



# Air Conditioning Technical Data

Concealed ceiling unit with medium ESP



EEDEN15-204

FXSQ-A



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# 1 Features

## Optimum comfort guaranteed no matter the length of ductwork or type of grilles

- Up to 150Pa external static pressure (ESP) to cope with most of the duct and grille setups
- Whisper quiet operation: down to 25dBA sound pressure level
- Narrow ceilings voids are no longer a challenge, these units can swiftly be integrated as they only are 245mm in height.
- Unique automatic air flow adjustment function selects the most appropriate fan curve to achieve the best comfort. With these concealed ceiling units, over 10 fan curves can be chosen to select the most appropriate fan curve for your application
- Flexible installation: - bottom and rear suction allow installation both in low and shallow ceiling voids - choice between free use into a false ceiling or connection to optional suction grilles
- Discretely concealed in the ceiling: 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.
- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
- Standard built-in drain pump increases flexibility and installation speed



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 Technical Specifications				FXSQ15A	FXSQ20A	FXSQ25A	FXSQ32A	FXSQ40A	FXSQ50A		
Cooling capacity	Nom.			kW	1.7	2.2	2.8	3.6	4.5	5.6	
Heating capacity	Nom.			kW	1.9	2.5	3.2	4.0	5.0	6.3	
Power input - 50Hz	Cooling	Nom.		kW	0.041			0.045	0.092	0.095	
	Heating	Nom.		kW	0.038			0.042	0.089	0.092	
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	28.5	29		
	Packed unit		kg		25		25.5	30	30.5		
Casing	Colour			Not painted (galvanised)							
	Material			Galvanised steel plate							
Heat exchanger	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	High	m³/min		8.7	9		9.5	15	15.2
			Nom.	m³/min		7.5			8	12.5	
			Low	m³/min		6.5			7.0	11	
		Heating	High	m³/min		8.7	9		9.5	15	15.2
			Nom.	m³/min		7.5			8	12.5	
			Low	m³/min		6.5			7	11	
External static pressure - 50Hz	High		Pa		150						
	Nom.		Pa		30						
Fan motor	Quantity			1							
	Model			Brushless DC motor							
	Speed	Steps		3							
	Output	High	W		78			130			
Air filter	Type			Resin net with mold resistance							
Sound power level	Cooling	Nom.		dBA		54		55	60		
Sound pressure level	Cooling	High	dBA		29.5	30		31	35		
		Nom.	dBA		28			29	32		
		Low	dBA		25			26	29		
	Heating	High	dBA		31.5	32		33	37		
		Nom.	dBA		29			30	34		
		Low	dBA		26			27	29		
Refrigerant	Type			R-410A							
Piping connections	Liquid	Type		Flare connection							
		OD	mm		6.35						
	Gas	Type		Flare connection							
		OD	mm		12.7						
	Drain				VP20 (I.D. 20/O.D. 26)						
	Heat insulation				Foamed polystyrene/polyethylene						
Sound absorbing insulation				Butyl Rubber							
Drain-up height				mm		625					
Control systems	Infrared remote control			BRC4C65							
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)							
	Wired remote control			BRC1D52 / BRC1E52A/B							

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;

## 2 Specifications

Standard Accessories : Insulation for fitting; Quantity : 2;

Standard Accessories : Sealing pad; Quantity : 5;

Standard Accessories : Clamps; Quantity : 4;

2-2 Technical Specifications				FXSQ63A	FXSQ80A	FXSQ100A	FXSQ125A	FXSQ140A	
Cooling capacity	Nom.		kW	7.1	9.0	11.2	14.0	16.0	
Heating capacity	Nom.		kW	8.0	10.0	12.5	16.0	18.0	
Power input - 50Hz	Cooling	Nom.	kW	0.095	0.121	0.157	0.214	0.243	
	Heating	Nom.	kW	0.092	0.118	0.154	0.211	0.240	
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	47	51	
	Packed unit		kg	37.5	38.5	48	49	53	
Casing	Colour		Not painted (galvanised)						
	Material		Galvanised steel plate						
Heat exchanger	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	High	m <sup>3</sup> /min	21.0	23	32	36	39
			Nom.	m <sup>3</sup> /min	18	19.5	27	31.5	34
			Low	m <sup>3</sup> /min	15	16	23	26	28
		Heating	High	m <sup>3</sup> /min	21	23	32	36	39
			Nom.	m <sup>3</sup> /min	18	19.5	27	31.5	34
			Low	m <sup>3</sup> /min	15	16.0	23	26	28
External static pressure - 50Hz	High	Pa	150						
	Nom.	Pa	30	40		50			
Fan motor	Quantity		1						
	Model		Brushless DC motor						
	Speed	Steps	3						
	Output	High	W	230		300		350	
Air filter	Type		Resin net with mold resistance						
Sound power level	Cooling	Nom.	dBA	59	61		64		
Sound pressure level	Cooling	High	dBA	33	35	36	39	41.5	
		Nom.	dBA	30	32	34	36	38	
		Low	dBA	27	29	31	33	34	
	Heating	High	dBA	35	37		40	42	
		Nom.	dBA	32	34		37	38.5	
		Low	dBA	28	30	31	33	34	
Refrigerant	Type		R-410A						
Piping connections	Liquid	Type	Flare connection						
		OD	mm	9.52					
	Gas	Type	Flare connection						
		OD	mm	15.9					
	Drain		VP20 (I.D. 20/O.D. 26)						
	Heat insulation		Foamed polystyrene/polyethylene						
Sound absorbing insulation		Butyl Rubber							
Drain-up height			mm	625					
Control systems	Infrared remote control		BRC4C65						
	Simplified wired remote control for hotel applications		BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)						
	Wired remote control		BRC1D52 / BRC1E52A/B						

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;

## 2 Specifications

Standard Accessories : Screws; Quantity : 40;

Standard Accessories : Insulation for fitting; Quantity : 2;

Standard Accessories : Sealing pad; Quantity : 5;

Standard Accessories : Clamps; Quantity : 4;

2-3 Electrical Specifications			FXSQ15A	FXSQ20A	FXSQ25A	FXSQ32A	FXSQ40A	FXSQ50A	
Power supply	Name		VE						
	Phase		1~						
	Frequency	Hz	50/60						
	Voltage	V	220-240/220						
Voltage range	Min.	%	-10						
	Max.	%	10						
Current - 50Hz	Minimum circuit amps (MCA)		A	0.4			0.8		
	Maximum fuse amps (MFA)		A	16					
	Full load amps (FLA)	Total	A	0.3			0.6		

2-4 Electrical Specifications			FXSQ63A	FXSQ80A	FXSQ100A	FXSQ125A	FXSQ140A	
Power supply	Name		VE					
	Phase		1~					
	Frequency	Hz	50/60					
	Voltage	V	220-240/220					
Voltage range	Min.	%	-10					
	Max.	%	10					
Current - 50Hz	Minimum circuit amps (MCA)		A	0.9	1.0	1.5	2.0	1.9
	Maximum fuse amps (MFA)		A	16				
	Full load amps (FLA)	Total	A	0.7	0.8	1.2	1.6	1.5

### Notes

The sound power level is an absolute value indicating the power which a sound source generates.

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

Select wire size based on the value of MCA

Maximum allowable voltage range variation between phases is 2%.

Use a circuit breaker instead of a fuse.

MCA/MFA; MCA= 1,25 x FLA; MFA=< 4 x FLA; The next lower standard fuse rating is minimum 16 ampere.

# 3 Electrical data

## 3 - 1 Electrical Data

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**FXSQ-A**

Model	Power supply			IFM		Power input [W]		
	A	B	C	MCA	MFA	FLA	Cooling	Heating
FXSQ15A2VEB	50/60 50 50	220 230 240	MAX. 60Hz 242V MAX. 50Hz 264V MIN. 60Hz 198V MIN. 50Hz 198V	0,4	16	0,3	41	38
FXSQ20A2VEB	50/60 50 50	220 230 240	MAX. 60Hz 242V MAX. 50Hz 264V MIN. 60Hz 198V MIN. 50Hz 198V	0,4	16	0,3	41	38
FXSQ25A2VEB	50/60 50 50	220 230 240	MAX. 60Hz 242V MAX. 50Hz 264V MIN. 60Hz 198V MIN. 50Hz 198V	0,4	16	0,3	41	38
FXSQ32A2VEB	50/60 50 50	220 230 240	MAX. 60Hz 242V MAX. 50Hz 264V MIN. 60Hz 198V MIN. 50Hz 198V	0,4	16	0,3	45	42
FXSQ40A2VEB	50/60 50 50	220 230 240	MAX. 60Hz 242V MAX. 50Hz 264V MIN. 60Hz 198V MIN. 50Hz 198V	0,8	16	0,6	92	89,0
FXSQ50A2VEB	50/60 50 50	220 230 240	MAX. 60Hz 242V MAX. 50Hz 264V MIN. 60Hz 198V MIN. 50Hz 198V	0,8	16	0,6	95	92
FXSQ63A2VEB	50/60 50 50	220 230 240	MAX. 60Hz 242V MAX. 50Hz 264V MIN. 60Hz 198V MIN. 50Hz 198V	0,9	16	0,7	95	92
FXSQ80A2VEB	50/60 50 50	220 230 240	MAX. 60Hz 242V MAX. 50Hz 264V MIN. 60Hz 198V MIN. 50Hz 198V	1,0	16	0,8	121	118
FXSQ100A2VEB	50/60 50 50	220 230 240	MAX. 60Hz 242V MAX. 50Hz 264V MIN. 60Hz 198V MIN. 50Hz 198V	1,5	16	1,2	157	154,0
FXSQ125A2VEB	50/60 50 50	220 230 240	MAX. 60Hz 242V MAX. 50Hz 264V MIN. 60Hz 198V MIN. 50Hz 198V	2,0	16	1,6	214	211
FXSQ140A2VEB	50/60 50 50	220 230 240	MAX. 60Hz 242V MAX. 50Hz 264V MIN. 60Hz 198V MIN. 50Hz 198V	1,9	16	1,5	243	240

**Notes**

- 1 Voltage range  
The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.
  - 2 Select the wire size according to the MCA.
  - 3 The maximum allowable voltage that is unbalanced between phases is 2%.
  - 4 Use a circuit breaker instead of a fuse.
- MCA/MFA  
MCA=1.25 x FLA; MFA ≈ 4 x FLA
- 5 The next lower standard fuse rating is minimum 16 ampere.

**Symbols**

- A Hz
- B Voltage
- C Voltage range
- MCA Minimum Circuit Ampere (A)
- MFA Maximum Fuse Ampere (A)
- IFM Indoor fan motor
- FLA Full Load Ampere (A)

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# 4 Safety device settings

## 4 - 1 Safety Device Settings

FXSQ-A

Safety devices		15	20	25	32	40	50	63	80	100	125	140
FXSQ	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	---	---	---	---	---	---	---	---	---	---
	Drain pump fuse	* C	145	145	145	145	145	145	145	145	145	145

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# 5 Options

## 5 - 1 Options

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### FXSQ-A

#### Discharge related

Description	Option name	FXSQ15-32A	FXSQ40-50A	FXSQ63-80A	FXSQ100-125A	FXSQ140A
Air inlet and discharge related	Air discharge adapter for round duct	KDAP25A36A	x			
		KDAP25A56A		x		
		KDAP25A71A			x	
		KDAP25A140A				x

#### Operation control

Description	Option name	FXSQ15-32A	FXSQ40-50A	FXSQ63-80A	FXSQ100-125A	FXSQ140A
Wired remote controller	BRC1D528	x	x	x	x	x
	BRC1E52A/B	x	x	x	x	x
Central remote controller	DSC302CA51	x	x	x	x	x
Unified ON/OFF controller	DSC301BA51	x	x	x	x	x
Touch controller	DSC601A51	x	x	x	x	x
Schedule timer	DST301BA51	x	x	x	x	x
Adapter for wiring (interlock for fresh air intake fan)	KRP1BA59					
Wiring adapter for electrical appendices	KRP4A52	x (*4)	x (*4)	x (*4)	x (*4)	x (*4)
Wiring adapter for electrical appendices (*2)	KRP2A51	x (*4)	x (*4)	x (*4)	x (*4)	x (*4)
Interface adapter for Sky Air series	DTA112BA51					
Option PCB for external electrical heater, humidifier and/or hour meter	EKRP1B2A	x (*1,2,3)	x (*1,2,3)	x (*1,2,3)	x (*1,2,3)	x (*1,2,3)
Infrared remote controller	H/P	BRC4C65	x	x	x	x
	C/O	BRC4C66	x	x	x	x
Simplified remote controller (Hotel)	BRC2E52C7	x (*6)	x (*6)	x (*6)	x (*6)	x (*6)
Remote controller for hotel use	BRC2E52C7	x (*6)	x (*6)	x (*6)	x (*6)	x (*6)
Remote sensor	KRCS01-4B	x	x	x	x	x
Electric box with earth terminal - 3 blocks	KIB311A	x	x	x	x	x
Electric box with earth terminal - 2 blocks	KIB212A	x	x	x	x	x
Electric box with earth terminal	KIB411A	x	x	x	x	x
External adaptor for outdoor unit (installation on indoor unit)	DTA104A61	x	x	x	x	x
Option PCB for Multi tenant	DTA114A61	x	x	x	x	x
Installation box for adapter PCB	KRP1BA101	x	x	x	x	x
	KRP1B101	x	x	x	x	x
Digital input adaptor	BRP7A51	x (*3,5)	x (*3,5)	x (*3,5)	x (*3,5)	x (*3,5)

(\*1) Electrical heater and humidifier are field supply. These parts should not be installed inside the equipment. (Refer to installation manual EKRP1B2A).

