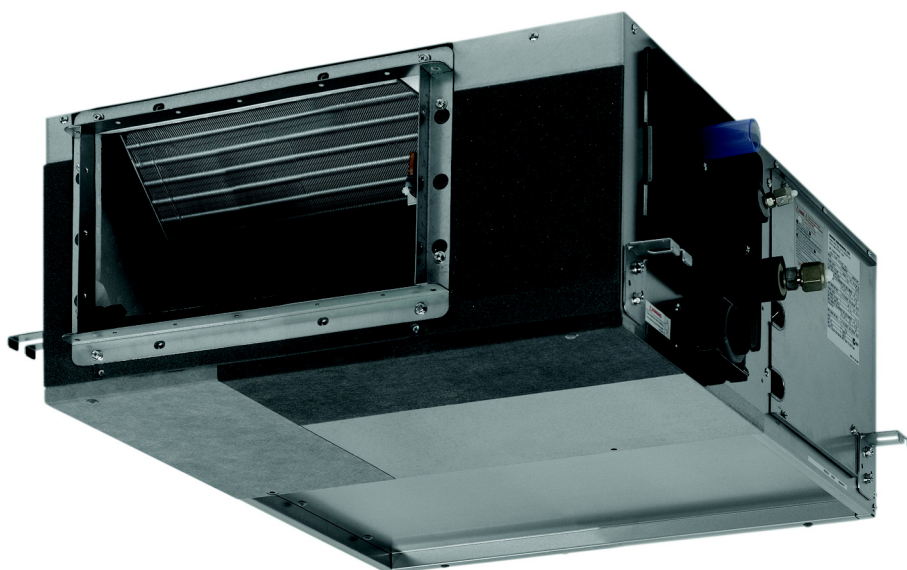




Air Conditioning Technical Data

Concealed ceiling unit with inverter driven fan



EEDEN13-204

FXMQ-P7

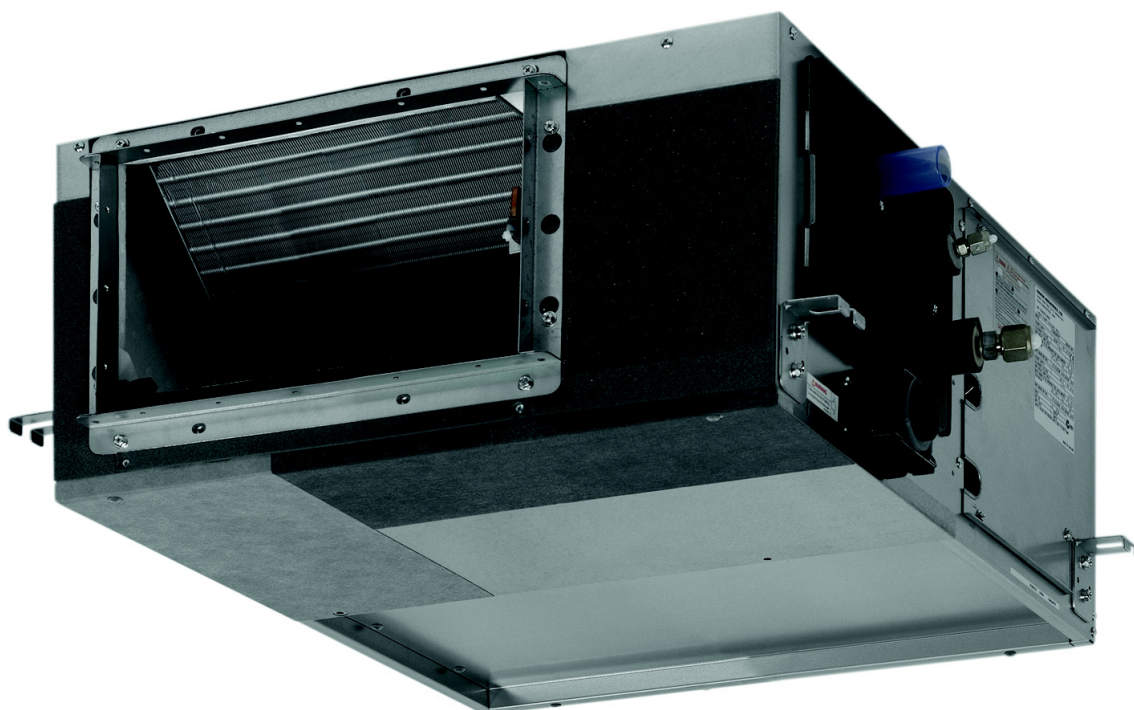
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FXMQ-P7

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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 200Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- 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



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				FXMQ20P 7	FXMQ25P 7	FXMQ32P 7	FXMQ40P 7	FXMQ50P 7	FXMQ63P 7	FXMQ80P 7	FXMQ100 P7	FXMQ125 P7		
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)	
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)	
Power input - 50Hz	Cooling	Nom.	kW	0.049 (1)		0.053 (1)	0.151 (1)	0.110 (1)	0.120 (1)	0.171 (1)	0.176 (1)	0.241 (1)		
	Heating	Nom.	kW	0.037 (2)		0.041 (2)	0.139 (2)	0.098 (2)	0.108 (2)	0.159 (2)	0.164 (2)	0.229 (2)		
Casing	Colour			Unpainted										
	Material			Galvanised steel plate										
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			
	Packed unit		kg	28			32	42			54			
Decoration panel	Model			BYBS32DJW1			BYBS45 DJW1	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										
	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	18	19.5	25	32	39		
			Medium	m³/min	7.8	8.3	13.5	16.5	17.8	22.5	27.5	33.5		
			Low	m³/min	6.5	7	11	15	16	20	23	28		
		Heating	High	m³/min	9.0	9.5	16	18	19.5	25	32	39		
			Medium	m³/min	7.8	8.3	13.5	16.5	17.8	22.5	27.5	33.5		
			Low	m³/min	6.5	7	11	15	16	20	23	28		
	Air flow rate - 60Hz	Cooling	High	m³/min	9	9.5	16	18	19.5	25	32	39		
			Medium	m³/min	7.8	8.3	13.5	16.5	17.8	22.5	27.5	33.5		
			Low	m³/min	6.5	7	11	15	16	20	23	28		
		Heating	High	m³/min	9	9.5	16	18	19.5	25	32	39		
			Medium	m³/min	7.8	8.3	13.5	16.5	17.8	22.5	27.5	33.5		
			Nom.	m³/min	6.5	7	11	15	16	20	23	28		
	External static pressure - 50Hz	High		Pa	100			160	200					
		Nom.		Pa	50			100						
	External static pressure - 60Hz	High		Pa	100			160	200					
Nom.		Pa	50			100								

2 Specifications

2-1 Technical Specifications				FXMQ20P 7	FXMQ25P 7	FXMQ32P 7	FXMQ40P 7	FXMQ50P 7	FXMQ63P 7	FXMQ80P 7	FXMQ100 P7	FXMQ125 P7	
Fan motor	Quantity			1									
	Model			Brushless DC motor									
	Speed	Steps			7		13	14					
		Cooling	High	rpm	1,153		1,181	1,531	1,318	1,343	1,448	1,344	1,425
			Low	rpm	878		902	1,083	1,113	1,117	1,173	998	1,061
		Heating	High	rpm	1,153		1,181	1,531	1,318	1,343	1,448	1,344	1,425
			Low	rpm	878		902	1,083	1,113	1,117	1,173	998	1,061
	Output	High		W	90		140	350					
Drive			Direct drive										
Sound power level	Cooling	High	dBA	56		57	65	61	64	67	65	70	
Sound pressure level	Cooling	High	dBA	33		34	39	41	42	43		44	
		Nom.	dBA	31		32	37	39	40	41		42	
		Low	dBA	29		30	35	37	38	39		40	
	Heating	High	dBA	33		34	39	41	42	43		44	
		Nom.	dBA	31		32	37	39	40	41		42	
		Low	dBA	29		30	35	37	38	39		40	
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 (I.D. 25/O.D. 32)									
	Heat insulation			Both liquid and gas pipes									
Air filter	Type			Resin net with mold resistance									
Drain-up height			mm	625									
Safety devices	Item	01		PC board fuse									
		02		PC board fuse (fan driver)									
		03		Drain pump fuse									

2-2 Electrical Specifications				FXMQ20P 7	FXMQ25P 7	FXMQ32P 7	FXMQ40P 7	FXMQ50P 7	FXMQ63P 7	FXMQ80P 7	FXMQ100 P7	FXMQ125 P7
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	0.6			1.6	1.4		1.7	2.3	2.9
	Maximum fuse amps (MFA)		A	16								
Current - 60Hz	Minimum circuit amps (MCA)		A	0.6			1.6	1.4		1.7	2.3	2.9
	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

FXMQ-P7

Units						Power supply	
Model	Type	Hz	Voltage range	Min.	Max.	MCA	MFA
FXMQ20P7	VE	50/60	220~240V/ 220V	-10%	+10%	0.6	16
FXMQ25P7						0.6	16
FXMQ32P7						0.6	16
FXMQ40P7						1.6	16
FXMQ50P7						1.4	16
FXMQ63P7						1.4	16
FXMQ80P7						1.7	16
FXMQ100P7						2.3	16
FXMQ125P7						2.9	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 the voltage supplied to the unit terminals is not below or above the listed range limits.
- 2 Maximum allowable voltage unbalance between phases is 2%.
- 3 Select wire size based on the MCA.
- 4 Instead of fuse, use circuit breaker.

