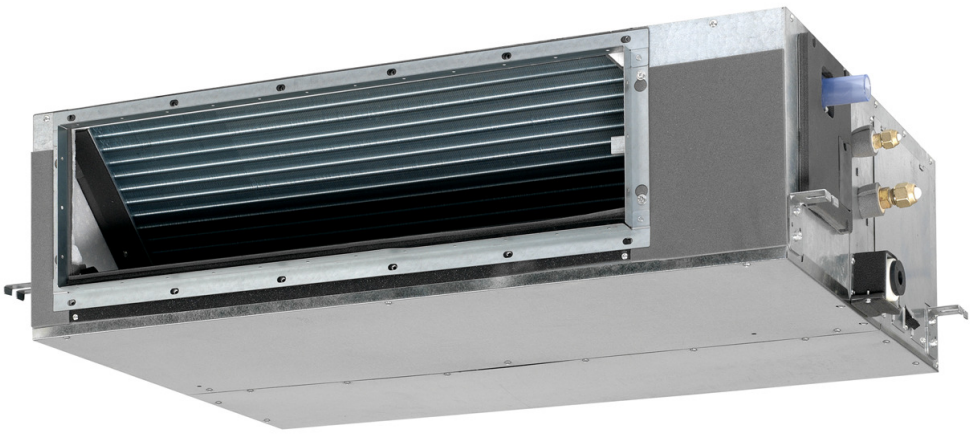
1 Features

- Reduction of power consumption of 20% (compared to FXSQ-M8 series) through use of new DC fan
- Improved comfort thanks to 3-step airflow control
- External static pressure up to 120 Pa facilitates the use with flexible ducts of variying lengths: ideal for shops and medium size offices
- Possibility to change ESP through wired remote control allows optimisation of the supply air volume
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- The use of inverter type outdoor units results in an air conditioning system with a high energy efficiency and very low sound level
- Home leave operation saves energy during absence
- Standard air filter: removes airborne dust particles to ensure a steady supply of clean air
- Built-in drain pump as standard increases reliability of the drain system
- Allows multi tenant applications (option PCB required)
- Easy installation thanks to automatic air flow adjustment towards nominal air flow rate



optional | standard | 3 steps

via wired remote control | optional | optional

2 Specifications

2-1 TECHNICAL SPECIFICATIONS				FXSQ20P7VEB	FXSQ25P7VEB	FXSQ32P7VEB	FXSQ40P7VEB	FXSQ50P7VEB
Capacity	Cooling		kW	2.2	2.8	3.6	4.5	5.6
	Heating		kW	2.5	3.2	4.0	5.0	6.3
Power Input (50Hz)	Cooling		kW	73	73	79	192	192
	Heating		kW	73	73	79	192	192
Power Input (60Hz)	Cooling		kW	73	73	79	192	192
	Heating		kW	73	73	79	192	192
Casing	Colour			Non painted				
	Material			Galvanised steel				
Dimensions	Packing	Height	mm	355	355	355	355	355
		Width	mm	770	770	770	920	920
		Depth	mm	900	900	900	900	900
	Unit	Height	mm	300	300	300	300	300
		Width	mm	550	550	550	700	700
		Depth	mm	700	700	700	700	700
Weight	Unit		kg	23	23	23	26	26
	Packed Unit		kg	28	28	28	32	32
Required Ceiling Void			mm	>350				
Heat Exchanger	Dimensions	Length	mm	290	290	290	440	440
		Nr of Rows		3	3	3	3	3
		Fin Pitch	mm	1.75	1.75	1.75	1.75	1.75
		Nr of Passes		3	3	3	4	4
		Face Area	m²	0.097	0.097	0.097	0.148	0.148
		Nr of Stages		16	16	16	16	16
		Empty Tubeplate Hole		12				
	Tube type			Hi-XSS (7)				
	Fin	Fin type		Symmetric waffle louvre				
		Treatment		Hydrophilic				
Fan	Type			Sirocco fan				
	Quantity			1	1	1	1	1
Cooling	High	m³/min		9	9	9.5	16	16
	Low	m³/min		6.5	6.5	7	11	11
Heating	High	m³/min		9	9	9.5	16	16
	Low	m³/min		6.5	6.5	7	11	11
Fan	External static pressure	High	Pa	70	70	70	100	100
		Standard	Pa	30	30	30	30	30
	Motor	Quantity		1	1	1	1	1
		Model		Brushless DC motor				
		Steps		9	9	9	10	10
Motor	Speed (cooling)	High	rpm	1,031	1,031	1,061	1,186	1,186
		Low	rpm	802	802	827	875	875
	Speed (heating)	High	rpm	1,031	1,031	1,061	1,186	1,186
		Low	rpm	802	802	827	875	875
Fan	Motor	Output (high)	W	90	90	90	140	140
		Drive		Direct drive				
Refrigerant	Name			R-410A				
Sound level	Cooling	Sound power (nominal)	dBA	55	55	56	63	63
Cooling	Sound Pressure	High	dBA	32	32	33	37	37
		Low	dBA	26	26	27	29	29
Heating	Sound Pressure	High	dBA	32	32	33	37	37
		Low	dBA	26	26	27	29	29

2 Specifications

2-1 TECHNICAL SPECIFICATIONS				FXSQ20P7VEB	FXSQ25P7VEB	FXSQ32P7VEB	FXSQ40P7VEB	FXSQ50P7VEB
Piping connections	Liquid (OD)	Type		Flare connection				
		Diameter	mm	6.35	6.35	6.35	6.35	6.35
	Gas	Type		Flare connection				
		Diameter	mm	12.7	12.7	12.7	12.7	12.7
	Drain	Diameter	mm	VP25 (O.D. 32 / I.D. 25)				
	Heat Insulation			Both liquid and gas pipes				
Decoration Panel	Model			BYBS32DJW1	BYBS32DJW1	BYBS32DJW1	BYBS45DJW1	BYBS45DJW1
	Colour			White (10Y9/0,5)				
	Dimensions	Height	mm	55	55	55	55	55
		Width	mm	650	650	650	800	800
		Depth	mm	500	500	500	500	500
	Weight		kg	3.0	3.0	3.0	3.5	3.5
Drain-up Height			mm	625	625	625	625	625
Air Filter				Resin net with mold resistance				
Refrigerant control				Electronic expansion valve				
Safety devices				PC board fuse				
				PC board fuse (fan driver)				
				Drain pump fuse				
Notes				Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.				
				Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m.				
				Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.				
				The sound pressure values are mentioned for a unit installed with rear suction				

2-1 TECHNICAL SPECIFICATIONS				FXSQ63P7VEB	FXSQ80P7VEB	FXSQ100P7VEB	FXSQ125P7VEB
Capacity	Cooling		kW	7.1	9.0	11.2	14.0
	Heating		kW	8.0	10.0	12.5	16.0
Power Input (50Hz)	Cooling		kW	142	163	247	303
	Heating		kW	142	163	247	303
Power Input (60Hz)	Cooling		kW	142	163	247	303
	Heating		kW	142	163	247	303
Casing	Colour			Non painted			
	Material			Galvanised steel			
Dimensions	Packing	Height	mm	355	355	355	355
		Width	mm	1,220	1,220	1,620	1,620
		Depth	mm	900	900	900	900
	Unit	Height	mm	300	300	300	300
		Width	mm	1,000	1,000	1,400	1,400
		Depth	mm	700	700	700	700
Weight	Unit		kg	35	35	46	46
	Packed Unit		kg	42	42	54	54
Required Ceiling Void			mm	>350			
Heat Exchanger	Dimensions	Length	mm	740	740	1,140	1,140
		Nr of Rows		3	3	3	3
		Fin Pitch	mm	1.75	1.75	1.75	1.75
		Nr of Passes		7	7	11	11
		Face Area	m²	0.249	0.249	0.383	0.383
		Nr of Stages		16	16	16	16
	Tube type			Hi-XSS (7)			
	Fin	Fin type		Symmetric waffle louvre			
		Treatment		Hydrophilic			
Fan	Type			Sirocco fan			
	Quantity			2	2	3	3
Cooling	High	m³/min		19.5	25	32	39
	Low	m³/min		16	20	23	28
Heating	High	m³/min		19.5	25	32	39
	Low	m³/min		16	20	23	28

2 Specifications

2-1 TECHNICAL SPECIFICATIONS				FXSQ63P7VEB	FXSQ80P7VEB	FXSQ100P7VEB	FXSQ125P7VEB
Fan	External static pressure	High	Pa	100	100	120	120
		Standard	Pa	30	40	40	50
	Motor	Quantity		1	1	1	1
		Model		Brushless DC motor			
		Steps		8	8	8	8
Motor	Speed (cooling)	High	rpm	975	1,161	1,060	1,218
		Low	rpm	840	960	813	920
	Speed (heating)	High	rpm	975	1,161	1,060	1,218
		Low	rpm	840	960	813	920
Fan	Motor	Output (high)	W	350	350	350	350
		Drive		Direct drive			
Refrigerant	Name			R-410A			
Sound level	Cooling	Sound power (nominal)	dBA	59	63	61	66
Cooling	Sound Pressure	High	dBA	37	38	38	40
		Low	dBA	30	32	32	33
Heating	Sound Pressure	High	dBA	37	38	38	40
		Low	dBA	30	32	32	33
Piping connections	Liquid (OD)	Type		Flare connection			
		Diameter	mm	9.52	9.52	9.52	9.52
	Gas	Type		Flare connection			
		Diameter	mm	15.9	15.9	15.9	15.9
	Drain	Diameter	mm	VP25 (O.D. 32 / I.D. 25)			
	Heat Insulation			Both liquid and gas pipes			
Decoration Panel	Model			BYBS71DJW1	BYBS125DJW1	BYBS125DJW1	BYBS125DJW1
	Colour			White (10Y9/0,5)			
	Dimensions	Height	mm	55	55	55	55
		Width	mm	1,100	1,500	1,500	1,500
		Depth	mm	500	500	500	500
	Weight		kg	4.5	6.5	6.5	6.5
Drain-up Height			mm	625	625	625	625
Air Filter				Resin net with mold resistance			
Refrigerant control				Electronic expansion valve			
Safety devices				PC board fuse			
				PC board fuse (fan driver)			
				Drain pump fuse			
Notes				Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m, level difference : 0m.			
				Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m.			
				Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.			
				The sound pressure values are mentioned for a unit installed with rear suction			

2-2 ELECTRICAL SPECIFICATIONS (50HZ)			FXSQ20P7VEB	FXSQ25P7VEB	FXSQ32P7VEB	FXSQ40P7VEB	FXSQ50P7VEB
Power Supply	Name		VE				
	Frequency	Hz	50	50	50	50	50
	Voltage	V	220-240				
Current	Minimum circuit amps (MCA)	A	0.4	0.4	0.4	1.2	1.2
	Maximum fuse amps (MFA)	A	16	16	16	16	16
Voltage range	Minimum	V	-10%				
	Maximum	V	+10%				

2 Specifications

2-2 ELECTRICAL SPECIFICATIONS (50HZ)	FXSQ20P7VEB	FXSQ25P7VEB	FXSQ32P7VEB	FXSQ40P7VEB	FXSQ50P7VEB
Notes	Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.				
	Maximum allowable voltage range variation between phases is 2%.				
	Select wire size based on the MCA				
	Instead of a fuse, use a circuit breaker				

2-2 ELECTRICAL SPECIFICATIONS (50HZ)			FXSQ63P7VEB	FXSQ80P7VEB	FXSQ100P7VEB	FXSQ125P7VEB
Power Supply	Name		VE			
	Frequency	Hz	50	50	50	50
	Voltage	V	220-240			
Current	Minimum circuit amps (MCA)	A	1.1	1.3	1.6	2.1
	Maximum fuse amps (MFA)	A	16	16	16	16
Voltage range	Minimum	V	-10%			
	Maximum	V	+10%			
Notes	Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.					
	Maximum allowable voltage range variation between phases is 2%.					
	Select wire size based on the MCA					
	Instead of a fuse, use a circuit breaker					

2-3 ELECTRICAL SPECIFICATIONS (60HZ)			FXSQ20P7VEB	FXSQ25P7VEB	FXSQ32P7VEB	FXSQ40P7VEB	FXSQ50P7VEB
Power Supply	Name		VE				
	Frequency	Hz	60	60	60	60	60
	Voltage	V	220	220	220	220	220
Current	Minimum circuit amps (MCA)	A	0.4	0.4	0.4	1.2	1.2
	Maximum fuse amps (MFA)	A	16	16	16	16	16
Voltage range	Minimum	V	-10%				
	Maximum	V	+10%				
Notes	Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.						
	Maximum allowable voltage range variation between phases is 2%.						
	Select wire size based on the MCA						
	Instead of a fuse, use a circuit breaker						

2-3 ELECTRICAL SPECIFICATIONS (60HZ)			FXSQ63P7VEB	FXSQ80P7VEB	FXSQ100P7VEB	FXSQ125P7VEB
Power Supply	Name		VE			
	Frequency	Hz	60	60	60	60
	Voltage	V	220	220	220	220
Current	Minimum circuit amps (MCA)	A	1.1	1.3	1.6	2.1
	Maximum fuse amps (MFA)	A	16	16	16	16
Voltage range	Minimum	V	-10%			
	Maximum	V	+10%			
Notes	Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.					
	Maximum allowable voltage range variation between phases is 2%.					
	Select wire size based on the MCA					
	Instead of a fuse, use a circuit breaker					

3 Electrical data

FXSQ-P

Units						Power supply	
Model	Type	Hz	Volts	Min.	Max.	MCA	MFA
FXSQ20	VE	50/60	220~240V / 220V	-10%	+10%	0.4	16
FXSQ25						0.4	16
FXSQ32						0.4	16
FXSQ40						1.2	16
FXSQ50						1.2	16
FXSQ63						1.1	16
FXSQ80						1.3	16
FXSQ100						1.6	16
FXSQ125						2.1	16

SYMBOLS

MCA: Min. Circuit Amps (A)
MFA: Max. Fuse Amps (A) (See note 4)

NOTES

1 Voltage range
The volts are suitable for use on electrical systems where the voltage supplied to the unit terminals is not below or above listed range limits.
2 The maximum allowable voltage variation between phases is 2%.
3 Select a wire size based on the MCA.
4 Instead of a fuse, use a circuit breaker.

