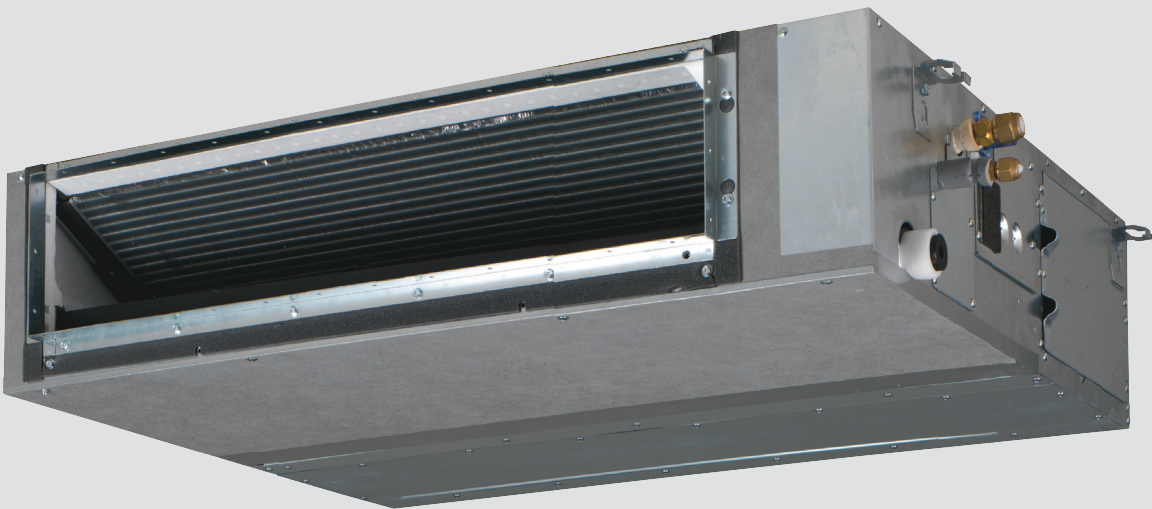


Air Conditioning Technical Data

FXSQ-A



- > FXSQ15A2VEB
- > FXSQ20A2VEB
- > FXSQ25A2VEB
- > FXSQ32A2VEB
- > FXSQ40A2VEB
- > FXSQ50A2VEB

- > FXSQ63A2VEB
- > FXSQ80A2VEB
- > FXSQ100A2VEB
- > FXSQ125A2VEB
- > FXSQ140A2VEB

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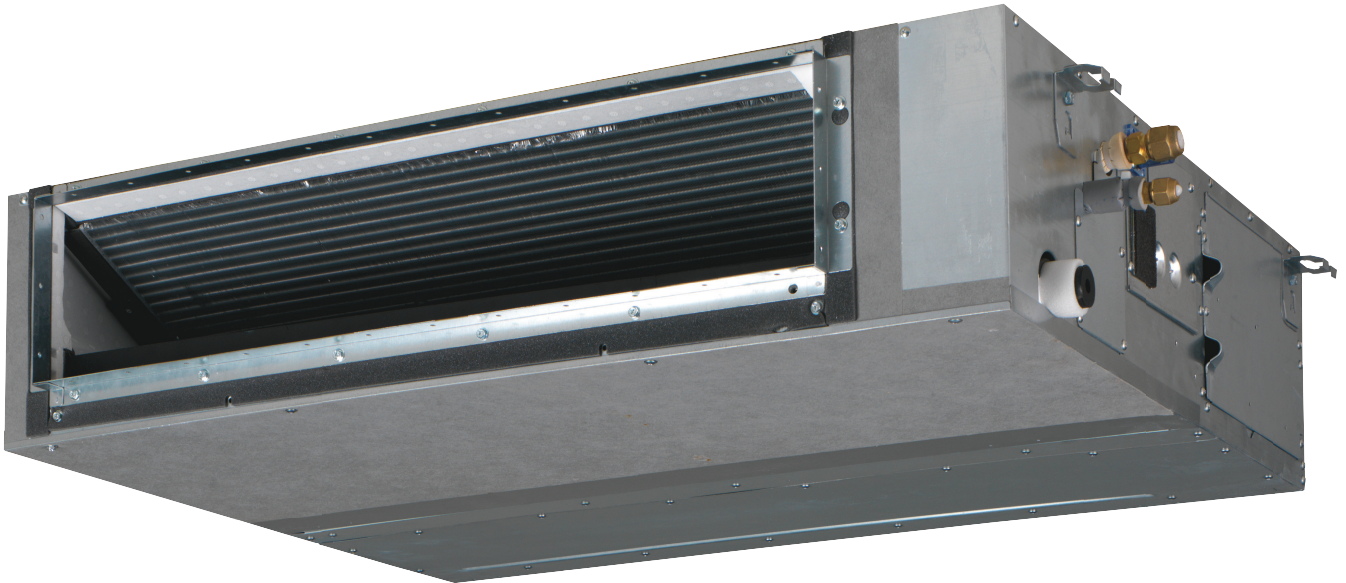
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1 Features

Slimmest yet most powerful medium static pressure unit on the market

- Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- Whisper 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.
- Reduced energy consumption thanks to specially developed DC fan motor and drain pump
- 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

1



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 (1)						
	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						
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)						

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 ³ /min	21.0	23	32	36	39
			Nom.	m ³ /min	18	19.5	27	31.5	34
			Low	m ³ /min	15	16	23	26	28
		Heating	High	m ³ /min	21	23	32	36	39
			Nom.	m ³ /min	18	19.5	27	31.5	34
			Low	m ³ /min	15	16.0	23	26	28
External static pressure - 50Hz	High		Pa	150 (1)					
	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					
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)					

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	Max.	%	10						
	Min.	%	-10						
Current - 50Hz	Minimum circuit amps (MCA)		A	0.7			1.1		
	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	Max.	%	10					
	Min.	%	-10					
Current - 50Hz	Minimum circuit amps (MCA)		A	1.5	1.7	2.2	2.4	2.5
	Maximum fuse amps (MFA)		A	16				
	Full load amps (FLA)	Total	A	0.7	0.8	1.2	1.6	1.5

Notes

(1) Contains fluorinated greenhouse gases

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

FXSQ-A

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

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
The next lower standard fuse rating is minimum 16 ampere.
- 6 Editable data for this drawing are available in the GDE (E-BOM) system.

Symbols
 ① Hz
 ② Voltage
 ③ 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

5

FXSQ-A

Discharge	Description	Option kit	SA				VRV							
			FRQ350, FRQ500	FRQ600, FRQ710	FRQ1000	FRQ1250	FRQ1500	FRQ1400	FXSQ15A, FXSQ25A	FXSQ30A, FXSQ50A	FXSQ63A, FXSQ80A	FXSQ100A, FXSQ125A	FXSQ140A	
	Air discharge adaptor for round ducts	KDAP25A36A	X				X							
		KDAP25A56A		X				X						
		KDAP25A71A			X				X					
		KDAP25A140A				X						X		

Operation control

Description	Option kit	SA				VRV					
		FRQ350, FRQ500	FRQ600, FRQ710	FRQ1000	FRQ1250	FRQ1400	FXSQ15A, FXSQ25A	FXSQ30A, FXSQ50A	FXSQ63A, FXSQ80A	FXSQ100A, FXSQ125A	FXSQ140A
Wired remote control	BRC1E528	X	X	X	X	X	X	X	X	X	X
	BRC1E53A7	X(*7)	X(*7)	X(*7)	X(*7)	X(*7)	X(*7)	X(*7)	X(*7)	X(*7)	X(*7)
	BRC1E53B7	X(*8)	X(*8)	X(*8)	X(*8)	X(*8)	X(*8)	X(*8)	X(*8)	X(*8)	X(*8)
	BRC1E53C7	X(*9,10)	X(*9,10)	X(*9,10)	X(*9,10)	X(*9,10)	X(*9,10)	X(*9,10)	X(*9,10)	X(*9,10)	X(*9,10)
Central remote control	DCS302CA51	X	X	X	X	X	X	X	X	X	X
Unified ON/OFF controller	DCS301BA51	X	X	X	X	X	X	X	X	X	X
Intelligent touch controller	DCS601C51	X	X	X	X	X	X	X	X	X	X
Schedule timer	DST301BA51	X	X	X	X	X	X	X	X	X	X
Adaptor for wiring (interlock for fresh air intake fan)	KRP1B54	X	X	X							
Wiring adaptor for electrical appendices	KRP4A52	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)
Wiring adaptor for electrical appendices	KRP4A51	X(*2,4)	X(*2,4)	X(*2,4)	X(*2,4)	X(*2,4)	X(*2,4)	X(*2,4)	X(*2,4)	X(*2,4)	X(*2,4)
Optional PCB for external electric heaters, humidifiers and/or hour meters	EKRP1B2A	X(*1,2)	X(*1,2)	X(*1,2)	X(*1,2,3)	X(*1,2,3)	X(*1,2,3)	X(*1,2,3)	X(*1,2,3)	X(*1,2,3)	X(*1,2,3)
Wireless remote control H/P	BRC4C65	X	X	X	X	X	X	X	X	X	X
Wireless remote control C/O	BRC4C66	X	X	X	X	X	X	X	X	X	X
Simplified remote control for hotel use	BRC2E52C7	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)
Remote control for hotel use	BRC3E52C7	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)	X(*6,10)
Remote sensor	KRC501-4B	X	X	X	X	X	X	X	X	X	X
Electrical box with earth terminal (3 blocks)	KJB311A				X	X	X	X	X	X	X
Electrical box with earth terminal (2 blocks)	KJB212A				X	X	X	X	X	X	X
Electrical box with earth terminal	KJB411A	X	X	X	X	X	X	X	X	X	X
External adaptor for outdoor unit (installation on indoor unit)	DTA108A51				X	X	X	X	X	X	X
PCB for multi-tenant indoor units	DTA114A51				X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)
Installation box for adaptor PCB	KRP1BA101	X	X	X	X	X	X	X	X	X	X
	KRP1B101	X	X	X	X	X	X	X	X	X	X
Digital input adaptor	BRP7A51	X(*3,5)	X(*3,5)	X(*3,5)	X(*3,5)	X(*3,5)	X(*3,5)	X(*3,5)	X(*3,5)	X(*3,5)	X(*3,5)
iTouch Manager	DCM601A51	X	X	X	X	X	X	X	X	X	X

- (*1) Electric heaters and humidifiers are field-supplied. Do not install them inside the equipment (refer to installation manual EKRP1B2A).
- (*2) When installing electric heaters, an optional PCB for external electric heaters (EKRP1B2) is required for each indoor unit. These options require mounting plate KRP4A96.
- (*3) Maximally 2 optional PCBs can be mounted.
- (*4) This option needs to be installed together with installation box KRP1B101/KRP1BA101.
- (*5) Only possible in combination with remote control BRC2/3E52C7, BRC1E53A/B/C7.
- (*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, Slovak, and Turkish.
- (*7) Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.
- (*8) Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.
- (*9) Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.
- (*10) Language pack 3 of controller BRCE1E53C7 is different from that of controller BRC2/3E52C7.
- (*11) Editable data for this drawing are available in the GDE (E-BOM) system.

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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

6

FXSQ-A

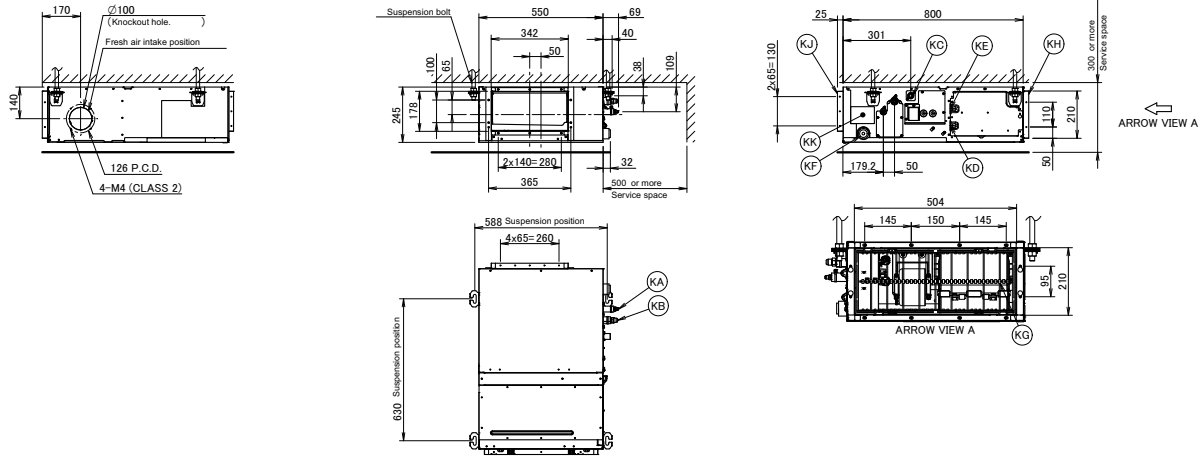
Unit size	Outdoor air temp.		Indoor air temp.: °CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
15	7.0	6.0	2.0	2.0	1.9	1.8	1.8	1.7
20	7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
25	7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
32	7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
40	7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
50	7.0	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

3D095294A

7 Dimensional drawings

7 - 1 Dimensional Drawings

FXSQ15-32A

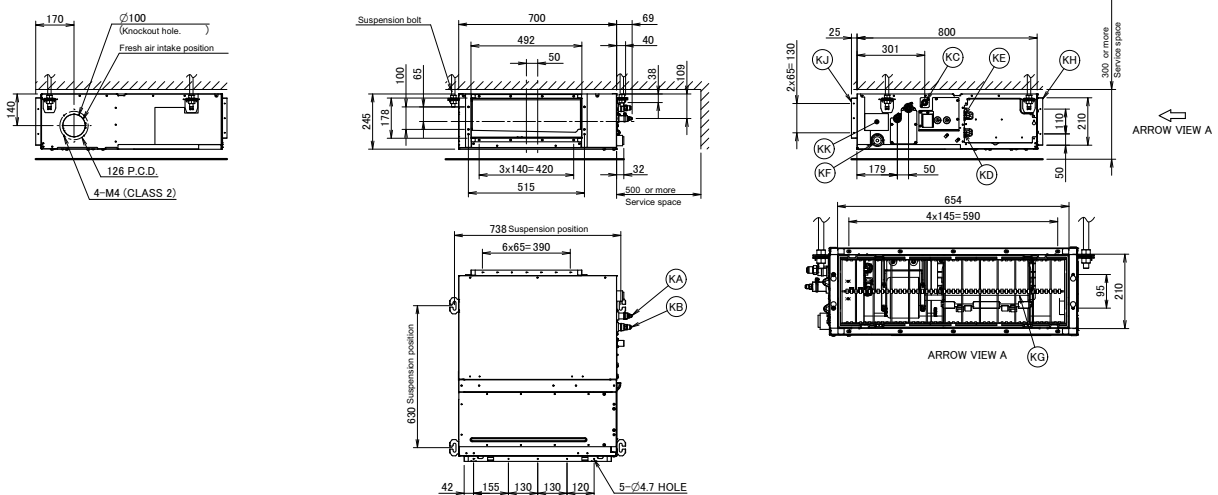


Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side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

3D094888A

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.