4TW32651-2

4 Safety device settings

4 - 1 Safety Device Settings

FXMQ-P7

	Safety devices	20	25	32	40	50	63	80	100	125
FXMQ	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 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

3TW32659-2

5 Options

5 - 1 Options

FXMQ-P7

OPTIONS

Item		Type	FXMQ20,25,32	FXMQ40	FXMQ50.63.80	FXMQ100.125
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		EKBYBSD			

OPERATION CONTROL

Item			Type	FXMQ20,25,32	FXMQ40	FXMQ50.63.80	FXMQ100.125
Remote control	Wired type			BRC1D52 / BRC1E51A (*7) / BRC1C62 (*6) / BRC1E52A (*8) / BRC1E52B (*9)			
	Infrared type		HP	BRC4C65			
				CO	BRC4C66		
Simplified remote control				BRC2C51			
Remote control for hotel use				BRC3A61			
Option PCB for external el. 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				KRCS01-4B			
Central remote control				DCS302C51 / DCS302CA61 (*6)			
Residential remote control				DCS303A51 (*6) (*10)			
Electrical box with earth terminal (3 blocks)				KJB311A			
Unified ON/OFF controller				DCS301B51 / DCS301BA61 (*6)			
Electrical box with earth terminal (2 blocks)				KJB212A			
Schedule timer				DST301B51 / DST301BA61 (*6)			
External adapter for outdoor unit (installation on indoor unit) (*4)				DTA104A61			
PCB for multi tenant (*4)				DTA114A61			
Mounting plate for adapter PCB				KRP4A96			

CONTENTS OF ACCESSORY BAG

Description	Quantity
	FXMQ20,25,40,50,63,80,100,125
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

3TW32659-3A

NOTES

- Electrical heater and humidifier are field supply. These parts should not be installed inside the equipment (refer to installation manual EKR1B2A)
- If installing an electrical heater, and option PCB for external heater (EKRP1B52) for each indoor unit is required.
- An electrical heater can not be used for VRV system cooling only.
- Mounting plate KRP4A96 is required for these options. Maximum 2 option PCB's can be mounted.
- Decoration panel option EKBYBSD is required for direct mounting of the decoration panel on the unit.
- BRC1C62, DCS302CA61, DCS301BA61 and DST301BA61 only for the Middle East region.
- Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian and Turkish.
- Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian, Turkish and Polish.
- Included languages are: English, German, Albanian, Bulgarian, Croatian, Czech, Hungarian, Romanian, Serbian, Slovak and Slovenian.
- For residential use only. Cannot be used with other centralised control equipment.

6 Capacity tables

6 - 1 Cooling Capacity Tables

FXMQ-P7

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	3.6	4.5	4.1	5.2	4.5	5.6	4.6	5.7	4.5	5.8	4.3	5.9	4.3
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

3TW32682-1B

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 seçildikten sonra tasarım gerekleri 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

FXMQ-P7

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

3TW25512-2B

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

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 - 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 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

FXMQ-P7

		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
FXDQ20P7	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
FXDQ25P7	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
FXDQ32P7	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
FXDQ40P7	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
FXDQ50P7	TC	0.674	0.707	0.766	0.788	0.808	0.838	0.861
	SHF	1.150	1.157	1.106	1.084	1.069	1.054	1.049
FXDQ63P7	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
FXDQ80P7	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
FXDQ100P7	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
FXDQ125P7	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

3D079901

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

How to use this table - So verwenden Sie diese Tabelle - Πώς θα χρησιμοποιήσετε αυτό τον πίνακα - Cómo utilizar esta tabla - Utilisation de ce tableau - Come utilizzare questa tabella - Gebruik van deze tabel - Как пользоваться этой таблицей - Bu tablo nasıl kullanılır? :

- 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.

Gevoelighedsfactor (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

FXMQ-P7

		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
FXMQ20P7	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
FXMQ25P7	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
FXMQ32P7	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
FXMQ40P7	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
FXMQ50P7	TC	0.544	0.561	0.599	0.637	0.669	0.722	0.762
	SHF	1.150	1.238	1.243	1.189	1.152	1.108	1.090
FXMQ63P7	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
FXMQ80P7	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
FXMQ100P7	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
FXMQ125P7	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

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

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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.

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Производительность: Общая производительность для режима с высоким коэфф. охлуждения = 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 .

Fühbare 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.

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Gevoeligheids capaciteit (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.

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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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.

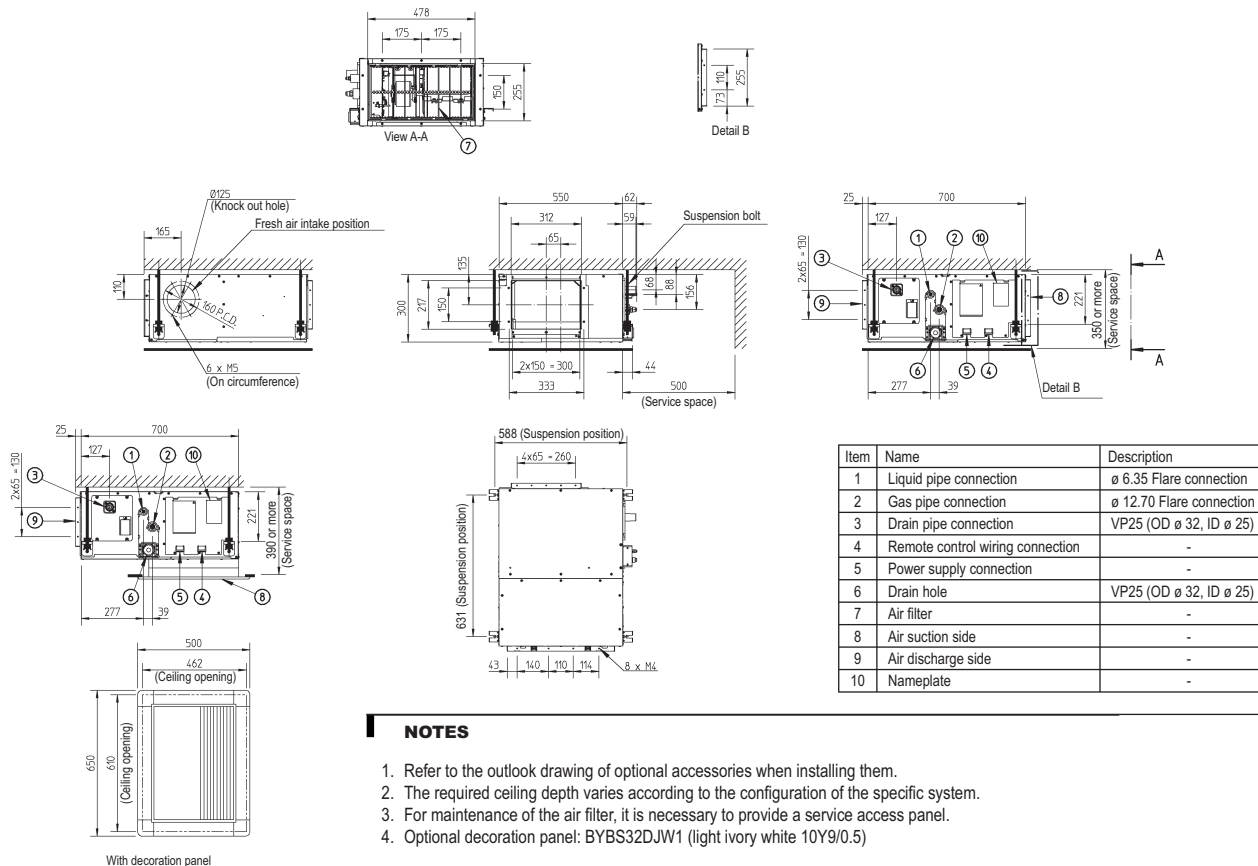
Если SHF больше 1, то SHF равен "1"