(\*2) If installing an electrical heater, an option PCB for external electrical heater (EKRP1B2) for each indoor unit is required.

(\*3) Mounting plate KRP4A59 is required for these options. Maximum 2 option PCBs can be mounted.

(\*4) This option needs to be installed together with installation box KRP1B101 / KRP1BA101.

(\*5) Only possible in combination with simplified remote control BRC2/E52C7.

(\*6) Included languages are:

- Language pack 1: English, German, French, Dutch, Spanish, Italian and Portuguese.
- With PC cable - EKPCAB3 - in combination with the Updater PC software, you can additionally change the language to:
  - Language pack 2: English, Bulgarian, Croatian, Czech, Hungarian, Romanian and Slovenian.
  - Language pack 3: English, Greek, Polish, Russian, Serbian, Slovakian and Turkish.

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# 6 Capacity tables

## 6 - 1 Cooling Capacity Tables

### FXSQ-A

FXSQ 50Hz	Unit size	Outdoor °CDB	14.0 WB		16.0 WB		18.0 WB		19.0 WB		20.0 WB		22.0 WB		24.0 WB	
			20.0 DB		23.0 DB		26.0 DB		27.0 DB		28.0 DB		30.0 DB		32.0 DB	
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
	15	35.0	1.1	0.9	1.4	1.1	1.6	1.2	1.7	1.2	1.7	1.2	1.8	1.2	1.8	1.2
	20	35.0	1.5	1.2	1.8	1.4	2.1	1.6	2.2	1.6	2.2	1.6	2.3	1.5	2.3	1.5
	25	35.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	2.8	2.0	2.9	1.9	3.0	1.9
	32	35.0	2.4	2.0	2.9	2.3	3.4	2.6	3.6	2.6	3.6	2.6	3.7	2.5	3.8	2.4
	40	35.0	3.0	2.5	3.6	2.9	4.2	3.3	4.5	3.3	4.6	3.3	4.7	3.2	4.8	3.1
	50	35.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	5.7	4.1	5.8	3.9	5.9	3.8
	63	35.0	4.8	3.9	5.7	4.5	6.6	5.1	7.1	5.2	7.2	5.1	7.4	4.9	7.5	4.8
	80	35.0	6.1	4.9	7.2	5.7	8.4	6.3	9.0	6.5	9.1	6.4	9.3	6.2	9.5	5.9
	100	35.0	7.6	6.3	9.0	7.2	10.5	8.1	11.2	8.3	11.3	8.2	11.6	7.9	11.9	7.7
	125	35.0	9.4	7.8	11.3	8.9	13.1	10.0	14.0	10.2	14.2	10.0	14.5	9.7	14.9	9.4
	140	35.0	10.8	8.9	12.9	10.2	15.0	11.4	16.0	11.7	16.2	11.5	16.6	11.2	17.0	10.8

TC: Total capacity :kW  
 SHC: Sensible heating capacity :kW

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# 6 Capacity tables

## 6 - 2 Heating Capacity Tables

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### FXSQ-A

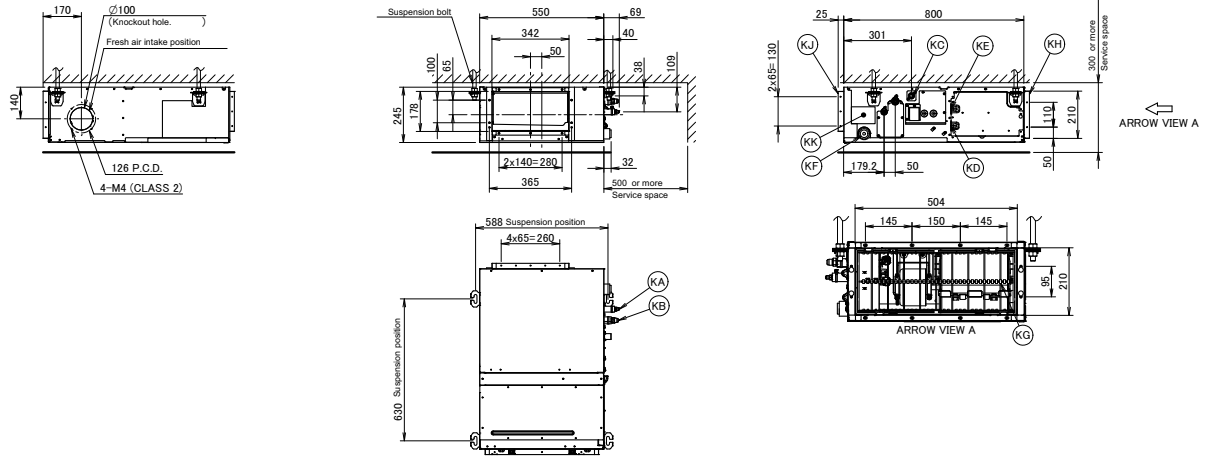
Unit size	Outdoor air temp.		Indoor air temp.: °CDB					
	°CDB	°CWB	16.0	18.0	20.0	21.0	22.0	24.0
			kW	kW	kW	kW	kW	kW
15	7.0	6.0	2.0	2.0	1.9	1.8	1.8	1.7
20	7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
25	7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
32	7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
40	7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
50	7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
63	7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0
80	7.0	6.0	10.5	10.5	10.0	9.7	9.4	8.7
100	7.0	6.0	13.1	13.1	12.5	12.1	11.7	10.9
125	7.0	6.0	16.8	16.8	16.0	15.5	15.0	13.9
140	7.0	6.0	18.9	18.9	18.0	17.4	16.8	15.7

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# 7 Dimensional drawings

## 7 - 1 Dimensional Drawings

### FXSQ15-32A

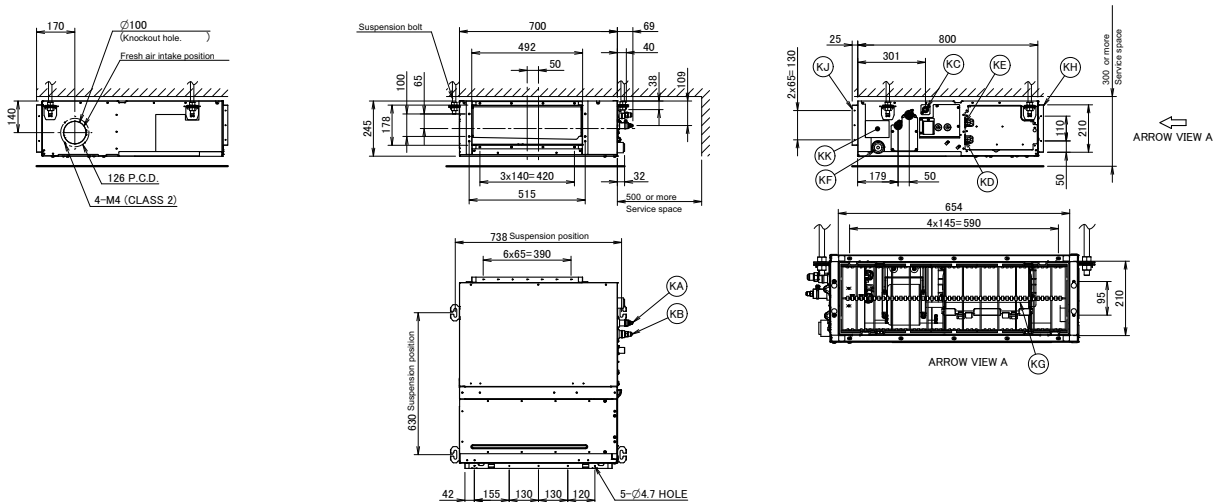


Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side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

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### FXSQ40-50A



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.

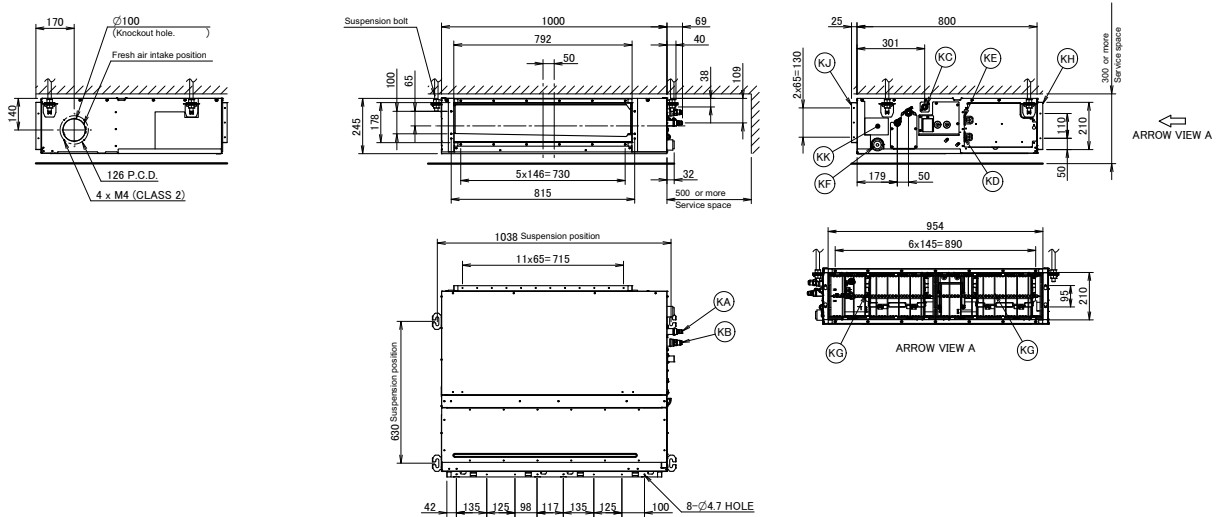
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# 7 Dimensional drawings

## 7 - 1 Dimensional Drawings

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### FXSQ63-80A

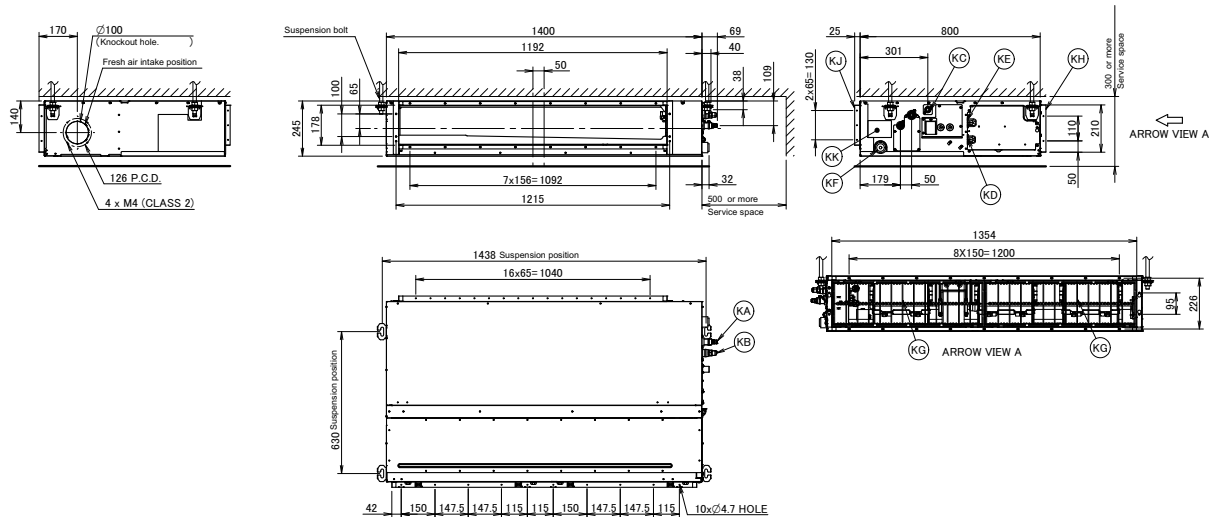


Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side	/
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.

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### FXSQ100-125A



Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	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	/

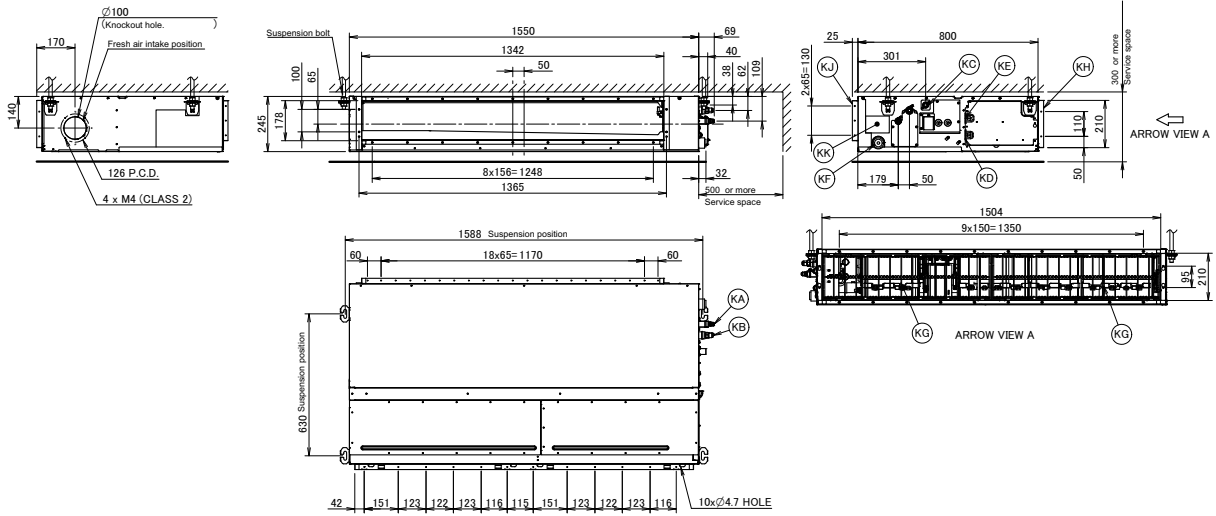
Notes  
 1. When installing optional accessories, refer to their respective documentation.  
 2. The ceiling depth varies according to the documentation of the specific system.

