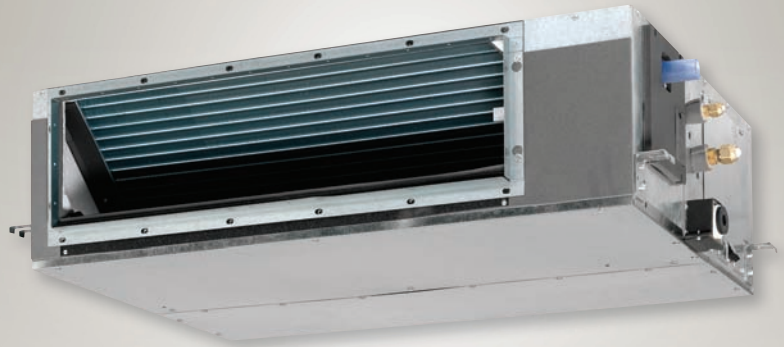


Air Conditioners

Technical Data

VRV[®]

Concealed ceiling unit with inverter driven fan



EEDEN11-204

FXSQ-P



Air Conditioners

Technical Data



Concealed ceiling unit with inverter driven fan



EEDEN11-204

FXSQ-P

TABLE OF CONTENTS

FXSQ-P

1	Specifications	2
	Technical Specifications	2
	Electrical Specifications	3
2	Electrical data	4
	Electrical Data	4
3	Safety device settings	5
	Safety Device Settings	5
4	Options	6
	Options	6
5	Capacity tables	7
	Cooling Capacity Tables	7
	Heating Capacity Tables	9
6	Dimensional drawings	11
	Dimensional Drawings	11
7	Centre of gravity	13
	Centre of Gravity	13
8	Piping diagrams	14
	Piping Diagrams	14
9	Wiring diagrams	15
	Wiring Diagrams - Single Phase	15
10	Sound data	16
	Sound Power Spectrum	16
	Sound Pressure Spectrum	19
11	Fan characteristics	21
	Fan Characteristics	21
12	Installation	25
	Installation Method	25
	Filter Installation Method	26
	Switch Box Connection	27

1 Specifications

1-1 Technical Specifications				FXSQ20 P7VEB	FXSQ25 P7VEB	FXSQ32 P7VEB	FXSQ40 P7VEB	FXSQ50 P7VEB	FXSQ63 P7VEB	FXSQ80 P7VEB	FXSQ100 P7VEB	FXSQ125 P7VEB	FXSQ140 P7VEB	
Cooling capacity	Nom.			kW	2.2 (1)	2.8 (1)	3.6 (1)	4.5 (1)	5.6 (1)	7.1 (1)	9.0 (1)	11.2 (1)	14.0 (1)	16.0 (1)
Heating capacity	Nom.			kW	2.5 (2)	3.2 (2)	4.0 (2)	5.0 (2)	6.3 (2)	8.0 (2)	10.0 (2)	12.5 (2)	16.0 (2)	18.0 (2)
Power input - 50Hz	Cooling	Nom.		kW	0.041 (1)		0.044 (1)	0.097 (1)		0.074 (1)	0.118 (1)	0.117 (1)	0.185 (1)	0.261 (1)
	Heating	Nom.		kW	0.029 (2)		0.032 (2)	0.085 (2)		0.062 (2)	0.106 (2)	0.105 (2)	0.173 (2)	0.249 (2)
Power input - 60Hz	Cooling	Nom.		kW	0.041 (1)		0.044 (1)	0.097 (1)		0.074 (1)	0.118 (1)	0.117 (1)	0.185 (1)	0.261 (1)
	Heating	Nom.		kW	0.029 (2)		0.032 (2)	0.085 (2)		0.062 (2)	0.106 (2)	0.105 (2)	0.173 (2)	0.249 (2)
Casing	Colour			Unpainted										
	Material			Galvanised steel										
Dimensions	Unit	Height	mm	300										
		Width	mm	550		700		1,000		1,400				
		Depth	mm	700										
	Packed unit	Height	mm	355										
		Width	mm	770		920		1,220		1,620				
		Depth	mm	900										
Required ceiling void >				mm	350									
Weight	Unit			kg	23		26		35		46		47	
	Packed unit			kg	28		32		42		54		55	
Decoration panel	Model			BYBS32DJW1		BYBS45DJW1		BYBS71DJW1		BYBS125DJW1				
	Colour			White (10Y9/0.5)										
	Dimensions	Height	mm	55										
		Width	mm	650		800		1,100		1,500				
		Depth	mm	500										
	Weight			kg	3.0		3.5		4.5		6.5			
Heat exchanger	Length			mm	290		440		740		1,140			
	Rows	Quantity		3										
	Fin pitch			mm	1.75								1.50	
	Passes	Quantity		3		4		7		11				
	Face area			m ²	0.097		0.148		0.249		0.383			
	Stages	Quantity		16										
	Empty tubeplate hole	Quantity		12	0									
	Tube type			ø7 Hi-XSS										
	Fin	Type			Symmetric waffle louvre									
		Treatment			Hydrophilic									
Fan	Type			Sirocco fan										
	Quantity			1		2		3						
	Air flow rate - 50Hz	Cooling	High	m ³ /min	9	9.5	16	19.5	25	32	39	46		
			Low	m ³ /min	6.5	7	11	16	20	23	28	32		
		Heating	High	m ³ /min	9	9.5	16	19.5	25	32	39	46		
			Low	m ³ /min	6.5	7	11	16	20	23	28	32		
	Air flow rate - 60Hz	Cooling	High	m ³ /min	9	9.5	16	19.5	25	32	39	46		
			Low	m ³ /min	6.5	7	11	16	20	23	28	32		
		Heating	High	m ³ /min	9	9.5	16	19.5	25	32	39	46		
			Low	m ³ /min	6.5	7	11	16.0	20	23	28	32		
	External static pressure - 50Hz	High	Pa	70		100				120		140		
		Nom.	Pa	30				40		50				
	External static pressure - 60Hz	High	Pa	70		100				120		140		
Nom.		Pa	30				40		50					
Fan motor	Quantity			1										
	Model			Brushless DC motor										
	Speed	Steps		9		10		8		9		11		
		Cooling	High	rpm	1,031	1,061	1,186	975	1,161	1,060	1,218	1,325		
			Low	rpm	802	827	875	840	960	813	920	948		
		Heating	High	rpm	1,031	1,061	1,186	975	1,161	1,060	1,218	1,325		
	Low		rpm	802	827	875	840	960	813	920	948			
Output	High		W	90		140		350						
Drive			Direct drive											

1 Specifications

1-1 Technical Specifications				FXSQ20 P7VEB	FXSQ25 P7VEB	FXSQ32 P7VEB	FXSQ40 P7VEB	FXSQ50 P7VEB	FXSQ63 P7VEB	FXSQ80 P7VEB	FXSQ100 P7VEB	FXSQ125 P7VEB	FXSQ140 P7VEB	
Sound power level	Cooling	Nom.	dBA	55	56	63	59	63	61	66	67			
Sound pressure level	Cooling	High	dBA	32	33	37			38	40	42			
		Low	dBA	26	27	29	30	32	33	34				
	Heating	High	dBA	32	33	37			38	40	42			
		Low	dBA	26	27	29	30	32	33	34				
Refrigerant	Type			R-410A										
	Control			Electronic expansion valve										
Piping connections	Liquid	Type			Flare connection									
		OD		mm	6.35					9.52				
	Gas	Type			Flare connection									
		OD		mm	12.7					15.9				
	Drain			VP25 (O.D. 32 / I.D. 25)										
Heat insulation			Both liquid and gas pipes											
Air filter				Resin net with mold resistance										
Drain-up height			mm	625										
Safety devices	Item	01		Drain pump fuse									PC board fuse	
		02		PC board fuse									PC board fuse (fan driver)	
		03		PC board fuse (fan driver)									Drain pump fuse	

1-2 Electrical Specifications				FXSQ20 P7VEB	FXSQ25 P7VEB	FXSQ32 P7VEB	FXSQ40 P7VEB	FXSQ50 P7VEB	FXSQ63 P7VEB	FXSQ80 P7VEB	FXSQ100 P7VEB	FXSQ125 P7VEB	FXSQ140 P7VEB
Power supply	Name			VE									
	Phase			1~									
	Frequency		Hz	50/60									
	Voltage		V	220-240/220									
Voltage range	Min.		%	-10									
	Max.		%	10									
Current - 50Hz	Minimum circuit amps (MCA)		A	0.5	1.2	1.1	1.3	1.4	1.9	3.1			
	Maximum fuse amps (MFA)		A	16									
Current - 60Hz	Minimum circuit amps (MCA)		A	0.5	1.2	1.1	1.3	1.4	1.9	3.1			
	Maximum fuse amps (MFA)		A	16									

Notes

- (1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m
- (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m
- (3) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- (4) The sound pressure values are mentioned for a unit installed with rear suction.
- (5) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- (6) Maximum allowable voltage range variation between phases is 2%.
- (7) Select wire size based on the value of MCA
- (8) Use a circuit breaker instead of a fuse.

2 Electrical data

2 - 1 Electrical Data

FXSQ-P

Model	Type	Units				Power Supply	
		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
FXSQ140						3.1	16

SYMBOLS

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

NOTES

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

4TW31181-2A

3 Safety device settings

3 - 1 Safety Device Settings

FXSQ20-140P

Safety devices		20	25	32	40	50	63	80	100	125	140
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	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	250V 6.3A
	Fan Motor Thermal Protector	°C	—	—	—	—	—	—	—	—	—
	Drain Pump Fuse	°C	145	145	145	145	145	145	145	145	145

3TW31189-2A

4 Options

4 - 1 Options

FXSQ20-140P

Options

Item	Type	FXSQ20,25,32	FXSQ40,50	FXSQ63,80	FXSQ100,125,140
Panel related	Decoration panel (*5)	BYBS32	BYBS45D	BYBS71D	BYBS125D
Air inlet and air discharge outlet related	Air discharge adapter for round duct	KDAJ25K36A	KDAJ25K56A	KDAJ25KA71A	KDAJ25KA140A
Panel related	Decoration panel option	EKBYBSD			

Operation Control

Item	Type	FXSQ20,25,32	FXSQ40,50	FXSQ63,80	FXSQ100,125,140
Remote Control	Wired Type	BRC1D528 / BRC1E51A			
	Infrared type	BRC4C65			
	HP	BRC4C66			
	CO	BRC2C51			
Simplified remote control		BRC3A61			
Remote control for hotel use		EKRP1B2A			
Option BCB for external el. heater, humidifier and/or hour meter (*1), (*2), (*3), (*4)		KRP1C64			
Adapter for wiring (interlock for fresh air intake fan) (*4)		KRP2A51			
Wiring adapter for electrical appendices (1) (*2), (*4)		KRP4A51			
Wiring adapter for electrical appendices (2) (*4)		KRCS01-4B			
Remote sensor		DCS302CA51			
Central remote control		KJB311A			
Electrical box with earth terminal (3 blocks)		DCS301BA51			
Unified ON/OFF control		KJB212A			
Electrical box with earth terminal (2 blocks)		DST301BA51			
Schedule timer		DTA104A61			
External adapter for outdoor unit (installation on indoor unit) (*4)		KRP4A96			
Mounting plate for adapter PCB					

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.

(*5): Decoration panel option EKBYBSD is required for direct mounting of the decoration panel on the unit.

