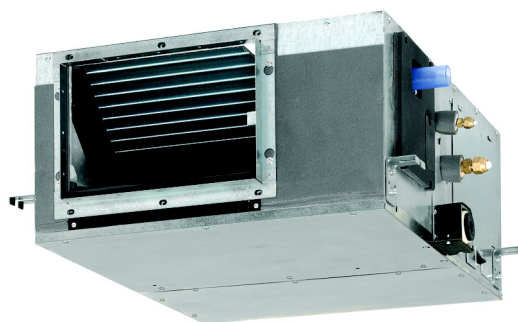




Air Conditioning

Technical Data

Concealed ceiling unit with inverter driven fan



EEDEN13-204

FXSQ-P

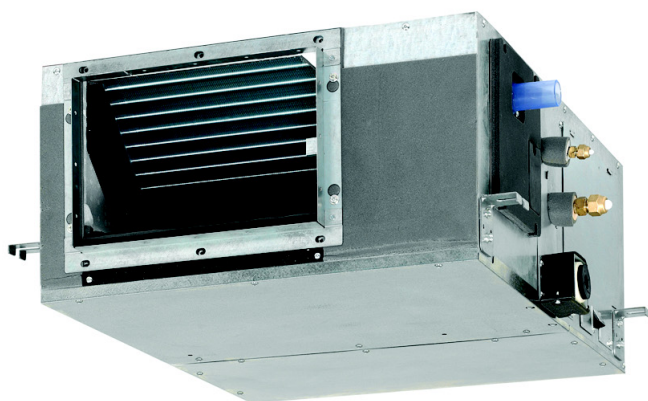
TABLE OF CONTENTS

FXSQ-P

1	Features	2
2	Specifications	3
	Technical Specifications	3
	Electrical Specifications	4
3	Electrical data	5
	Electrical Data	5
4	Safety device settings	6
	Safety Device Settings	6
5	Options	7
	Options	7
6	Capacity tables	8
	Cooling Capacity Tables	8
	Heating Capacity Tables	9
	Capacity Correction Factor	10
7	Dimensional drawings	12
	Dimensional Drawings	12
8	Centre of gravity	14
	Centre of Gravity	14
9	Piping diagrams	15
	Piping Diagrams	15
10	Wiring diagrams	16
	Wiring Diagrams - Single Phase	16
11	Sound data	18
	Sound Power Spectrum	18
	Sound Pressure Spectrum	20
12	Fan characteristics	22
	Fan Characteristics	22

1 Features

- Easy installation thanks to automatic air flow adjustment towards nominal air flow rate
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Up to 140Pa external static pressure (ESP) facilitates using flexible ducts of varying lengths: ideal for shops and medium size offices
- Low energy consumption thanks to DC inverter fans
- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- The air suction direction can be altered from rear to bottom suction
- Standard built-in drain pump increases reliability of the drain system



Inverter



Home leave operation



Fan only



Auto cooling-heating changeover



Whisper quiet



Fan speed steps



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Multi tenant



Drain pump kit

2 Specifications

2-1 Technical Specifications				FXSQ20 P	FXSQ25 P	FXSQ32 P	FXSQ40 P	FXSQ50 P	FXSQ63 P	FXSQ80 P	FXSQ10 0P	FXSQ12 5P	FXSQ14 0P	
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		m²	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	m³/min	9	9.5	16		19.5	25	32	39	46	
			Medium	m³/min	7.8	8.3	13.5		17.8	22.5	27.5	33.5	39	
			Low	m³/min	6.5	7	11		16	20	23	28	32	
		Heating	High	m³/min	9	9.5	16		19.5	25	32	39	46	
			Medium	m³/min	7.8	8.3	13.5		17.8	22.5	27.5	33.5	39	
			Low	m³/min	6.5	7	11		16	20	23	28	32	
	Air flow rate - 60Hz	Cooling	High	m³/min	9	9.5	16		19.5	25	32	39	46	
			Medium	m³/min	7.8	8.3	13.5		17.8	22.5	27.5	33.5	39	
			Low	m³/min	6.5	7	11		16	20	23	28	32	
		Heating	High	m³/min	9	9.5	16		19.5	25	32	39	46	
			Medium	m³/min	7.8	8.3	13.5		17.8	22.5	27.5	33.5	39	
			Low	m³/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		

2 Specifications

2-1 Technical Specifications					FXSQ20 P	FXSQ25 P	FXSQ32 P	FXSQ40 P	FXSQ50 P	FXSQ63 P	FXSQ80 P	FXSQ10 0P	FXSQ12 5P	FXSQ14 0P	
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											
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	Type				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	

2-2 Electrical Specifications			FXSQ20 P	FXSQ25 P	FXSQ32 P	FXSQ40 P	FXSQ50 P	FXSQ63 P	FXSQ80 P	FXSQ10 0P	FXSQ12 5P	FXSQ14 0P
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.

3 Electrical data

3 - 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%	0.5	16
FXSQ25						0.5	16
FXSQ32						0.5	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

4 Safety device settings

4 - 1 Safety Device Settings

4

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	145

3TW31189-2A

5 Options

5 - 1 Options

FXSQ-P

OPTIONS

Item	Type	FXSQ20, 25, 32P	FXSQ40, 50P	FXSQ63, 80P	FXSQ100, 125, 140P
Panel related	Decoration panel (*5)	BYBS32D	BYBS45D	BYBS71D	BYBS125D
Air inlet and air discharge outlet related	Air discharge adapter for round duct	KDAJ25K36A	KDAJ25K56A	KDAJ25K71A	KDAJ25K140A
Panel related	Decoration panel option	EKBYSD			

Operation control

Item	Type	FXSQ20, 25, 32P	FXSQ40, 50P	FXSQ63, 80P	FXSQ100, 125, 140P
Remote controller	Wired type	BRC1D528/BRC1E51A (*6)/BRC1E52A7 (*7)/BRC1E52B7 (*8)			
	Infrared type	HP	BRC4C65		
		CO	BRC4C66		
Simplified remote controller			BRC2C51		
Remote control for hotel use			BRC3A61		
Option PCB for external electrical heater, humidifier and/or hour meter (*1), (*2), (*3), (*4)			EKRP1B2A		
Adapter for wiring (Interlock for fresh air intake fan) (*4)			KRP1C64		
Wiring adapter for electrical appendices (1) (*2), (*4)			KRP2A51		
Wiring adapter for electrical appendices (2) (*4)			KRP4A51		
Remote sensor			KRC501-4B		
Central remote controller			DCS302CA51		
Electrical box with earth terminal (3 blocks)			KIB311A		
Unified ON/OFF controller			DCS301BA51		
Electrical box with earth terminal (2 blocks)			KIB212A		
Schedule timer			DST301BA51		
External adaptor for outdoor unit (installation on indoor unit) (*4)			DTA104A61		
PCB for multi tenant (*4)			DTA114A61		
Mounting plate for adapter PCB			KRP4A96		

(*1) Electrical heater and humidifier are field supply. These parts should not be installed inside the equipment. (Refer to installation manual EKRPTB2A).

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

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

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

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

(*6) Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian and Turkish.

(*7) Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian, Turkish and Polish.

(*8) Included languages are: English, German, Albanian, Bulgarian, Croatian, Czech, Hungarian, Romanian, Serbian, Slovak and Slovenian.

Contents of accessory bag

Description	Quantity
	FXSQ20, 25, 32, 40, 50, 63, 80, 100, 125, 140P
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

3TW31189-3B

3TW31189-3E

6 Capacity tables

6 - 1 Cooling Capacity Tables

FXSQ-P

Cooling Capacity

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

Unit size	Indoor air temp.													
	14.0 °CWB		16.0 °CWB		18.0 °CWB		19.0 °CWB		20.0 °CWB		22.0 °CWB		24.0 °CWB	
	20.0 °CDB		23.0 °CDB		26.0 °CDB		27.0 °CDB		28.0 °CDB		30.0 °CDB		32.0 °CDB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	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
25	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
32	2.4	2.1	2.9	2.4	3.4	2.8	3.6	2.8	3.6	2.7	3.7	2.7	3.8	2.6
40	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
50	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
63	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
80	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
100	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
125	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
140	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

3TW31182-1C

NOTES - OPMERKINGEN - REMARQUES - ANMERKUNGEN - NOTAS - NOTE - ΣΗΜΕΙΩΣΕΙΣ - NOTLAR - ПРИМЕЧАНИЯ

- This table is for the selection of indoor equipment.
 - Deze tabel is bedoeld voor het kiezen van de binnenunit.
 - Ce tableau concerne la sélection de l'équipement intérieur.
 - Diese Tabelle ist für die Auswahl der Innenanlagen.
 - Esta tabla es para seleccionar el equipo interior.
 - Usare questa tabella per la selezione delle apparecchiature interne.
 - Αυτός ο πίνακας προορίζεται για την επιλογή εσωτερικού εξοπλισμού.
 - Bu tablo iç ünite ekipmanlarının seçimine yöneliktir.
 - Эта таблица предназначена для выбора устанавливаемого в помещении оборудования.
- In the event that conditions differ due to the design requirements after system selection, actual operating ability of the indoor equipment will differ from that noted in the table because of changes in the outdoor air temperature and load factor.
 - Als nadat u het systeem hebt gekozen de voorwaarden afwijken van de ontwerpvereisten, dan zal het reële bedrijfsvermogen van de binnenunit afwijken van de in de tabel vermelde gegevens, wegens de afwijkende buitenluchttemperatuur en de belastingsfactor.
 - Si les exigences de conception après la sélection du système entraînent une modification des conditions, les capacités opérationnelles réelles de l'équipement intérieur diffèrent de celles indiquées dans le tableau en raison de la modification de la température de l'air extérieure et du facteur de charge.
 - Falls Bedingungen aufgrund der Konstruktionsanforderungen nach der Systemauswahl abweichen, dann weicht aufgrund der Änderungen der Außenlufttemperatur und des Lastfaktors die tatsächliche Betriebsfähigkeit der Innenanlage von der in der Tabelle aufgeführten ab.
 - En caso de que las condiciones difieran debido a los requisitos de diseño tras seleccionar el sistema, la capacidad de funcionamiento real del equipo interior diferirá de la que se muestra en la tabla debido a los cambios de la temperatura de aire exterior y al factor de carga.
 - Nel caso in cui intervenissero dei cambiamenti nelle condizioni dovuti a requisiti di progettazione successivi alla selezione del sistema, la capacità operativa effettiva delle apparecchiature interne sarà diversa da quella indicata in tabella a causa della diversa temperatura dell'aria esterna e del fattore di carico.
 - Στην περίπτωση που οι συνθήκες διαφέρουν λόγω των απαιτήσεων σχεδιασμού μετά την επιλογή συστήματος, η πραγματική δυνατότητα του εσωτερικού εξοπλισμού θα διαφέρει από την αναφερόμενη στον πίνακα, λόγω των αλλαγών στην εξωτερική θερμοκρασία αέρα και στο συντελεστή φορτίου.
 - Sistem seçiminin ardından tasarım gereklileri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipman için çalışma kapasitesi tablodaki belirtilenden farklı olacaktır.
 - В случае, если реальные условия отличаются от проектных условий работы, используемых при выборе системы, фактические характеристики устанавливаемого в помещении оборудования будут отличаться от указанных в таблице вследствие изменения температуры воздуха снаружи и показателя нагрузки.
- In this case, use the ability table for the indoor equipment selected and correct for the ratio of change in ability.
 - Gebruik in dat geval de vermogenstabel van de gekozen binneninstallatie en kies het juiste vermogen.
 - Le cas échéant, utiliser le tableau de capacité de l'équipement intérieur sélectionner et corriger le rapport de modification de capacité.
 - Verwenden Sie in diesem Fall die Fähigkeit für die ausgewählte Innenanlage und korrigieren Sie das Verhältnis der Änderung in der Fähigkeit.
 - En este caso, utilice la tabla de capacidades del equipo interior seleccionado y corrija la relación de cambio en capacidad.
 - In questo caso, usare la tabella delle capacità per le apparecchiature interne selezionate ed apportare le modifiche del caso in base alla percentuale di cambiamento di capacità.
 - Σε αυτή την περίπτωση χρησιμοποιήστε τον πίνακα δυνατοτήτων για τον επιλεγμένο εσωτερικό εξοπλισμό και διορθώστε για την αναλογία αλλαγής στη δυνατότητα.
 - Bu durumda, seçilen iç ekipman için kapasite tablosunu kullanın ve kapasitedeki değişim oranına göre düzeltme yapın.
 - В этом случае используйте таблицу характеристик выбранного устанавливаемого в помещении оборудования и внесите необходимую поправку на их изменение.