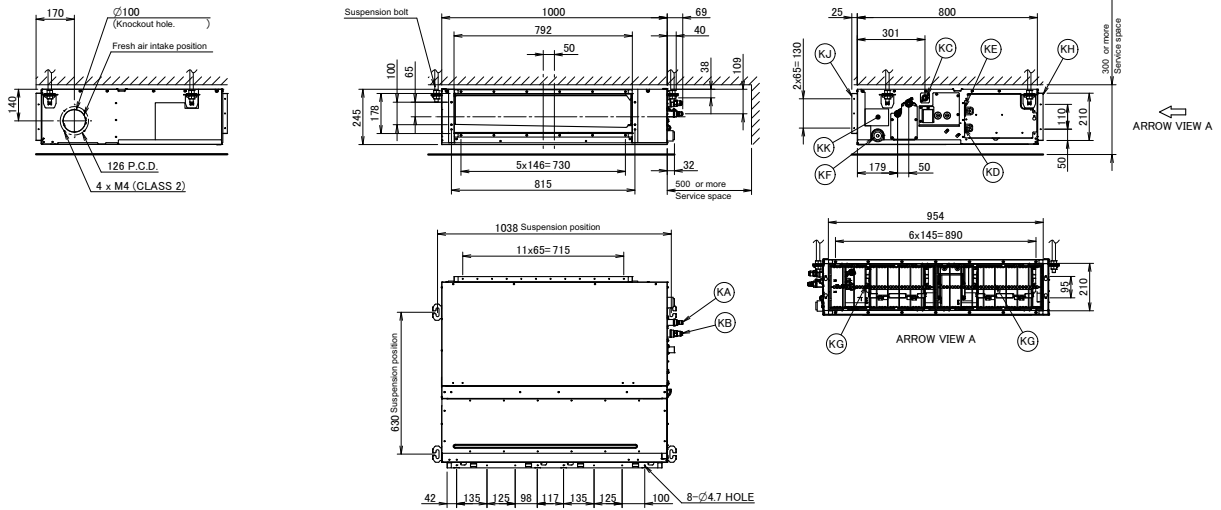
3D094919A

7 Dimensional drawings

7 - 1 Dimensional Drawings

7

FXSQ63-80A

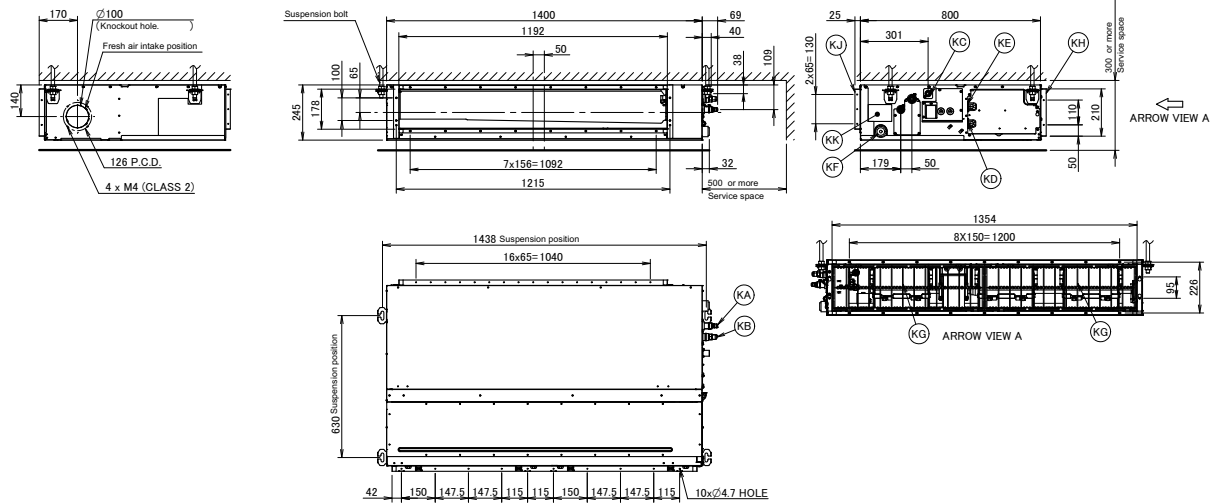


Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side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

3D094916A

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	/

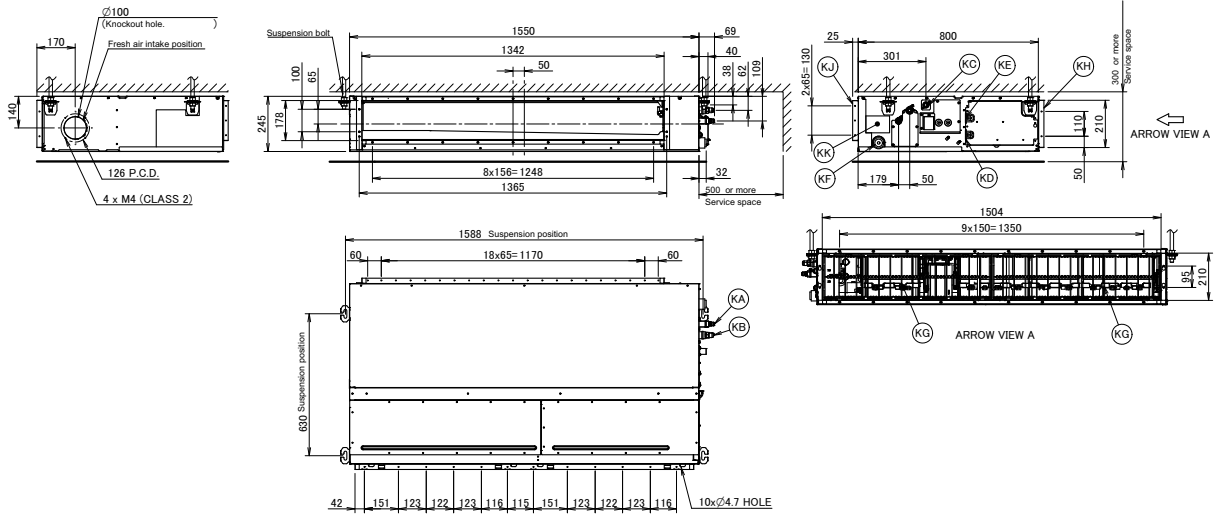
Notes
 1. When installing optional accessories, refer to their respective documentation.
 2. The ceiling depth varies according to the documentation of the specific system.

3D094917A

7 Dimensional drawings

7 - 1 Dimensional Drawings

FXSQ140A



Item	Name	Description
KA	Liquid pipe connection port	$\phi 9.52$ flared connection
KB	Gas pipe connection port	$\phi 15.90$ 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

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

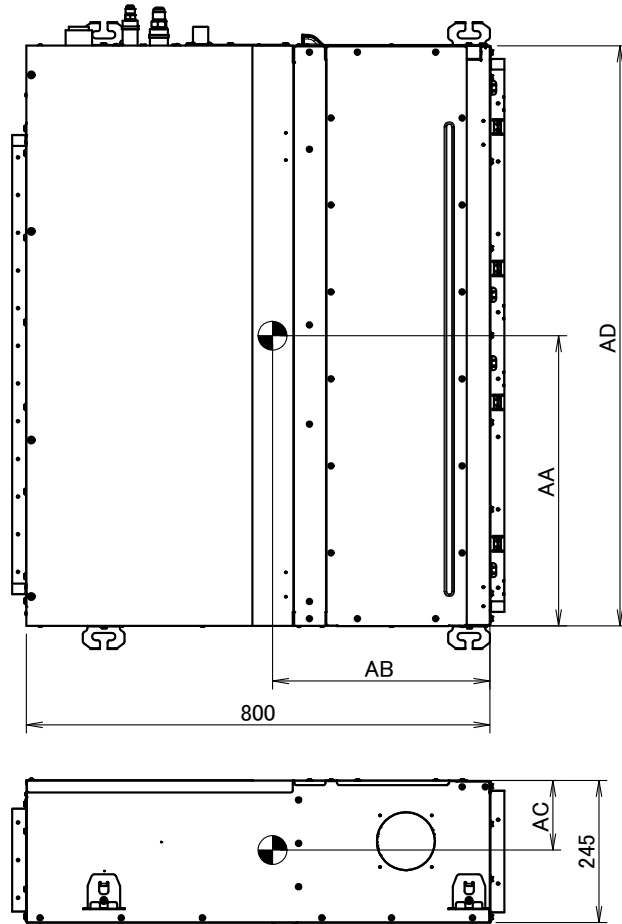
3D094928A

8 Centre of gravity

8 - 1 Centre of Gravity

FXSQ-A

8



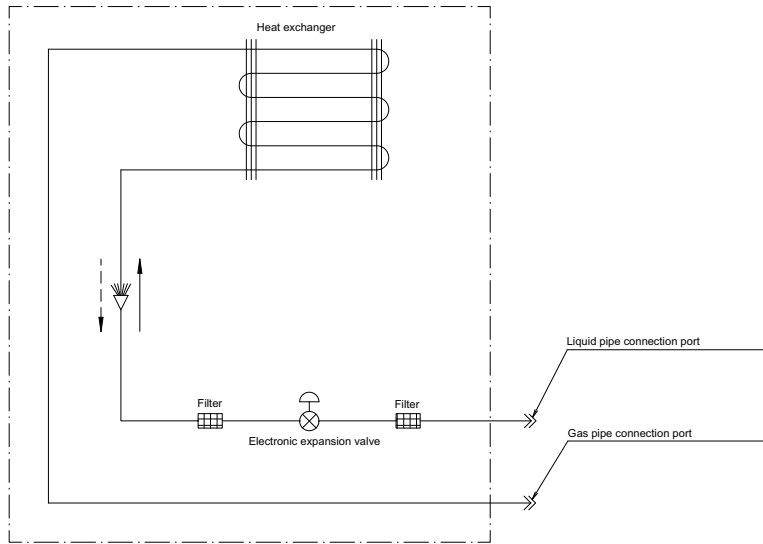
Applicable models	AA	AB	AC	AD
FXSQ15/20/25/32	305	365	145	550
FXSQ40/50	410	375	125	700
FXSQ63/80	525	380	125	100
FXSQ100/125	760	390	115	1400
FXSQ140	870	385	120	1550

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

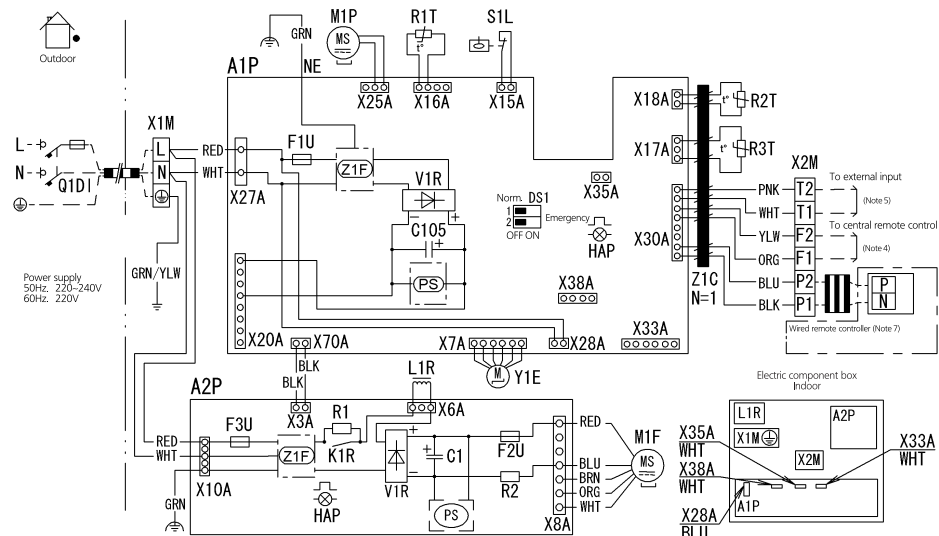
3D090269A

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXSQ15-125A

- Indoor unit
- A1P : Printed circuit board
 - A2P : Printed circuit board (Fan)
 - C1 : Capacitor
 - C105 : Capacitor
 - DS1 : Selector switch
 - F1U : Fuse (T, 3.15A, 250V)
 - F2U : Fuse (T, 5A, 250V)
 - F3U : Fuse (T, 6.3A, 250V)
 - HAP : Indication lamps
 - K1R : Magnetic relay
 - L1R : Reactor
 - M1P : Motor (Indoor fan)
 - M1F : Motor (Drain pump)
 - R1 : Resistor (current sensor)
 - R2 : Resistor (current sensor)
 - R1T : Thermistor (Suction)
 - R2T : Thermistor (Liquid)
 - R3T : Thermistor (Coil)
 - S1L : Float switch
 - V1R : Diode bridge
 - PS : Switching power supply
 - X1M : Terminal strip (Power supply)
 - X2M : Terminal block (Control)
 - Y1E : Electronic expansion valve coil
 - Z1F : Noise filter
 - Z2C : Ferrite core
 - Z3Z : Ferrite core
 - Q1DI : Earth leakage breaker
- Connector (Optional accessories)
- X28A : Connector (Power supply for wiring)
 - X33A : Connector (for wiring)
 - X35A : Connector (Power supply for adapter)
 - X38A : Connector (for wiring)