Contents of accessory bag

Description	Quantity
	FXSQ 20,25,32,40,50,63,80,100,125,140
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

3TW31189-3D

5 Capacity tables

5 - 1 Cooling Capacity Tables

FXSQ-P															
Unit size	Outdoor °CDB	Indoor air temp.													
		14.OWB 20.ODB		16.OWB 23.ODB		18.OWB 26.ODB		19.OWB 27.ODB		20.OWB 28.ODB		22.OWB 30.ODB		24.OWB 32.ODB	
		TH	SHC	TH	SHC	TH	SHC	TH	SHC	TH	SHC	TH	SHC	TH	SHC
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	2.7	2.0
	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	3.4	4.5	3.9	5.2	4.4	5.6	4.4	6.0	4.5	6.7	4.6	7.1	4.6
	12.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	6.0	4.5	6.7	4.6	7.0	4.6
	14.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	6.0	4.5	6.7	4.6	6.9	4.5
	16.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	6.0	4.5	6.7	4.6	6.8	4.5
	18.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	6.0	4.5	6.6	4.6	6.7	4.4
	20.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	6.0	4.5	6.5	4.5	6.6	4.4
	21.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	6.0	4.5	6.4	4.5	6.6	4.4
	23.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	6.0	4.5	6.4	4.5	6.5	4.3
	25.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	6.0	4.5	6.3	4.4	6.4	4.3
	27.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	6.0	4.5	6.2	4.4	6.3	4.2
	29.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	5.9	4.5	6.1	4.3	6.2	4.2
	31.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	5.9	4.4	6.0	4.3	6.1	4.1
	33.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	5.8	4.4	5.9	4.2	6.0	4.1
	35.0	3.8	3.4	4.5	3.9	5.2	4.4	5.6	4.4	5.7	4.3	5.8	4.2	5.9	4.1
37.0	3.8	3.4	4.5	3.9	5.2	4.4	5.5	4.4	5.6	4.3	5.7	4.1	5.8	4.0	
39.0	3.8	3.4	4.5	3.9	5.2	4.4	5.4	4.3	5.5	4.2	5.6	4.1	5.8	4.0	

3TW31182-1B

5 Capacity tables

5 - 1 Cooling Capacity Tables

FXSQ-P															
Unit size	Outdoor °CDB	Indoor air temp.													
		14.OWB 20.ODB		16.OWB 23.ODB		18.OWB 26.ODB		19.OWB 27.ODB		20.OWB 28.ODB		22.OWB 30.ODB		24.OWB 32.ODB	
		TH	SHC	TH	SHC	TH	SHC	TH	SHC	TH	SHC	TH	SHC	TH	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	8.9	5.8
	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	5.8
	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	5.7
	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	5.7
	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	5.6
	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	5.6
	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	5.5
	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	5.5
	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	5.4
	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	5.4
	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	5.3
	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	5.3
	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	5.2
	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	5.2
	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	5.1
	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	5.0
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	8.5	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	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.9	10.8	16.7	11.1	17.7	11.1
	12.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.9	10.8	16.7	11.1	17.5	11.0
	14.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.9	10.8	16.7	11.1	17.2	10.9
	16.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.9	10.8	16.7	11.1	17.0	10.8
	18.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.9	10.8	16.4	11.0	16.8	10.7
	20.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.9	10.8	16.2	10.9	16.6	10.6
	21.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.9	10.8	16.1	10.9	16.4	10.5
	23.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.9	10.8	15.9	10.8	16.2	10.4
	25.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.9	10.8	15.6	10.6	16.0	10.3
	27.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.9	10.8	15.4	10.5	15.8	10.2
	29.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.9	10.7	15.2	10.4	15.5	10.1
	31.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.6	10.6	15.0	10.3	15.3	10.0
	33.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.4	10.5	14.7	10.2	15.1	9.8
	35.0	9.4	8.0	11.3	9.2	13.1	10.3	14.0	10.5	14.2	10.4	14.5	10.1	14.9	9.7
	37.0	9.4	8.0	11.3	9.2	13.1	10.3	13.8	10.4	13.9	10.3	14.3	10.0	14.6	9.6
	39.0	9.4	8.0	11.3	9.2	13.1	10.3	13.5	10.3	13.7	10.2	14.1	9.9	14.4	9.5
140	10.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	17.0	12.3	19.1	12.7	20.2	12.6
	12.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	17.0	12.3	19.1	12.7	20.0	12.5
	14.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	17.0	12.3	19.1	12.7	19.7	12.4
	16.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	17.0	12.3	19.1	12.7	19.4	12.3
	18.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	17.0	12.3	18.8	12.6	19.2	12.2
	20.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	17.0	12.3	18.5	12.4	18.9	12.1
	21.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	17.0	12.3	18.4	12.4	18.8	12.1
	23.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	17.0	12.3	18.1	12.3	18.5	12.0
	25.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	17.0	12.3	17.9	12.1	18.3	11.9
	27.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	17.0	12.3	17.6	12.0	18.0	11.8
	29.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	17.0	12.3	17.4	11.9	17.8	11.7
	31.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	16.7	12.1	17.1	11.8	17.5	11.6
	33.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	16.5	12.0	16.8	11.7	17.2	11.5
	35.0	10.8	9.0	12.9	10.4	15.0	11.7	16.0	12.0	16.2	11.9	16.6	11.5	17.0	11.3
	37.0	10.8	9.0	12.9	10.4	15.0	11.7	15.7	11.9	15.9	11.7	16.3	11.4	16.7	11.2
	39.0	10.8	9.0	12.9	10.4	15.0	11.7	15.5	11.8	15.7	11.6	16.1	11.3	16.5	11.1

5 Capacity tables

5 - 2 Heating Capacity Tables

FXSQ-P								
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
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	2.1
	-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	2.4	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	2.8	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	5.2	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	4.2	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	

3TW25512-2B

5 Capacity tables

5 - 2 Heating Capacity Tables

FXSQ-P								
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
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
-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	8.4	8.4	8.4	8.4	8.4	8.4
-3.0		-3.7	8.8	8.8	8.7	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
	-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
-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	10.9	10.8	10.8	10.8	10.7
-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
140		-19.8	-20.0	10.6	10.6	10.6	10.6	10.5
	-18.8	-19.0	10.9	10.9	10.9	10.9	10.9	10.8
	-16.7	-17.0	11.6	11.6	11.5	11.5	11.5	11.5
	-13.7	-15.0	12.2	12.2	12.2	12.1	12.1	12.1
	-11.8	-13.0	12.9	12.8	12.8	12.8	12.8	12.7
	-9.8	-11.0	13.5	13.5	13.4	13.4	13.4	13.4
	-9.5	-10.0	13.8	13.8	13.7	13.7	13.7	13.7
	-8.5	-9.1	14.1	14.1	14.0	14.0	14.0	14.0
	-7.0	-7.6	14.6	14.5	14.5	14.5	14.5	14.4
	-5.0	-5.6	15.2	15.2	15.1	15.1	15.1	15.1
	-3.0	-3.7	15.8	15.8	15.7	15.7	15.7	15.7
	0.0	-0.7	16.8	16.7	16.7	16.7	16.7	15.7
	3.0	2.2	17.7	17.7	17.6	17.4	16.8	15.7
	5.0	4.1	18.3	18.3	18.0	17.4	16.8	15.7
	7.0	6.0	18.9	18.9	18.0	17.4	16.8	15.7
	9.0	7.9	19.5	19.2	18.0	17.4	16.8	15.7
	11.0	9.8	20.1	19.2	18.0	17.4	16.8	15.7
	13.0	11.8	20.3	19.2	18.0	17.4	16.8	15.7
	15.0	13.7	20.3	19.2	18.0	17.4	16.8	15.7

3TW25512-2B

6 Dimensional drawings

6 - 1 Dimensional Drawings

FXSQ20-32P

View A-A (7)

Detail B

Ø125 (Knock out hole)
Fresh air intake position

6 x M5 (On circumference)

25 700 127 1 2 10 3 2x65 = 130 9 277 39 6 5 4 8 390 or more (Service space) 271

500 (Ceiling opening) 462

650 (Ceiling opening)

With decoration panel

588 (Suspension position)
4x65 = 260

631 (Suspension position)

43 140 110 114 8 x M4

Item	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 (OD ø 32, ID ø 25)
4	Remote control wiring connection	-
5	Power supply connection	-
6	Drain hole	VP25 (OD ø 32, ID ø 25)
7	Air filter	-
8	Air suction side	-
9	Air discharge side	-
10	Nameplate	-

NOTES

1. Refer to the outlook drawing of optional accessories when installing them.
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.
4. Optional decoration panel: BYBs32DJW1 (light ivory white 10Y9/0.5)

3TW31184-1B

FXSQ40-50P

View A-A (7)

Detail B

Ø125 (Knock out hole)
Fresh air intake position

6 x M5 (On circumference)

25 700 127 1 2 10 3 2x65 = 130 9 277 39 6 5 4 8 390 or more (Service space) 271

500 (Ceiling opening) 462

800 (Ceiling opening) 760

With decoration panel

738 (Suspension position)
6x65 = 390

631 (Suspension position)

49 176 200 190 150 10 x M4

Item	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 (OD ø 32, ID ø 25)
4	Remote control wiring connection	-
5	Power supply connection	-
6	Drain hole	VP25 (OD ø 32, ID ø 25)
7	Air filter	-
8	Air suction side	-
9	Air discharge side	-
10	Nameplate	-

NOTES

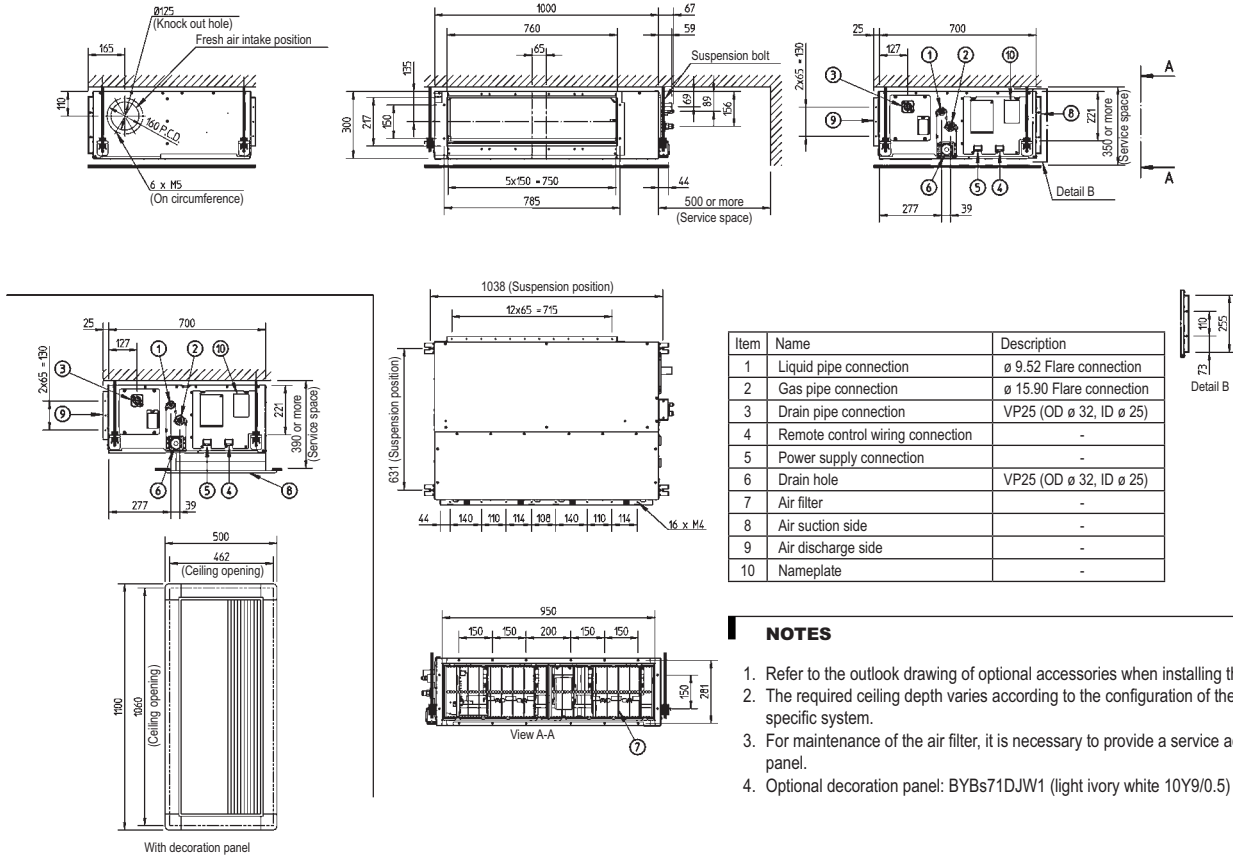
1. Refer to the outlook drawing of optional accessories when installing them.
2. The required ceiling depth varies according to the configuration of the specific system.
3. For maintenance of the air filter, it is necessary to provide a service access panel.
4. Optional decoration panel: BYBs4DJW1 (light ivory white 10Y9/0.5)