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4 Safety device settings

	Safety devices		20	25	32	40	50	63	80	100	125
FXSQ	PC Board Fuse		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
	PC Board Fuse (Fan Driver)		250V 5A	250V 5A	250V 5A	250V 5A	250V 5A	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

5 Options

FXSQ20-125P

Options

Item \ Type		FXSQ20,25,32	FXSQ40,50	FXSQ63,80	FXSQ100,125
Panel related	Decoration panel	BYBS32	BYBS45D	BYBS71D	BYBS125D
Air inlet and air discharge outlet related	Air discharge adapter for round duct	KDAJ25K36A	KDAJ25K56A	KDAJ25KA71A	KDAJ25KA140A

Operation Control

Item \ Type			FXSQ20,25,32	FXSQ40,50	FXSQ63,80	FXSQ100,125
Remote Control	Wired Type		BRC1D528			
	Infrared type	HP	BRC4C65			
		CO	BRC4C66			
Simplified remote control			BRC2C51			
Remote control for hotel use			BRC3A61			
Option BCB for external el. heater, humidifier and/or hour meter (*1), (*2), (*3), (*4)			EKRP1B2A			
Wiring adapter for electrical appendices (1) (*2), (*4)			KRP2A51			
Wiring adapter for electrical appendices (2) (*4)			KRP4A51			
Remote sensor			KRCS01-1			
Central remote control			DCS302CA51			
Electrical box with earth terminal (3 blocks)			KJB311A			
Unified ON/OFF control			DCS301BA51			
Electrical box with earth terminal (2 blocks)			KJB212A			
Schedule timer			DST301BA51			
External adapter for outdoor unit (installation on indoor unit) (*4)			DTA104A61			
Mounting plate for adapter PCB			KRP4A96			

NOTES

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

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

(*3): An electrical heater can not be used for VRV system cooling only.

(*4): Mounting plate KRP4A96 is required for these options. Maximum 2 option PCB's can be mounted.

Contents of accessory bag

Description	Quantity
	FXSQ20,25,32,40,50,60,71,100,125
Hexagon tapping screw (M5x16)	16
Round plain washer for wood	8
Installation and operation manual	1
Hose band	1
Insulation for joint (GAS)	1
Insulation for joint (LIQUID)	1
Drain hose	1
Drain hose sealing material	1
Sealing material	2

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6 Capacity tables

6 - 1 Cooling capacity tables

FXSQ-P7

TC: Total Capacity: kW ; SHC: Sensible heat capacity: kW

Unit size	Outdoor air temp. (°CDB)	Outdoor air temp. (°CDB)	Indoor air temperature												
			14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB
			20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB
			TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC
20	10.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.8	2.1
	12.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.7	2.0
	14.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.7	2.0
	16.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.7	2.0
	18.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.6	2.0
	20.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.5	1.9	2.6	2.0
	21.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.5	1.9	2.6	2.0
	23.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.5	1.9	2.5	1.9
	25.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.5	1.9	2.5	1.9
	27.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.9
	29.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.8	2.4	1.9
	31.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.8	2.4	1.8
	33.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.3	1.8	2.4	1.8
	35.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.2	1.9	2.3	1.8	2.3	1.8
	37.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.2	1.8	2.2	1.7	2.3	1.8
	39.0	1.5	1.5	1.8	1.8	2.1	1.9	2.1	1.9	2.2	1.8	2.2	1.7	2.3	1.8
25	10.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	3.0	2.3	3.3	2.4	3.5	2.4
	12.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	3.0	2.3	3.3	2.4	3.5	2.4
	14.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	3.0	2.3	3.3	2.4	3.4	2.4
	16.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	3.0	2.3	3.3	2.4	3.4	2.4
	18.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	3.0	2.3	3.3	2.4	3.4	2.4
	20.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	3.0	2.3	3.2	2.3	3.3	2.3
	21.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	3.0	2.3	3.2	2.3	3.3	2.3
	23.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	3.0	2.3	3.2	2.3	3.2	2.3
	25.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	3.0	2.3	3.1	2.3	3.2	2.3
	27.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	3.0	2.3	3.1	2.2	3.2	2.3
	29.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	3.0	2.3	3.0	2.2	3.1	2.2
	31.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	2.9	2.3	3.0	2.2	3.1	2.2
	33.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	2.9	2.3	2.9	2.2	3.0	2.2
	35.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	2.8	2.2	2.9	2.1	3.0	2.2
	37.0	1.9	1.8	2.3	2.0	2.6	2.3	2.8	2.3	2.8	2.2	2.9	2.1	2.9	2.1
	39.0	1.9	1.8	2.3	2.0	2.6	2.3	2.7	2.2	2.7	2.2	2.8	2.1	2.9	2.1
32	10.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.6	3.0
	12.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.5	3.0
	14.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.4	3.0
	16.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.4	3.0
	18.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	4.2	3.0	4.3	2.9
	20.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	4.2	2.9	4.3	2.9
	21.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	4.1	2.9	4.2	2.9
	23.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	4.1	2.9	4.2	2.9
	25.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	4.0	2.9	4.1	2.8
	27.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	4.0	2.8	4.1	2.8
	29.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	3.9	2.8	4.0	2.8
	31.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.8	2.9	3.8	2.8	3.9	2.7
	33.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.7	2.8	3.8	2.7	3.9	2.7
	35.0	2.4	2.2	2.9	2.5	3.4	2.8	3.6	2.9	3.6	2.8	3.7	2.7	3.8	2.7
	37.0	2.4	2.2	2.9	2.5	3.4	2.8	3.5	2.8	3.6	2.8	3.7	2.7	3.8	2.7
	39.0	2.4	2.2	2.9	2.5	3.4	2.8	3.5	2.8	3.5	2.7	3.6	2.6	3.7	2.6
40	10.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.8	3.8	5.4	3.9	5.7	4.0
	12.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.8	3.8	5.4	3.9	5.6	4.0
	14.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.8	3.8	5.4	3.9	5.5	4.0
	16.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.8	3.8	5.4	3.9	5.5	3.9
	18.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.8	3.8	5.3	3.9	5.4	3.9
	20.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.8	3.8	5.2	3.8	5.3	3.9
	21.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.8	3.8	5.2	3.8	5.3	3.8
	23.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.8	3.8	5.1	3.8	5.2	3.8
	25.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.8	3.8	5.0	3.7	5.1	3.8
	27.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.8	3.8	5.0	3.7	5.1	3.7
	29.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.8	3.8	4.9	3.7	5.0	3.7
	31.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.7	3.8	4.8	3.6	4.9	3.6
	33.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.6	3.7	4.7	3.6	4.8	3.6
	35.0	3.0	2.9	3.6	3.4	4.2	3.8	4.5	3.8	4.6	3.7	4.7	3.5	4.8	3.6
	37.0	3.0	2.9	3.6	3.4	4.2	3.8	4.4	3.8	4.5	3.6	4.6	3.5	4.7	3.5
	39.0	3.0	2.9	3.6	3.4	4.2	3.8	4.4	3.7	4.4	3.6	4.5	3.4	4.6	3.5
50	10.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	6.0	4.5	6.7	4.1	7.1	4.7
	12.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	6.0	4.5	6.7	4.1	7.0	4.7
	14.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	6.0	4.5	6.7	4.1	6.9	4.6
	16.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	6.0	4.5	6.7	4.1	6.8	4.6
	18.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	6.0	4.5	6.6	4.1	6.7	4.5
	20.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	6.0	4.5	6.5	4.0	6.6	4.5
	21.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	6.0	4.5	6.4	4.0	6.6	4.5
	23.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	6.0	4.5	6.4	4.0	6.5	4.4
	25.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	6.0	4.5	6.3	3.9	6.4	4.4
	27.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	6.0	4.5	6.2	3.9	6.3	4.3
	29.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	5.9	4.5	6.1	3.8	6.2	4.3
	31.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	5.9	4.4	6.0	3.8	6.1	4.3
	33.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	5.8	4.4	5.9	3.8	6.0	4.2
	35.0	3.8	3.6	4.5	3.9	5.2	3.8	5.6	4.4	5.7	4.3	5.8	3.7	5.9	4.2
	37.0	3.8	3.6	4.5	3.9	5.2	3.8	5.5	4.4	5.6	4.3	5.7	3.7	5.9	4.1
	39.0	3.8	3.6	4.5	3.9	5.2	3.8	5.4	4.3	5.5	4.2	5.6	3.6	5.8	4.1

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6 Capacity tables

6 - 1 Cooling capacity tables

FXSQ-P7

TC: Total Capacity: kW ; SHC: Sensible heat capacity: kW

Unit size	Outdoor air temp. (°CDB)	Indoor air temperature													
		14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
		20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
63	10.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.6	5.6	8.5	5.8	9.0	6.4
	12.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.6	5.6	8.5	5.8	8.9	6.3
	14.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.6	5.6	8.5	5.8	8.7	6.3
	16.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.6	5.6	8.5	5.8	8.6	6.3
	18.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.6	5.6	8.3	5.8	8.5	6.2
	20.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.6	5.6	8.2	5.7	8.4	6.2
	21.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.6	5.6	8.2	5.7	8.3	6.2
	23.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.6	5.6	8.1	5.6	8.2	6.1
	25.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.6	5.6	7.9	5.6	8.1	6.1
	27.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.6	5.6	7.8	5.5	8.0	6.1
	29.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.5	5.6	7.7	5.4	7.9	6.0
	31.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.4	5.5	7.6	5.4	7.8	6.0
	33.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.3	5.5	7.5	5.3	7.6	5.9
	35.0	4.8	4.2	5.7	4.9	6.6	5.4	7.1	5.5	7.2	5.4	7.4	5.3	7.5	5.9
	37.0	4.8	4.2	5.7	4.9	6.6	5.4	7.0	5.5	7.1	5.4	7.2	5.2	7.4	5.9
	39.0	4.8	4.2	5.7	4.9	6.6	5.4	6.9	5.4	7.0	5.3	7.1	5.1	7.3	5.8
80	10.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.6	7.1	10.8	7.4	11.4	7.4
	12.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.6	7.1	10.8	7.4	11.2	7.4
	14.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.6	7.1	10.8	7.4	11.1	7.3
	16.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.6	7.1	10.7	7.4	10.9	7.2
	18.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.6	7.1	10.6	7.3	10.8	7.2
	20.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.6	7.1	10.4	7.2	10.6	7.1
	21.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.6	7.1	10.4	7.2	10.6	7.1
	23.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.6	7.1	10.2	7.1	10.4	7.0
	25.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.6	7.1	10.1	7.0	10.3	6.9
	27.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.6	7.1	9.9	7.0	10.1	6.9
	29.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.5	7.1	9.8	6.9	10.0	6.8
	31.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.4	7.0	9.6	6.8	9.8	6.7
	33.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.3	7.0	9.5	6.7	9.7	6.7
	35.0	6.1	5.3	7.2	6.1	8.4	6.9	9.0	7.0	9.1	6.9	9.3	6.6	9.5	6.6
	37.0	6.1	5.3	7.2	6.1	8.4	6.9	8.9	6.9	9.0	6.8	9.2	6.6	9.4	6.5
	39.0	6.1	5.3	7.2	6.1	8.4	6.9	8.7	6.8	8.8	6.7	9.0	6.5	9.3	6.5
100	10.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.9	8.7	13.4	9.0	14.2	8.9
	12.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.9	8.7	13.4	9.0	14.0	8.9
	14.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.9	8.7	13.4	9.0	13.8	8.8
	16.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.9	8.7	13.3	9.0	13.6	8.7
	18.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.9	8.7	13.2	8.9	13.4	8.6
	20.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.9	8.7	13.0	8.8	13.2	8.5
	21.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.9	8.7	12.9	8.8	13.2	8.5
	23.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.9	8.7	12.7	8.7	13.0	8.4
	25.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.9	8.7	12.5	8.6	12.8	8.3
	27.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.9	8.7	12.3	8.5	12.6	8.2
	29.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.9	8.6	12.2	8.4	12.4	8.1
	31.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.7	8.6	12.0	8.3	12.2	8.0
	33.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.5	8.5	11.8	8.2	12.1	7.9
	35.0	7.6	6.4	9.0	7.3	10.5	8.3	11.2	8.5	11.3	8.4	11.6	8.1	11.9	7.8
	37.0	7.6	6.4	9.0	7.3	10.5	8.3	11.0	8.4	11.2	8.3	11.4	8.0	11.7	7.7
	39.0	7.6	6.4	9.0	7.3	10.5	8.3	10.8	8.3	11.0	8.2	11.2	7.9	11.5	7.6
125	10.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	18.4	11.0
	12.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	18.2	10.9
	14.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	18.0	10.7
	16.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	17.7	10.6
	18.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	17.5	10.4
	20.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	17.2	10.3
	21.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.8	10.7	17.1	10.2
	23.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.5	10.6	16.9	10.1
	25.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.3	10.4	16.6	10.0
	27.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	16.1	10.3	16.4	9.9
	29.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	15.8	10.1	16.2	9.8
	31.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	15.6	10.0	15.9	9.6
	33.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.9	10.3	15.3	9.9	15.7	9.5
	35.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.8	10.2	15.1	9.8	15.4	9.4
	37.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	9.9	14.5	10.1	14.9	9.7	15.2	9.3
	39.0	9.5	7.8	11.3	8.9	13.1	9.6	14.0	10.0	14.3	9.9	14.6	9.6	15.0	9.2

