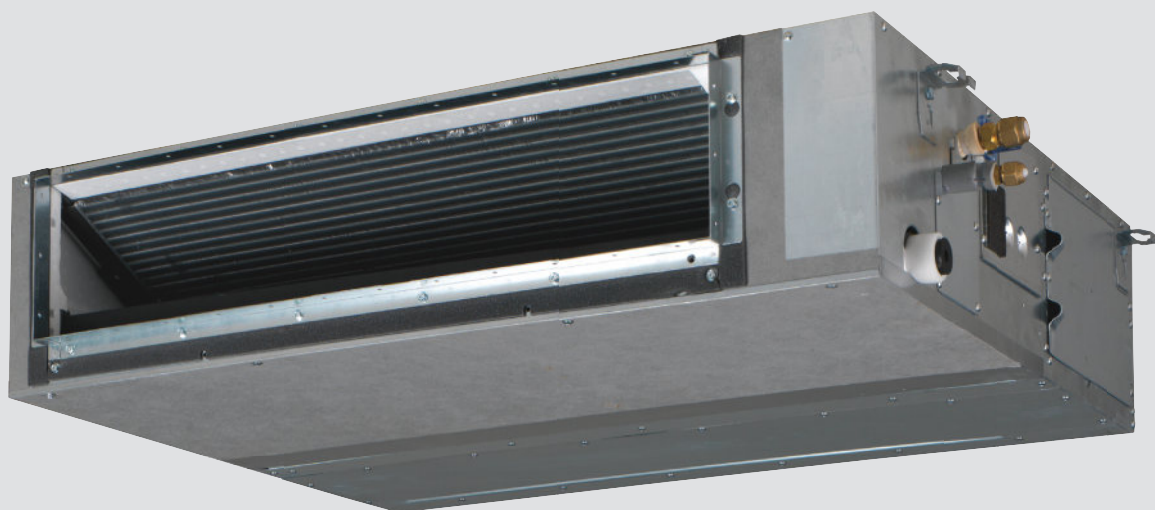


Air Conditioning Technical Data

FXSQ-A



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

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

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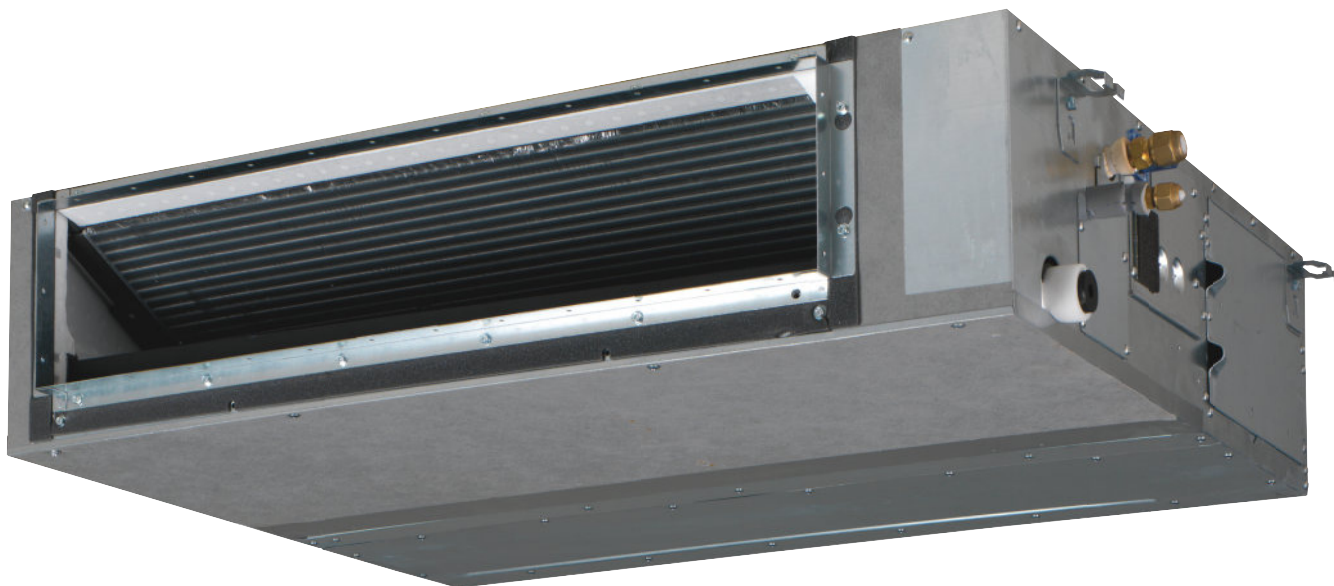
FXSQ-A

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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



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
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

2-2 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	m³/min	21.0		23		32		36		39			
			Nom.	m³/min	18		19.5		27		31.5		34			
			Low	m³/min	15		16		23		26		28			
		Heating	High	m³/min	21		23		32		36		39			
			Nom.	m³/min	18		19.5		27		31.5		34			
			Low	m³/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					IFM	Power input [W]	
	①	②	③	MCA	MFA	FLA	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					
	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					
	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					
	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					
	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					
	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					
	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					
	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					
	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					
	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					
	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					
	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

		15	20	25	32	40	50	63	80	100	125	140
FXSQ	Safety devices											
	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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Options

Options

5

FXSQ-A

Discharge	Description	Option kit	SA				VRV					
			FRQ350, FRQ500	FRQ600, FRQ710	FRQ1000	FRQ1250	FRQ1400	FXSQ15A, FXSQ20A, FXSQ25A, FXSQ30A, FXSQ35A, FXSQ40A, 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, FXSQ20A, FXSQ25A, FXSQ30A, FXSQ35A, FXSQ40A, FXSQ50A	FXSQ63A, FXSQ80A, FXSQ100A, FXSQ125A, FXSQ140A			
Wired remote control	BRC1D528		X	X	X	X	X	X	X	X	X	X
	BRC1E5A7		X(*7)	X(*7)	X(*7)	X(*7)	X(*7)	X(*7)	X(*7)	X(*7)	X(*7)	X(*7)
	BRC1E5B7		X(*8)	X(*8)	X(*8)	X(*8)	X(*8)	X(*8)	X(*8)	X(*8)	X(*8)	X(*8)
	BRC1E5C7		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
	DCS301BA51		X	X	X	X	X	X	X	X	X	X
	DCS601C51		X	X	X	X	X	X	X	X	X	X
	DST301BA51		X	X	X	X	X	X	X	X	X	X
Adaptor for wiring (interlock for fresh air intake fan)	KRP1B54		X	X	X	X	X	X	X	X	X	X
	KRP4A52		X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)
	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)
	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
	BRC4C66		X	X	X	X	X	X	X	X	X	X
	BRC2E5C7		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)
	BRC3E5C7		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	BRC501-4B		X	X	X	X	X	X	X	X	X	X
	KJB311A						X	X	X	X	X	X
	KJB212A						X	X	X	X	X	X
	KJB411A		X	X	X	X	X	X	X	X	X	X
Electrical box with earth terminal (3 blocks)	DTA10A61						X	X	X	X	X	X
	DTA11A61						X(*4)	X(*4)	X(*4)	X(*4)	X(*4)	X(*4)
	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)
	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.
- (*3) These options require mounting plate KRP4A96.
- (*4) Maximally 2 optional PCBs can be mounted.
- (*5) This option needs to be installed together with installation box KRP1B101/KRP1BA101.
- (*6) Only possible in combination with remote control BRC2/3E52C7, BRC1E53A/B/C7.
- (*7) 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.
- (*8) Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.
- (*9) Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.
- (*10) Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.
- (*11) Language pack 3 of controller BRCE1E53C7 is different from that of controller BRC2/3E52C7.
- (*12) 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

FXSQ-A

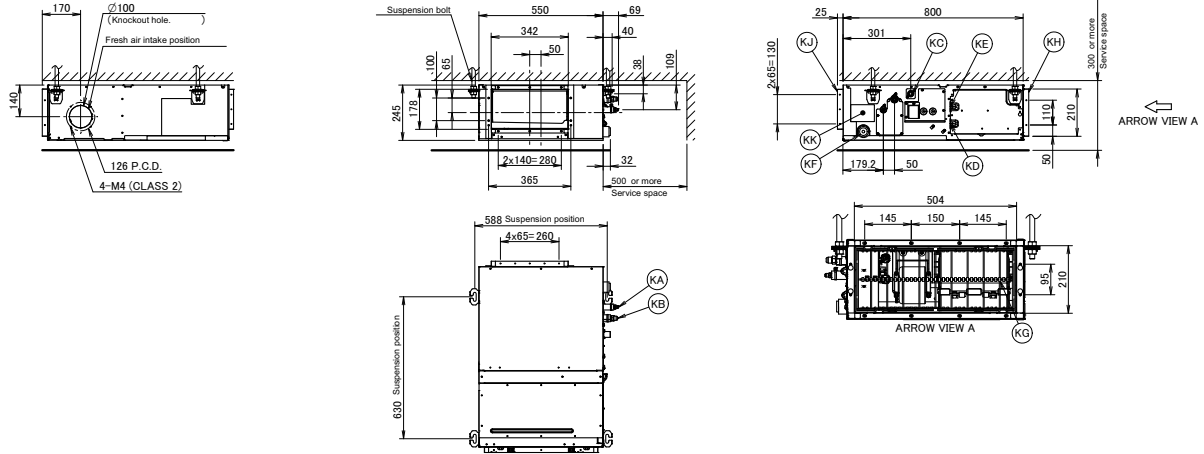
Unit size	Outdoor air temp.		Indoor air temp.: °CDB					
	°CDB	°CWB	16.0 kW	18.0 kW	20.0 kW	21.0 kW	22.0 kW	24.0 kW
15	7.0	6.0	2.0	2.0	1.9	1.8	1.8	1.7
20	7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
25	7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
32	7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
40	7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
50	7.0	6.0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

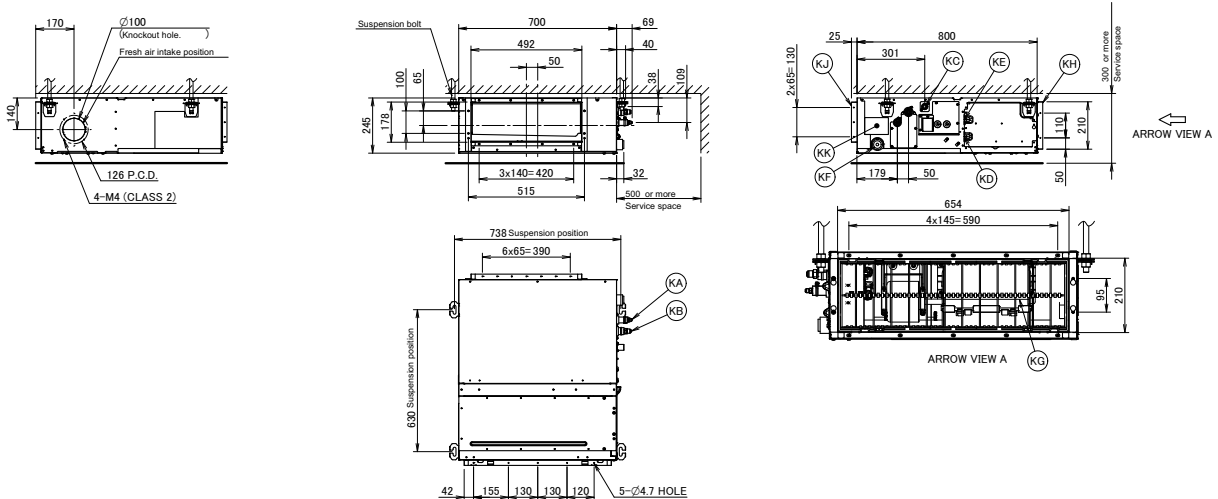


Item	Name	Description
KA	Liquid pipe connection port	Ø6.35 flared connection
KB	Gas pipe connection port	Ø12.70 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side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

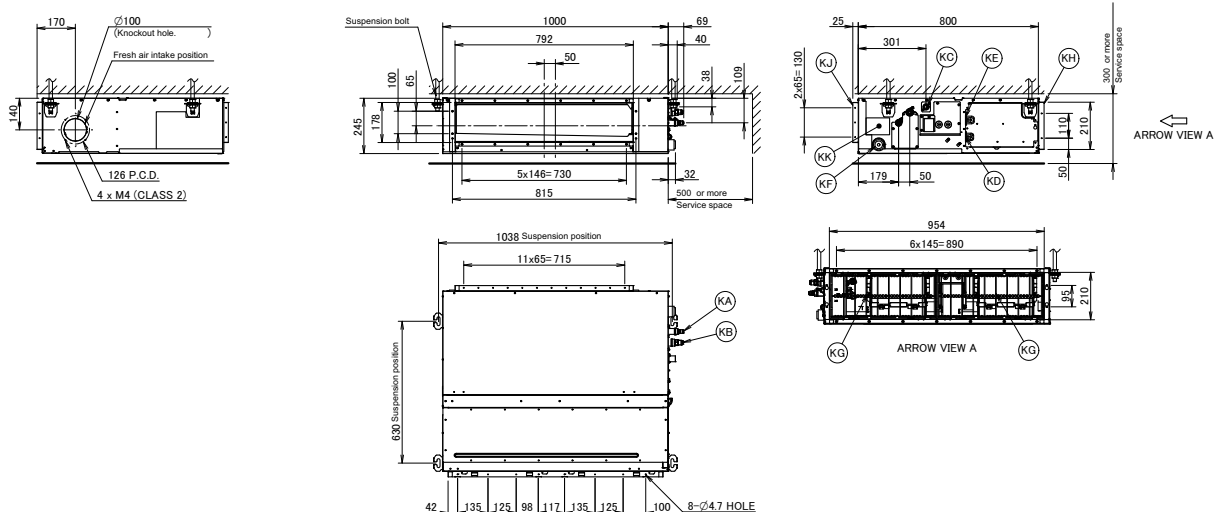
Notes
 1. When installing optional accessories, refer to their respective documentation.
 2. The ceiling depth varies according to the documentation of the specific system.

