

Concealed ceiling unit with medium ESP Air Conditioning Technical Data FXSQ-A



FXSQ15A2VEB
FXSQ20A2VEB
FXSQ25A2VEB
FXSQ32A2VEB
FXSQ40A2VEB
FXSQ50A2VEB
FXSQ63A2VEB
FXSQ80A2VEB
FXSQ100A2VEB
FXSQ125A2VEB
FXSQ140A2VEB

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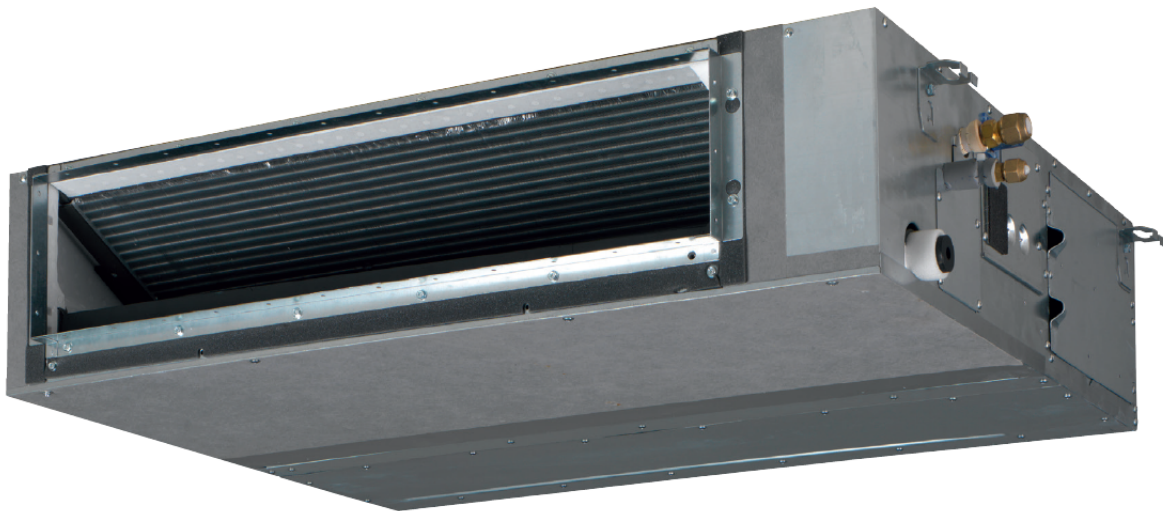
1 Features

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Slimmest yet most powerful medium static pressure unit on the market

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- › Slimmest unit in class, only 245mm (300mm built-in height) and therefore narrow ceiling voids are no longer a challenge
- › Quiet operation: down to 25dBA sound pressure level
- › Medium external static pressure up to 150Pa facilitates using flexible ducts of varying lengths
- › Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- › Discretely concealed in the wall: only the suction and discharge grilles are visible
- › 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- › Multi zoning kit allows multiple individually-controlled climate zones to be served by one indoor unit
- › 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



Multi zoning



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

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Technical specifications				FXSQ15A	FXSQ20A	FXSQ25A	FXSQ32A	FXSQ40A	FXSQ50A	
Cooling capacity	Sensible capacity	At high fan speed	kW	1.20	1.60	2.00	2.60	3.30	4.10	
	Latent capacity	At high fan speed	kW	0.500	0.600	0.800	1.00	1.20	1.50	
	Total capacity	At high fan speed	kW	1.70	2.20	2.80	3.60	4.50	5.60	
Heating capacity	Total capacity	At high fan speed	kW	1.90	2.50	3.20	4.00	5.00	6.30	
Power input - 50Hz	Cooling	At high fan speed	kW	0.090			0.096	0.151	0.154	
	Heating	At high fan speed	kW	0.086			0.092	0.147	0.150	
Dimensions	Unit	Height	mm	245				700		
		Width	mm	550						
		Depth	mm	800						
	Packed unit	Height	mm	890						
		Width	mm	750				900		
		Depth	mm	295						
Weight	Unit	kg	23.5				24.0	28.5	29.0	
	Packed unit	kg	25.0				25.5	30.0	30.5	
Casing	Colour	Not painted (galvanised)								
	Material	Galvanised steel plate								
Heat exchanger	Inside length		mm	342				492		
	Rows	Quantity	3							
	Fin pitch		mm	1.40						
	Passes	Quantity	4					6		
	Face area		m²	0.124				0.178		
	Stages	Quantity	26							
	Empty tubeplate hole	Quantity	26				-	26	-	
	Fin	Type	Cross fin coil (Multi slit fins with hydrophilic treatment and Ø5Hi-XA tubes)							
	Fan	Type	Sirocco fan							
		Quantity	1							
Air flow rate - 50Hz		Cooling	At high fan speed	m³/min	8.7	9.0		9.5	15.0	15.2
			At medium fan speed	m³/min	7.50		8.00		12.5	
			At low fan speed	m³/min	6.5		7.0		11.0	
		Heating	At high fan speed	m³/min	8.7	9.0		9.5	15.0	15.2
			At medium fan speed	m³/min	7.5		8.0		12.5	
			At low fan speed	m³/min	6.5		7.0		11.0	
External static pressure - 50Hz		Factory set	Pa	30						
	High	Pa	150							
Sound power level	Cooling	At high fan speed	dB(A)	54			55	60		
Sound pressure level	Cooling	At high fan speed	dB(A)	29.5	30.0		31.0	35.0		
Sound pressure level	Cooling	At medium fan speed	dB(A)	28.0			29.0	32.0		
		At low fan speed	dB(A)	25.0			26.0	29.0		
	Heating	At high fan speed	dB(A)	31.5	32.0		33.0	37.0		
		At medium fan speed	dB(A)	29.0			30.0	34.0		
		At low fan speed	dB(A)	26.0			27.0	29.0		
Fan motor	Quantity	1								
	Model	Brushless DC motor								
	Speed	Steps	3							
		Cooling	High	rpm	1,079			1,111	1,217	1,227
		Heating	High	rpm	1,079			1,111	1,217	1,227
Output	Max	W	78				130			
Refrigerant	Type	R-410A								
	GWP	2,087.5								
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), drain height 625 mm								
	Heat insulation	Foamed polystyrene / Foamed polyethylene								
Sound absorbing insulation	Butyl Rubber									
Drain-up height			mm	625						
Air filter	Type	Resin net								
Control systems	Infrared remote control		BRC4C65							
	Wired remote control		BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52							

2 Specifications

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Technical specifications				FXSQ63A	FXSQ80A	FXSQ100A	FXSQ125A	FXSQ140A	
Cooling capacity	Sensible capacity	At high fan speed	kW	5.20	6.50	8.30	10.20	11.70	
	Latent capacity	At high fan speed	kW	1.90	2.50	2.90	3.80	4.30	
	Total capacity	At high fan speed	kW	7.10	9.00	11.20	14.00	16.00	
Heating capacity	Total capacity	At high fan speed	kW	8.00	10.0	12.5	16.0	18.0	
Power input - 50Hz	Cooling	At high fan speed	kW	0.188	0.213	0.290	0.331	0.386	
	Heating	At high fan speed	kW	0.183	0.209	0.285	0.326	0.382	
Dimensions	Unit	Height	mm	245					
		Width	mm	1,000		1,400		1,550	
		Depth	mm	800					
	Packed unit	Height	mm	890					
		Width	mm	1,200		1,600		1,750	
		Depth	mm	295					
Weight	Unit	kg	35.5	36.5	46.0	47.0	51.0		
	Packed unit	kg	37.5	38.5	48.0	49.0	53.0		
Casing	Colour	Not painted (galvanised)							
	Material	Galvanised steel plate							
Heat exchanger	Inside length		mm	792		1,192		1,342	
	Rows	Quantity	3						
	Fin pitch		mm	1.40					
	Passes	Quantity	12				16		
	Face area		m²	0.288		0.433		0.488	
	Stages	Quantity	26						
	Empty tubeplate hole	Quantity	26	-	26	-			
	Fin	Type	Cross fin coil (Multi slit fins with hydrophilic treatment and Ø5Hi-XA tubes)						
	Fan	Type	Sirocco fan						
		Quantity			2		3		
Air flow rate - 50Hz		Cooling	At high fan speed	m³/min	21.0	23.0	32.0	36.0	39.0
			At medium fan speed	m³/min	18.0	19.5	27.0	31.5	34.0
			At low fan speed	m³/min	15.0	16.0	23.0	26.0	28.0
		Heating	At high fan speed	m³/min	21.0	23.0	32.0	36.0	39.0
			At medium fan speed	m³/min	18.0	19.5	27.0	31.5	34.0
			At low fan speed	m³/min	15.0	16.0	23.0	26.0	28.0
External static pressure - 50Hz		Factory set	Pa	30	40		50		
		High	Pa	150					
Sound power level	Cooling	At high fan speed	dB(A)	59	61		64		
Sound pressure level	Cooling	At high fan speed	dB(A)	33.0	35.0	36.0	39.0	41.5	
Sound pressure level	Cooling	At medium fan speed	dB(A)	30.0	32.0	34.0	36.0	38.0	
		At low fan speed	dB(A)	27.0	29.0	31.0	33.0	34.0	
	Heating	At high fan speed	dB(A)	35.0	37.0		40.0	42.0	
		At medium fan speed	dB(A)	32.0	34.0		37.0	38.5	
		At low fan speed	dB(A)	28.0	30.0	31.0	33.0	34.0	
Fan motor	Quantity	1							
	Model	Brushless DC motor							
	Speed	Steps	3						
		Cooling	High	rpm	1,109	1,221	1,217	1,350	1,346
		Heating	High	rpm	1,109	1,221	1,217	1,350	1,346
Output	Max	W	230		300		350		
Refrigerant	Type	R-410A							
	GWP	2,087.5							
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), drain height 625 mm							
	Heat insulation	Foamed polystyrene / Foamed polyethylene							
	Sound absorbing insulation	Butyl Rubber							
Drain-up height			mm	625					
Air filter	Type	Resin net							
Control systems	Infrared remote control		BRC4C65						
	Wired remote control		BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						

Standard accessories: Installation and operation manual; Quantity: 1;

Standard accessories: Drain hose; Quantity: 1;

2 Specifications

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

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

Standard accessories: Screws; Quantity: 40;

Standard accessories: Insulation for fitting; Quantity: 2;

Standard accessories: Sealing pad; Quantity: 5;

Standard accessories: Clamps; Quantity: 4;

Electrical specifications			FXSQ15A	FXSQ20A	FXSQ25A	FXSQ32A	FXSQ40A	FXSQ50A
Power supply	Name		VE					
	Phase		1~					
	Frequency	Hz	50/60					
	Voltage	V	220-240/220					
Current - 50Hz	Minimum circuit amps (MCA)	A	0.8				1.1	
	Maximum fuse amps (MFA)	A	16					
	Full load amps (FLA) Total	A	0.6				0.9	

Electrical specifications		FXSQ63A	FXSQ80A	FXSQ100A	FXSQ125A	FXSQ140A
Power supply	Name	VE				
	Phase	1~				
	Frequency	Hz	50/60			
	Voltage	V	220-240/220			
Current - 50Hz	Minimum circuit amps (MCA)	A	1.6	1.9	2.4	3.1
	Maximum fuse amps (MFA)	A	16			
	Full load amps (FLA) Total	A	1.3	1.5	1.9	2.5

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. |

Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

FXSQ-A

Unit combination restrictions				Power supply		IFM	Power input [W]	
Model	Hz	Voltage	Voltage range	MCA	MFA	FLA	Cooling	Heating
FXSQ15A2VEB	50/60	220-240/220	MAX.264 / MAX.242 MIN.198 / MIN.198	0.8	16	0.6	90	86
FXSQ20A2VEB		220-240/220		0.8	16	0.6	90	86
FXSQ25A2VEB		220-240/220		0.8	16	0.6	90	86
FXSQ32A2VEB		220-240/220		0.8	16	0.6	96	92
FXSQ40A2VEB		220-240/220		1.1	16	0.9	151	147
FXSQ50A2VEB		220-240/220		1.1	16	0.9	154	150
FXSQ63A2VEB		220-240/220		1.6	16	1.3	188	183
FXSQ80A2VEB		220-240/220		1.9	16	1.5	213	209
FXSQ100A2VEB		220-240/220		2.4	16	1.9	290	285
FXSQ125A2VEB		220-240/220		2.6	16	2.1	331	326
FXSQ140A2VEB		220-240/220		3.1	16	2.5	386	382

Symbols

MCA: Minimum Circuit Ampere (A)

MFA: Maximum Fuse Ampere (A)

IFM: Indoor fan motor

FLA: Full Load Ampere (A)

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.