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6 Capacity tables

6 - 2 Heating capacity tables

FXSQ-P7

Unit size	Outdoor air temp.		Indoor air temperature: °CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
63	-19.8	-20.0	4.7	4.7	4.7	4.7	4.7	4.7
	-18.8	-19.0	4.9	4.9	4.8	4.8	4.8	4.8
	-16.7	-17.0	5.1	5.1	5.1	5.1	5.1	5.1
	-14.7	-15.0	5.4	5.4	5.4	5.4	5.4	5.4
	-12.6	-13.0	5.7	5.7	5.7	5.7	5.7	5.7
	-10.5	-11.0	6.0	6.0	6.0	6.0	6.0	5.9
	-9.5	-10.0	6.1	6.1	6.1	6.1	6.1	6.1
	-8.5	-9.1	6.3	6.3	6.2	6.2	6.2	6.2
	-7.0	-7.6	6.5	6.5	6.4	6.4	6.4	6.4
	-5.0	-5.6	6.8	6.7	6.7	6.7	6.7	6.7
	-3.0	-3.7	7.0	7.0	7.0	7.0	7.0	7.0
	0.0	-0.7	7.5	7.4	7.4	7.4	7.4	7.0
	3.0	2.2	7.9	7.8	7.8	7.7	7.5	7.0
	5.0	4.1	8.1	8.1	8.0	7.7	7.5	7.0
	7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0
	9.0	7.9	8.7	8.5	8.0	7.7	7.5	7.0
	11.0	9.8	8.9	8.5	8.0	7.7	7.5	7.0
	13.0	11.8	9.0	8.5	8.0	7.7	7.5	7.0
	15.0	13.7	9.0	8.5	8.0	7.7	7.5	7.0
80	-19.8	-20.0	5.9	5.9	5.9	5.9	5.9	5.8
	-18.8	-19.0	6.1	6.1	6.0	6.0	6.0	6.0
	-16.7	-17.0	6.4	6.4	6.4	6.4	6.4	6.4
	-14.7	-15.0	6.8	6.8	6.8	6.7	6.7	6.7
	-12.6	-13.0	7.1	7.1	7.1	7.1	7.1	7.1
	-10.5	-11.0	7.5	7.5	7.5	7.5	7.4	7.4
	-9.5	-10.0	7.7	7.7	7.6	7.6	7.6	7.6
	-8.5	-9.1	7.8	7.8	7.8	7.8	7.8	7.8
	-7.0	-7.6	8.1	8.1	8.1	8.1	8.0	8.0
	-5.0	-5.6	8.5	8.4	8.4	8.4	8.4	8.4
	-3.0	-3.7	8.8	8.8	8.8	8.7	8.7	8.7
	0.0	-0.7	9.3	9.3	9.3	9.3	9.3	8.7
	3.0	2.2	9.8	9.8	9.8	9.7	9.4	8.7
	5.0	4.1	10.2	10.1	10.0	9.7	9.4	8.7
	7.0	6.0	10.5	10.5	10.0	9.7	9.4	8.7
	9.0	7.9	10.8	10.6	10.0	9.7	9.4	8.7
	11.0	9.8	11.2	10.6	10.0	9.7	9.4	8.7
	13.0	11.8	11.3	10.6	10.0	9.7	9.4	8.7
	15.0	13.7	11.3	10.6	10.0	9.7	9.4	8.7
100	-19.8	-20.0	7.4	7.4	7.3	7.3	7.3	7.3
	-18.8	-19.0	7.6	7.6	7.6	7.5	7.5	7.5
	-16.7	-17.0	8.0	8.0	8.0	8.0	8.0	8.0
	-14.7	-15.0	8.5	8.5	8.4	8.4	8.4	8.4
	-12.6	-13.0	8.9	8.9	8.9	8.9	8.9	8.8
	-10.5	-11.0	9.4	9.3	9.3	9.3	9.3	9.3
	-9.5	-10.0	9.6	9.6	9.5	9.5	9.5	9.5
	-8.5	-9.1	9.8	9.8	9.7	9.7	9.7	9.7
	-7.0	-7.6	10.1	10.1	10.1	10.1	10.1	10.0
	-5.0	-5.6	10.6	10.5	10.5	10.5	10.5	10.5
	-3.0	-3.7	11.0	11.0	10.9	10.9	10.9	10.9
	0.0	-0.7	11.6	11.6	11.6	11.6	11.6	10.9
	3.0	2.2	12.3	12.3	12.2	12.1	11.7	10.9
	5.0	4.1	12.7	12.7	12.5	12.1	11.7	10.9
	7.0	6.0	13.1	13.1	12.5	12.1	11.7	10.9
	9.0	7.9	13.5	13.3	12.5	12.1	11.7	10.9
	11.0	9.8	14.0	13.3	12.5	12.1	11.7	10.9
	13.0	11.8	14.1	13.3	12.5	12.1	11.7	10.9
	15.0	13.7	14.1	13.3	12.5	12.1	11.7	10.9
125	-19.8	-20.0	9.4	9.4	9.4	9.4	9.4	9.3
	-18.8	-19.0	9.7	9.7	9.7	9.7	9.6	9.6
	-16.7	-17.0	10.3	10.3	10.2	10.2	10.2	10.2
	-14.7	-15.0	10.9	10.8	10.8	10.8	10.8	10.8
	-12.6	-13.0	11.4	11.4	11.4	11.4	11.3	11.3
	-10.5	-11.0	12.0	12.0	11.9	11.9	11.9	11.9
	-9.5	-10.0	12.3	12.2	12.2	12.2	12.2	12.2
	-8.5	-9.1	12.5	12.5	12.5	12.5	12.4	12.4
	-7.0	-7.6	13.0	12.9	12.9	12.9	12.9	12.8
	-5.0	-5.6	13.5	13.5	13.5	13.4	13.4	13.4
	-3.0	-3.7	14.1	14.0	14.0	14.0	14.0	13.9
	0.0	-0.7	14.9	14.9	14.8	14.8	14.8	13.9
	3.0	2.2	15.7	15.7	15.7	15.5	15.0	13.9
	5.0	4.1	16.3	16.2	16.0	15.5	15.0	13.9
	7.0	6.0	16.8	16.8	16.0	15.5	15.0	13.9
	9.0	7.9	17.3	17.0	16.0	15.5	15.0	13.9
	11.0	9.8	17.9	17.0	16.0	15.5	15.0	13.9
	13.0	11.8	18.1	17.0	16.0	15.5	15.0	13.9
	15.0	13.7	18.1	17.0	16.0	15.5	15.0	13.9