3D094919A

7 Dimensional drawings

7 - 1 Dimensional Drawings

FXSQ63-80A



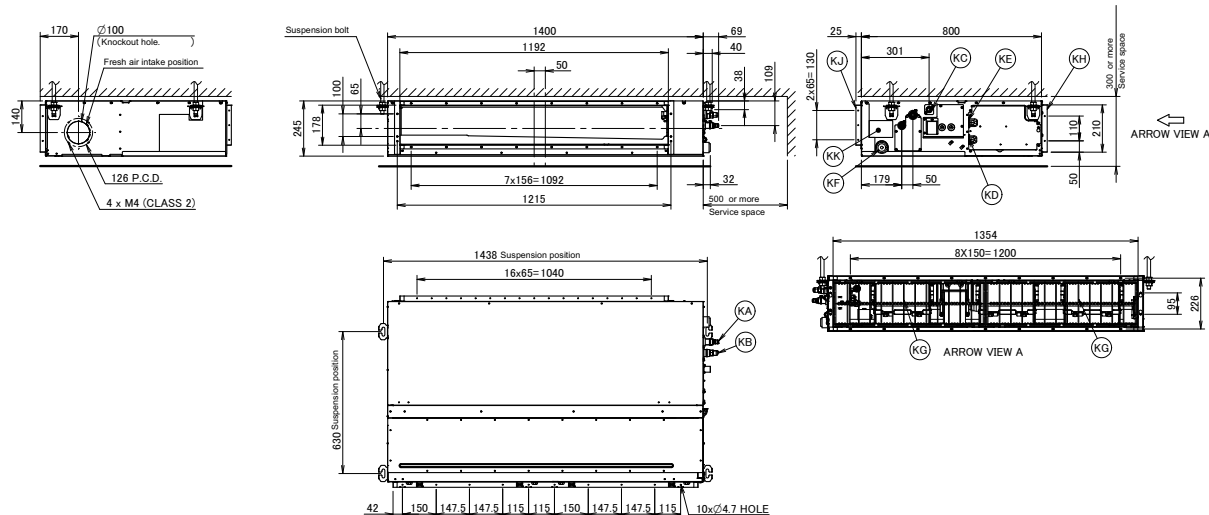
Item	Name	Description
KA	Liquid pipe connection port	Ø9.52 flared connection
KB	Gas pipe connection port	Ø15.90 flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side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

Notes

- When installing optional accessories, refer to their respective documentation.
- 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

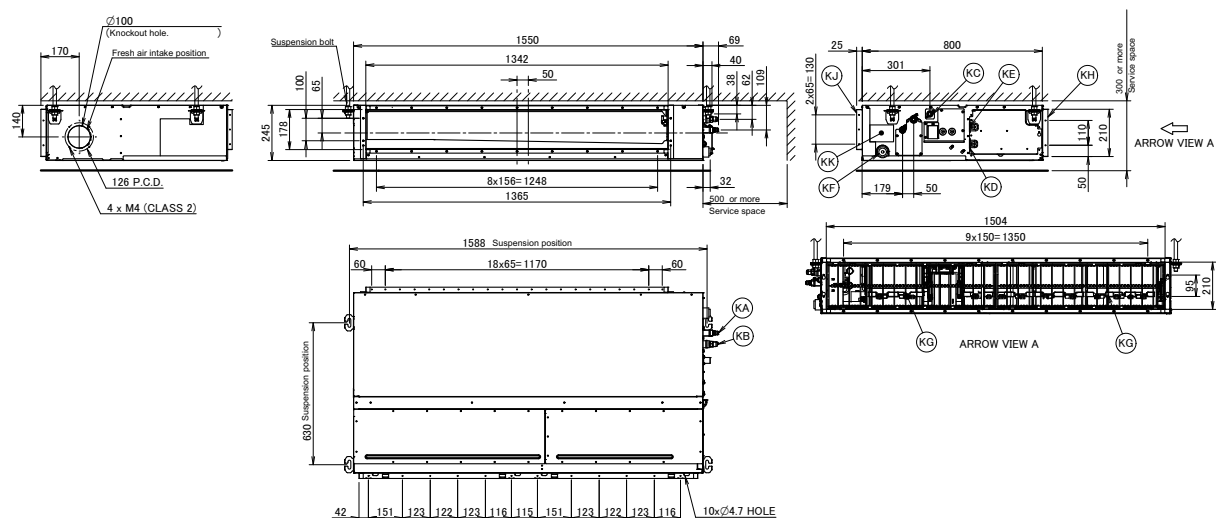
- When installing optional accessories, refer to their respective documentation.
- The ceiling depth varies according to the documentation of the specific system.

3D094917A

7 Dimensional drawings

7 - 1 Dimensional Drawings

FXSQ140A



Item	Name	Description
KA	Liquid pipe connection port	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.

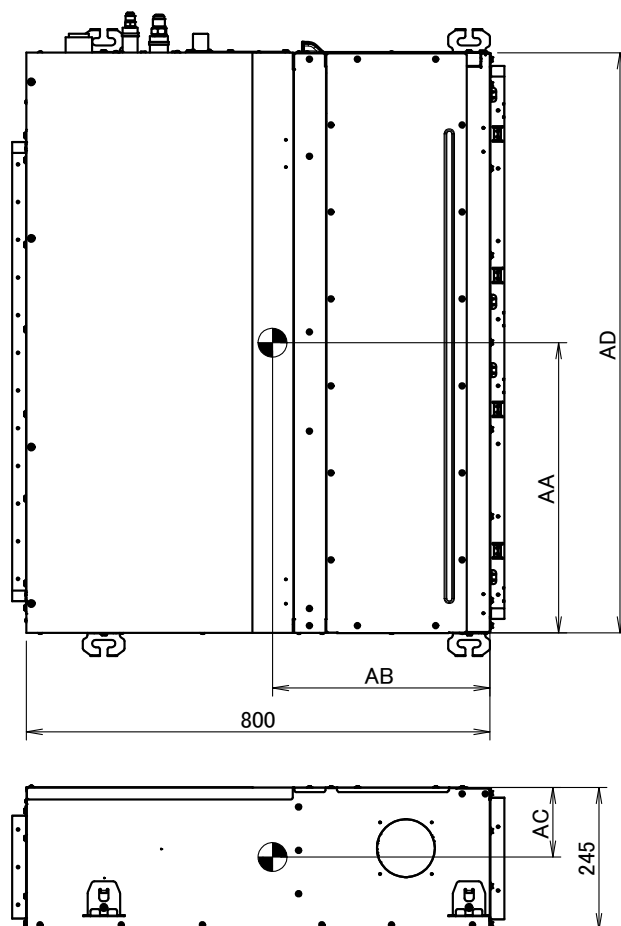
3D094928A

8 Centre of gravity

8 - 1 Centre of Gravity

FXSQ-A

8



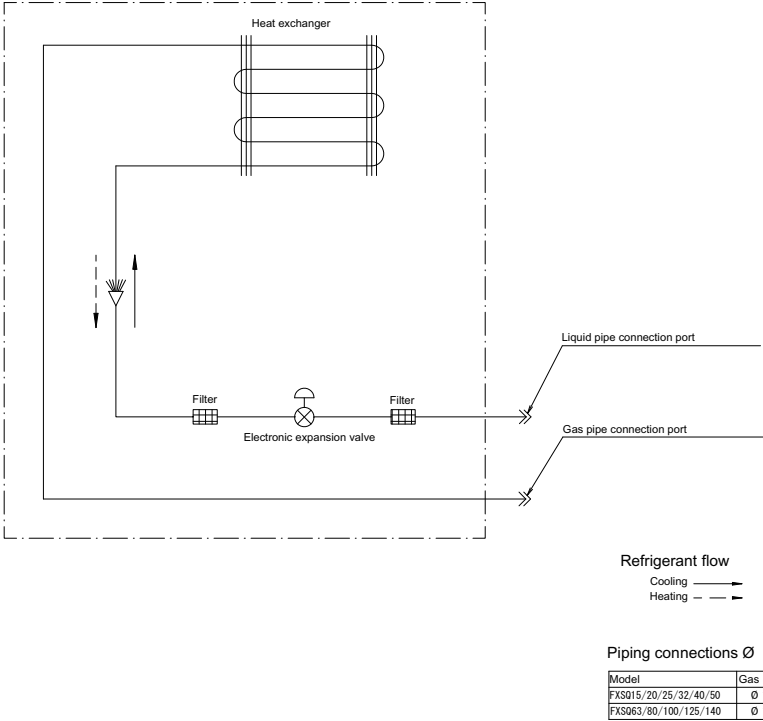
Applicable models	AA	AB	AC	AD
FXSQ15/20/25/32	305	365	145	550
FXSQ40/50	410	375	125	700
FXSQ63/80	525	380	125	100
FXSQ100/125	760	390	115	1400
FXSQ140	870	385	120	1550

4D096407A

9 Piping diagrams

9 - 1 Piping Diagrams

FXSQ-A



3D090269A

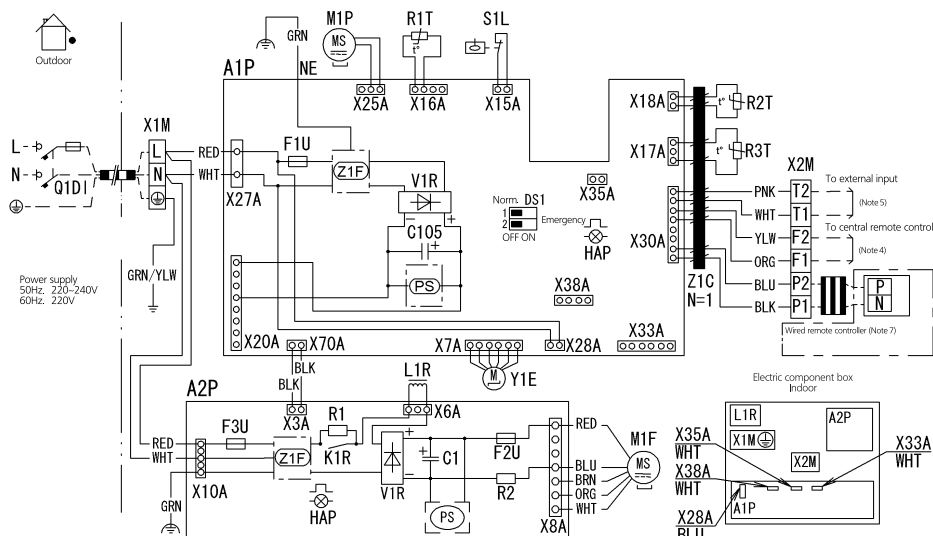
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

10

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
Z1C	Ferrite core
Z2C	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)



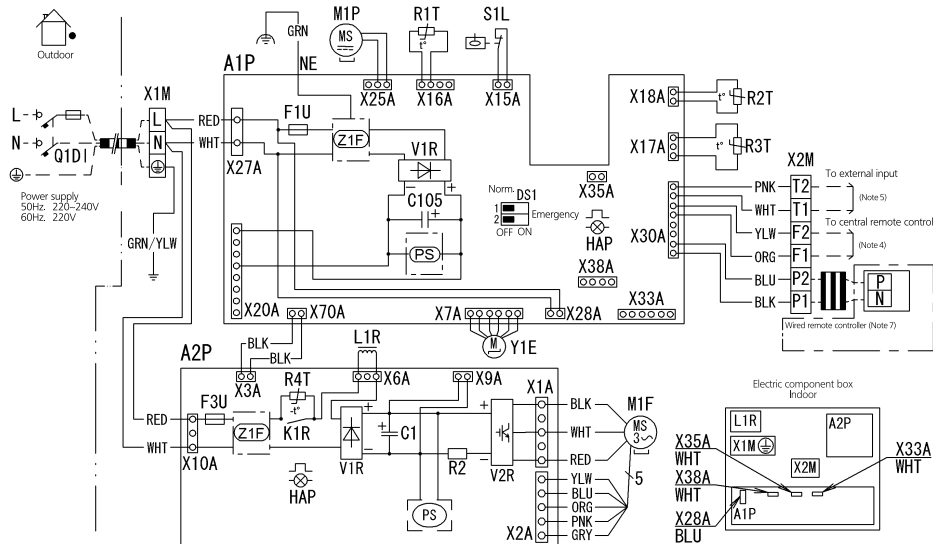
Notes

- : Screw terminal, ■ : Connector, - : Field wiring
- In case of a multi-indoor-unit-system with parallel operation, refer to the documentation for the indoor units.
- For details, refer to the wiring diagram attached to the outdoor unit.
- When using a central remote control, connect it to the unit according to the installation manual.
- 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
- For a multi-indoor-unit-system with parallel operation, the connection ratio (number of indoor units you can connect to the outdoor unit) is different. Before connecting, refer to the Technical data of the General catalogue.
- For how to switch between the main unit and the sub units, refer to the installation manual of the remote control.
- 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)
R4T	Thermistor NTC (current limiting)
S1L	Float switch
V1R	Diode bridge
V2R	Power module
PS	Switching power supply
X1M	Terminal strip (Power supply)
X2M	Terminal block (Control)
Y1E	Electronic expansion valve coil
Z1F	Noise filter
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