3D094917A

# 7 Dimensional drawings

## 7 - 1 Dimensional Drawings

FXSQ140A



Item	Name	Description
KA	Liquid pipe connection port	$\varnothing 9.52$ flared connection
KB	Gas pipe connection port	$\varnothing 15.90$ flared connection
KC	Drain pipe connection	VP20 (OD 026, ID 020)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD 026, ID 020)
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.

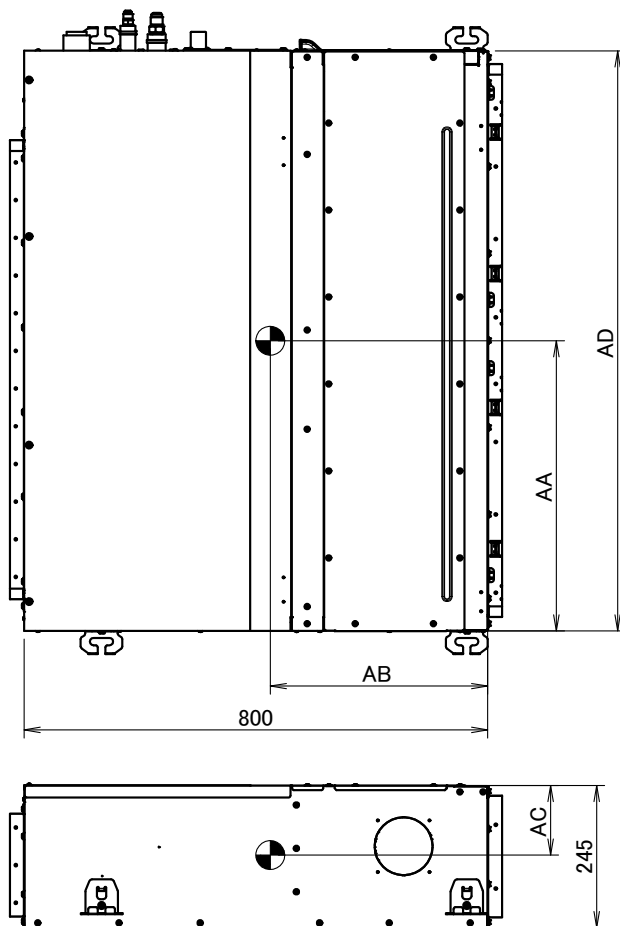
3D094928A

# 8 Centre of gravity

## 8 - 1 Centre of Gravity

### FXSQ-A

8



Applicable models	AA	AB	AC	AD
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

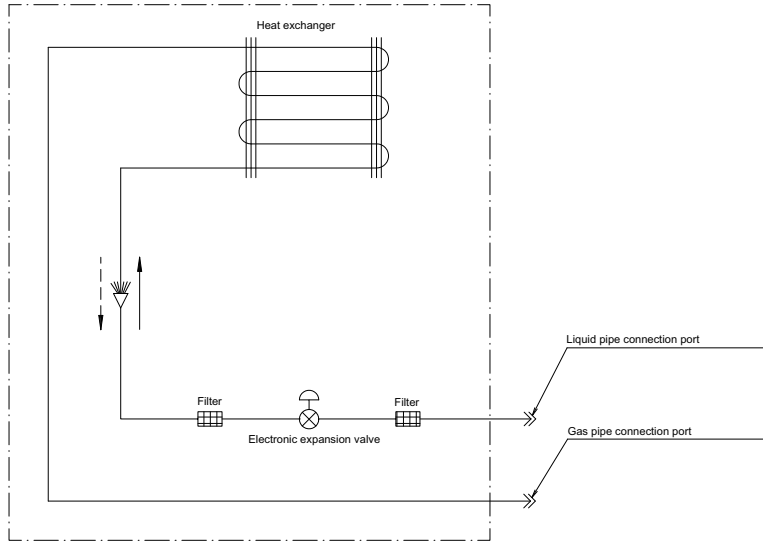
4D096407A



# 9 Piping diagrams

## 9 - 1 Piping Diagrams

FXSQ-A



Refrigerant flow  
 Cooling ———→  
 Heating - - - ->

Piping connections Ø

Model	Gas	Liquid
FXS015/20/25/32/40/50	Ø 12.70	Ø 6.35
FXS063/80/100/125/140	Ø 15.90	Ø 9.52

3D090269A

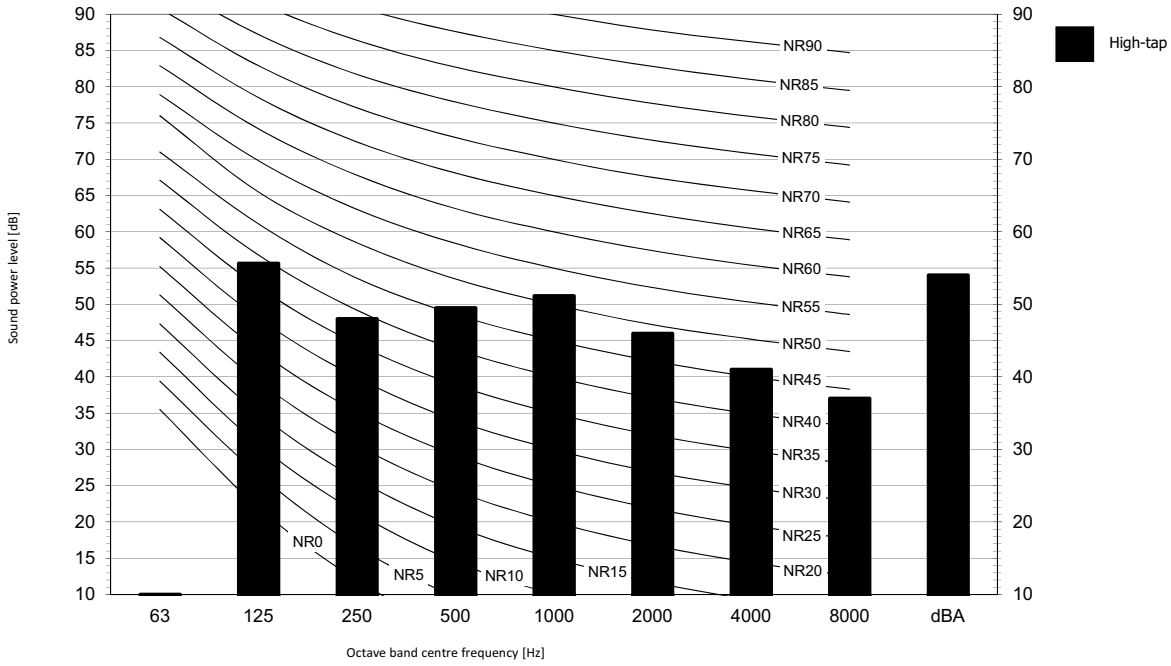


# 11 Sound data

## 11 - 1 Sound Power Spectrum

### FXSQ15A

Cooling mode



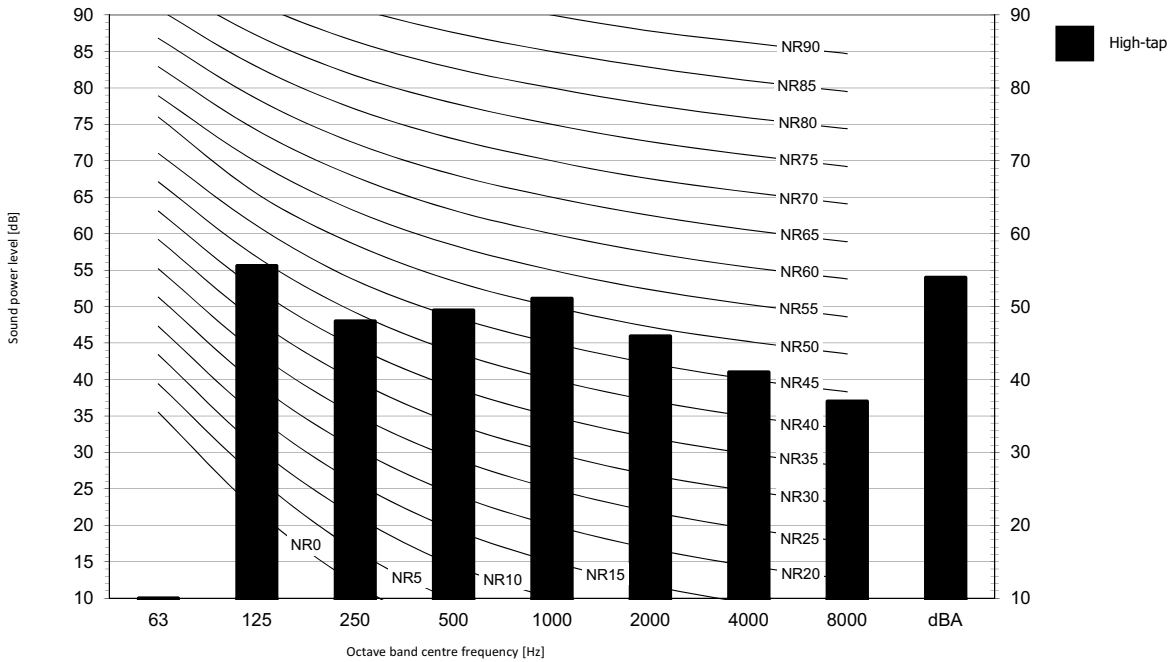
Notes

- 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

3D095590

### FXSQ20-25A

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

3D095591

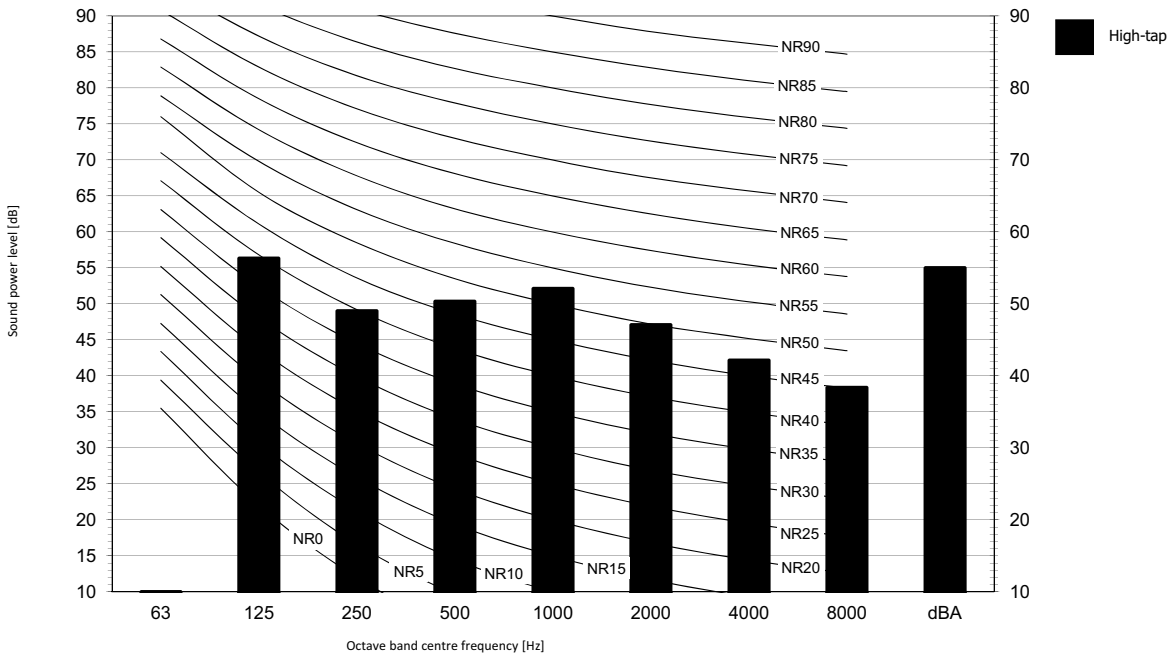
# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