3TW25512-2A

6 Capacity tables

6 - 2 Heating capacity tables

FXSQ-P7

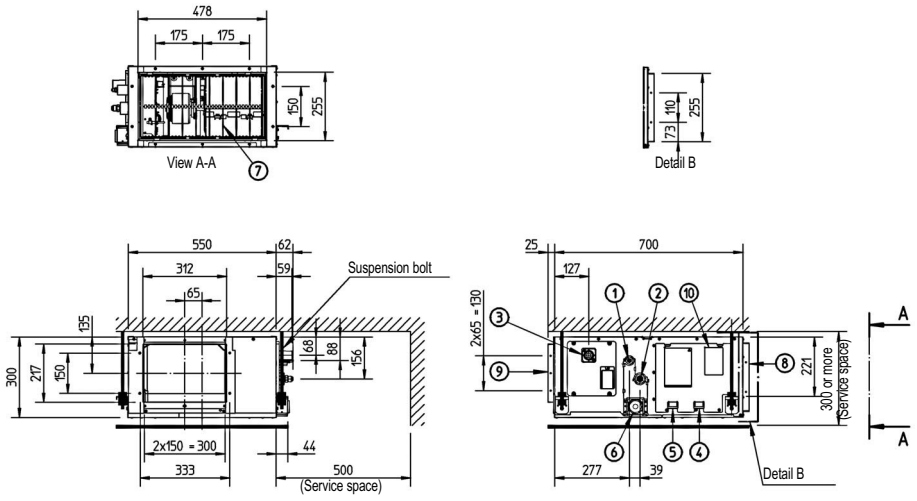
Unit Size	Outdoor air temp.		Indoor air temperature: °CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
20	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5	1.5
	-18.8	-19.0	1.5	1.5	1.5	1.5	1.5	1.5
	-16.7	-17.0	1.6	1.6	1.6	1.6	1.6	1.6
	-14.7	-15.0	1.7	1.7	1.7	1.7	1.7	1.7
	-12.6	-13.0	1.8	1.8	1.8	1.8	1.8	1.8
	-10.5	-11.0	1.9	1.9	1.9	1.9	1.9	1.9
	-9.5	-10.0	1.9	1.9	1.9	1.9	1.9	1.9
	-8.5	-9.1	2.0	2.0	1.9	1.9	1.9	1.9
	-7.0	-7.6	2.0	2.0	2.0	2.0	2.0	2.0
	-5.0	-5.6	2.1	2.1	2.1	2.1	2.1	2.1
	-3.0	-3.7	2.2	2.2	2.2	2.2	2.2	2.2
	0.0	-0.7	2.3	2.3	2.3	2.3	2.3	2.2
	3.0	2.2	2.5	2.5	2.4	2.4	2.3	2.2
	5.0	4.1	2.5	2.5	2.5	2.4	2.3	2.2
	7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
	9.0	7.9	2.7	2.7	2.5	2.4	2.3	2.2
	11.0	9.8	2.8	2.7	2.5	2.4	2.3	2.2
	13.0	11.8	2.8	2.7	2.5	2.4	2.3	2.2
	15.0	13.7	2.8	2.7	2.5	2.4	2.3	2.2
25	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9	1.9
	-18.8	-19.0	1.9	1.9	1.9	1.9	1.9	1.9
	-16.7	-17.0	2.1	2.1	2.0	2.0	2.0	2.0
	-14.7	-15.0	2.2	2.2	2.2	2.2	2.2	2.2
	-12.6	-13.0	2.3	2.3	2.3	2.3	2.3	2.3
	-10.5	-11.0	2.4	2.4	2.4	2.4	2.4	2.4
	-9.5	-10.0	2.5	2.5	2.4	2.4	2.4	2.4
	-8.5	-9.1	2.5	2.5	2.5	2.5	2.5	2.5
	-7.0	-7.6	2.6	2.6	2.6	2.6	2.6	2.6
	-5.0	-5.6	2.7	2.7	2.7	2.7	2.7	2.7
	-3.0	-3.7	2.8	2.8	2.8	2.8	2.8	2.8
	0.0	-0.7	3.0	3.0	3.0	3.0	3.0	2.8
	3.0	2.2	3.1	3.1	3.1	3.1	3.0	2.8
	5.0	4.1	3.3	3.2	3.2	3.1	3.0	2.8
	7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
	9.0	7.9	3.5	3.4	3.2	3.1	3.0	2.8
	11.0	9.8	3.6	3.4	3.2	3.1	3.0	2.8
	13.0	11.8	3.6	3.4	3.2	3.1	3.0	2.8
	15.0	13.7	3.6	3.4	3.2	3.1	3.0	2.8
32	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3	2.3
	-18.8	-19.0	2.4	2.4	2.4	2.4	2.4	2.4
	-16.7	-17.0	2.6	2.6	2.6	2.6	2.6	2.5
	-14.7	-15.0	2.7	2.7	2.7	2.7	2.7	2.7
	-12.6	-13.0	2.9	2.9	2.8	2.8	2.8	2.8
	-10.5	-11.0	3.0	3.0	3.0	3.0	3.0	3.0
	-9.5	-10.0	3.1	3.1	3.1	3.1	3.0	3.0
	-8.5	-9.1	3.1	3.1	3.1	3.1	3.1	3.1
	-7.0	-7.6	3.2	3.2	3.2	3.2	3.2	3.2
	-5.0	-5.6	3.4	3.4	3.4	3.4	3.4	3.4
	-3.0	-3.7	3.5	3.5	3.5	3.5	3.5	3.5
	0.0	-0.7	3.7	3.7	3.7	3.7	3.7	3.5
	3.0	2.2	3.9	3.9	3.9	3.9	3.7	3.5
	5.0	4.1	4.1	4.1	4.0	3.9	3.7	3.5
	7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
	9.0	7.9	4.3	4.3	4.0	3.9	3.7	3.5
	11.0	9.8	4.5	4.3	4.0	3.9	3.7	3.5
	13.0	11.8	4.5	4.3	4.0	3.9	3.7	3.5
	15.0	13.7	4.5	4.3	4.0	3.9	3.7	3.5
40	-19.8	-20.0	3.0	2.9	2.9	2.9	2.9	2.9
	-18.8	-19.0	3.0	3.0	3.0	3.0	3.0	3.0
	-16.7	-17.0	3.2	3.2	3.2	3.2	3.2	3.2
	-14.7	-15.0	3.4	3.4	3.4	3.4	3.4	3.4
	-12.6	-13.0	3.6	3.6	3.6	3.5	3.5	3.5
	-10.5	-11.0	3.7	3.7	3.7	3.7	3.7	3.7
	-9.5	-10.0	3.8	3.8	3.8	3.8	3.8	3.8
	-8.5	-9.1	3.9	3.9	3.9	3.9	3.9	3.9
	-7.0	-7.6	4.0	4.0	4.0	4.0	4.0	4.0
	-5.0	-5.6	4.2	4.2	4.2	4.2	4.2	4.2
	-3.0	-3.7	4.4	4.4	4.4	4.4	4.4	4.4
	0.0	-0.7	4.7	4.6	4.6	4.6	4.6	4.4
	3.0	2.2	4.9	4.9	4.9	4.8	4.7	4.4
	5.0	4.1	5.1	5.1	5.0	4.8	4.7	4.4
	7.0	6.0	5.3	5.2	5.0	4.8	4.7	4.4
	9.0	7.9	5.4	5.3	5.0	4.8	4.7	4.4
	11.0	9.8	5.6	5.3	5.0	4.8	4.7	4.4
	13.0	11.8	5.6	5.3	5.0	4.8	4.7	4.4
	15.0	13.7	5.6	5.3	5.0	4.8	4.7	4.4
50	-19.8	-20.0	3.7	3.7	3.7	3.7	3.7	3.7
	-18.8	-19.0	3.8	3.8	3.8	3.8	3.8	3.8
	-16.7	-17.0	4.1	4.0	4.0	4.0	4.0	4.0
	-14.7	-15.0	4.3	4.3	4.3	4.3	4.2	4.2
	-12.6	-13.0	4.5	4.5	4.5	4.5	4.5	4.5
	-10.5	-11.0	4.7	4.7	4.7	4.7	4.7	4.7
	-9.5	-10.0	4.8	4.8	4.8	4.8	4.8	4.8
	-8.5	-9.1	4.9	4.9	4.9	4.9	4.9	4.9
	-7.0	-7.6	5.1	5.1	5.1	5.1	5.1	5.1
	-5.0	-5.6	5.3	5.3	5.3	5.3	5.3	5.3
	-3.0	-3.7	5.5	5.5	5.5	5.5	5.5	5.5
	0.0	-0.7	5.9	5.9	5.8	5.8	5.8	5.5
	3.0	2.2	6.2	6.2	6.2	6.1	5.9	5.5
	5.0	4.1	6.4	6.4	6.3	6.1	5.9	5.5
	7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
	9.0	7.9	6.8	6.7	6.3	6.1	5.9	5.5
	11.0	9.8	7.0	6.7	6.3	6.1	5.9	5.5
	13.0	11.8	7.1	6.7	6.3	6.1	5.9	5.5
	15.0	13.7	7.1	6.7	6.3	6.1	5.9	5.5

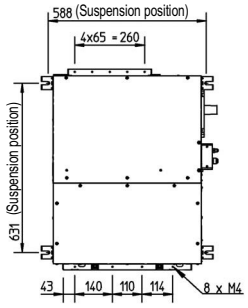
3TW25512-2A

7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

FXSQ20-32P





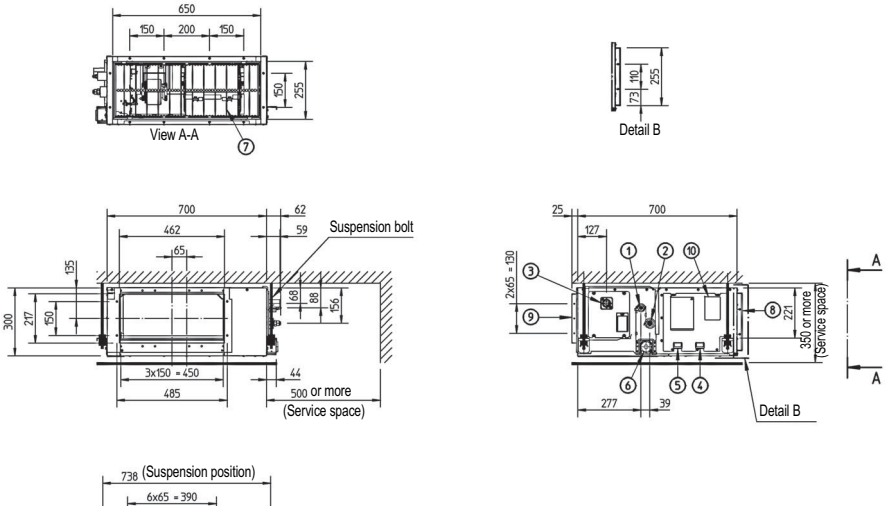
Nr	Name	Description
1	Liquid pipe connection	ø 6.35 flare (connection)
2	Gas pipe connection	ø 12.70 (flare connection)
3	Drain pipe connection	VP20 (O.D. ø 32 /I.D. ø 25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (OD ø 32 /I.D. ø 25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

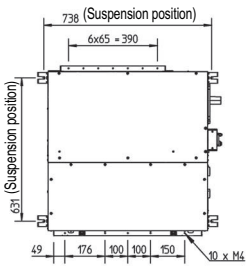
NOTE

1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
2 The required ceiling depth varies according to the configuration of the specific system.
3 For maintenance of the air filter, it is necessary to provide a service access panel.
Refer to the 'filter installation method' drawing.

3TW31184-1

FXSQ40-50P





Nr	Name	Description
1	Liquid pipe connection	ø 6.35 flare (connection)
2	Gas pipe connection	ø 12.70 (flare connection)
3	Drain pipe connection	VP25 (O.D. ø 32 /I.D. ø 25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (OD ø 32 /I.D. ø 25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTE

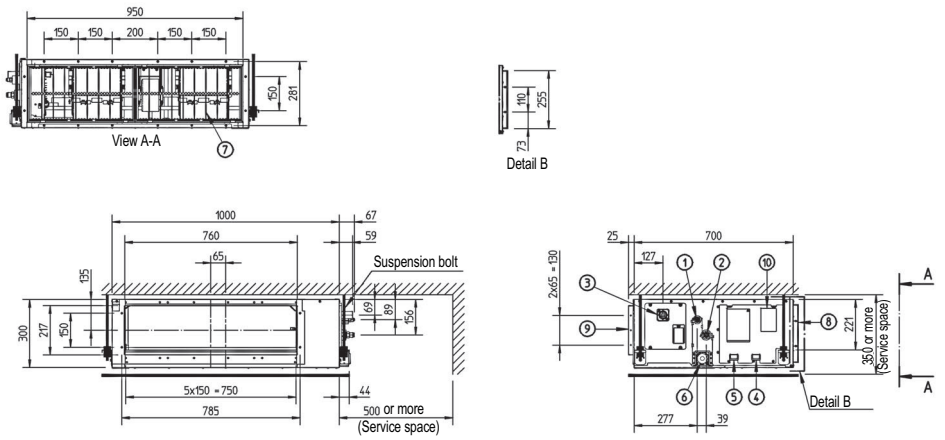
1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
2 The required ceiling depth varies according to the configuration of the specific system.
3 For maintenance of the air filter, it is necessary to provide a service access panel.
Refer to the 'filter installation method' drawing.

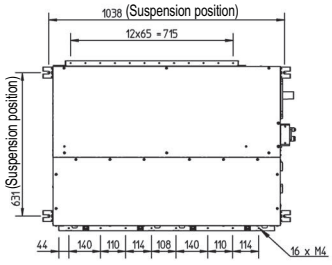
3TW31214-1

7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

FXSQ63-80P





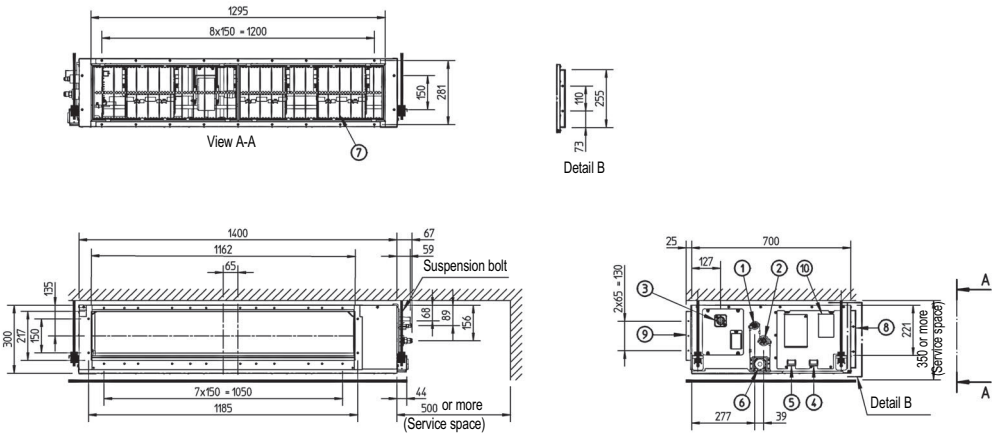
Nr	Name	Description
1	Liquid pipe connection	ø 9.52 flare (connection)
2	Gas pipe connection	ø 15.90 (flare connection)
3	Drain pipe connection	VP25 (O.D. ø 32 /I.D. ø 25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (OD ø 32 /I.D. ø 25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

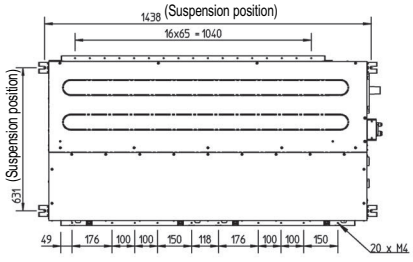
NOTE

1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
2 The required ceiling depth varies according to the configuration of the specific system.
3 For maintenance of the air filter, it is necessary to provide a service access panel.
Refer to the 'filter installation method' drawing.