- : Screw terminal, ■ : Connector, - : Field wiring
- In case of a multi-indoor-unit-system with parallel operation, refer to the documentation for the indoor units.
- For details, refer to the wiring diagram attached to the outdoor unit.
- When using a central remote control, connect it to the unit according to the installation manual.
- 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
- For a multi-indoor-unit-system with parallel operation, the connection ratio (number of indoor units you can connect to the outdoor unit) is different. Before connecting, refer to the Technical data of the General catalogue.
- For how to switch between the main unit and the sub units, refer to the installation manual of the remote control.
- Colours: BLK:Black; RED:Red; BLU:Blue; WHT:White; GRN:Green; YLW:Yellow; BRN:Brown; ORG:Orange; PNK:Pink

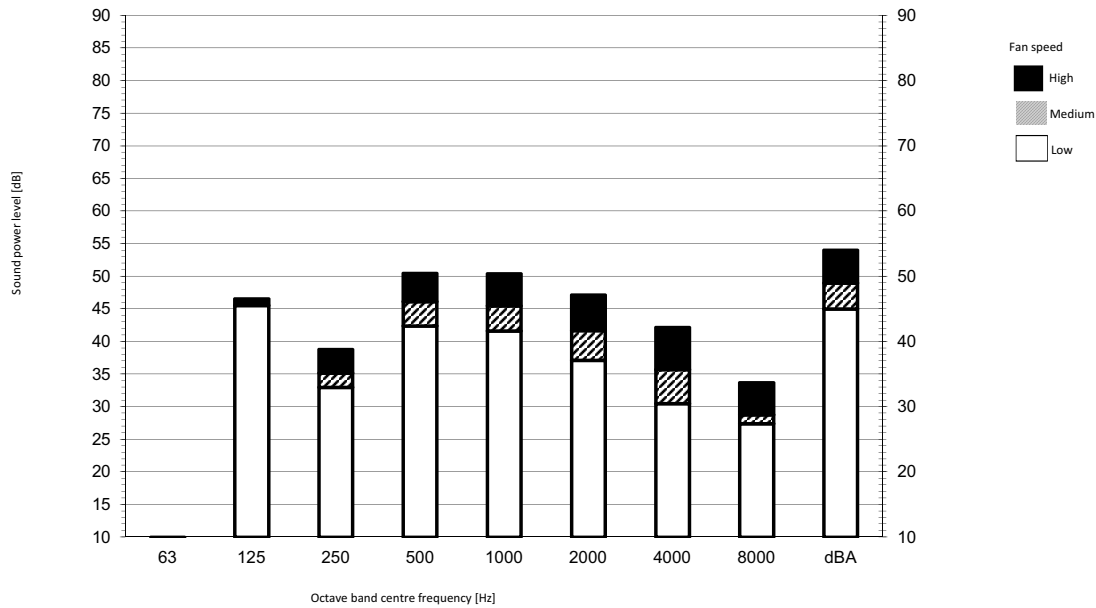
3D090351

11 Sound data

11 - 1 Sound Power Spectrum

FXSQ15A

Cooling mode



- Notes
1. dBA = A-weighted sound power level (A scale according to IEC).
 2. Reference acoustic intensity $0\text{ dB} = 10^{-6}\mu\text{W/m}^2$
 3. Measured according to ISO 3744
 4. Editable data for this drawing are available in the GDE (E-BOM) system.

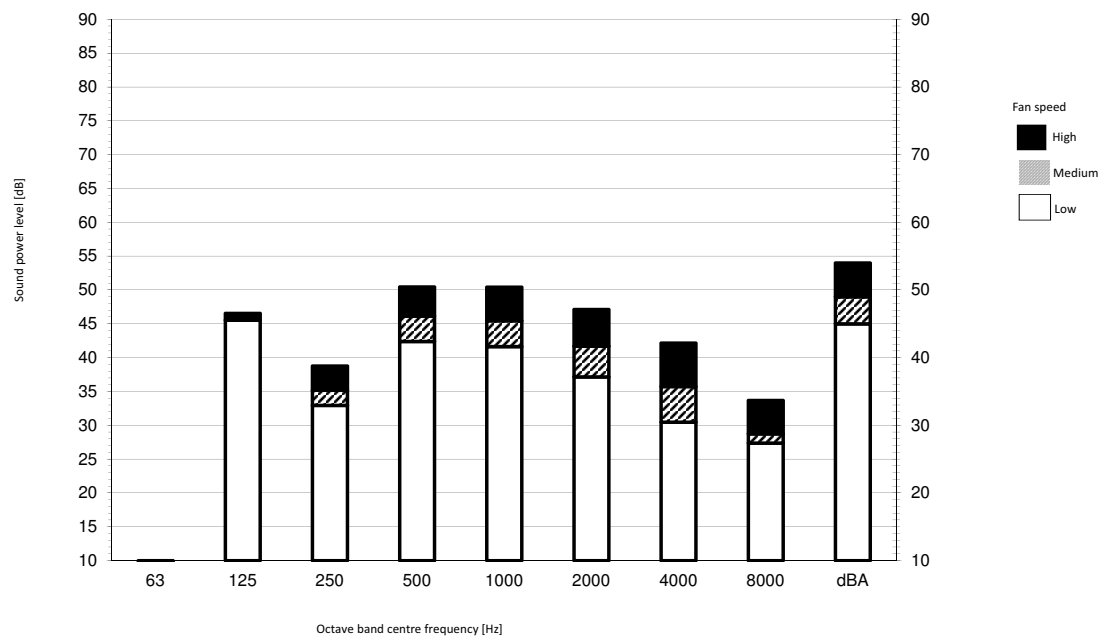
3D095590A

11 Sound data

11 - 1 Sound Power Spectrum

FXSQ20-25A

Cooling mode



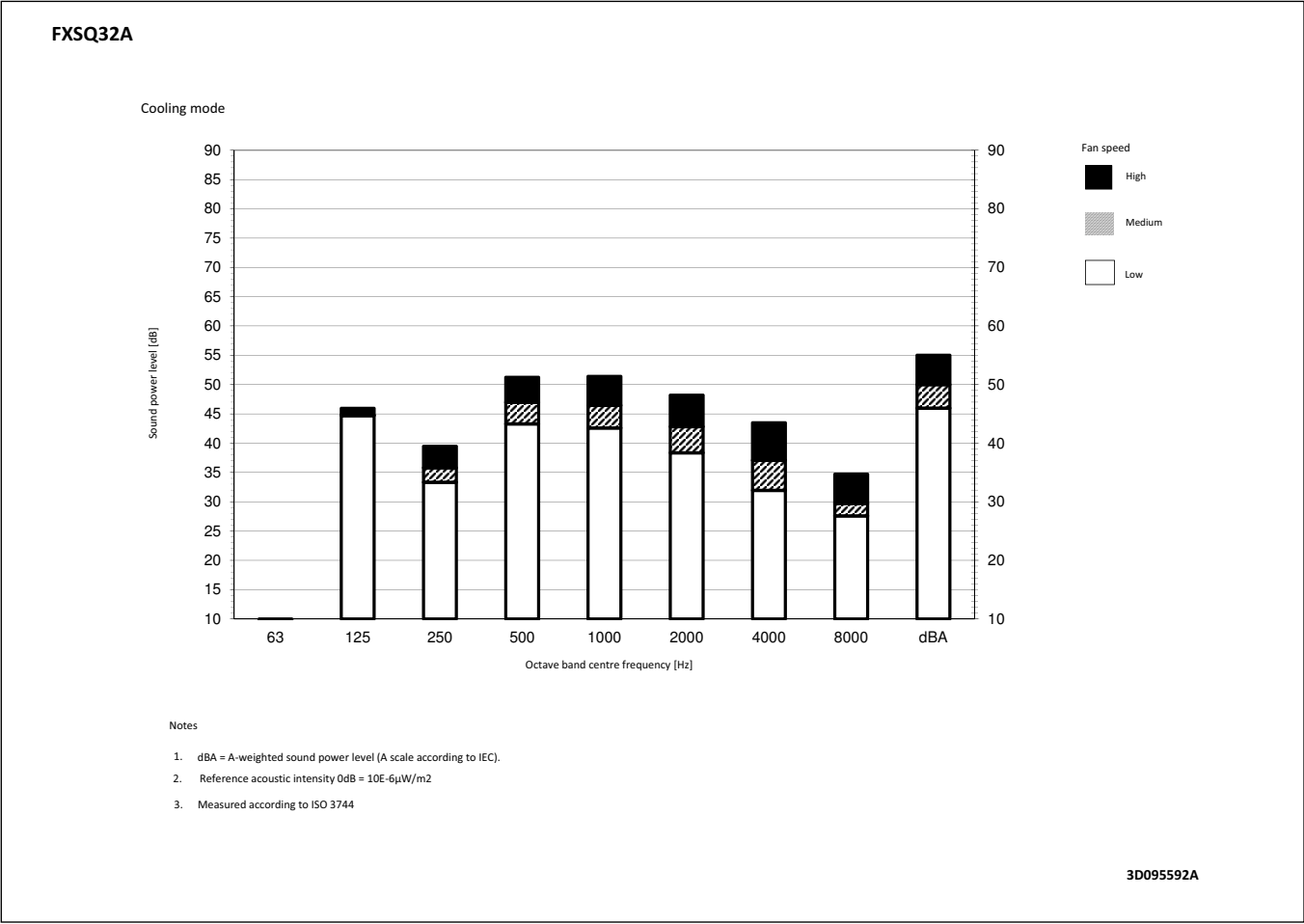
Notes

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

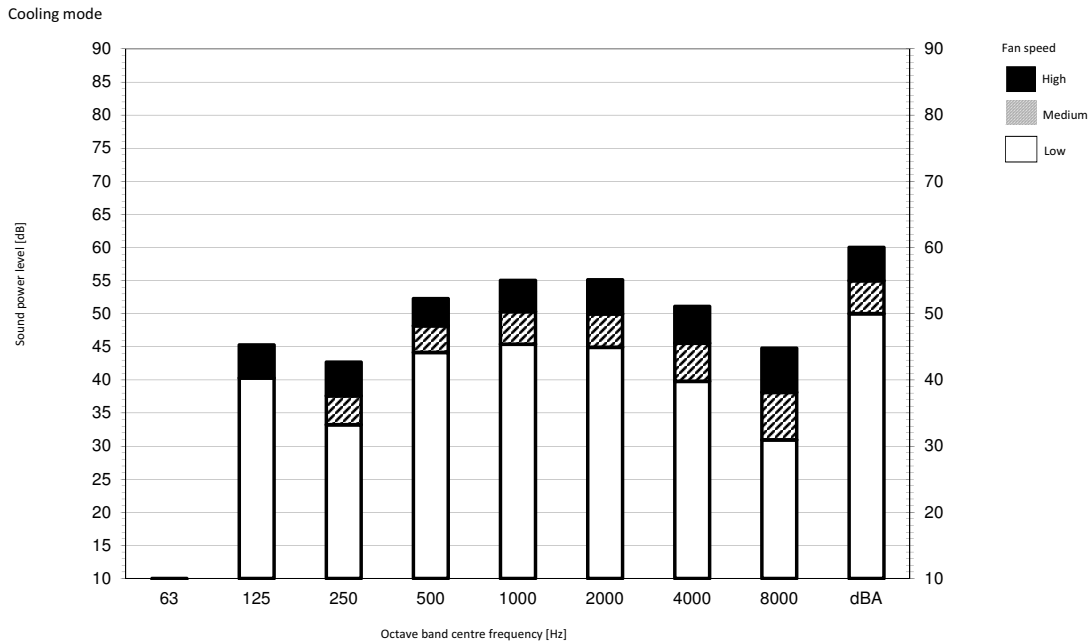
11 - 1 Sound Power Spectrum



11 Sound data

11 - 1 Sound Power Spectrum

FXSQ40-50A



Notes

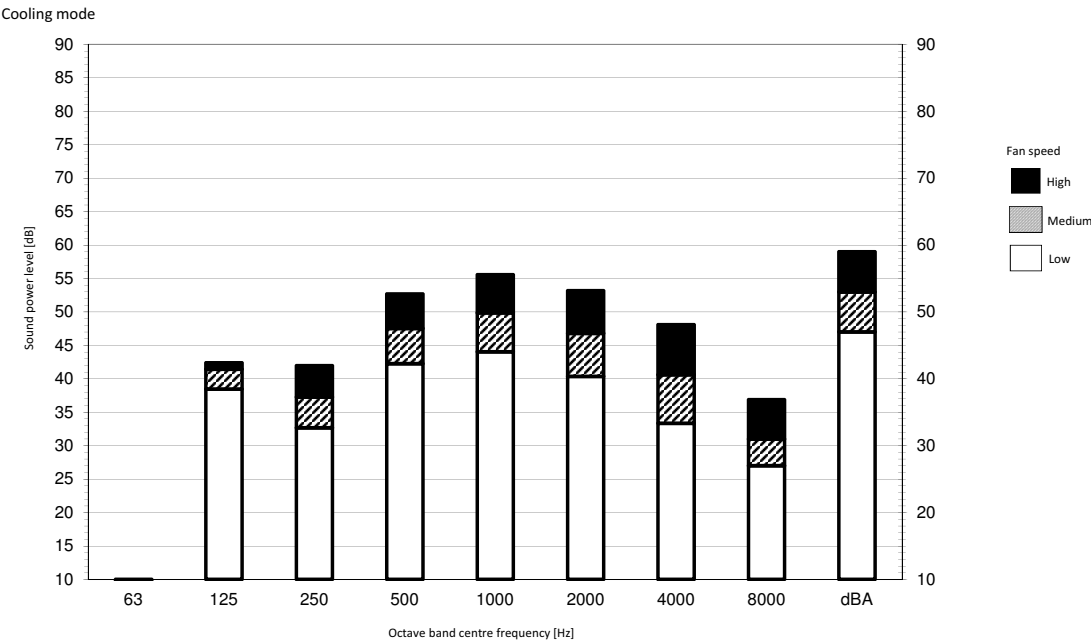
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity $0\text{dB} = 10\text{E-}6\mu\text{W/m}^2$
3. Measured according to ISO 3744