6 Capacity tables

6 - 2 Heating Capacity Tables

6

FXSQ-P

Heating Capacity

Unit size	Indoor air temp. °CDB					
	16.0	18.0	20.0	21.0	22.0	24.0
	kW	kW	kW	kW	kW	kW
20	2.6	2.6	2.5	2.4	2.3	2.2
25	3.4	3.4	3.2	3.1	3.0	2.8
32	4.2	4.2	4.0	3.9	3.7	3.5
40	5.2	5.2	5.0	4.8	4.7	4.4
50	6.6	6.6	6.3	6.1	5.9	5.5
63	8.4	8.4	8.0	7.7	7.5	7.0
80	10.5	10.5	10.0	9.7	9.4	8.7
100	13.1	13.1	12.5	12.1	11.7	10.9
125	16.8	16.8	16.0	15.5	15.0	13.9
140	18.9	18.9	18.0	17.4	16.8	15.7

3TW25512-2B

NOTES - OPMERKINGEN - REMARQUES - ANMERKUNGEN - NOTAS - NOTE - ΣΗΜΕΙΩΣΕΙΣ - NOTLAR - ПРИМЕЧАНИЯ

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- In the event that conditions differ due to the design requirements after system selection, actual operating ability of the indoor equipment will differ from that noted in the table because of changes in the outdoor air temperature and load factor.
 - Als nadat u het systeem hebt gekozen de voorwaarden afwijken van de ontwerpvereisten, dan zal het reële bedrijfsvermogen van de binnenunit afwijken van de in de tabel vermelde gegevens, wegens de afwijkende buitenluchttemperatuur en de belastingsfactor.
 - Si les exigences de conception après la sélection du système entraînent une modification des conditions, les capacités opérationnelles réelles de l'équipement intérieur diffèrent de celles indiquées dans le tableau en raison de la modification de la température de l'air extérieure et du facteur de charge.
 - Falls Bedingungen aufgrund der Konstruktionsanforderungen nach der Systemauswahl abweichen, dann weicht aufgrund der Änderungen der Außenlufttemperatur und des Lastfaktors die tatsächliche Betriebsfähigkeit der Innenanlage von der in der Tabelle aufgeführten ab.
 - En caso de que las condiciones difieran debido a los requisitos de diseño tras seleccionar el sistema, la capacidad de funcionamiento real del equipo interior diferirá de la que se muestra en la tabla debido a los cambios de la temperatura de aire exterior y al factor de carga.
 - Nel caso in cui intervenissero dei cambiamenti nelle condizioni dovuti a requisiti di progettazione successivi alla selezione del sistema, la capacità operativa effettiva delle apparecchiature interne sarà diversa da quella indicata in tabella a causa della diversa temperatura dell'aria esterna e del fattore di carico.
 - Στην περίπτωση που οι συνθήκες διαφέρουν λόγω των απαιτήσεων σχεδιασμού μετά την επιλογή συστήματος, η πραγματική δυνατότητα του εσωτερικού εξοπλισμού θα διαφέρει από την αναφερόμενη στον πίνακα, λόγω των αλλαγών στην εξωτερική θερμοκρασία αέρα και στο συντελεστή φορτίου.
 - Sistem seçiminin sonra tasarım gerekleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipmanın gerçek çalışma kapasitesi tablodaki belirtilenden farklı olacaktır.
 - В случае, если реальные условия отличаются от проектных условий работы, используемых при выборе системы, фактические характеристики устанавливаемого в помещении оборудования будут отличаться от указанных в таблице вследствие изменения температуры воздуха снаружи и показателя нагрузки.
- In this case, use the ability table for the indoor equipment selected and correct for the ratio of change in ability.
 - Gebruik in dat geval de vermogenstabel van de gekozen binneninstallatie en kies het juiste vermogen.
 - Le cas échéant, utiliser le tableau de capacité de l'équipement intérieur sélectionner et corriger le rapport de modification de capacité.
 - Verwenden Sie in diesem Fall die Fähigkeit für die ausgewählte Innenanlage und korrigieren Sie das Verhältnis der Änderung in der Fähigkeit.
 - En este caso, utilice la tabla de capacidades del equipo interior seleccionado y corrija la relación de cambio en capacidad.
 - In questo caso, usare la tabella delle capacità per le apparecchiature interne selezionate ed apportare le modifiche del caso in base alla percentuale di cambiamento di capacità.
 - Σε αυτή την περίπτωση χρησιμοποιήστε τον πίνακα δυνατοτήτων για τον επιλεγμένο εσωτερικό εξοπλισμό και διορθώστε για την αναλογία αλλαγής στη δυνατότητα.
 - Bu durumda, seçilen iç ekipman için kapasite tablosunu kullanın ve kapasitedeki değişim oranına göre düzeltilme yapın.
 - В этом случае используйте таблицу характеристик выбранного устанавливаемого в помещении оборудования и внесите необходимую поправку на их изменение.

6 Capacity tables

6 - 3 Capacity Correction Factor

FXSQ-P

		Capacity correction factor T _e = 9°C							
		Indoor air temperature	14.0 °CWB	16.0 °CWB	18.0 °CWB	19.0 °CWB	20.0 °CWB	22.0 °CWB	24.0 °CWB
			20.0 °CDB	23.0 °CDB	26.0 °CDB	27.0 °CDB	28.0 °CDB	30.0 °CDB	32.0 °CDB
FXSQ20P	TC		0.697	0.694	0.754	0.776	0.795	0.827	0.854
	SHF		1.112	1.173	1.117	1.093	1.075	1.053	1.057
FXSQ25P	TC		0.684	0.705	0.764	0.790	0.812	0.837	0.859
	SHF		1.130	1.159	1.107	1.084	1.067	1.051	1.054
FXSQ32P	TC		0.686	0.706	0.766	0.792	0.814	0.837	0.859
	SHF		1.126	1.159	1.106	1.083	1.066	1.051	1.054
FXSQ40P	TC		0.689	0.714	0.781	0.801	0.816	0.840	0.863
	SHF		1.124	1.151	1.098	1.080	1.067	1.051	1.050
FXSQ50P	TC		0.689	0.714	0.781	0.801	0.816	0.840	0.863
	SHF		1.124	1.151	1.098	1.080	1.067	1.051	1.050
FXSQ63P	TC		0.677	0.708	0.766	0.791	0.811	0.838	0.861
	SHF		1.145	1.157	1.105	1.083	1.068	1.054	1.051
FXSQ80P	TC		0.686	0.710	0.775	0.799	0.815	0.839	0.861
	SHF		1.128	1.154	1.101	1.080	1.067	1.050	1.052
FXSQ100P	TC		0.679	0.707	0.766	0.792	0.812	0.838	0.861
	SHF		1.140	1.157	1.106	1.083	1.067	1.053	1.054
FXSQ125P	TC		0.687	0.709	0.773	0.799	0.815	0.838	0.861
	SHF		1.126	1.155	1.102	1.080	1.067	1.051	1.052
FXSQ140P	TC		0.693	0.713	0.780	0.799	0.815	0.838	0.861
	SHF		1.115	1.155	1.101	1.083	1.069	1.053	1.058

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NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - Примечания - NOTLAR

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- Capacity : Total capacity for High sensible mode = Total capacity for normal capacity table X TC ratio.
Leistung: Gesamtleistung für hochfühlbaren Leistungsmodus = Gesamtleistung für normale Leistungstabelle x GL-Verhältnis.
Απόδοση: Συνολική απόδοση για τη λειτουργία υψηλής ευαισθησίας = Συνολική απόδοση για τον πίνακα κανονικών αποδόσεων X αναλογία TC
Capacidad: Capacidad total para el modo de alta sensibilidad = Capacidad total para la tabla de capacidad normal X relación TC.
Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.
Capacità: Capacità totale per modalità ad alta capacità sensibile = Capacità totale per tabella capacità normali X rapporto SHF.
Capaciteit: totale capaciteit in modus grote ("High") gevoeligheid = totale capaciteit uit de tabel met normale capaciteiten x TC-ratio.
Производительность: Общая производительность для режима с высоким коэфф. ошутимого охлаждения = Общая производительность для нормального режима, таблица X коэфф. TC.
Kapasite: Yüksek algı modu için toplam kapasite = Normal kapasite tablosundaki toplam kapasite değeri x TC oranı.
- Sensible capacity (SHF): SHF for High sensible mode = SHF for normal capacity table X SHF ratio .
Fühlbare Leistung (SHF): SHF für hochfühlbaren Leistungsmodus = SHF für normale Leistungstabelle x SHF-Verhältnis.
Αισθητή απόδοση (SHF): SHF για λειτουργία υψηλής ευαισθησίας = SHF για πίνακα κανονικών αποδόσεων X αναλογία SHF .

Capacidad sensible (FCS): SHF para el modo de alta sensibilidad = SHF para la tabla de capacidad normal X relación SHF.
Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.
Capacità sensibile (SHF): SHF per modalità ad alta capacità sensibile = SHF per tabella capacità normali X rapporto SHF.
Gevoeligheidsfactor (WGF (warmtegevoelsfactor) – in het Engels "SHF"): WGF voor de modus grote ("High") gevoeligheid = WGF uit de tabel met normale capaciteiten x WGF-ratio.
Ощутимая производительность (SHF): SHF для режима с высоким коэфф. ошутимого охлаждения = SHF для нормального режима, таблица X коэфф. SHF.
Algılanabilir kapasite (SHF): Yüksek algı modu için SHF = Normal kapasite tablosundaki SHF değeri x SHF oranı.

