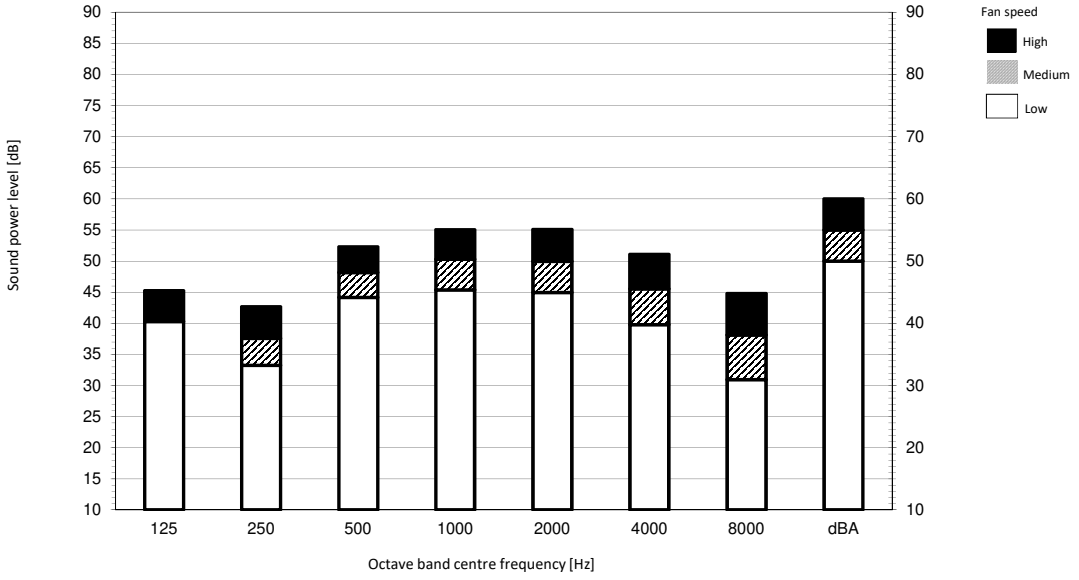
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = ·10E-6µW/m2·
3. Measured according to ISO 3744

3D095592C

FXSA40A
FXSA50A

Cooling mode

△



Notes

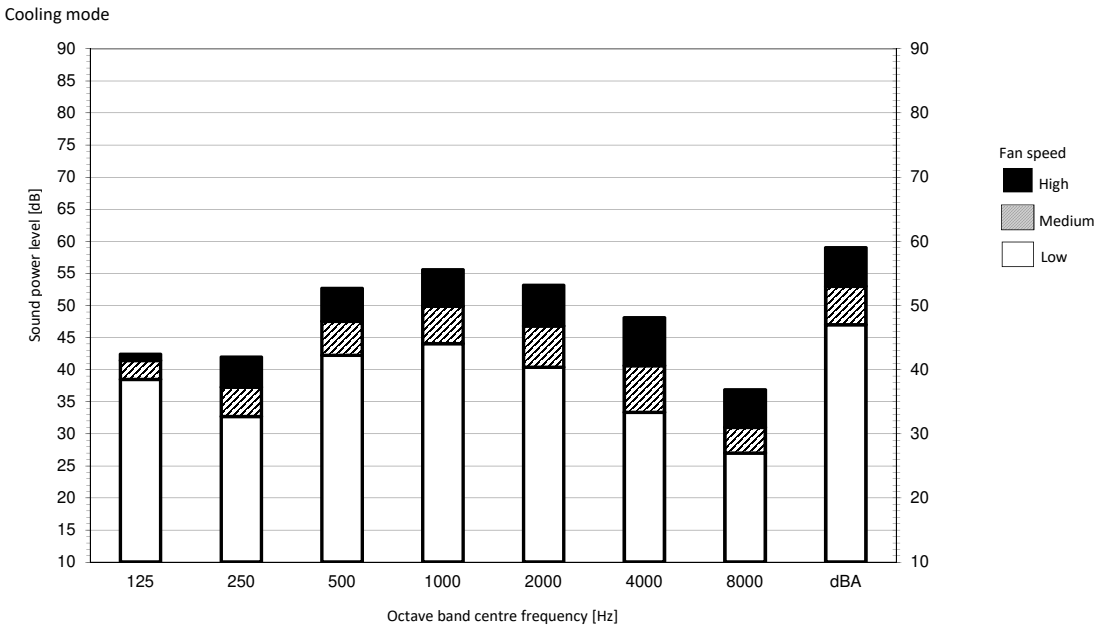
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = ·10E-6µW/m2·
3. Measured according to ISO 3744