3TW31234-1

FXSQ100-125P





Nr	Name	Description
1	Liquid pipe connection	ø 9.52 flare (connection)
2	Gas pipe connection	ø 15.90 (flare connection)
3	Drain pipe connection	VP25 (O.D. ø 32 /I.D. ø 25)
4	Remote control wiring connection	
5	Power supply connection	
6	Drain hole	VP25 (OD ø 32 /I.D. ø 25)
7	Air filter	
8	Air suction side	
9	Air discharge side	
10	Nameplate	

NOTE

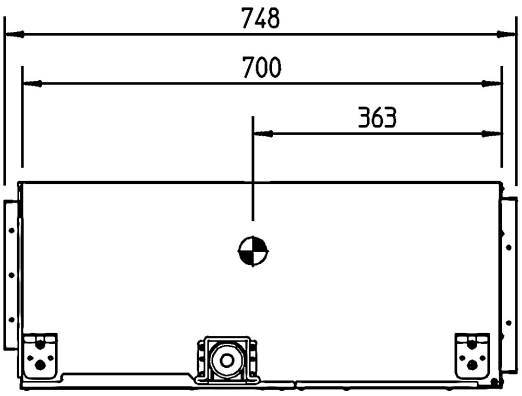
1 Refer to 'outlook drawing for installing optional accessories' when installing optional accessories.
2 The required ceiling depth varies according to the configuration of the specific system.
3 For maintenance of the air filter, it is necessary to provide a service access panel.
Refer to the 'filter installation method' drawing.

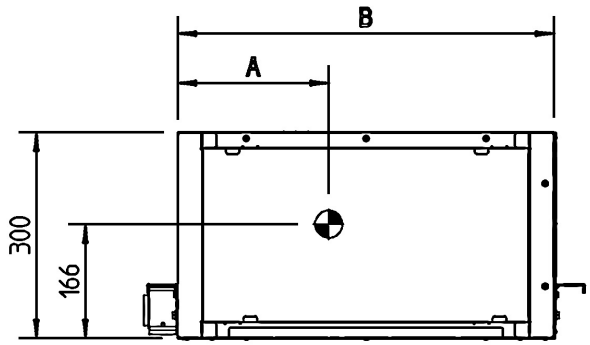
3TW31254-1

7 Dimensional drawing & centre of gravity

7 - 2 Centre of gravity

FXSQ20-125P



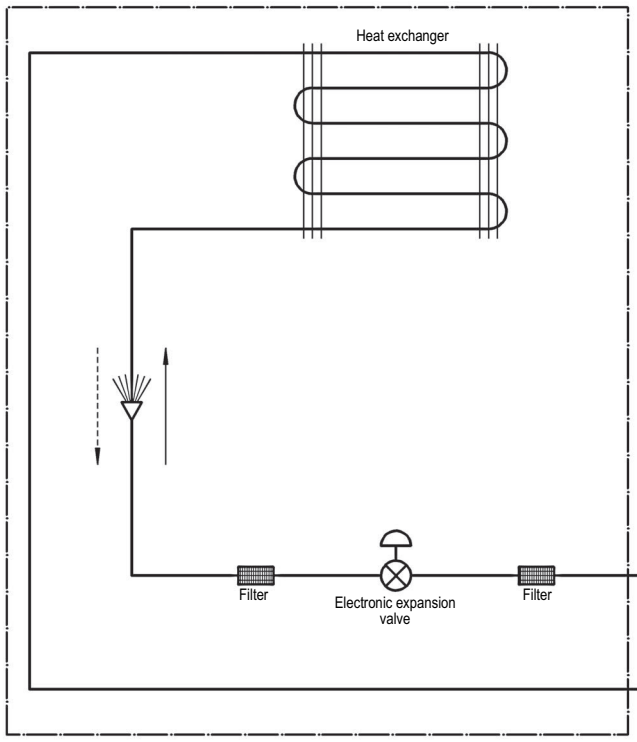


MODEL	A	B
FXSQ20~32	220	550
FXSQ40,50	283	700
FXSQ63,80	441	1000
FXSQ100,125	619	1400

4TW31189-1A

8 Piping diagram

FXSQ20-125P



Refrigerant flow
Cooling
Heating

Refrigerant pipe connection port diameters

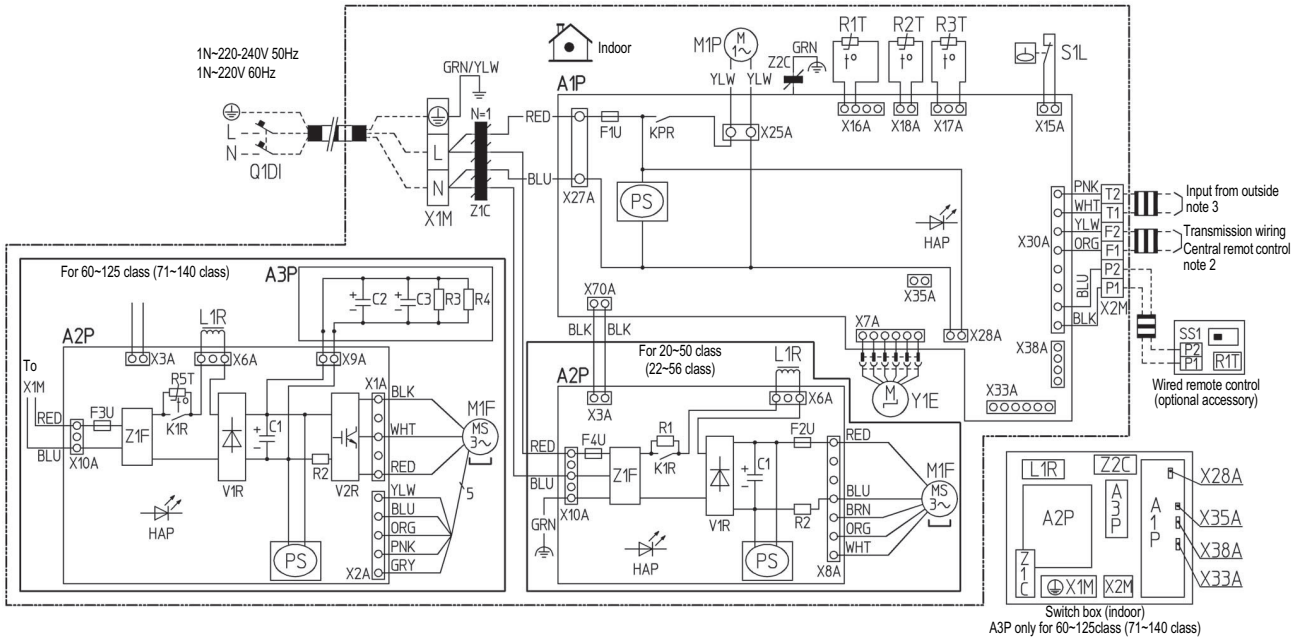
Model	Gas	Liquid
FXSQ20,25,32,40,50	Ø12.70	Ø6.35
FXSQ63,80,100,125	Ø15.90	Ø9.52

3TW31185-1

9 Wiring diagram

9 - 1 Wiring diagram

FXSQ-P



Indoor unit		PS	Switching power supply	Y1E	Electronical expansion valve
A1P	Printed circuit board	Q1DI	Earth leak detector	Z1C, Z2C	Noise filter
A2P	Printed circuit board (fan)	R1	Resistor (current limiting)	Z1F	Noise filter
A3P	Printed circuit board (capacitor)	R2	Current sensing device		
C1, C2, C3	Capacitor	R3, R4	Resistor (electric discharge)		
F1U	Fuse (T, 3.15A, 250V)	R1T	Thermistor (suction air)	Connector optional accessory	
F2U	Fuse (T, 5A, 250V)	R2T	Thermistor (Liquid)	X28A	Connector (power supply for wiring)
F3U	Fuse (T, 6.3A, 250V)	R3T	Thermistor (gas)	X35A	Connector (adapter)
F4U	Fuse (T, 6.3A, 250V)	R5T	Thermistor NTC (current limiting)	X38A	Connector (for wiring)
HAP	Light emitting diode (service monitor green)	S1L	Float switch		
KPR, K1R	Magnetic relay	V1R	Diode bridge		
L1R	Reactor	V2R	Power module	Wired remote control	
M1F	Motor (fan)	X1M	Terminal strip (power supply)	R1T	Thermistor (air)
M1P	Motor (drain pump)	X2M	Terminal strip (control)	SS1	Selector switch (main/sub)

: Field wiring
: Connector
: Wire clamp
: Protective earth screw

L : Live
N : Neutral

Colors:
RED: Red
BLK: Black
WHT: White
YLW: Yellow
ORG: Orange
BRN: Brown
GRY: Gray
BLU: Blue
PNK: Pink
GRN: Green

2TW31186-1

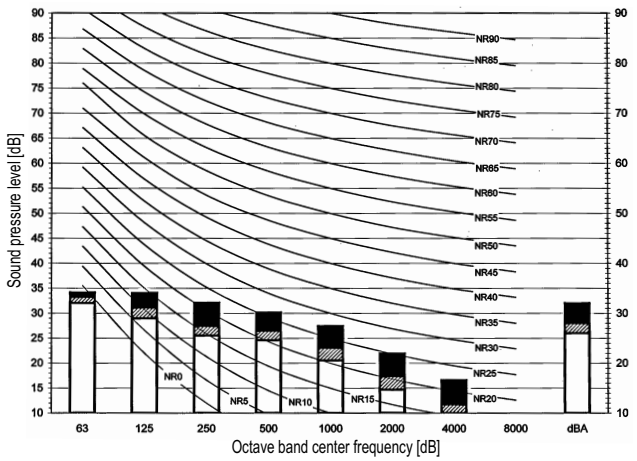
NOTES

1 Use copper conductors only.
2 When using the central remote control, see manual for connection to the unit.
3 When connecting the input wires from outside, forced off or on/off operation can be selected by the remote control. See installation manual for more details.

10 Sound data

10 - 1 Sound pressure spectrum

FXSQ20-25P

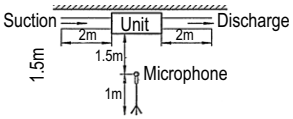


High-tap
Medium-tap
Low-tap

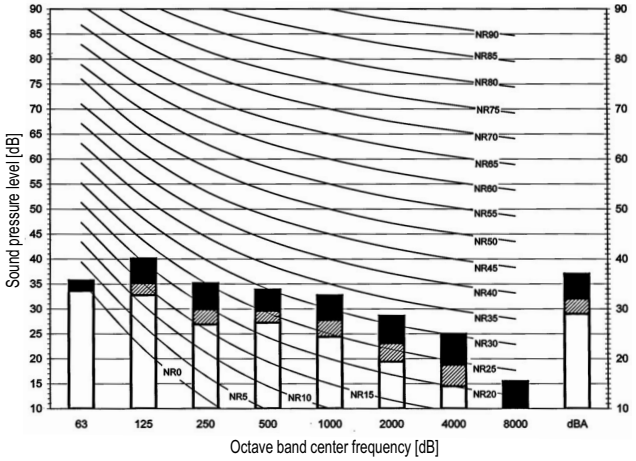
3TW31187-2

Notes

1 Data is valid at free field condition
2 Data is valid at nominal operation condition
3 dBA = A-weighted sound power level. (A-scale according to IEC)
4 Reference acoustic pressures 0dB = 20µPa
5 Location of microphine



FXSQ32P

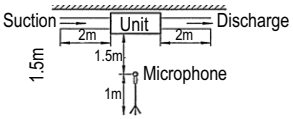


High-tap
Medium-tap
Low-tap

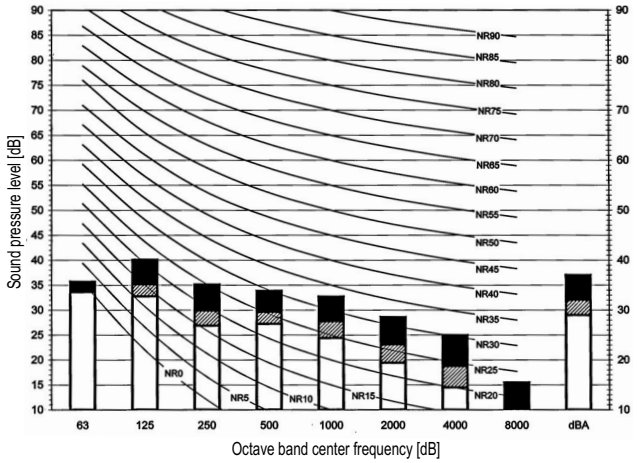
3TW31207-2

Notes

1 Data is valid at free field condition
2 Data is valid at nominal operation condition
3 dBA = A-weighted sound power level. (A-scale according to IEC)
4 Reference acoustic pressures 0dB = 20µPa
5 Location of microphine