### FXSQ32A

Cooling mode



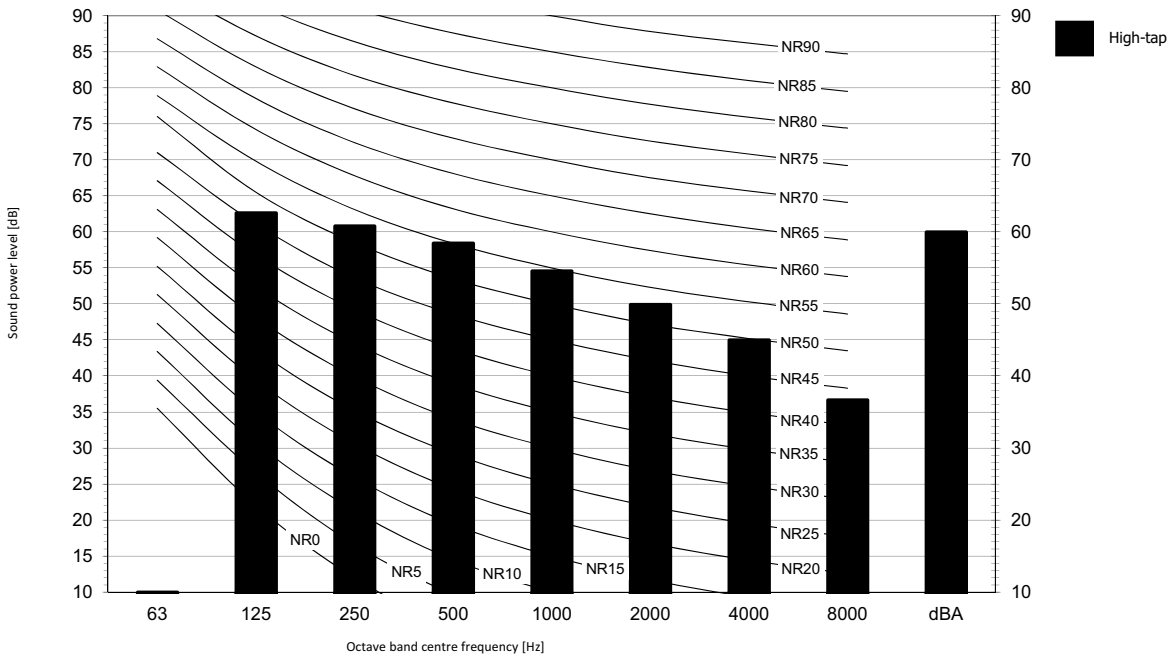
Notes

- 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

3D095592

### FXSQ40-50A

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

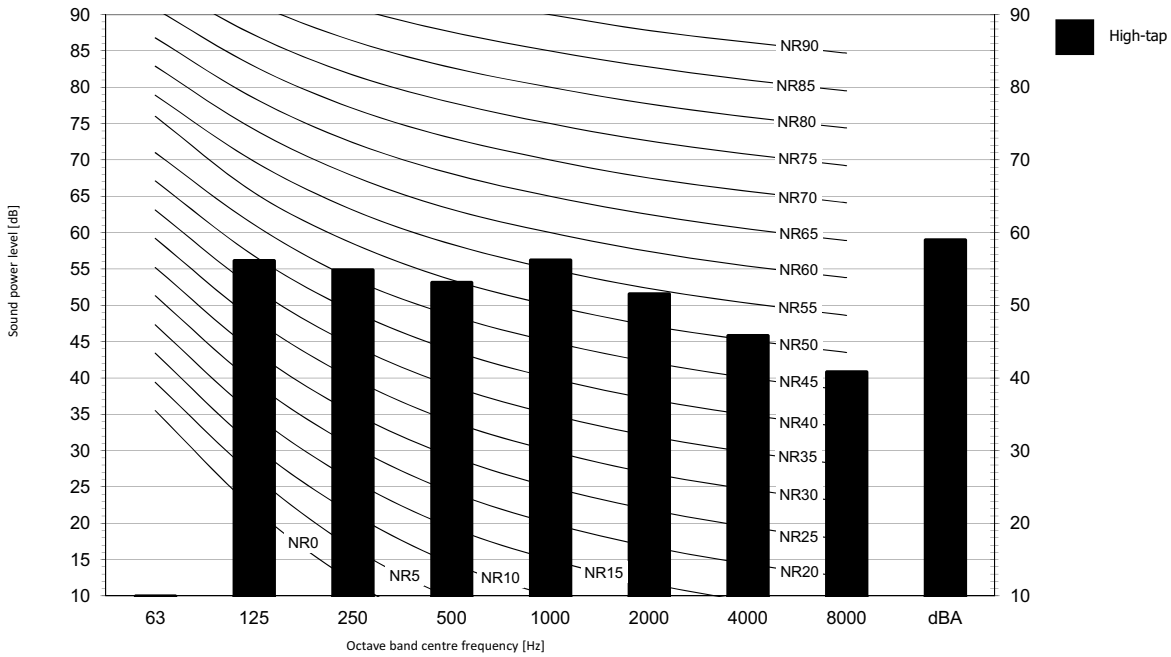
3D095579

# 11 Sound data

## 11 - 1 Sound Power Spectrum

### FXSQ63A

Cooling mode



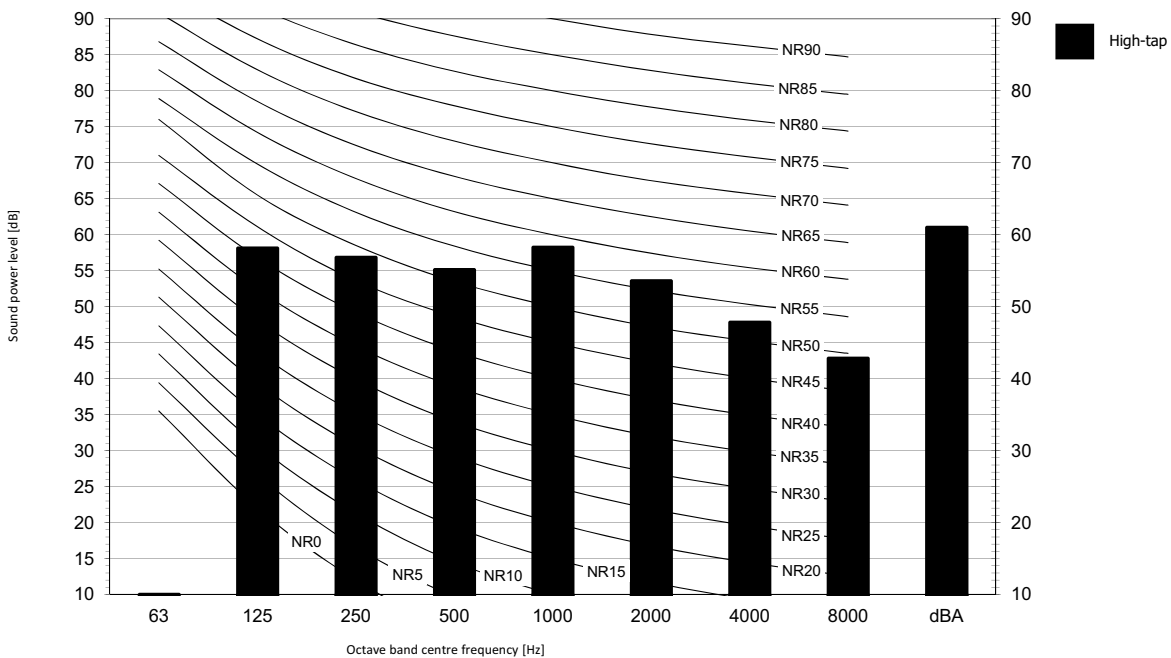
Notes

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

3D095593

### FXSQ80A

Cooling mode



Notes

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

3D095594

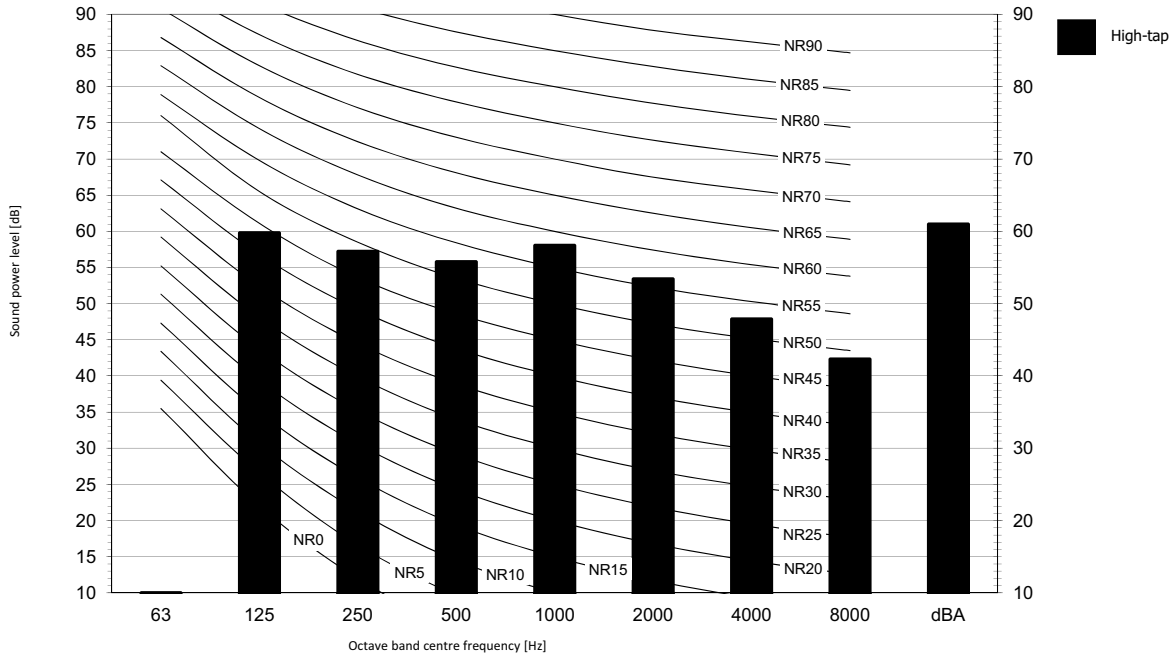
# 11 Sound data

## 11 - 1 Sound Power Spectrum

11

### FXSQ100A

Cooling mode



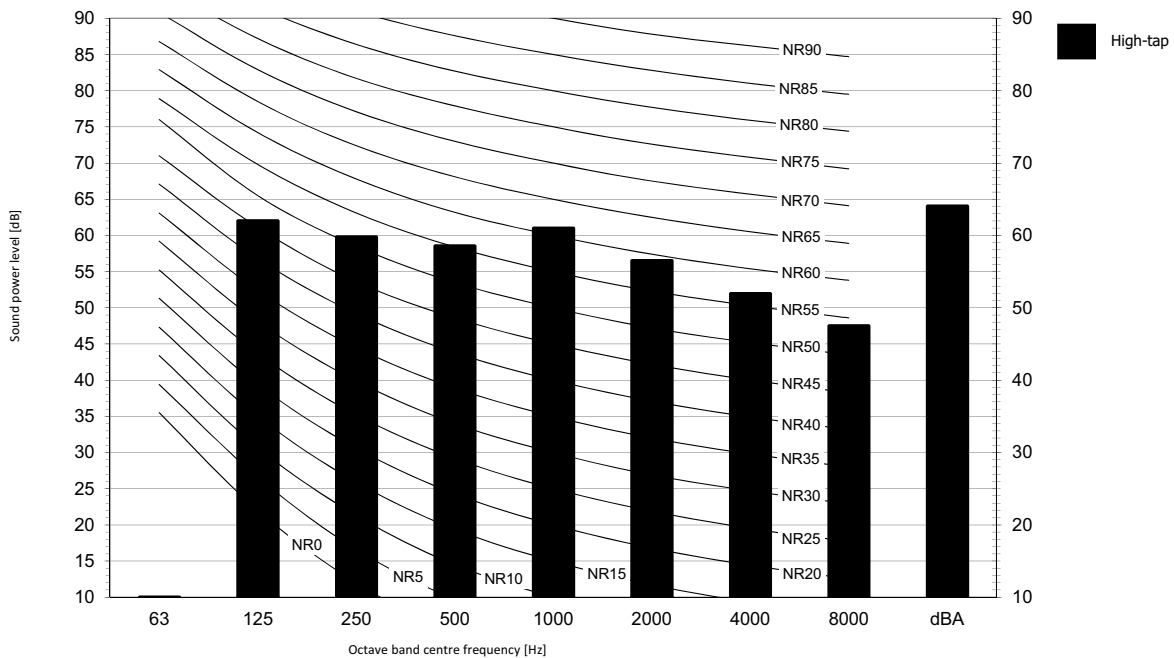
Notes

- 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

3D095596

### FXSQ125A

Cooling mode