3D095579A

11 Sound data

11 - 1 Sound Power Spectrum

FXSQ63A



- 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

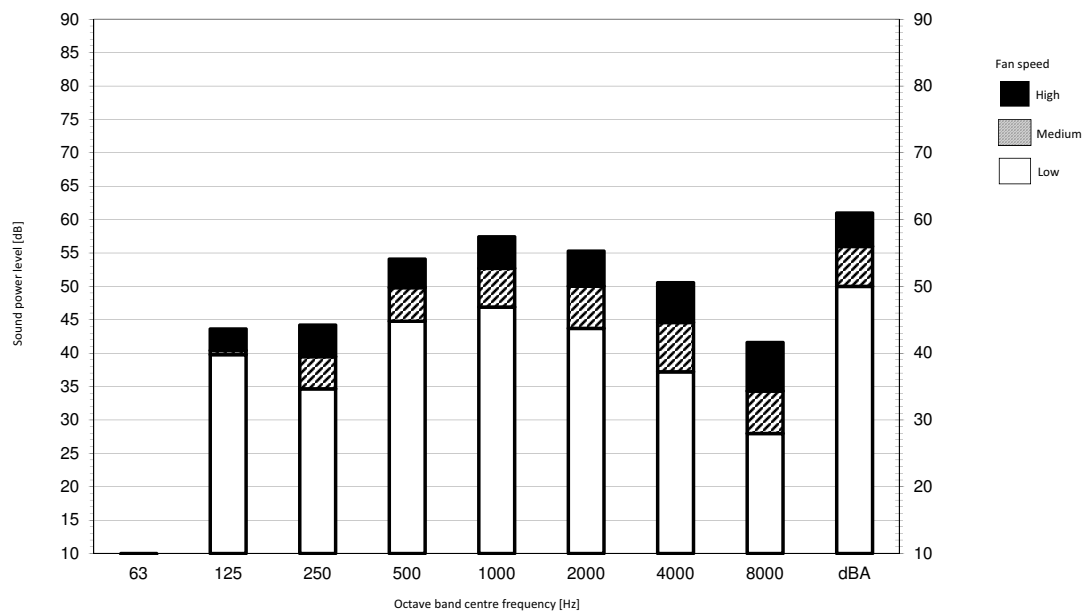
3D095593A

11 Sound data

11 - 1 Sound Power Spectrum

FXSQ80A

Cooling mode



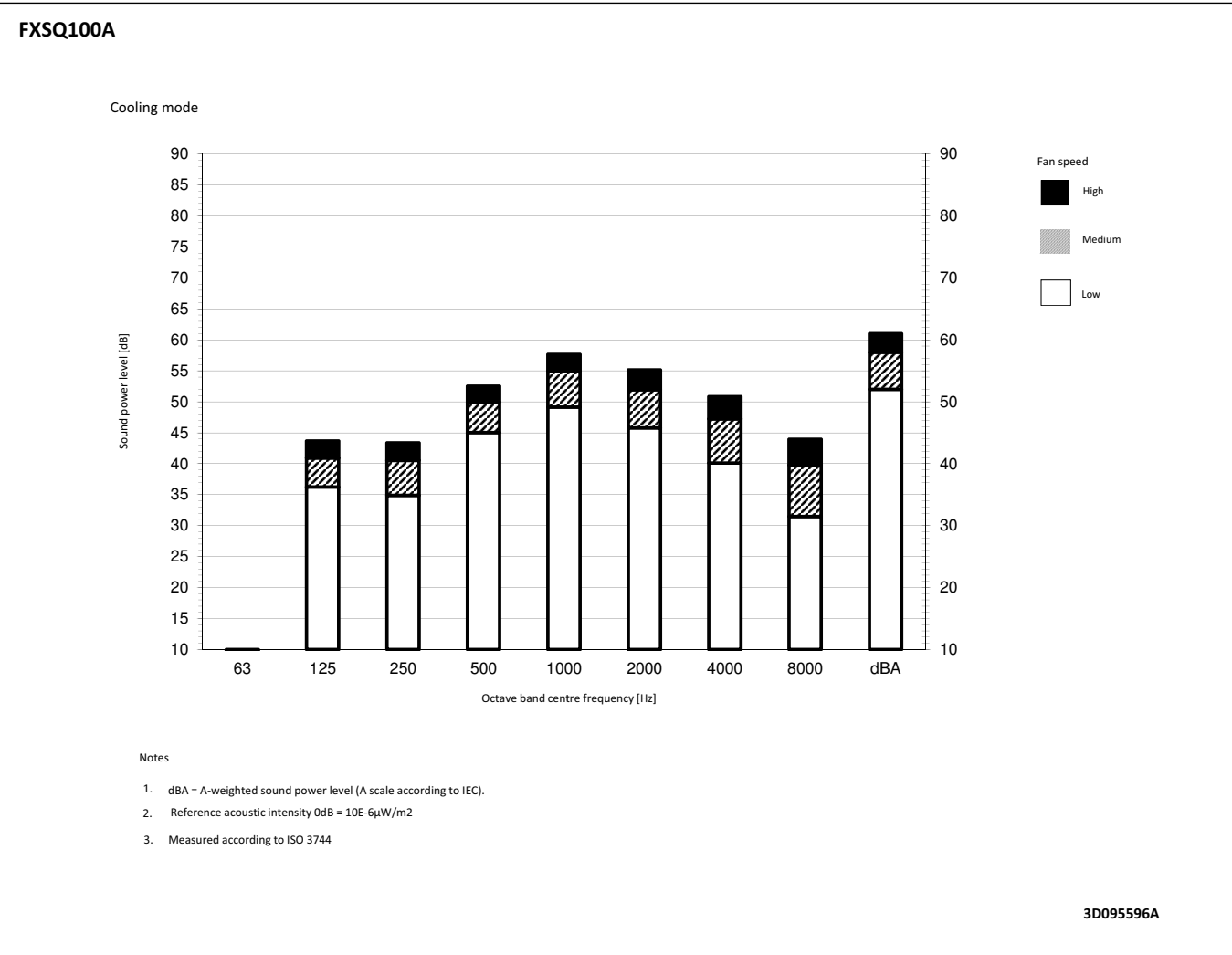
Notes

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