FXSQ40-50P

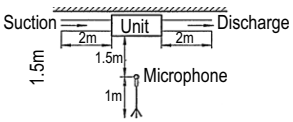


High-tap
Medium-tap
Low-tap

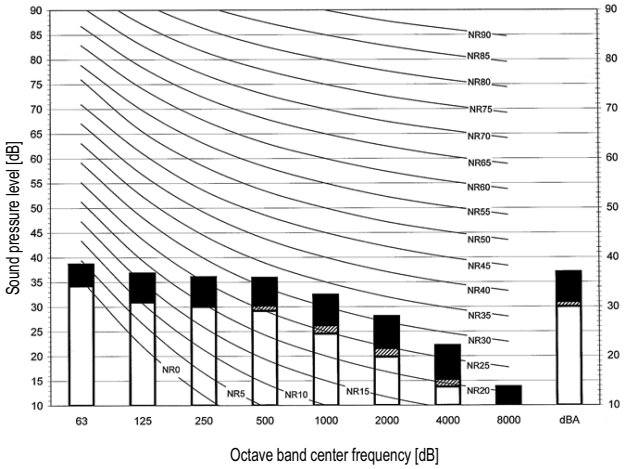
3TW31217-2

Notes

1 Data is valid at free field condition
2 Data is valid at nominal operation condition
3 dBA = A-weighted sound power level. (A-scale according to IEC)
4 Reference acoustic pressures 0dB = 20µPa
5 Location of microphine



FXSQ63P

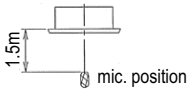


High-tap
Medium-tap
Low-tap

3TW31237-2

Notes

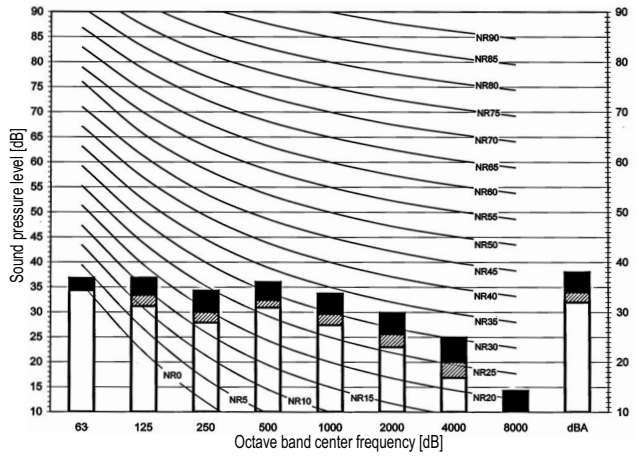
1 Data is valid at free field condition
2 Data is valid at nominal operation condition
3 dBA = A-weighted sound power level. (A-scale according to IEC)
4 Reference acoustic pressures 0dB = 20µPa
5 Location of microphine



10 Sound data

10 - 1 Sound pressure spectrum

FXSQ80P

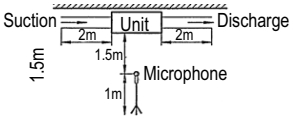


High-tap
Medium-tap
Low-tap

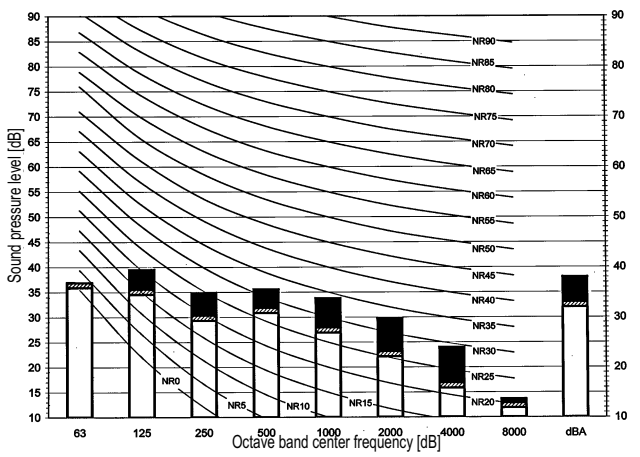
3TW31247-2

Notes

1 Data is valid at free field condition
2 Data is valid at nominal operation condition
3 dBA = A-weighted sound power level. (A-scale according to IEC)
4 Reference acoustic pressures 0dB = 20µPa
5 Location of microphine



FXSQ100P

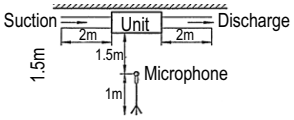


High-tap
Medium-tap
Low-tap

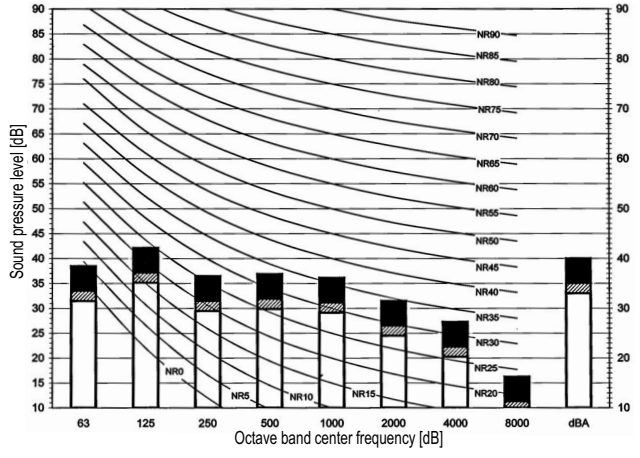
3TW31257-2

Notes

1 Data is valid at free field condition
2 Data is valid at nominal operation condition
3 dBA = A-weighted sound power level. (A-scale according to IEC)
4 Reference acoustic pressures 0dB = 20µPa
5 Location of microphine



FXSQ125P

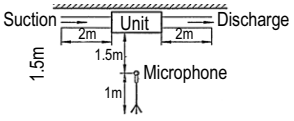


High-tap
Medium-tap
Low-tap

3TW31267-2

Notes

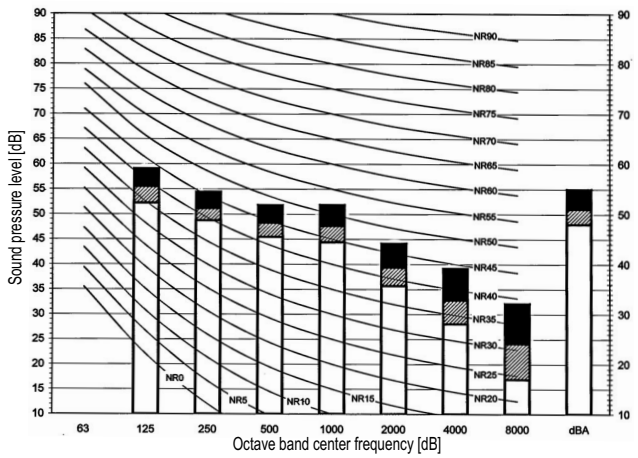
1 Data is valid at free field condition
2 Data is valid at nominal operation condition
3 dBA = A-weighted sound power level. (A-scale according to IEC)
4 Reference acoustic pressures 0dB = 20µPa
5 Location of microphine



10 Sound data

10 - 2 Sound power spectrum

FXSQ20-25P



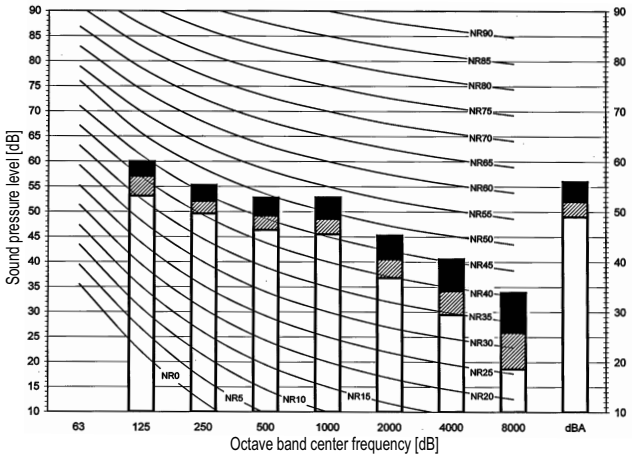
High-tap
Medium-tap
Low-tap

3TW31187-1

Notes

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

FXSQ32P



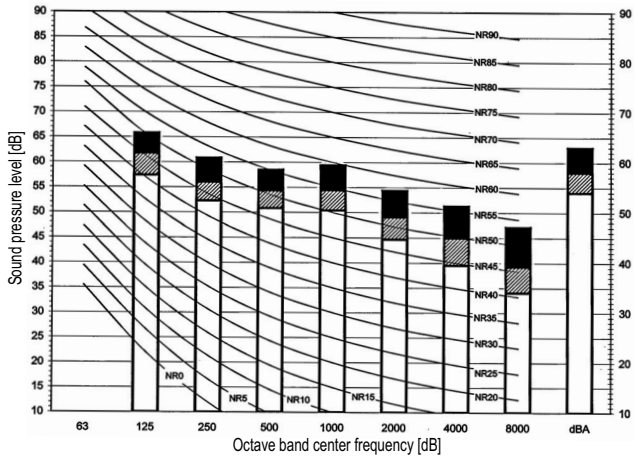
High-tap
Medium-tap
Low-tap

3TW31207-1

Notes

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

FXSQ40-50P



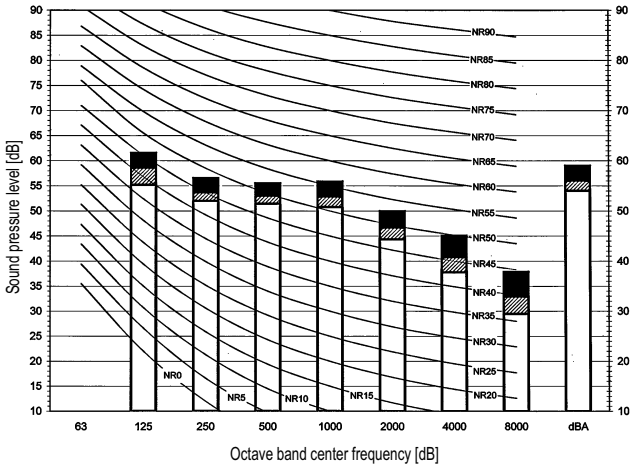
High-tap
Medium-tap
Low-tap

3TW31217-1

Notes

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

FXSQ63P



High-tap
Medium-tap
Low-tap

3TW31237-1

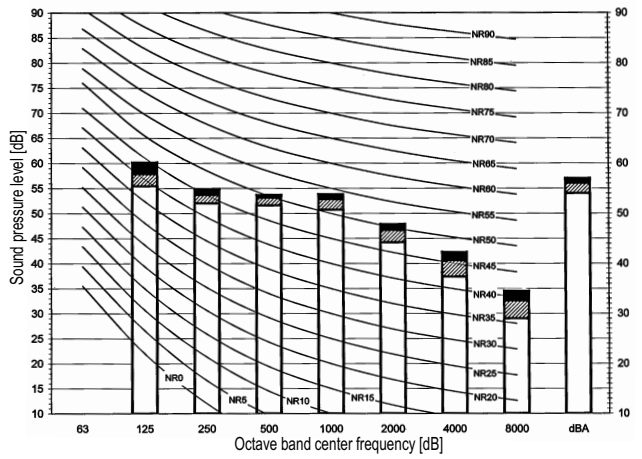
Notes

1 Data is valid at free field condition
2 Data is valid at nominal operation condition
3 dBA = A-weighted sound power level. (A-scale according to IEC)
4 Reference acoustic pressures 0dB = 20μPa
5 Location of microphine