3D095579C

10 Sound data

10 - 1 Sound Power Spectrum - Cooling

FXSA63A

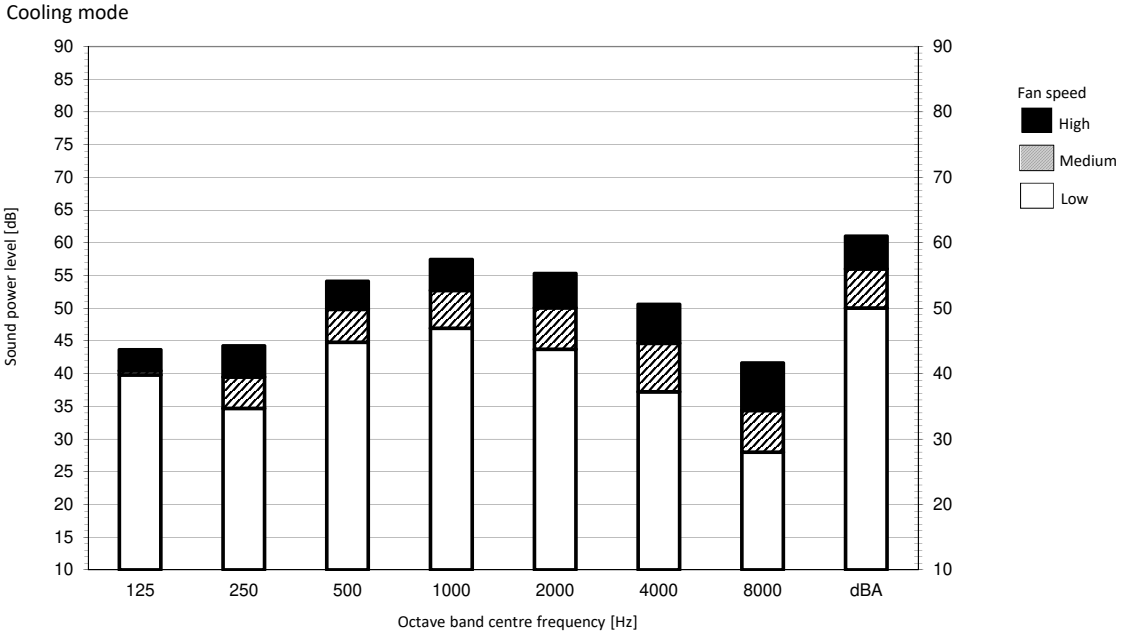


Notes

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

3D095593C

FXSA80A



Notes

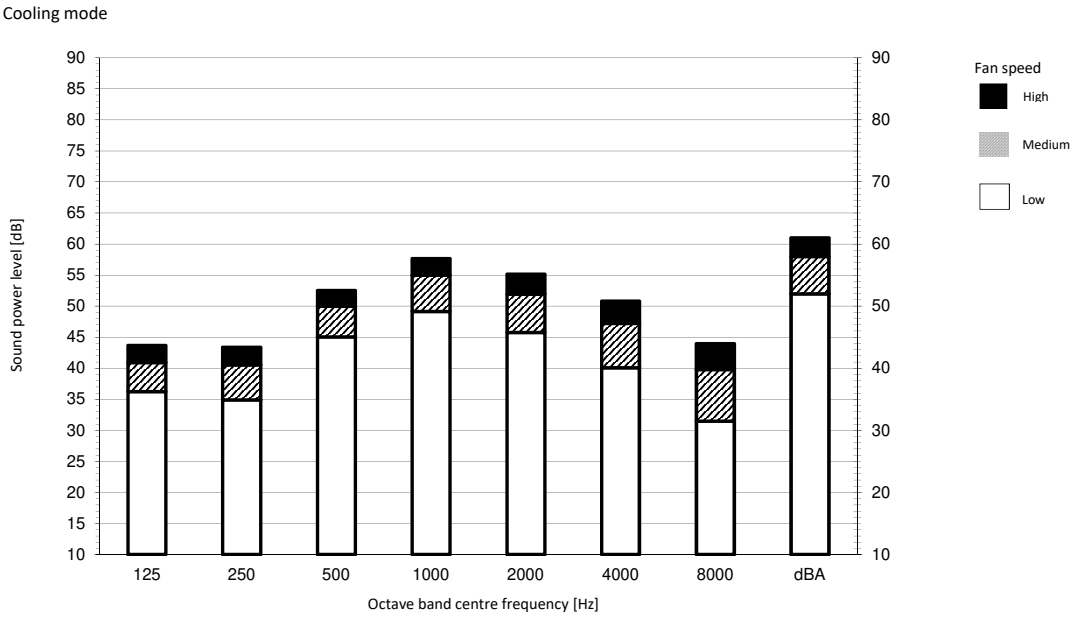
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = ·10E-6µW/m2·
3. Measured according to ISO 3744