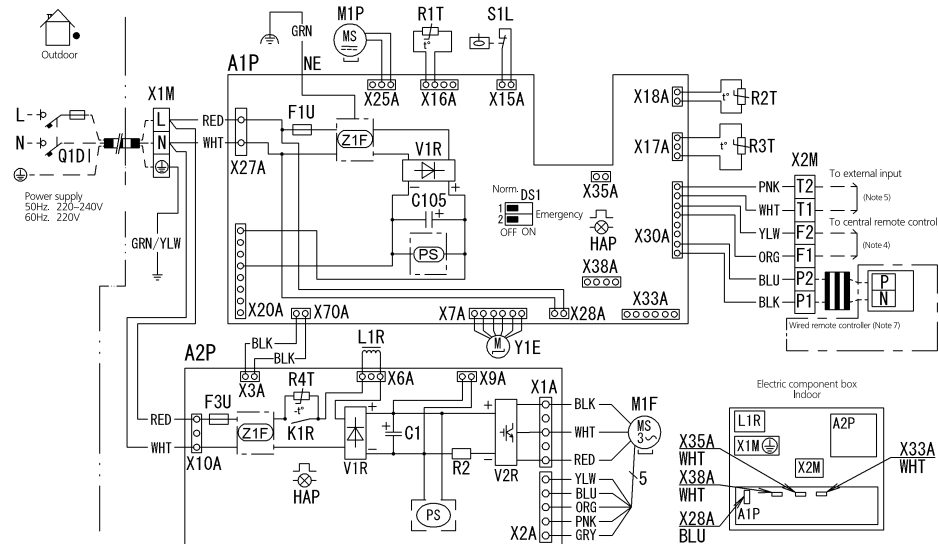
Notes

1. : Screw terminal : Connector, : Field wiring
2. In case of a multi-indoor-unit-system with parallel operation, refer to the documentation for the indoor units.
3. For details, refer to the wiring diagram attached to the outdoor unit.
4. When using a central remote control, connect it to the unit according to the installation manual.
5. When connecting the input wires from outside, forced OFF or ON/OFF control operation can be selected by the remote controller. for more information, see installation manual
6. For a multi-indoor-unit-system with parallel operation, the connection ration (number of indoor units you can connect to the outdoor unit) is different. Before connecting, refer to the Technical data of the General catalogue.
7. For how to switch between the main unit and the sub units, refer to the installation manual of the remote control.
8. Colours: BLK:Black; RED:Red; BLU:Blue; WHT:White; GRN:Green; YLW:Yellow; BRN:Brown; ORG:Orange; PNK:Pink

3D090349A

FXSQ140A

- Indoor unit
- A1P : Printed circuit board
 - A2P : Printed circuit board (Fan)
 - C1 : Capacitor
 - C105 : Capacitor
 - DS1 : Selector switch
 - F1U : Fuse (T, 3.15A, 250V)
 - F2U : Fuse (T, 5A, 250V)
 - F3U : Fuse (T, 6.3A, 250V)
 - HAP : Indication lamps
 - K1R : Magnetic relay
 - L1R : Reactor
 - M1P : Motor (Indoor fan)
 - M1F : Motor (Drain pump)
 - R1 : Resistor (current sensor)
 - R2 : Resistor (current sensor)
 - R1T : Thermistor (Suction)
 - R2T : Thermistor (Liquid)
 - R3T : Thermistor (Coil)
 - S1L : Float switch
 - V1R : Diode bridge
 - PS : Switching power supply
 - X1M : Terminal strip (Power supply)
 - X2M : Terminal block (Control)
 - Y1E : Electronic expansion valve coil
 - Z1F : Noise filter
 - Z3Z : Ferrite core
 - Q1DI : Earth leakage breaker
- Connector (Optional accessories)
- X28A : Connector (Power supply for wiring)
 - X33A : Connector (for wiring)
 - X35A : Connector (Power supply for adapter)
 - X38A : Connector (for wiring)



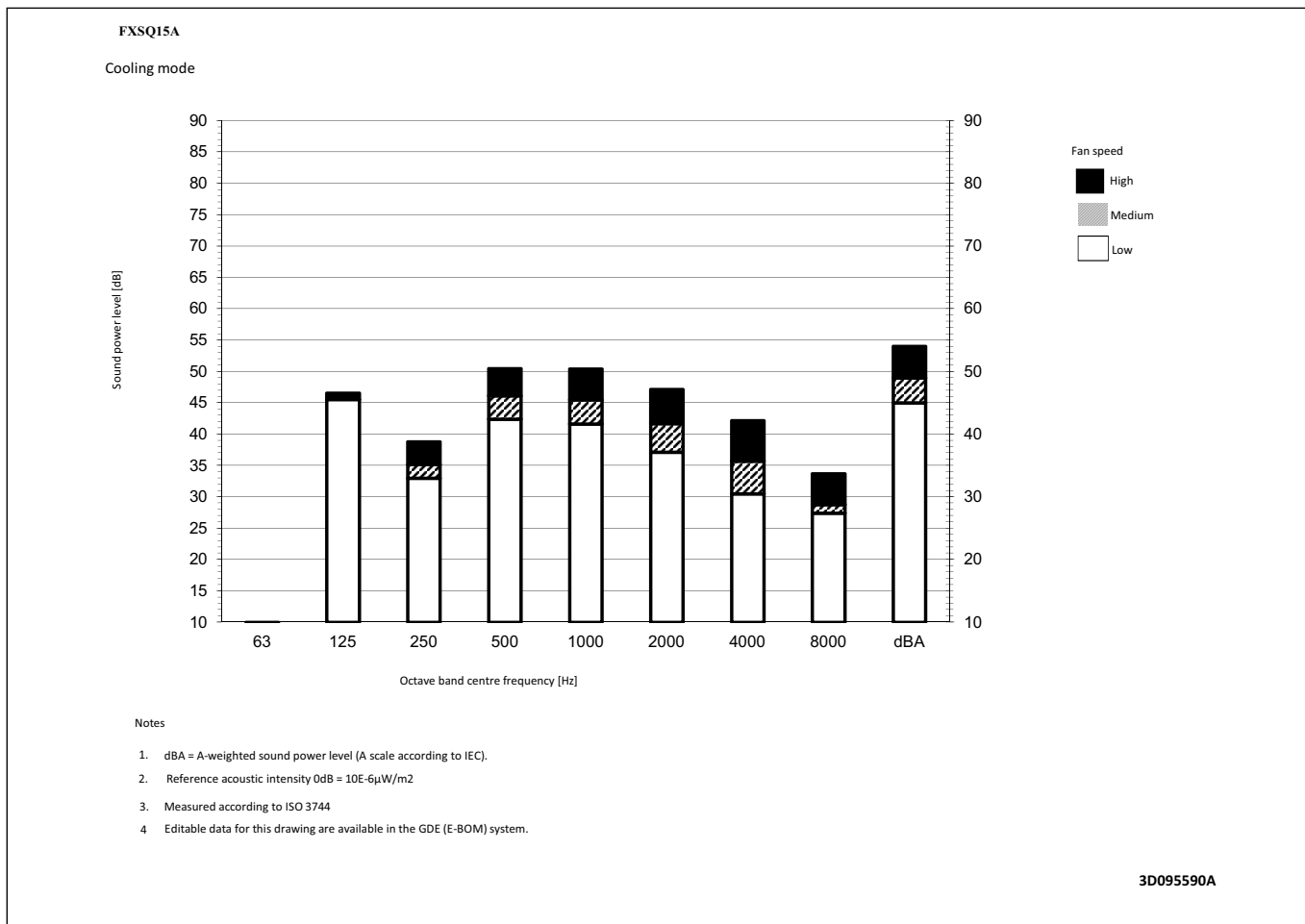
Notes

1. : Screw terminal : Connector, : Field wiring
2. In case of a multi-indoor-unit-system with parallel operation, refer to the documentation for the indoor units.
3. For details, refer to the wiring diagram attached to the outdoor unit.
4. When using a central remote control, connect it to the unit according to the installation manual.
5. When connecting the input wires from outside, forced OFF or ON/OFF control operation can be selected by the remote controller. for more information, see installation manual
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7. For how to switch between the main unit and the sub units, refer to the installation manual of the remote control.
8. Colours: BLK:Black; RED:Red; BLU:Blue; WHT:White; GRN:Green; YLW:Yellow; BRN:Brown; ORG:Orange; PNK:Pink