10 Sound data

10 - 2 Sound power spectrum

FXSQ80P



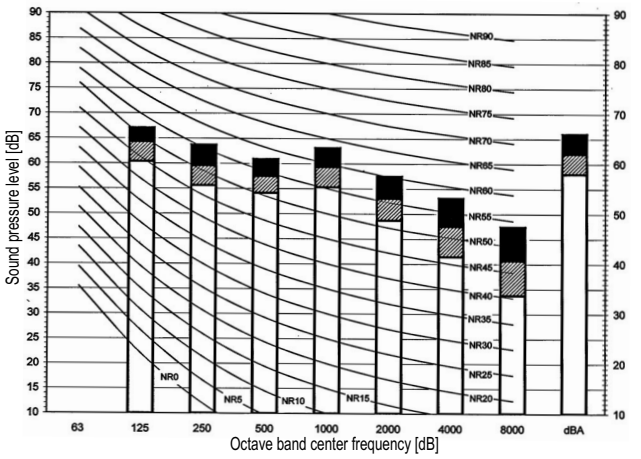
High-tap
Medium-tap
Low-tap

3TW31247-1

Notes

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

FXSQ100P



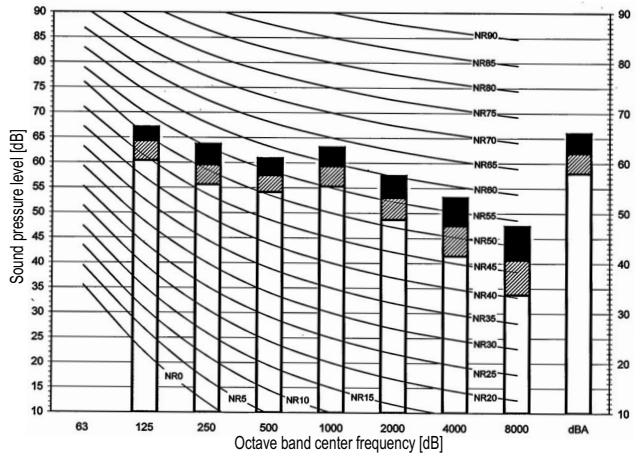
High-tap
Medium-tap
Low-tap

3TW31257-1

Notes

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

FXSQ125P



High-tap
Medium-tap
Low-tap

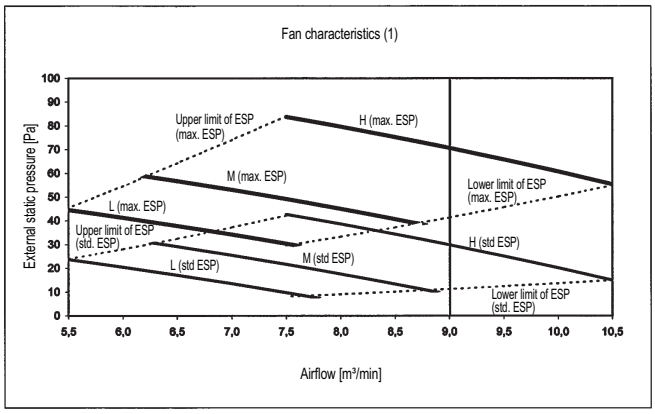
3TW31267-1

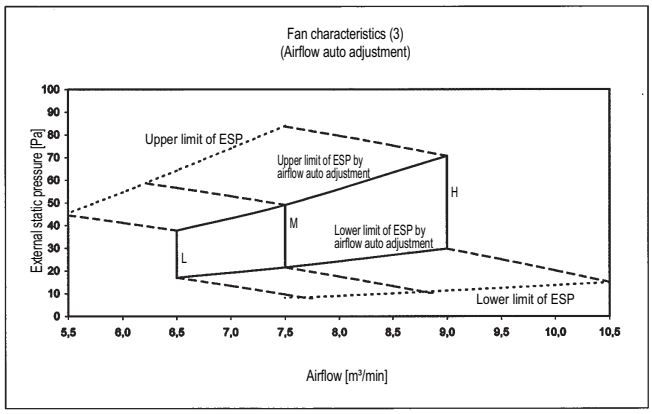
Notes

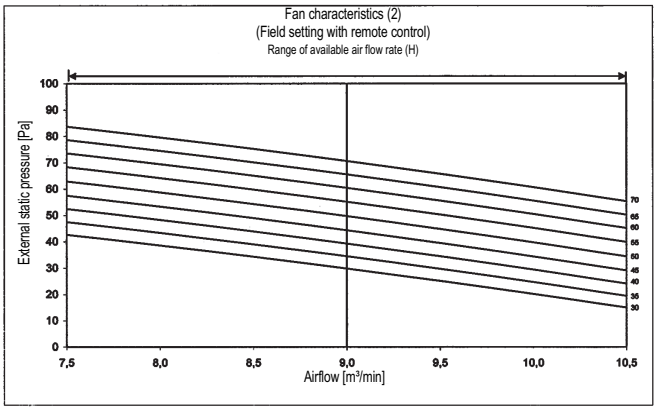
1 dBA = A-weighted sound power level. (A-scale according to IEC)
2 Reference acoustic intensity 0dB = 10E-6μW/m^2
3 Measured according to ISO 3744

11 Fan characteristics

FXSQ20-25P





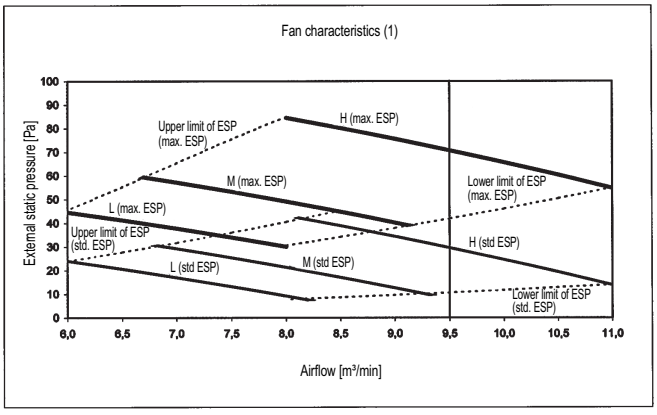


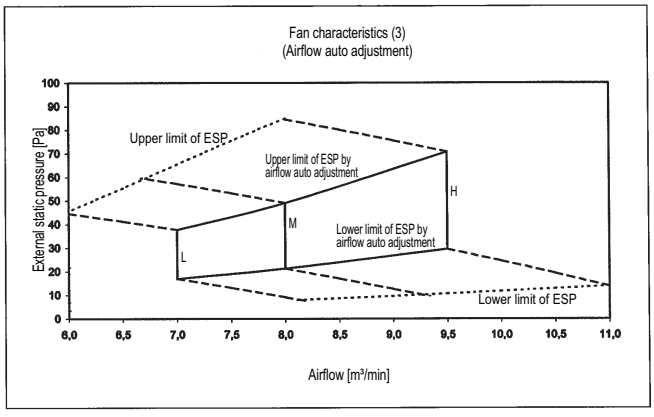
NOTES

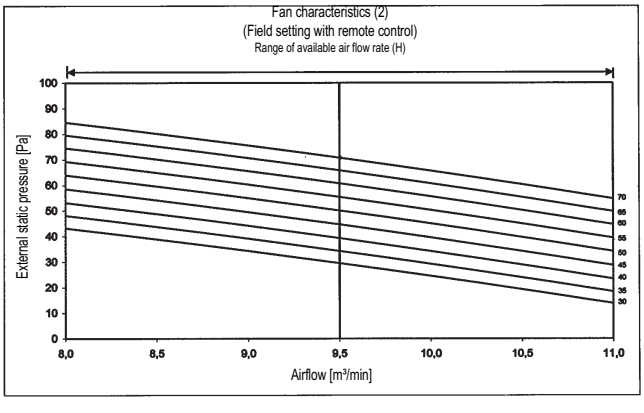
1 Fan characteristics as shown ar in “fan only” mode.
2 ESP: External static pressure

3TW31188-1

FXSQ32P







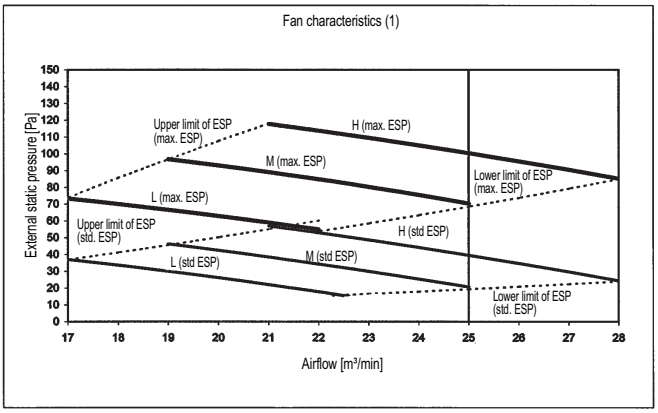
NOTES

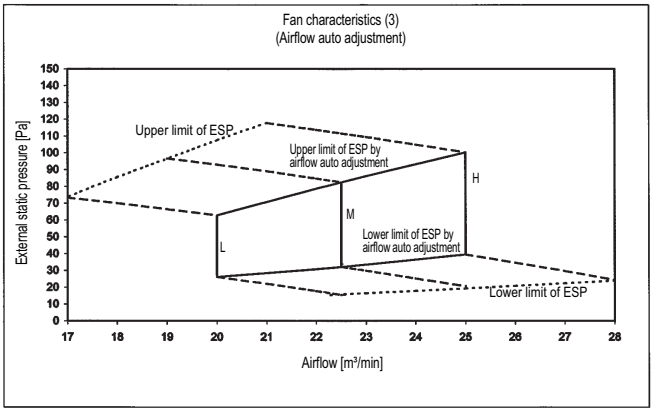
1 Fan characteristics as shown ar in “fan only” mode.
2 ESP: External static pressure

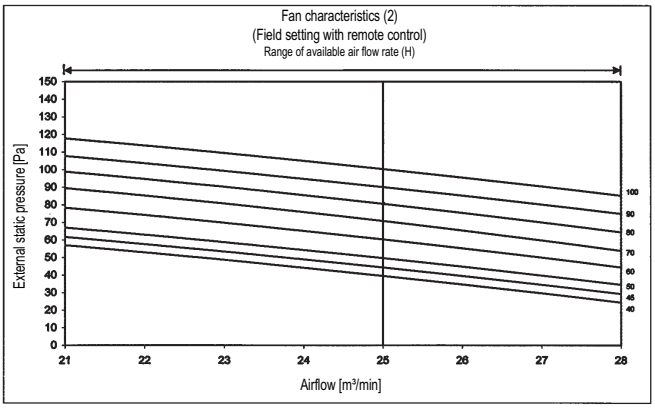
3TW31208-1

11 Fan characteristics

FXSQ80P7





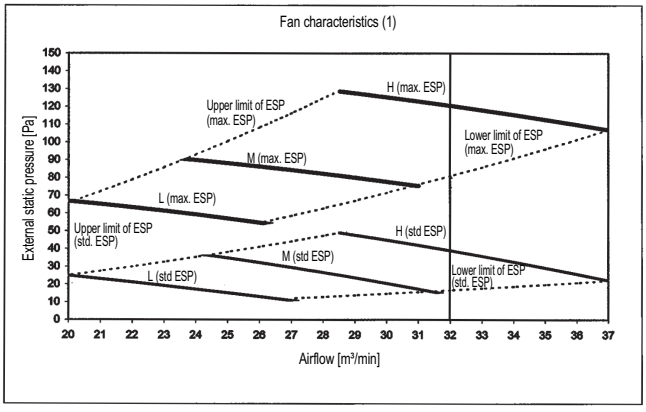


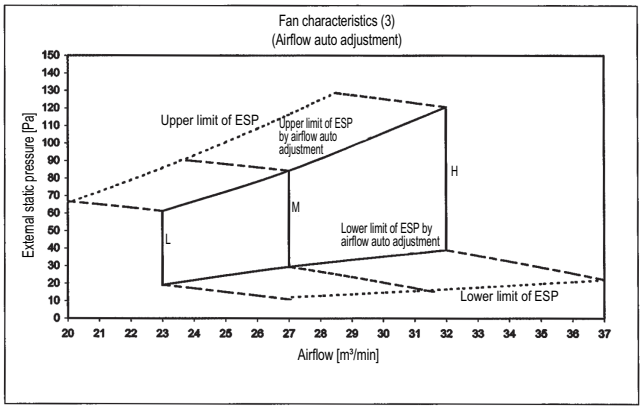
NOTES

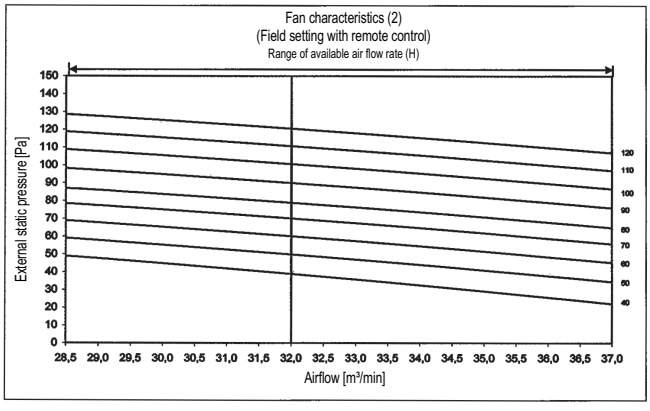
1 Fan characteristics as shown ar in “fan only” mode.
2 ESP: External static pressure