5. MCA/MFA

MCA = 1,25 x FLA

MFA =< 4 x FLA

The next lower standard fuse rating is minimum -16- ampere.

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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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Options

Options

FXSQ-A

Discharge

Description	Option kit	SA					VRV				
		FBQ35D FBQ50D	FBQ60D FBQ71D	FBQ100D FBQ125D FBQ140D	FXSQ15A FXSQ20A FXSQ25A FXSQ32A	FXSQ40A FXSQ50A	FXSQ63A FXSQ80A	FXSQ100A FXSQ125A	FXSQ140A		
Air discharge adaptor for round ducts	KDAP25A36A				X						
	KDAP25A56A	X				X					
	KDAP25A71A		X				X				
	KDAP25A140A			X				X			
Multi zoning kit	AZER6DAIST07XS2(3)/AZEZ6DAIST07XS2(3)				X						
	AZER6DAIST07S2(3)(4)/AZEZ6DAIST07S2(3)(4)	X				X					
	AZER6DAIST07M4(5)(6)/AZEZ6DAIST07M4(5)(6)		X				X				
	AZER6DAIST07L5(6)(7)(8)/AZEZ6DAIST07L5(6)(7)(8)			X				X			
	AZER6DAIST07XL7(8)/AZEZ6DAIST07XL7(8)								X		

Operation control

Description	Option kit	SA					VRV				
		FBQ35D FBQ50D	FBQ60D FBQ71D	FBQ100D FBQ125D FBQ140D	FXSQ15A FXSQ20A FXSQ25A FXSQ32A	FXSQ40A FXSQ50A	FXSQ63A FXSQ80A	FXSQ100A FXSQ125A	FXSQ140A		
Wired remote control	BRC1D528	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	KRCS01-4B	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)	DTA104A61				X	X	X	X	X	X	X
PCB for multi-tenant indoor units	DTA114A61				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(*3,4,5)	X(*3,4,5)	X(*3,4,5)	X(*3,4,5)	X(*3,4,5)	X(*3,4,5)	X(*3,4,5)
iTouch Manager	DCM601A51	X	X	X	X	X	X	X	X	X	X
Wireless room thermostat	K.RSS				X	X	X	X	X	X	X

Notes

- (*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 -BRC1E53C7- is different from that of controller -BRC2/3E52C7-.

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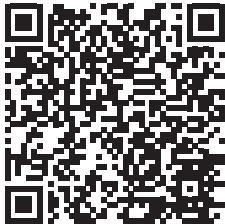
6 Capacity tables

6 - 1 Capacity Table Legend

In order to fulfill more your requirements on quick access of data in the format you require, we have developed a tool to consult capacity tables.

Below you can find the link to the capacity table database and an overview of all the tools we have to help you select the correct product:

- **Capacity table database:** lets you find back and export quickly the capacity information you are looking for based upon unit model, refrigerant temperature and connection ratio.
- You can access the capacity table viewer here:
https://my.daikin.eu/content/denv/en_US/home/applications/software-finder/capacity-table-viewer.html



- An overview of **all software tools** that we offer can be found here:
https://my.daikin.eu/denv/en_US/home/applications/software-finder.html



6 Capacity tables

6 - 2 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
SHC: Sensible heating capacity

:kW
:kW

3D095999A

6 Capacity tables

6 - 3 Heating Capacity Tables

FXSQ-A

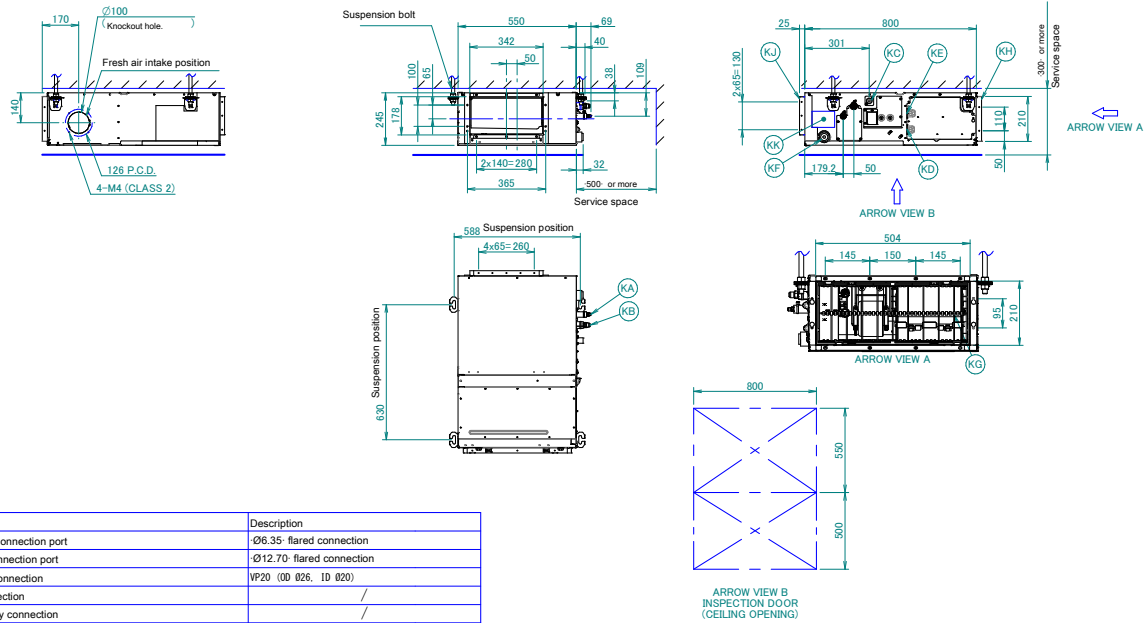
Unit size	Outdoor air temp.		Indoor air temp.: °CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
15	7.0	6.0	2.0	2.0	1.9	1.8	1.8	1.7
20	7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
25	7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
32	7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
40	7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
50	7.0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



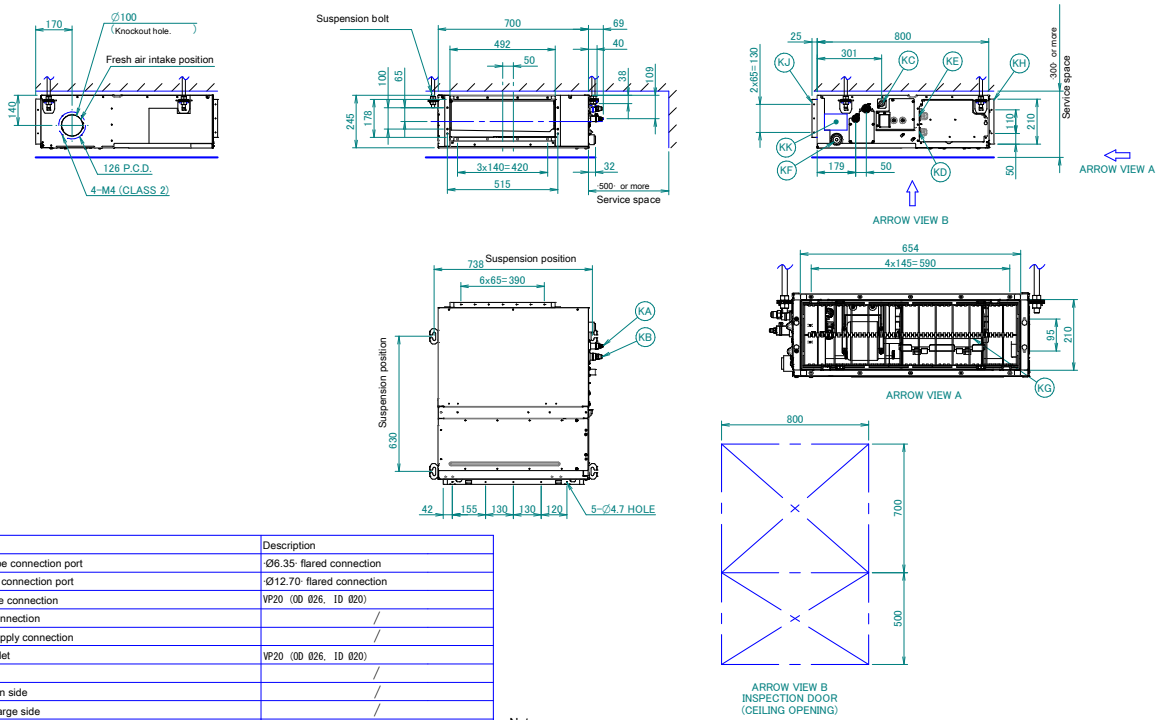
Item	Name	Description
KA	Liquid pipe connection port	Ø6.35" flared connection
KB	Gas pipe connection port	Ø12.70" flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side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

3D094888B

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

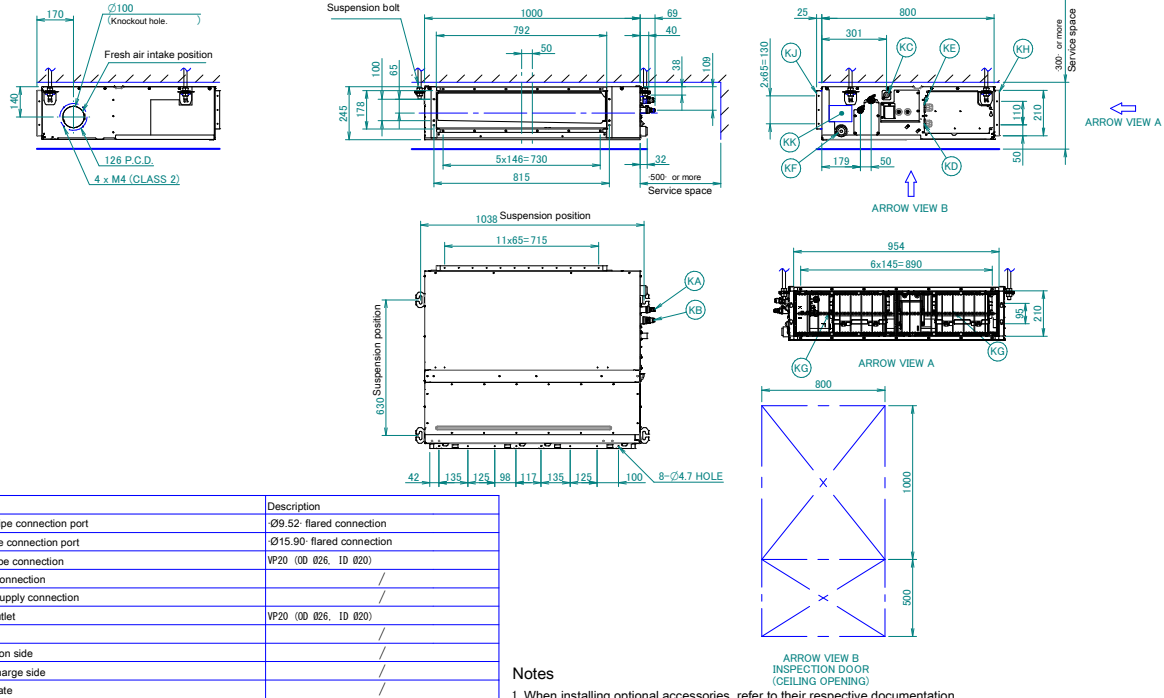
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094919B