3D090351

11 Sound data

11 - 1 Sound Power Spectrum



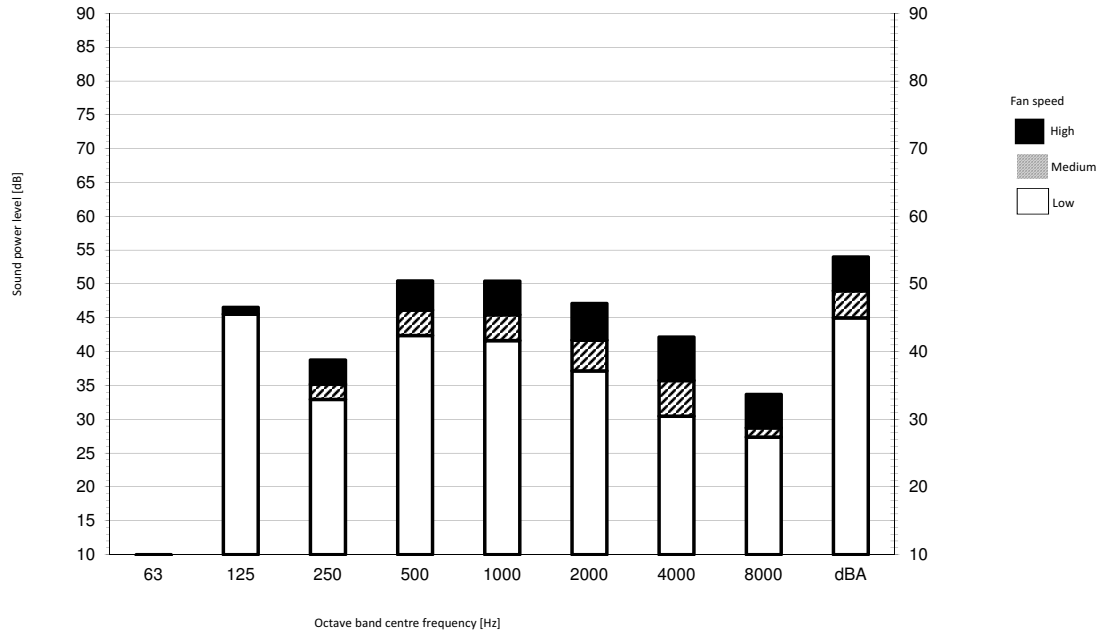
11 Sound data

11 - 1 Sound Power Spectrum

11

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

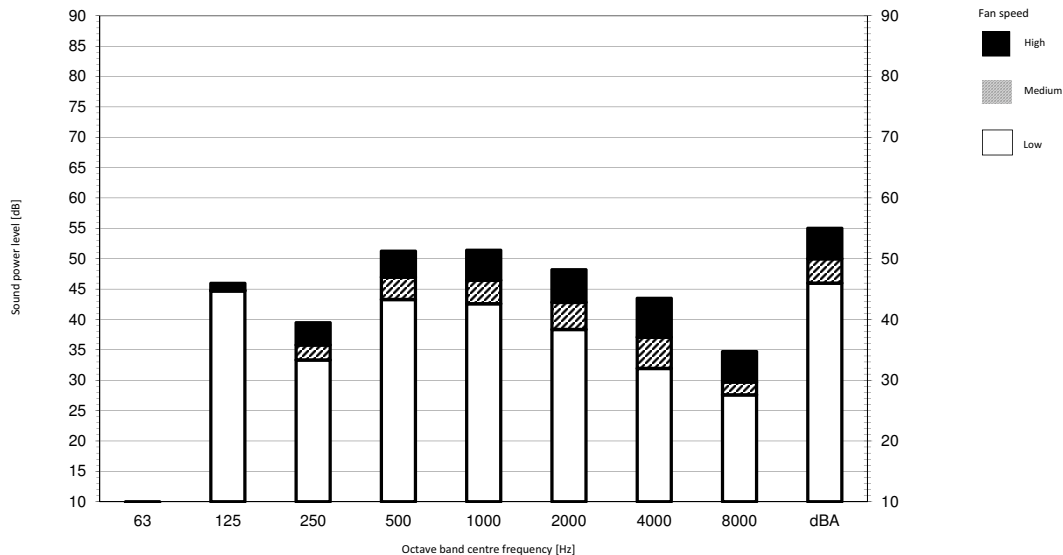
3D095591A

11 Sound data

11 - 1 Sound Power Spectrum

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

3D095592A

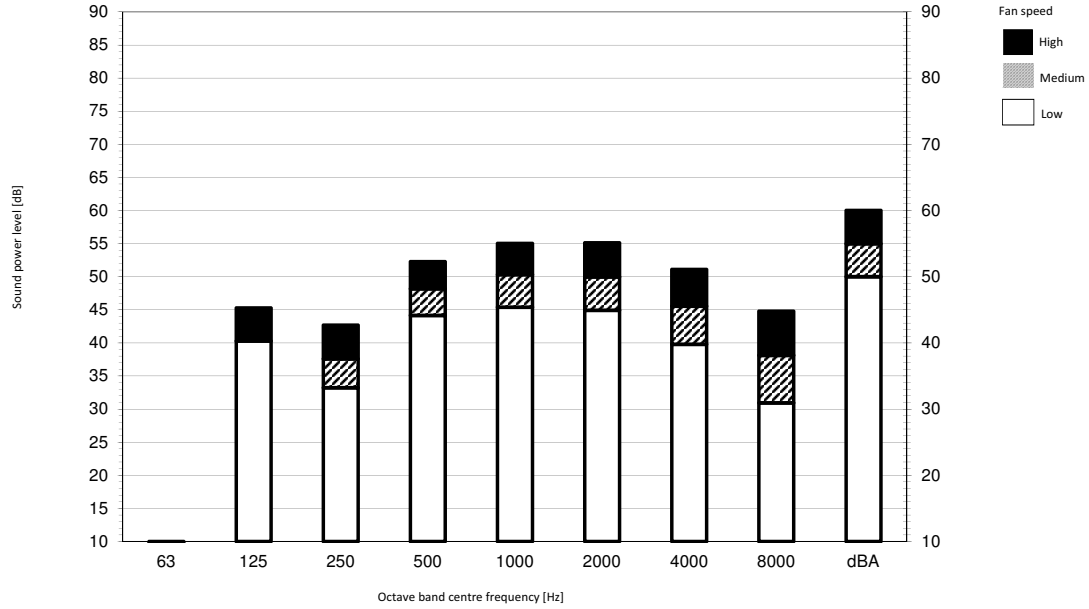
11 Sound data

11 - 1 Sound Power Spectrum

11

FXSQ40-50A

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

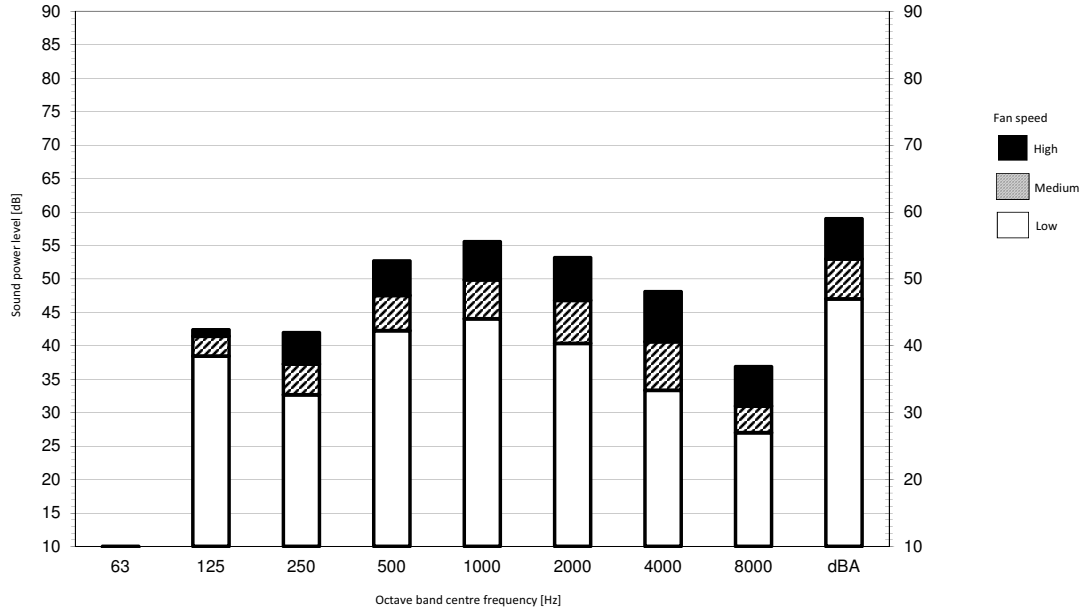
3D095579A

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 $0\text{dB} = 10\text{E-}6\mu\text{W/m}^2$
3. Measured according to ISO 3744

3D095593A

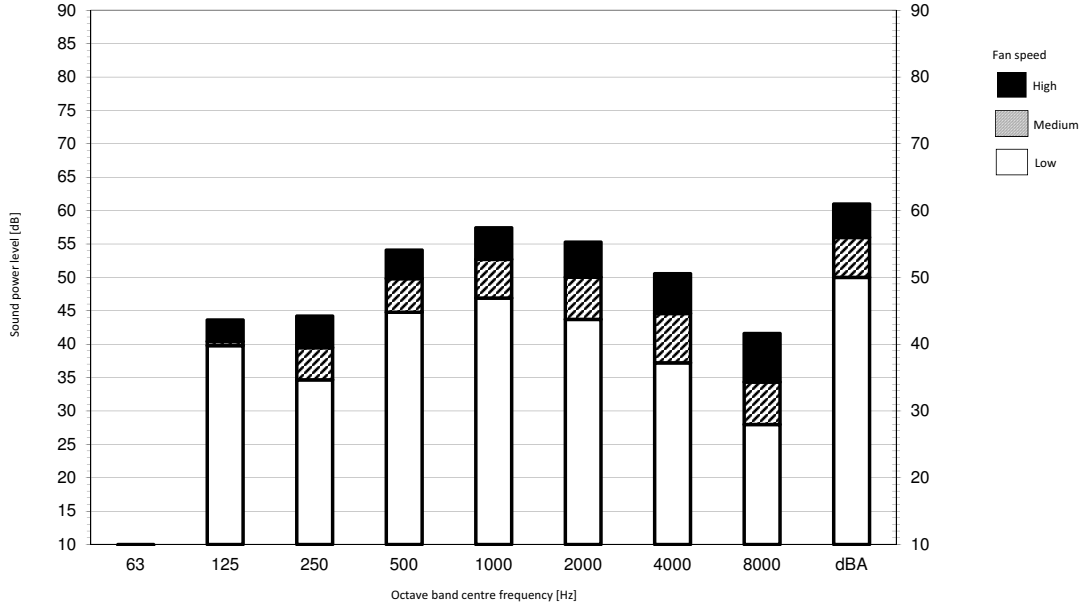
11 Sound data

11 - 1 Sound Power Spectrum

11

FXSQ80A

Cooling mode



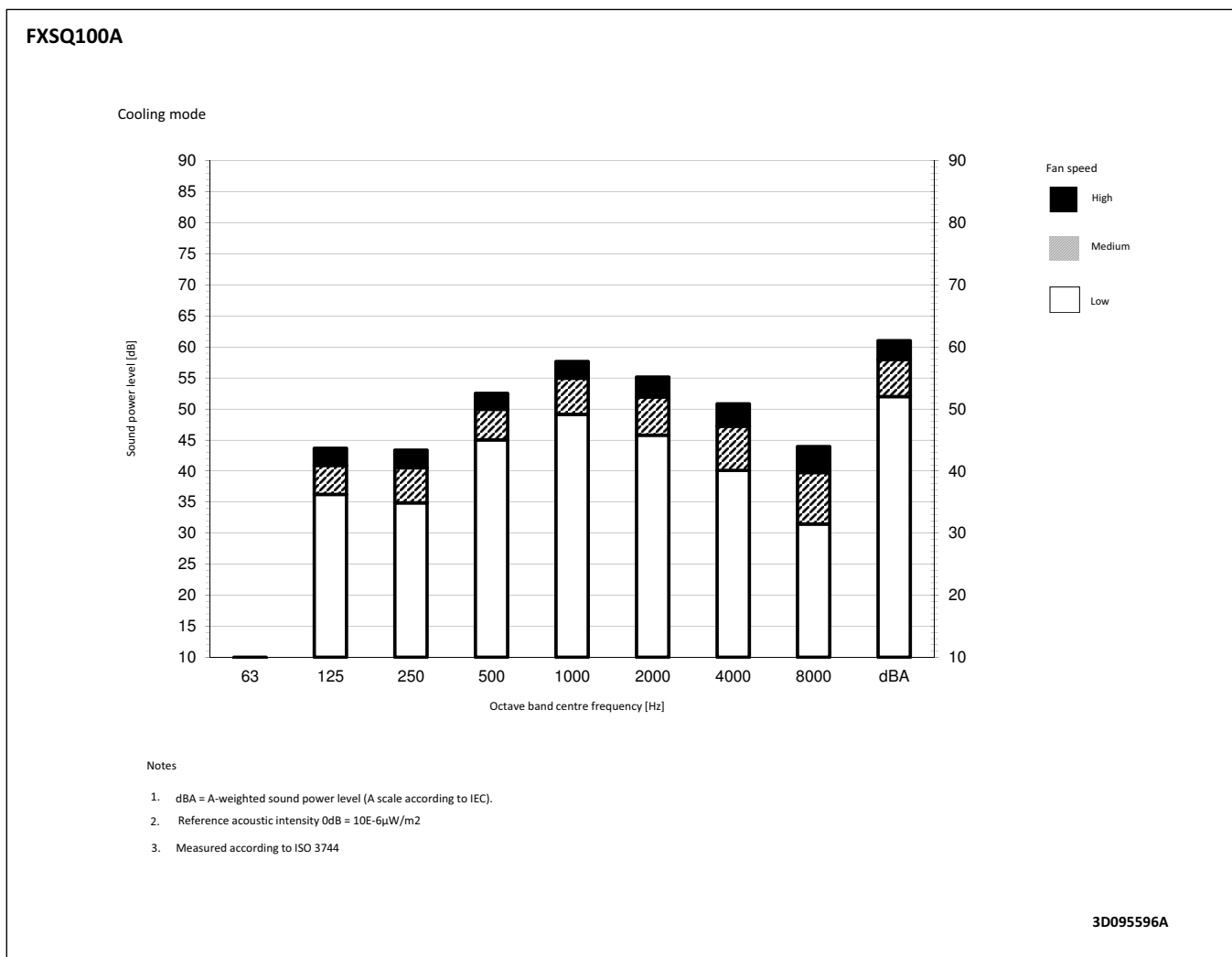
Notes

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

3D095594A

11 Sound data

11 - 1 Sound Power Spectrum



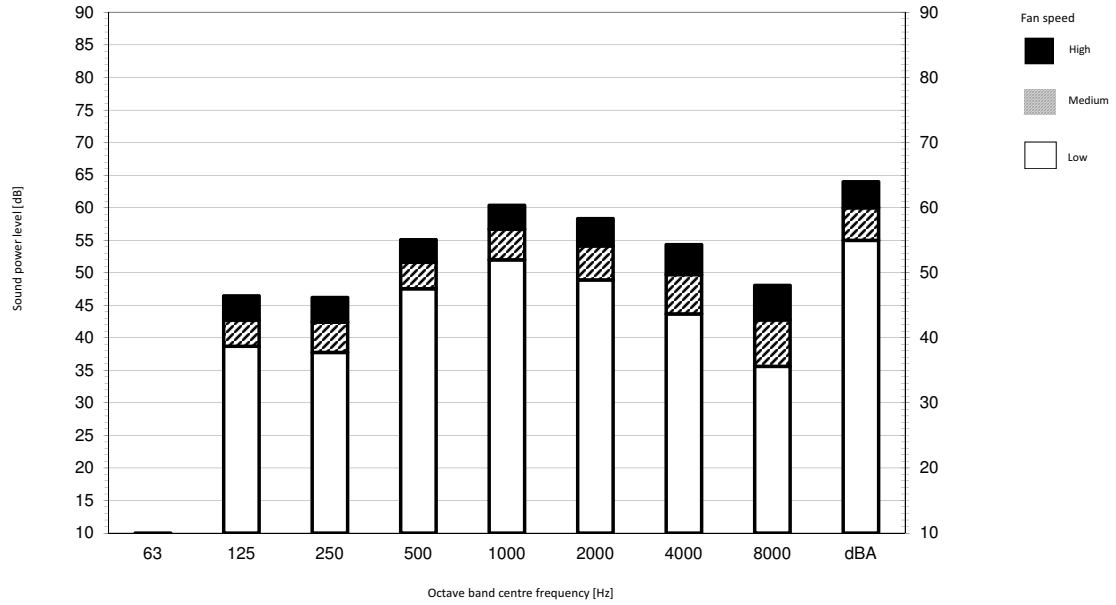
11 Sound data

11 - 1 Sound Power Spectrum

11

FXSQ125A

Cooling mode



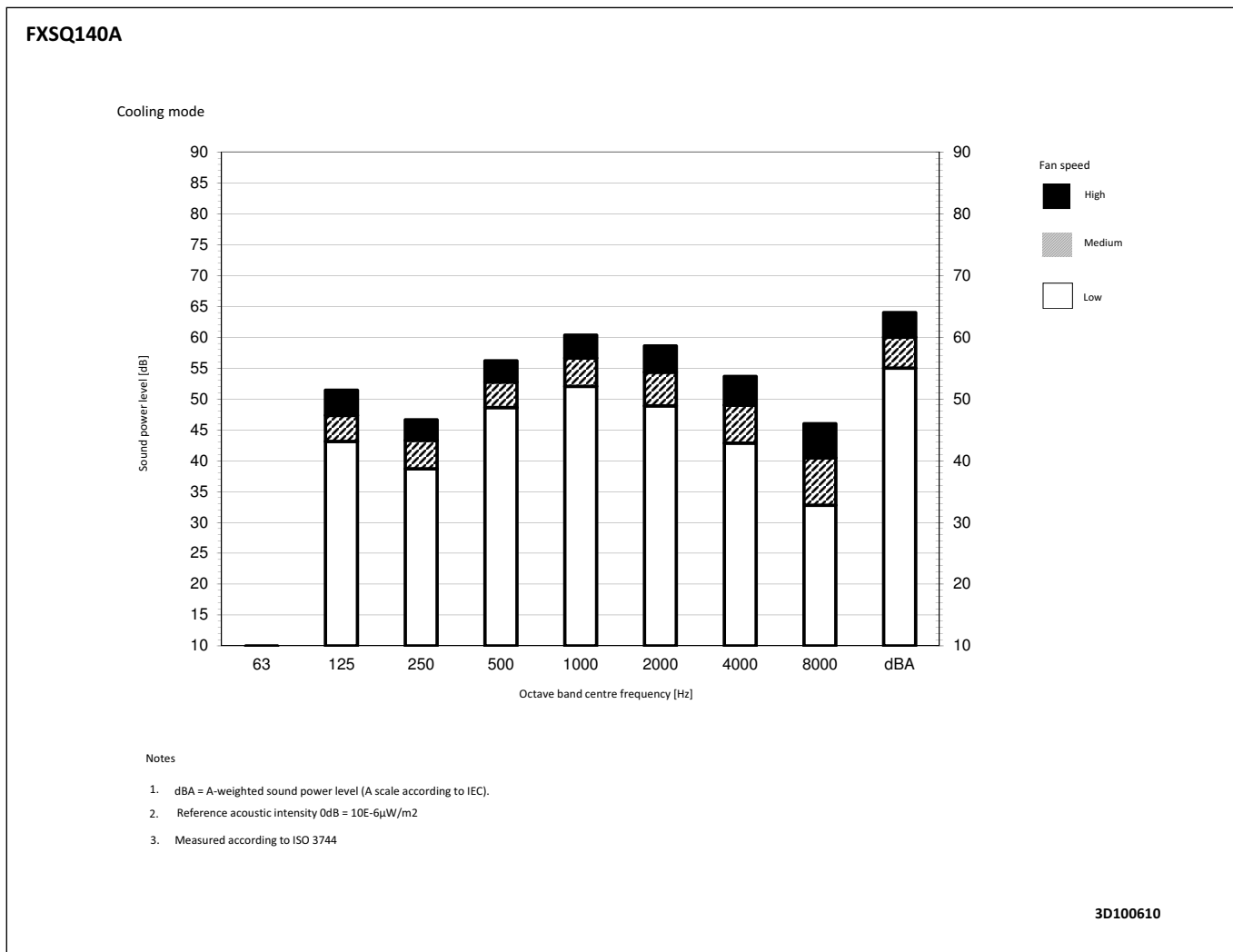
Notes

- 1.
2. Reference acoustic intensity $0\text{dB} = 10\text{E-}6\mu\text{W/m}^2$
3. Measured according to ISO 3744