3D095594C

10 Sound data

10 - 1 Sound Power Spectrum - Cooling

FXSA100A

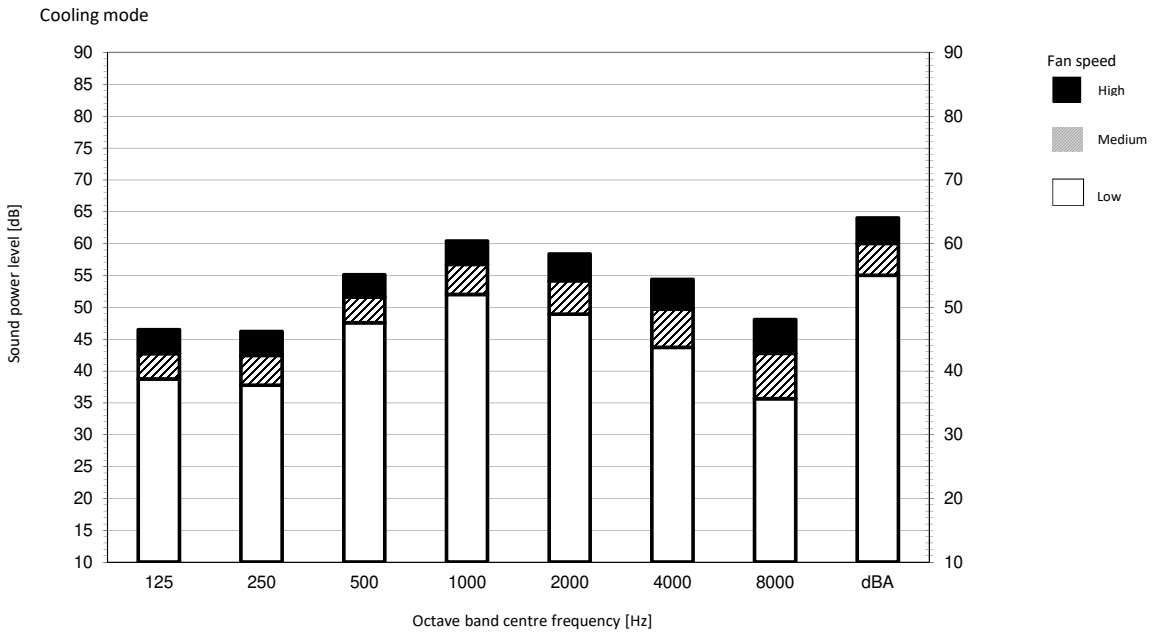


Notes

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

3D095596C

FXSA125A



Notes

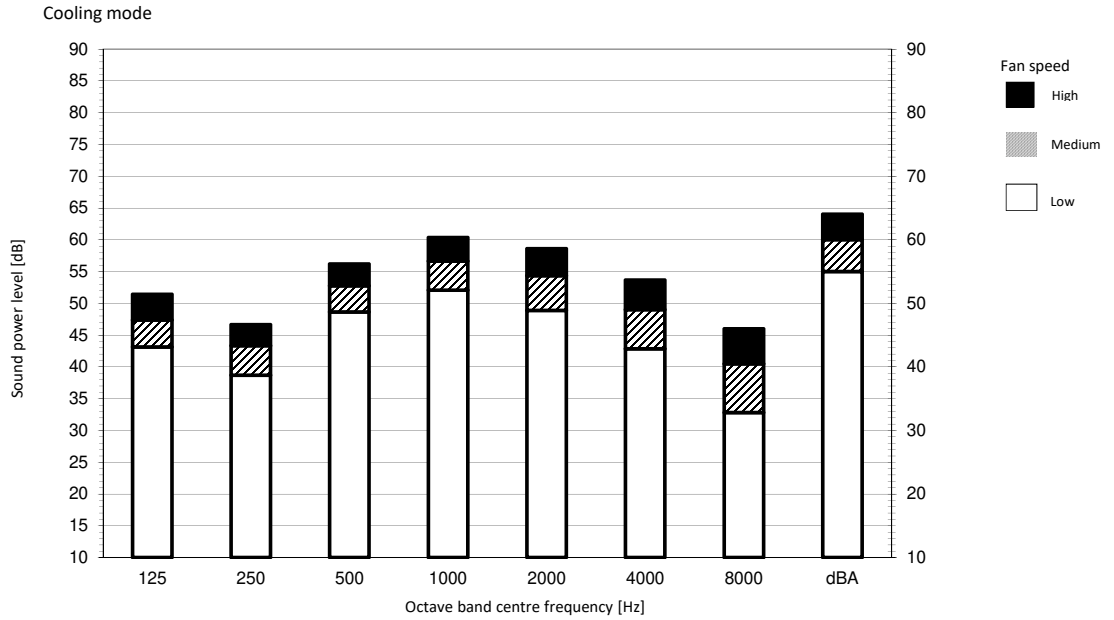
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = ·10E-6µW/m2·
3. Measured according to ISO 3744

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 0dB = ·10E-6µW/m2·
3. Measured according to ISO 3744