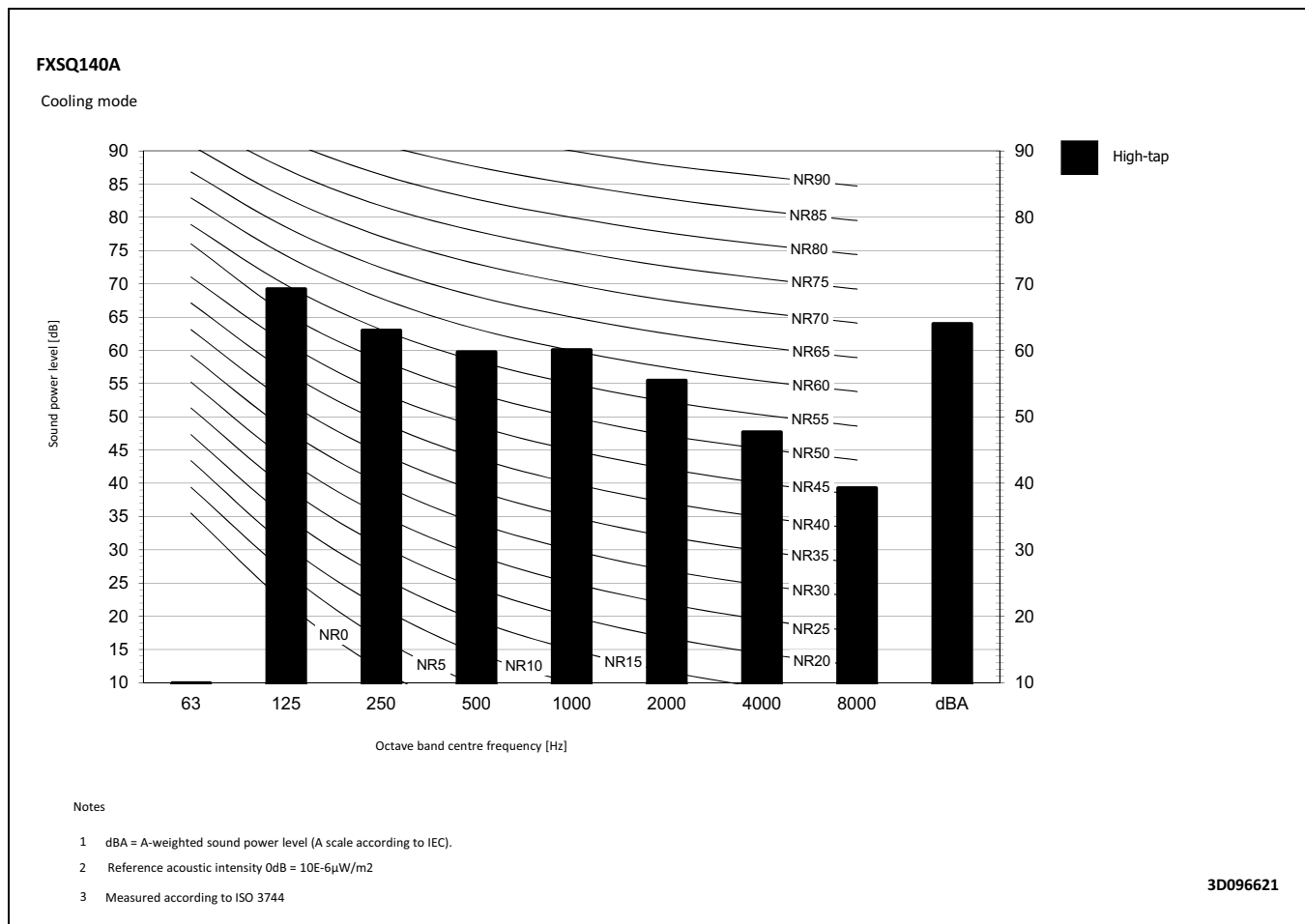
Notes

- 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

3D095597

# 11 Sound data

## 11 - 1 Sound Power Spectrum

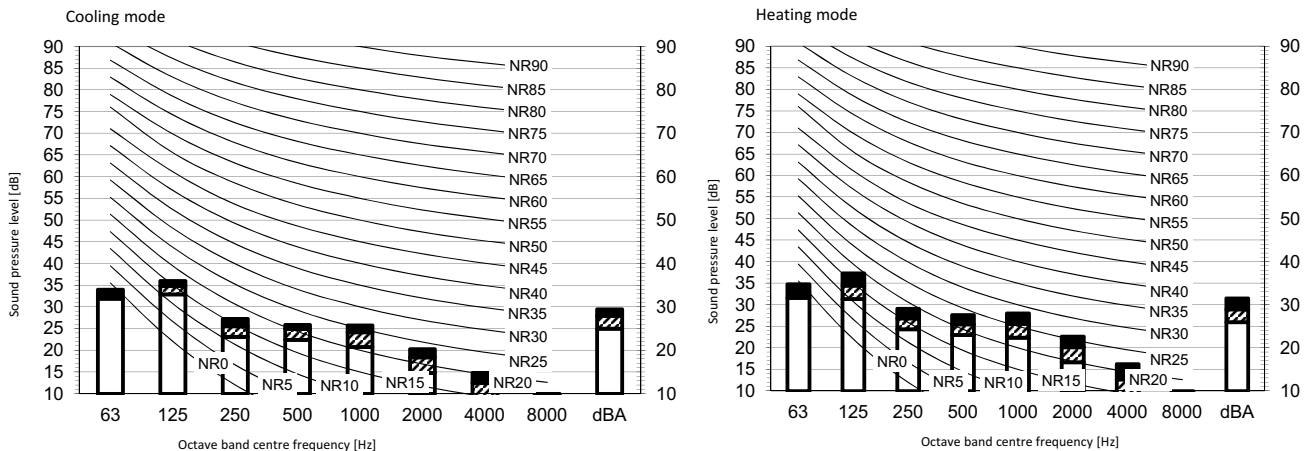


# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

11

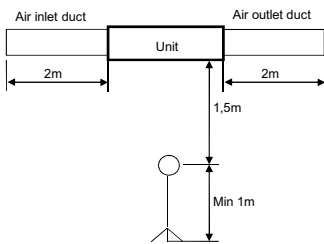
### FXSQ15A



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



Location of microphone

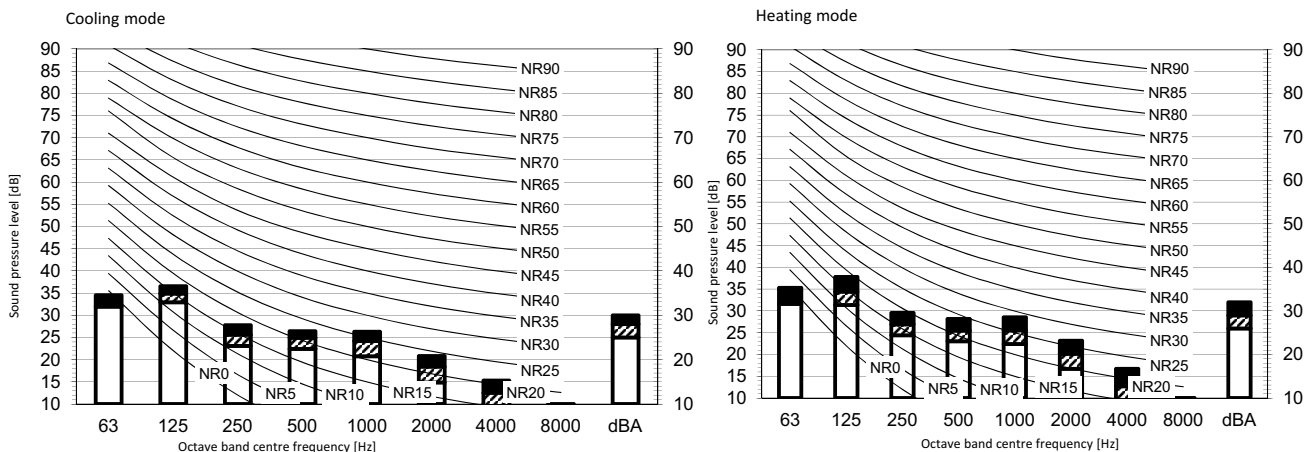


Notes

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

3D095568A

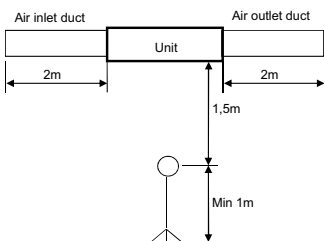
### FXSQ20-25A



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



Location of microphone



Notes

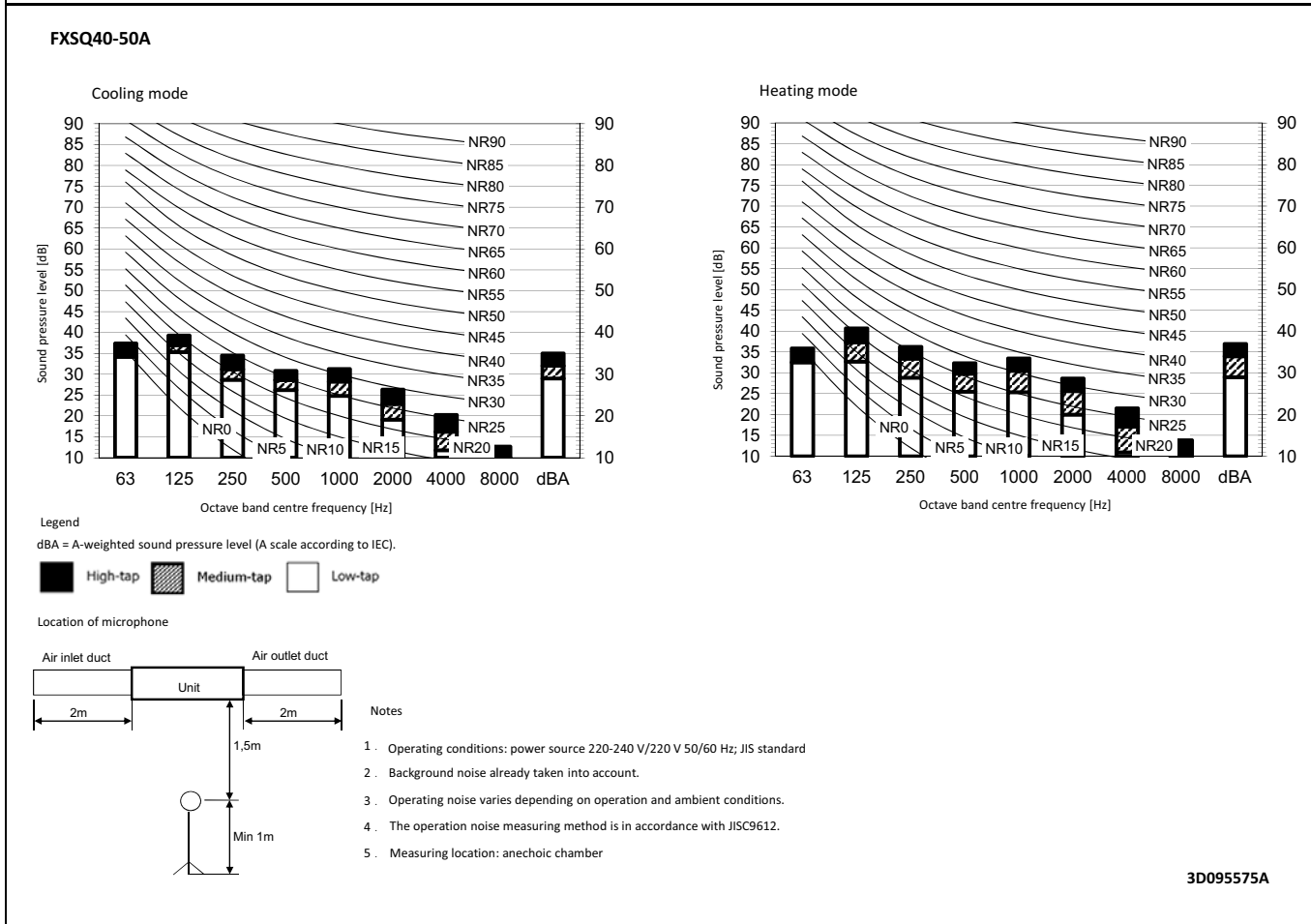
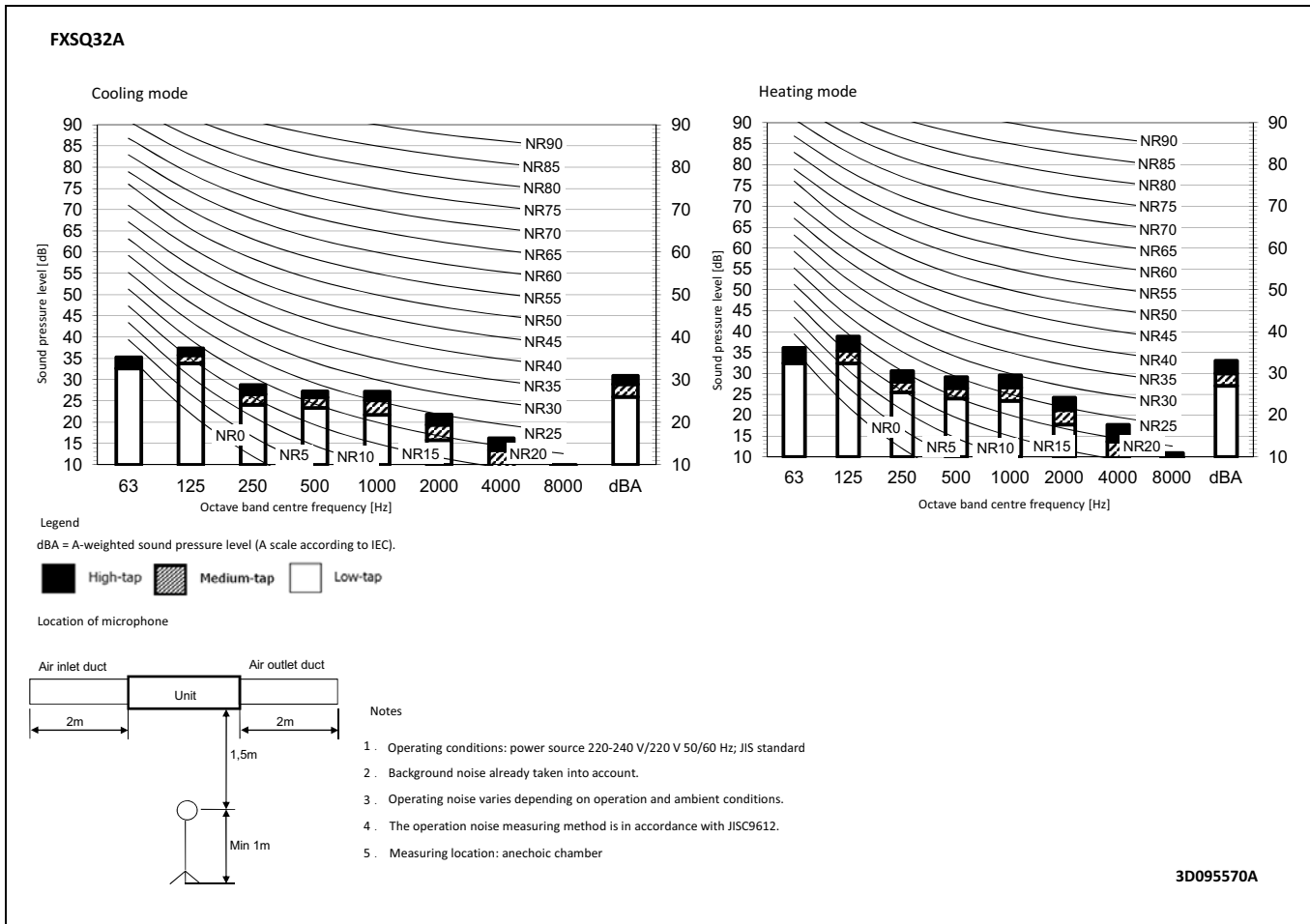
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D095569A