3TW31248-1

FXSQ100P







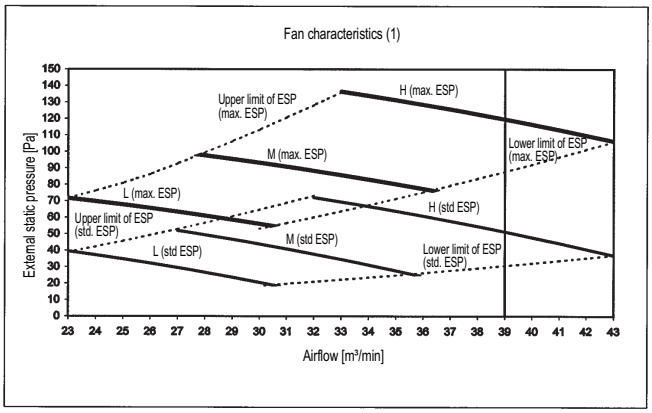
NOTES

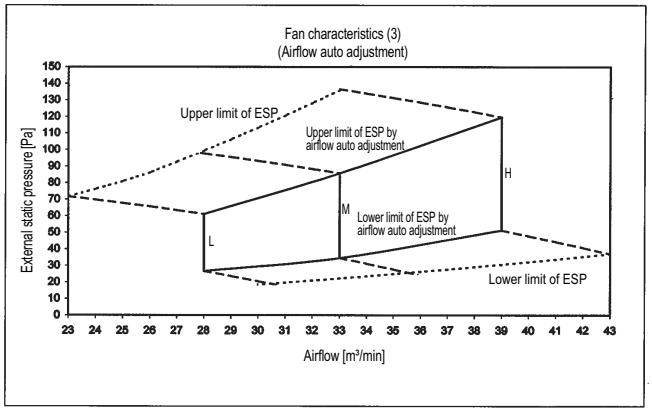
1 Fan characteristics as shown ar in “fan only” mode.
2 ESP: External static pressure

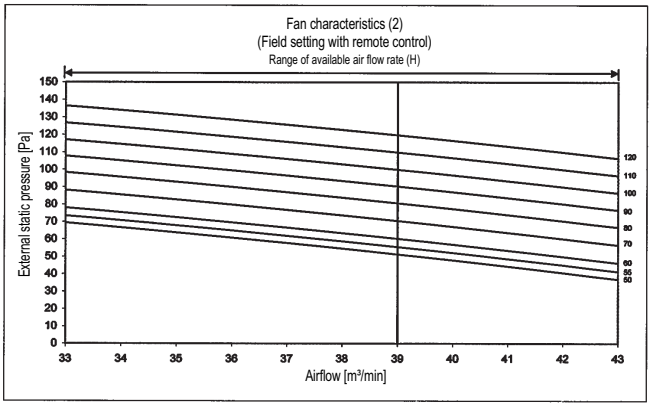
3TW31258-1

11 Fan characteristics

FXSQ125P





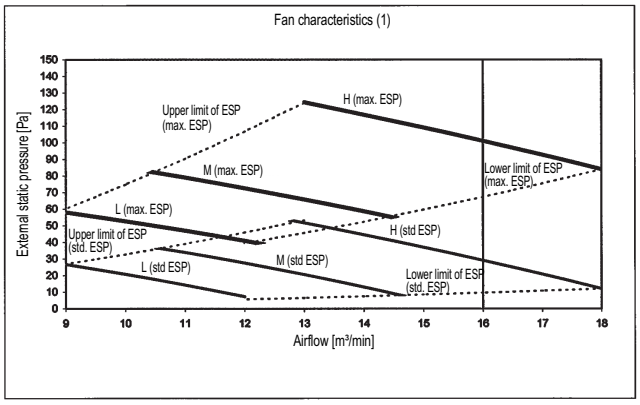


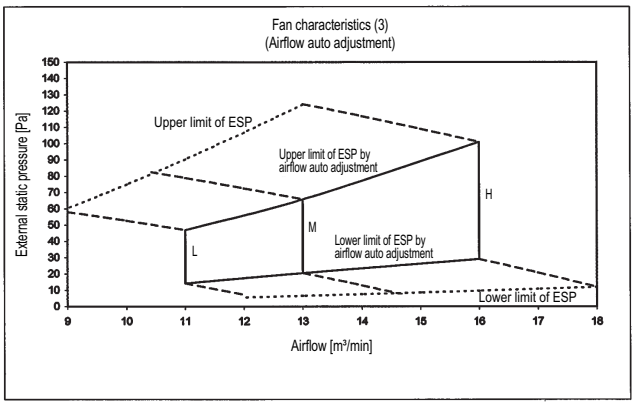
NOTES

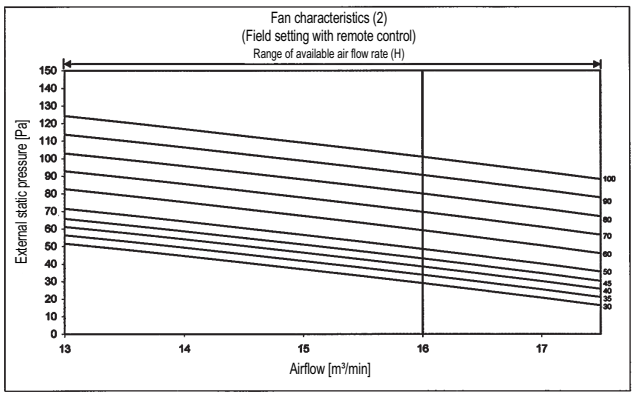
1 Fan characteristics as shown ar in “fan only” mode.
2 ESP: External static pressure

3TW31268-1

FXSQ40-50







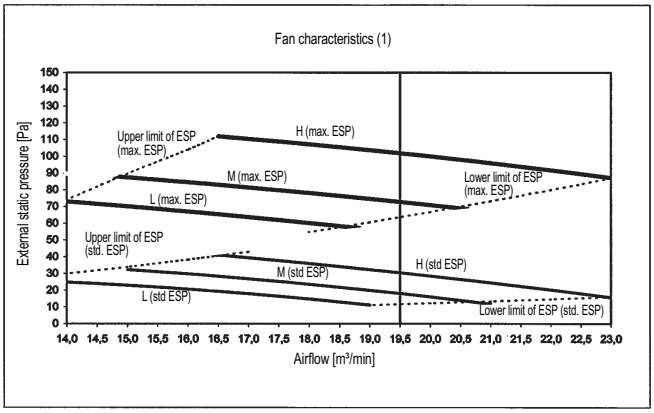
NOTES

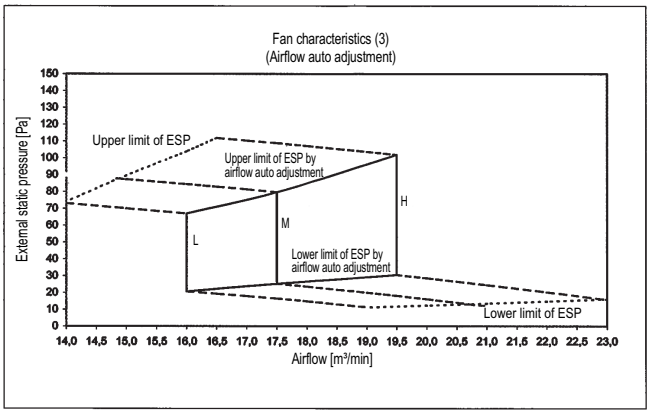
1 Fan characteristics as shown ar in “fan only” mode.
2 ESP: External static pressure

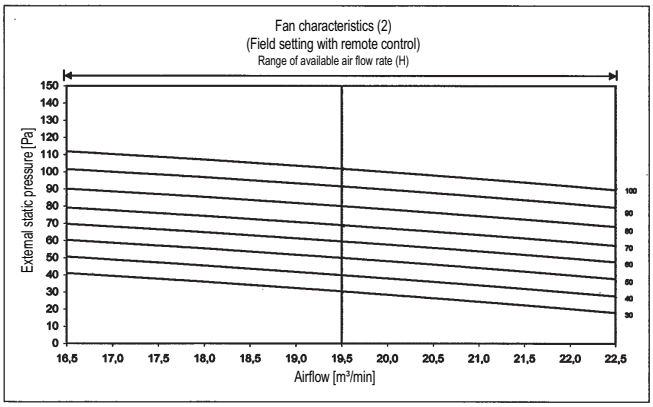
3TW31218-1

11 Fan characteristics

FXSQ63P







NOTES

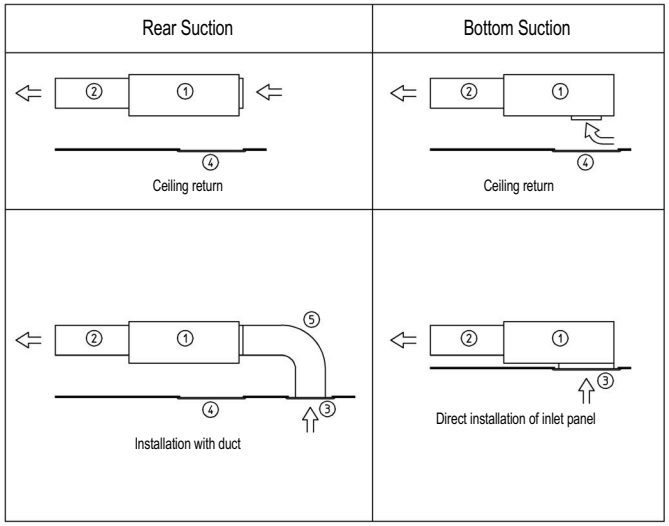
1 Fan characteristics as shown ar in “fan only” mode.
2 ESP: External static pressure

3TW31238-1

12 Installation

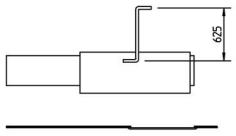
12 - 1 Installation method

FXSQ-P

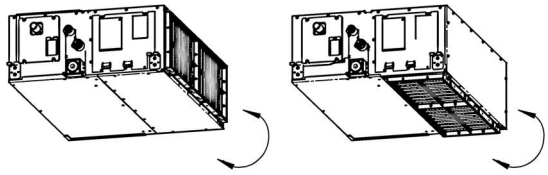


Wide variety of installation methods

Number	Description	
1	Main body	
2	Air outlet duct	Field supply
3	Inlet panel	Optional accessory
4	Acces panel	optional accessory
5	Air inlet duct	Field supply



Drain pump up height



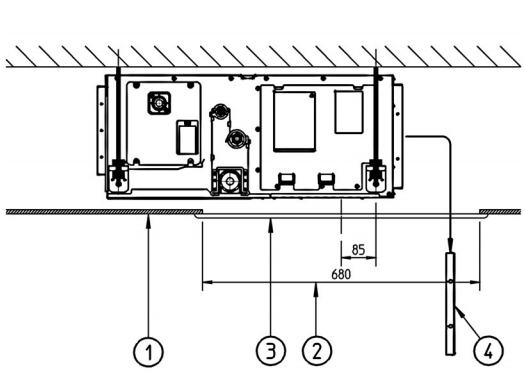
Easy modification from rear to bottom suction

3TW31183-1

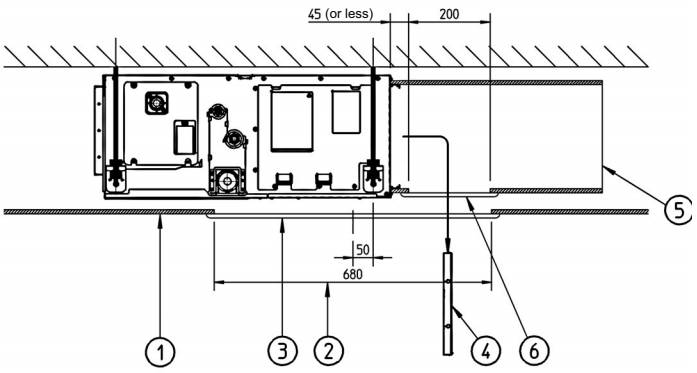
12 Installation

12 - 2 Filter installation method

FXSQ-P



Installation without air inlet duct



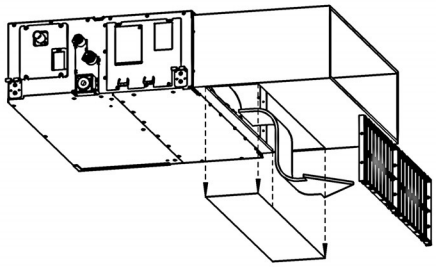
Installation with air inlet duct

Nr.	Description
1	Suspended Ceiling
2	Ceiling opening
3	Service access panel (optimal)
4	Air filter
5	Air inlet duct
6	Duct service opening

NOTES

1 When installing the unit with rear suction, a service opening is necessary for the maintenance of the air filters.

2 When installing the unit with a suction duct. A service opening must be provided in the duct.



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12 Installation

12 - 3 Switch box connection

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