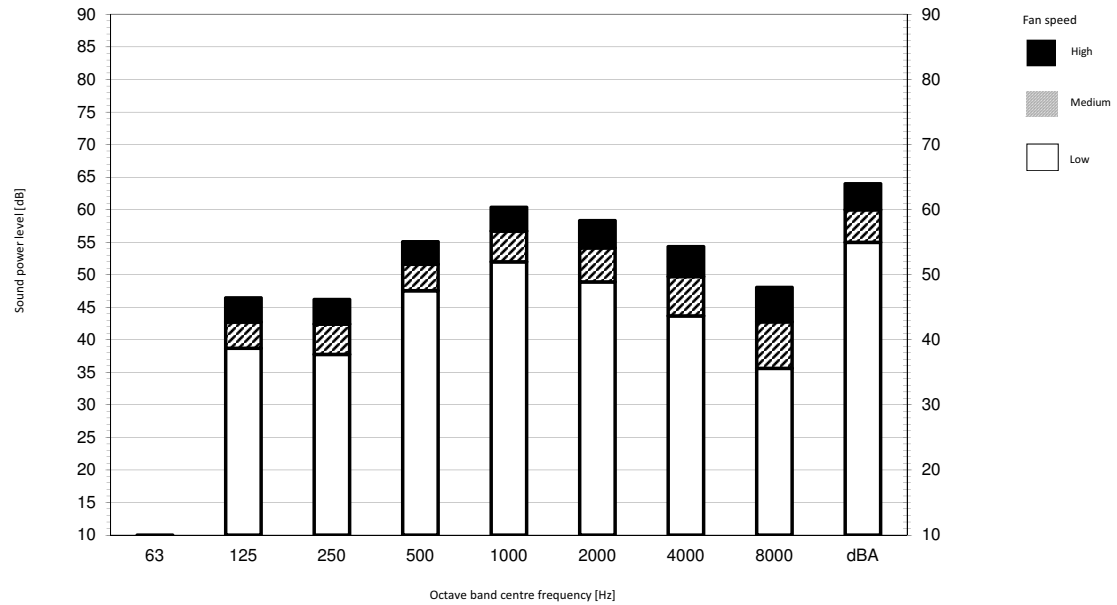


11 Sound data

11 - 1 Sound Power Spectrum

FXSQ125A

Cooling mode



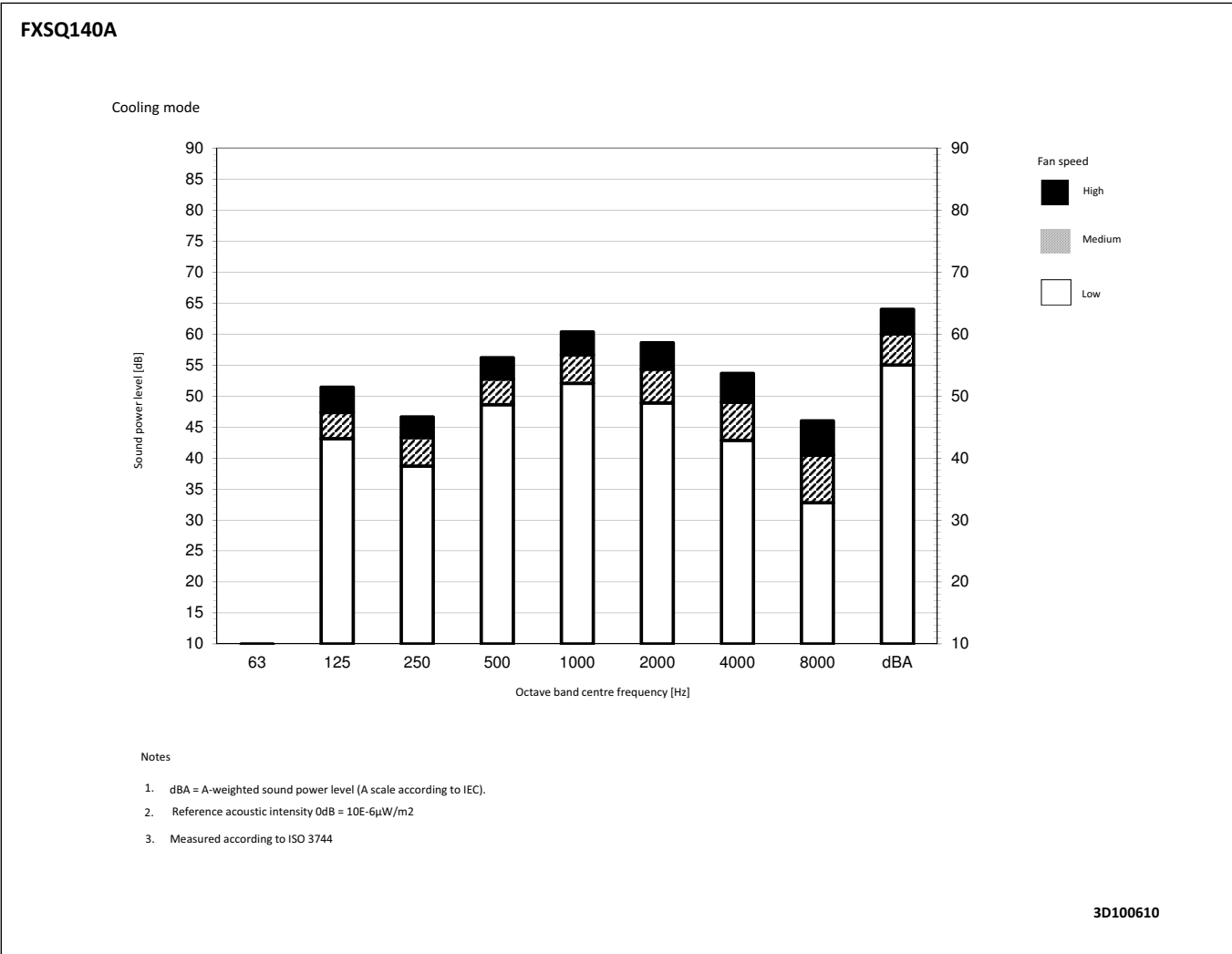
Notes

- 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

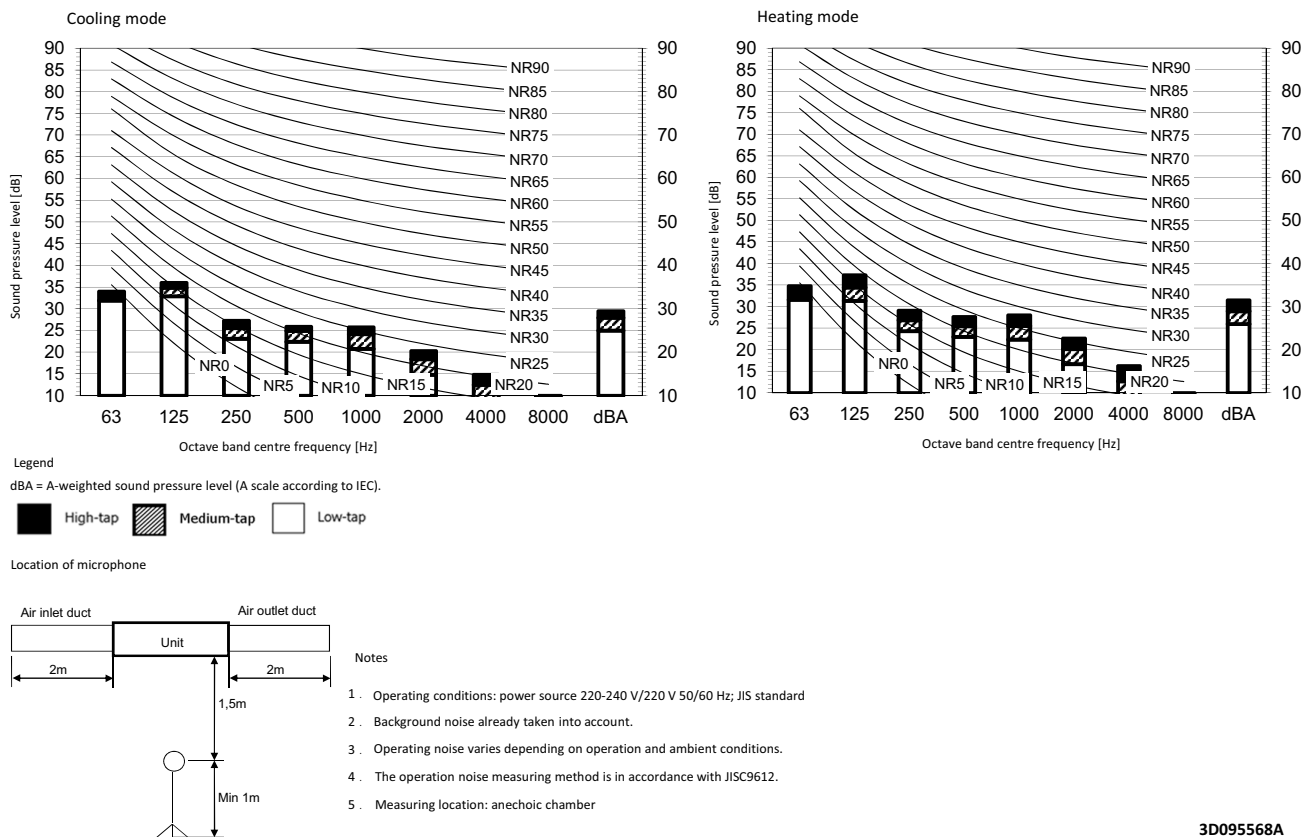


11 Sound data

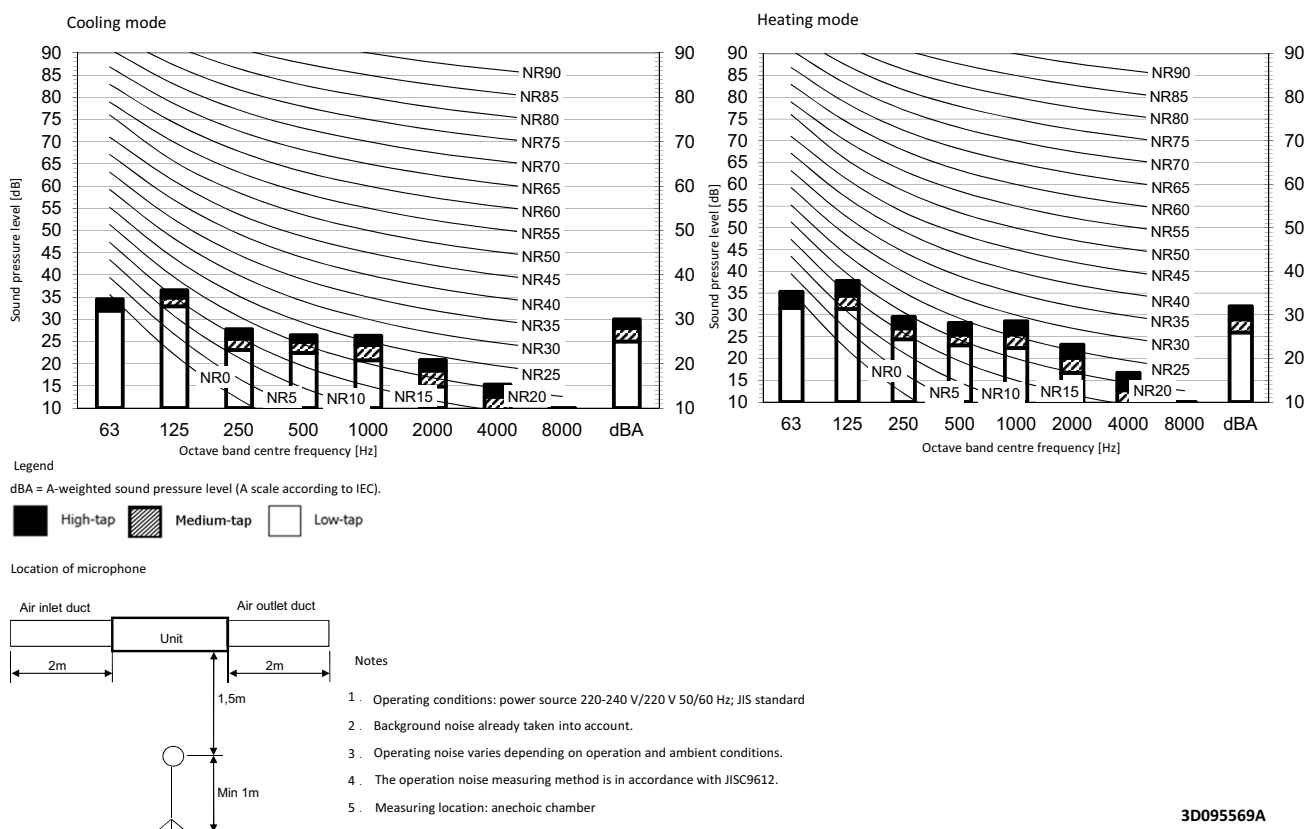
11 - 2 Sound Pressure Spectrum

11

FXSQ15A