7 Dimensional drawings

7 - 1 Dimensional Drawings

FXSQ63-80A



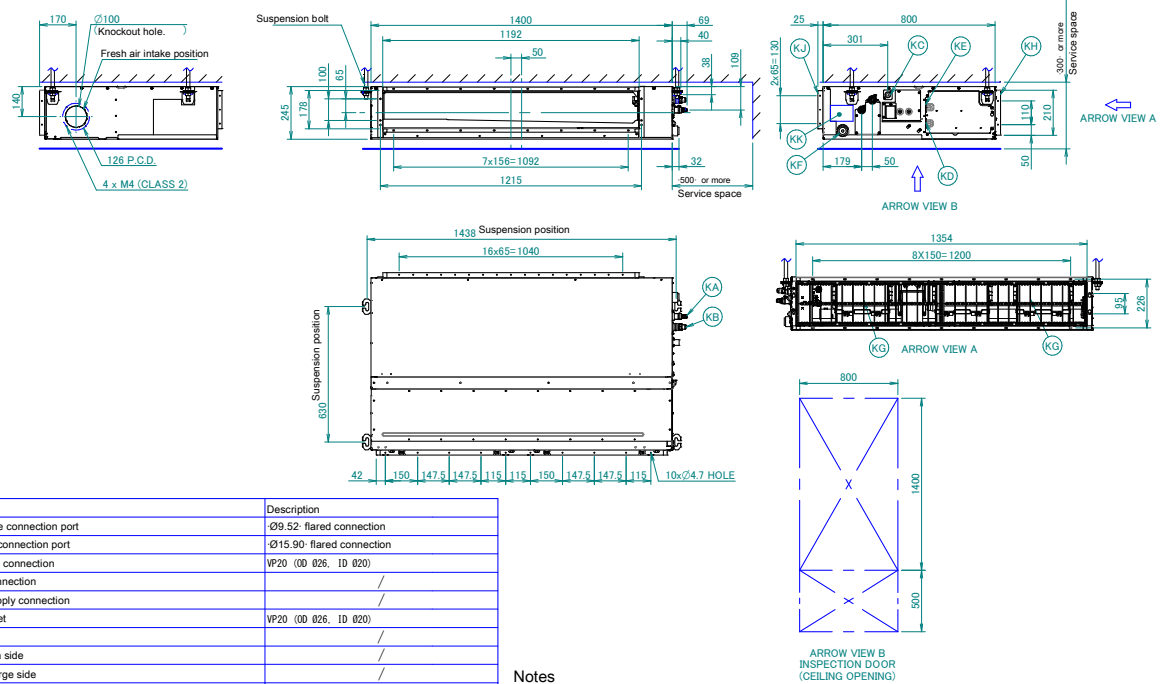
Item	Name	Description
KA	Liquid pipe connection port	Ø9.52: flared connection
KB	Gas pipe connection port	Ø15.90: flared connection
KC	Drain pipe connection	VP20 (OD Ø26, ID Ø20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD Ø26, ID Ø20)
KG	Air filter	/
KH	Air suction side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

Notes

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

3D094916B

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

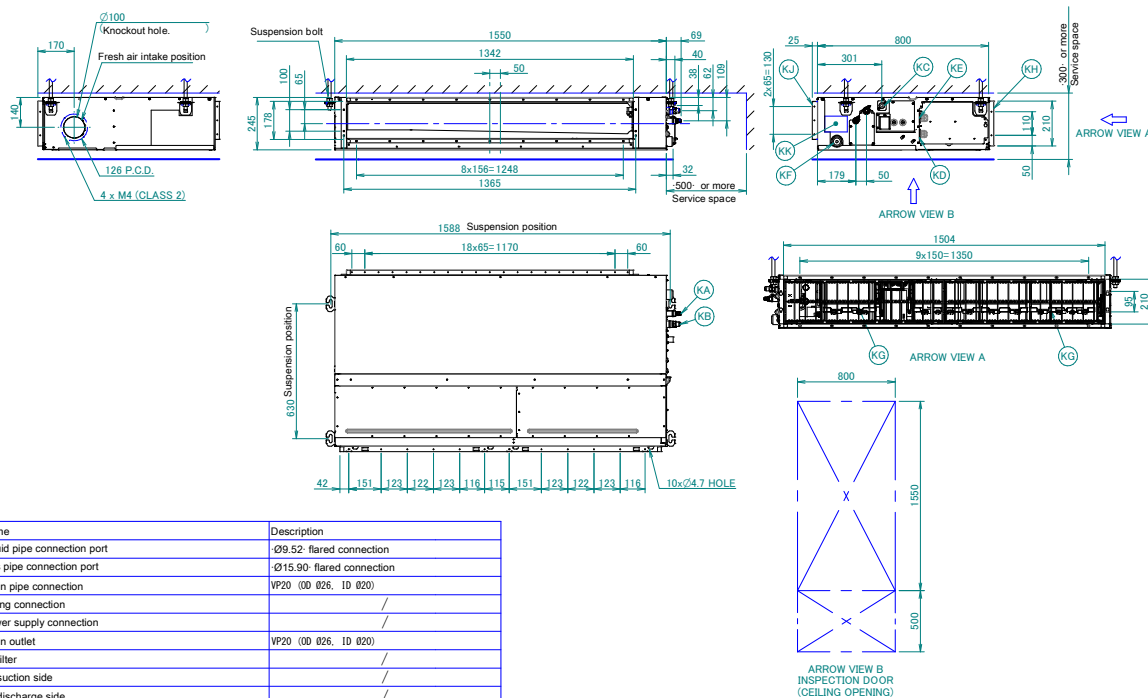
1. When installing optional accessories, refer to their respective documentation.
2. The ceiling depth varies according to the documentation of the specific system.

3D094917B

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 $\varnothing$ 26, ID $\varnothing$ 20)
KD	Wiring connection	/
KE	Power supply connection	/
KF	Drain outlet	VP20 (OD $\varnothing$ 26, ID $\varnothing$ 20)
KG	Air filter	/
KH	Air suction side	/
KJ	Air discharge side	/
KK	Nameplate	/

Notes

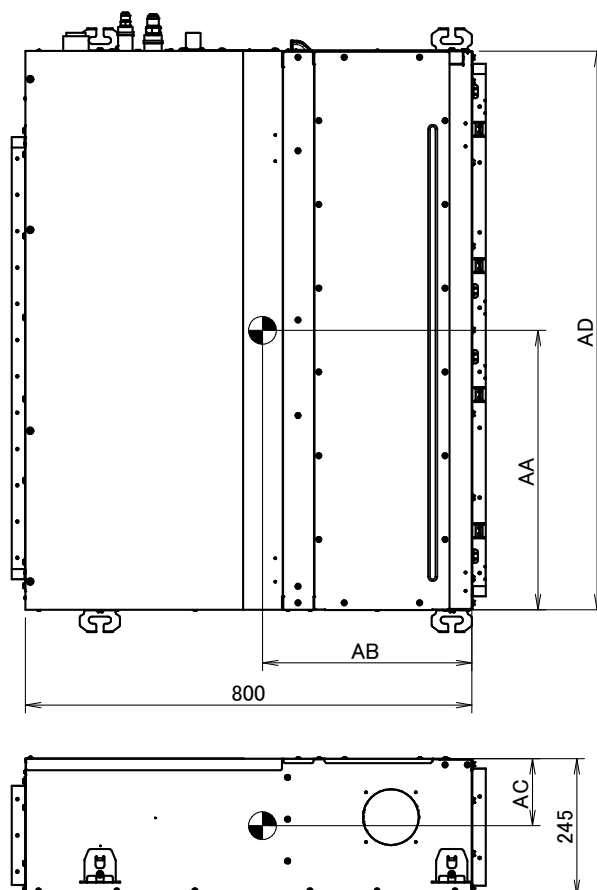
- When installing optional accessories, refer to their respective documentation.
- The ceiling depth varies according to the documentation of the specific system.

3D094928B

8 Centre of gravity

8 - 1 Centre of Gravity

FXSQ-A



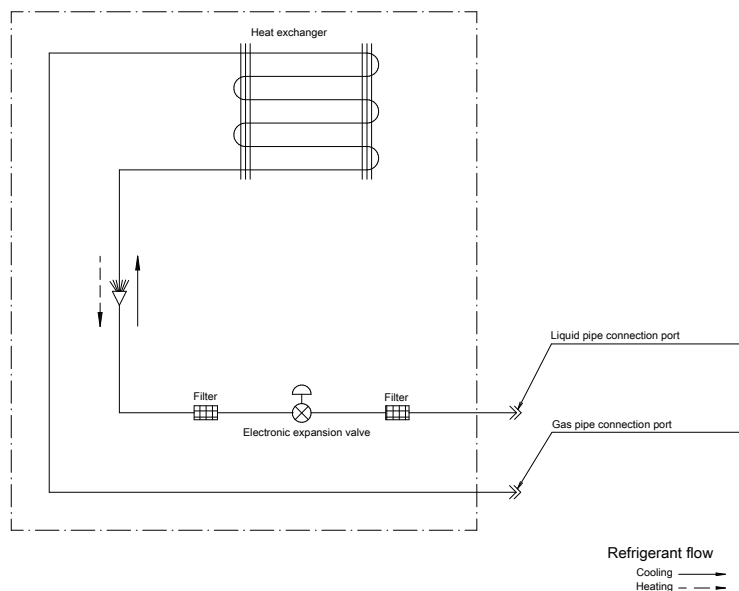
Applicable models	AA	AB	AC	AB
FXSQ15/20/25/32	305	365	145	550
FXSQ40/50	410	375	125	700
FXSQ63/80	525	380	125	100
FXSQ100/125	760	390	115	1400
FXSQ140	870	385	120	1550

4D096407A

9 Piping diagrams

9 - 1 Piping Diagrams

FXSQ-A



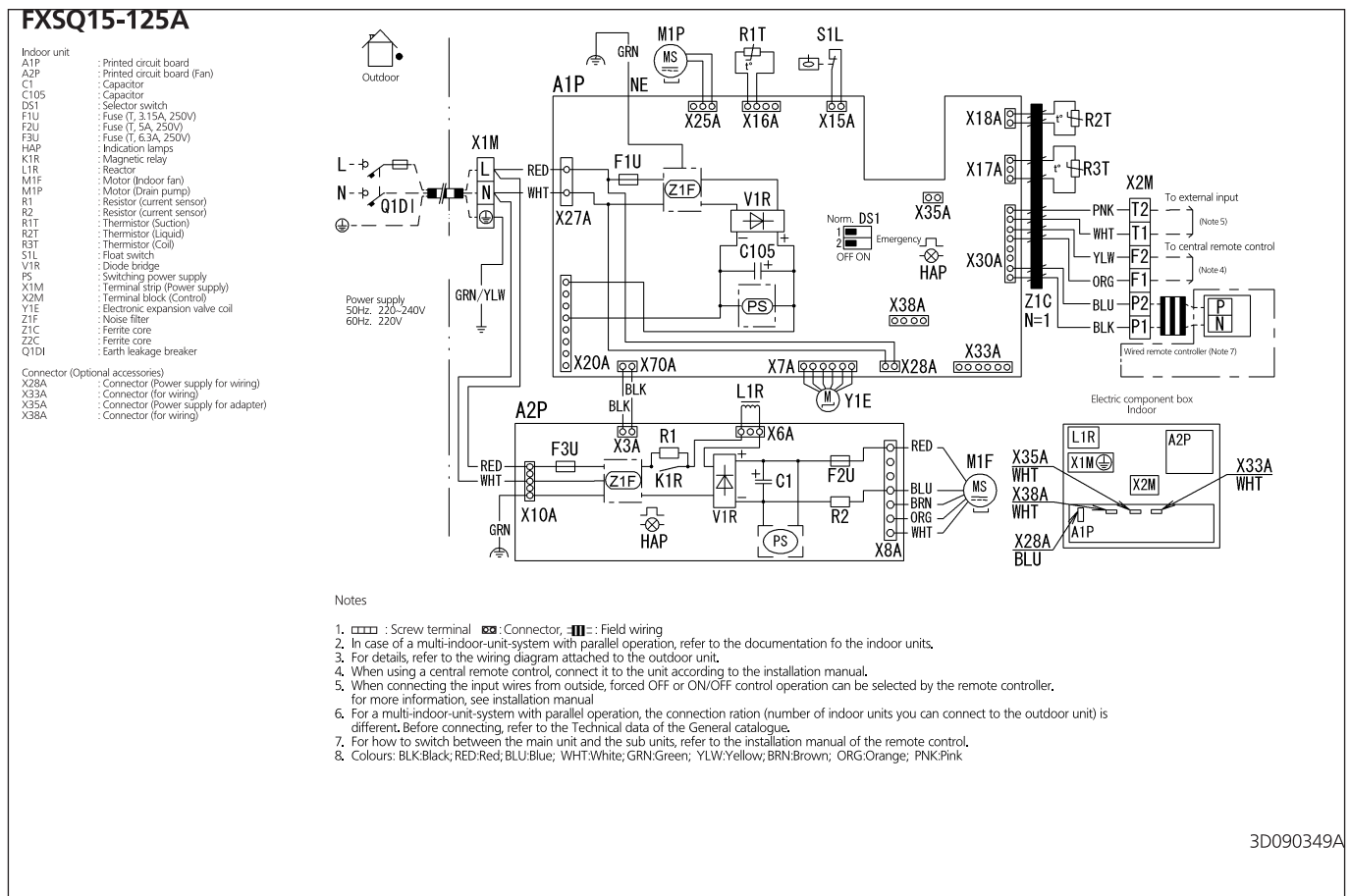
Piping connections Ø

Model	Gas	Liquid
FXSQ15/20/25/32/40/50	Ø 12.70	Ø 6.35
FXSQ63/80/100/125/140	Ø 15.90	Ø 9.52