- In case of SHF is bigger than 1, SHF is "1"
Für den Fall, dass SHF größer als 1 ist, wird SHF als "1" angenommen.
Σε περίπτωση που το SHF είναι μεγαλύτερο από 1, το SHF είναι "1"
En caso de que SHF sea superior a 1, SHF equivale a "1"
Si FCS est supérieur à 1, utilisez « 1 » pour FCS.
Qualora il valore SHF sia maggiore di 1, SHF è "1"
Indien WGF groter is dan 1, neem dan "1" voor WGF.
Если SHF больше 1, то SHF равен "1"
SHF değeri 1'den büyükse, SHF değeri "1" kabul edilmelidir

6 Capacity tables

6 - 3 Capacity Correction Factor

6

FXSQ-P

		Capacity correction factor Te = 11°C						
	Indoor air temperature	14.0 °CWB	16.0 °CWB	18.0 °CWB	19.0 °CWB	20.0 °CWB	22.0 °CWB	24.0 °CWB
		20.0 °CDB	23.0 °CDB	26.0 °CDB	27.0 °CDB	28.0 °CDB	30.0 °CDB	32.0 °CDB
FXSQ20P	TC	0.558	0.573	0.582	0.619	0.651	0.704	0.747
	SHF	1.112	1.202	1.269	1.211	1.167	1.111	1.099
FXSQ25P	TC	0.548	0.569	0.597	0.637	0.671	0.724	0.759
	SHF	1.130	1.216	1.246	1.191	1.151	1.102	1.093
FXSQ32P	TC	0.548	0.571	0.599	0.639	0.673	0.724	0.759
	SHF	1.126	1.211	1.244	1.190	1.149	1.102	1.093
FXSQ40P	TC	0.551	0.578	0.615	0.654	0.686	0.729	0.764
	SHF	1.124	1.205	1.229	1.178	1.143	1.102	1.089
FXSQ50P	TC	0.551	0.578	0.615	0.654	0.686	0.729	0.764
	SHF	1.124	1.205	1.229	1.178	1.143	1.102	1.089
FXSQ63P	TC	0.545	0.564	0.600	0.639	0.672	0.725	0.762
	SHF	1.145	1.231	1.242	1.188	1.150	1.106	1.091
FXSQ80P	TC	0.548	0.573	0.608	0.648	0.681	0.727	0.762
	SHF	1.128	1.211	1.235	1.183	1.145	1.102	1.091
FXSQ100P	TC	0.546	0.566	0.600	0.639	0.673	0.725	0.761
	SHF	1.140	1.226	1.243	1.188	1.150	1.105	1.092
FXSQ125P	TC	0.548	0.573	0.607	0.646	0.680	0.726	0.761
	SHF	1.126	1.210	1.237	1.184	1.145	1.102	1.091
FXSQ140P	TC	0.552	0.582	0.613	0.653	0.684	0.727	0.761
	SHF	1.115	1.196	1.236	1.184	1.147	1.106	1.099

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NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - Примечания - NOTLAR

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- Capacity : Total capacity for High sensible mode = Total capacity for normal capacity table X TC ratio.

Leistung: Gesamtleistung für hochfühlbaren Leistungsmodus = Gesamtleistung für normale Leistungstabelle x GL-Verhältnis.

Απόδοση: Συνολική απόδοση για τη λειτουργία υψηλής ευαισθησίας = Συνολική απόδοση για τον πίνακα κανονικών αποδόσεων X αναλογία TC

Capacidad: Capacidad total para el modo de alta sensibilidad = Capacidad total para la tabla de capacidad normal X relación TC.

Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.

Capacità: Capacità totale per modalità ad alta capacità sensibile = Capacità totale per tabella capacità normali X rapporto SHF.

Capaciteit: totale capaciteit in modus grote ("High") gevoeligheid = totale capaciteit uit de tabel met normale capaciteiten x TC-ratio.

Производительность: Общая производительность для режима с высоким коэфф. ооутимого охлаждения = Общая производительность для нормального режима, таблица X коэфф. TC.

Kapasite: Yüksek algı modu için toplam kapasite = Normal kapasite tablosundaki toplam kapasite değeri x TC oranı.

- Sensible capacity (SHF): SHF for High sensible mode = SHF for normal capacity table X SHF ratio .

Fühlbare Leistung (SHF): SHF für hochfühlbaren Leistungsmodus = SHF für normale Leistungstabelle x SHF-Verhältnis.

Αισθητή απόδοση (SHF): SHF για λειτουργία υψηλής ευαισθησίας = SHF για πίνακα κανονικών αποδόσεων X αναλογία SHF .

Capacidad sensible (FCS): SHF para el modo de alta sensibilidad = SHF para la tabla de capacidad normal X relación SHF.

Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.

Capacità sensibile (SHF): SHF per modalità ad alta capacità sensibile = SHF per tabella capacità normali X rapporto SHF.

Gevoeligheidscapaciteit (WGF (warmtegevoelsfactor)– in het Engels "SHF"): WGF voor de modus grote ("High") gevoeligheid = WGF uit de tabel met normale capaciteiten x WGF-ratio.

Оощутимая производительность (SHF): SHF для режима с высоким коэфф.

ощутимого охлаждения = SHF для нормального режима, таблица X коэфф. SHF.

Algılanabilir kapasite (SHF): Yüksek algı modu için SHF = Normal kapasite tablosundaki SHF değeri x SHF oranı.

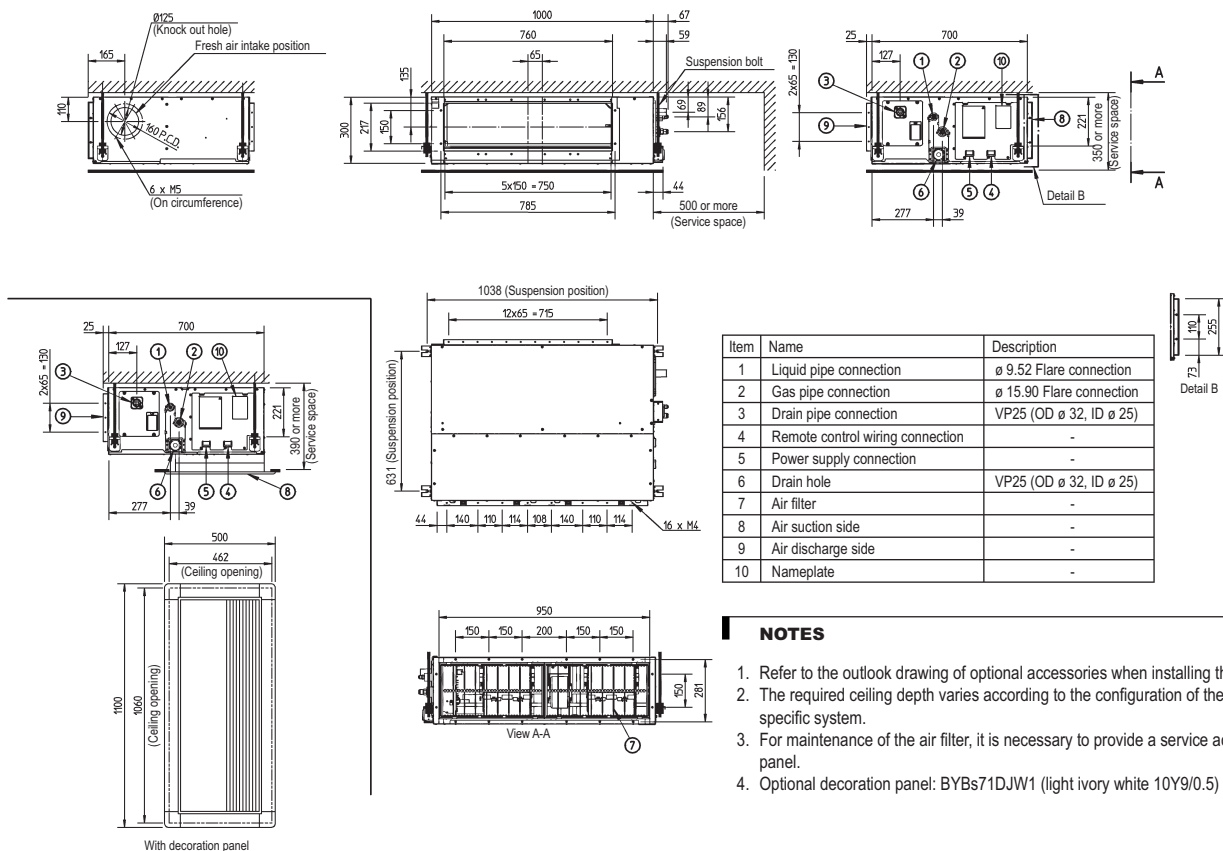
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SHF değeri 1'den büyükse, SHF değeri "1" kabul edilmelidir

7 - 1 Dimensional Drawings

7 Dimensional drawings

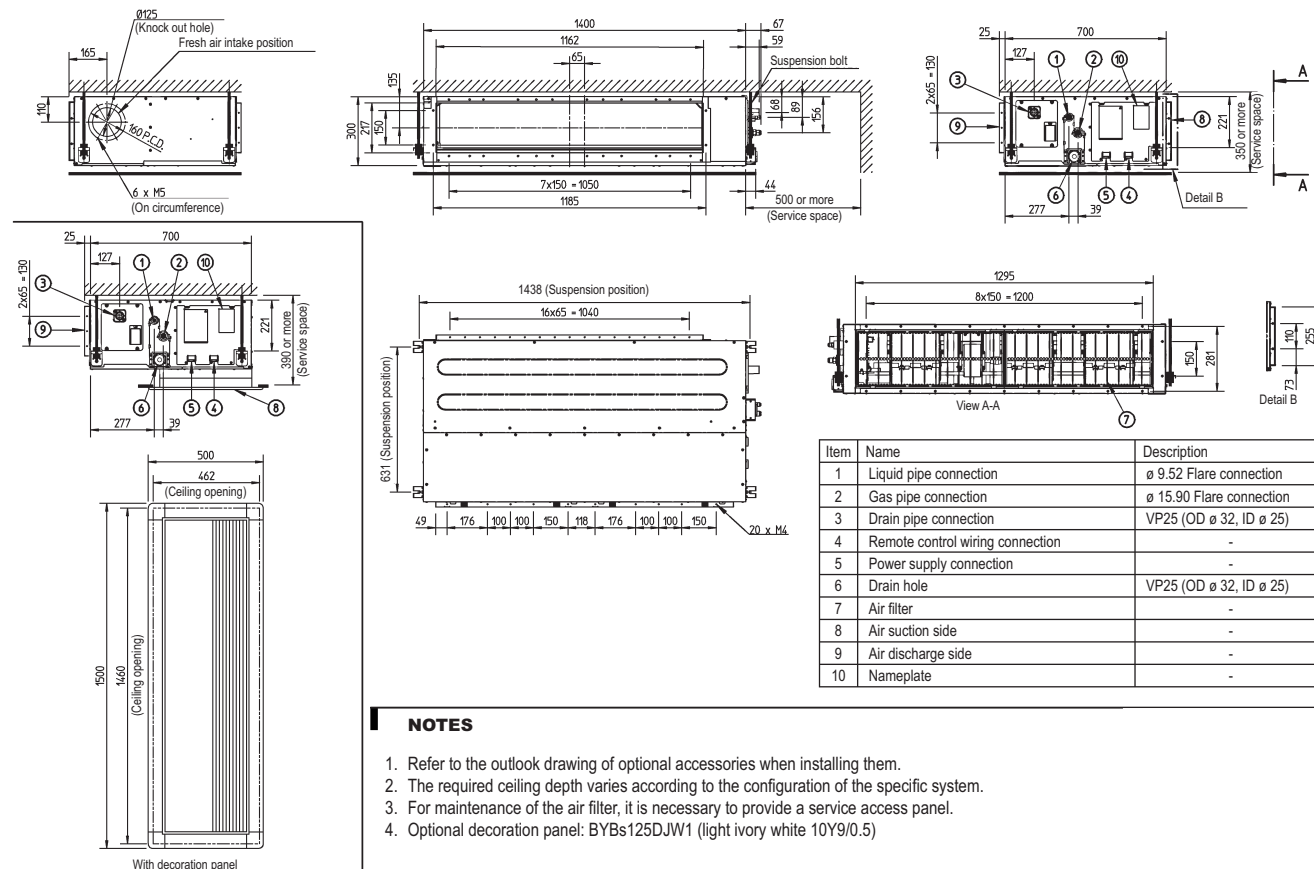
7 - 1 Dimensional Drawings

FXSQ63-80P



3TW31234-1B

FXSQ100-140P

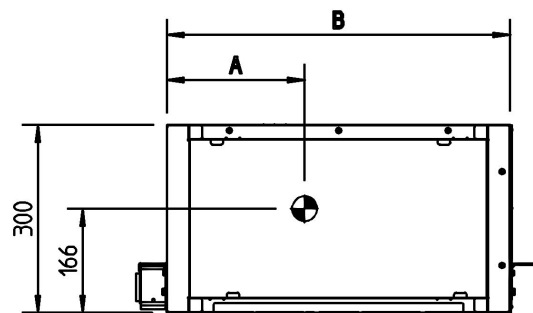
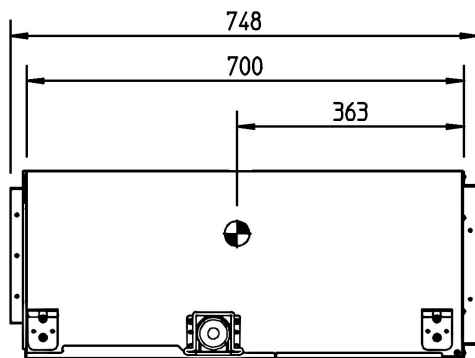