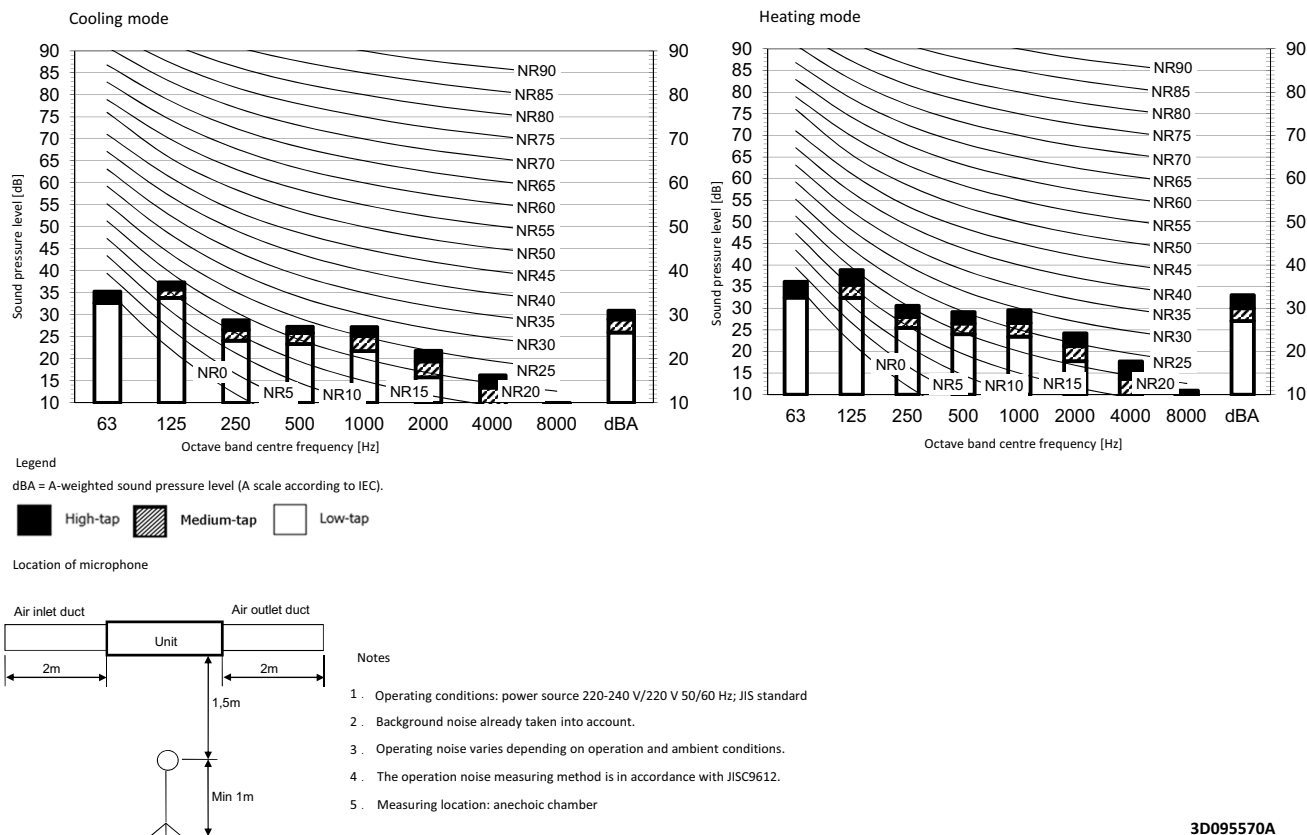
FXSQ20-25A



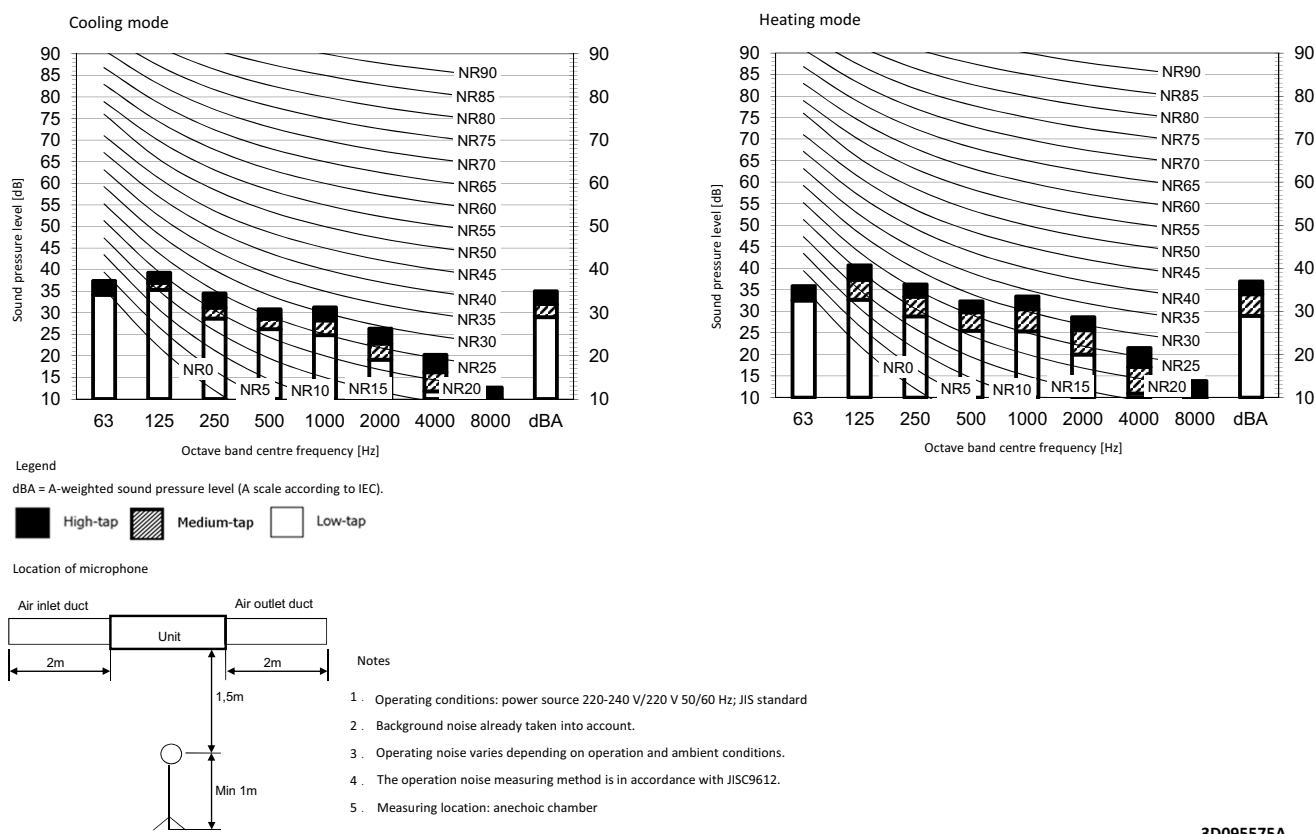
11 Sound data

11 - 2 Sound Pressure Spectrum

FXSQ32A



FXSQ40-50A

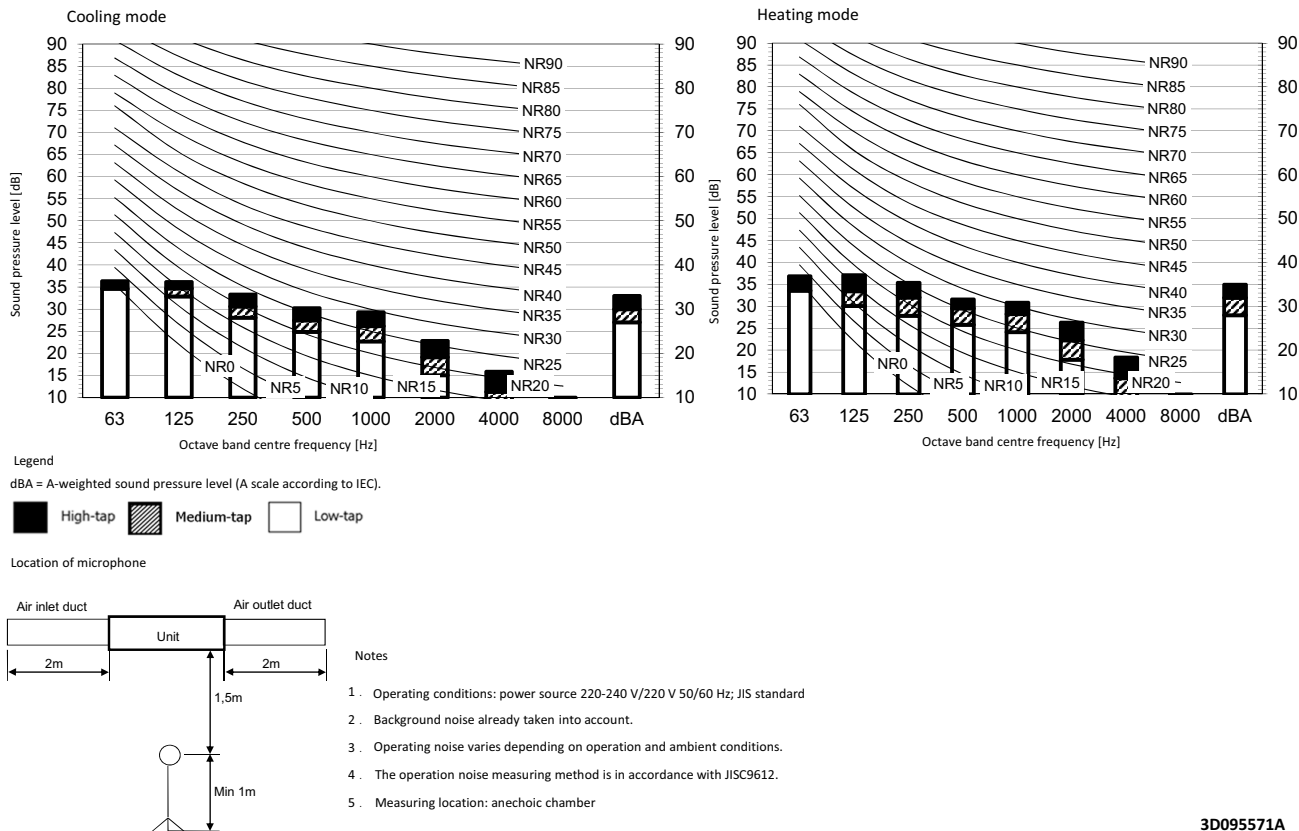


11 Sound data

11 - 2 Sound Pressure Spectrum

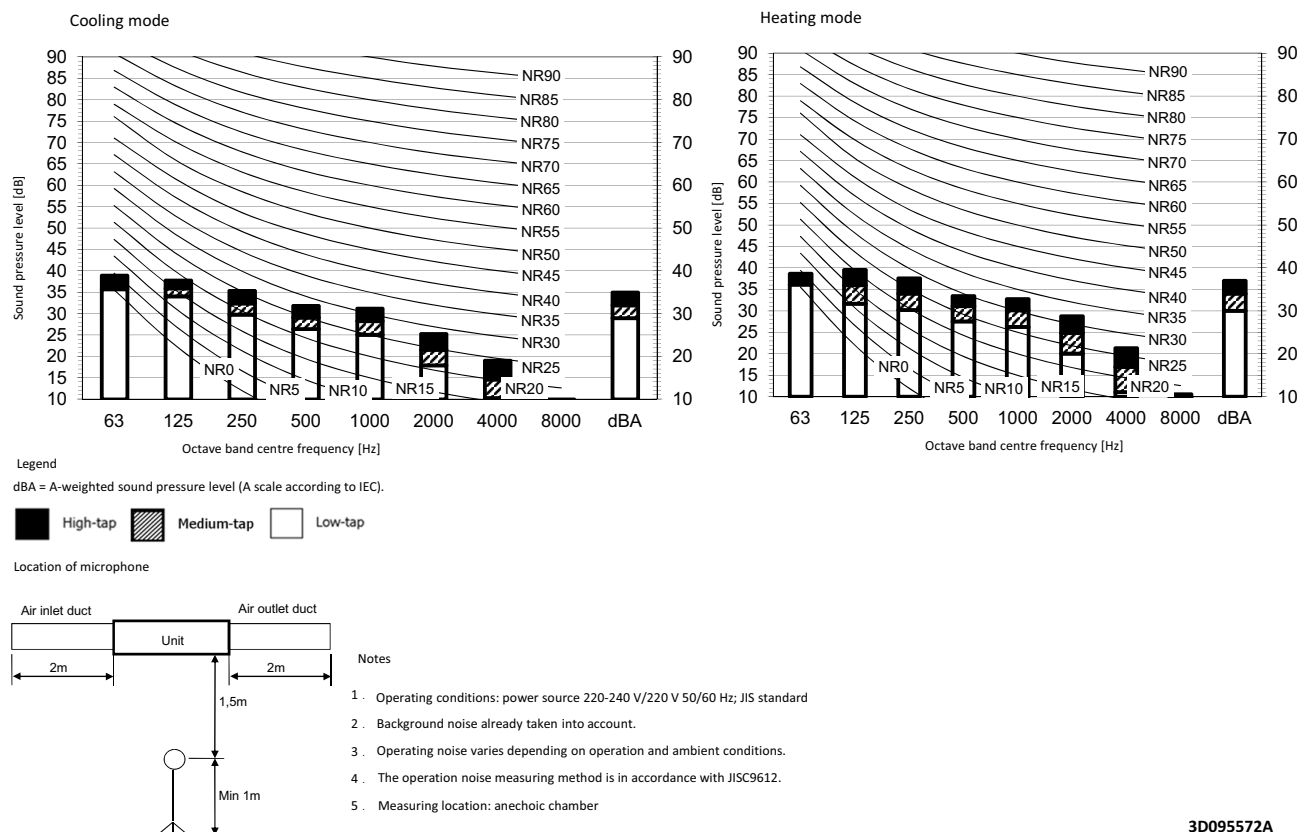
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FXSQ63A