3D095597A

11 Sound data

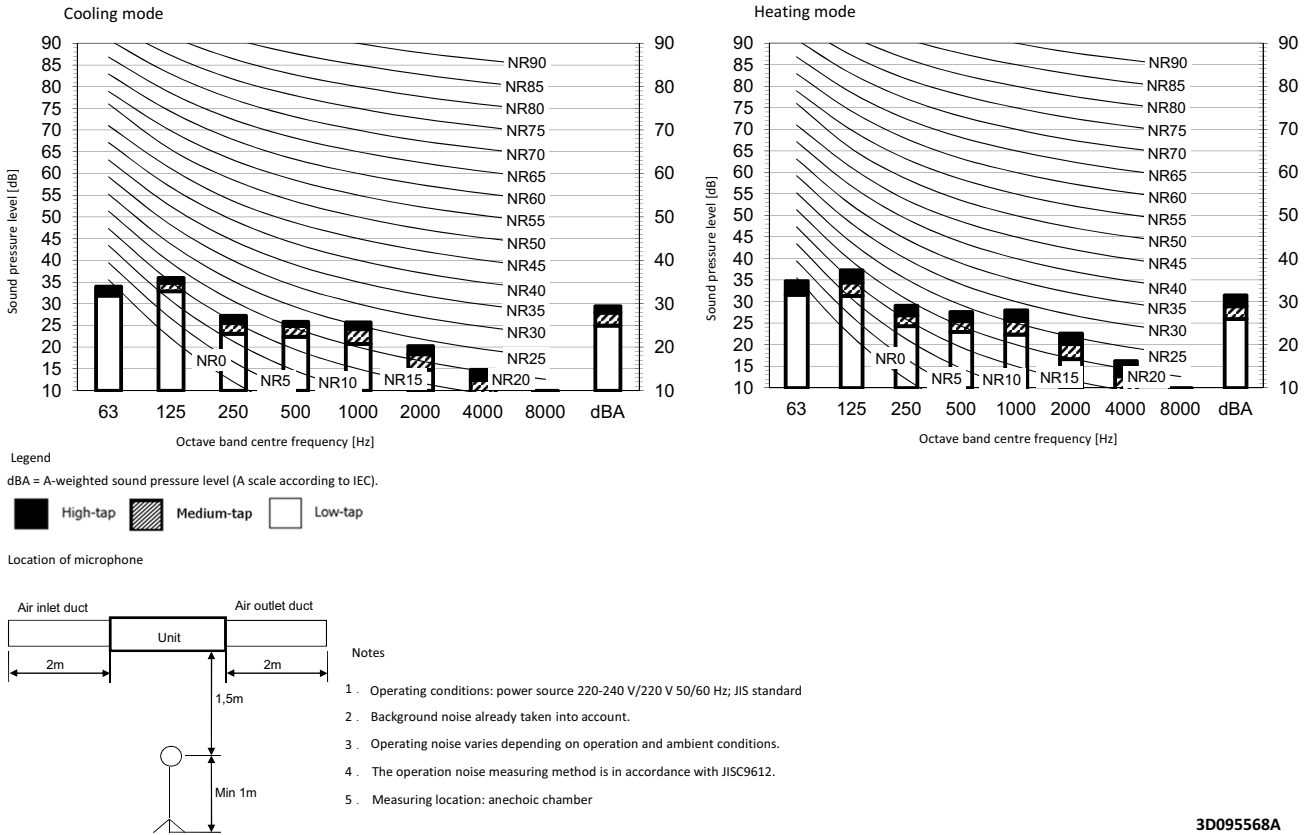
11 - 1 Sound Power Spectrum



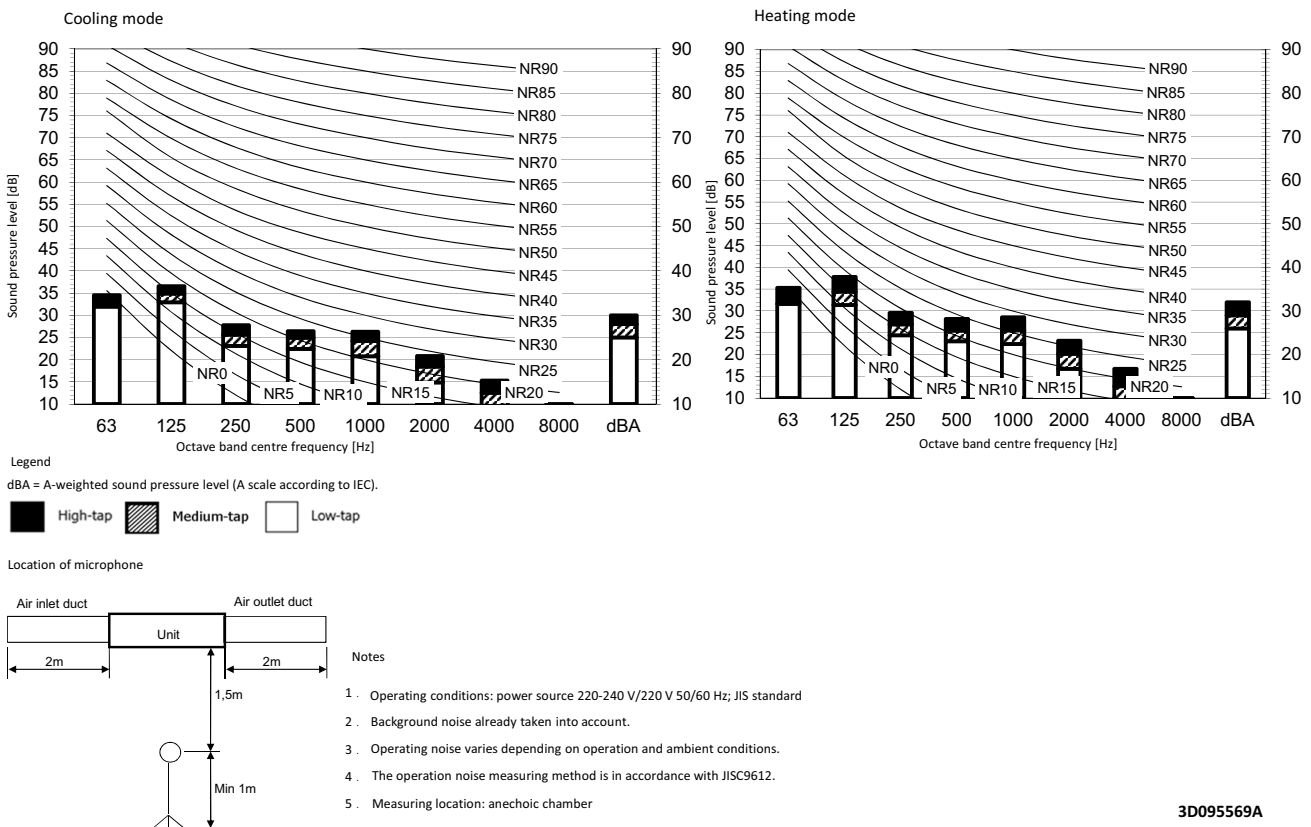
11 Sound data

11 - 2 Sound Pressure Spectrum

FXSQ15A

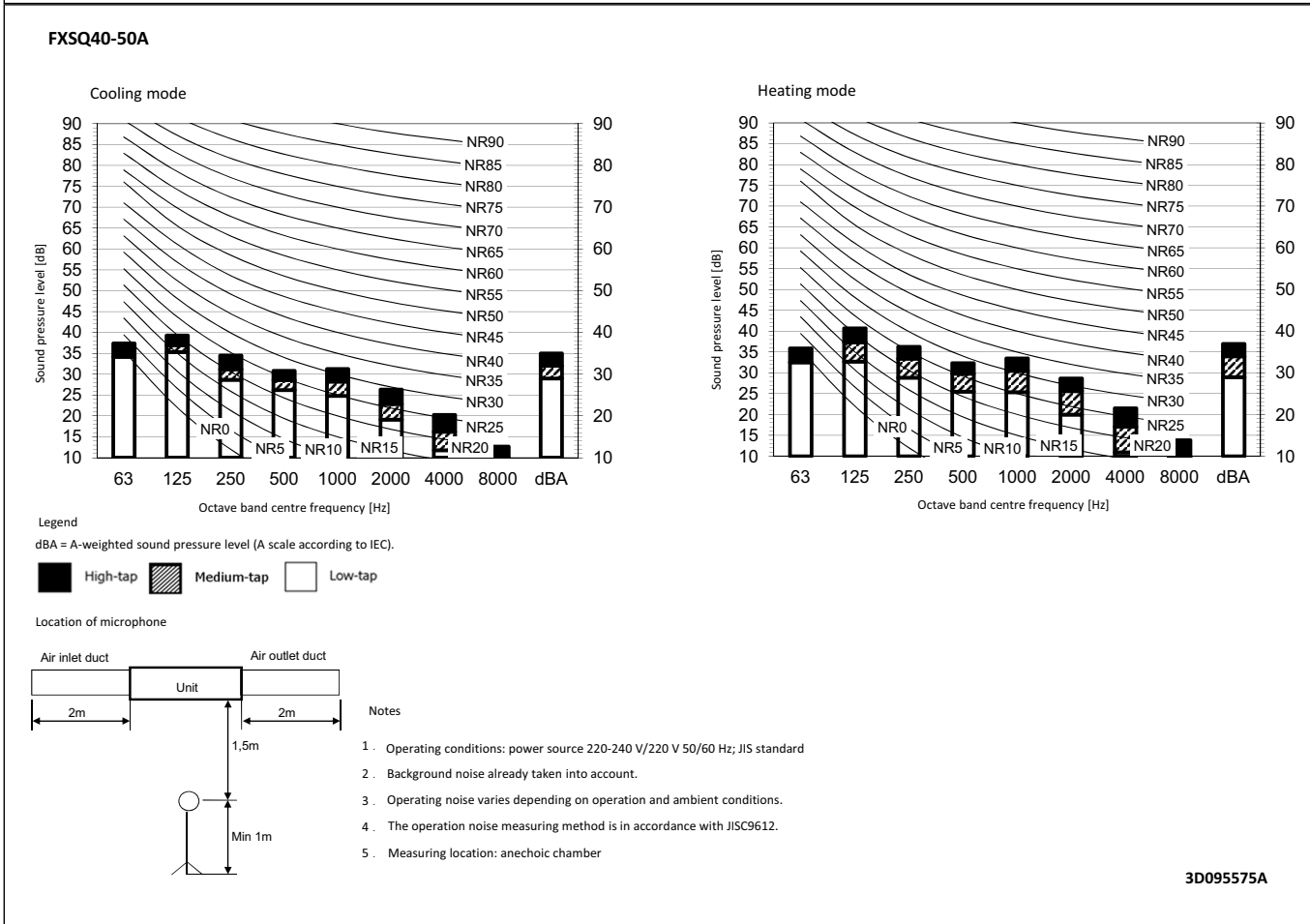
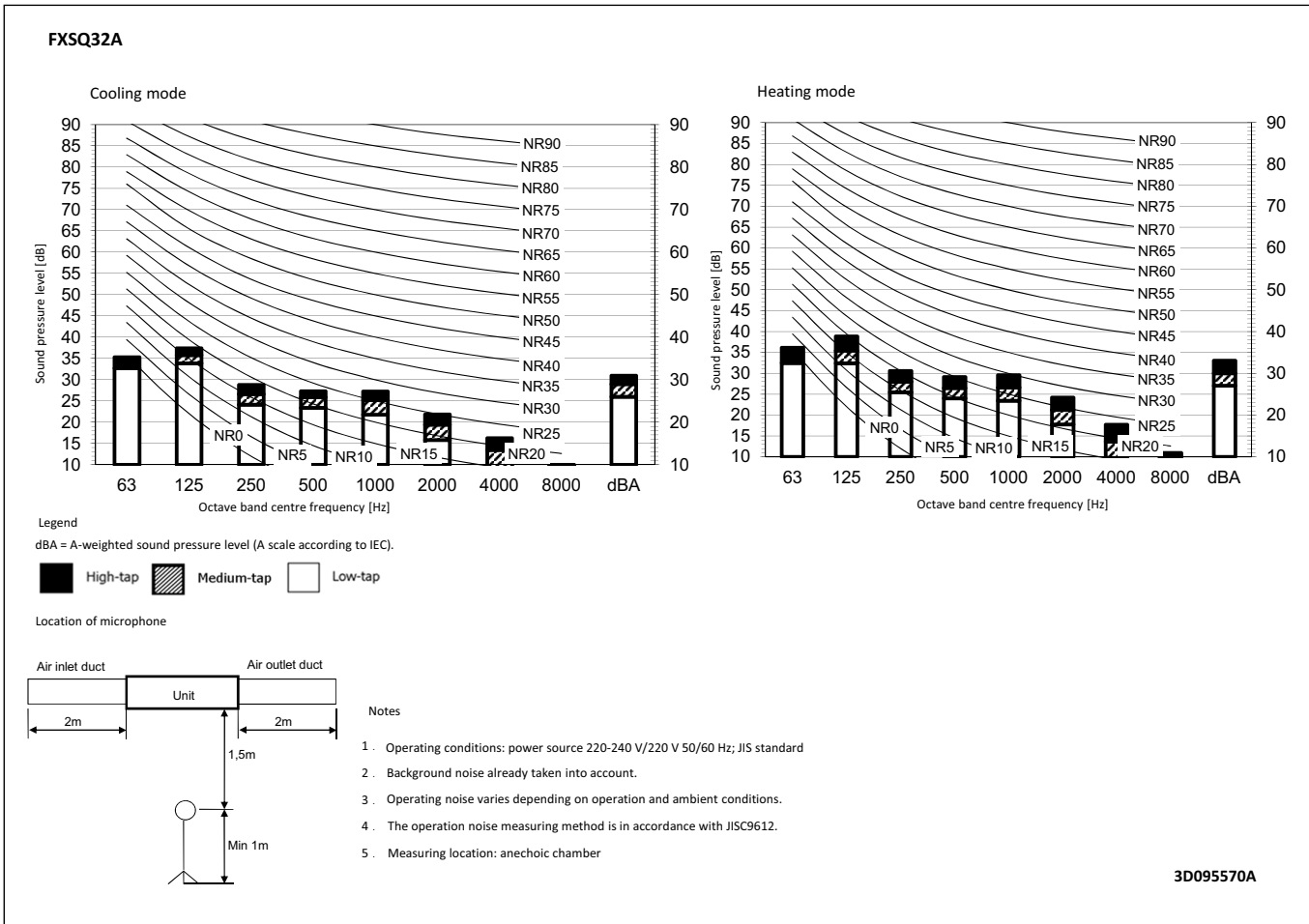