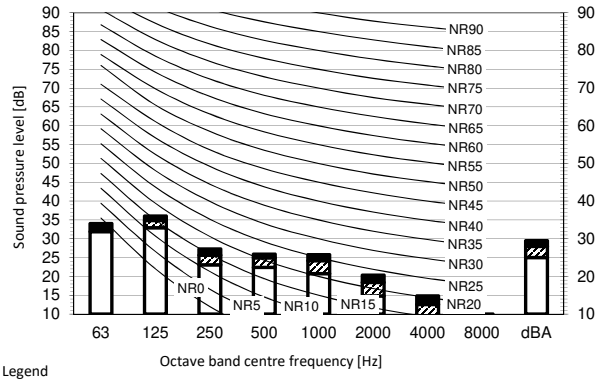
3D100610B

10 Sound data

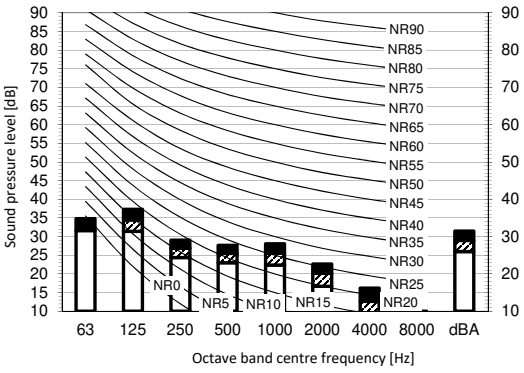
10 - 2 Sound Pressure Spectrum

FXSA15A

Cooling mode



Heating mode



Legend

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

B High

C Medium

D Low

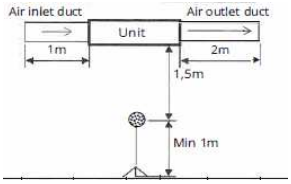
Cooling Total dB

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



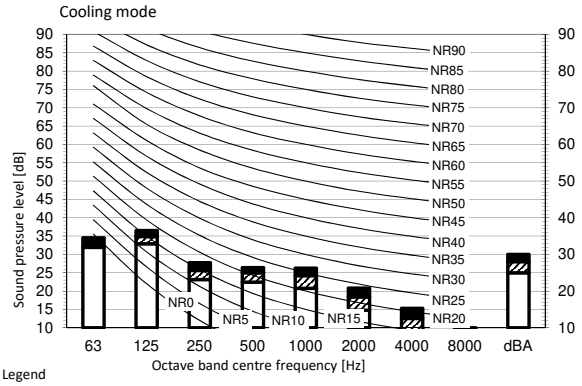
Notes

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

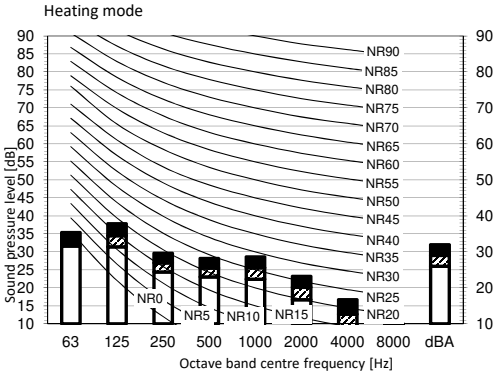
3D095568B

FXSA20A
FXSA25A

Cooling mode



Heating mode



Legend

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

B High

C Medium

D Low

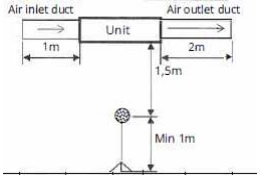
Cooling Total dB

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

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

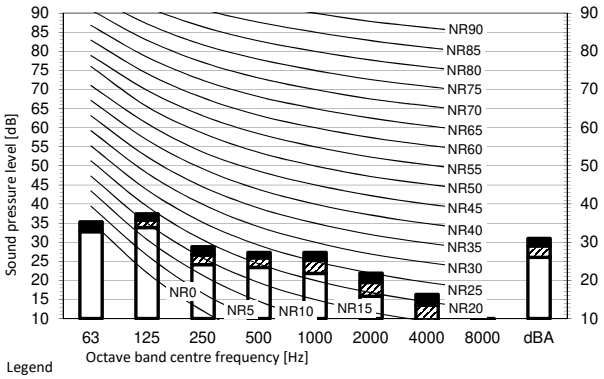
3D095569B

10 Sound data

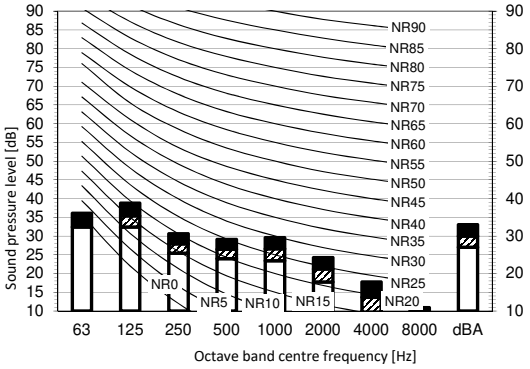
10 - 2 Sound Pressure Spectrum

FXSA32A

Cooling mode



Heating mode



Legend

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

B High

C Medium

D Low

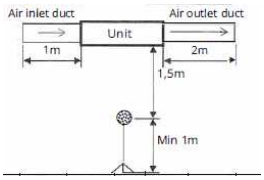
Cooling Total dB

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



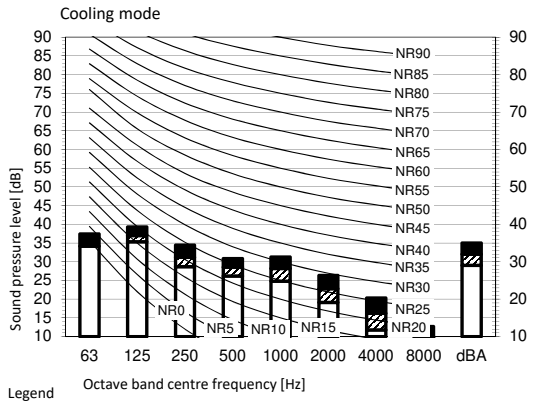
Notes

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

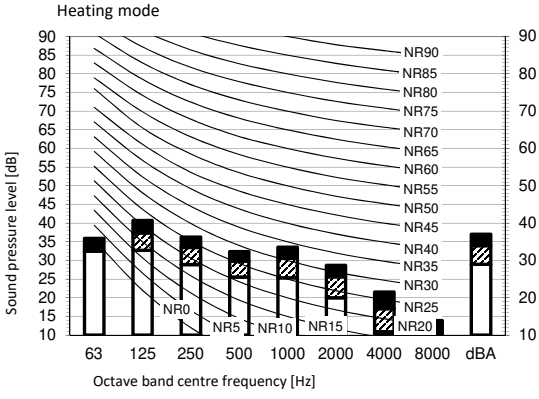
3D095570B

FXSA40A
FXSA50A

Cooling mode



Heating mode



Legend

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

B High

C Medium

D Low

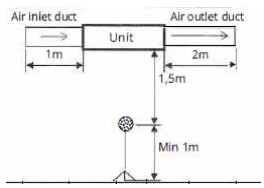
Cooling Total dB

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

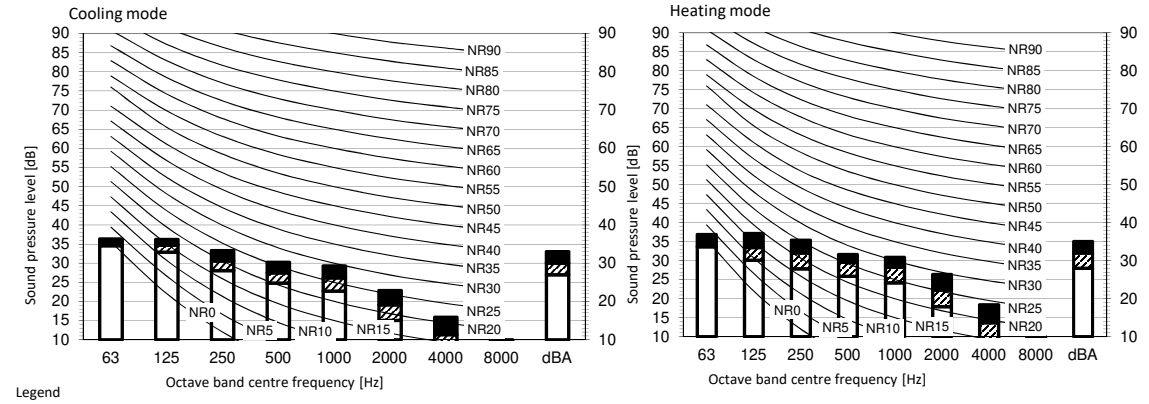
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