3D095571A

FXSQ80A

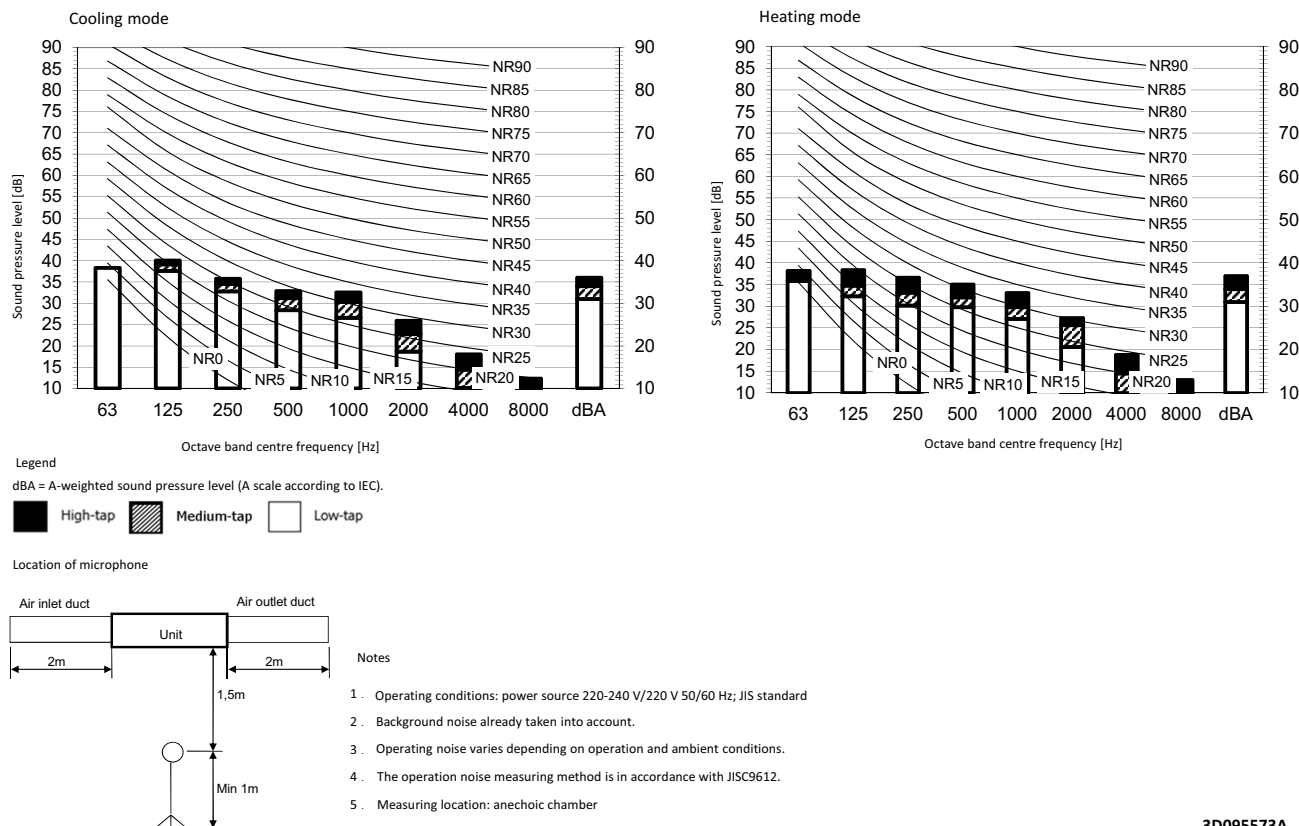


3D095572A

11 Sound data

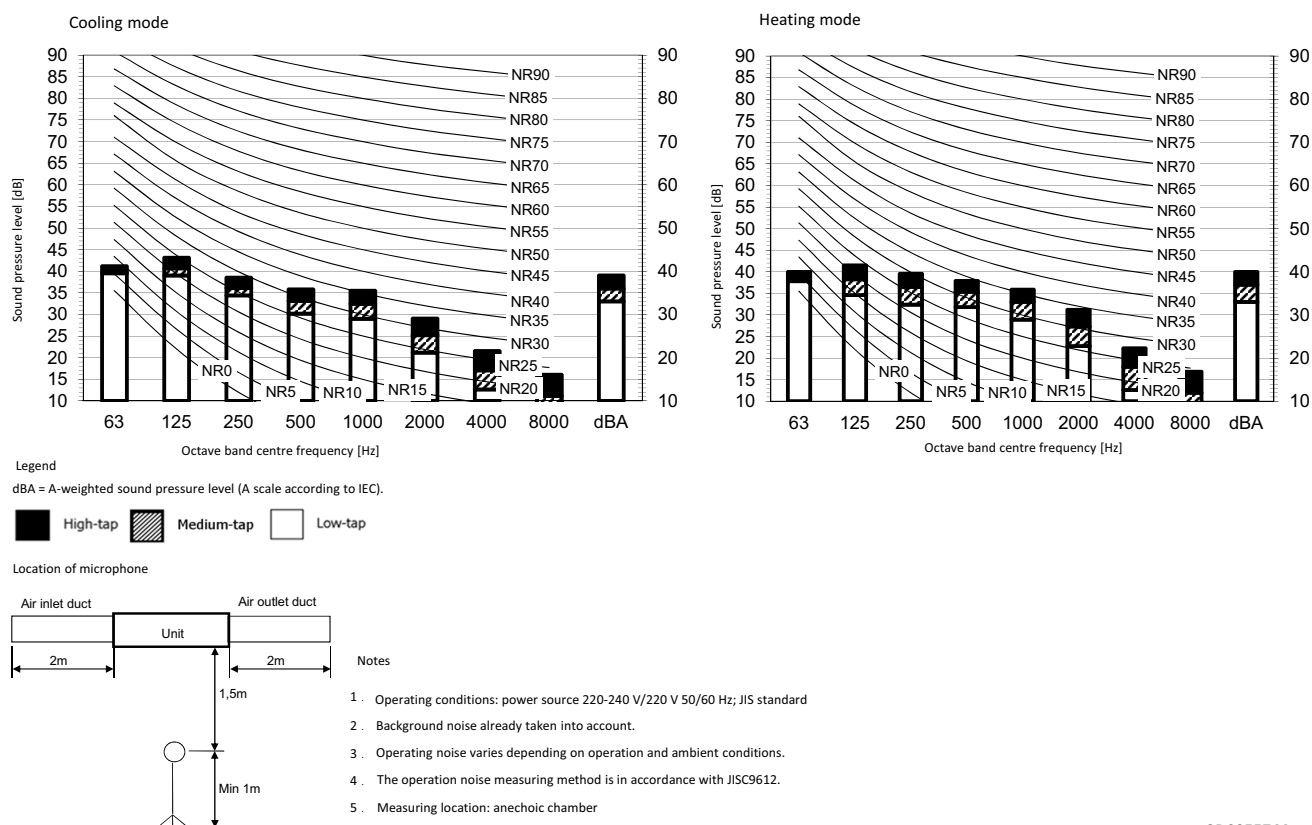
11 - 2 Sound Pressure Spectrum

FXSQ100A



3D095573A

FXSQ125A

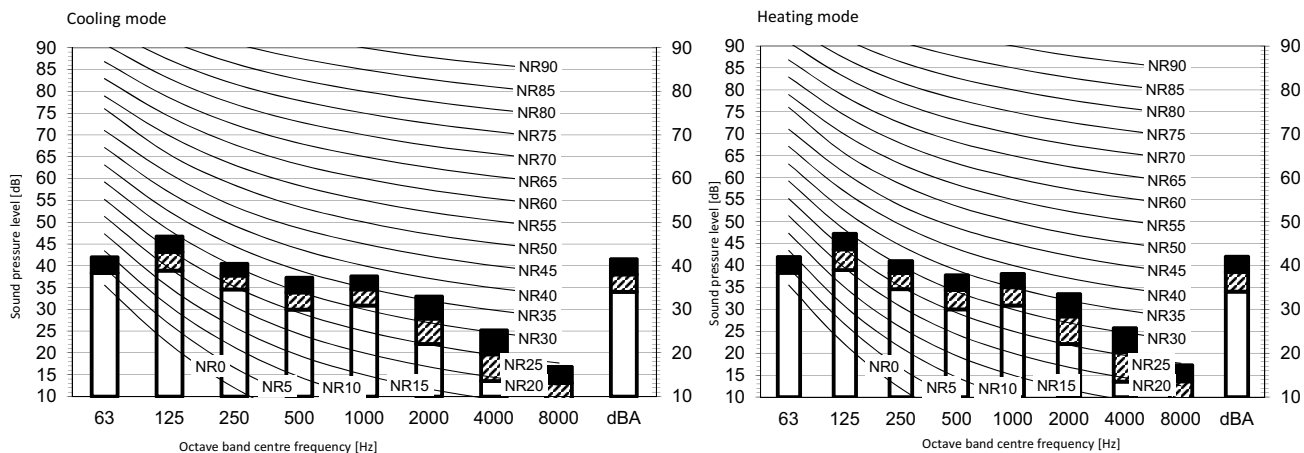


3D095574A

11 Sound data

11 - 2 Sound Pressure Spectrum

FXSQ140A

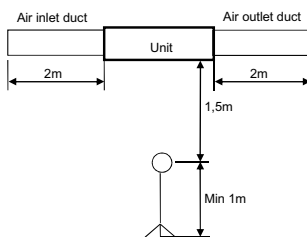


Legend

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

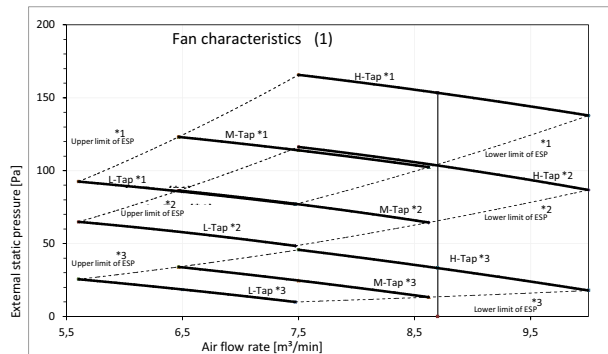
3D096622A

12 Fan characteristics

12 - 1 Fan Characteristics

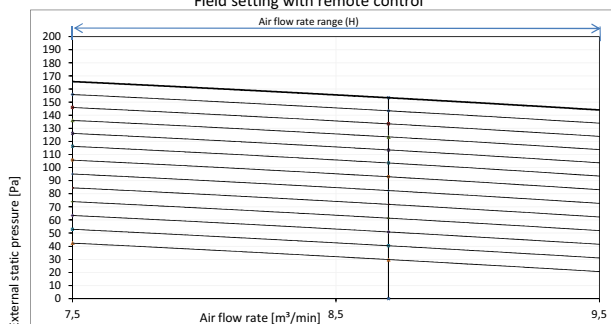
12

FXSQ15A



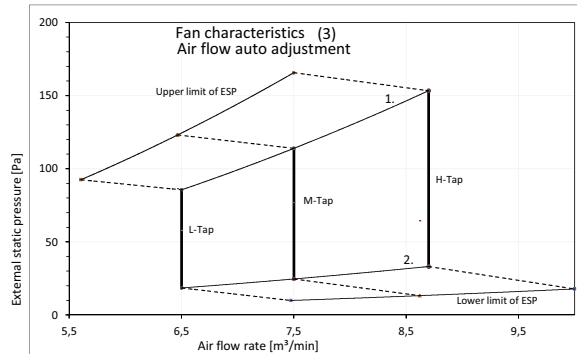
Mark	ESP [Pa]
*1	MAX 150
*2	100
*3	STD 50

Fan characteristics (2) Field setting with remote control



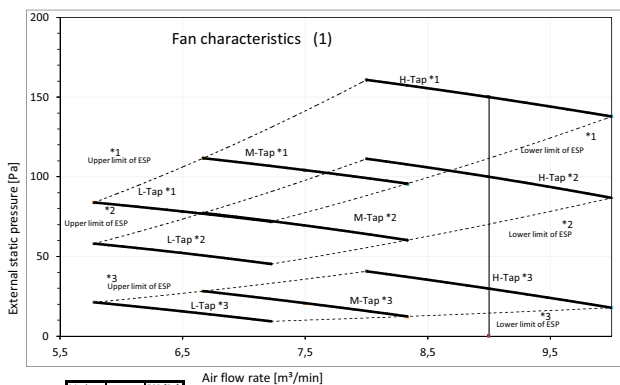
Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure

3D096999



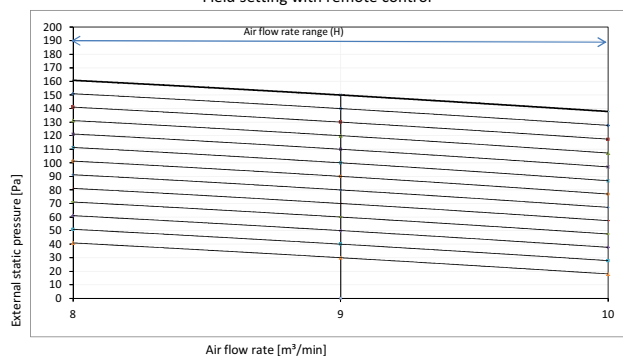
1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

FXSQ20-25A

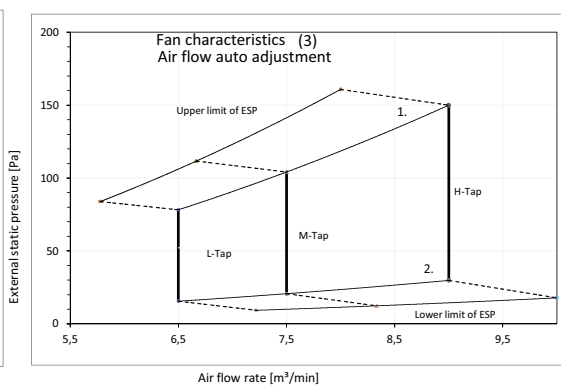


Mark	ESP [Pa]
*1	MAX 150
*2	100
*3	STD 30

Fan characteristics (2) Field setting with remote control



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



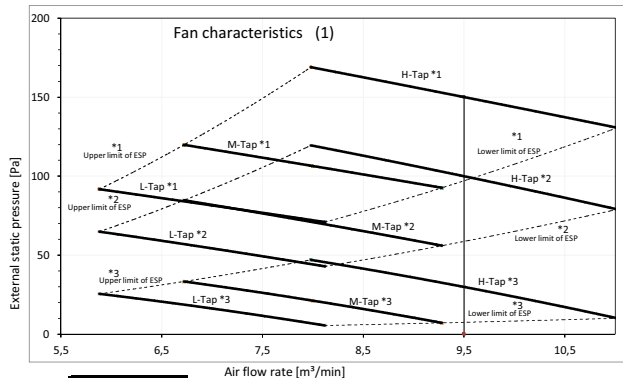
1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

3D095680A

12 Fan characteristics

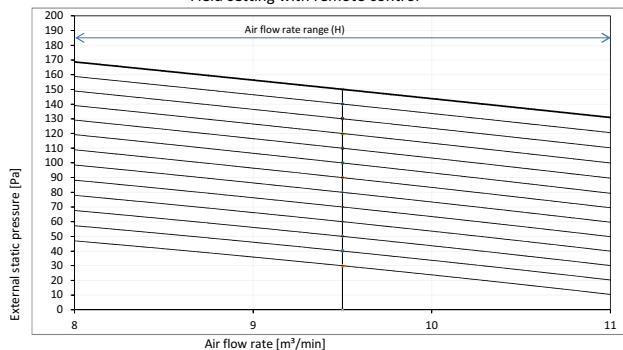
12 - 1 Fan Characteristics

FXSQ32A

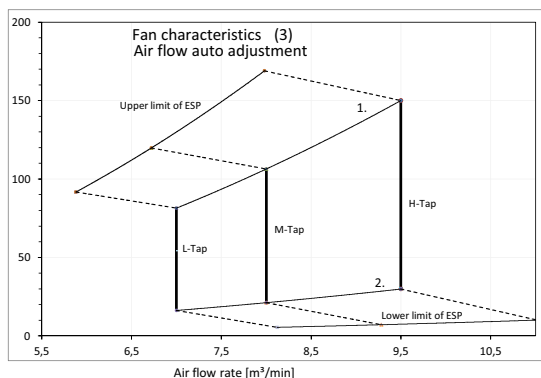


Mark		ESP [Pa]
*1	MAX	150
*2		100
*3	STD	30

Fan characteristics (2)
Field setting with remote control



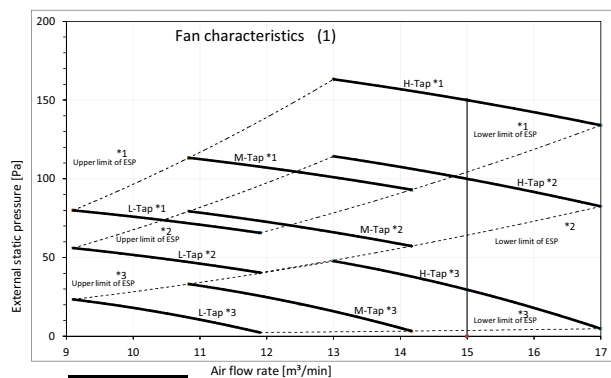
Notes
1. The fan characteristics shown are in "fan only" mode.
2. ESP: External Static Pressure