FXSQ20-25A



11 Sound data

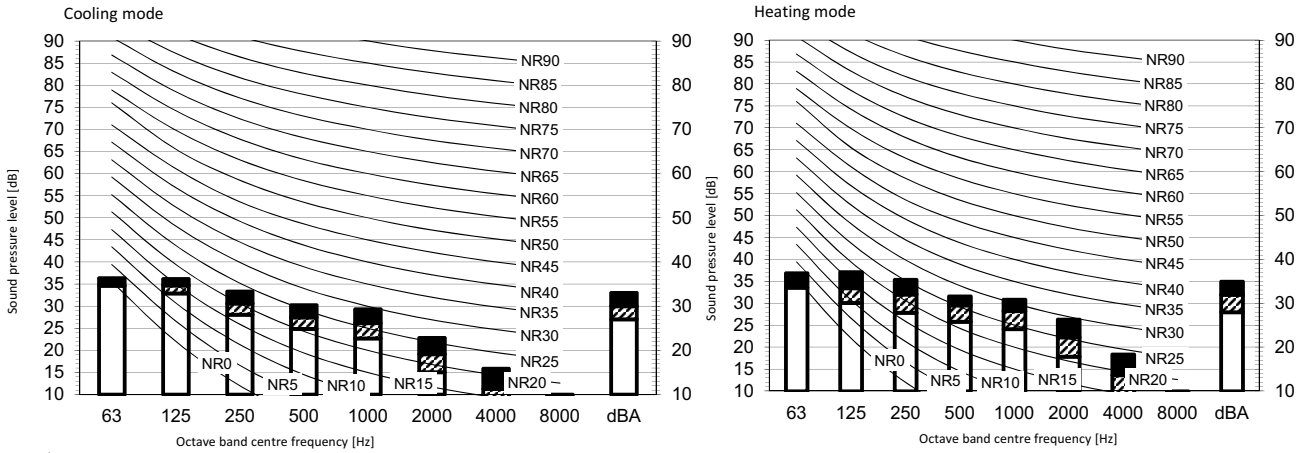
11 - 2 Sound Pressure Spectrum



11 Sound data

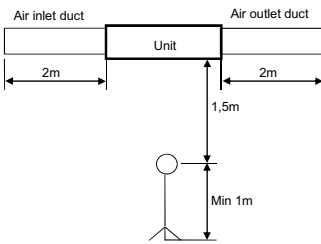
11 - 2 Sound Pressure Spectrum

FXSQ63A



Legend
 dBA = A-weighted sound pressure level (A scale according to IEC).
 ■ High-tap ▨ Medium-tap □ Low-tap

Location of microphone

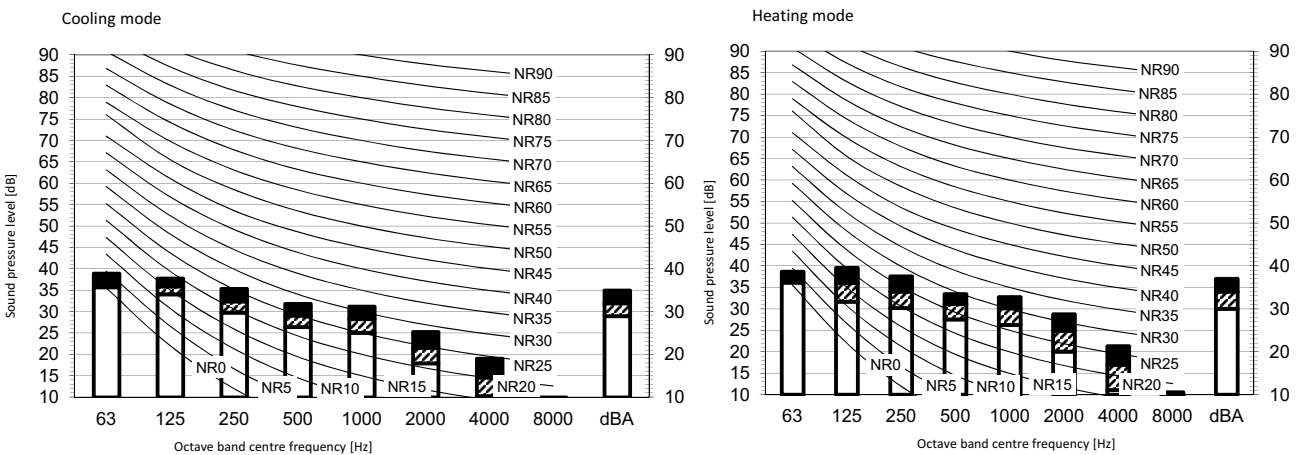


Notes

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

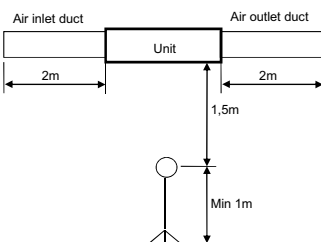
3D095571A

FXSQ80A



Legend
 dBA = A-weighted sound pressure level (A scale according to IEC).
 ■ High-tap ▨ Medium-tap □ Low-tap

Location of microphone



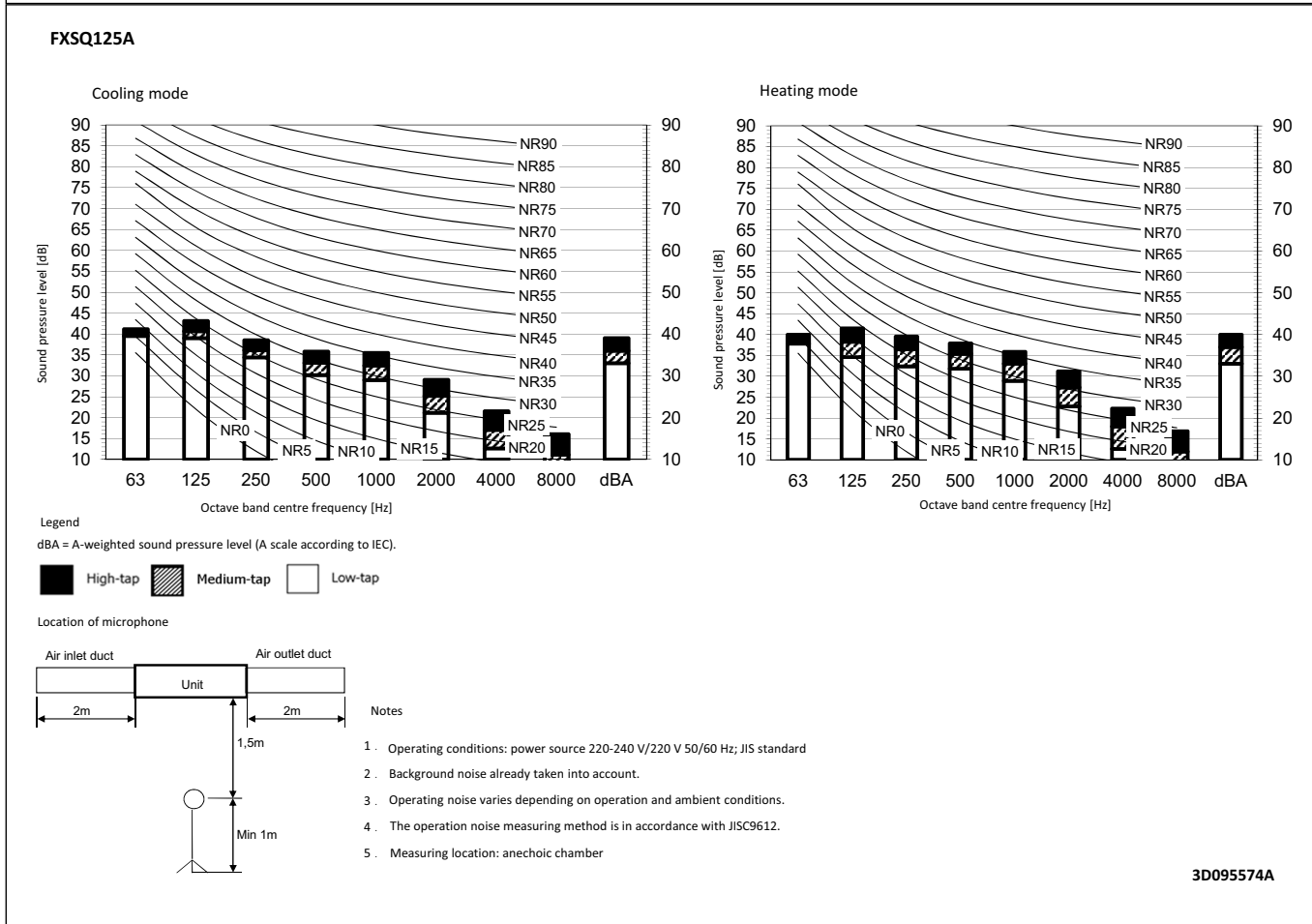
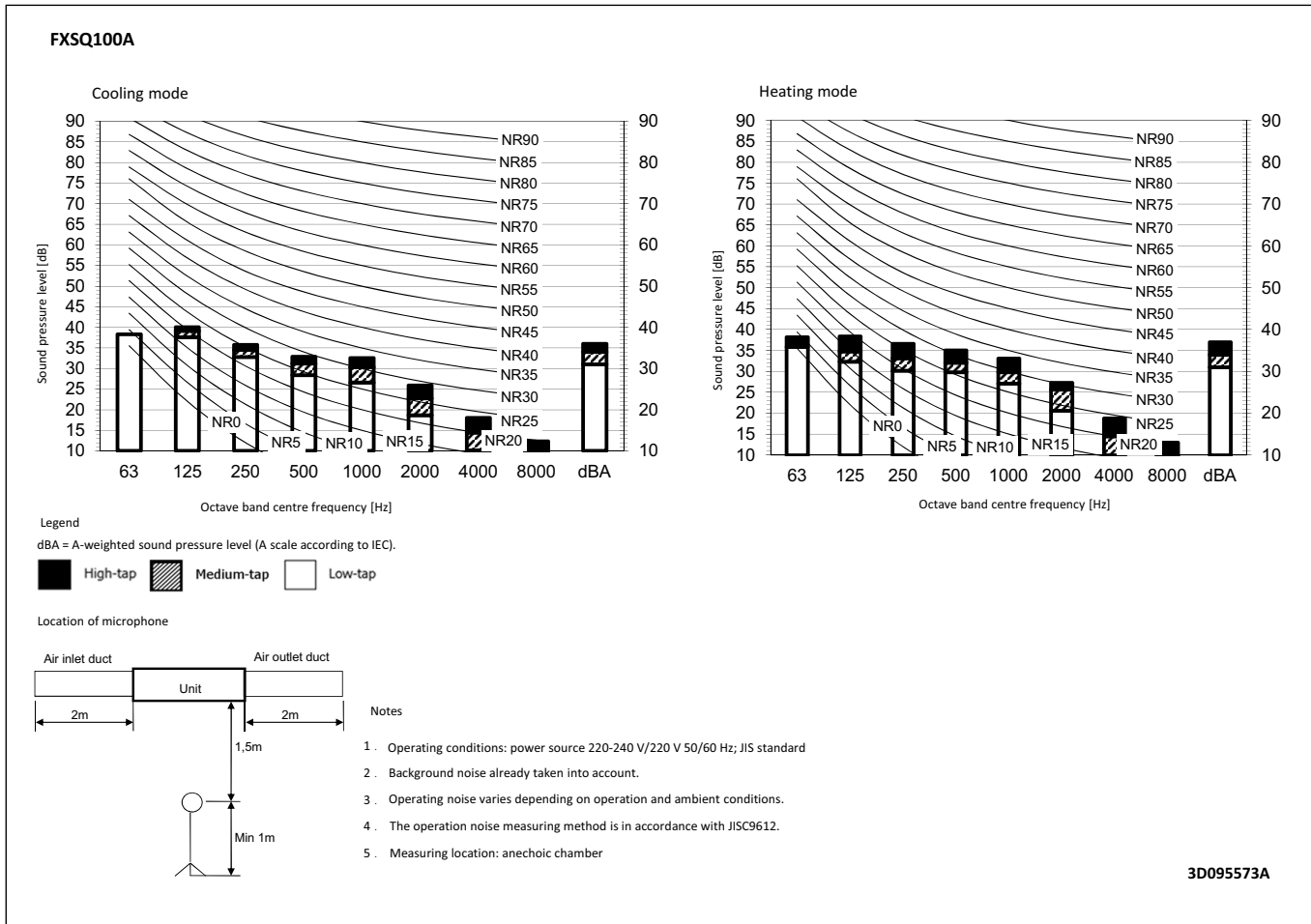
Notes