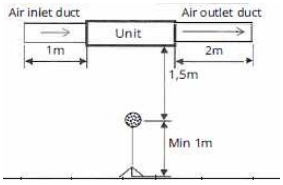
Cooling Total dB

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

Location of microphone

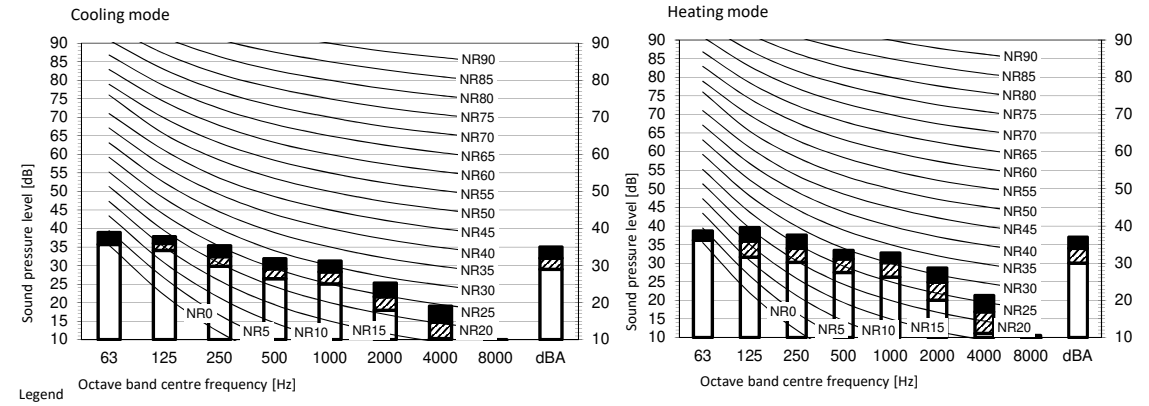


Notes

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

3D095571B

FXSA80A



Legend

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

B High

C Medium

D Low

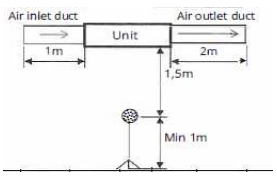
Cooling Total dB

A	B	C	D
dBA	35,0	32,0	29,0

Heating Total dB

A	B	C	D
dBA	37,0	34,0	30,0

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

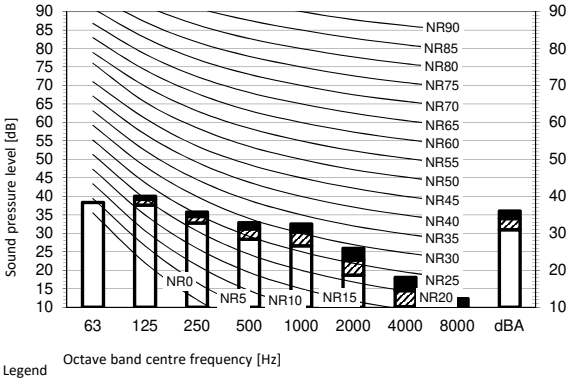
3D095572B

10 Sound data

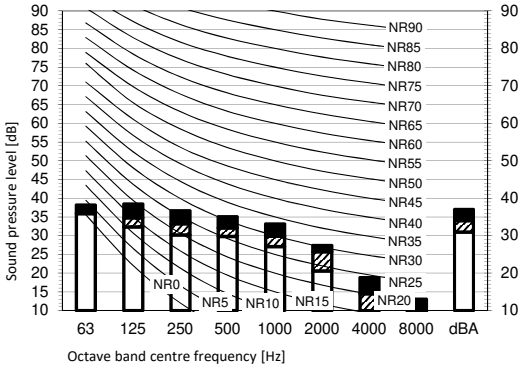
10 - 2 Sound Pressure Spectrum

FXSA100A

Cooling mode



Heating mode



Legend

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

B High

C Medium

D Low

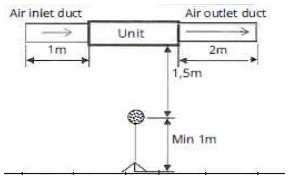
Cooling Total dB

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



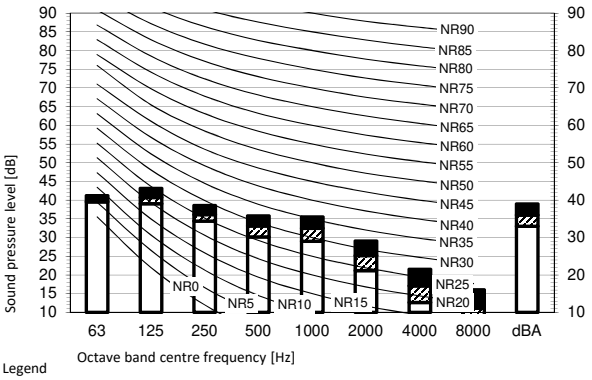
Notes

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

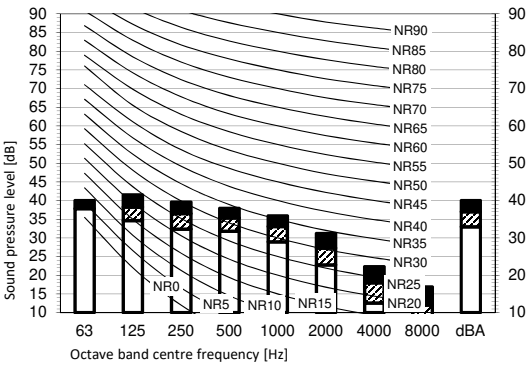
3D095573B

FXSA125A

Cooling mode



Heating mode



Legend

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

B High

C Medium

D Low

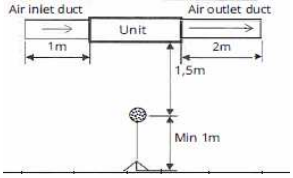
Cooling Total dB

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

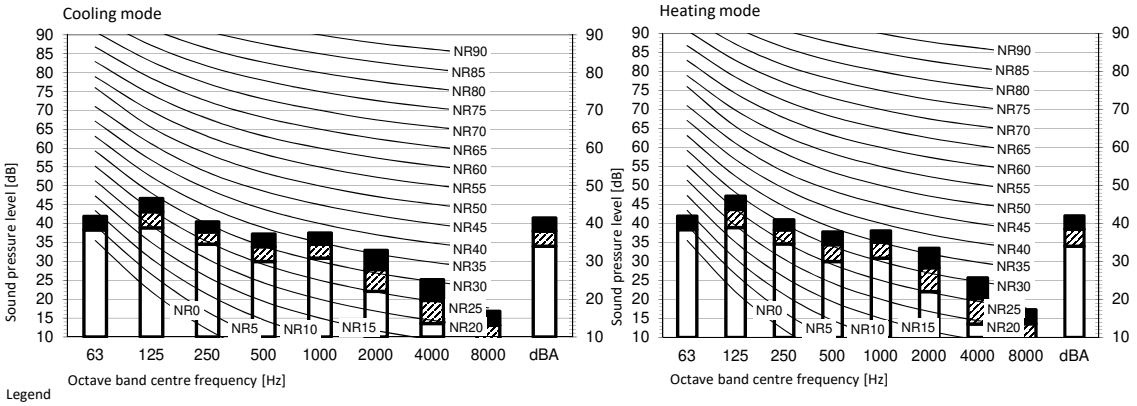
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

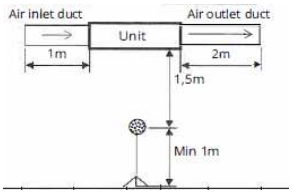
Cooling — Total dB

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

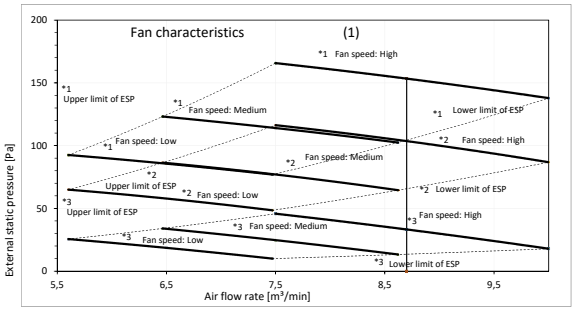
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