3TW31254-1B

8 Centre of gravity

8 - 1 Centre of Gravity

FXSQ-P



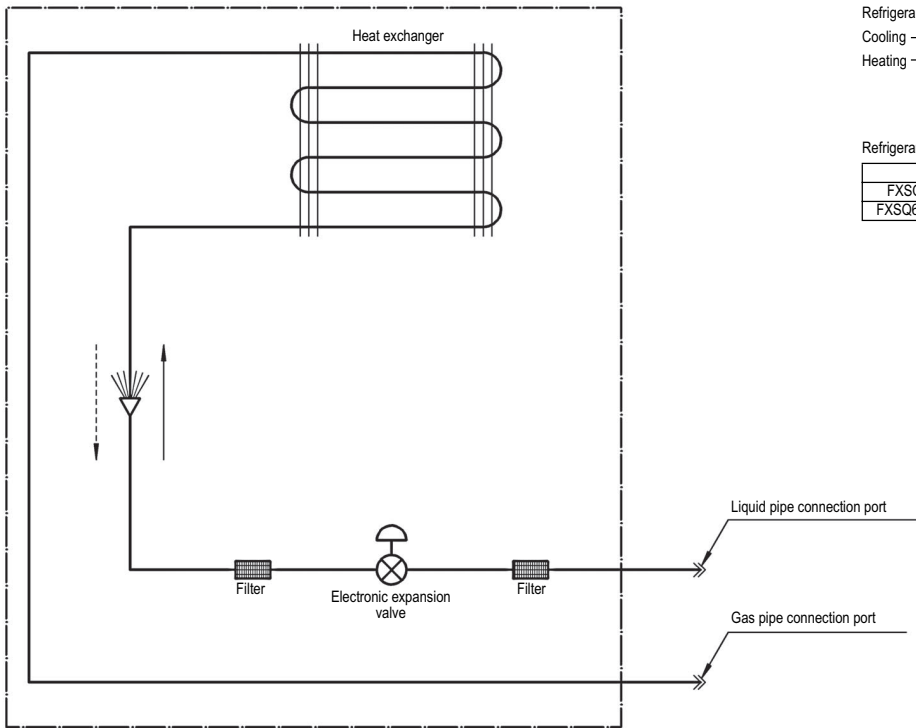
Model	A	B
FXSQ20~32	220	550
FXSQ40,50	283	700
FXSQ63,80	441	1000
FXSQ100,125,140	619	1400

4TW31189-1B

9 Piping diagrams

9 - 1 Piping Diagrams

FXSQ20-140P



Refrigerant flow
Cooling —→
Heating - -→

Refrigerant pipe connection port diameters

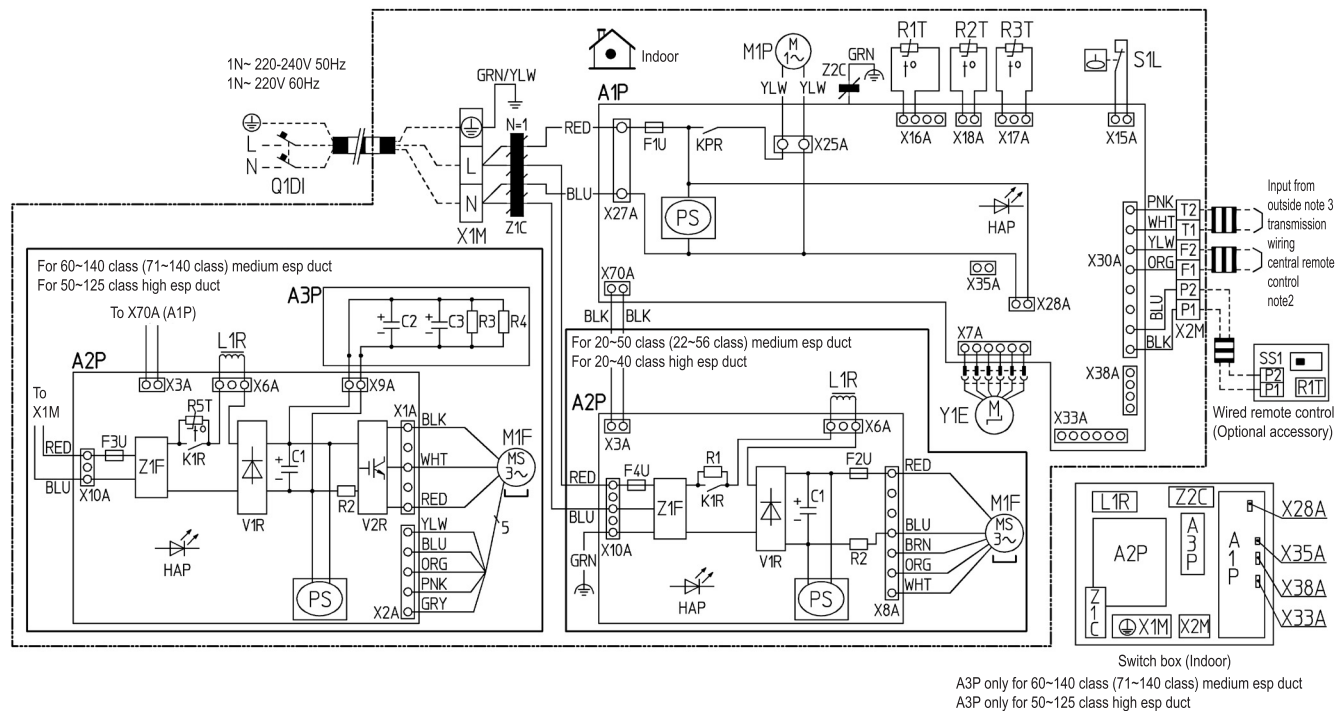
Model	Gas	Liquid
FXSQ20,25,32,40,50	Ø12.70	Ø6.35
FXSQ63,80,100,125,140	Ø15.90	Ø9.52

3TW31185-1A

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXSQ20-50P



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

: Field wiring
 : Live
 : 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

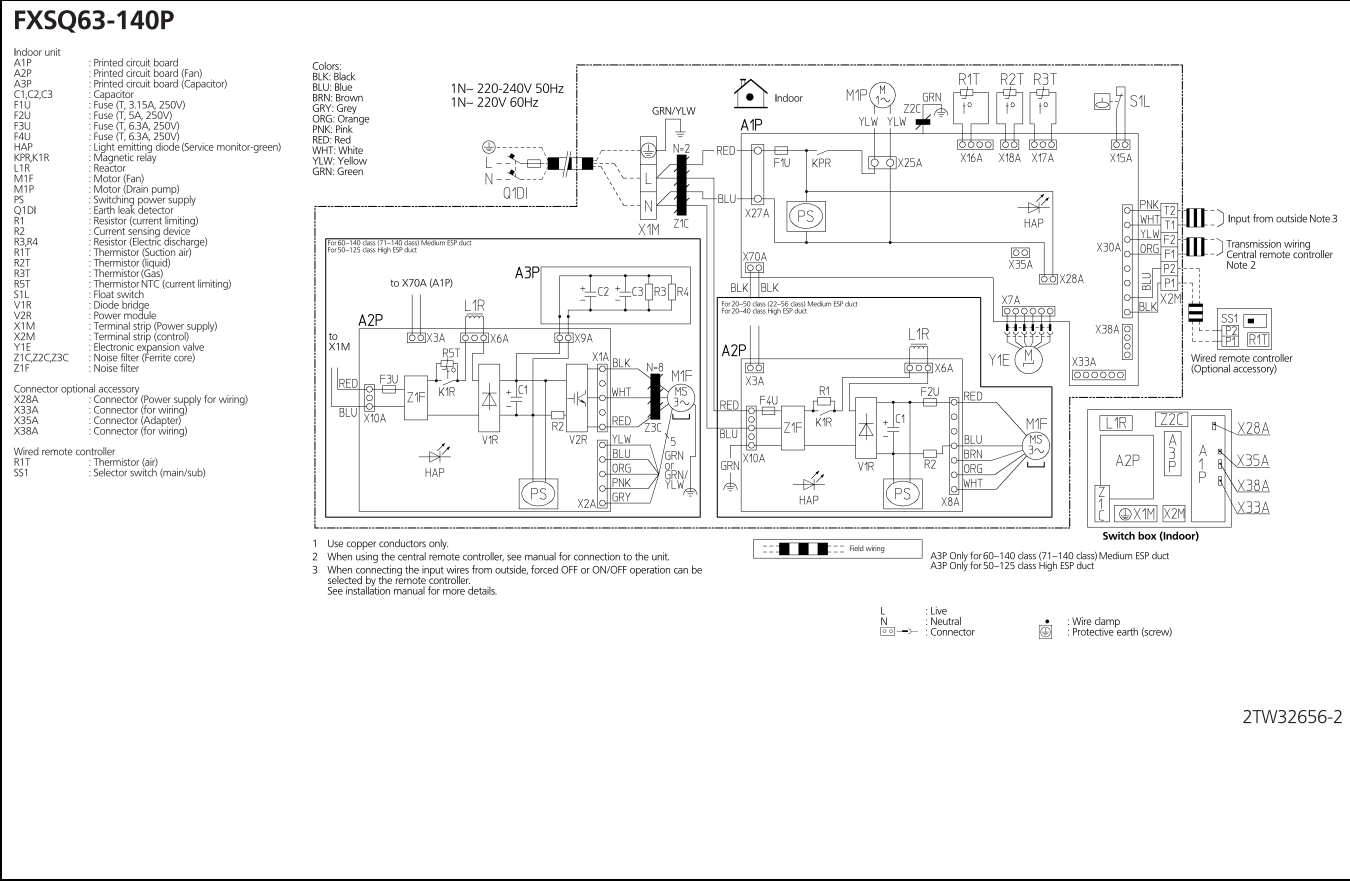
2TW32656-1

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 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase



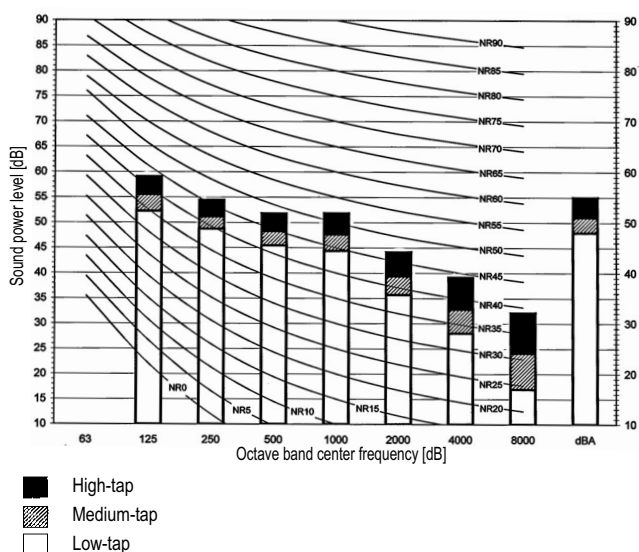
2TW32656-2

11 Sound data

11 - 1 Sound Power Spectrum

11

FXSQ20-25P

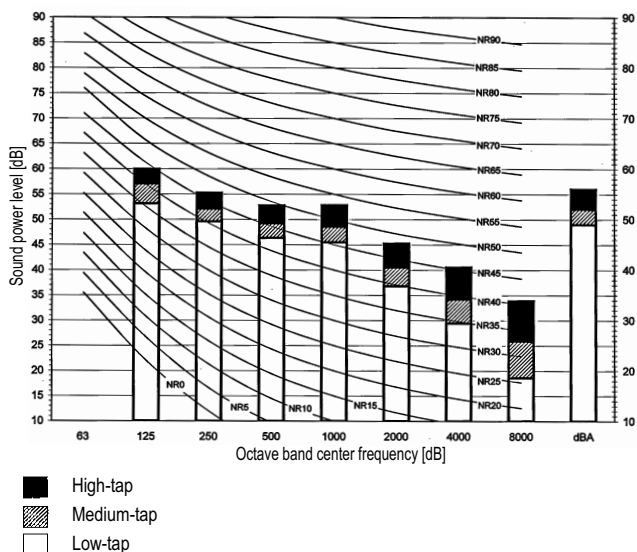


3TW31187-1

Notes

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

FXSQ32P

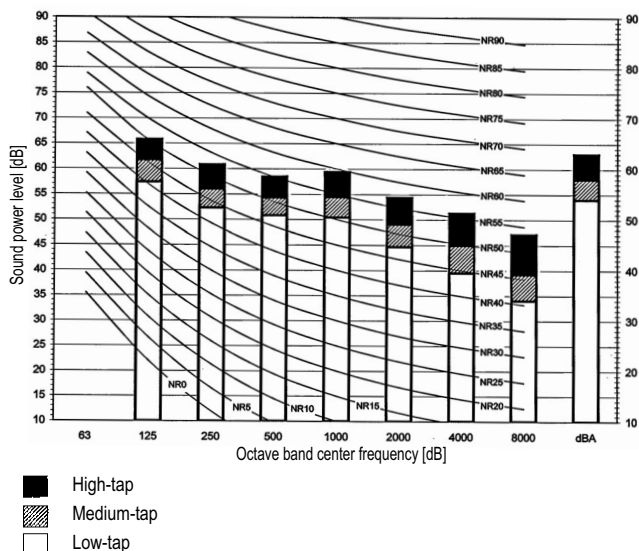


3TW31207-1

Notes

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

FXSQ40-50P

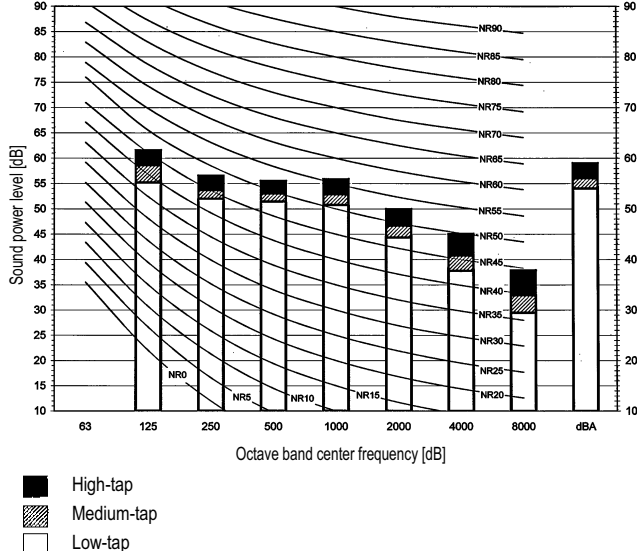


3TW31217-1

Notes

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

FXSQ63P



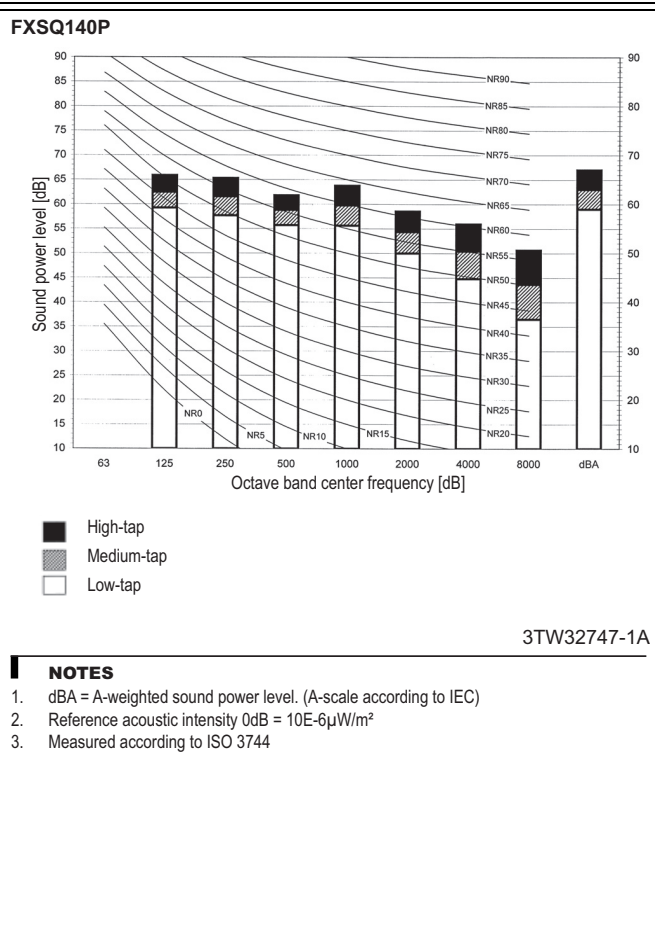
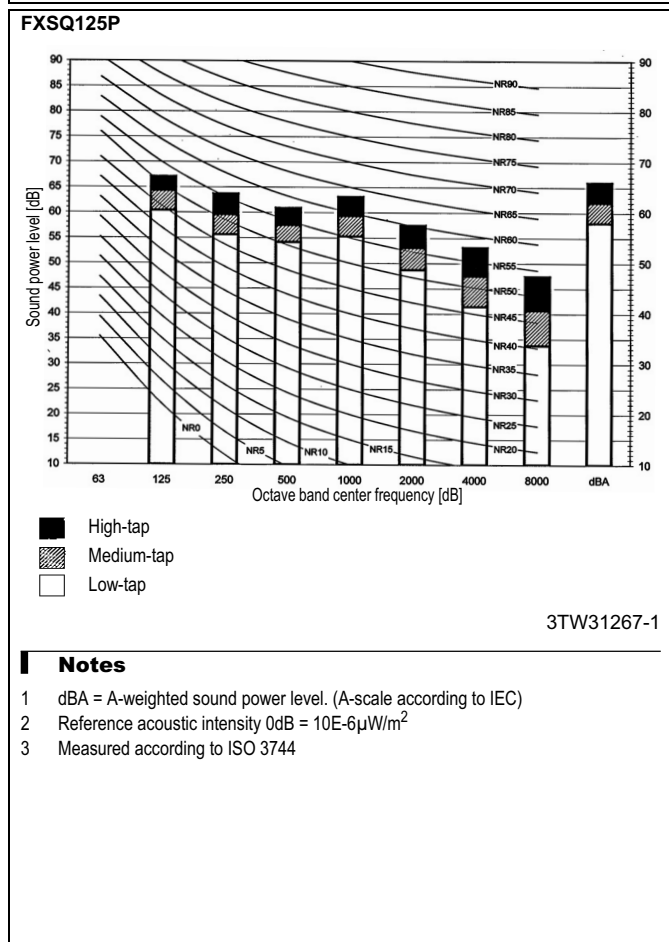
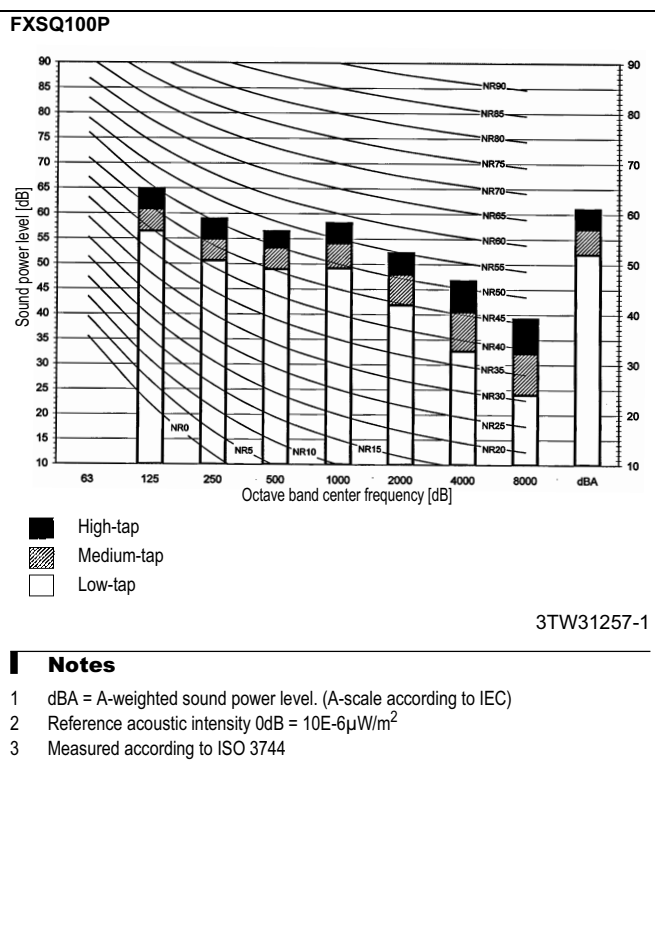
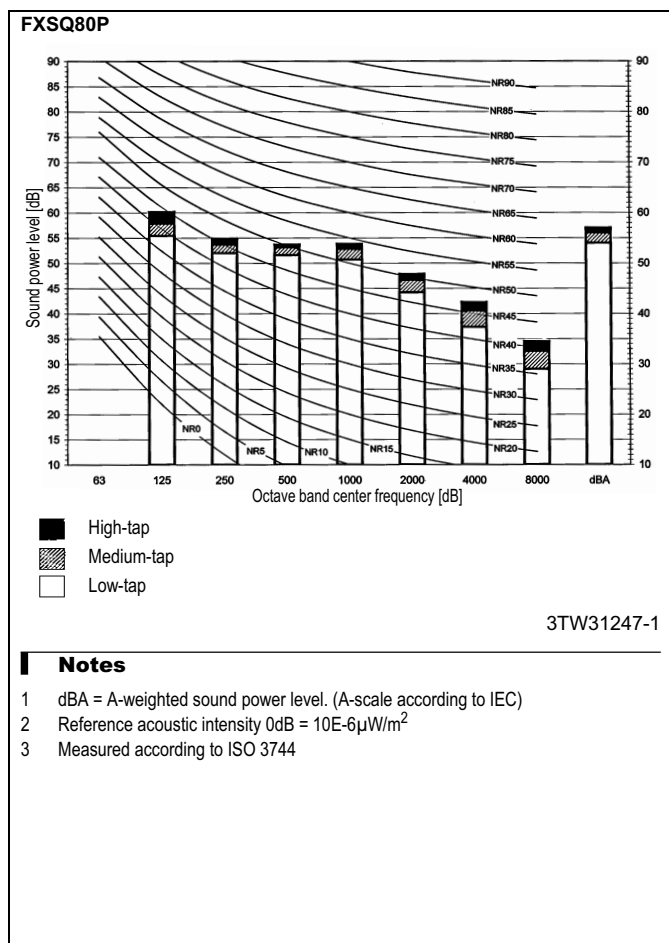
3TW31237-1