3D090269A

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

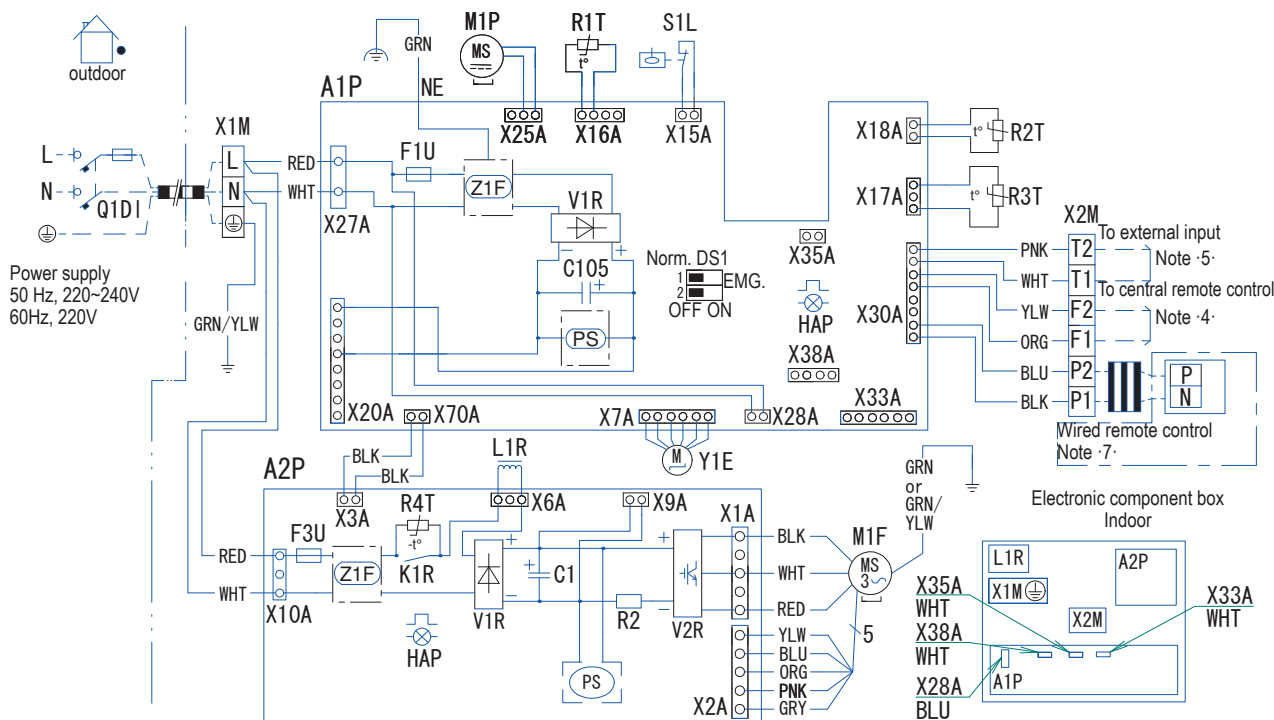


10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

10

FXSQ140A



Indoor unit			
A1P	Printed circuit board	R3T	Thermistor (coil)
A2P	Printed circuit board (fan)	R4T	Thermistor NTC (Current limiting)
C1	Capacitor	S1L	Float switch
C105	Capacitor	V1R	Diode bridge
DS1	Selector switch	V2R	Power module
F1U	Fuse T,3.15A,250V	PS	Switching power supply
F3U	Fuse T,6.3A,250V	X1M	Terminal strip (power supply)
HAP	Indication lamps	X2M	Terminal block (control)
K1R	Magnetic relay	Y1E	Electronic expansion valve coil
L1R	Reactor	Z1F	Noise filter
M1F	Motor (indoor fan)	Q1DI	Earth leakage breaker
M1P	Motor (drain pump)	Connector (optional accessories)	
R2	Resistor (current sensor)	X28A	Connector (power supply for wiring)
R1T	Thermistor (suction)	X33A	Connector (for wiring)
R2T	Thermistor (liquid)	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 of 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 remote control.
For more information, refer to the 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 or 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