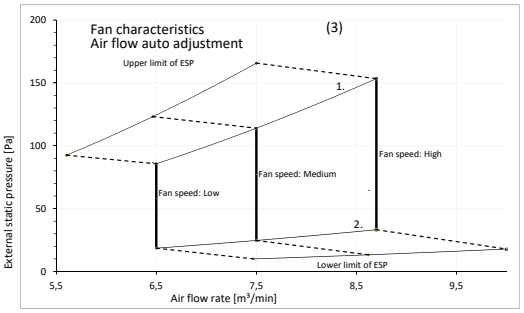
3D096622B

11 Fan characteristics

11 - 1 Fan Characteristics

FXSA15A

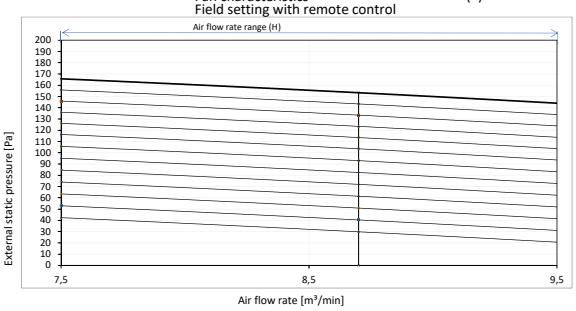




1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

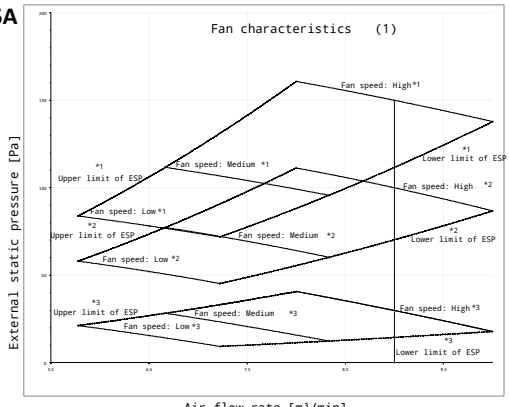
Fan characteristics (2)
Field setting with remote control

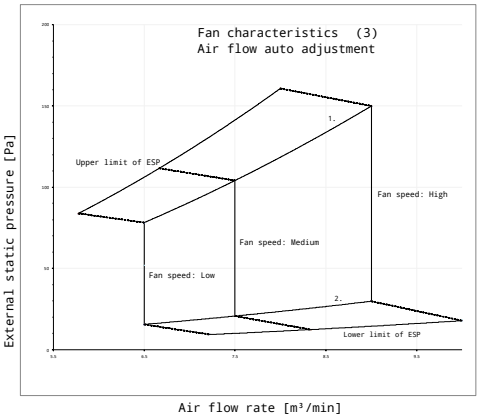


Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D096999B

FXSA20A
FXSA25A

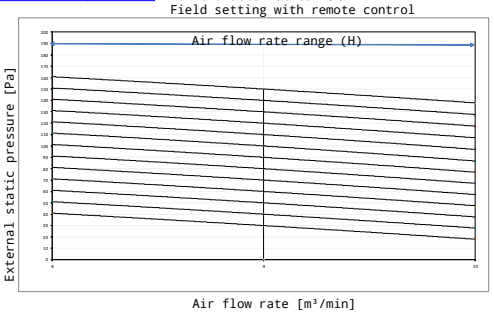




1.Upper limit of ESP by air flow auto adjustment
2.Lower limit of ESP by air flow auto adjustment

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

Fan characteristics (2)
Field setting with remote control



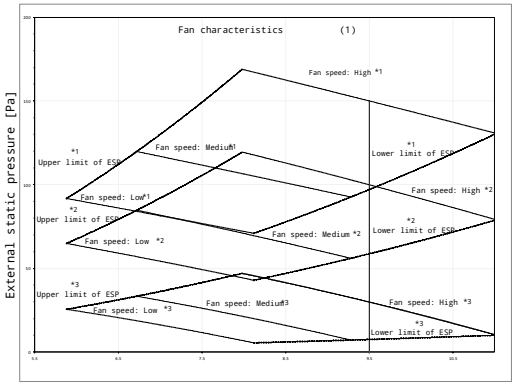
Notes
1.The fan characteristics shown are in "fan only" mode.
2.ESP: External Static Pressure

3D095680B

11 Fan characteristics

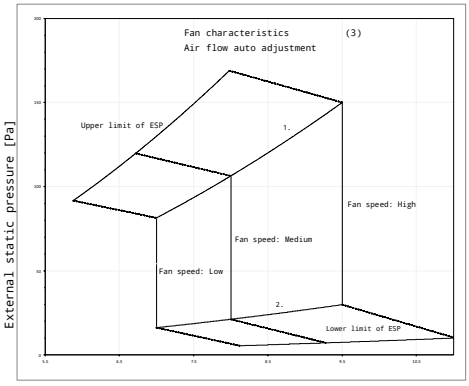
11 - 1 Fan Characteristics

FXSA32A



Air flow rate [m³/min]

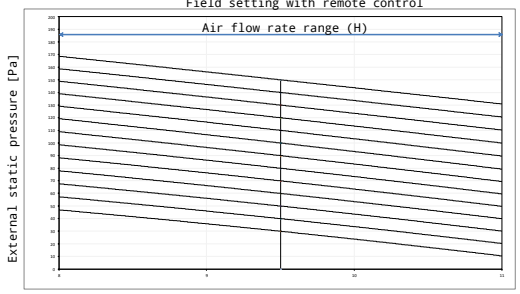
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30



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

Fan characteristics (2)
Field setting with remote control



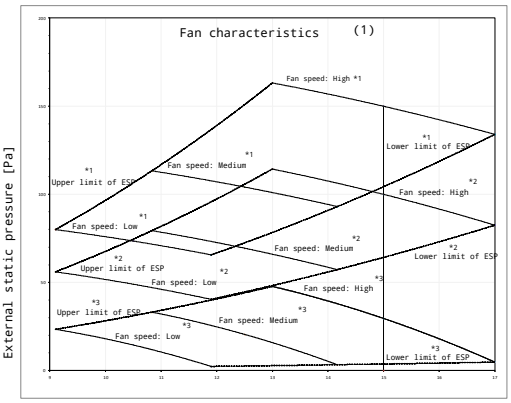
Air flow rate [m³/min]

Notes

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

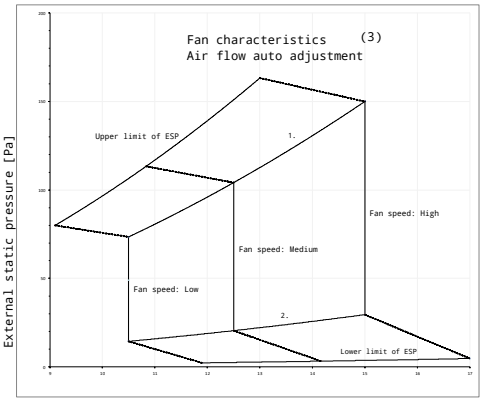
3D095681B

FXSA40A



Air flow rate [m³/min]