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

7 Dimensional drawings

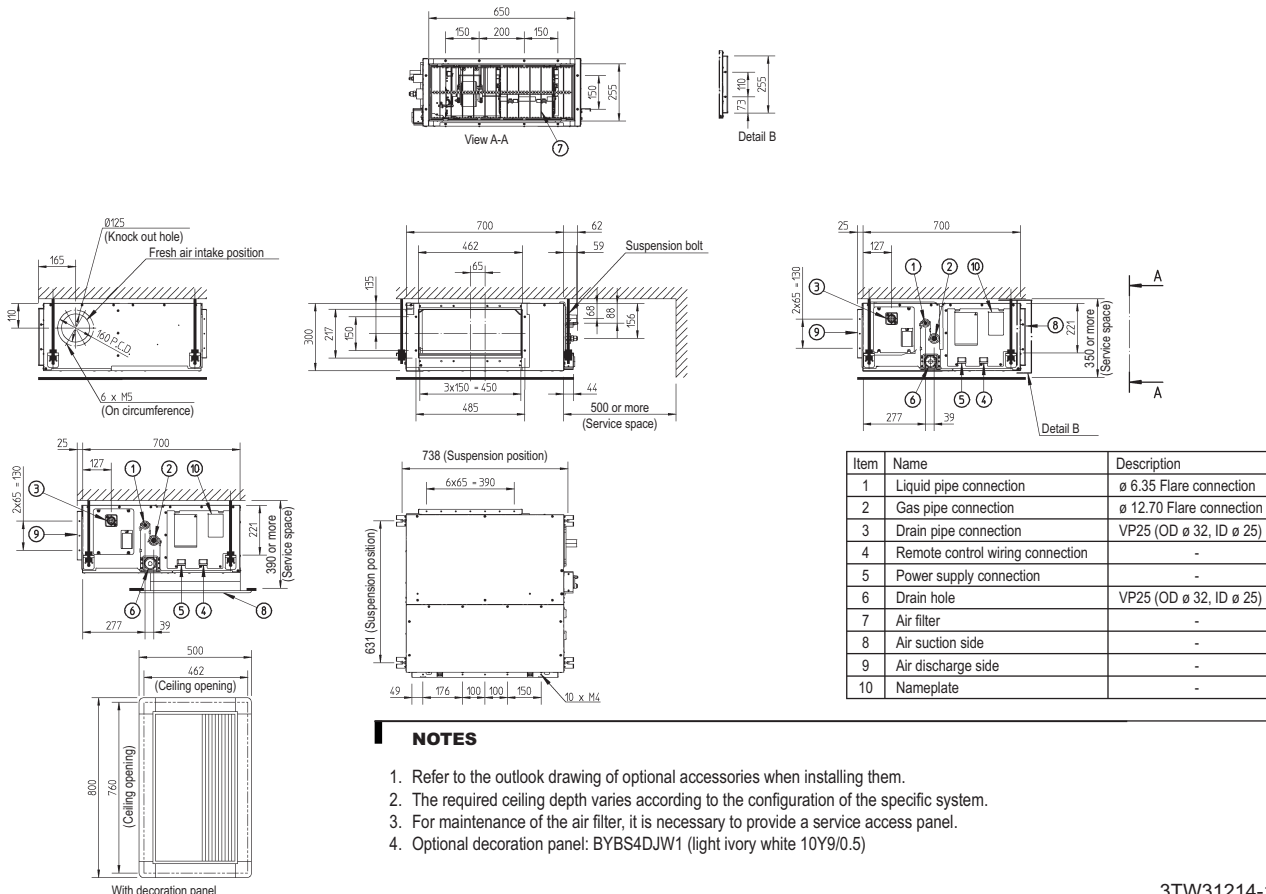
7 - 1 Dimensional Drawings

FXMQ20-32P7



3TW31184-1B

FXMQ40P7

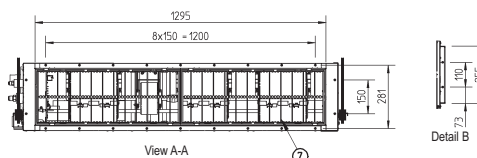
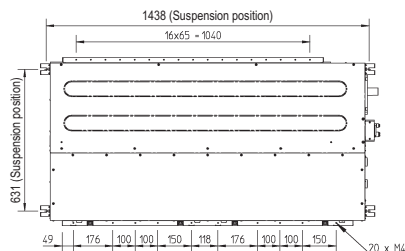


3TW31214-1B

7 - 1 Dimensional Drawings

Technical drawing of a mechanical assembly, likely a pump or motor component, showing dimensions and callouts. The drawing includes the following dimensions and features:

- Overall width: 700
- Overall height: 265 ± 10
- Top flange width: 25
- Top flange thickness: 27
- Internal width: 277
- Internal height: 271
- Bottom flange width: 39
- Bottom flange thickness: 35
- Service space: 350 or more
- Callouts: 1, 2, 3, 4, 5, 6, 8, 9, 10
- Detail B: A section of the assembly is labeled "Detail B".



Item	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 (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	-

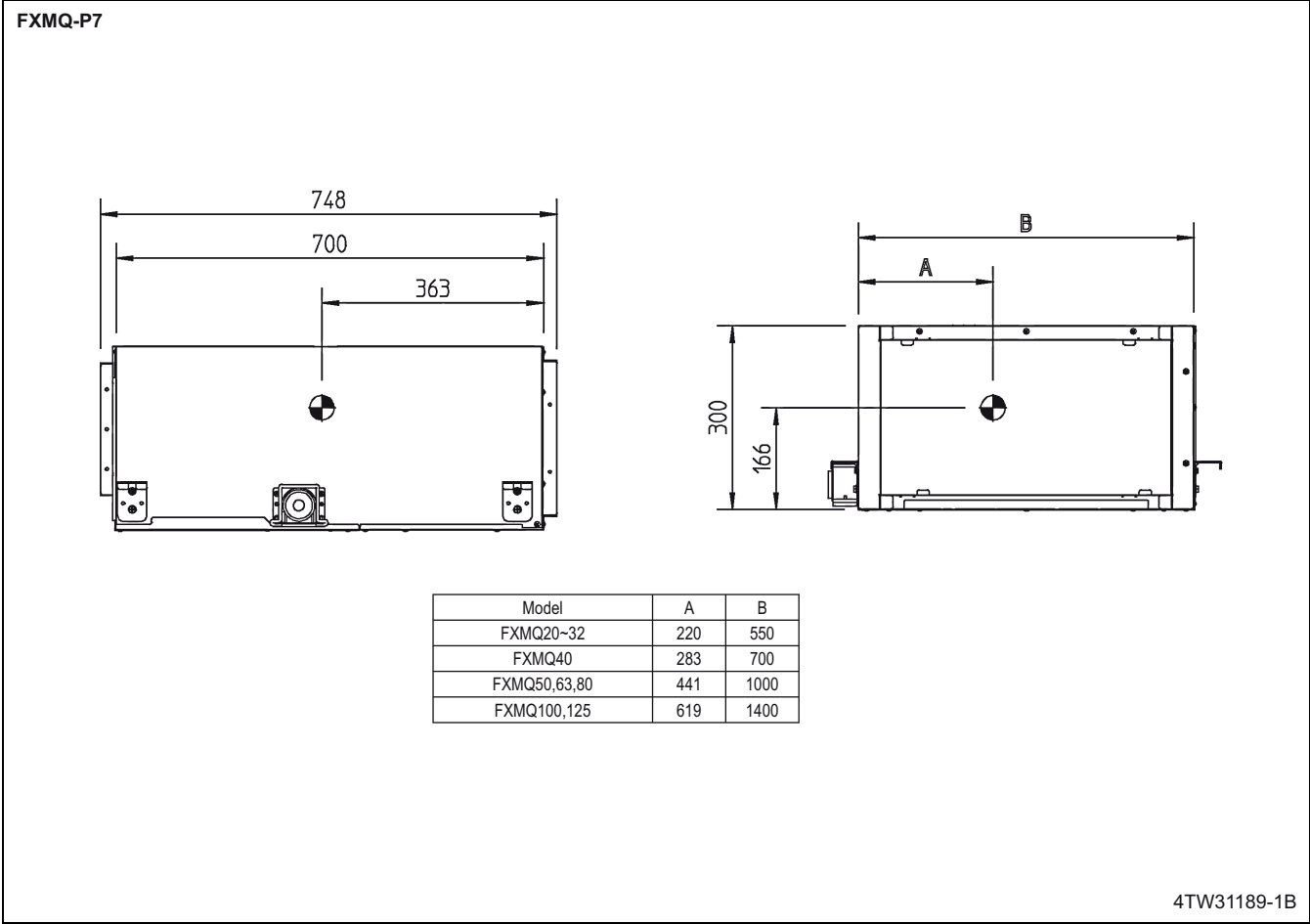
1. Refer to the outlook drawing of optional accessories when installing them.
2. The required ceiling depth varies according to the configuration of the specific system.
3. For maintenance of the air filter, it is necessary to provide a service access panel.
4. Optional decoration panel: BYBs125DJW1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