3TW31214-1B

6 Dimensional drawings

6 - 1 Dimensional Drawings

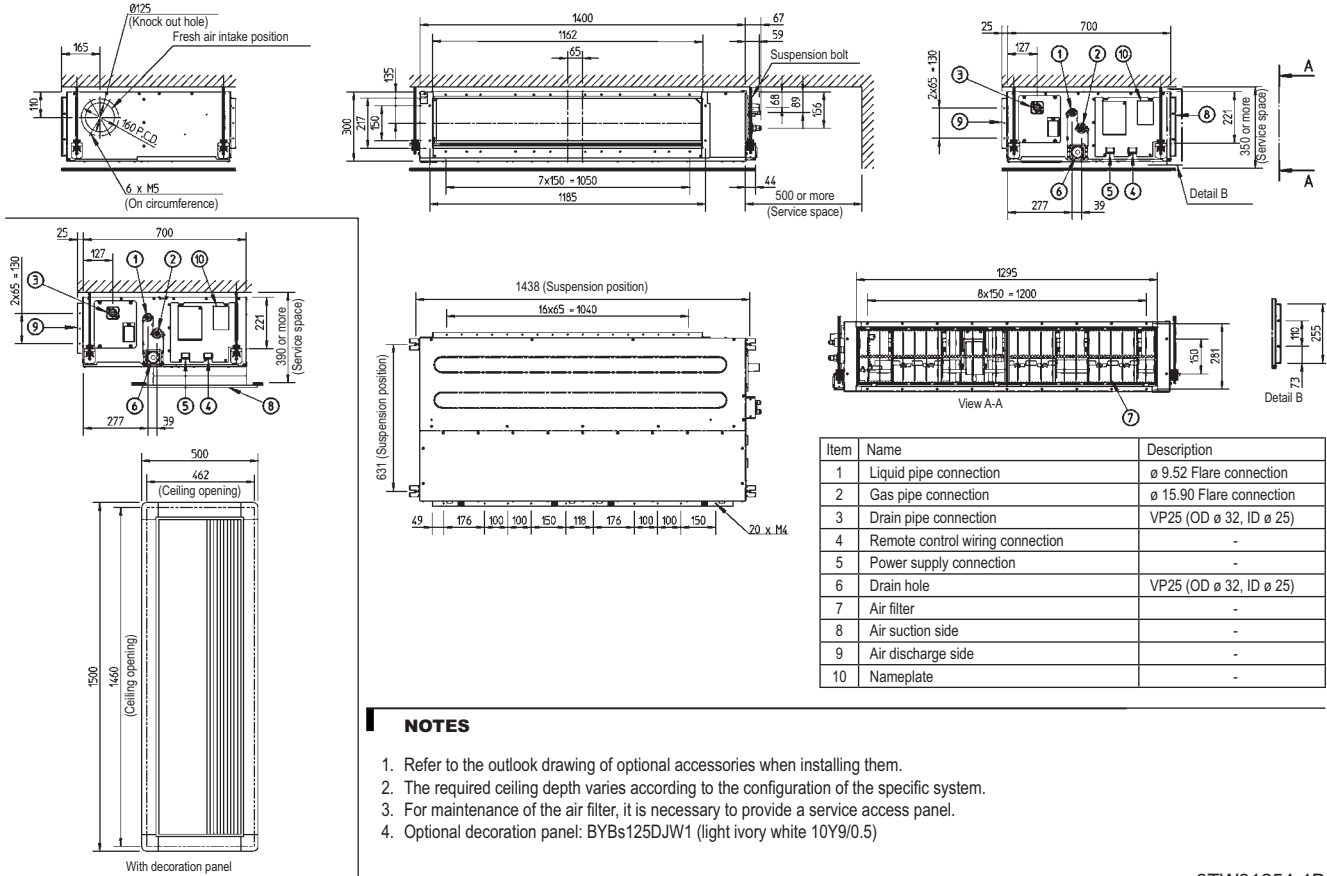
FXSQ63-80P



- NOTES**
1. Refer to the outlook drawing of optional accessories when installing them.
 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.
 4. Optional decoration panel: BYBs71DJW1 (light ivory white 10Y9/0.5)

3TW31234-1B

FXSQ100-140P

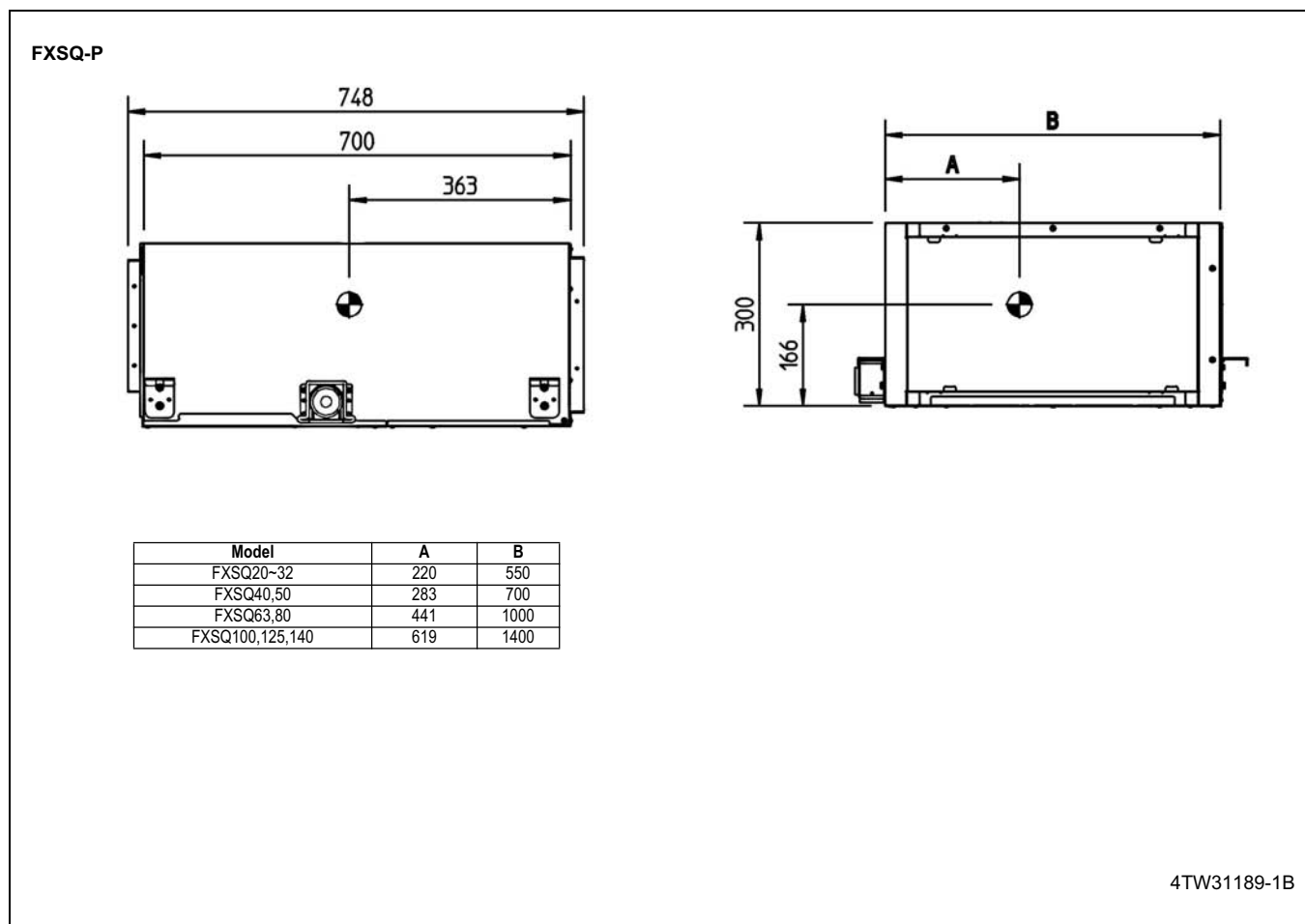


- NOTES**
1. Refer to the outlook drawing of optional accessories when installing them.
 2. The required ceiling depth varies according to the configuration of the specific system.
 3. For maintenance of the air filter, it is necessary to provide a service access panel.
 4. Optional decoration panel: BYBs125DJW1 (light ivory white 10Y9/0.5)

3TW31254-1B

7 Centre of gravity

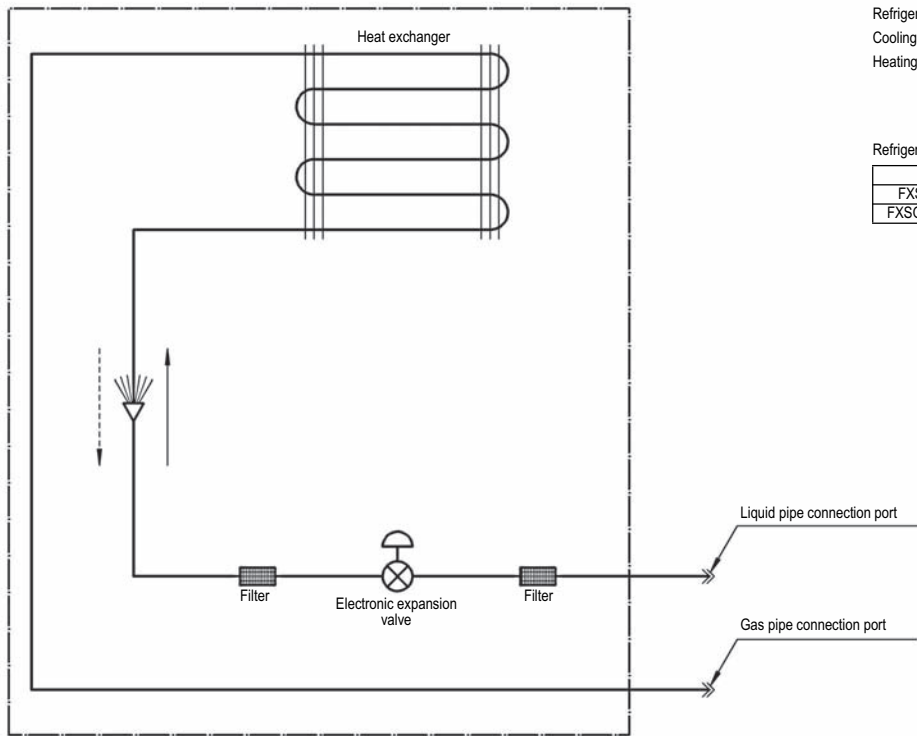
7 - 1 Centre of Gravity



8 Piping diagrams

8 - 1 Piping Diagrams

FXSQ20-140P



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

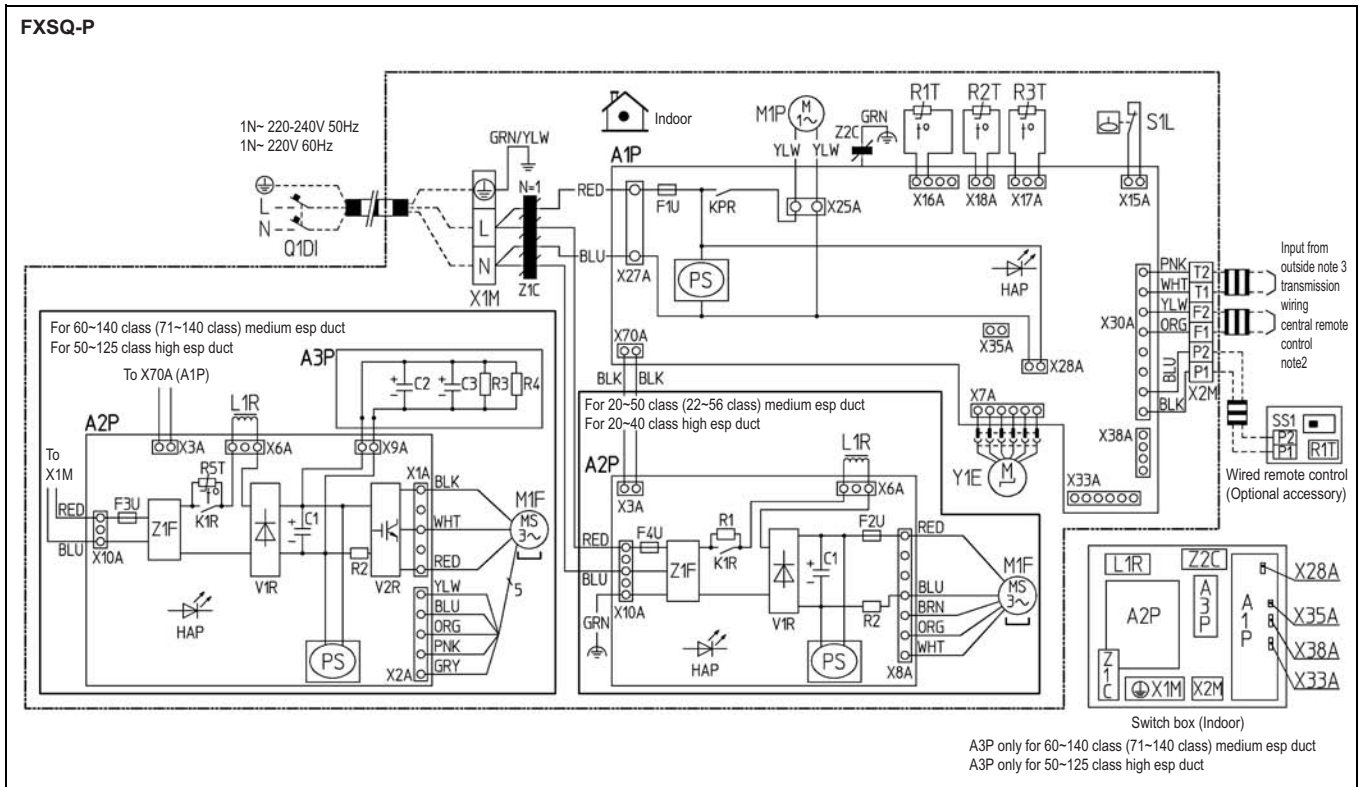
Refrigerant pipe connection port diameters

Model	Gas	Liquid
FXSQ20,25,32,40,50	Ø12.70	Ø6.35
FXSQ63,80,100,125,140	Ø15.90	Ø9.52