# 11 Sound data

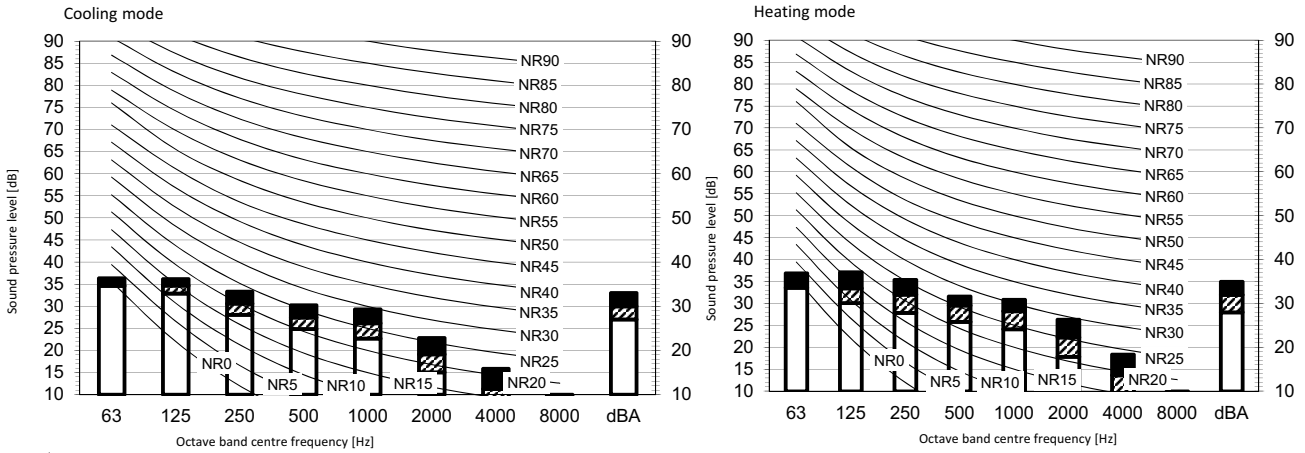
## 11 - 2 Sound Pressure Spectrum



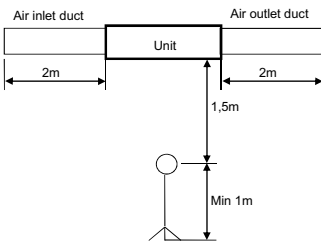
# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

### FXSQ63A



#### Location of microphone

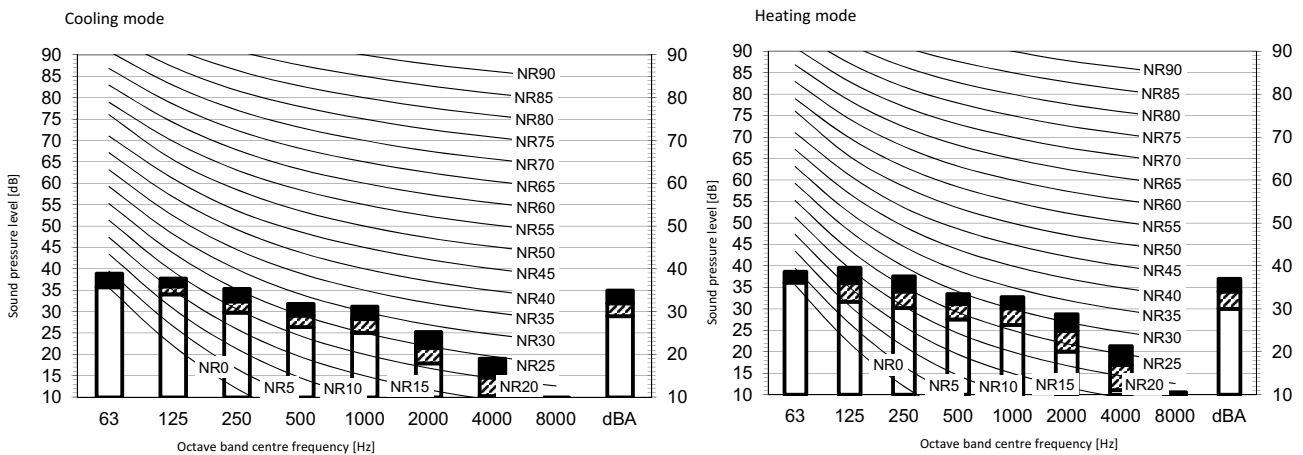


#### Notes

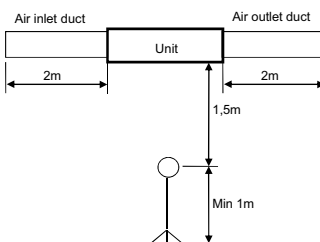
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D095571A

### FXSQ80A



#### Location of microphone



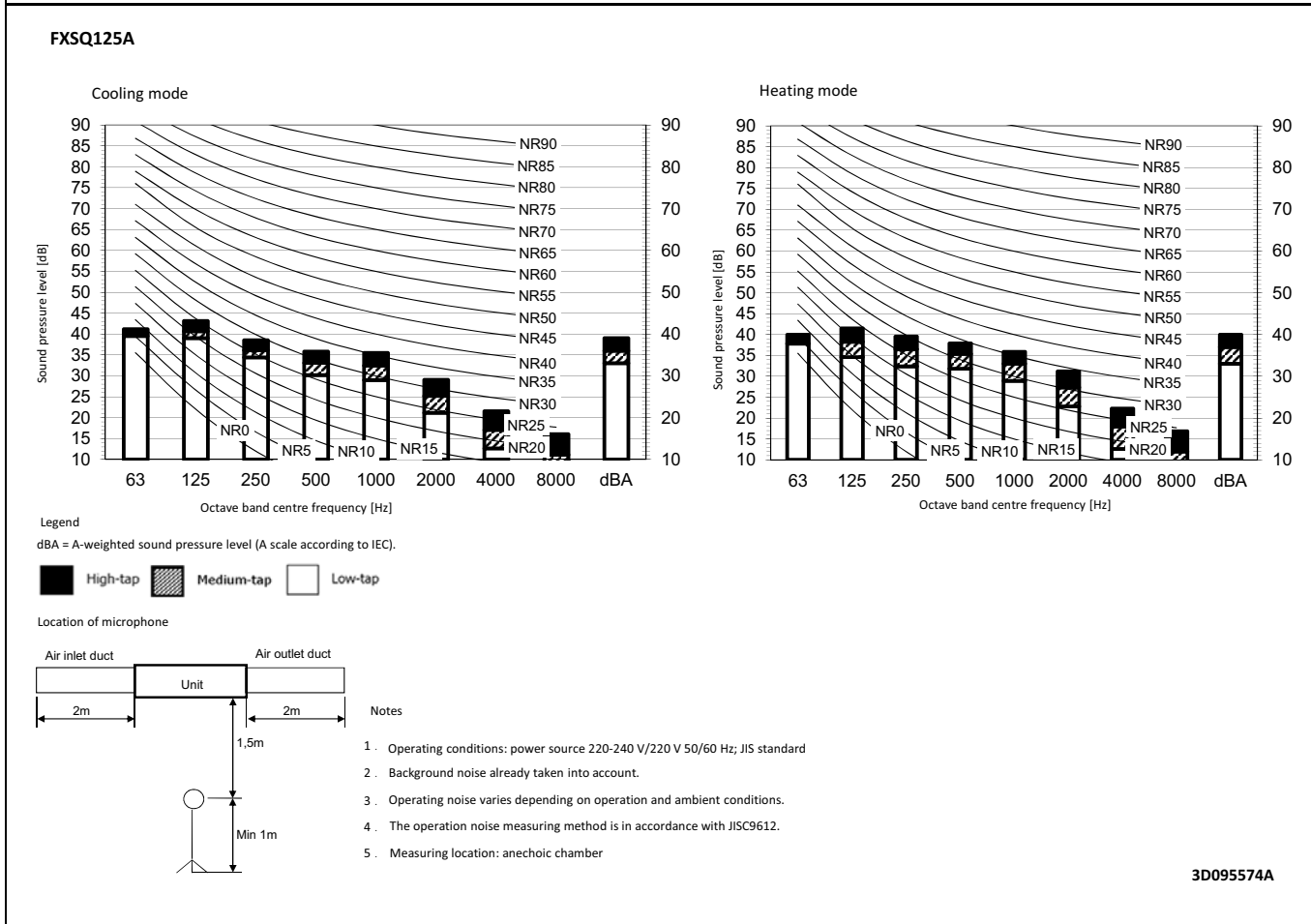
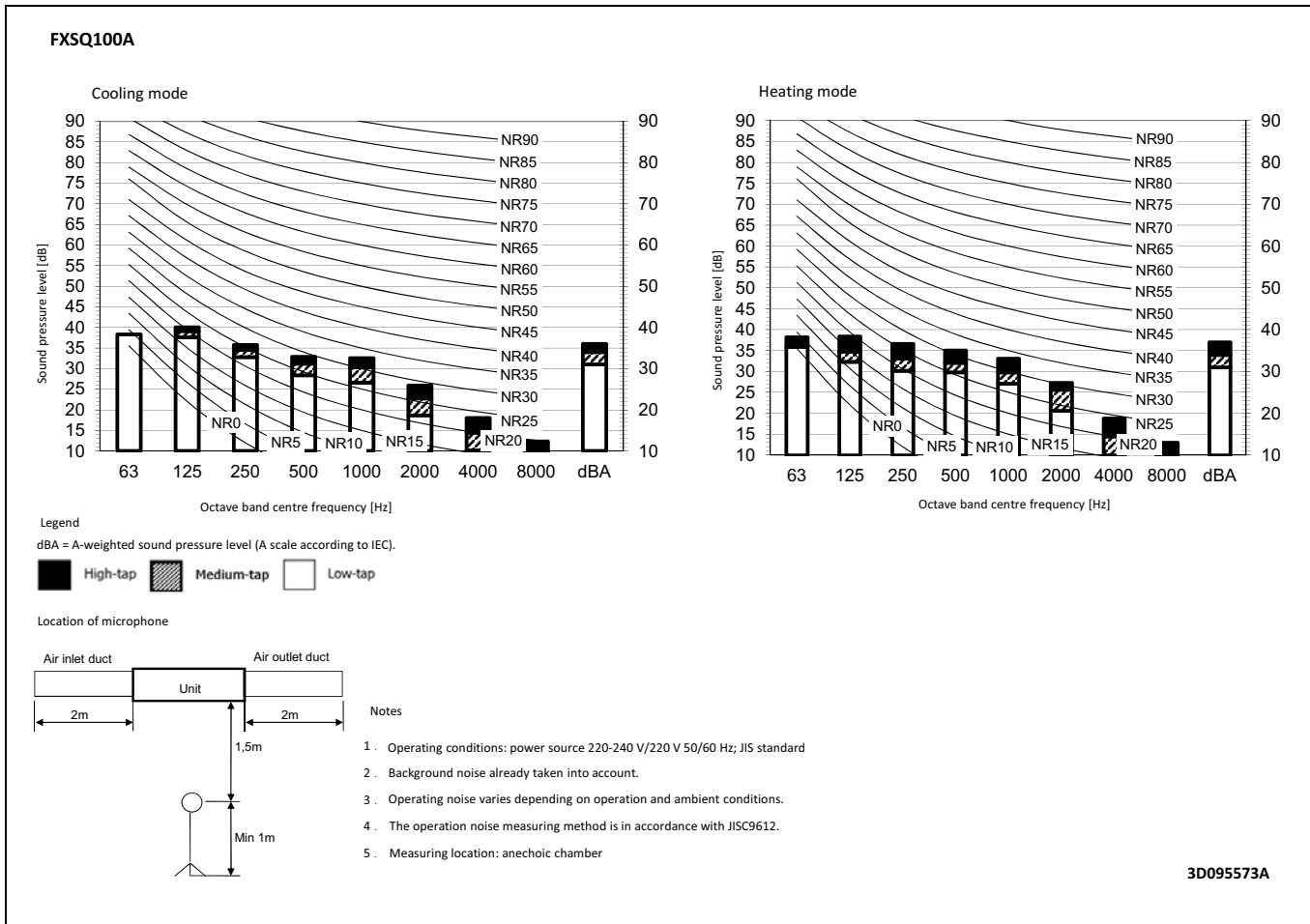
#### Notes