Notes

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

11 Sound data

11 - 1 Sound Power Spectrum

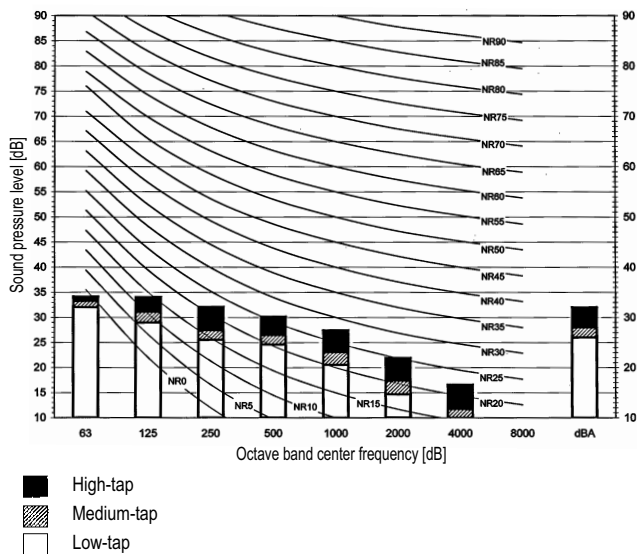


11 Sound data

11 - 2 Sound Pressure Spectrum

11

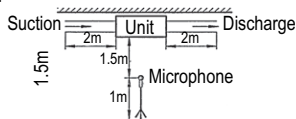
FXSQ20-25P



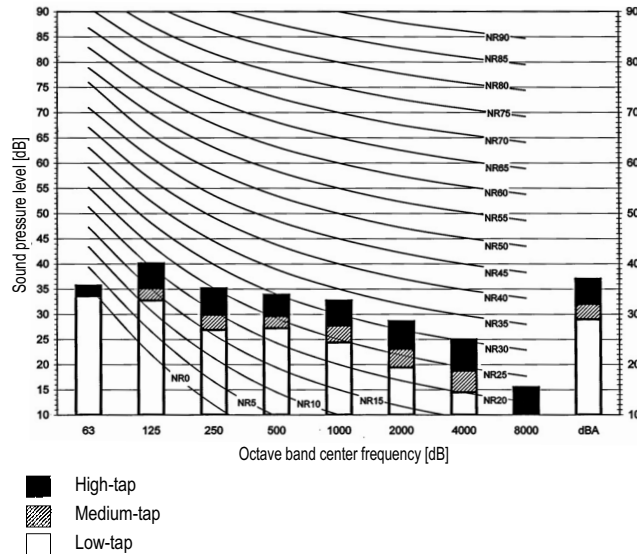
3TW31187-2

Notes

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



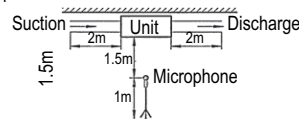
FXSQ32P



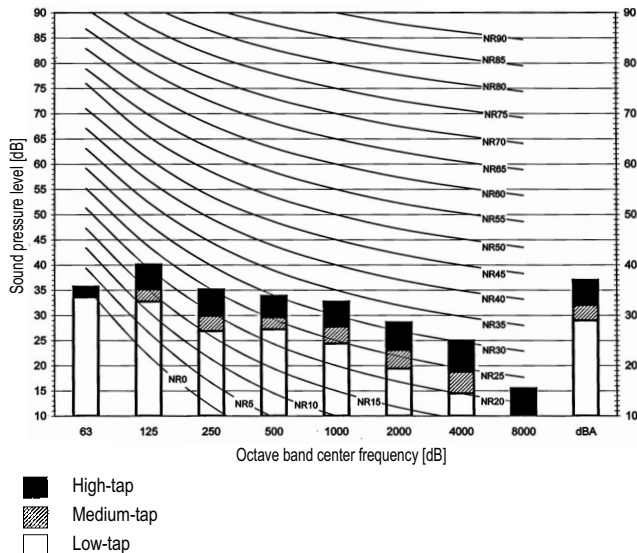
3TW31207-2

Notes

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



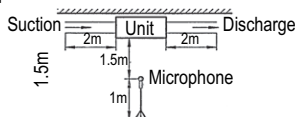
FXSQ40-50P



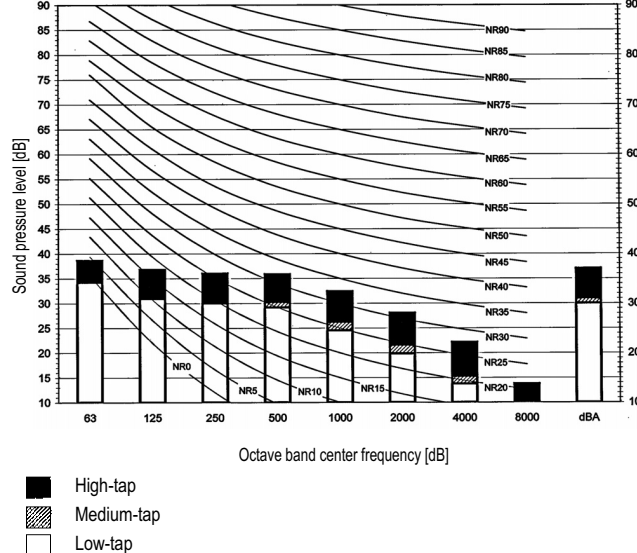
3TW31217-2

Notes

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



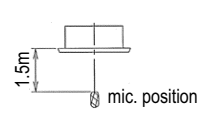
FXSQ63P



3TW31237-2

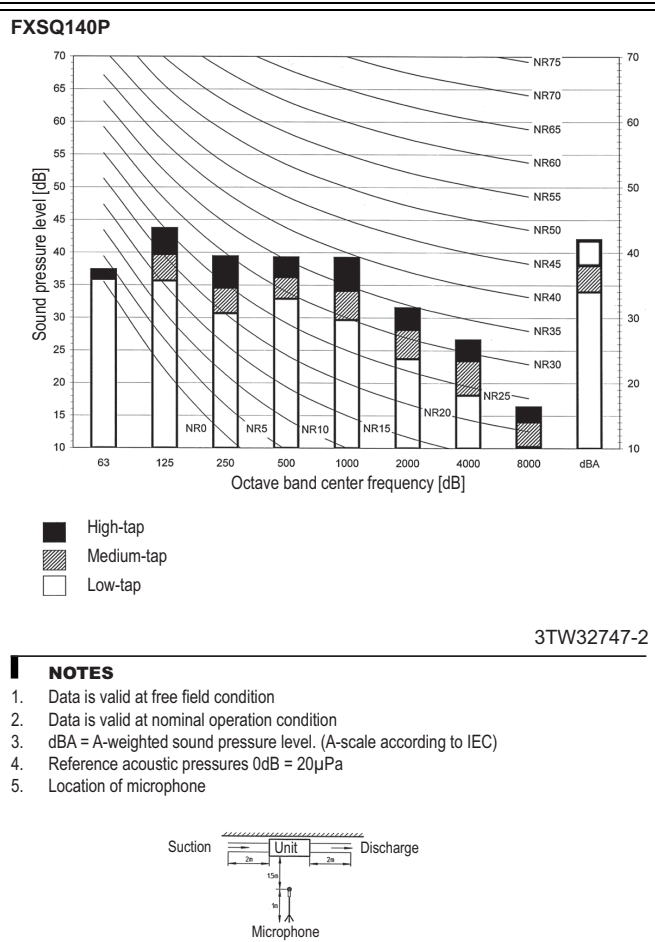
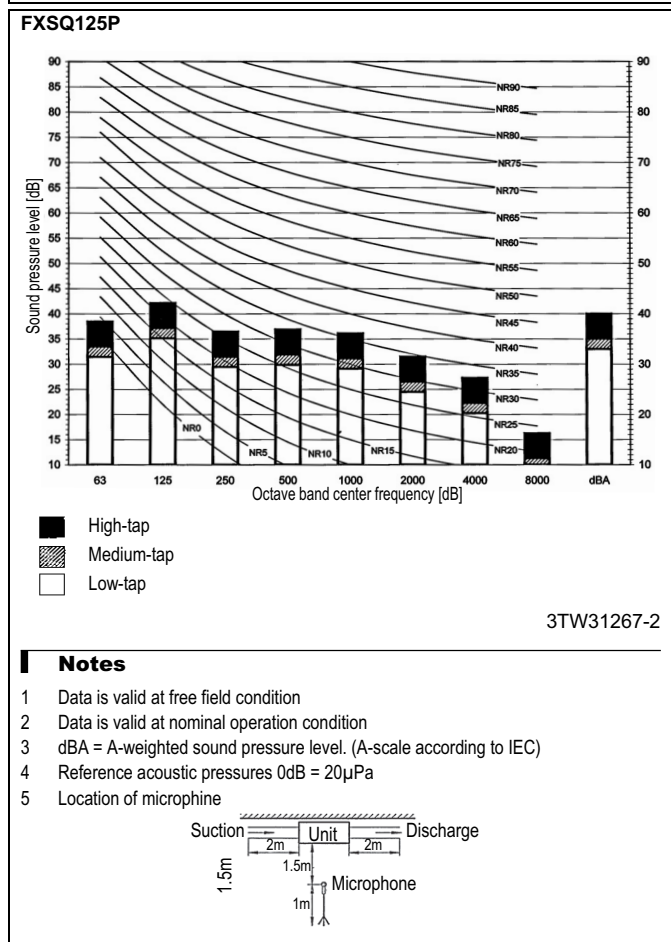
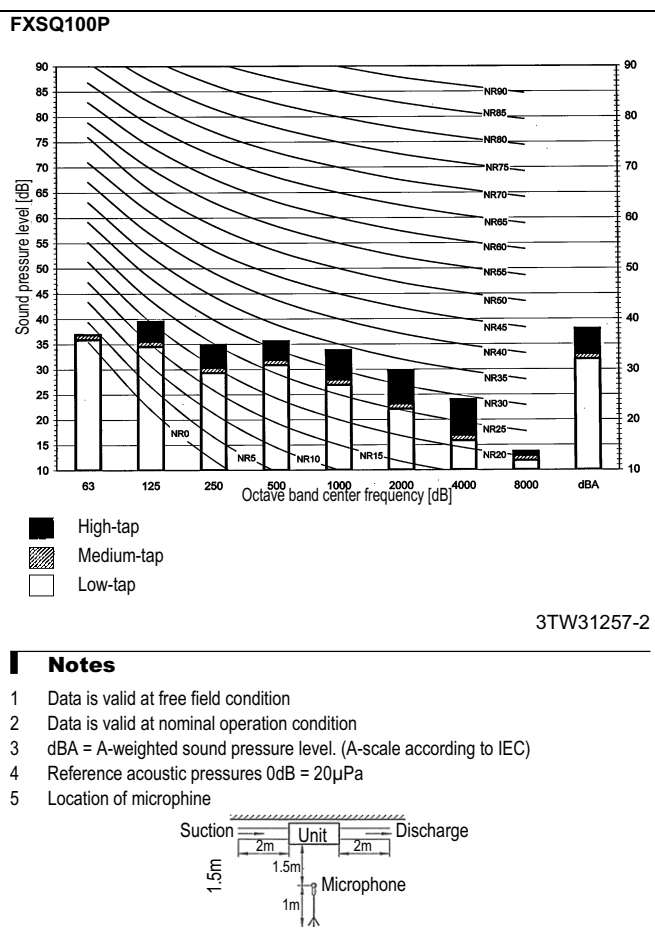
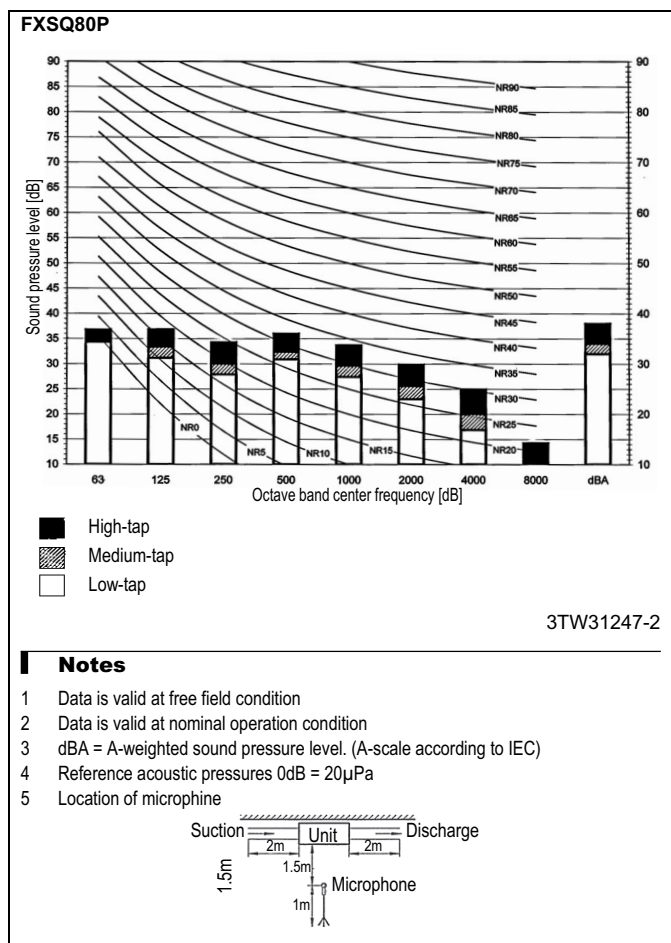
Notes