3TW31185-1A

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase



Indoor Unit		R2T	Thermistor (Liquid)
A1P	Printed circuit board	R3T	Thermistor (Gas)
A2P	Printed circuit board (Fan)	R5T	Thermistor NTC (Current limiting)
A3P	Printed circuit board (Capacitor)	S1L	Float switch
C1,C2,C3	Capacitor	V1R	Diode bridge
F1U	Fuse (T, 3.15A, 250V)	V2R	Power module
F2U	Fuse (T, 5A, 250V)	X1M	Terminal strip (Power supply)
F3U	Fuse (T, 6.3A, 250V)	X2M	Terminal strip (Control)
F4U	Fuse (T, 6.3A, 250V)	Y1E	Electronic expansion valve
HAP	Light emitting diode (Service monitor-green)	Z1C, Z2C	Noise filter (Ferrite core)
KPR, K1R	Magnetic relay	Z1F	Noise filter
L1R	Reactor	Connector optional accessory	
M1F	Motor fan	X28A	Connector (Power supply for wiring)
M1P	Motor (Drain pump)	X33A	Connector (For wiring)
PS	Switching power supply	X35A	Connector (Adapter)
Q1DI	Earth leak detector	X38A	Connector (For wiring)
R1	Resistor (Current limiting)	Wired remote control	
R2	Current sensing device	R1T	Thermistor (Air)
R3, R4	Resistor (Electric discharge)	SS1	Selector switch (Main/sub)
R1T	Thermistor (Suction air)		

- : Field wiring
- L : Live
- N : Neutral
- : Connector
- : Wire clamp
- : Protective earth (screw)

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

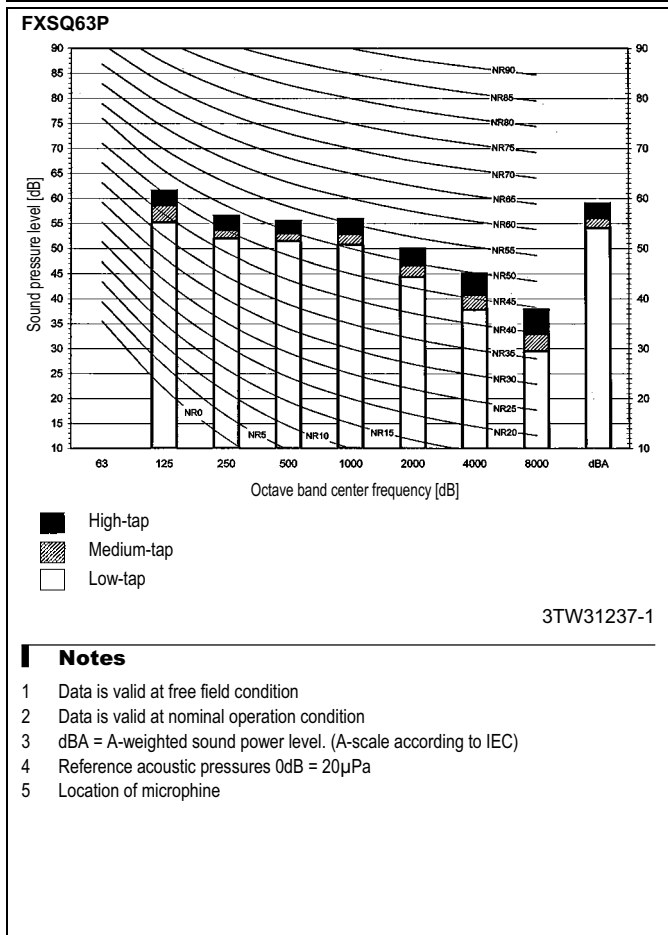
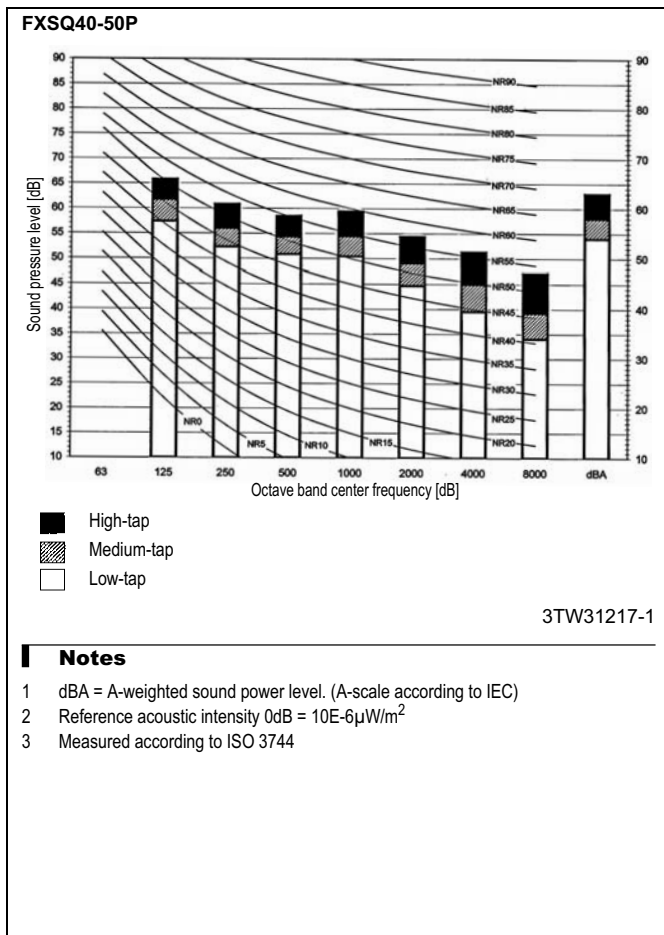
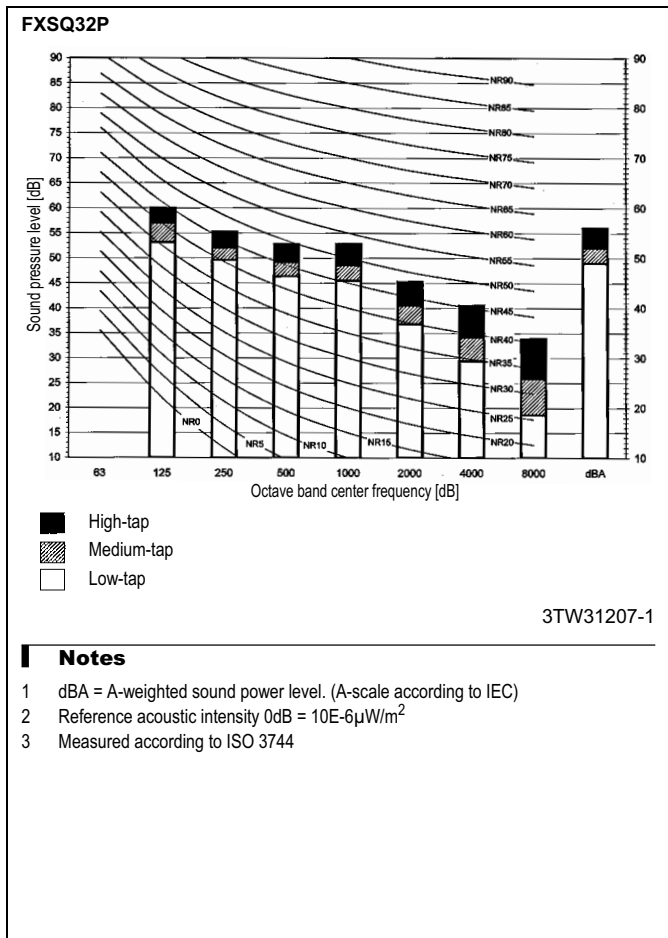
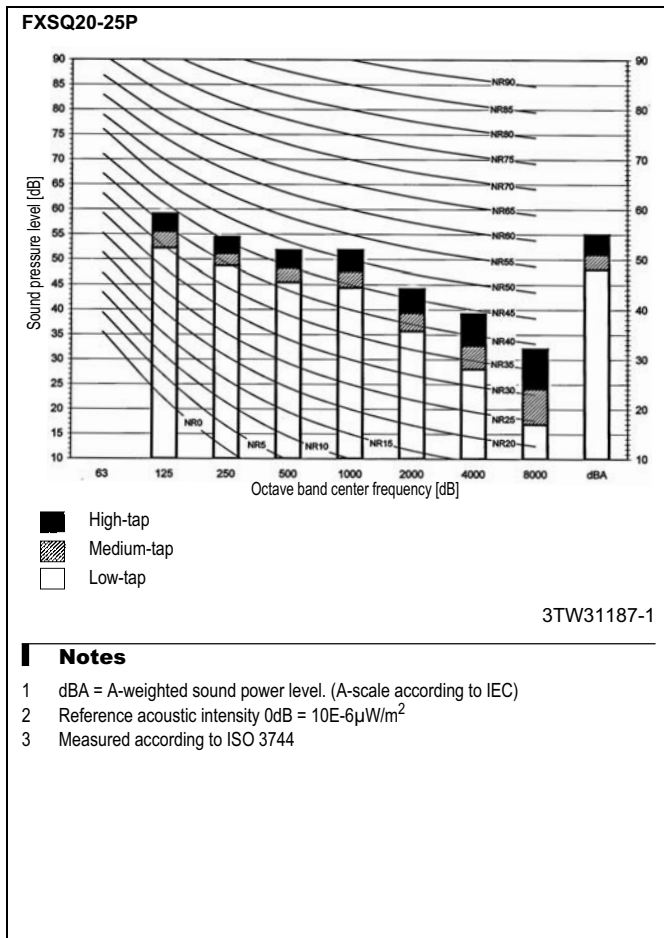
2TW32656-1

NOTES

- Use copper conductors only.
- When using the central remote control, see manual for connection to the unit.
- 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.

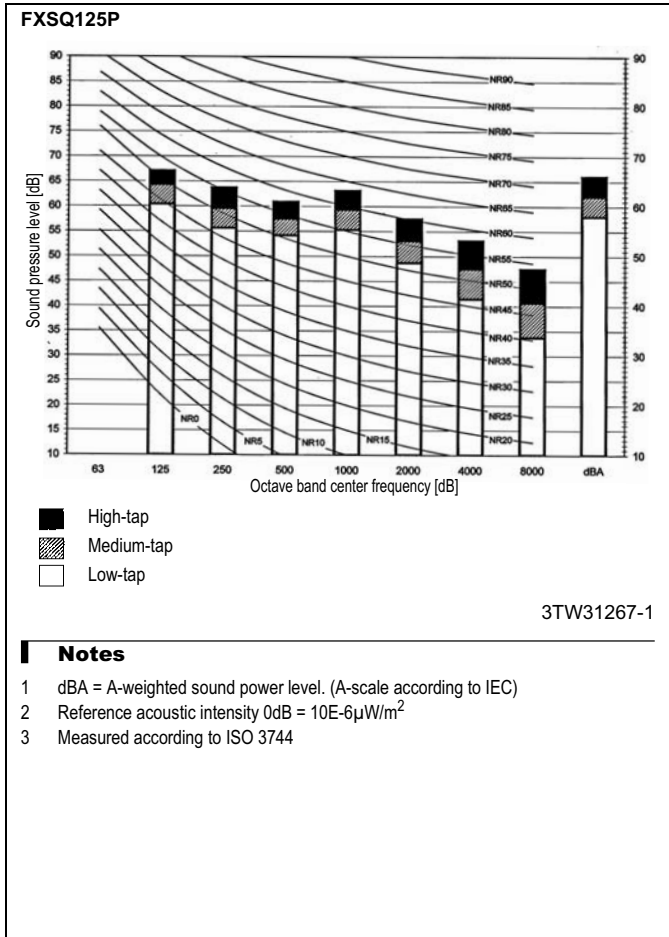
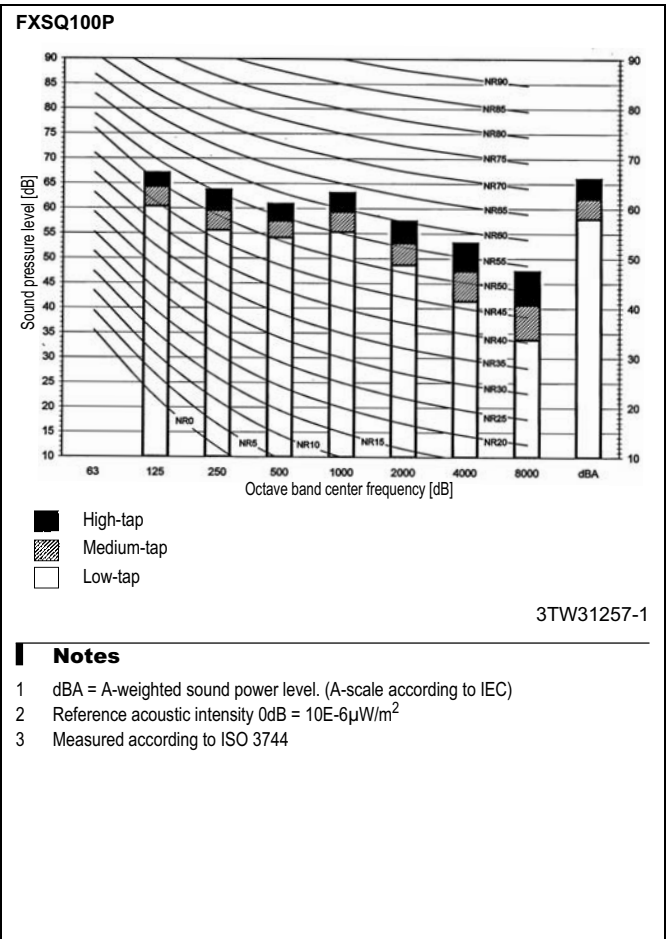
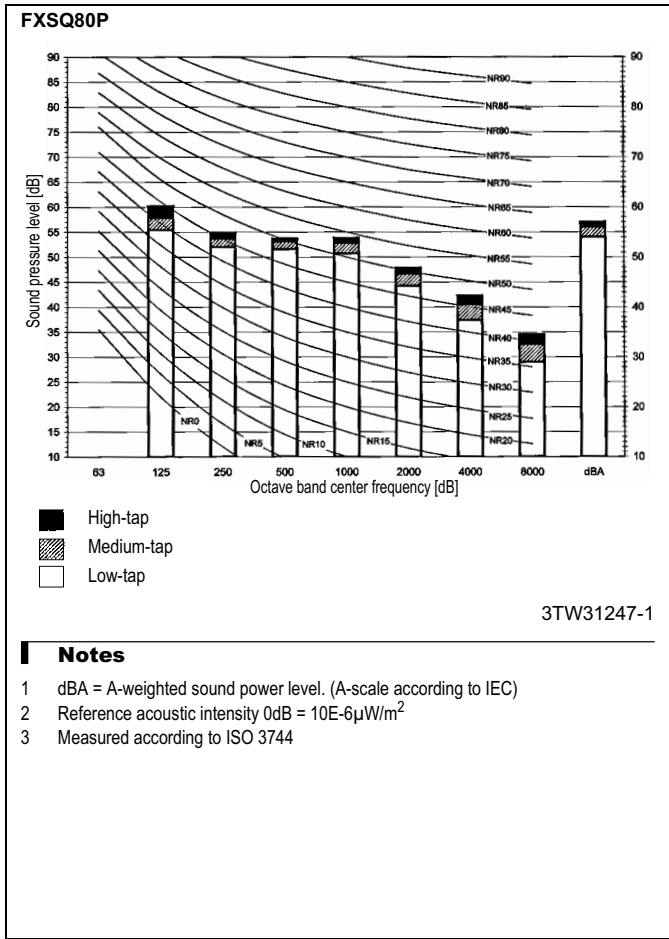
10 Sound data