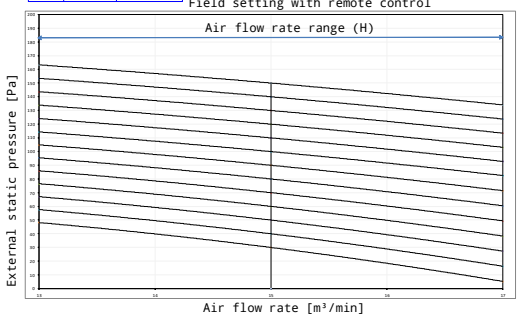
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30



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

Fan characteristics (2)
Field setting with remote control



Air flow rate [m³/min]

Notes

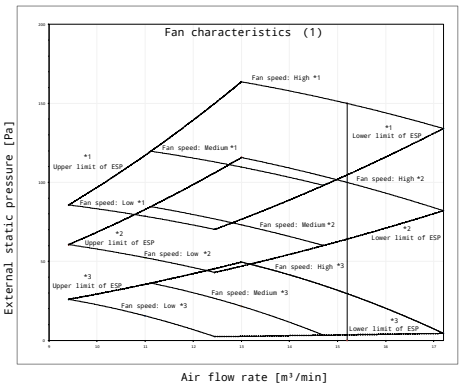
1.The fan characteristics shown are in "fan only" mode.
2.ESP: External Static Pressure

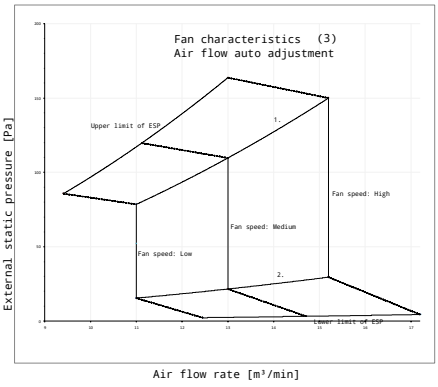
3D095682B

11 Fan characteristics

11 - 1 Fan Characteristics

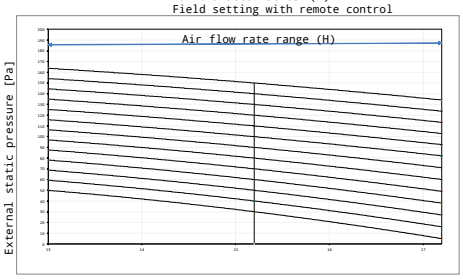
FXSA50A





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

Fan characteristics (2)
Field setting with remote control



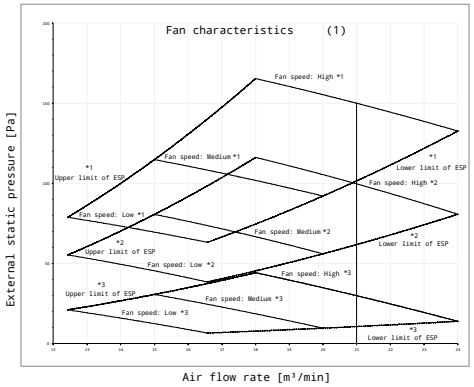
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30

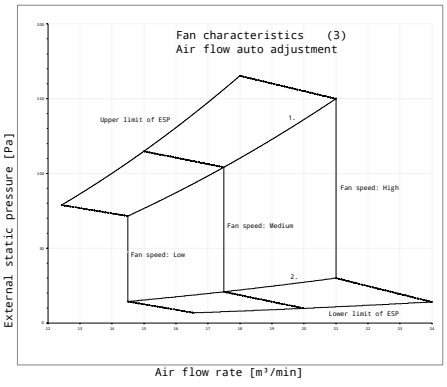
Notes

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

3D095688B

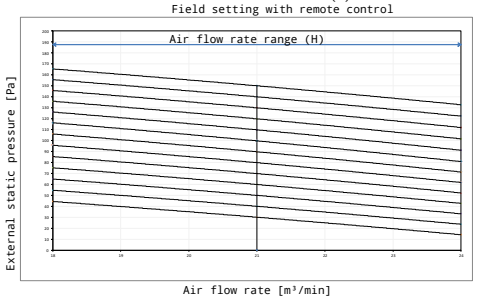
FXSA63A





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

Fan characteristics (2)
Field setting with remote control



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

Notes

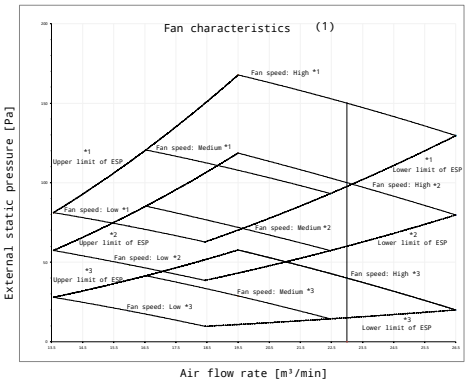
1.The fan characteristics shown are in "fan only" mode.
2.ESP: External Static Pressure

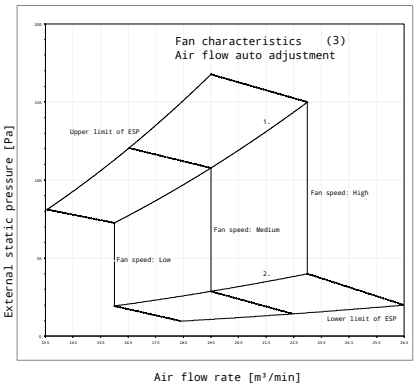
3D095690B

11 Fan characteristics

11 - 1 Fan Characteristics

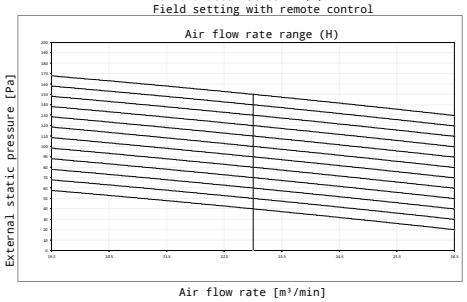
FXSA80A





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

Fan characteristics (2)
Field setting with remote control

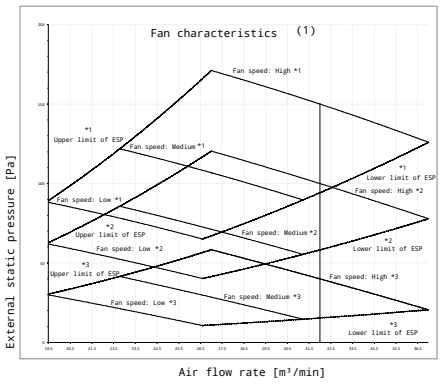


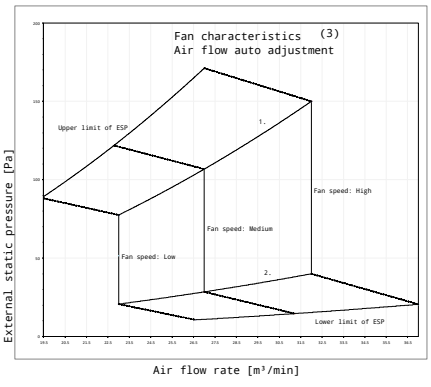
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	40