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



11 Sound data

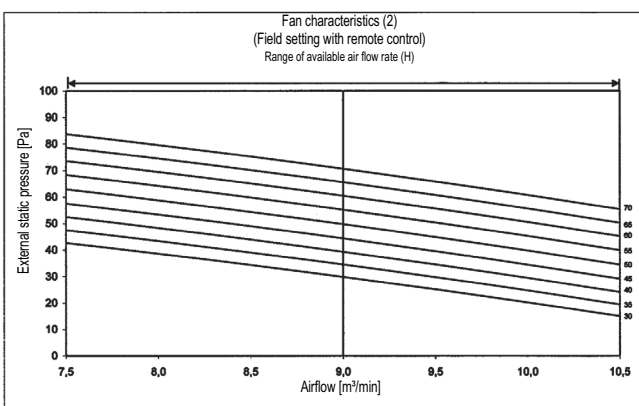
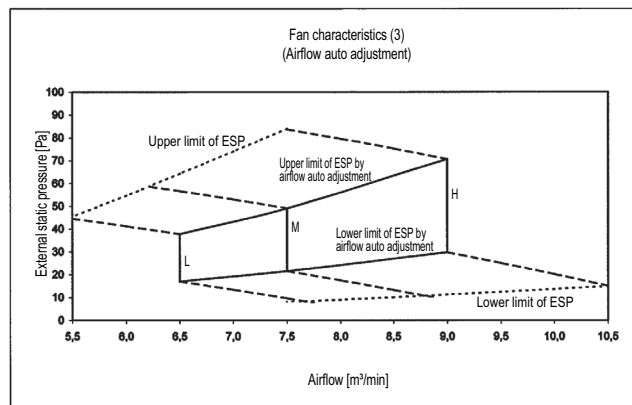
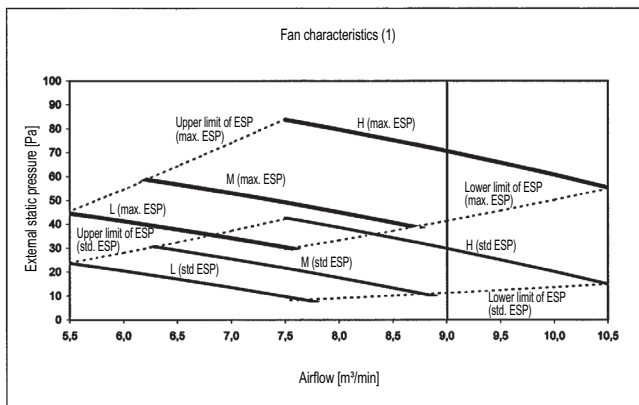
11 - 2 Sound Pressure Spectrum



12 Fan characteristics

12 - 1 Fan Characteristics

FXSQ20-25P

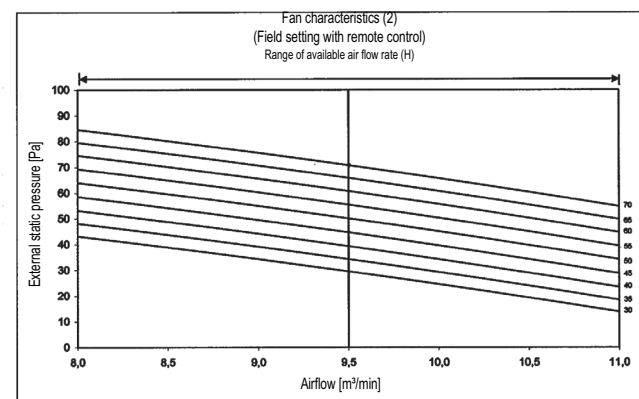
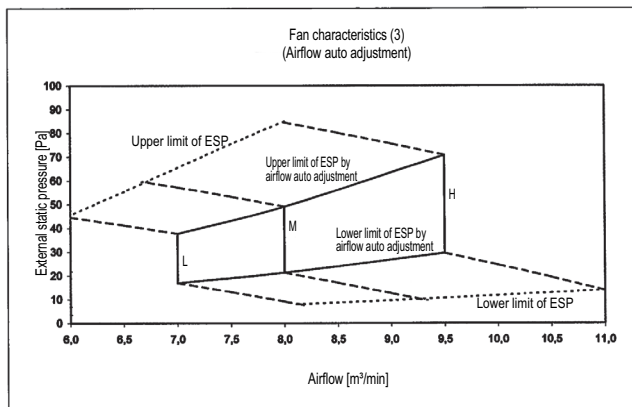
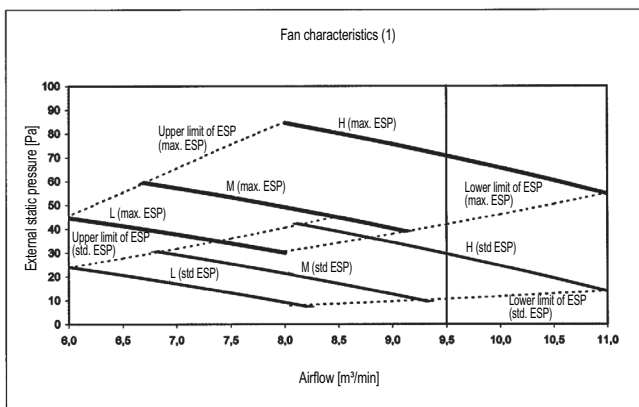


NOTES

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

3TW31188-1

FXSQ32P



NOTES

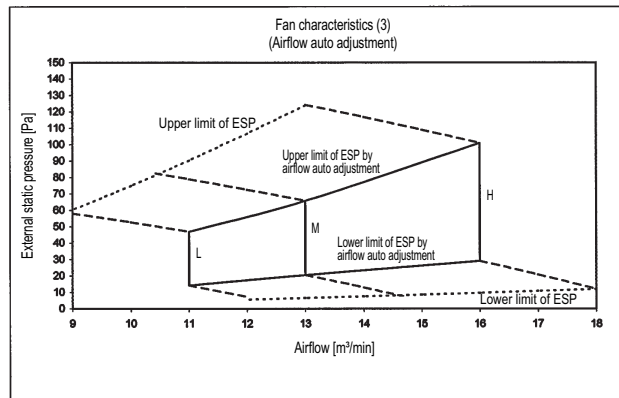
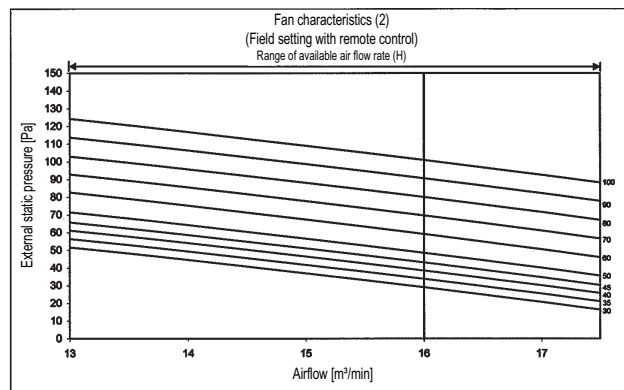
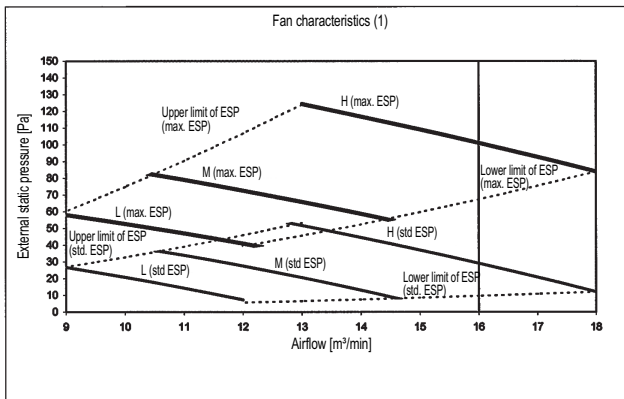
- 1 Fan characteristics as shown ar in "fan only" mode.
- 2 ESP: External static pressure

3TW31208-1

12 Fan characteristics

12 - 1 Fan Characteristics

FXSQ40-50

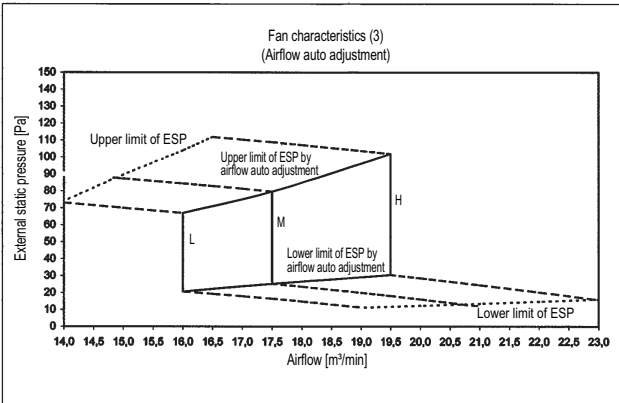
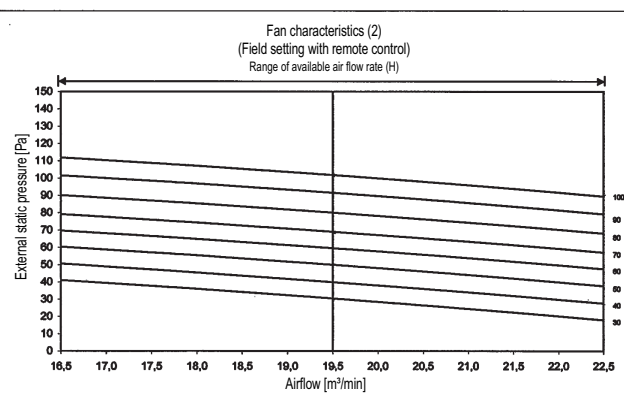
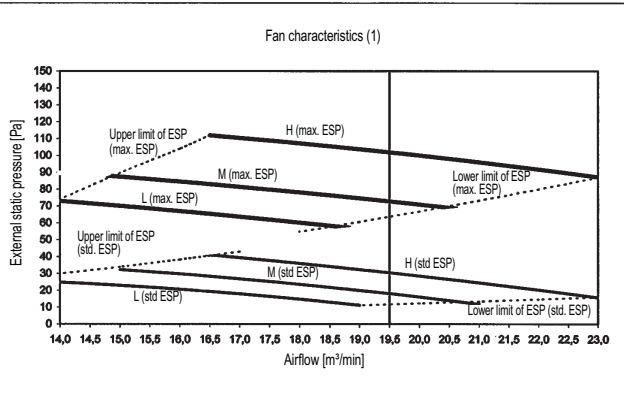