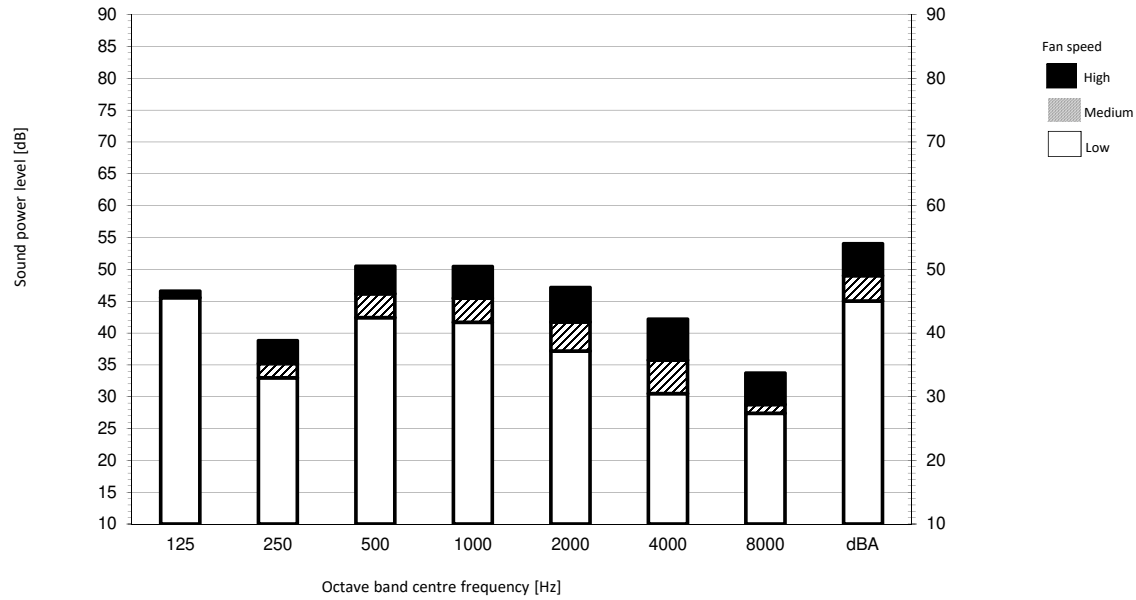
3D090351B

11 Sound data

11 - 1 Sound Power Spectrum - Cooling

FXSQ15A

Cooling mode



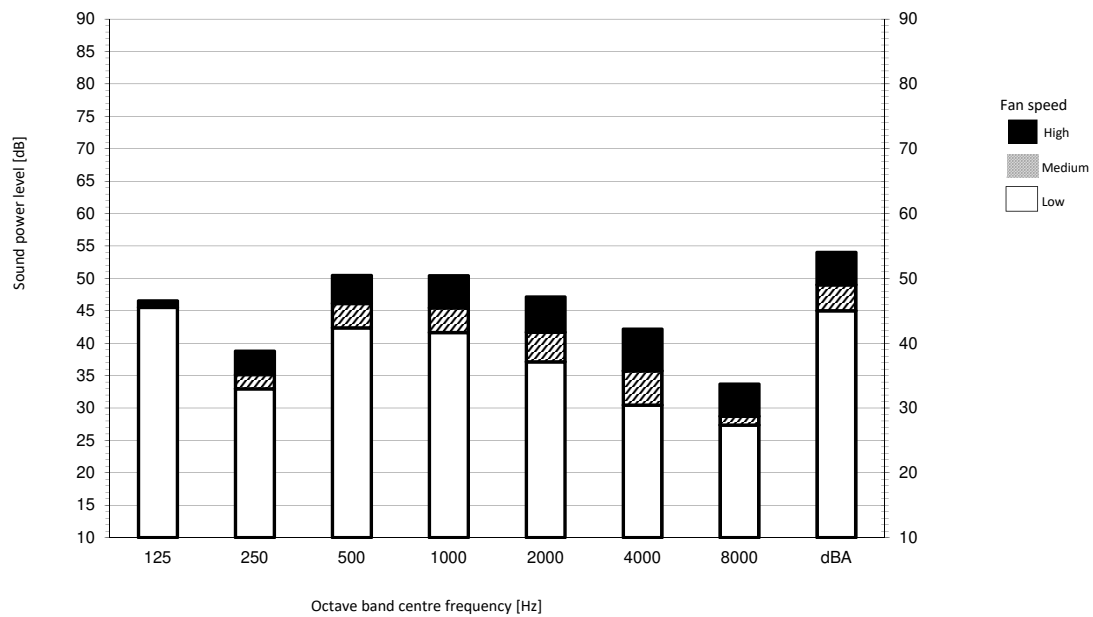
Notes

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

3D095590C

FXSQ20-25A

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

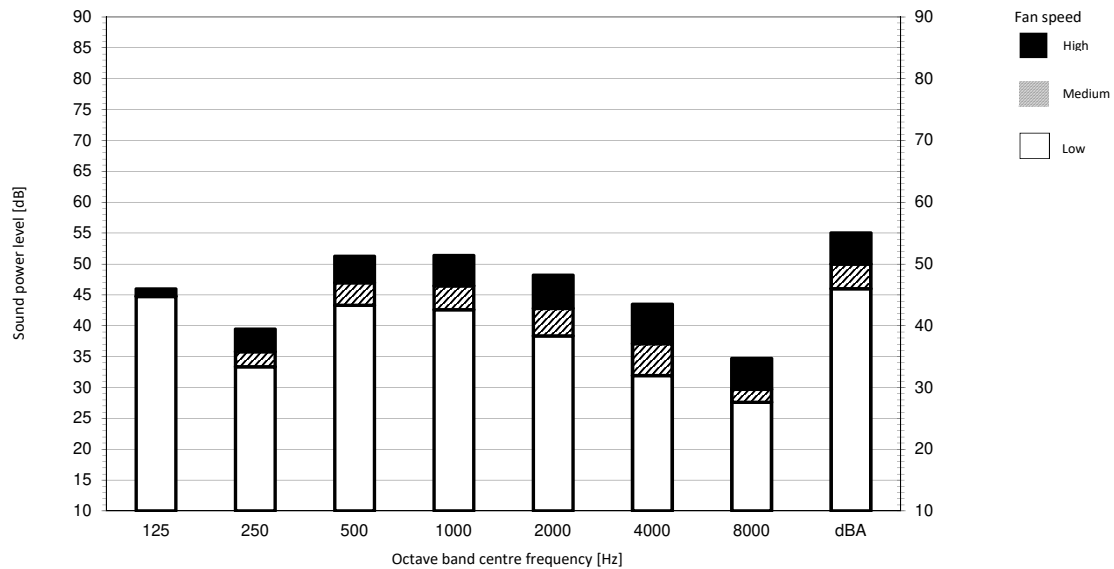
3D095591C

11 Sound data

11 - 1 Sound Power Spectrum - Cooling

FXSQ32A

Cooling mode



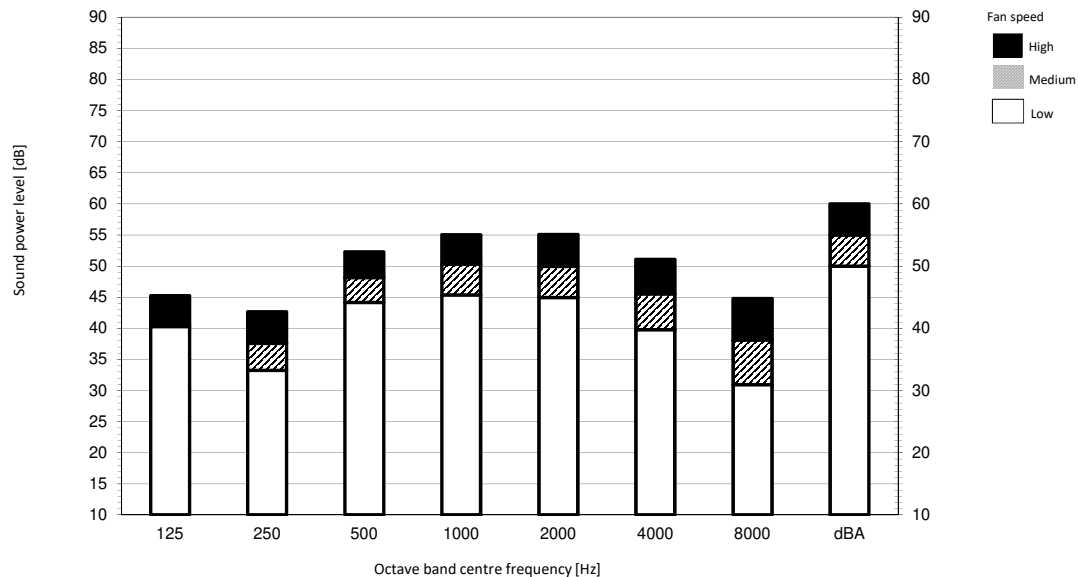
Notes

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

3D095592C

FXSQ40-50A

Cooling mode



Notes

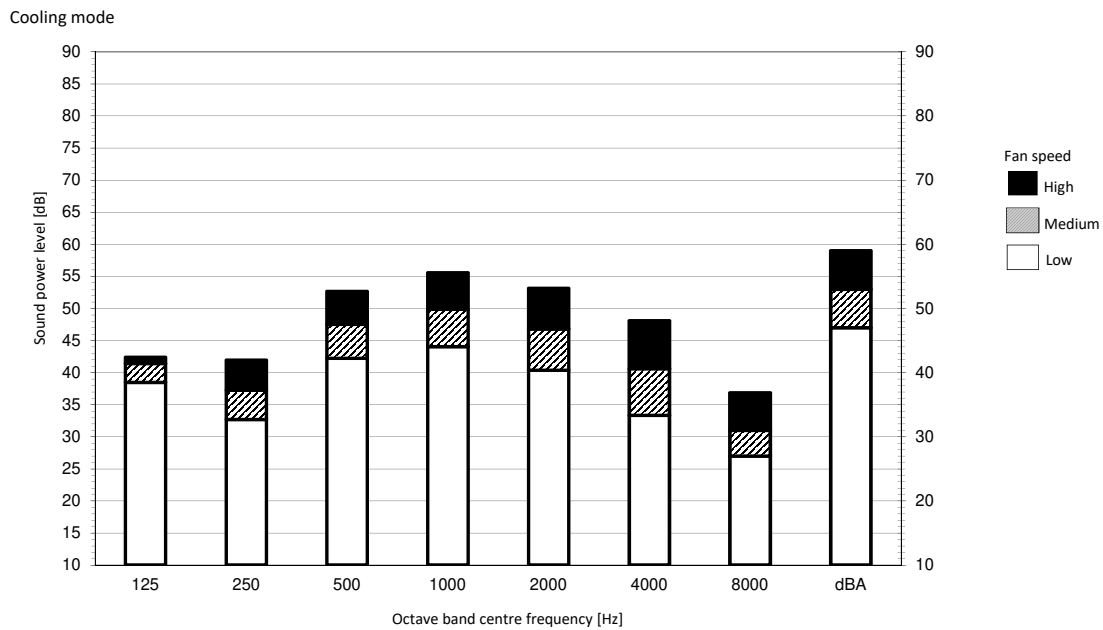
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = $-10E-6\mu W/m^2$.
3. Measured according to ISO 3744

3D095579C

11 Sound data

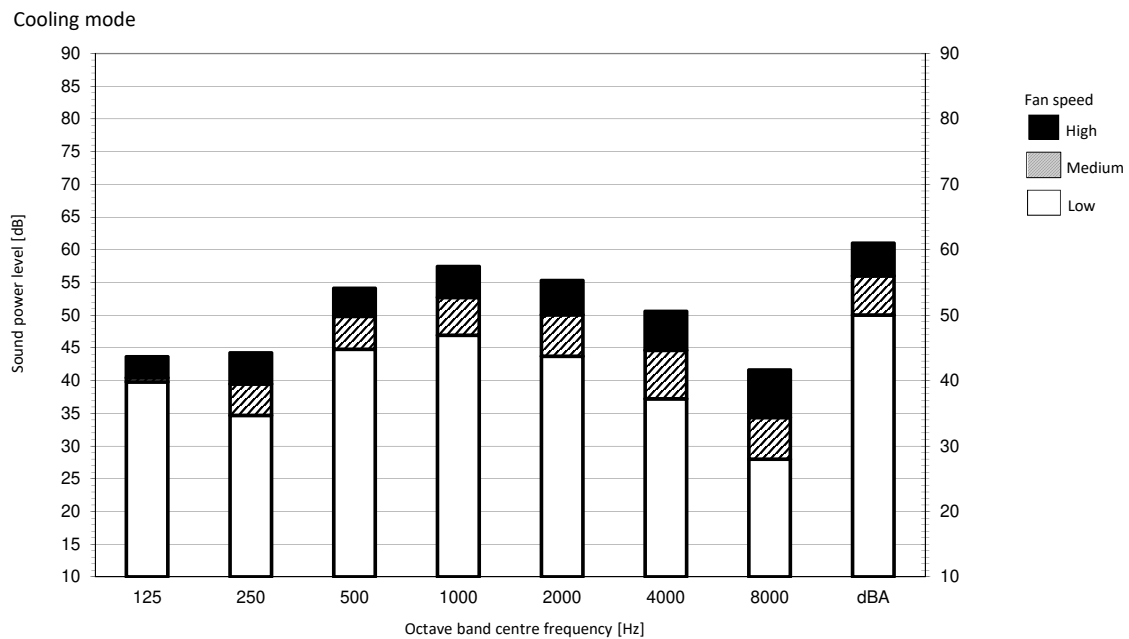
11 - 1 Sound Power Spectrum - Cooling

FXSQ63A



3D095593C

FXSQ80A



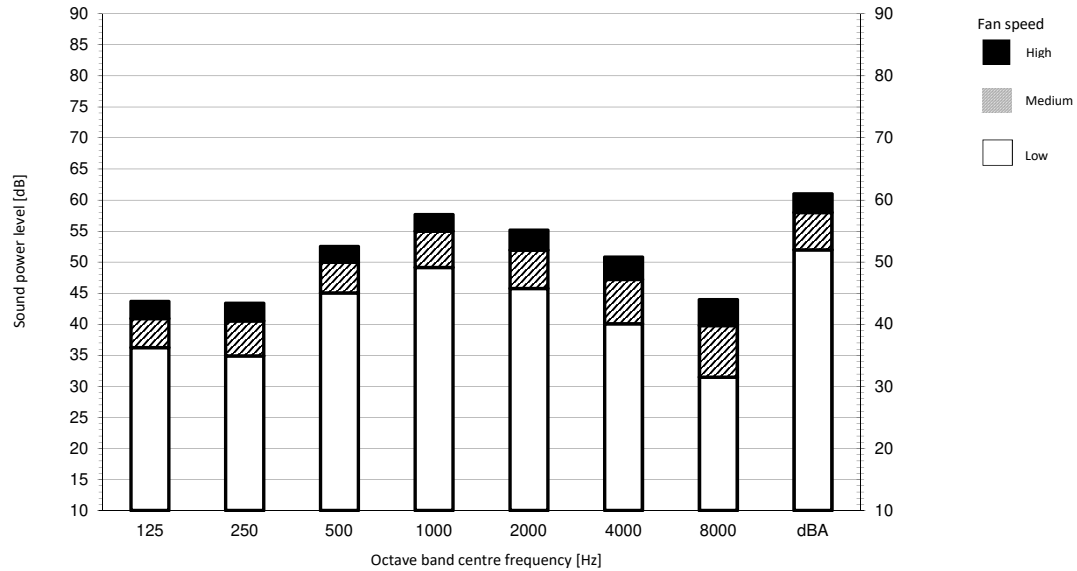
3D095594C

11 Sound data

11 - 1 Sound Power Spectrum - Cooling

FXSQ100A

Cooling mode



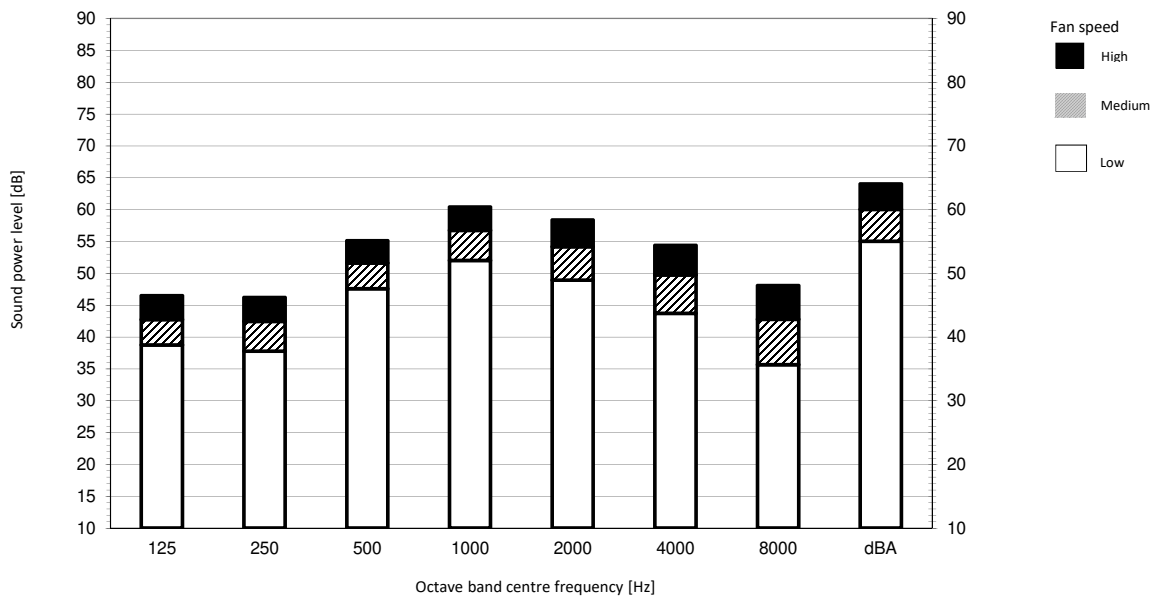
Notes

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

3D095596C

FXSQ125A

Cooling mode



Notes

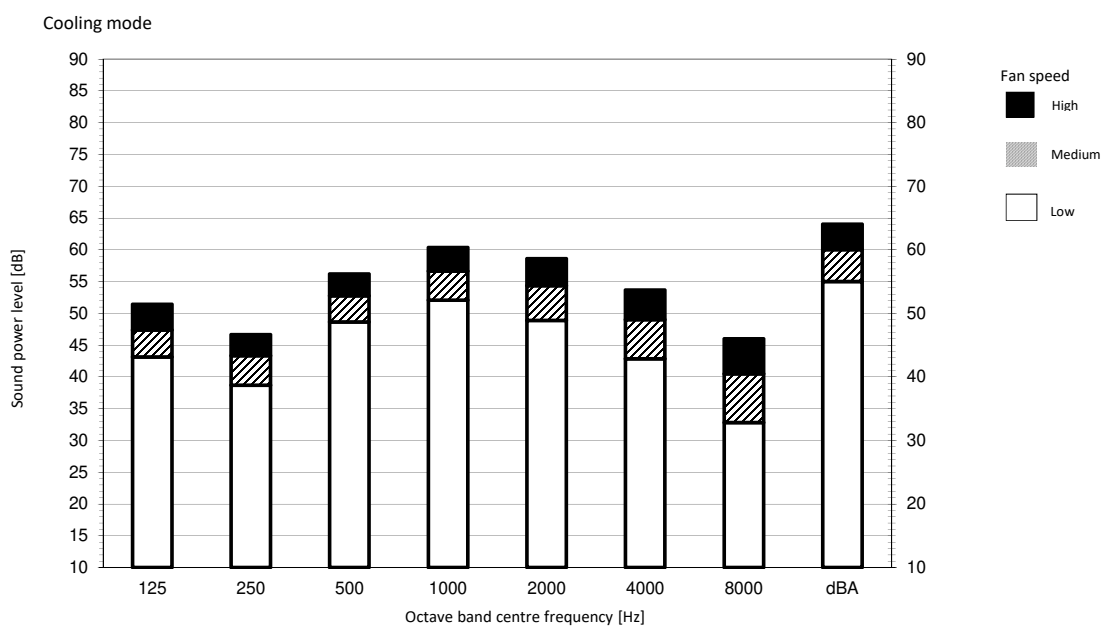
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic intensity 0dB = $-10E-6\mu W/m^2$.
3. Measured according to ISO 3744