With decoration panel

3TW31254-1B

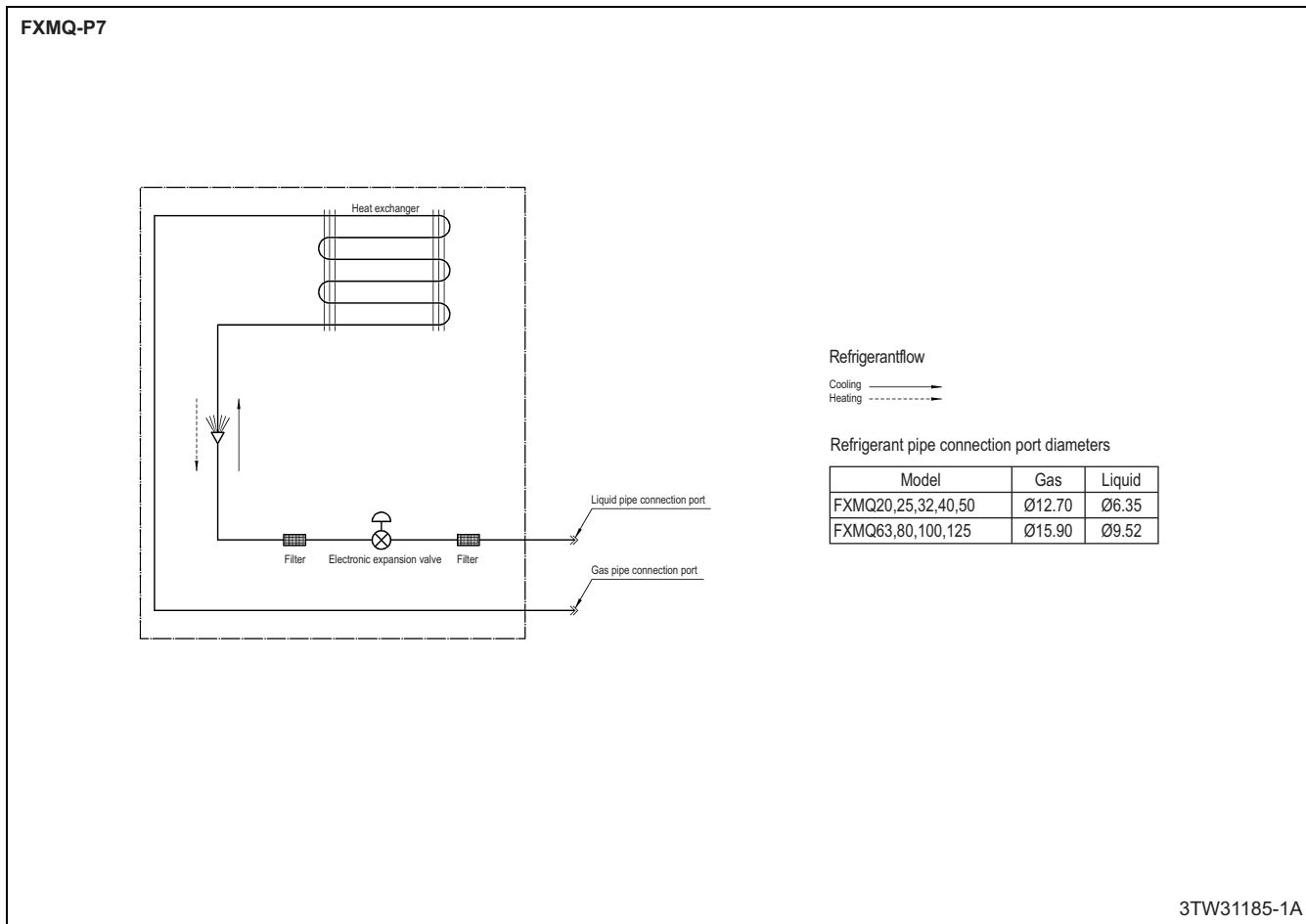
8 Centre of gravity

8 - 1 Centre of Gravity



9 Piping diagrams

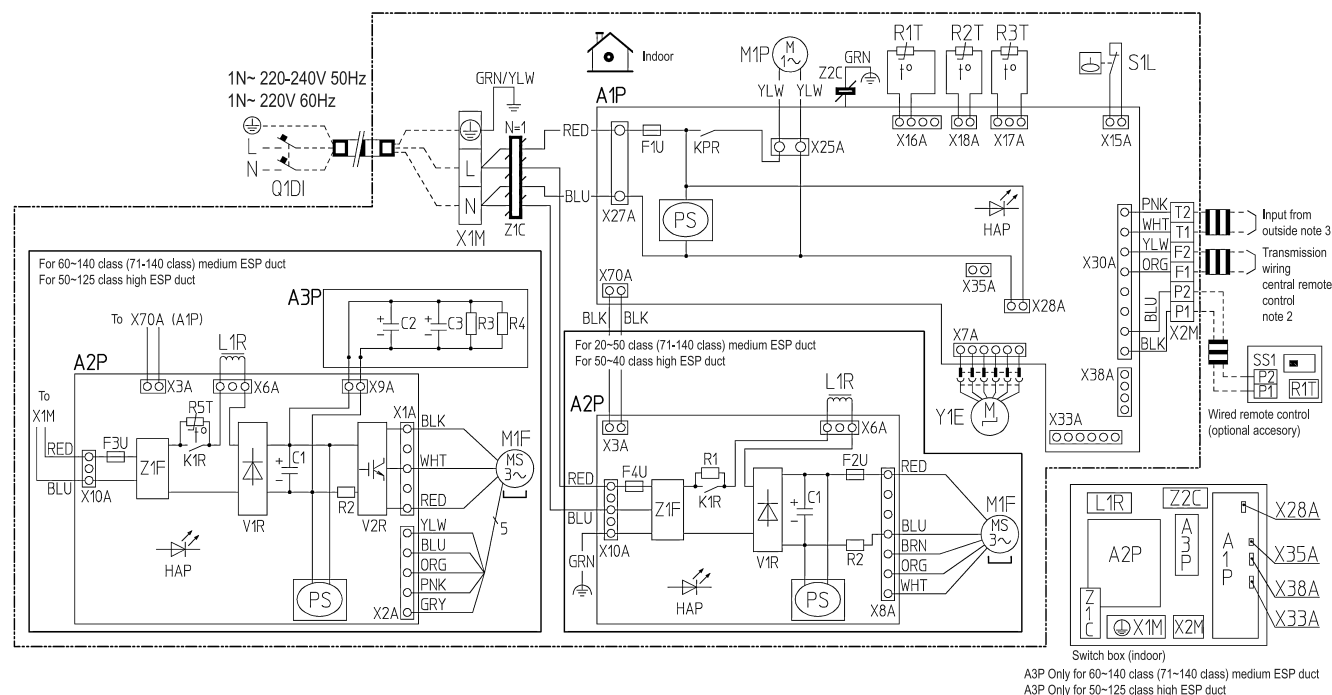
9 - 1 Piping Diagrams



10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXMQ20-40P7



Field wiring
L : Live
N : Neutral
Connector

Wire clamp
Protective earth (screw)

Colors: BLK : black
BLU : blue
BRN : brown
GRY : grey
ORG : orange
PNK : pink
RED : red
WHT : white
YLW : yellow
GRN : green

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
KRP,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)

2TW32656-1

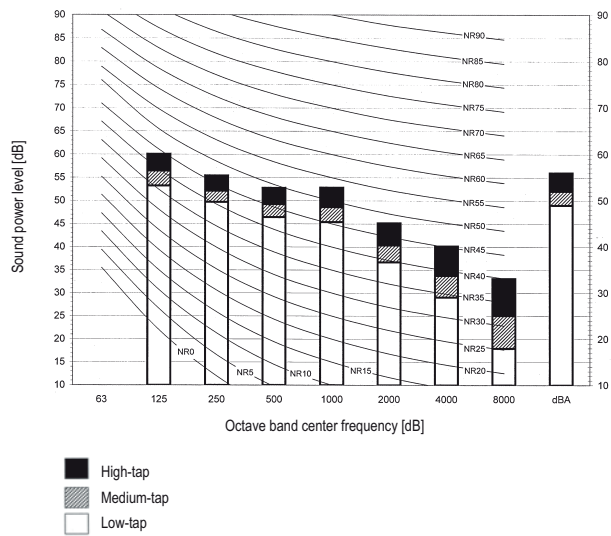
NOTES

- 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.