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

3D095572A

# 11 Sound data

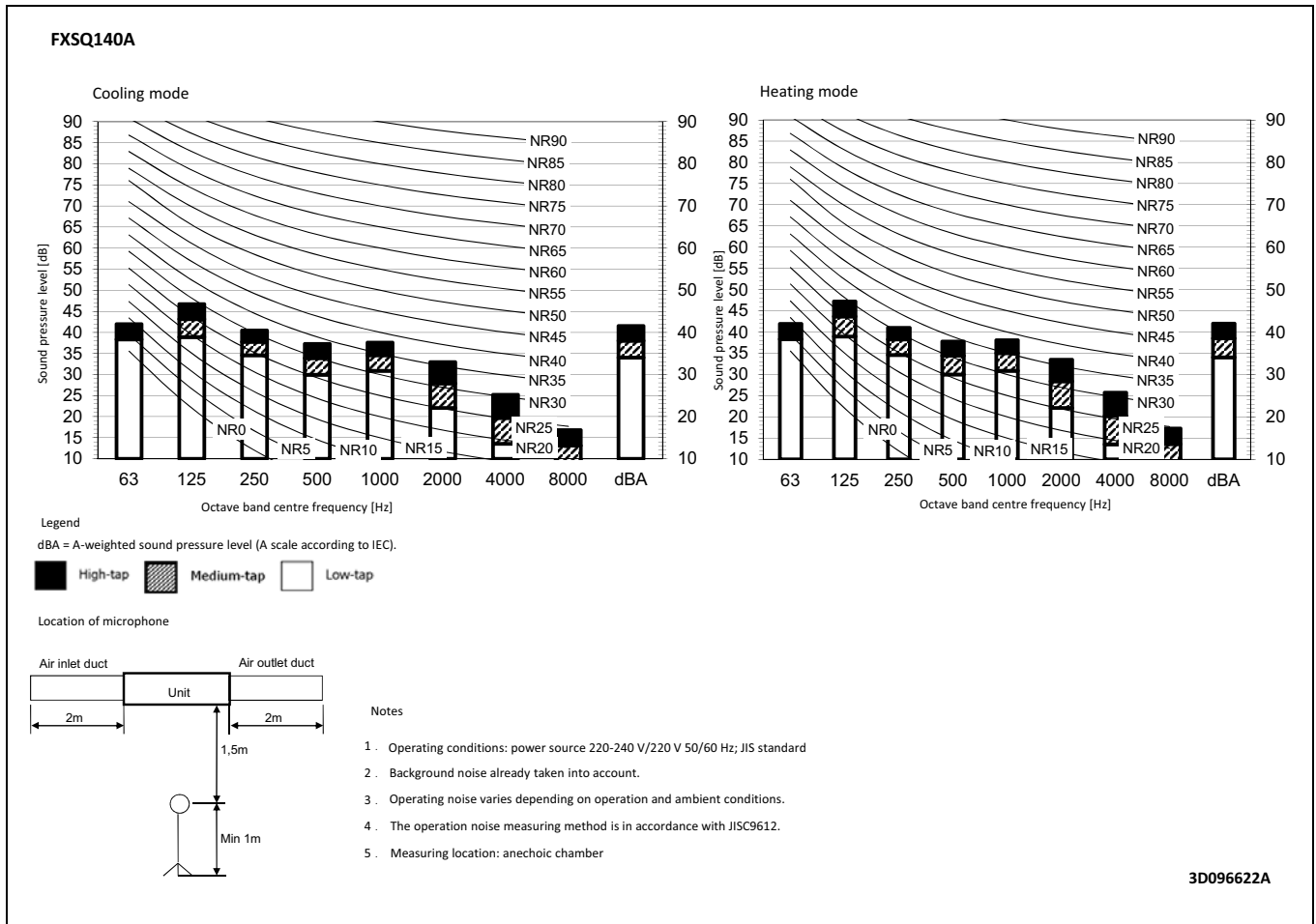
## 11 - 2 Sound Pressure Spectrum



# 11 Sound data

## 11 - 2 Sound Pressure Spectrum

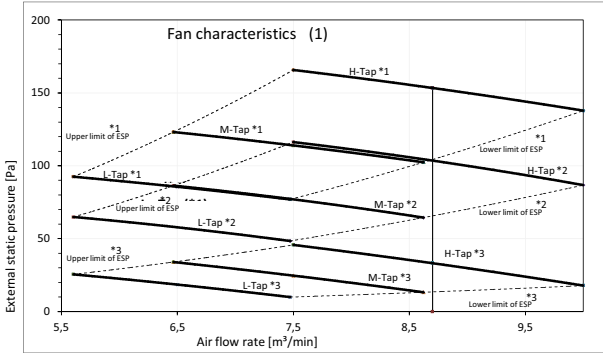
11



# 12 Fan characteristics

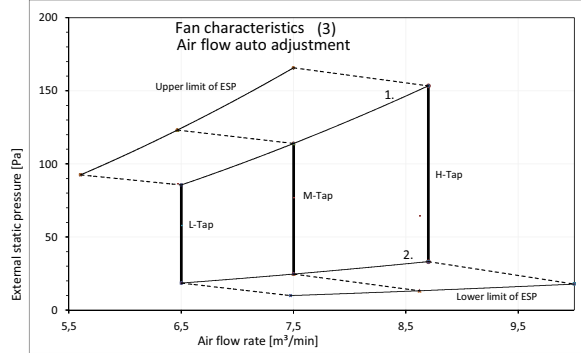
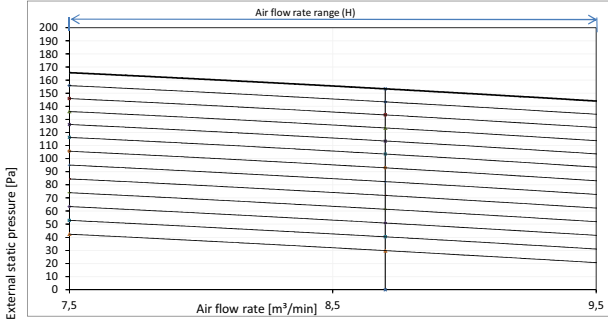
## 12 - 1 Fan Characteristics

### FXSQ15A



Mark	ESP [Pa]
*1	MAX 150
*2	100
*3	STD 50

**Fan characteristics (2)**  
Field setting with remote control

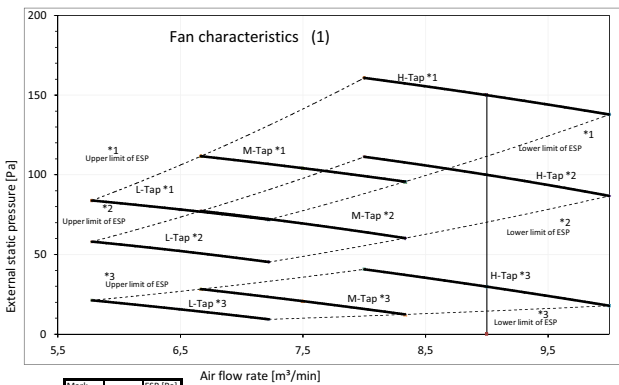


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

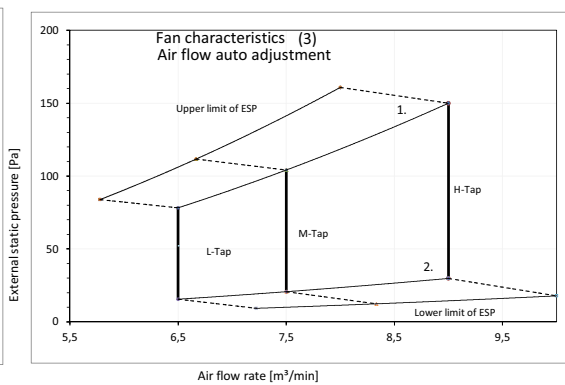
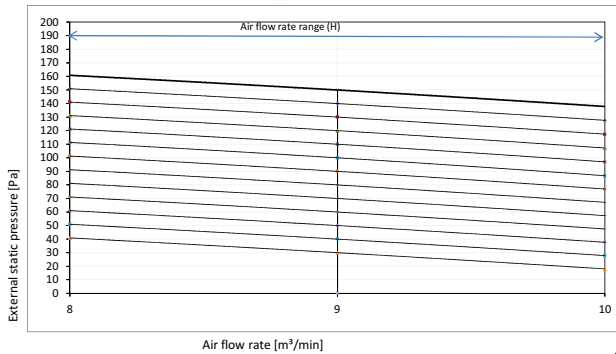
3D096999

### FXSQ20-25A



Mark	ESP [Pa]
*1	MAX 150
*2	100
*3	STD 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

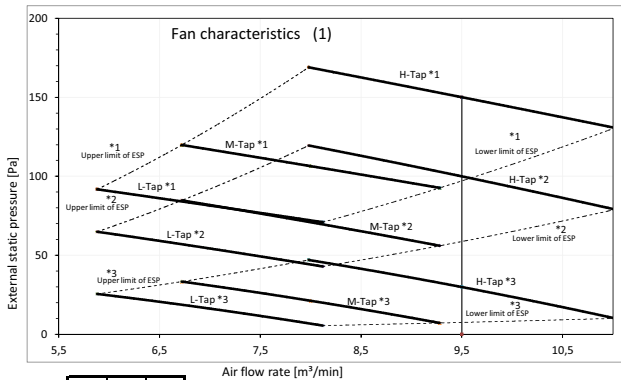
3D095680A

# 12 Fan characteristics

## 12 - 1 Fan Characteristics

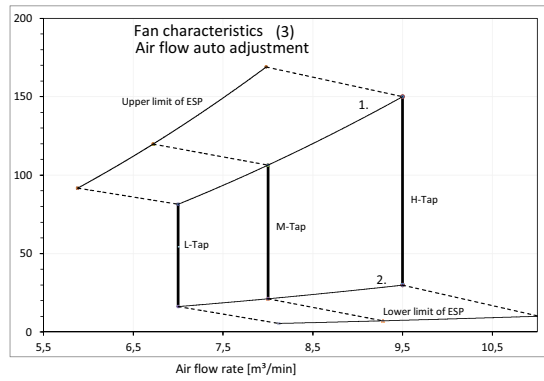
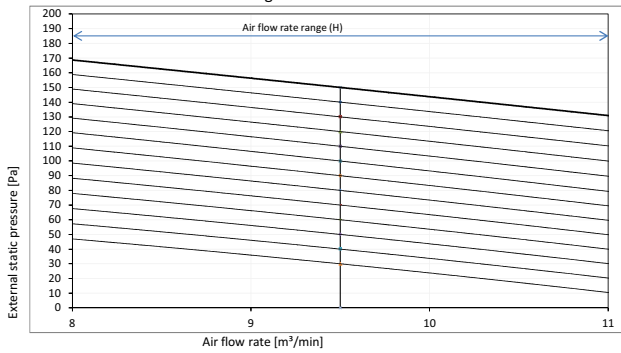
12

### FXSQ32A



Mark		ESP [Pa]
*1	MAX	150
*2		100
*3	STD	30

Fan characteristics (2)  
Field setting with remote control

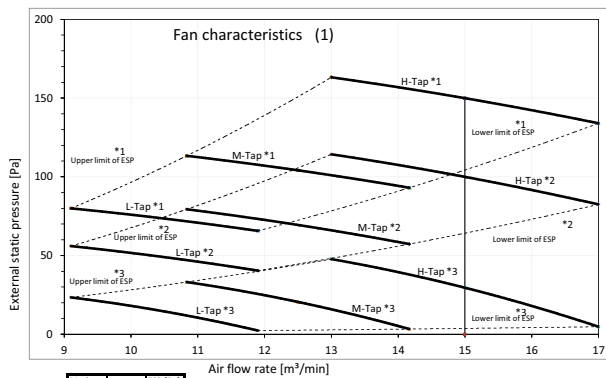


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

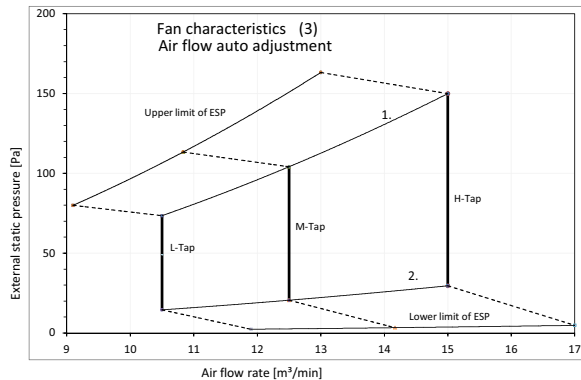
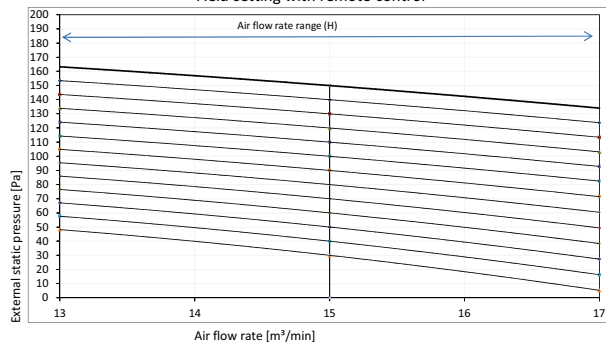
3D095681A

### FXSQ40A



Mark		ESP [Pa]
*1	MAX	150
*2		100
*3	STD	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

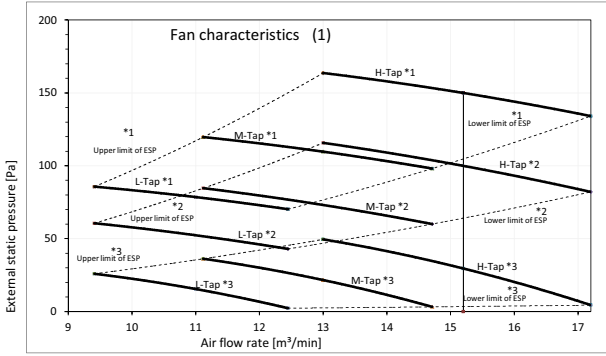
Notes  
1. The fan characteristics shown are in "fan only" mode.  
2. ESP: External Static Pressure