3D095597C

11 Sound data

11 - 1 Sound Power Spectrum - Cooling

FXSQ140A



Notes

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

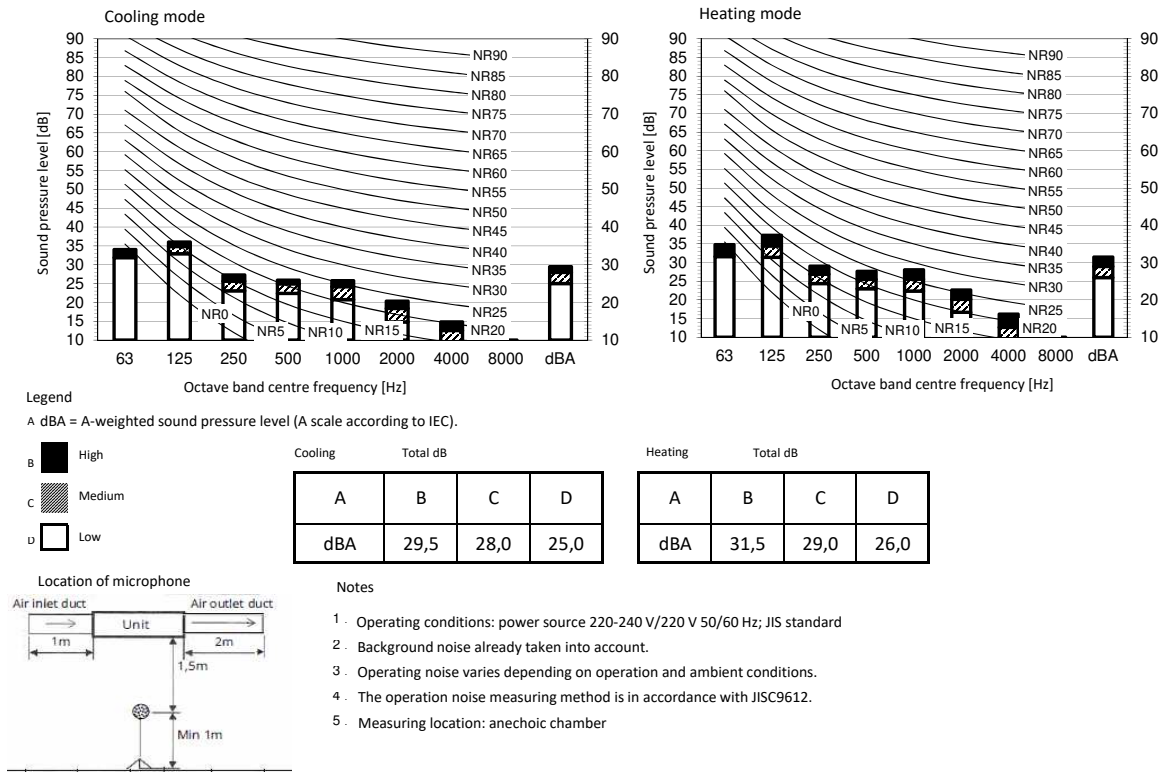
3D100610B

11 Sound data

11 - 2 Sound Pressure Spectrum

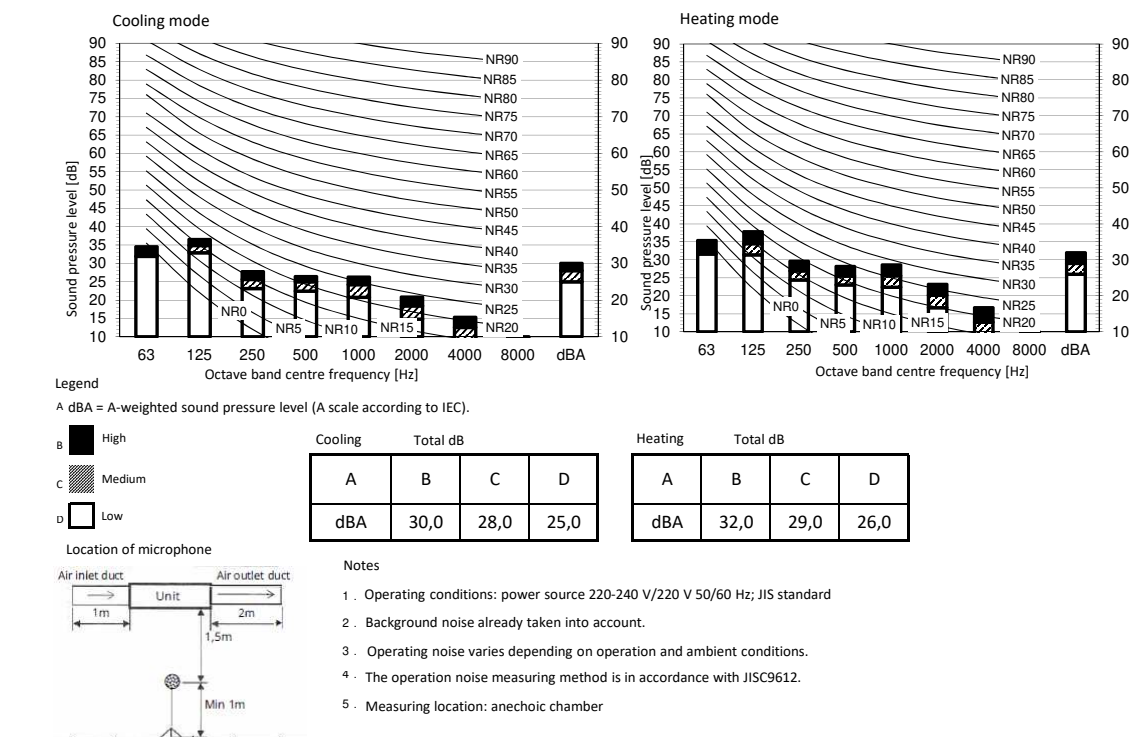
FXSQ15A

11



3D095568B

FXSQ20-25A

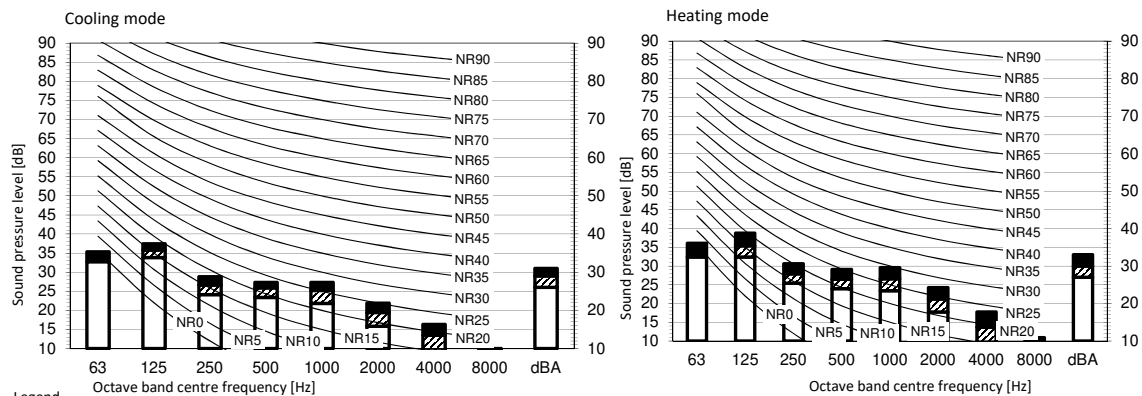


3D095569B

11 Sound data

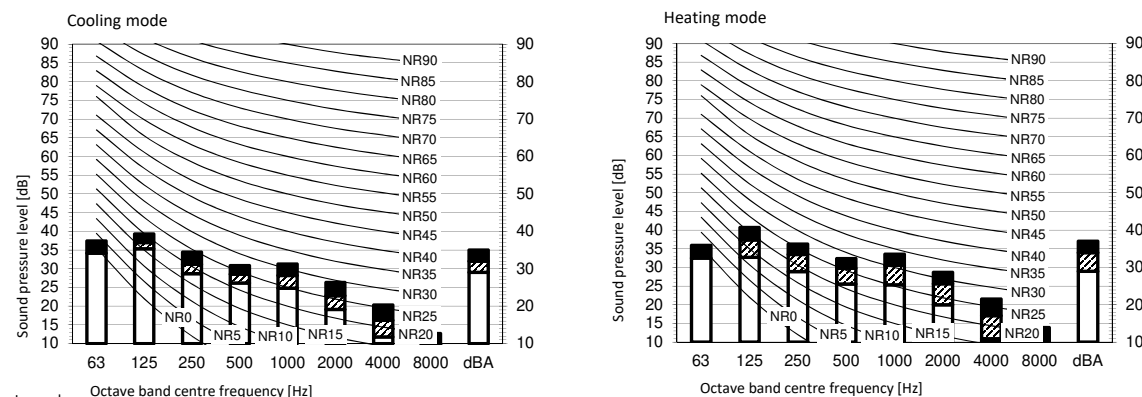
11 - 2 Sound Pressure Spectrum

FXSQ32A



3D095570B

FXSQ40-50A

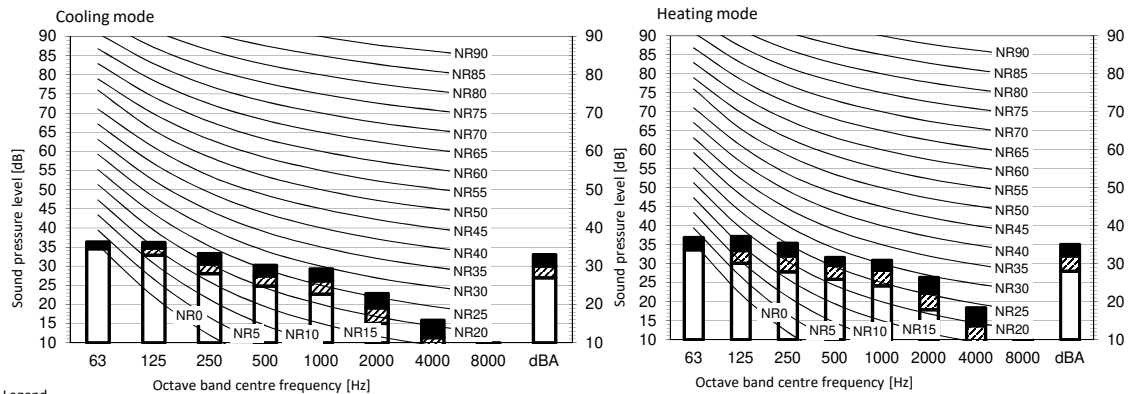


3D095575B

11 Sound data

11 - 2 Sound Pressure Spectrum

FXSQ63A

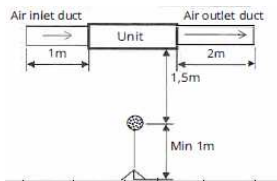


Legend

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

B High
C Medium
D Low

Location of microphone



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

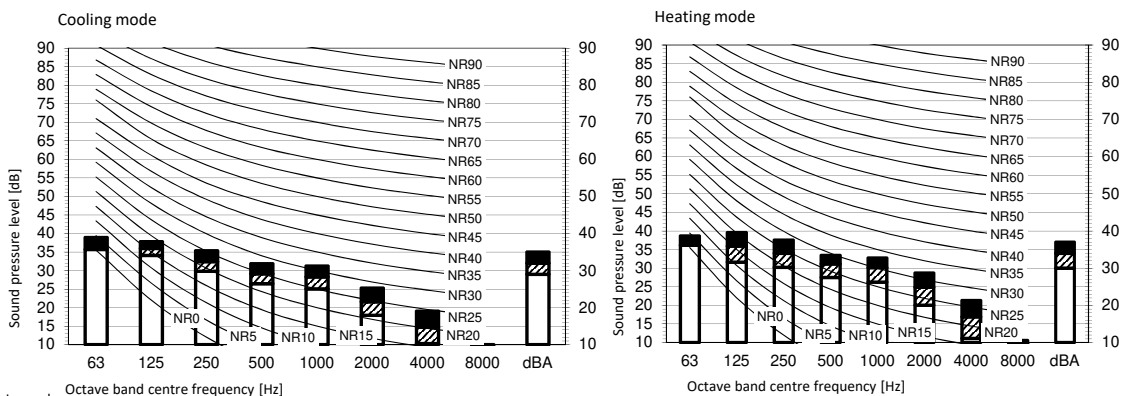
Heating	Total dB			
A	B	C	D	
dBA	35,0	32,0	28,0	

Notes

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

3D095571B

FXSQ80A

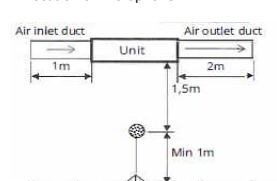


Legend

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

B High
C Medium
D Low

Location of microphone



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

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

Notes

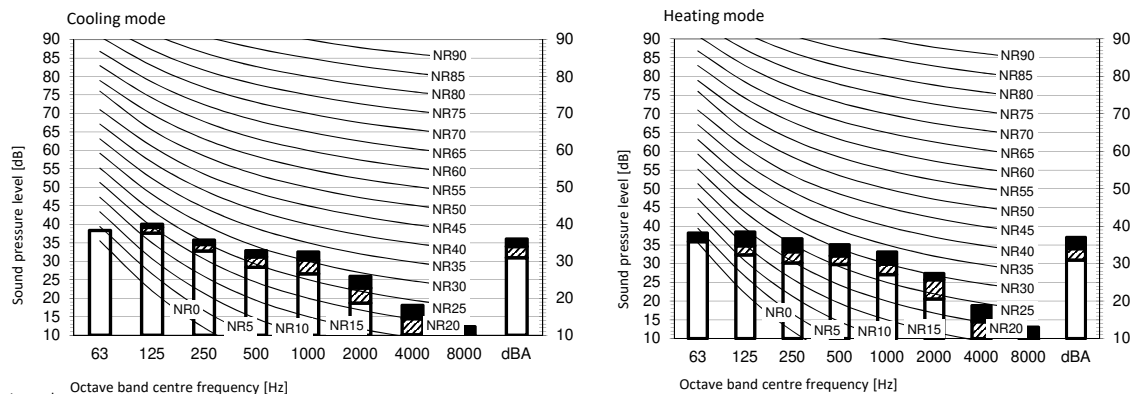
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

3D095572B

11 Sound data

11 - 2 Sound Pressure Spectrum

FXSQ100A



Legend

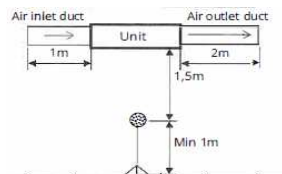
A dBA = A-weighted sound pressure level (A scale according to IEC).