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

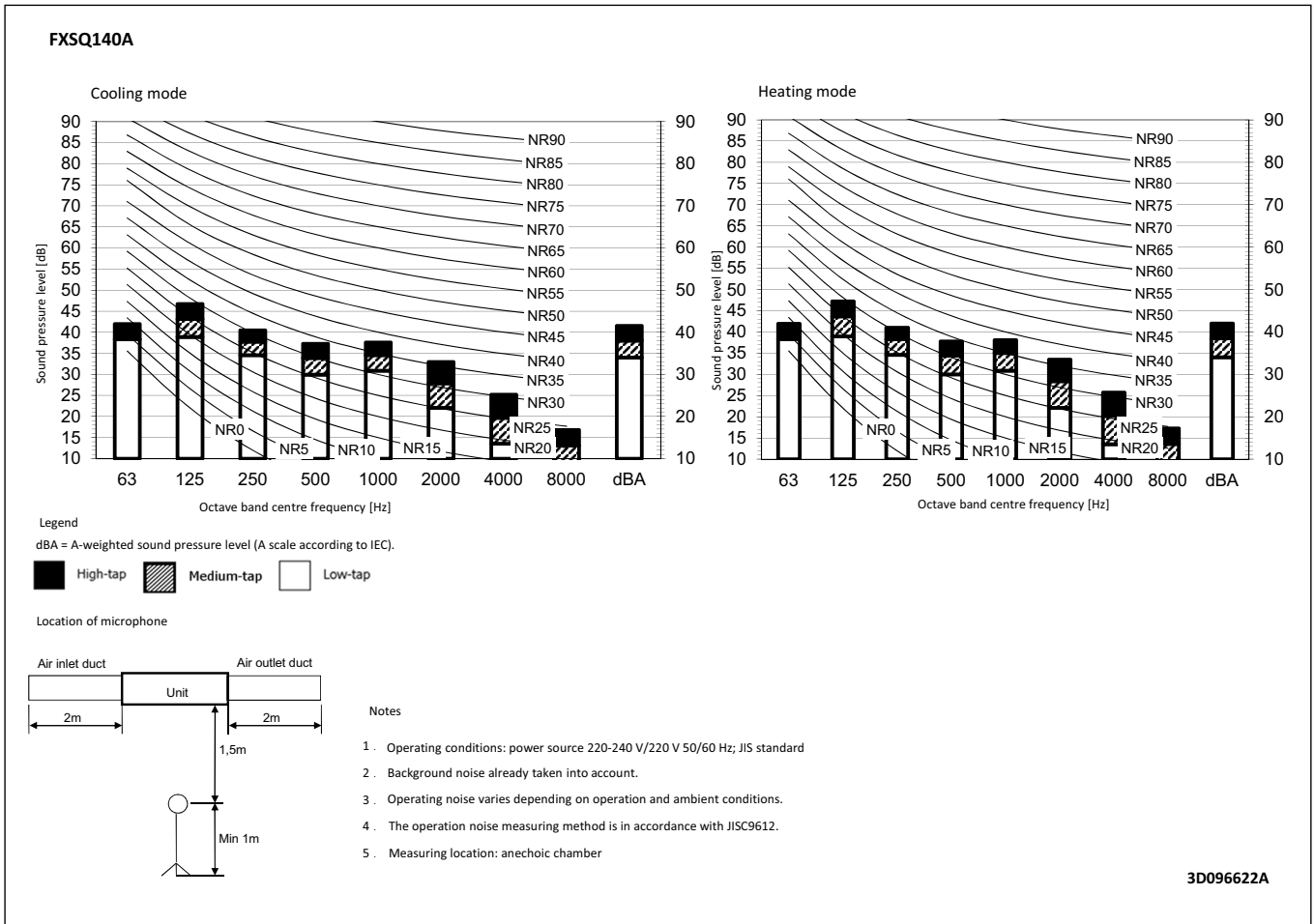
11 - 2 Sound Pressure Spectrum



11 Sound data

11 - 2 Sound Pressure Spectrum

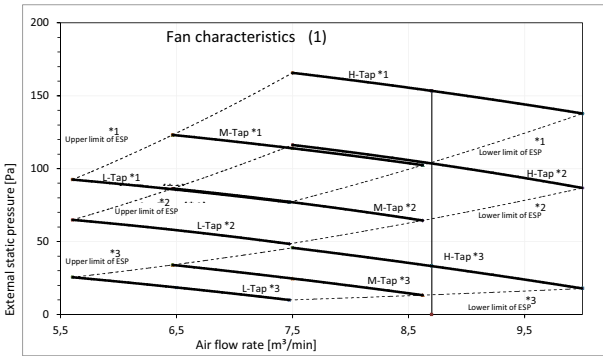
11



12 Fan characteristics

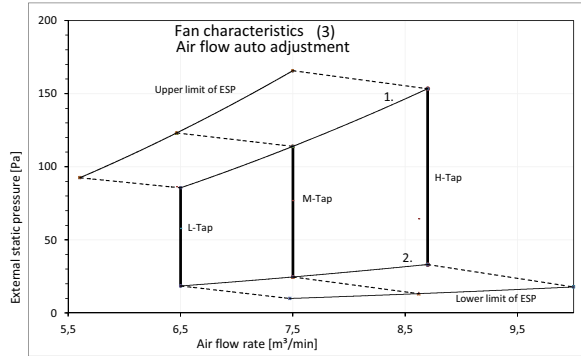
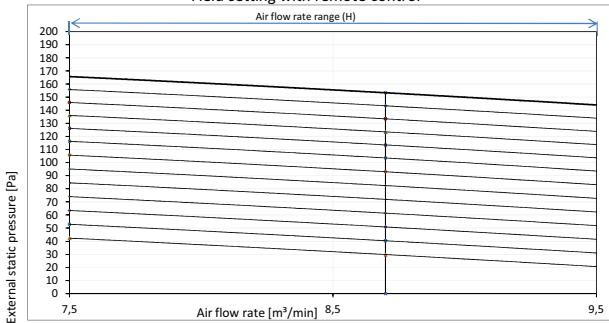
12 - 1 Fan Characteristics

FXSQ15A



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

Fan characteristics (2)
Field setting with remote control

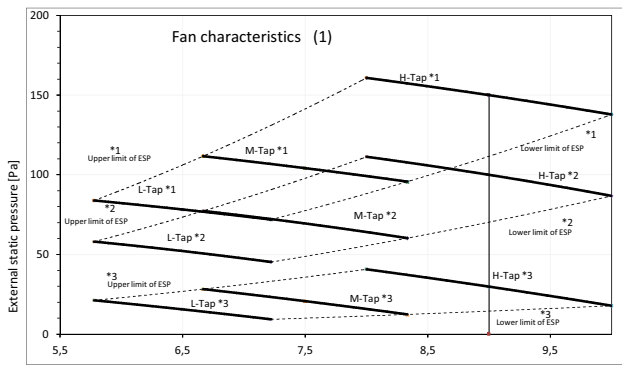


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

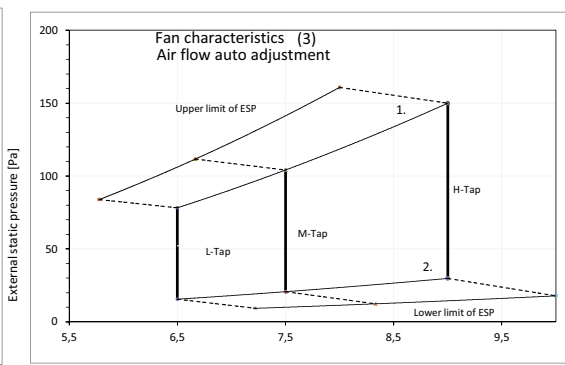
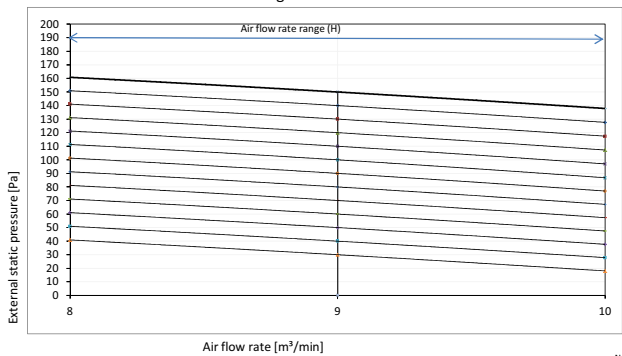
3D096999

FXSQ20-25A



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

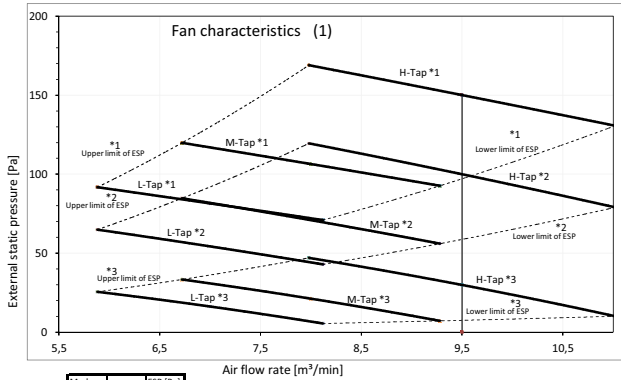
3D095680A

12 Fan characteristics

12 - 1 Fan Characteristics

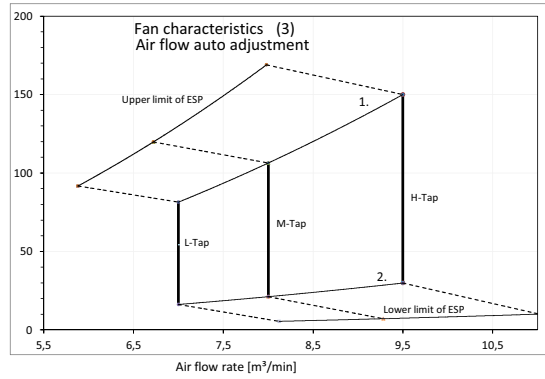
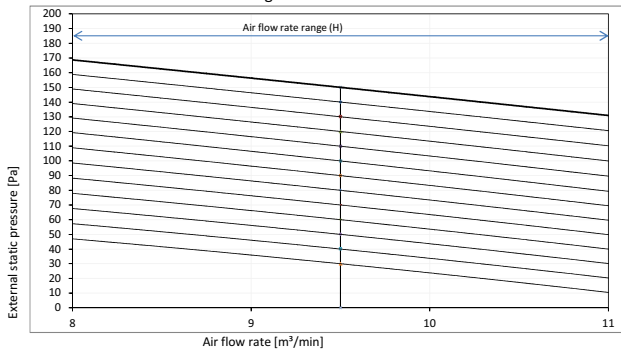
12

FXSQ32A



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

Fan characteristics (2)
Field setting with remote control

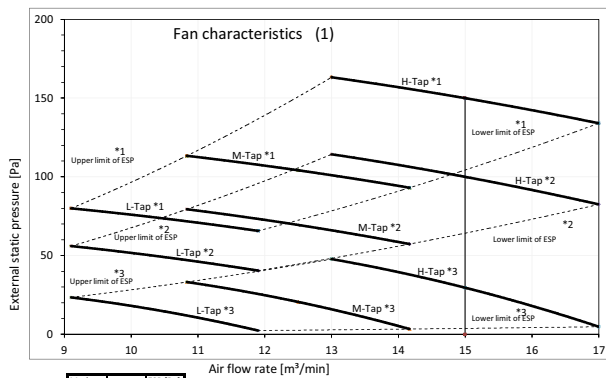


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

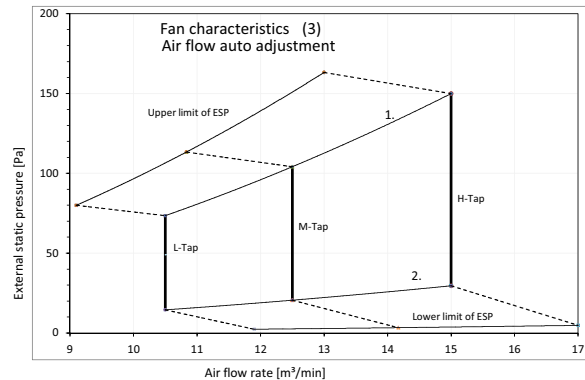
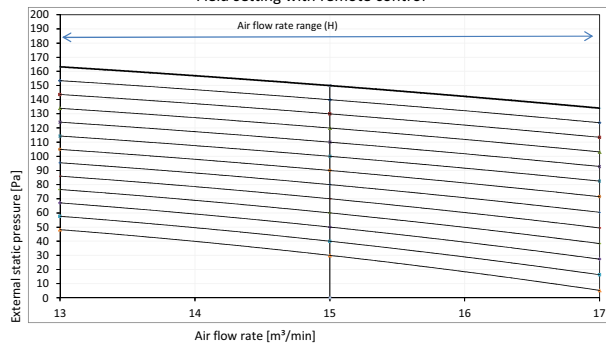
3D095681A

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

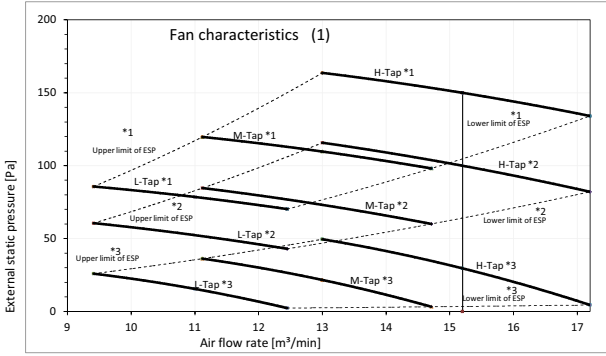
Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095682A