11 Sound data

11 - 1 Sound Power Spectrum

FXMQ20-25P7

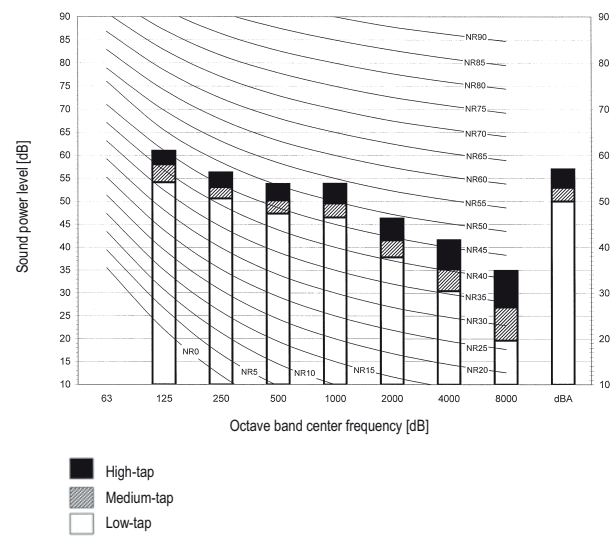


3TW32657-1

NOTES

- dBA = A weighted sound power level. (A-scale according to IEC)
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

FXMQ32P7

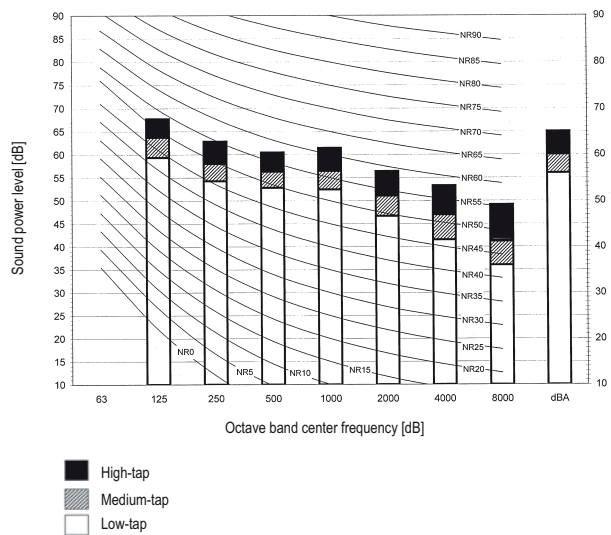


3TW32677-1

NOTES

- dBA = A weighted sound power level. (A-scale according to IEC)
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

FXMQ40P7

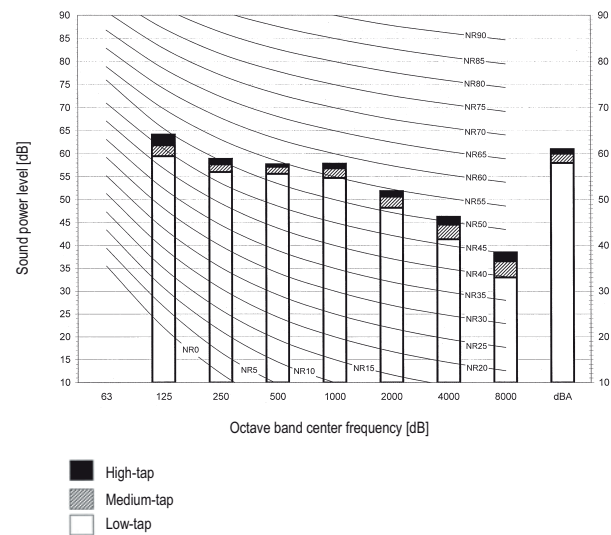


3TW32687-1

NOTES

- dBA = A weighted sound power level. (A-scale according to IEC)
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

FXMQ50P7



3TW32697-1

NOTES

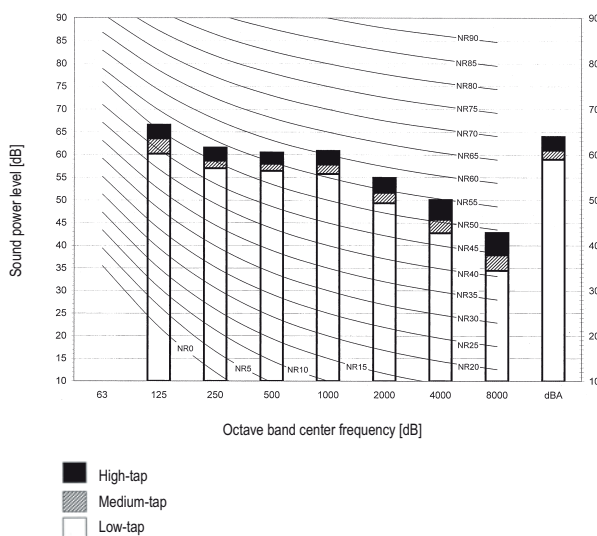
- dBA = A weighted sound power level. (A-scale according to IEC)
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

11 Sound data

11 - 1 Sound Power Spectrum

11

FXMQ63P7

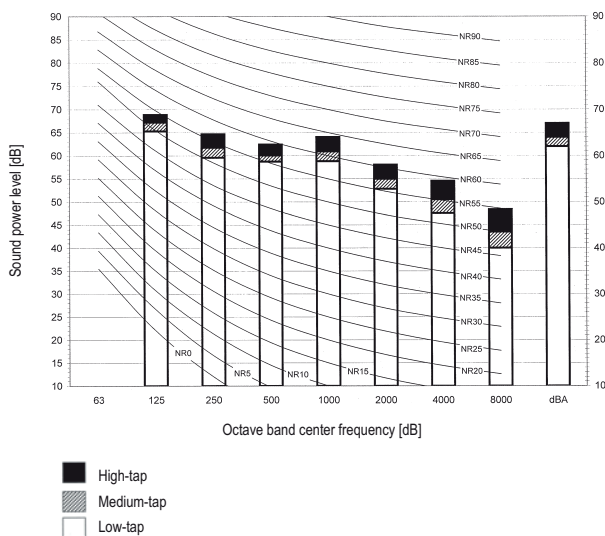


3TW32707-1

NOTES

- dBA = A weighted sound power level. (A-scale according to IEC)
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

FXMQ80P7

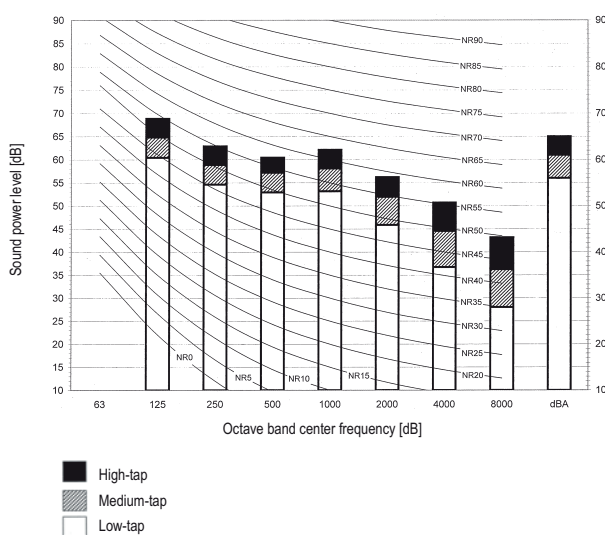


3TW32717-1

NOTES

- dBA = A weighted sound power level. (A-scale according to IEC)
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

FXMQ100P7

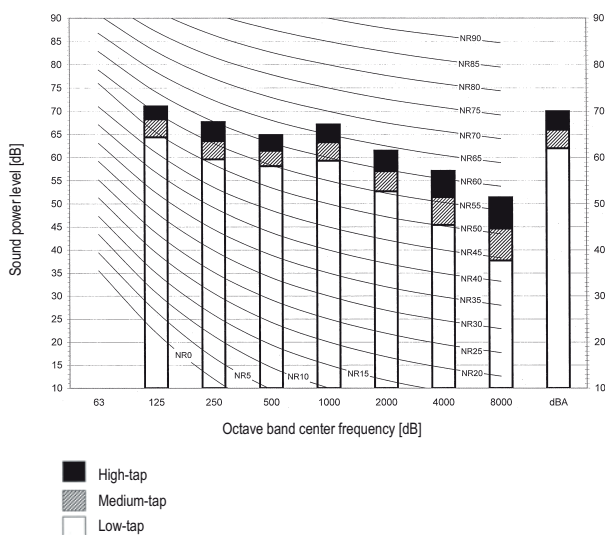


3TW32727-1

NOTES

- dBA = A weighted sound power level. (A-scale according to IEC)
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