NOTES

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

3TW31218-1

FXSQ63P



NOTES

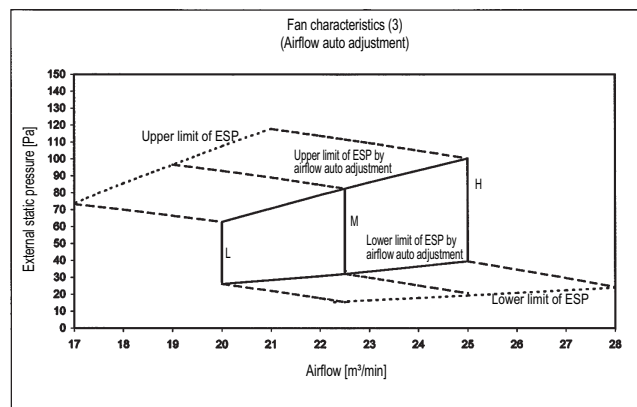
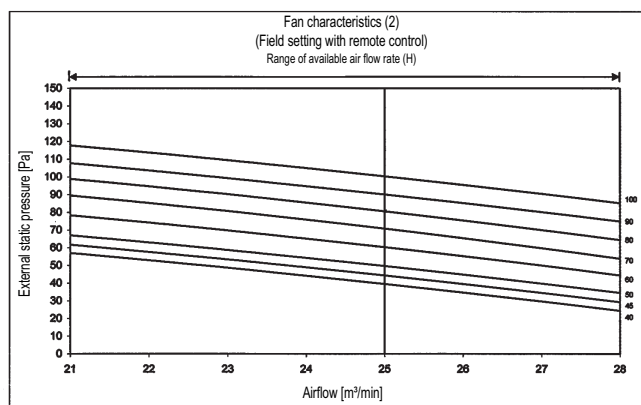
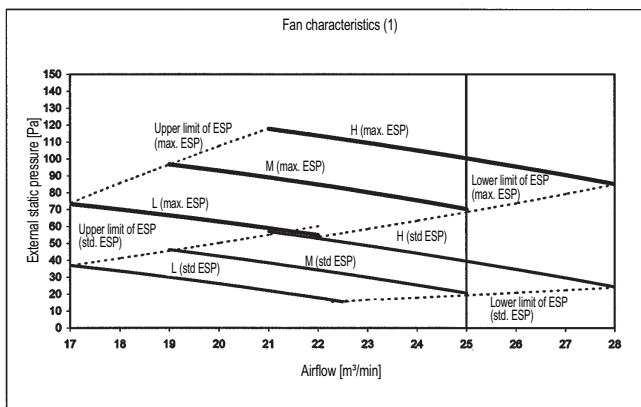
- 1 Fan characteristics as shown ar in "fan only" mode.
- 2 ESP: External static pressure

3TW31238-1

12 Fan characteristics

12 - 1 Fan Characteristics

FXSQ80P7

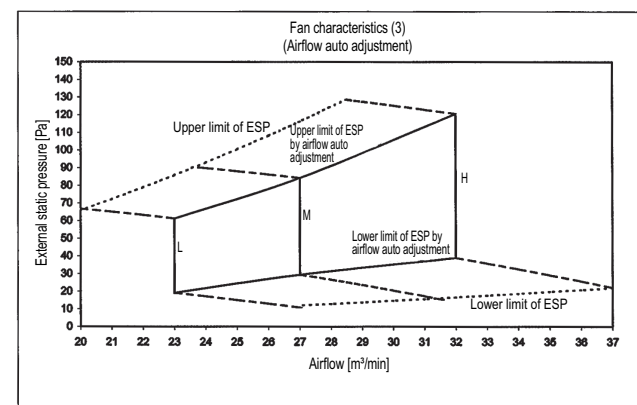
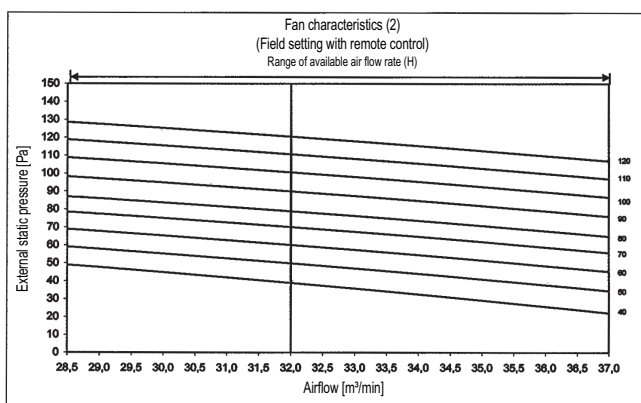
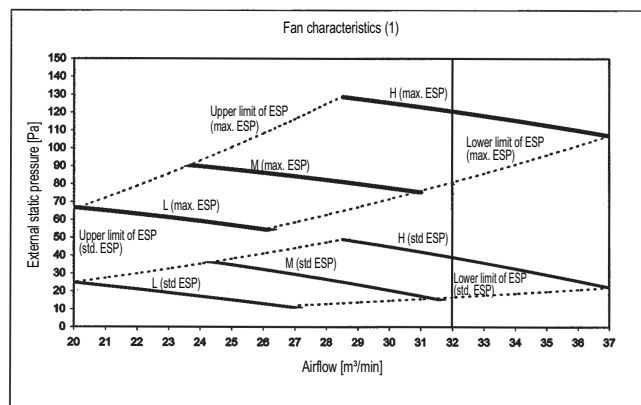


NOTES

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

3TW31248-1

FXSQ100P



NOTES

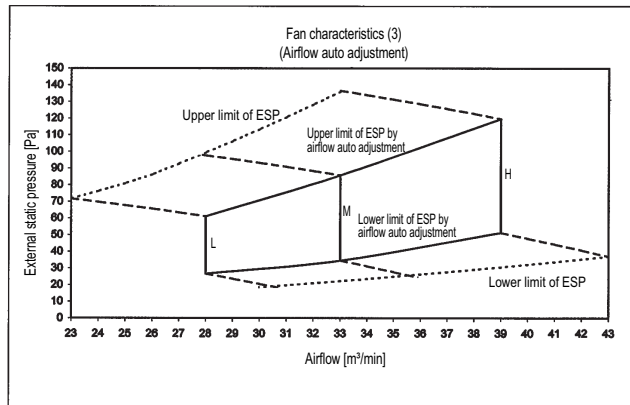
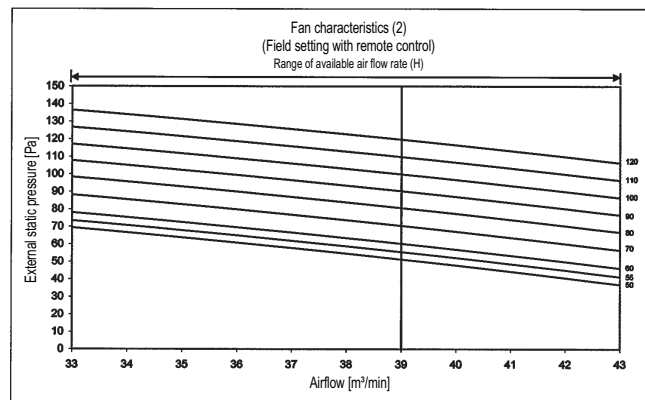
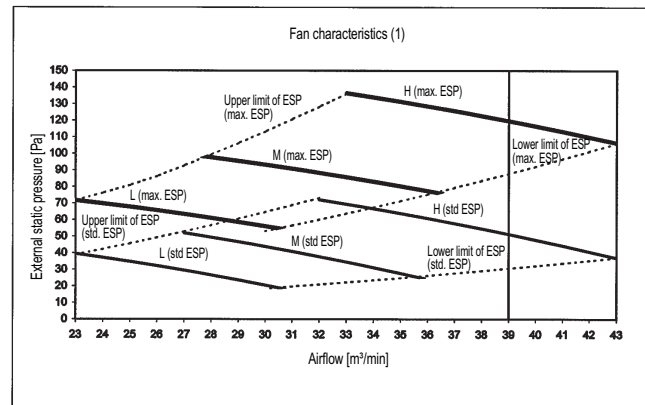
- 1 Fan characteristics as shown ar in "fan only" mode.
- 2 ESP: External static pressure

3TW31258-1

12 Fan characteristics

12 - 1 Fan Characteristics

FXSQ125P

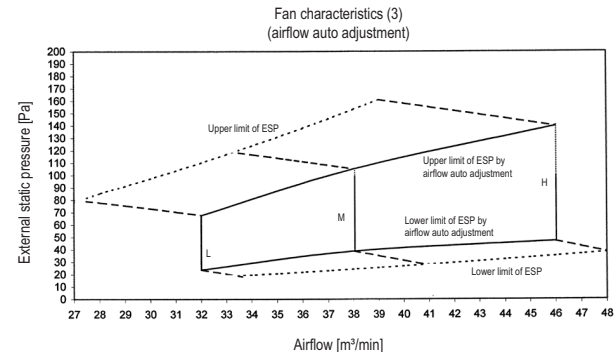
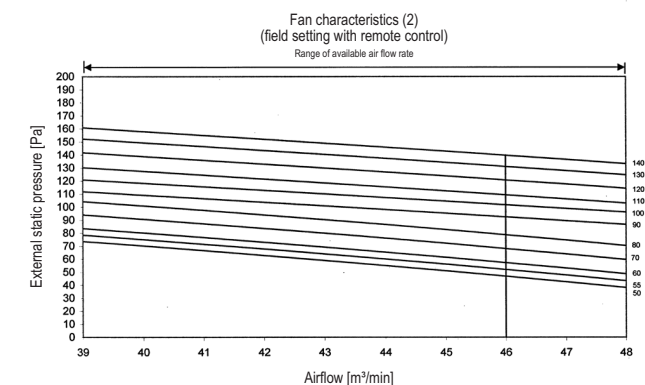
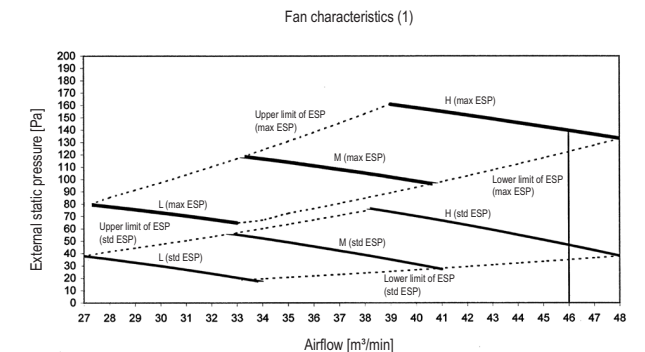


NOTES

- 1 Fan characteristics as shown ar 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.



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