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

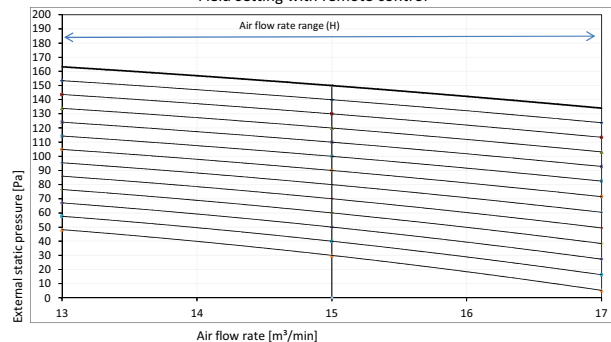
3D095681A

FXSQ40A

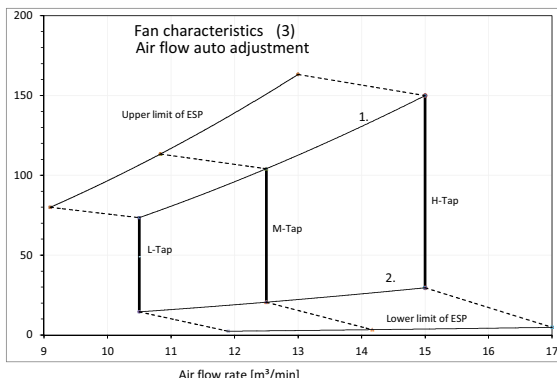


Mark		ESP [Pa]
*1	MAX	150
*2		100
*3	STD	30

Fan characteristics (2)
Field setting with remote control



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



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

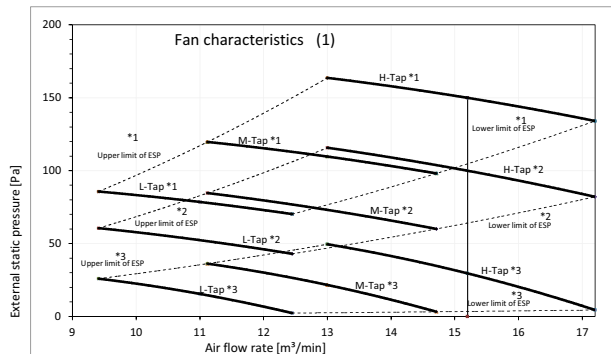
3D095682A

12 Fan characteristics

12 - 1 Fan Characteristics

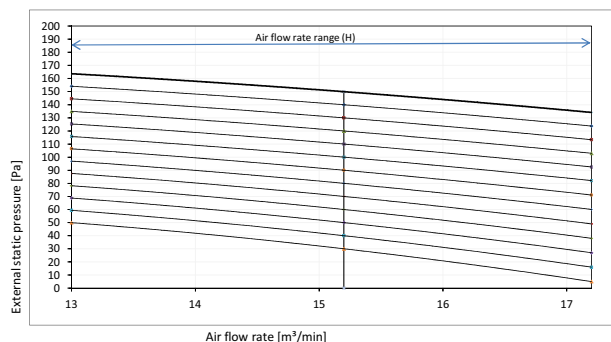
12

FXSQ50A



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

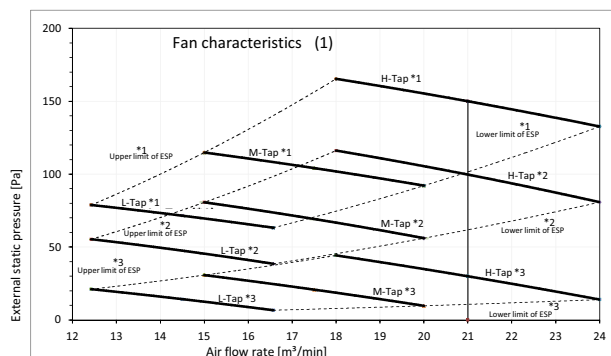
Fan characteristics (2)
Field setting with remote control



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

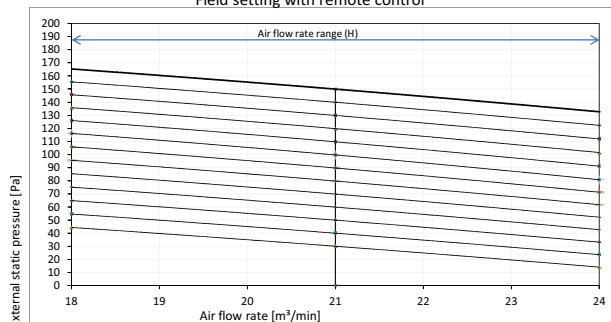
3D095688A

FXSQ63A



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

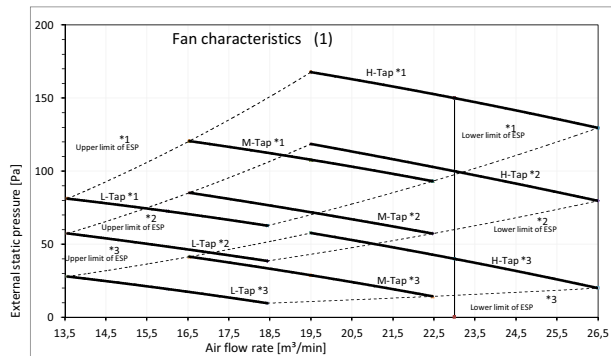
3D095690A

12 Fan characteristics

12 - 1 Fan Characteristics

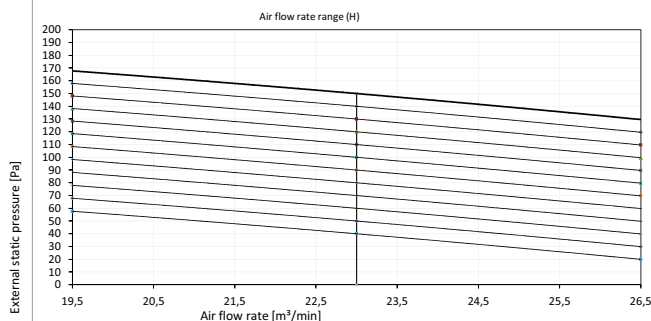
12

FXSQ80A



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

Fan characteristics (2)
Field setting with remote control

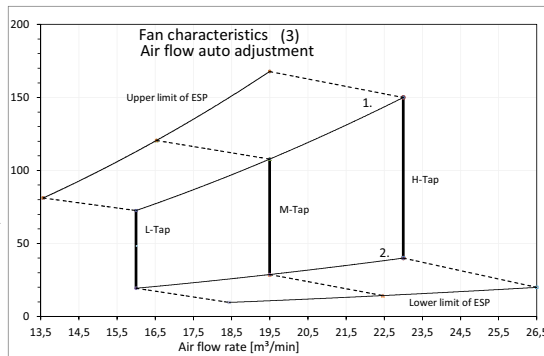


Notes

1. The fan characteristics shown are in "fan only" mode.

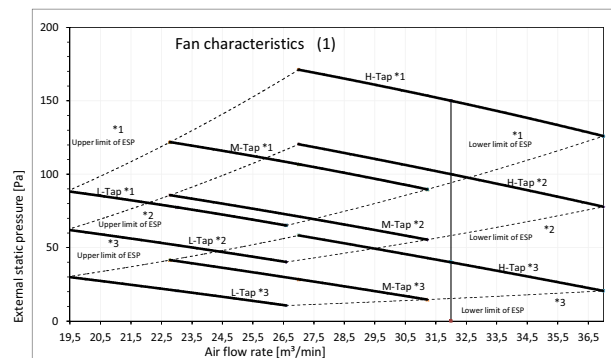
2. ESP: External Static Pressure

3D095692A



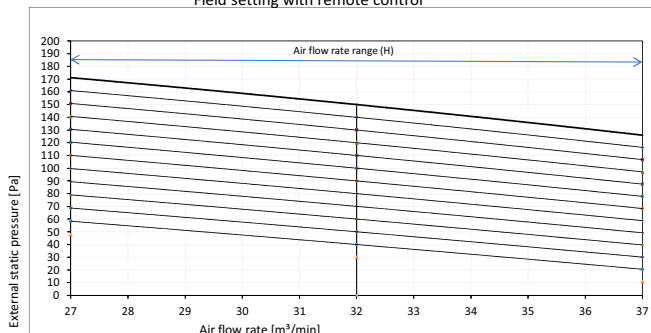
1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

FXSQ100A



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

Fan characteristics (2)
Field setting with remote control

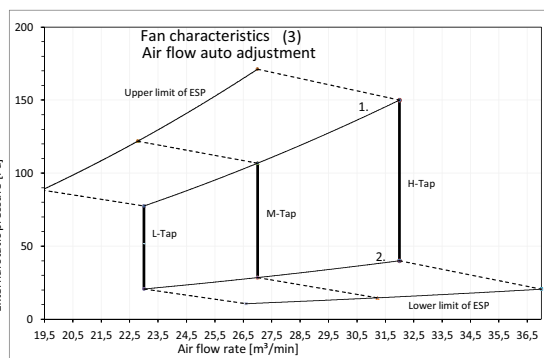


Notes

1. The fan characteristics shown are in "fan only" mode.

2. ESP: External Static Pressure

3D095696A

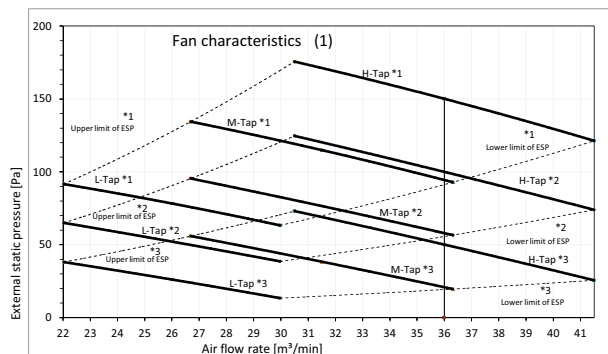


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

12 Fan characteristics

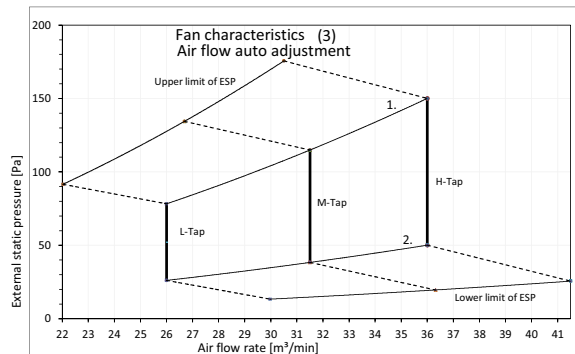
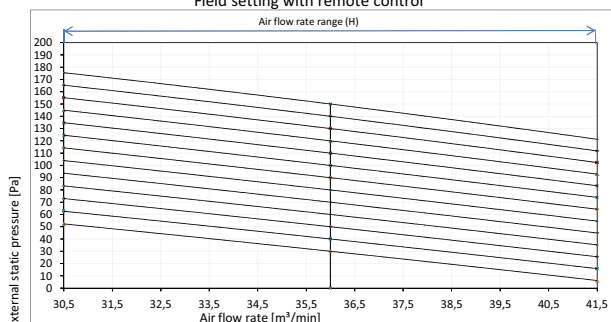
12 - 1 Fan Characteristics

FXSQ125A



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

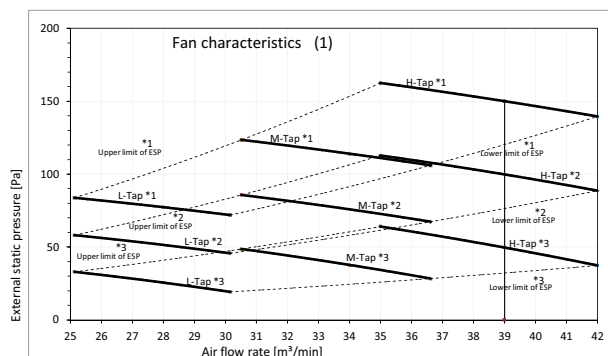
Notes

1. The fan characteristics shown are in "fan only" mode.

2. ESP: External Static Pressure

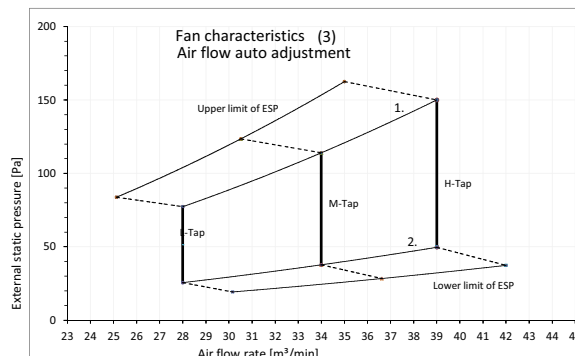
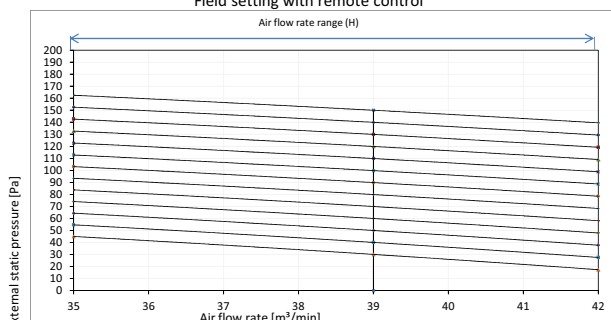
3D095697A

FXSQ140A



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

3D096688A

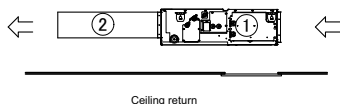
13 Installation

13 - 1 Installation Method

FXSQ-A

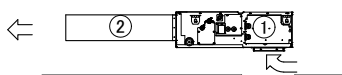
Installation methods

Rear suction



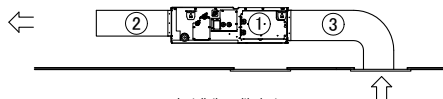
Ceiling return

Bottom suction



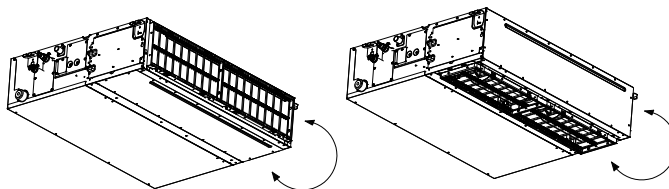
Ceiling return

Rear suction

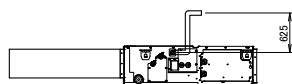


Installation with duct

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



Easy modification from rear suction to bottom suction



Height of drain pump outlet pipe

3D094912A



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