FXMQ125P7



3TW32737-1

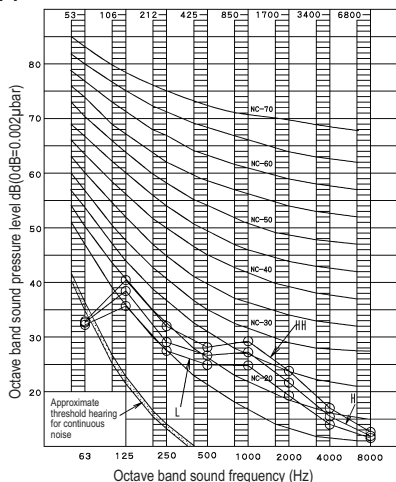
NOTES

- dBA = A weighted sound power level. (A-scale according to IEC)
- Reference acoustic intensity 0dB = 10E-6μW/m²
- Measured according to ISO 3744

11 Sound data

11 - 2 Sound Pressure Spectrum

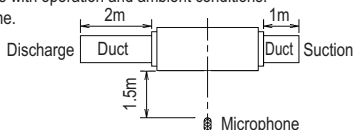
FXMQ20-25P7



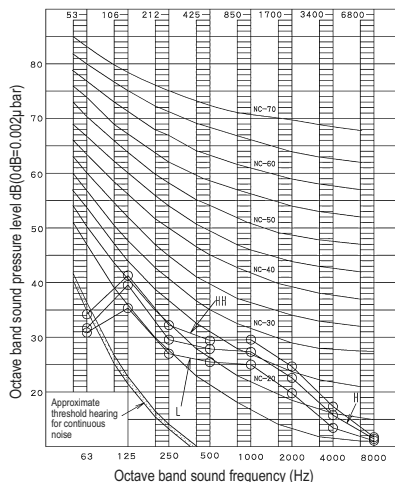
4D062535

NOTES

- Over All (dB):
(B,G,N is already rectified)
- Operating conditions:
 - Power source: 220-240V 50Hz / 220V 60Hz
 - Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWD
 - Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWD
 - External static pressure: 50Pa
- Measuring place: Anechoic chamber.
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



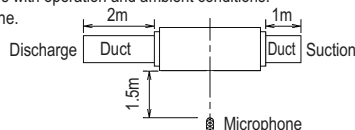
FXMQ32P7



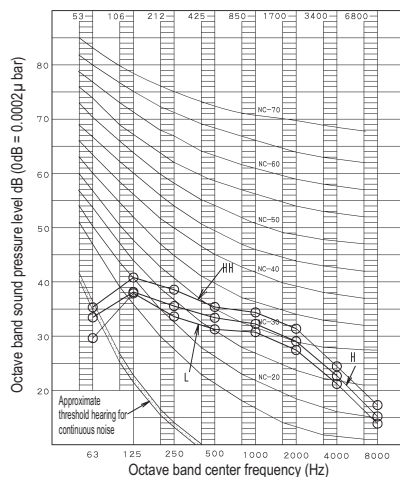
4D062536

NOTES

- Over All (dB):
(B,G,N is already rectified)
- Operating conditions:
 - Power source: 220-240V 50Hz / 220V 60Hz
 - Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWD
 - Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWD
 - External static pressure: 50Pa
- Measuring place: Anechoic chamber.
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



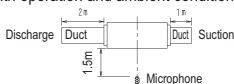
FXMQ40P7



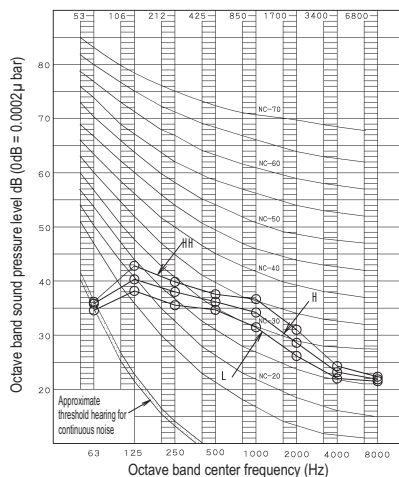
4D060446B

NOTES

- Over All (dB):
(B,G,N is already rectified)
- Operating conditions:
 - Power source: 220-240V 50Hz / 220V 60Hz
 - Cooling: return air temperature: 27°CDB, 19°CWB
outdoor temperature: 35°CDB, 24°CWD
 - Heating: return air temperature: 20°CDB, 15°CWB
outdoor temperature: 7°CDB, 6°CWB
 - External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



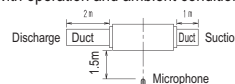
FXMQ50P7



4D060428B

NOTES

- Over All (dB):
(B,G,N is already rectified)
- Operating conditions:
 - Power source: 220-240V 50Hz / 220V 60Hz
 - Cooling: return air temperature: 27°CDB, 19°CWB
outdoor temperature: 35°CDB, 24°CWD
 - Heating: return air temperature: 20°CDB, 15°CWB
outdoor temperature: 7°CDB, 6°CWB
 - External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.

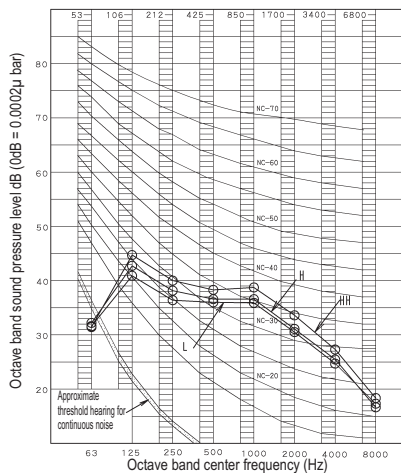


11 Sound data

11 - 2 Sound Pressure Spectrum

11

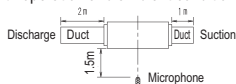
FXMQ63P7



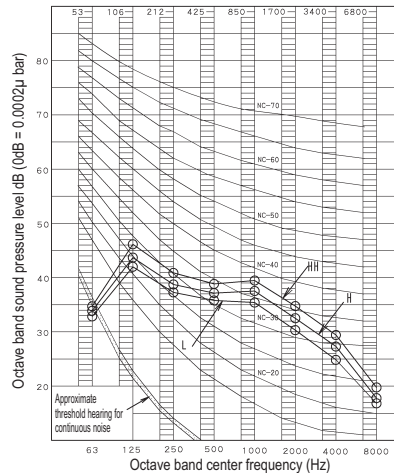
4D060447B

NOTES

- Over All (dB):
(B,G,N is already rectified)
- Operating conditions:
Power source: 220~240V 50Hz / 220V 60Hz
Cooling: return air temperature: 27°CDB, 19°CWB
outdoor temperature: 35°CDB, 24°CWD
Heating: return air temperature: 20°CDB, 15°CWB
outdoor temperature: 7°CDB, 6°CWB
External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



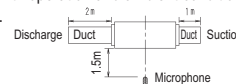
FXMQ80P7



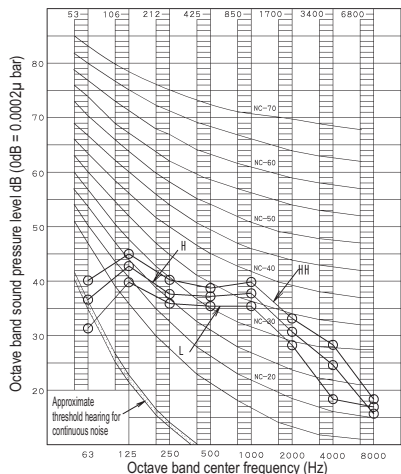
4D060429B

NOTES

- Over All (dB):
(B,G,N is already rectified)
- Operating conditions:
Power source: 220~240V 50Hz / 220V 60Hz
Cooling: return air temperature: 27°CDB, 19°CWB
outdoor temperature: 35°CDB, 24°CWD
Heating: return air temperature: 20°CDB, 15°CWB
outdoor temperature: 7°CDB, 6°CWB
External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



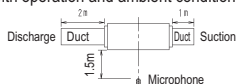
FXMQ100P7



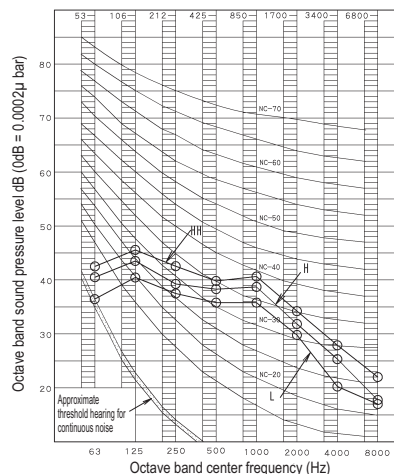
4D060448B

NOTES

- Over All (dB):
(B,G,N is already rectified)
- Operating conditions:
Power source: 220~240V 50Hz / 220V 60Hz
Cooling: return air temperature: 27°CDB, 19°CWB
outdoor temperature: 35°CDB, 24°CWD
Heating: return air temperature: 20°CDB, 15°CWB
outdoor temperature: 7°CDB, 6°CWB
External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.