10 - 1 Sound Power Spectrum



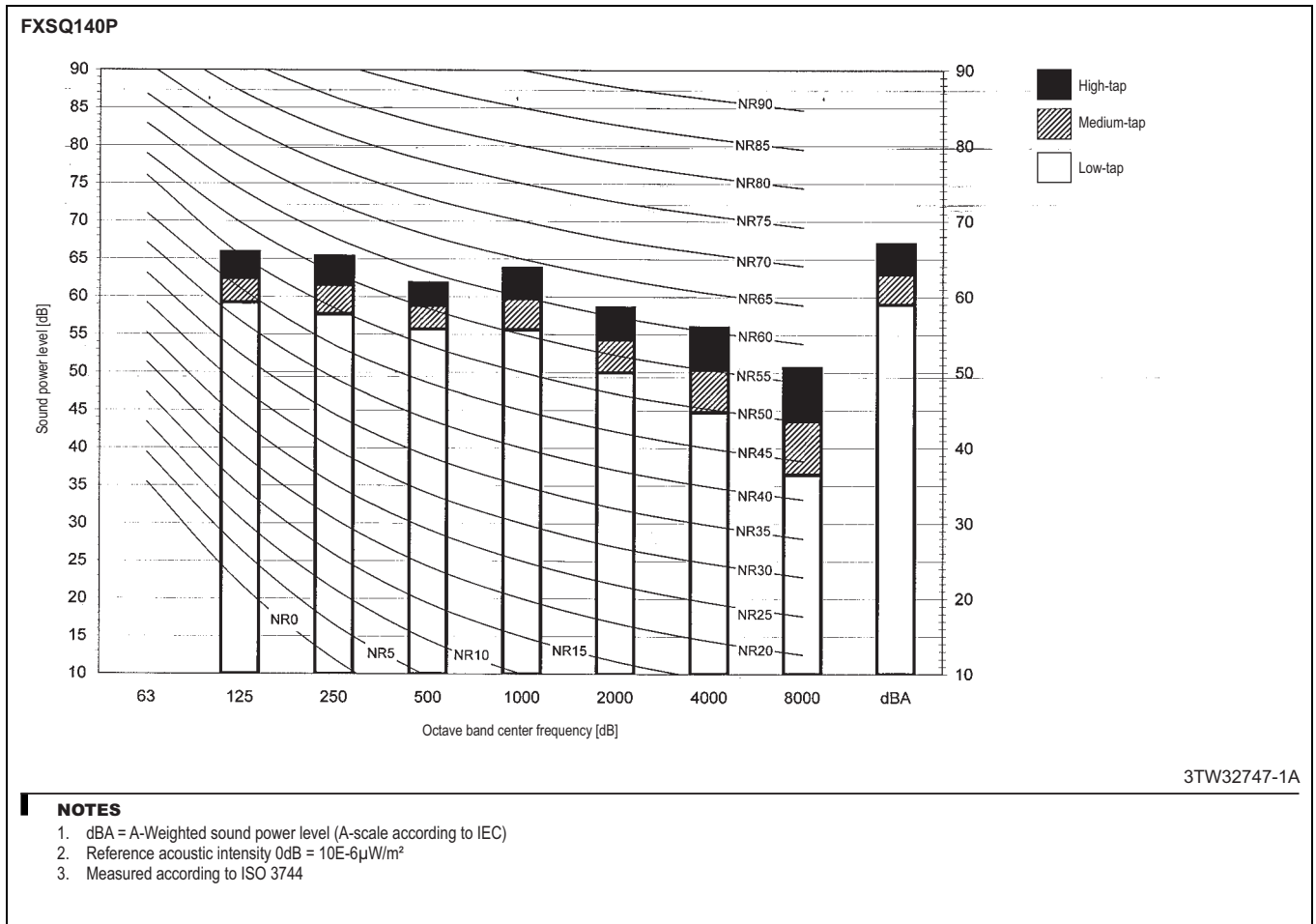
10 Sound data

10 - 1 Sound Power Spectrum



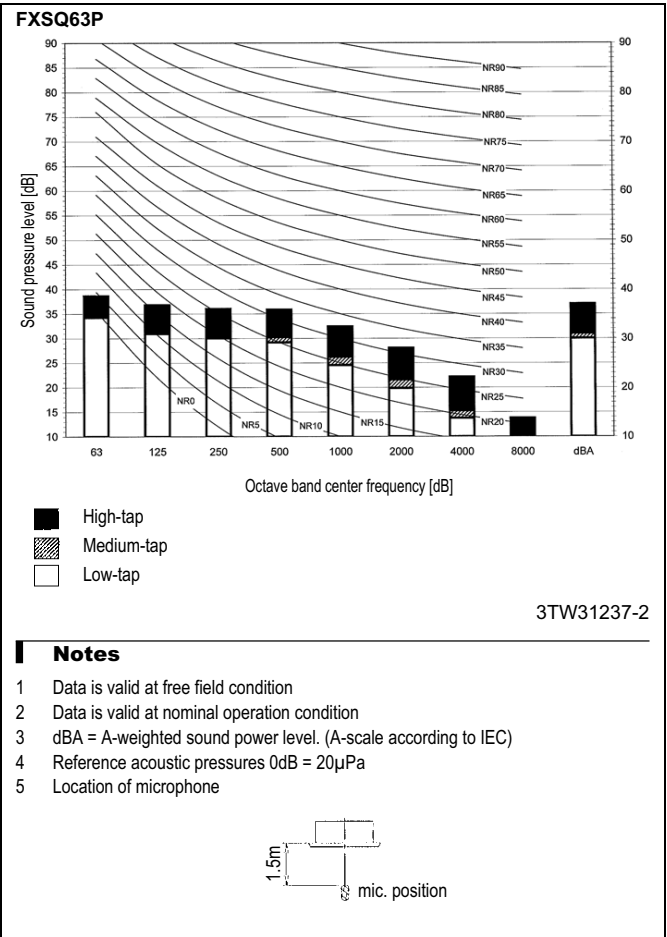
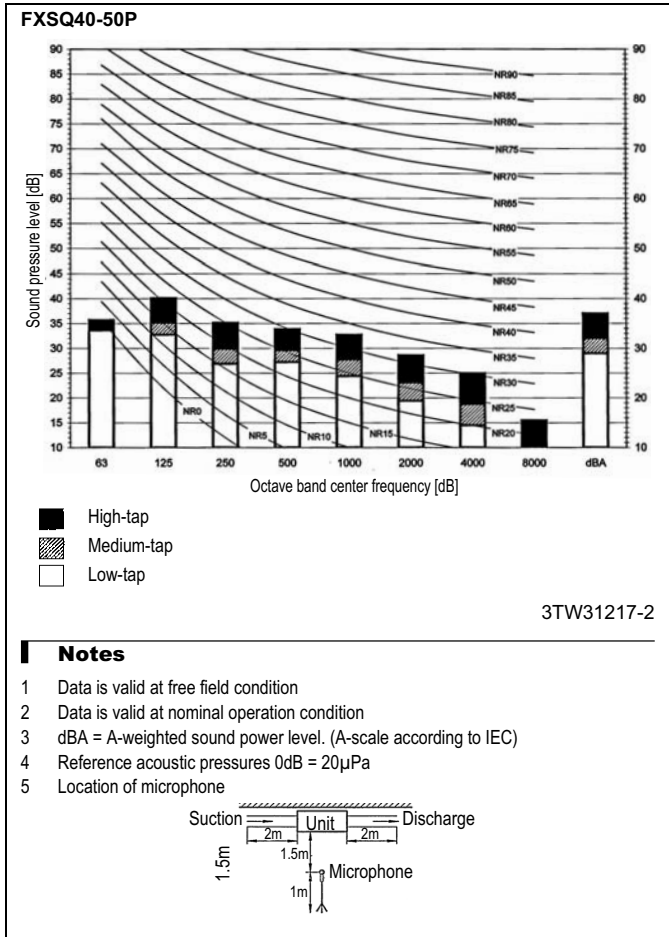
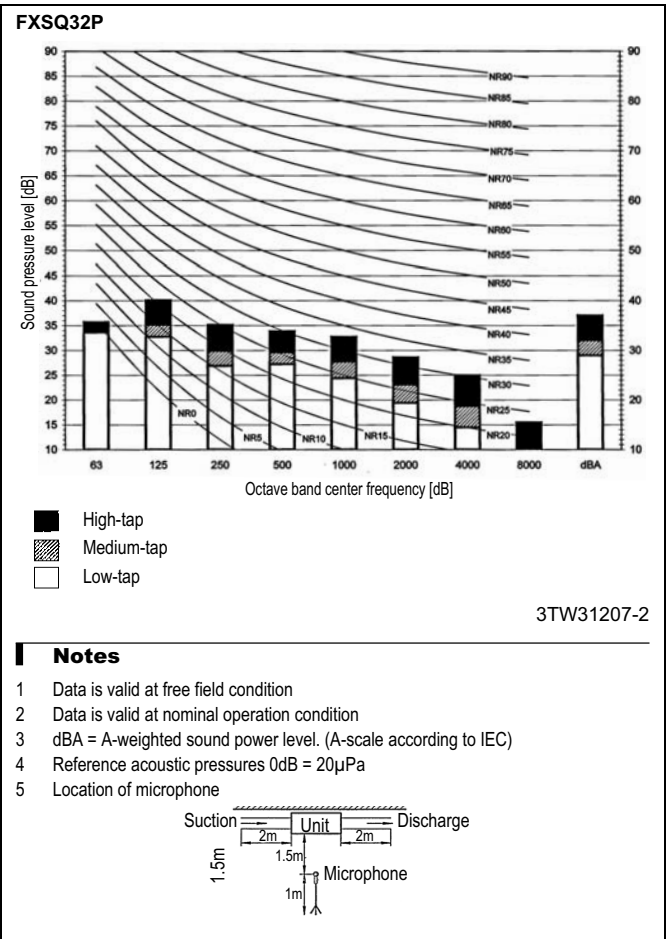
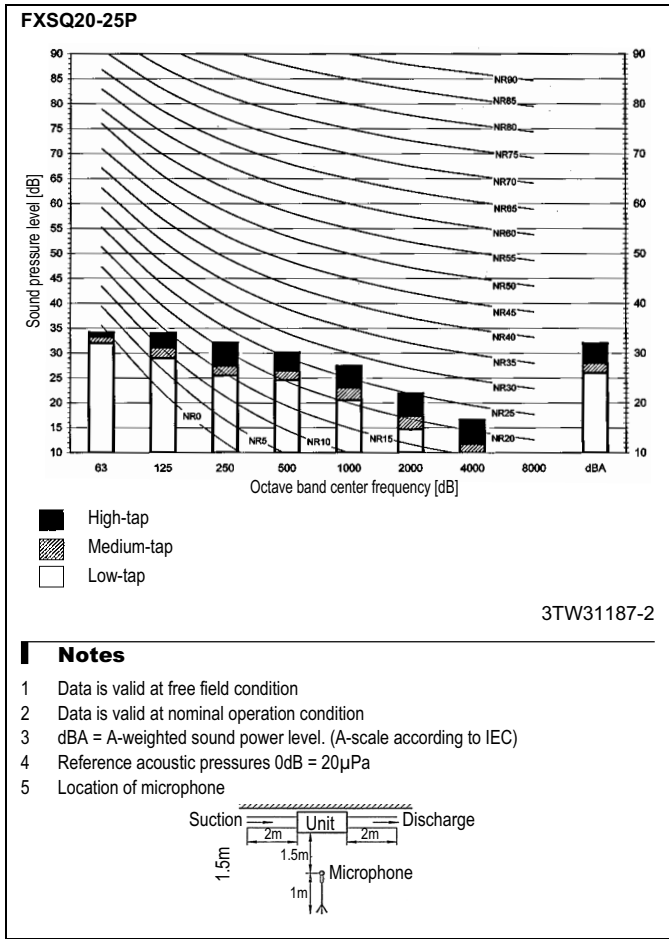
10 Sound data