3D095682A

# 12 Fan characteristics

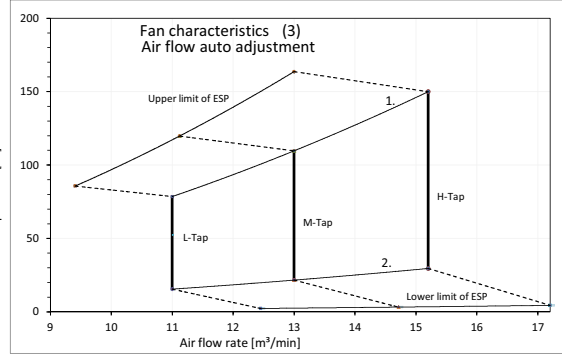
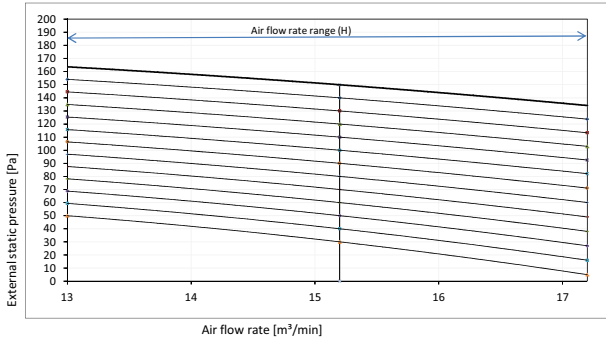
## 12 - 1 Fan Characteristics

### FXSQ50A



Mark	ESP [Pa]
*1	MAX 150
*2	100
*3	STD 30

Fan characteristics (2)  
Field setting with remote control

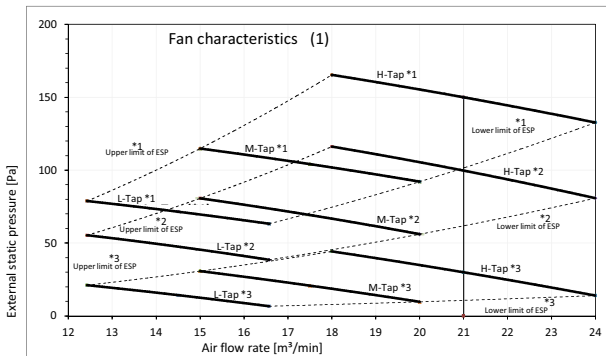


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

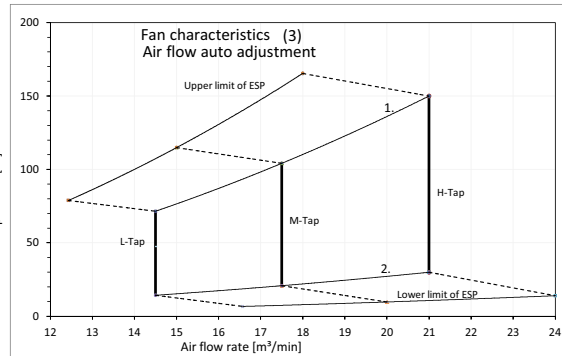
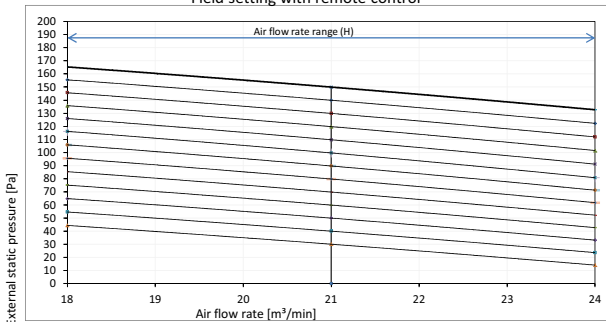
3D095688A

### FXSQ63A



Mark	ESP [Pa]
*1	MAX 150
*2	100
*3	STD 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

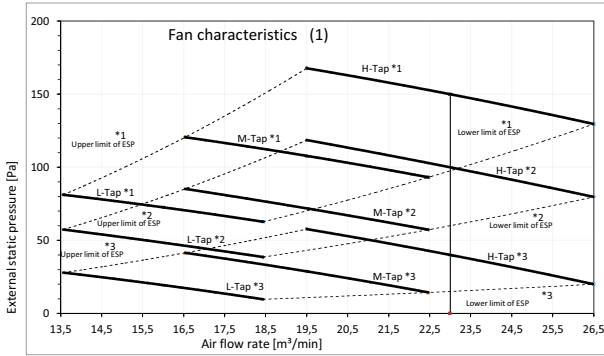
Notes  
1. The fan characteristics shown are in "fan only" mode.  
2. ESP: External Static Pressure

3D095690A

# 12 Fan characteristics

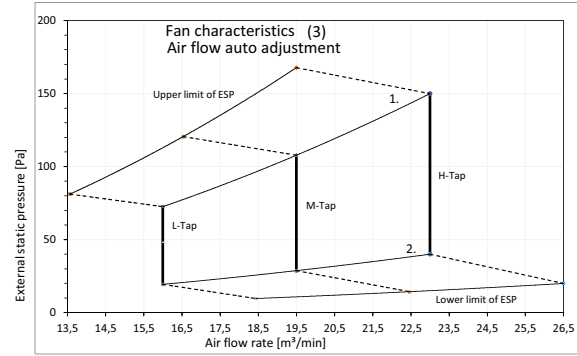
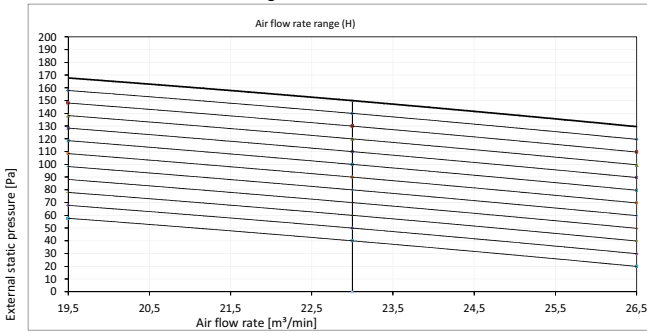
## 12 - 1 Fan Characteristics

### FXSQ80A



Mark		ESP [Pa]
*1	MAX	150
*2		100
*3	STD	40

Fan characteristics (2)  
Field setting with remote control

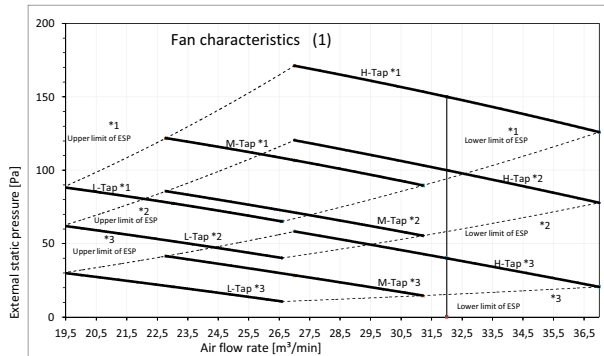


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

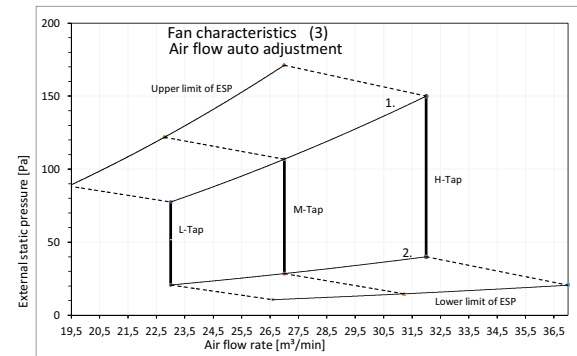
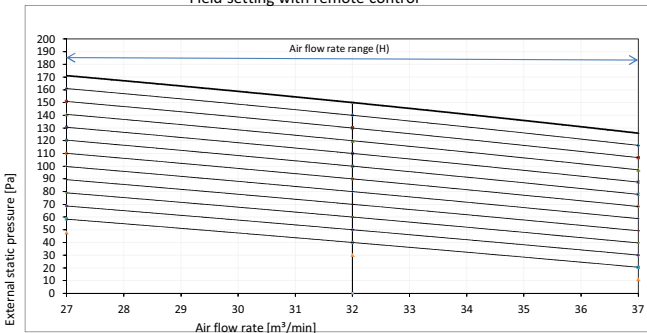
3D095692A

### FXSQ100A



Mark		ESP [Pa]
*1	MAX	150
*2		100
*3	STD	40

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

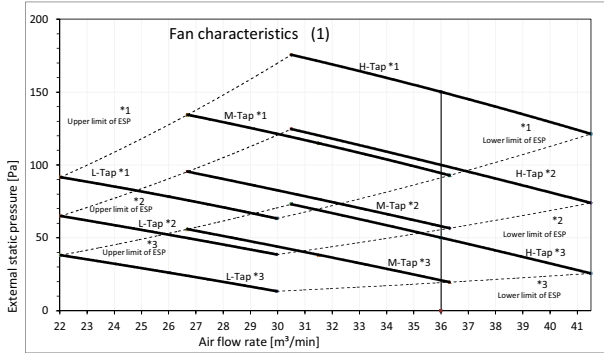
3D095696A



# 12 Fan characteristics

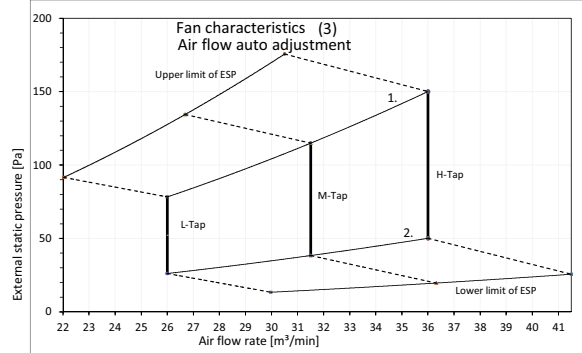
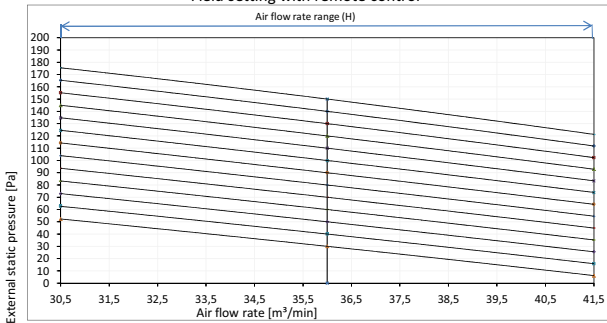
## 12 - 1 Fan Characteristics

### FXSQ125A



Mark	ESP [Pa]
*1	MAX 150
*2	STD 100
*3	MIN 50

Fan characteristics (2)  
Field setting with remote control

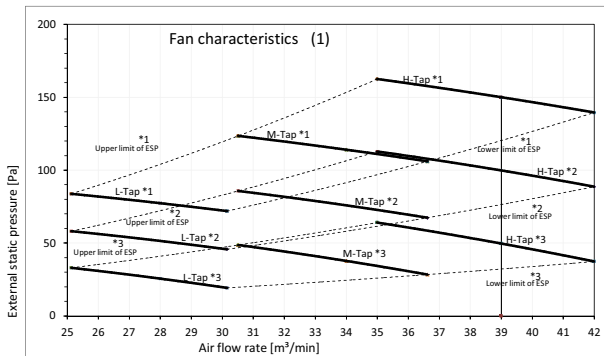


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

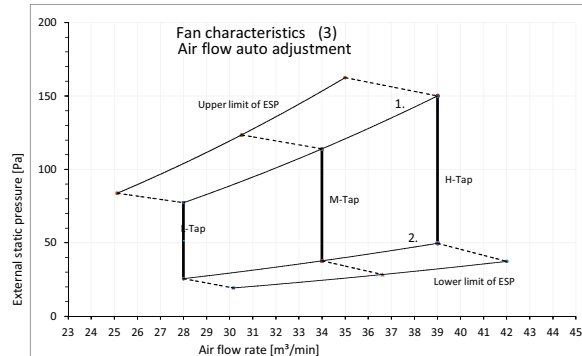
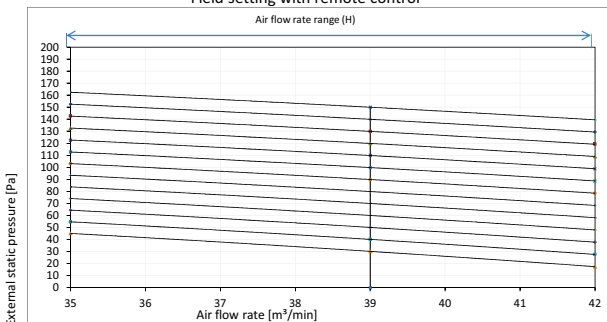
3D095697A

### FXSQ140A



Mark	ESP [Pa]
*1	MAX 150
*2	STD 100
*3	MIN 50

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

3D096688A

# 13 Installation

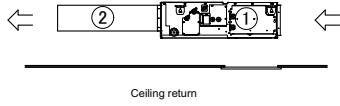
## 13 - 1 Installation Method

13

FXSQ-A

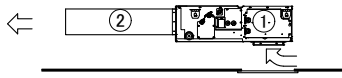
### Installation methods

#### Rear suction



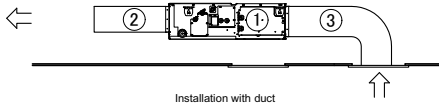
Ceiling return

#### Bottom suction

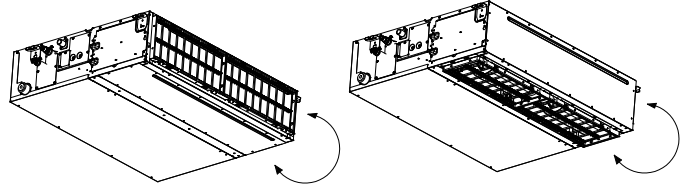


Ceiling return

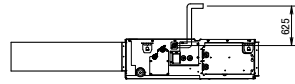
#### Rear suction



Installation with duct



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

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These products are not within the scope of the Eurovent certification program

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