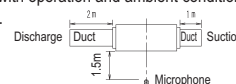
FXMQ125P7



4D060449B

NOTES

- Over All (dB):
(B,G,N is already rectified)
- Operating conditions:
Power source: 220~240V 50Hz / 220V 60Hz
Cooling: return air temperature: 27°CDB, 19°CWB
outdoor temperature: 35°CDB, 24°CWD
Heating: return air temperature: 20°CDB, 15°CWB
outdoor temperature: 7°CDB, 6°CWB
External static pressure: 100Pa
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Location of microphone.

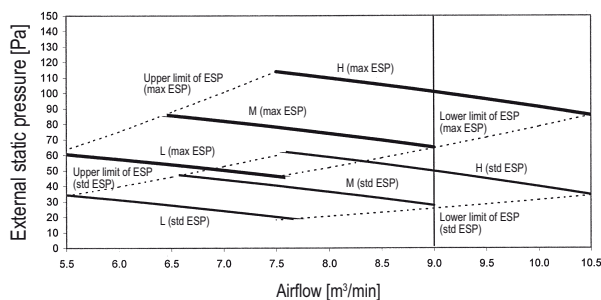


12 Fan characteristics

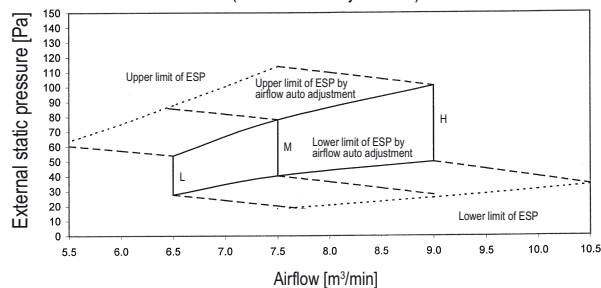
12 - 1 Fan Characteristics

FXMQ20-25P7

Fan characteristics (1)

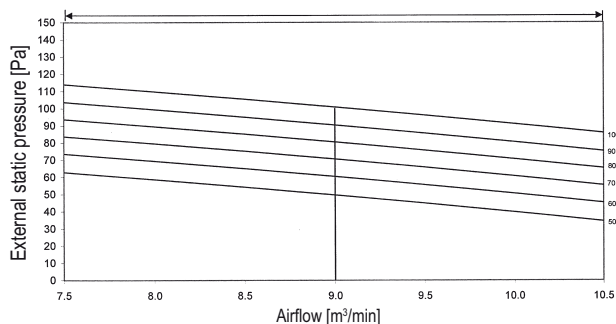


Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)

Range of available air flow rate (H)



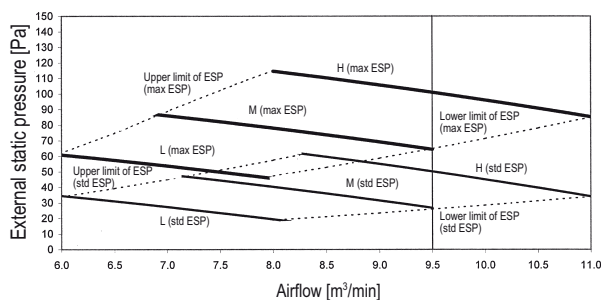
3TW32658-1

NOTES

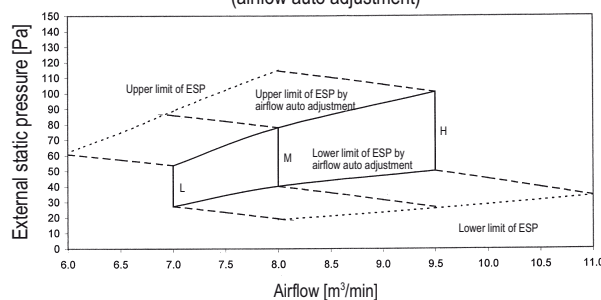
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

FXMQ32P7

Fan characteristics (1)

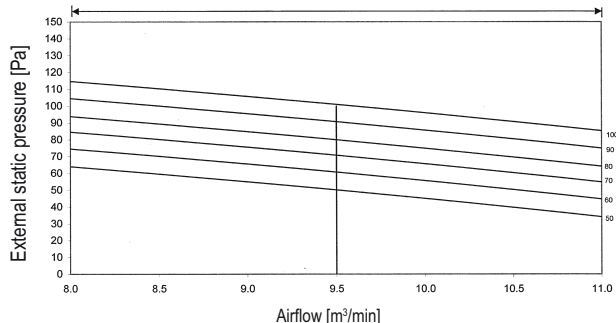


Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)

Range of available air flow rate (H)



3TW32678-1

NOTES

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

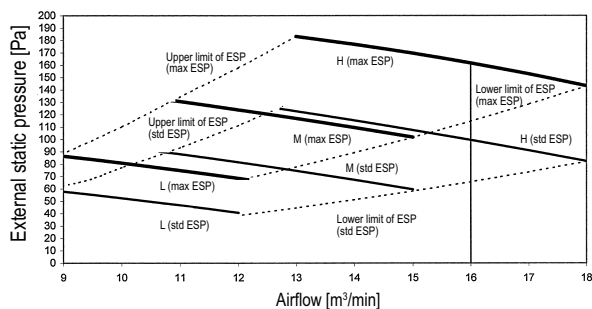
12 Fan characteristics

12 - 1 Fan Characteristics

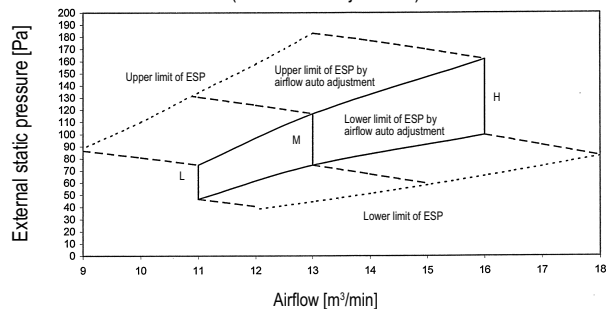
12

FXMQ40P7

Fan characteristics (1)

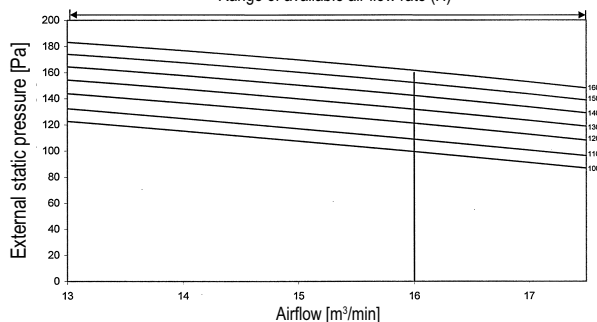


Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)

Range of available air flow rate (H)



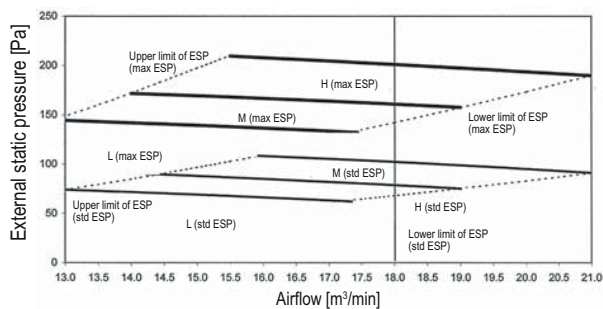
3TW32688-1

NOTES

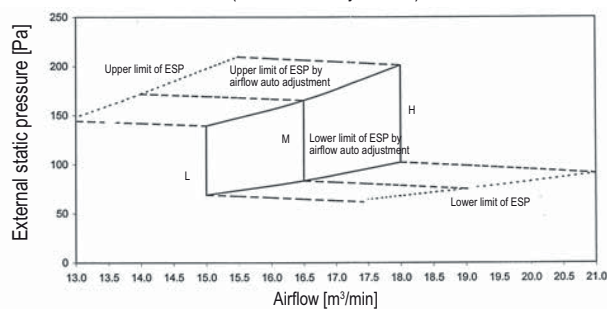
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

FXMQ50P7

Fan characteristics (1)

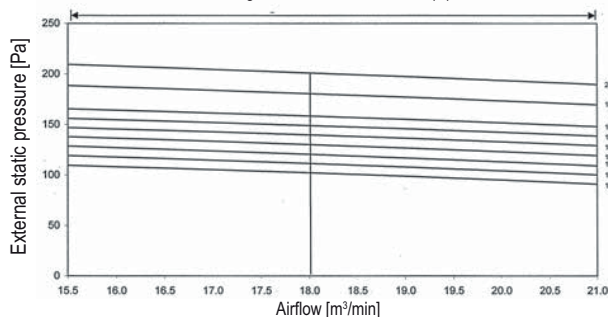


Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)