10 - 1 Sound Power Spectrum



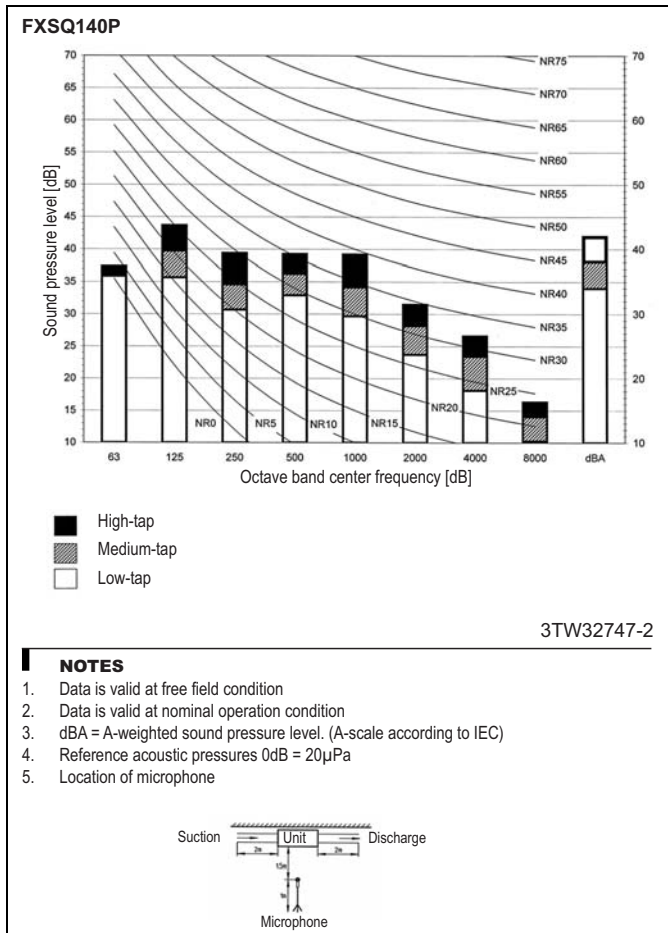
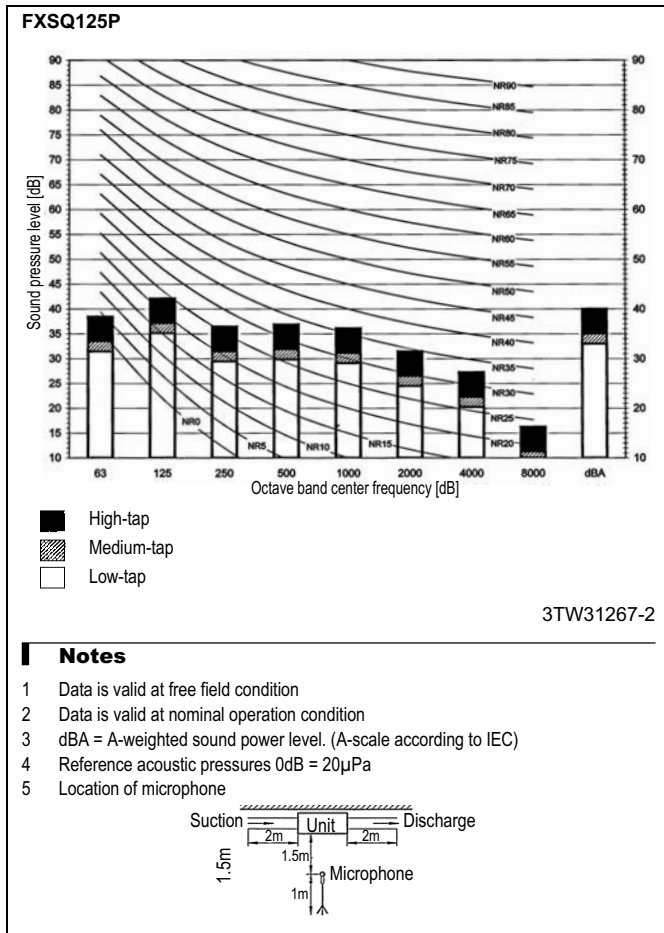
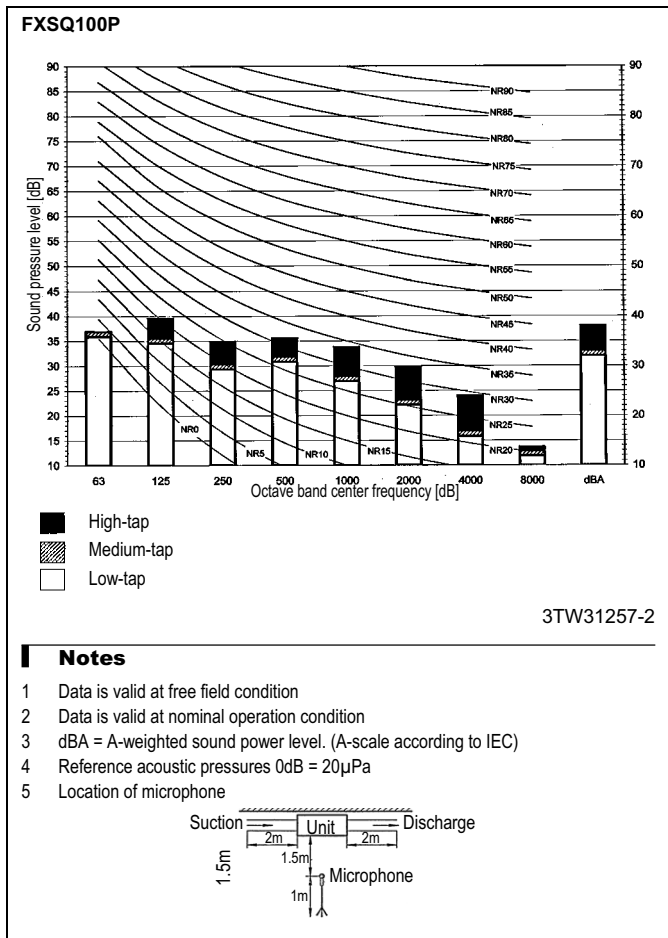
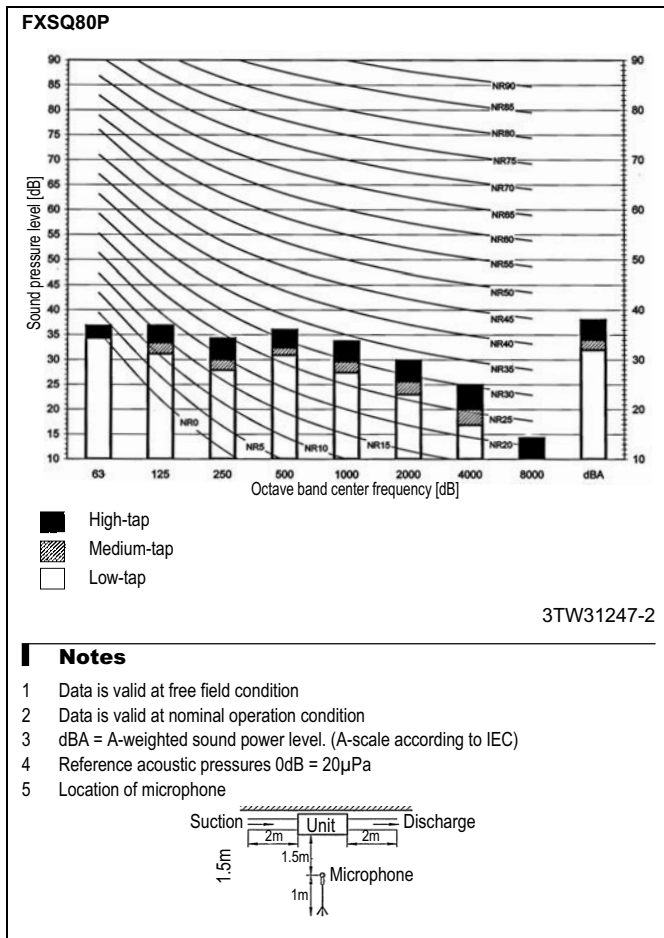
10 Sound data

10 - 2 Sound Pressure Spectrum



10 Sound data

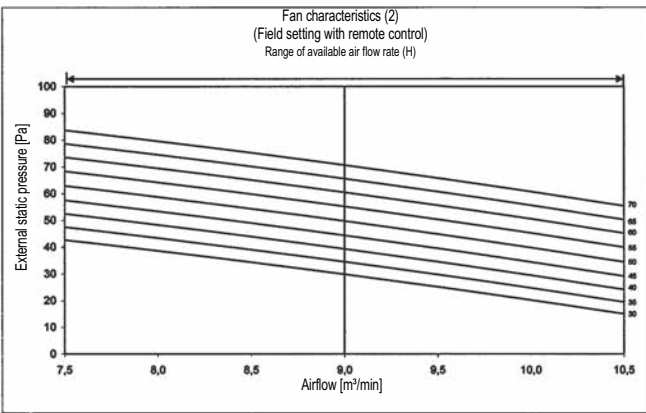
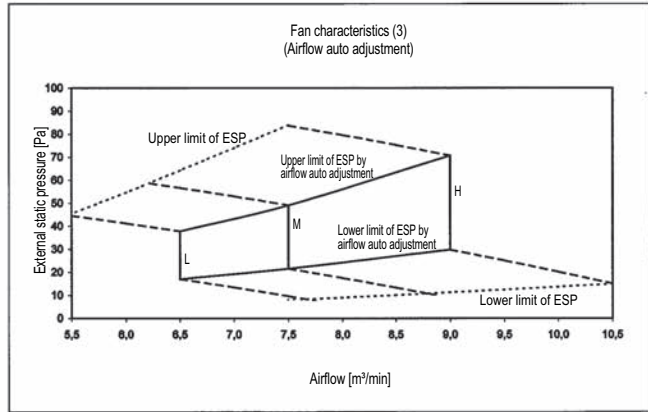
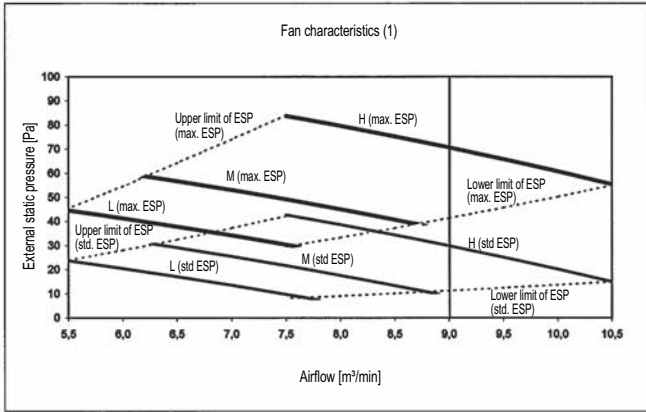
10 - 2 Sound Pressure Spectrum