B High
C Medium
D Low

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

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

Location of microphone

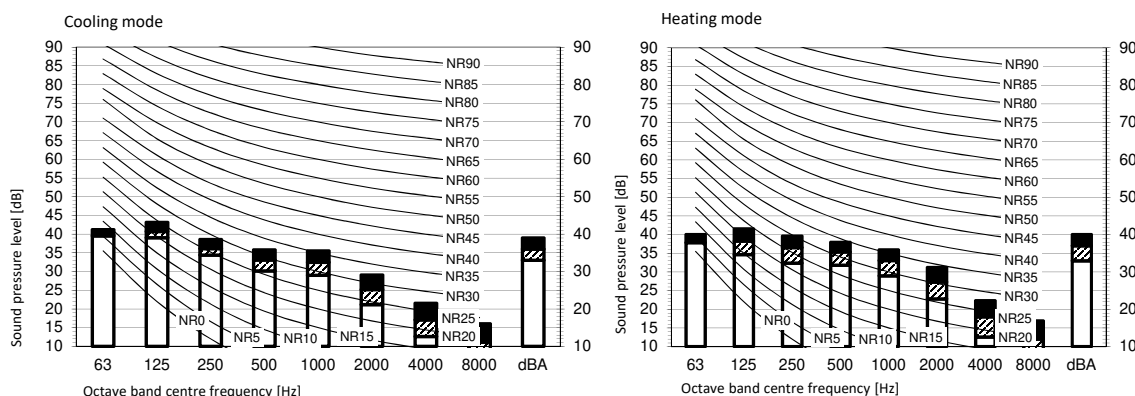


Notes

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

3D095573B

FXSQ125A



Legend

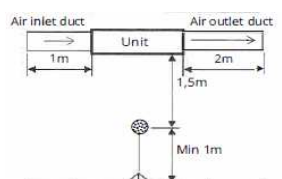
A dBA = A-weighted sound pressure level (A scale according to IEC).

B High
C Medium
D Low

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

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

Location of microphone



Notes

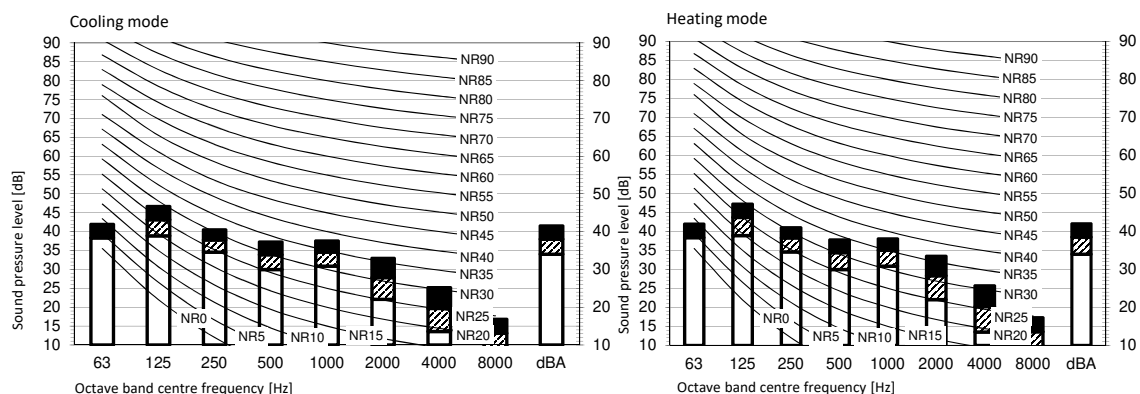
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D095574B

11 Sound data

11 - 2 Sound Pressure Spectrum

FXSQ140A

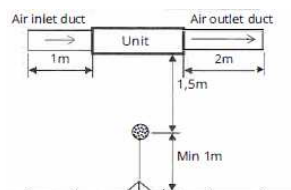


Legend

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

B High
 C Medium
 D Low

Location of microphone



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

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

Notes

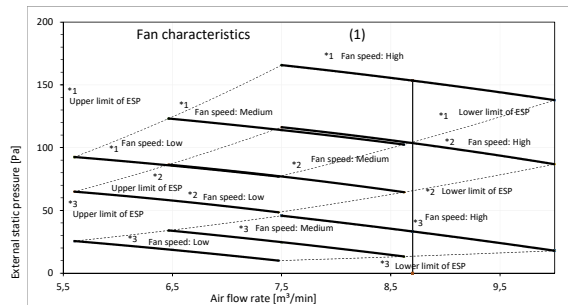
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D096622B

12 Fan characteristics

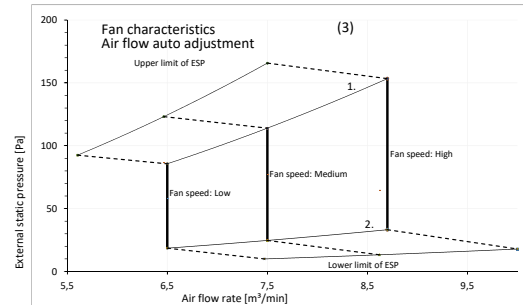
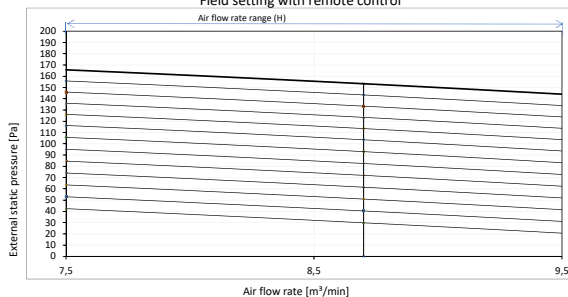
12 - 1 Fan Characteristics

FXSQ15A



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

Fan characteristics (2) Field setting with remote control

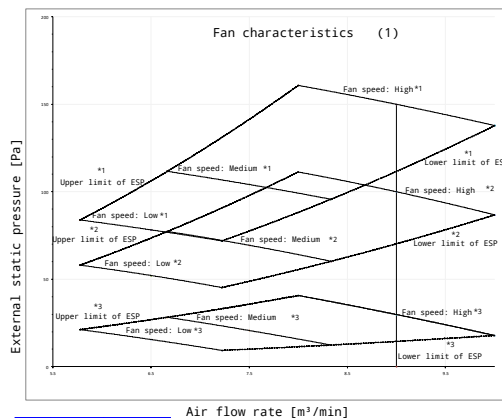


1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

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

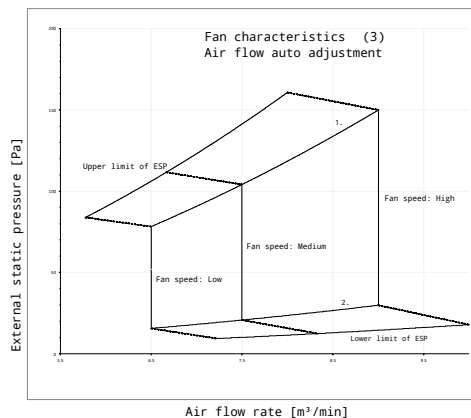
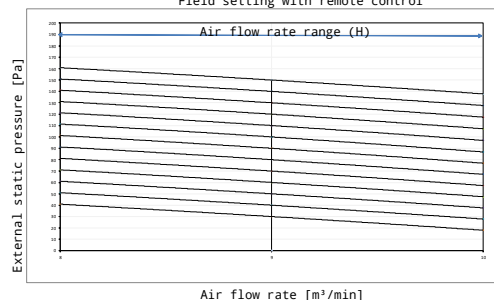
3D096999B

FXSQ20-25A



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

Fan characteristics (2) Field setting with remote control



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

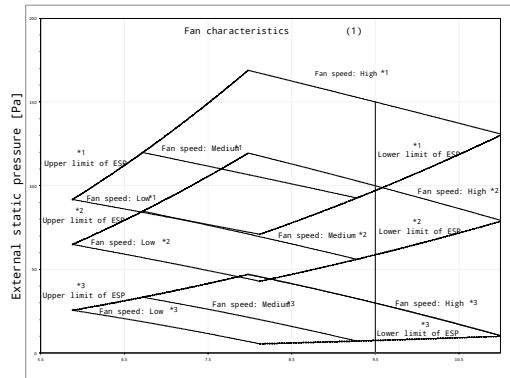
- Notes
1. The fan characteristics shown are in "fan only" mode.
 2. ESP: External Static Pressure

3D095680B

12 Fan characteristics

12 - 1 Fan Characteristics

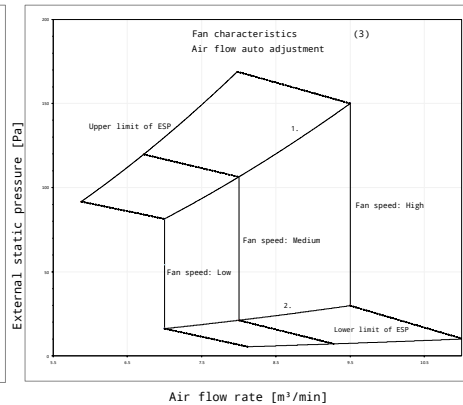
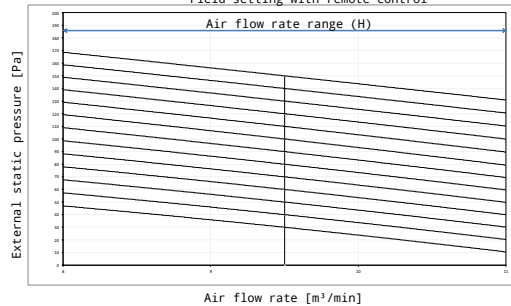
FXSQ32A



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

Air flow rate [m³/min]

Fan characteristics (2)
Field setting with remote control



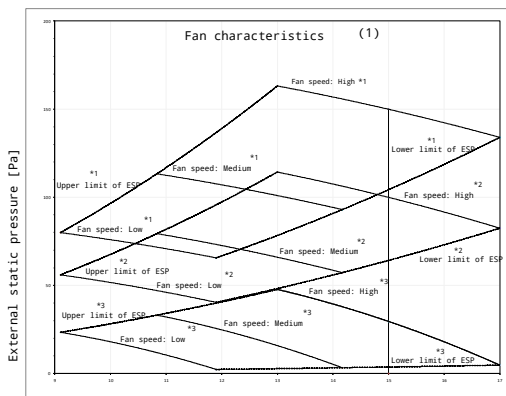
1. Upper limit of ESP by air flow auto adjustment
2. Lower limit of ESP by air flow auto adjustment

Notes

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

3D095681B

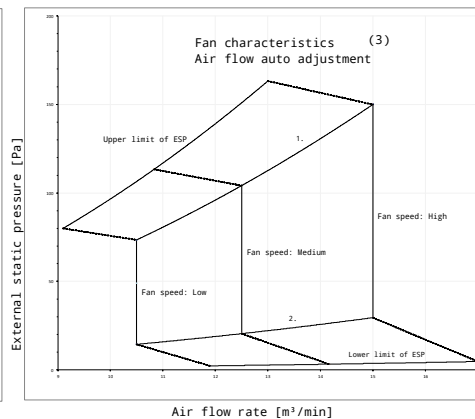
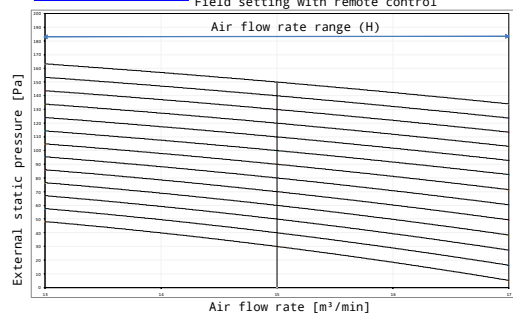
FXSQ40A