Range of available air flow rate (H)



3TW32698-1

NOTES

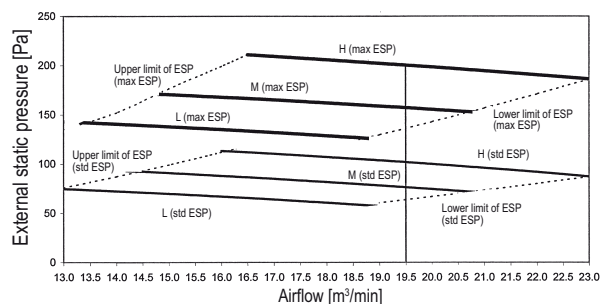
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

12 Fan characteristics

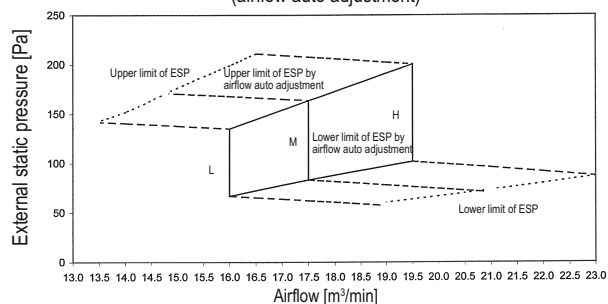
12 - 1 Fan Characteristics

FXMQ63P7

Fan characteristics (1)

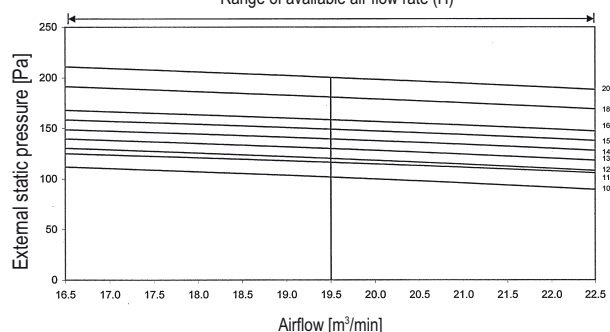


Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)

Range of available air flow rate (H)



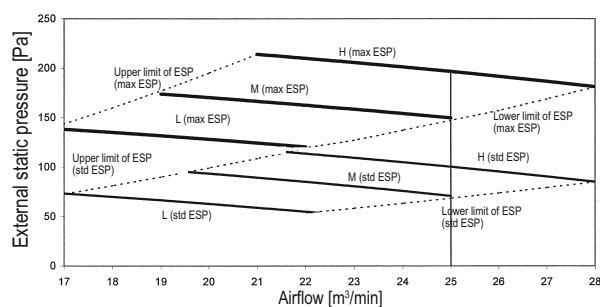
3TW32708-1

NOTES

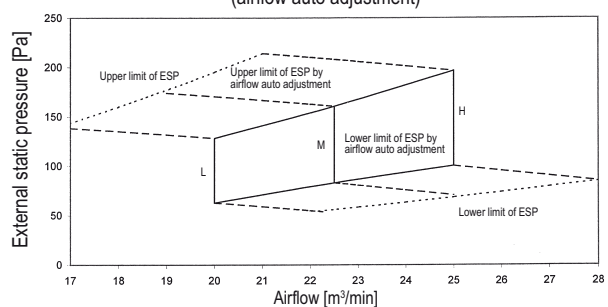
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

FXMQ80P7

Fan characteristics (1)

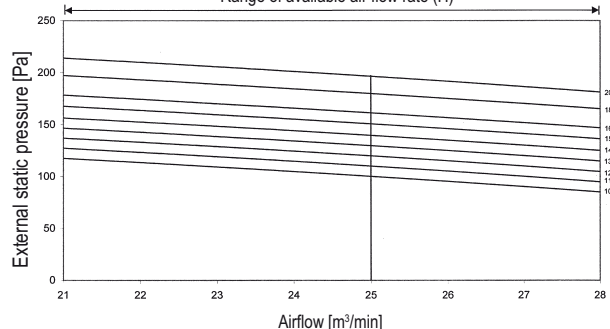


Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)

Range of available air flow rate (H)



3TW32718-1

NOTES

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

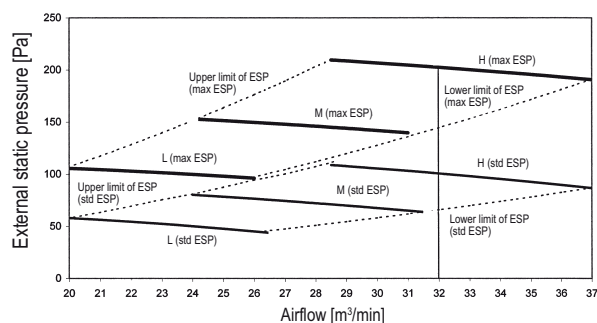
12 Fan characteristics

12 - 1 Fan Characteristics

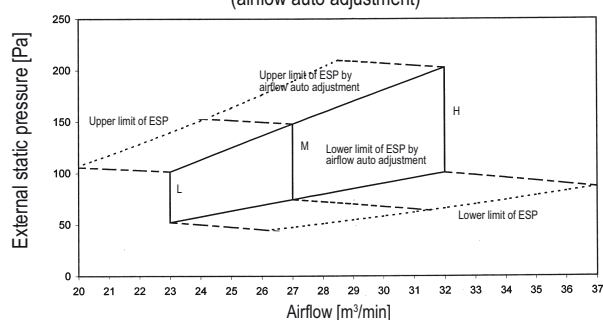
12

FXMQ100P7

Fan characteristics (1)

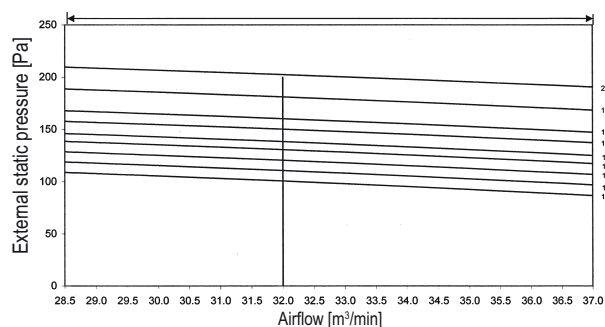


Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)

Range of available air flow rate (H)



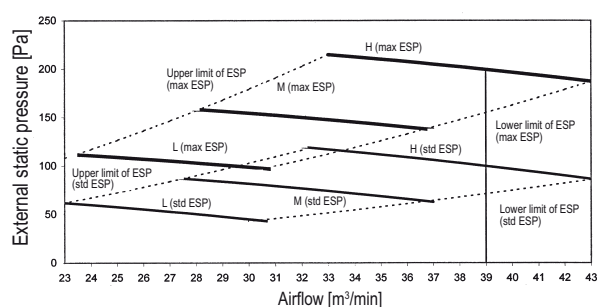
3TW32728-1

NOTES

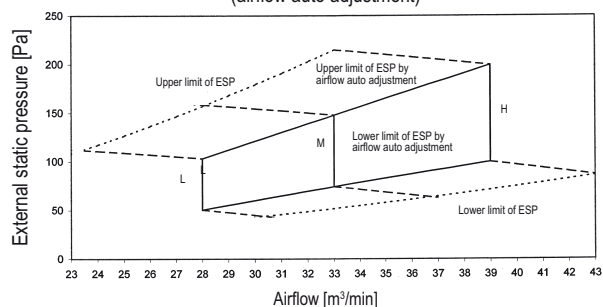
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure.

FXMQ125P7

Fan characteristics (1)

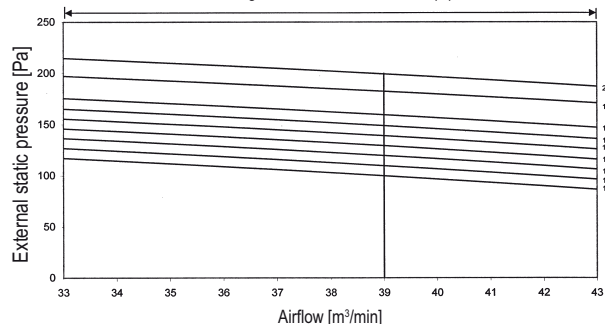


Fan characteristics (3)
(airflow auto adjustment)



Fan characteristics (2)
(Field setting with remote control)

Range of available air flow rate (H)



3TW32738-1

NOTES

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



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