11 Fan characteristics

11 - 1 Fan Characteristics

FXSQ20-25P

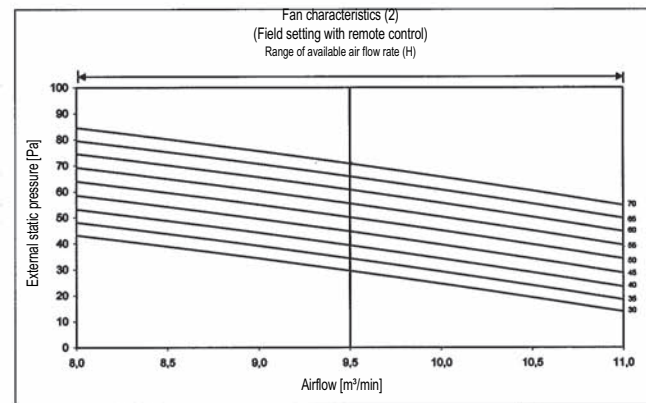
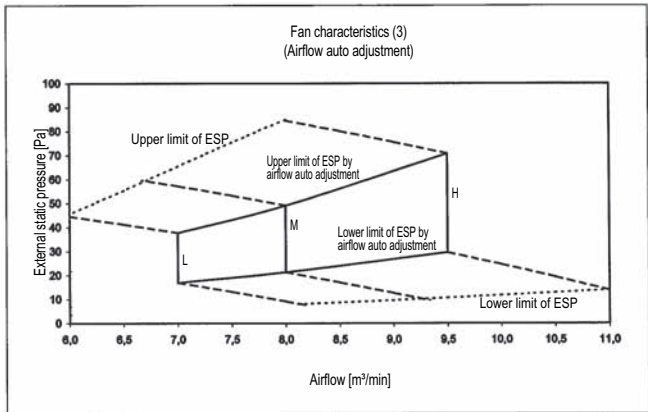
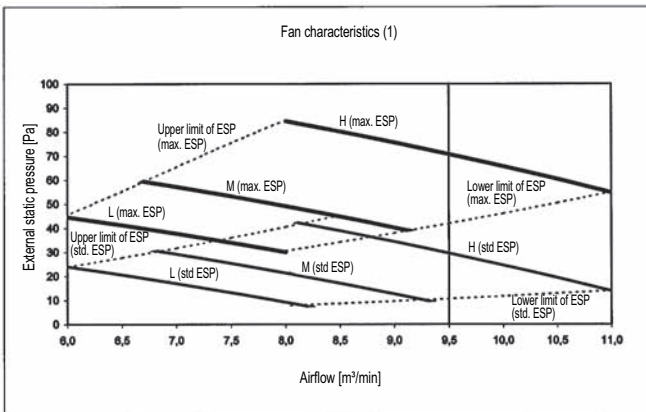


NOTES

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

3TW31188-1

FXSQ32P



NOTES

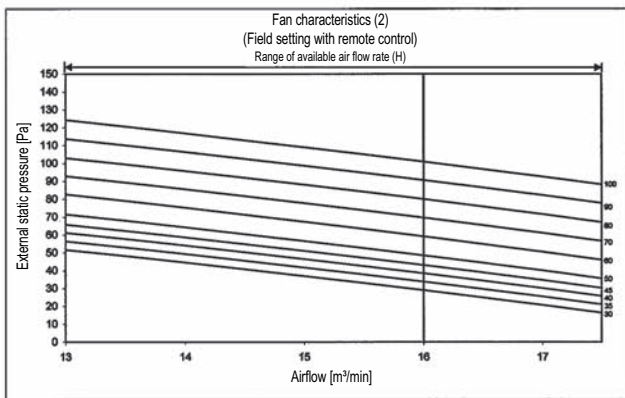
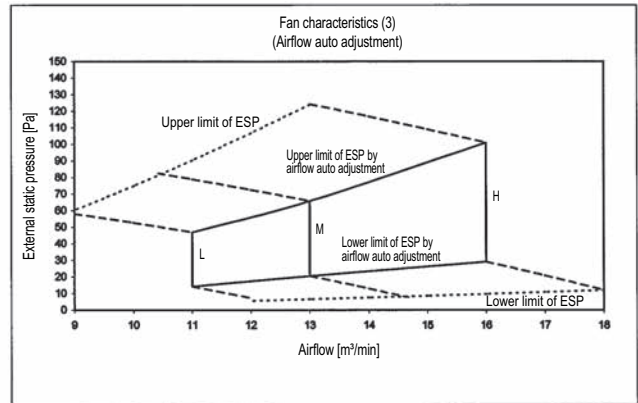
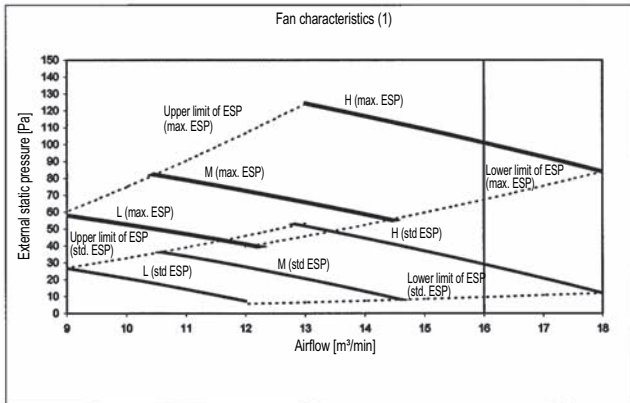
- 1 Fan characteristics as shown ar in "fan only" mode.
- 2 ESP: External static pressure

3TW31208-1

11 Fan characteristics

11 - 1 Fan Characteristics

FXSQ40-50

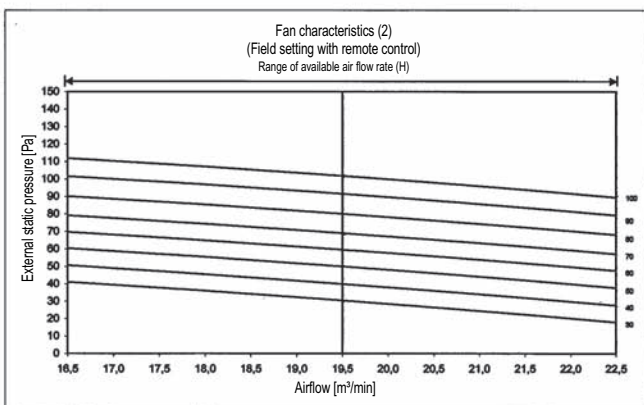
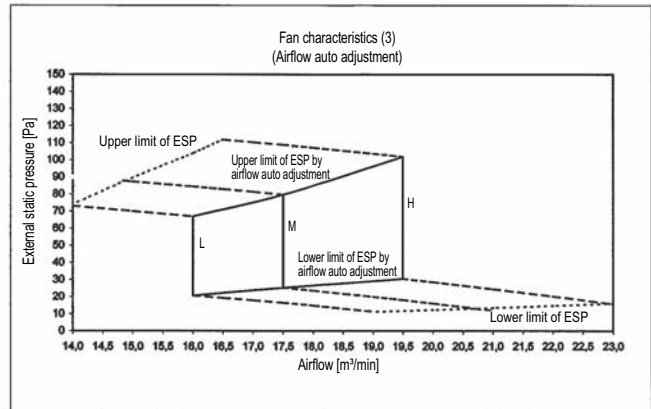
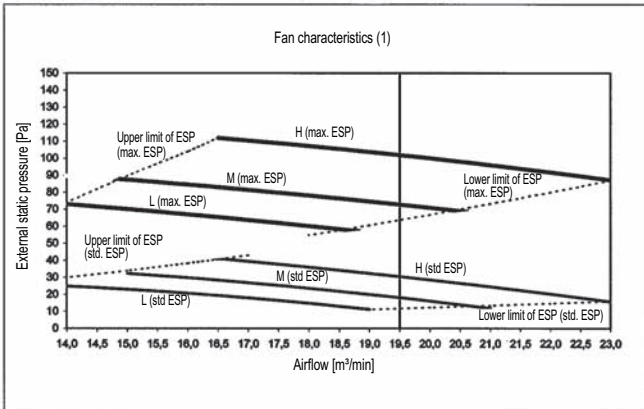


NOTES

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

3TW31218-1

FXSQ63P



NOTES

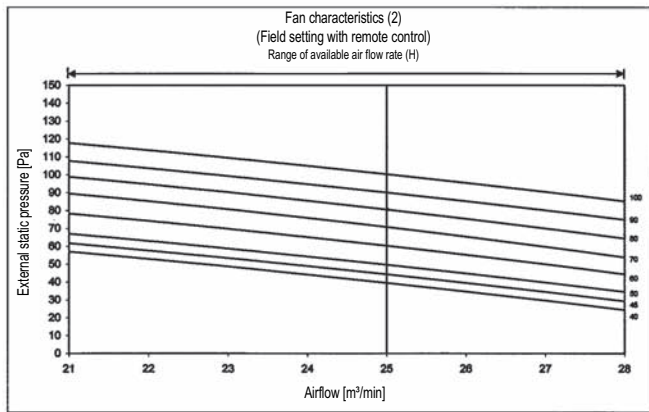
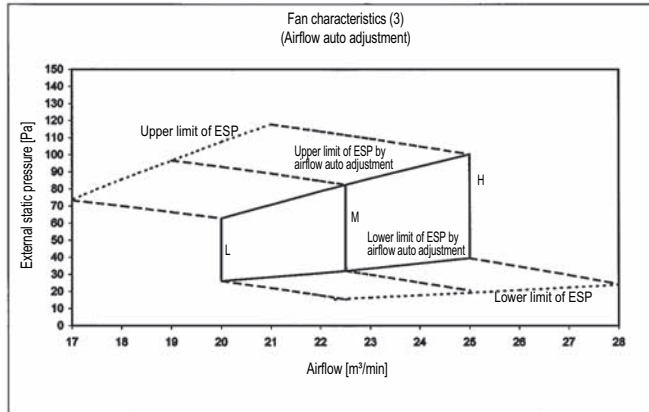
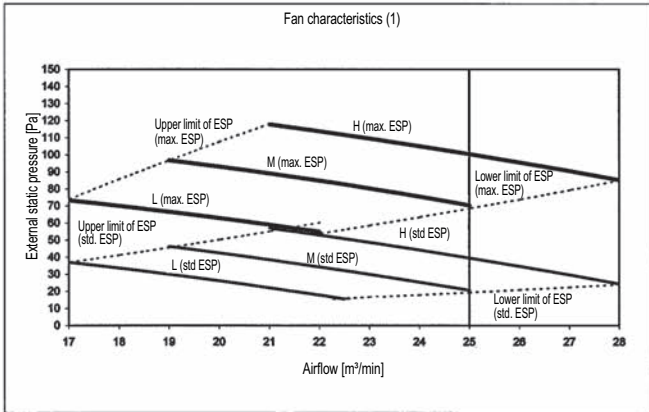
- 1 Fan characteristics as shown ar in "fan only" mode.
- 2 ESP: External static pressure

3TW31238-1

11 Fan characteristics

11 - 1 Fan Characteristics

FXSQ80P7

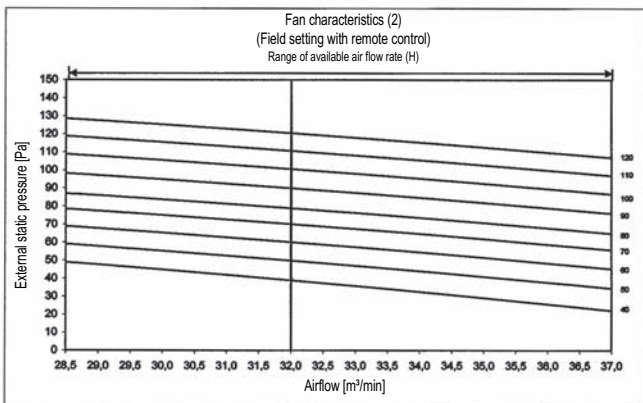
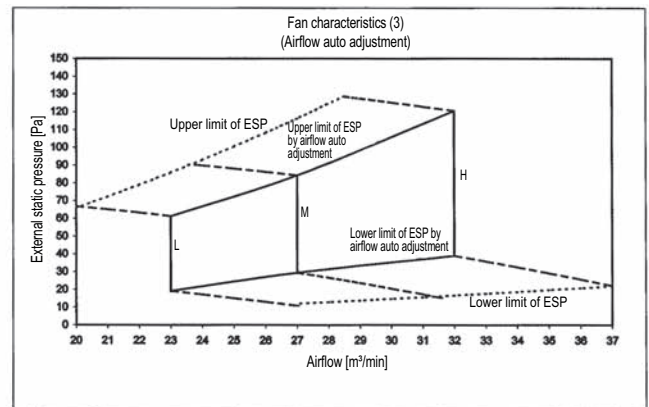
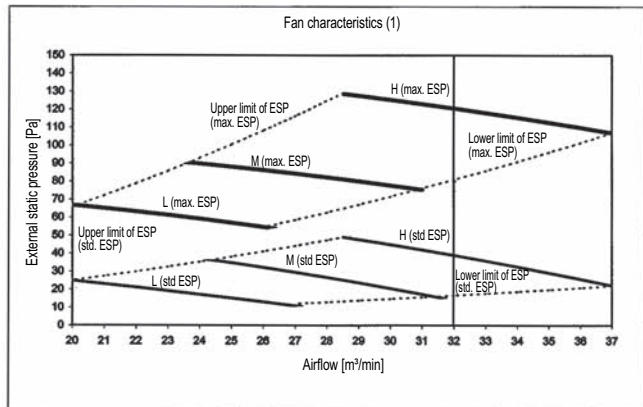