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

Air flow rate [m³/min]

Fan characteristics (2)
Field setting with remote control



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

Notes

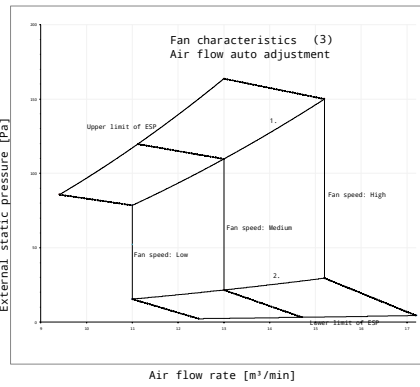
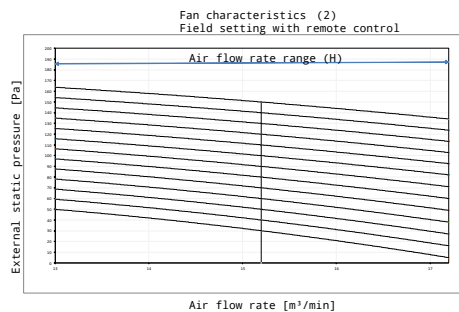
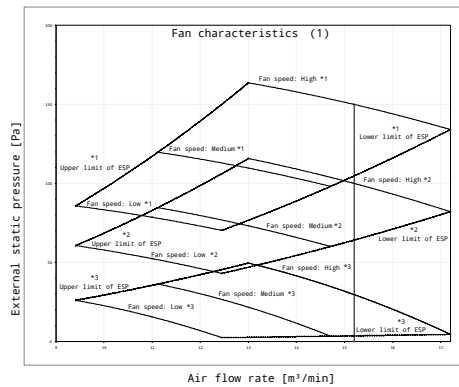
- 1.The fan characteristics shown are in "fan only" mode.
- 2.ESP: External Static Pressure

3D095682B

12 Fan characteristics

12 - 1 Fan Characteristics

FXSQ50A



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

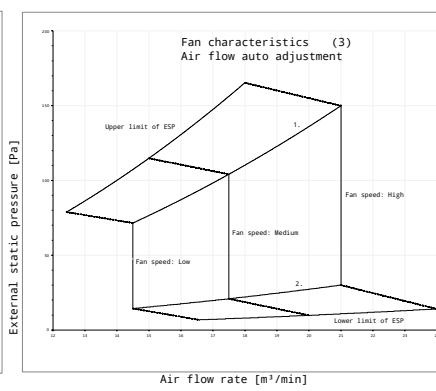
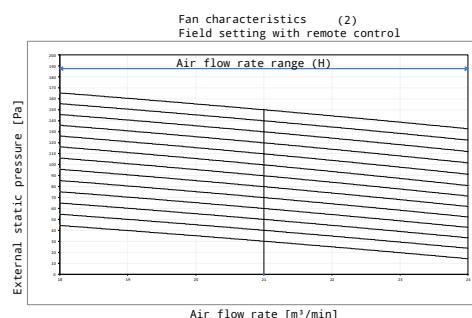
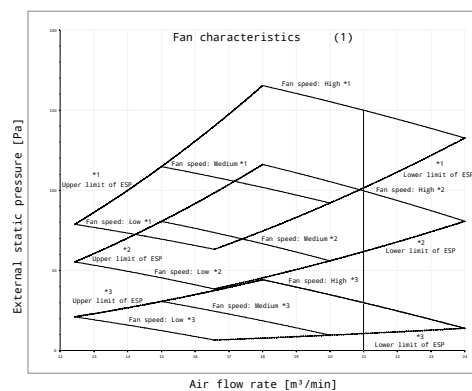
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	30

Notes

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

3D095688B

FXSQ63A



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

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

Notes

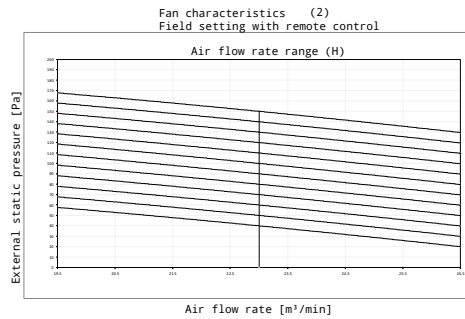
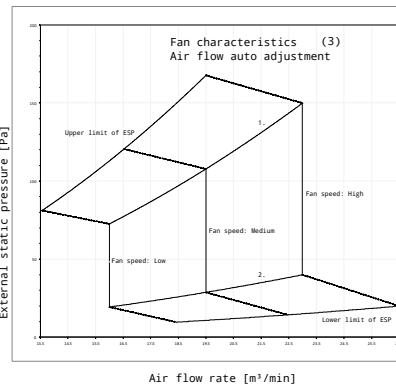
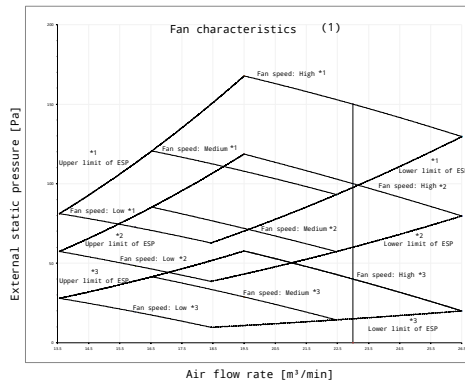
- 1.The fan characteristics shown are in "fan only" mode.
- 2.ESP: External Static Pressure

3D095690B

12 Fan characteristics

12 - 1 Fan Characteristics

FXSQ80A



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

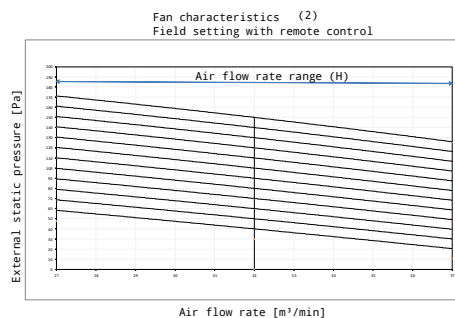
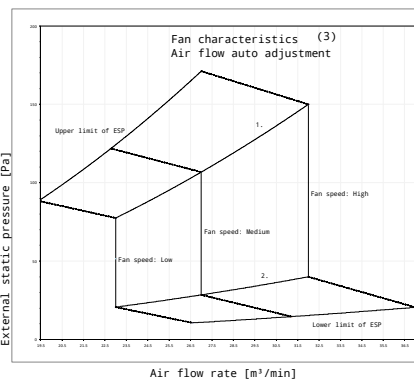
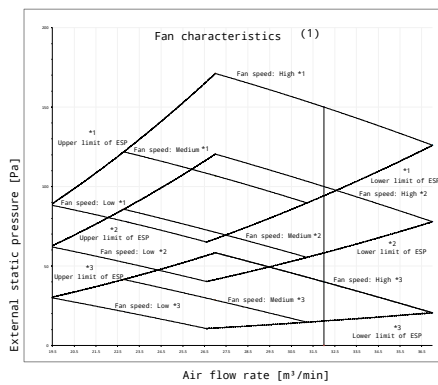
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	40

Notes

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

3D095692B

FXSQ100A



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

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

Notes

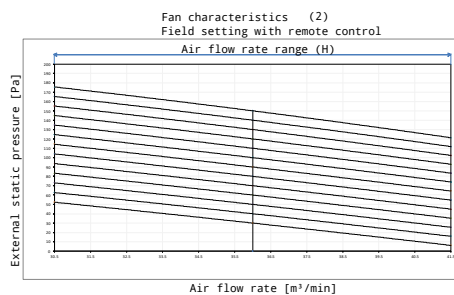
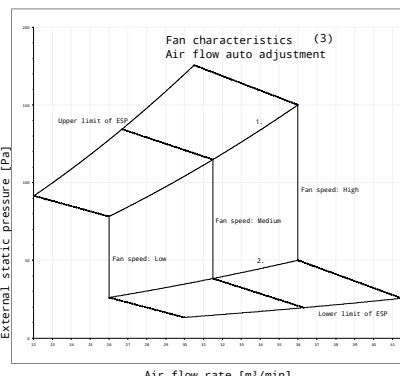
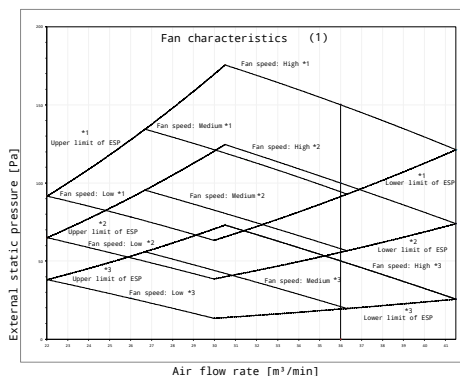
- 1.The fan characteristics shown are in "fan only" mode.
- 2.ESP: External Static Pressure

3D095696B

12 Fan characteristics

12 - 1 Fan Characteristics

FXSQ125A



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

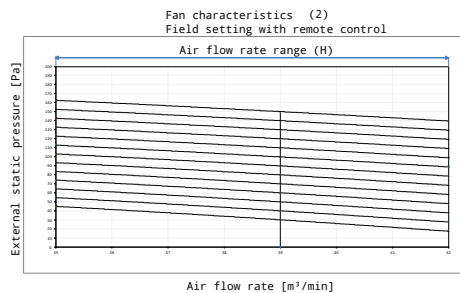
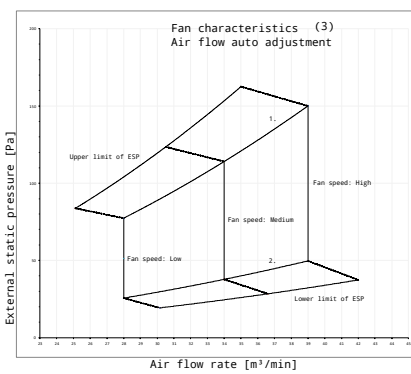
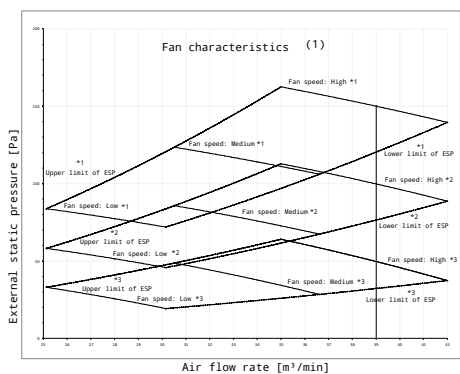
Mark		ESP [Pa]
*1	Maximum	150
*2	-	100
*3	Standard	50

Notes

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

3D095697B

FXSQ140A



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

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

Notes

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

3D096688B

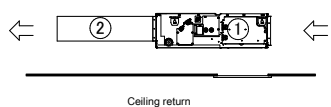
13 Installation

13 - 1 Installation Method

FXSQ-A

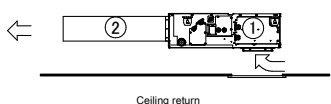
Installation methods

Rear suction



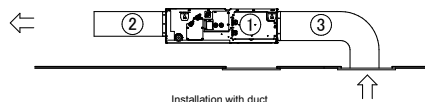
Ceiling return

Bottom suction



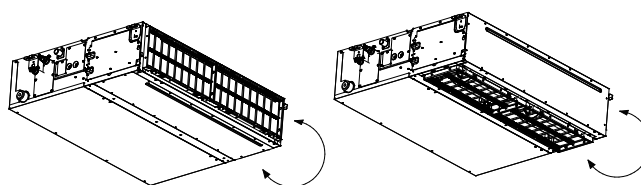
Ceiling return

Rear suction

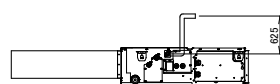


Installation with duct

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

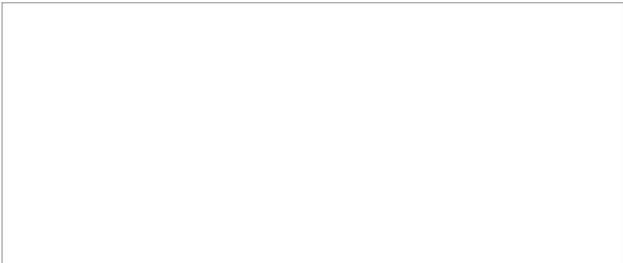


Easy modification from rear suction to bottom suction



Height of drain pump outlet pipe

3D094912A



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07/2021



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