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

3D095692B

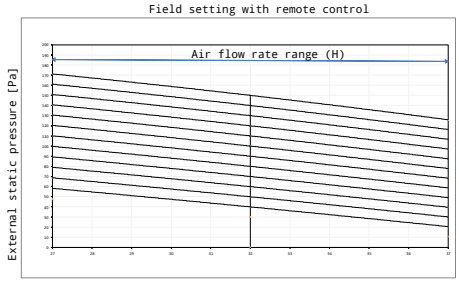
FXSA100A





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

Fan characteristics (2)
Field setting with remote control



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

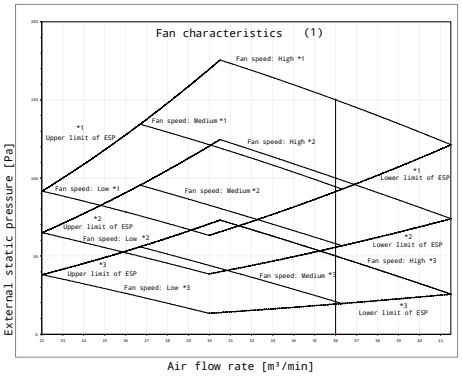
Notes
1.The fan characteristics shown are in "fan only" mode.
2.ESP: External Static Pressure

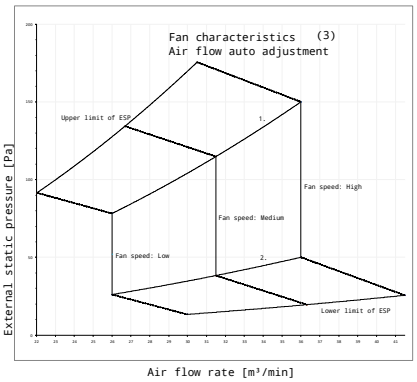
3D095696B

11 Fan characteristics

11 - 1 Fan Characteristics

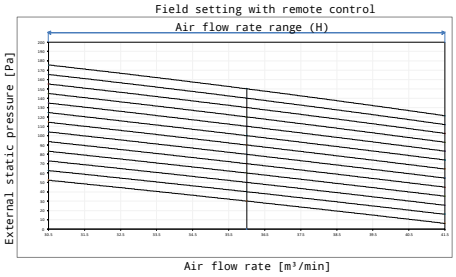
FXSA125A





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

Fan characteristics (2)
Field setting with remote control

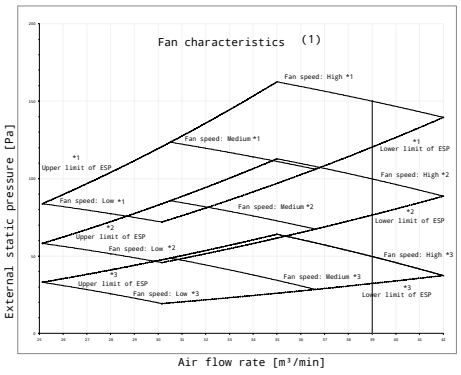


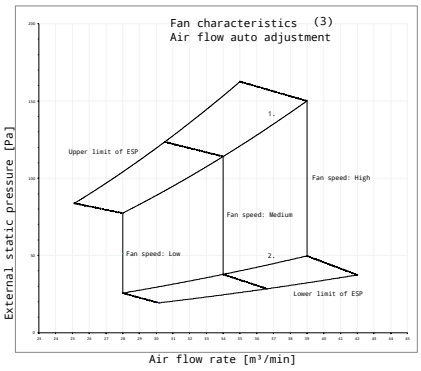
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	50

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

3D095697B

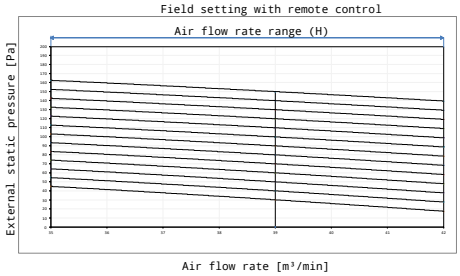
FXSA140A





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

Fan characteristics (2)
Field setting with remote control



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

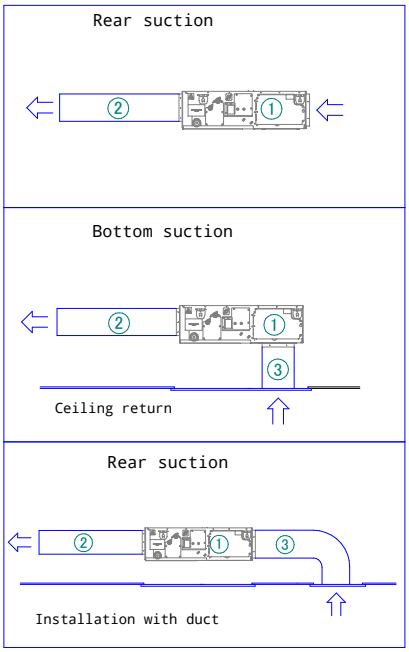
3D096688B

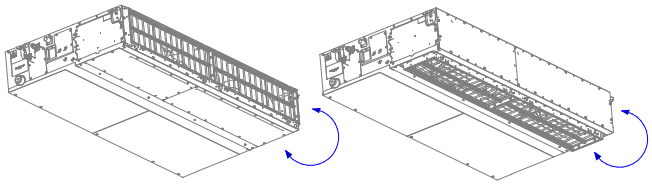
12 Installation

12 - 1 Installation Method

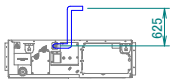
FXSA-A

Installation methods





Easy modification from rear suction to bottom suction



Height of drain pump outlet pipe

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

Notes

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

3D129434

Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)

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