12 Fan characteristics

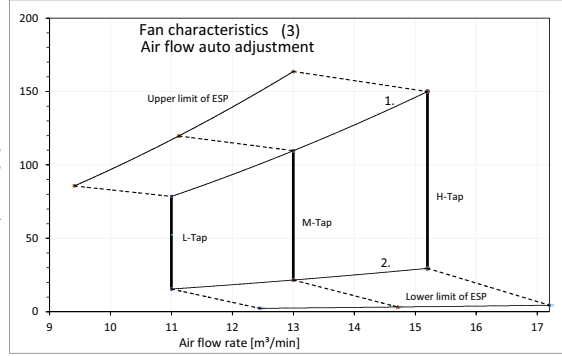
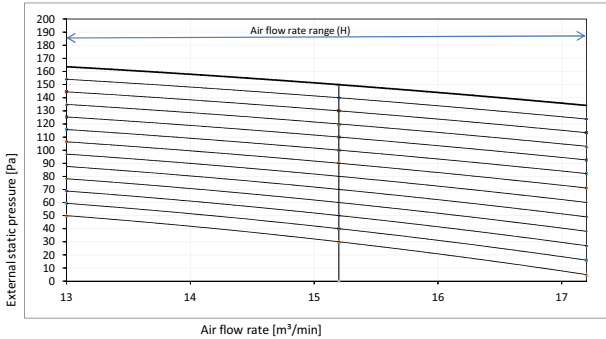
12 - 1 Fan Characteristics

FXSQ50A



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

Fan characteristics (2)
Field setting with remote control

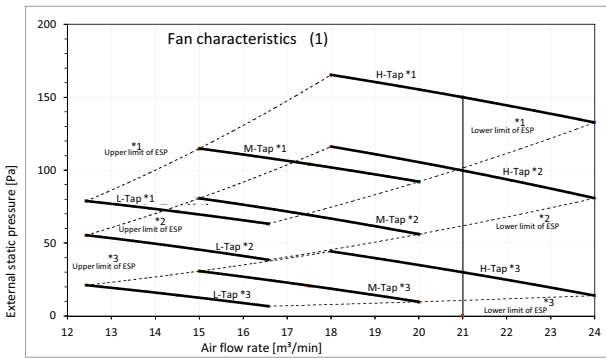


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

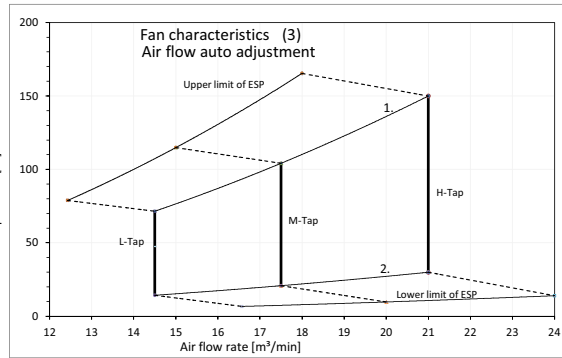
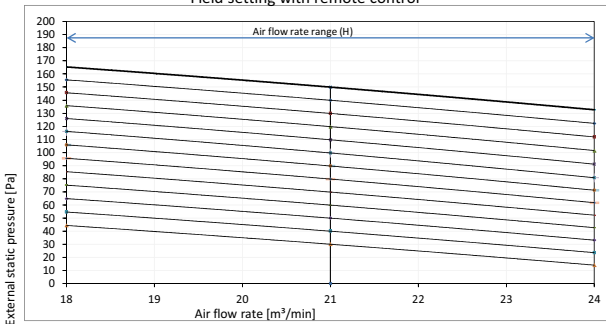
3D095688A

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

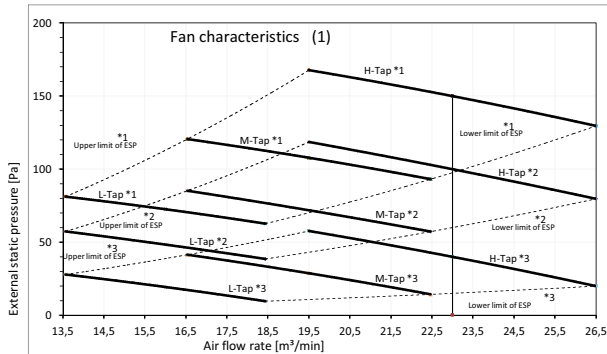
Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095690A

12 Fan characteristics

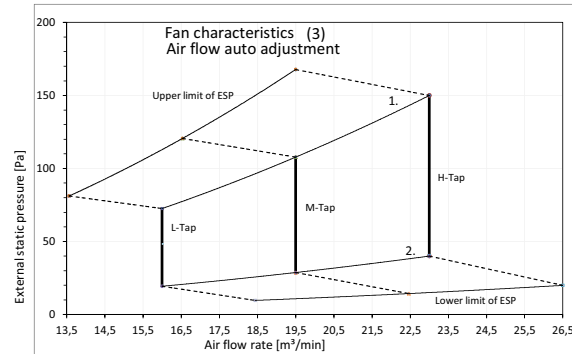
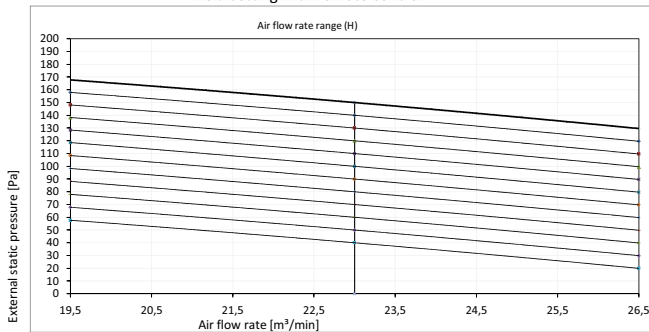
12 - 1 Fan Characteristics

FXSQ80A



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

Fan characteristics (2)
Field setting with remote control

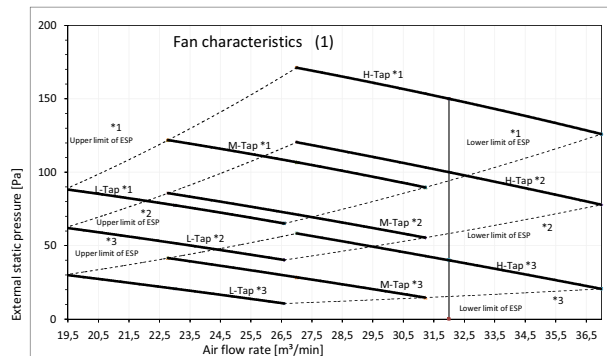


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

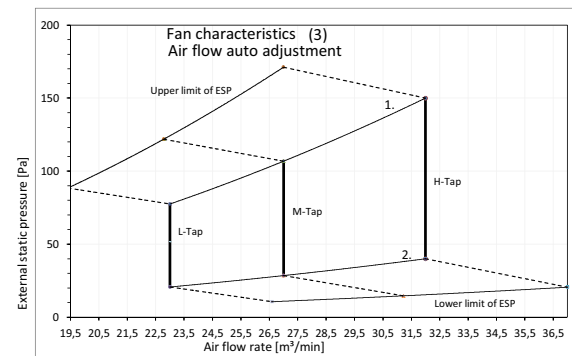
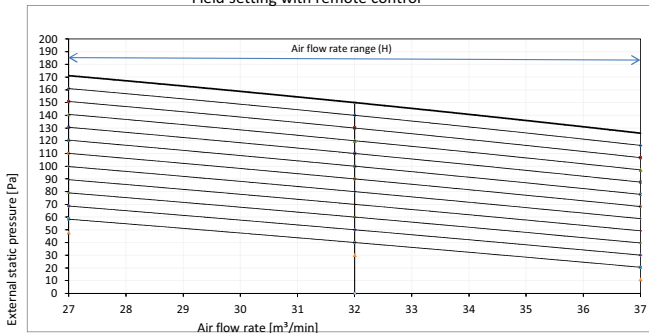
3D095692A

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

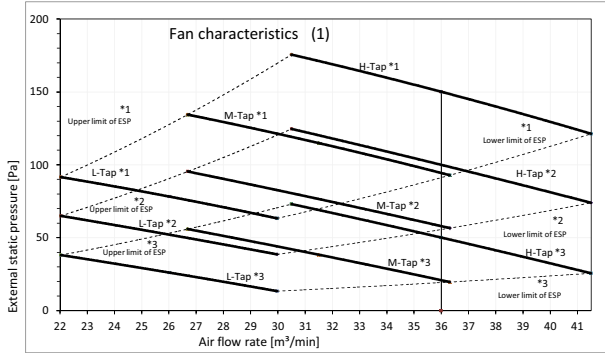
Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D095696A

12 Fan characteristics

12 - 1 Fan Characteristics

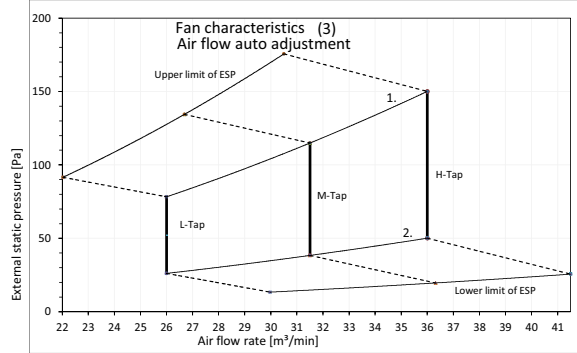
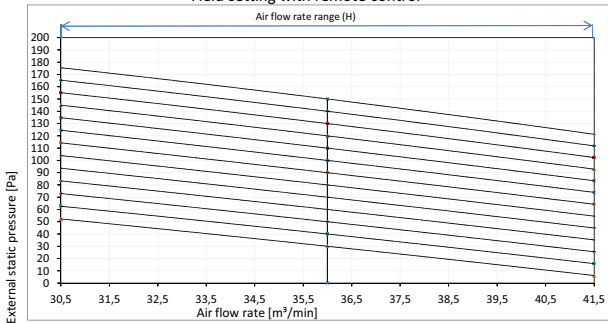
FXSQ125A



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

Fan characteristics (2)

Field setting with remote control

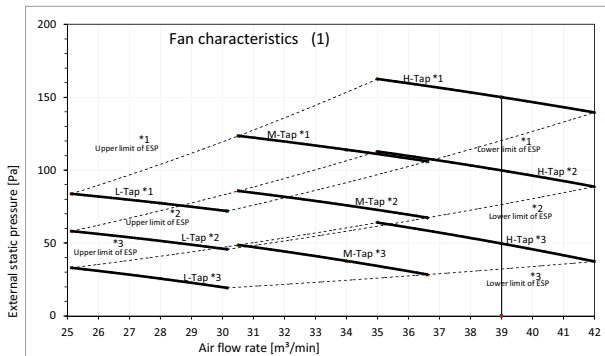


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

3D095697A

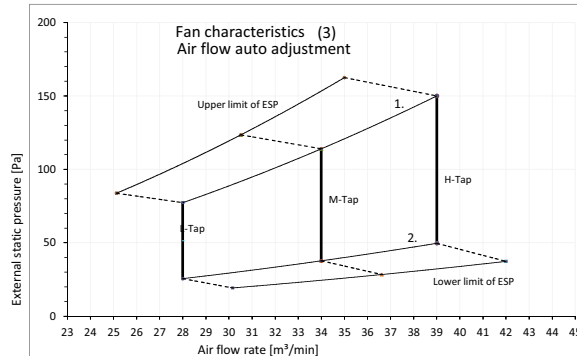
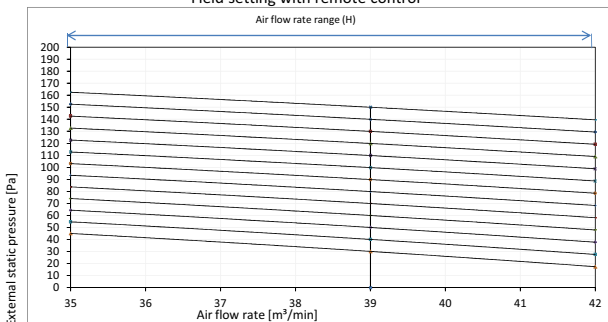
FXSQ140A



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

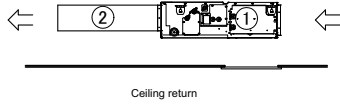
13 - 1 Installation Method

13

FXSQ-A

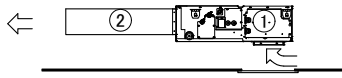
Installation methods

Rear suction



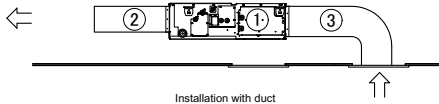
Ceiling return

Bottom suction

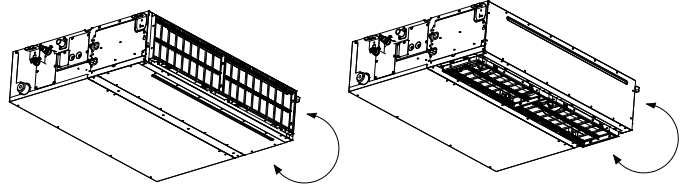


Ceiling return

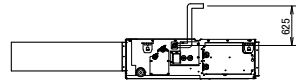
Rear suction



Installation with duct



Easy modification from rear suction to bottom suction



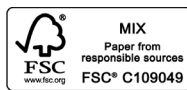
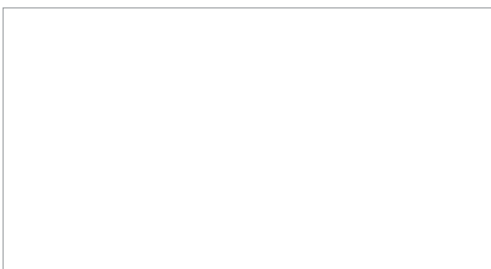
Height of drain pump outlet pipe

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

3D094912A



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