NOTES

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

3TW31248-1

FXSQ100P



NOTES

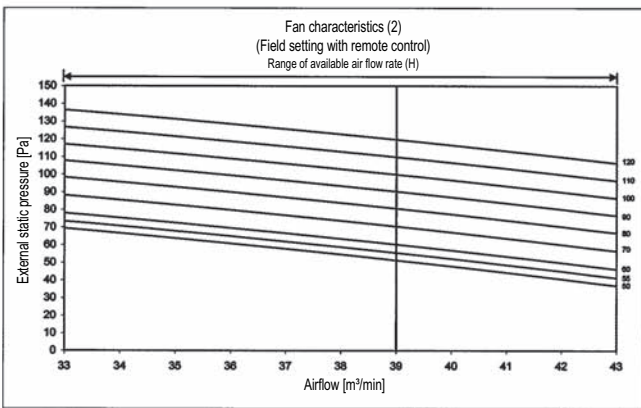
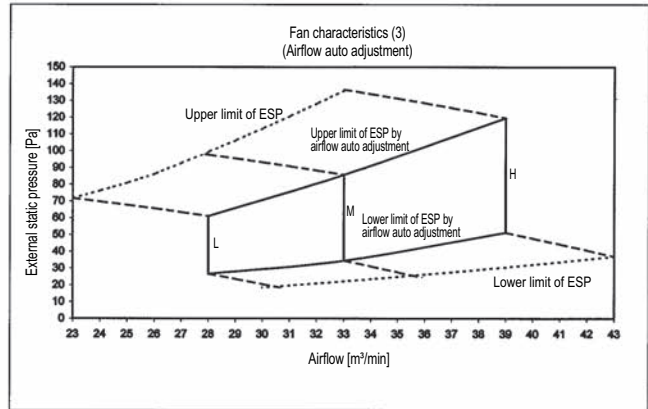
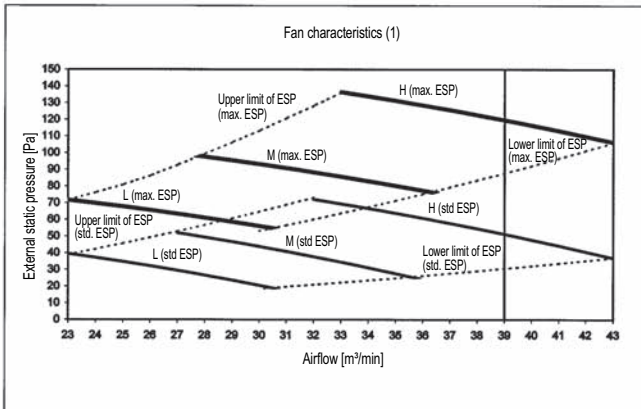
- 1 Fan characteristics as shown ar in "fan only" mode.
- 2 ESP: External static pressure

3TW31258-1

11 Fan characteristics

11 - 1 Fan Characteristics

FXSQ125P

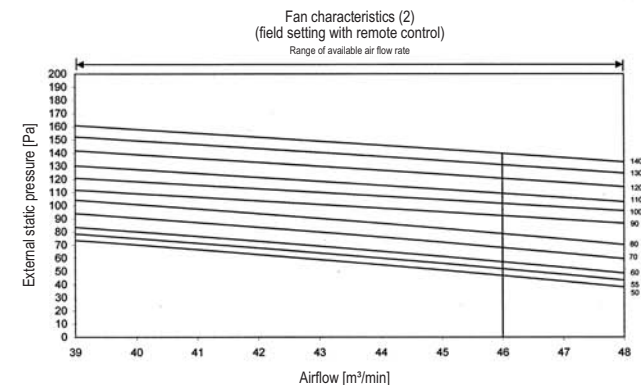
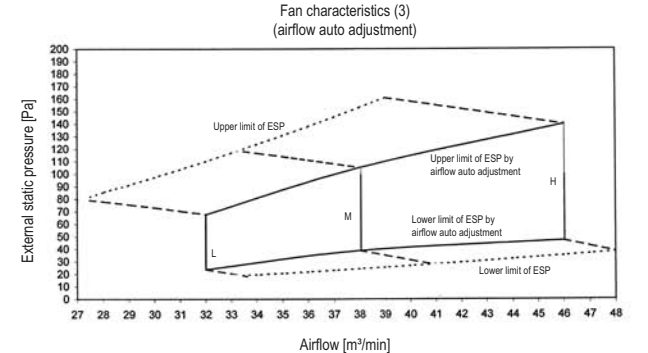
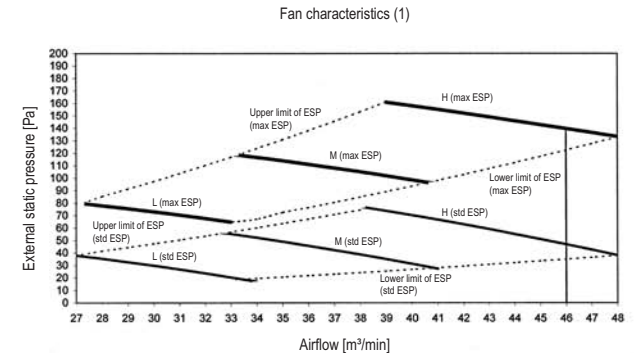


NOTES

- 1 Fan characteristics as shown are in "fan only" mode.
- 2 ESP: External static pressure

3TW31268-1

FXSQ140P



3TW32748-1

NOTES

- 1 Fan characteristics as shown are in "fan only" mode.
- 2 ESP: External static pressure.
- 3 — If the ESP is higher than 100 Pa, do not use airflow auto adjustment function: select the fan step manually, by field setting with remote control.

12 Installation

12 - 1 Installation Method

FXSQ-P

Rear Suction	Bottom Suction
<p style="text-align: center;">Ceiling return</p>	<p style="text-align: center;">Ceiling return</p>
<p style="text-align: center;">Installation with duct</p>	<p style="text-align: center;">Direct installation of inlet panel EKBYBSD is required for direct installation</p>

Wide variety of installation methods

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

Drain pump up height

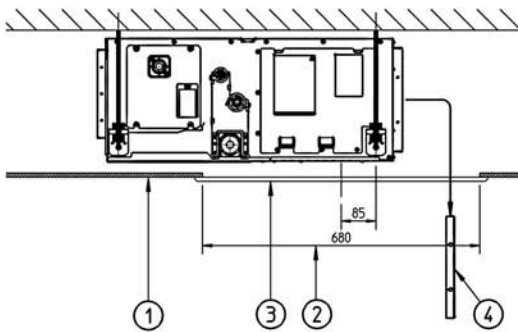
Easy modification from rear to bottom suction

3TW31183-1A

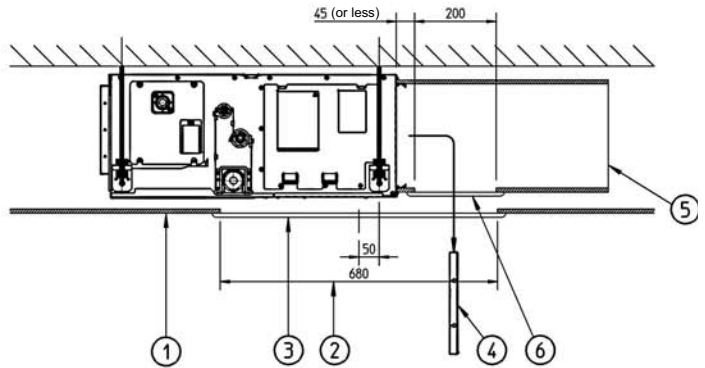
12 Installation

12 - 2 Filter Installation Method

FXSQ-P



Installation without air inlet duct

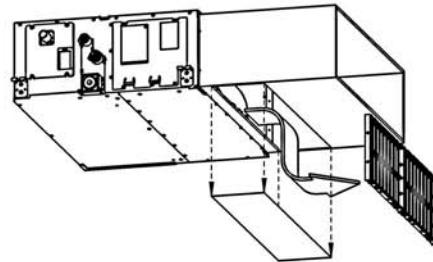


Installation with air inlet duct

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

NOTES

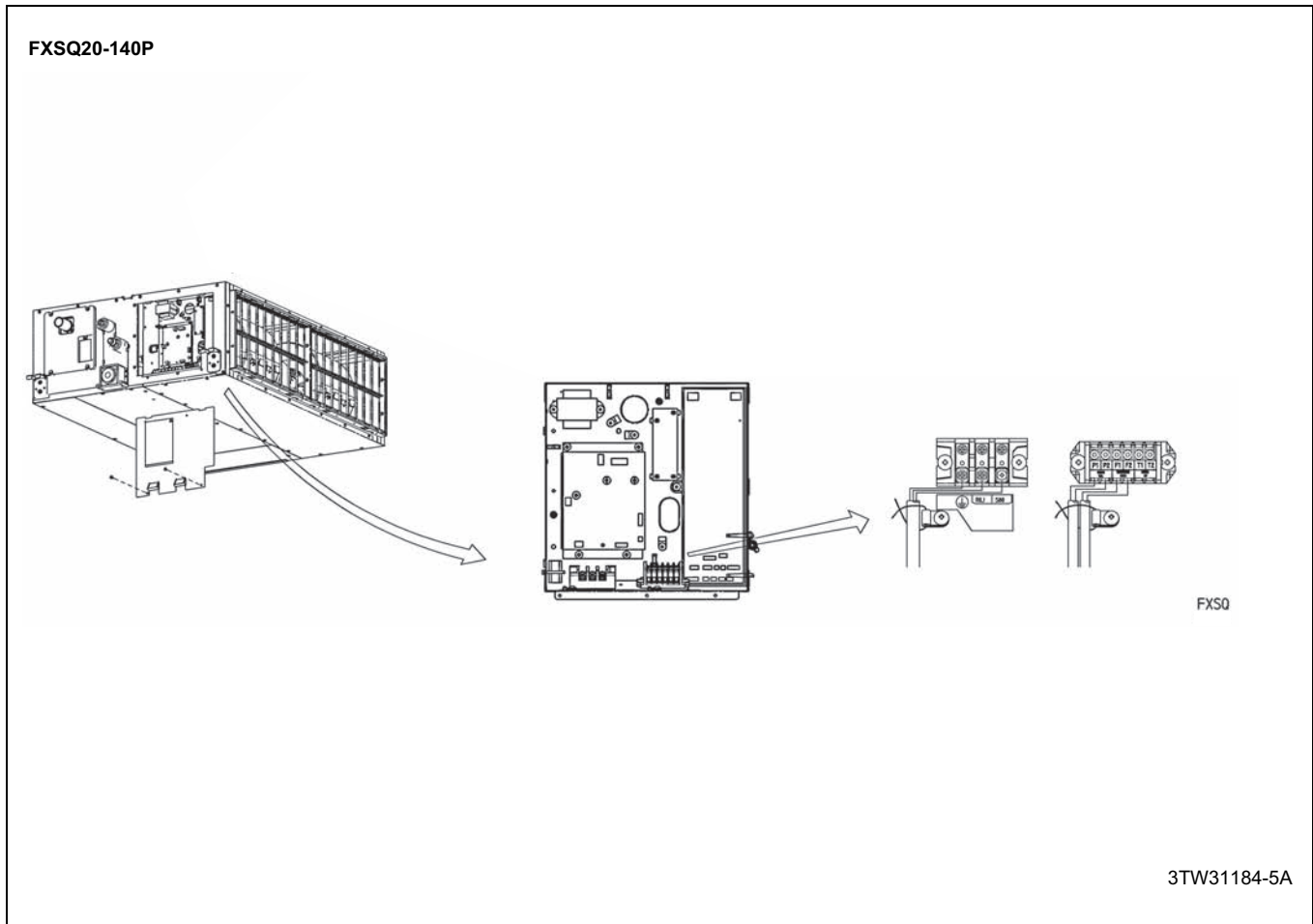
- 1 When installing the unit with rear suction, a service opening is necessary for the maintenance of the air filters.
- 2 When installing the unit with a suction duct. A service opening must be provided in the duct.



3TW31184-4

12 Installation

12 - 3 Switch Box Connection





Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



VRV® products are not within the scope of the Eurovent certification programme.

The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V..

Daikin products are distributed by: