

Air Conditioning Technical Data

FXMQ-P7



- > FXMQ50P7VEB9
- > FXMQ63P7VEB9
- > FXMQ80P7VEB9
- > FXMQ100P7VEB9
- > FXMQ125P7VEB9

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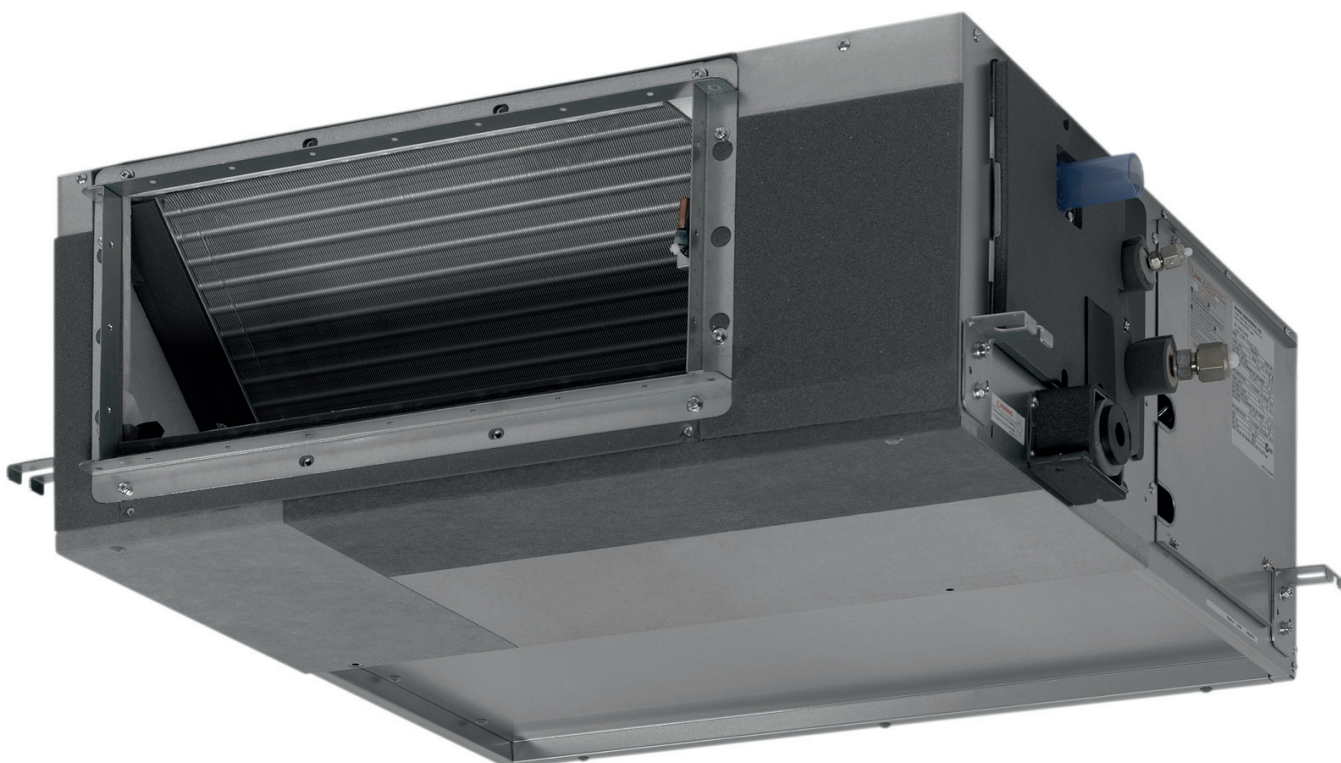
FXMQ-P7

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1 Features

ESP up to 200, ideal for large sized spaces

- Possibility to change ESP via wired remote control allows optimisation of the supply air volume
- High external static pressure up to 200Pa facilitates extensive duct and grille network
- Discretely concealed in the wall: only the suction and discharge grilles are visible
- Reduced energy consumption thanks to specially developed DC fan motor
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required
- Flexible installation, as the air suction direction can be altered from rear to bottom suction
- Standard built-in drain pump with 625mm lift increases flexibility and installation speed



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					FXMQ50P7		FXMQ63P7		FXMQ80P7		FXMQ100P7		FXMQ125P7			
Cooling capacity	Nom.			kW	5.6 (1)		7.1 (1)		9.0 (1)		11.2 (1)		14.0 (1)			
Heating capacity	Nom.			kW	6.3 (2)		8.0 (2)		10.0 (2)		12.5 (2)		16.0 (2)			
Power input - 50Hz	Cooling	Nom.		kW	0.110 (1)		0.120 (1)		0.171 (1)		0.176 (1)		0.241 (1)			
	Heating	Nom.		kW	0.098 (2)		0.108 (2)		0.159 (2)		0.164 (2)		0.229 (2)			
Required ceiling void >				mm	350											
Dimensions	Unit	Height	mm		300											
		Width	mm		1,000					1,400						
		Depth	mm		700											
		Packed unit	Height	mm		355										
	Packed unit	Width	mm		1,220					1,620						
		Depth	mm		900											
		Weight	Unit			kg	35					46				
	Packed unit			kg	42					54						
Casing	Colour				Unpainted											
	Material				Galvanised steel plate											
Decoration panel	Model				BYBS71DJW1						BYBS125DJW1					
	Colour				White (10Y9/0.5)											
	Dimensions	Height	mm		55											
		Width	mm		1,100					1,500						
		Depth	mm		500											
	Weight				kg	4.5					6.5					
Heat exchanger	Tube type				ø7 Hi-XSS											
	Fin	Type			Symmetric waffle louvre											
		Treatment			Hydrophilic											
Fan	Type				Sirocco fan											
	Quantity				2						3					
	Air flow rate - 50Hz	Cooling	High	m³/min	18	19.5		25		32		39				
			Low	m³/min	15	16		20		23		28				
		Heating	High	m³/min	18	19.5		25		32		39				
			Low	m³/min	15	16		20		23		28				
	Air flow rate - 60Hz	Cooling	High	m³/min	18	19.5		25		32		39				
			Low	m³/min	15	16		20		23		28				
			Nom.	m³/min	16.5	17.8		22.5		27.5		33.5				
			Heating	High	m³/min	18	19.5		25		32		39			
		Heating	Low	m³/min	15	16		20		23		28				
			Nom.	m³/min	16.5	17.8		22.5		27.5		33.5				
			External static pressure - 50Hz	High	Pa		200 (3)									
				Nom.	Pa		100									
	External static pressure - 60Hz	High	Pa		200											
		Nom.	Pa		100											
	Fan motor	Quantity				1										
		Model				Brushless DC motor										
Speed		Steps		14												
Output		High	W	350												
Drive				Direct drive												
Air filter	Type				Resin net with mold resistance											
Sound power level	Cooling	High	dBA	61	64	67		65		70						
Sound pressure level	Cooling	High	dBA	41	42	43		44								
		Nom.	dBA	39	40	41		42								
		Low	dBA	37	38	39		40								
	Heating	High	dBA	41	42	43		44								
		Nom.	dBA	39	40	41		42								
		Low	dBA	37	38	39		40								
Refrigerant	Type				R-410A											
	Control				Electronic expansion valve											

2 Specifications

2-1 Technical Specifications				FXMQ50P7	FXMQ63P7	FXMQ80P7	FXMQ100P7	FXMQ125P7
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				
Drain-up height			mm	625				
Safety devices	Item	01		PC board fuse				
		02		PC board fuse (fan driver)				
		03		Drain pump fuse				
Control systems	Infrared remote control			BRC4C65				
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52				
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)				

2-2 Electrical Specifications				FXMQ50P7	FXMQ63P7	FXMQ80P7	FXMQ100P7	FXMQ125P7
Power supply	Name			VE				
	Phase			1~				
	Frequency		Hz	50/60				
	Voltage		V	220-240/220				
Voltage range	Max.		%	10				
	Min.		%	-10				
Current - 50Hz	Minimum circuit amps (MCA)		A	1.4		1.7	2.3	2.9
	Maximum fuse amps (MFA)		A	16				
Current - 60Hz	Minimum circuit amps (MCA)		A	1.4		1.7	2.3	2.9
	Maximum fuse amps (MFA)		A	16.0				

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) Contains fluorinated greenhouse gases

Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.

The sound pressure values are mentioned for a unit installed with rear suction.

Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.

Maximum allowable voltage range variation between phases is 2%.

Select wire size based on the value of MCA

Use a circuit breaker instead of a fuse.

3 Electrical data

3 - 1 Electrical Data

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Units						Power supply	
Model	Type	Hz	Voltage range	Min.	Max.	MCA	MFA
FXMQ50P7	VE	50/60	220~240V/ 220V	-10%	+10%	1.4	16
FXMQ63P7						1.4	16
FXMQ80P7						1.7	16
FXMQ100P7						2.3	16
FXMQ125P7						2.9	16

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 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.

SYMBOLS

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

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4 Safety device settings

4 - 1 Safety Device Settings

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	Safety devices	50	63	80	100	125
FXMQ	PC board fuse	250V 3,15A	250V 3,15A	250V 3,15A	250V 3,15A	250V 3,15A
	PC board fuse (fan driver)	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

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5 Options

5 - 1 Options

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Options

Nr.	Item	Type	FXMQ50,63,80	FXMQ100,125
1	Air discharge adapter for round ducts		KDAJ25K71A	KDAJ25K140A

Control systems

Nr.	Item	Type	FXMQ50,63,80	FXMQ100,125
1	Remote control	Wired	BRC1D528 / BRC1C62 (*5) / BRC1E52A7 (*6) / BRC1E52B7 (*7)	
		Infrared		BRC4C65
		H/P		BRC4C66
		C/O		BRC2E52C7 (*8)
2	Simplified remote control (with operation mode selector button)			BRC3E52C7 (*8)
3	Simplified remote control (without operation mode selector button)			EKRP1B2A (*1) (*2) (*3) (*4)
4	Optional PCB for external electric heaters, humidifiers and/or hour meters.			KRP1C64 (*4)
5	Adapter for wiring (interlock for fresh air intake fan)			KRP2A51 (*2) (*4)
6.1	Wiring adapter for electrical appendices (1)			KRP4A51 (*4)
6.2	Wiring adapter for electrical appendices (2)			KRCS01-4B
7	Remote sensor			DCS302CA51 / DCS302CA61 (*5)
8	Centrak remote control			KJB311A
8.1	Electrical box with earth terminal (3 blocks)			DCS301BA51 / DST301BA61 (*5)
9	Unified ON/OFF controller			KJB212A
9.1	Electrical box with earth terminal (2 blocks)			DST301BA51 / DST301BA61 (*5)
10	Schedule timer			DTA104A61 (*4)
11	External adapter for outdoor unit (installation on indoor unit)			DTA114A61 (*4)
12	PCB for multi-tenant indoor units			KRP4A96
13	Mounting plate for adapter PCB			BRP7A51 (*4) (*9)
14	Digital input adapter			

NOTES

- (*1) Electric heaters and humidifiers are field-supplied. Do not install them inside the equipment (refer to installation manual EKRP1B2A).
- (*2) When installing electric heaters, an optional PCB for external electric heaters (EKRP1B2A) is required for each indoor unit.
- (*3) Electric heaters cannot be used in combination with cooling-only VRF systems.
- (*4) These options require mounting plate KRP4A96. Maximally 2 optional PCB's can be mounted.
- (*5) BRC1C62, DCS302CA61, DCS301BA61 & DST301BA61: only for the Middle East region.
- (*6) Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian, Turkish and Polish.
- (*7) Included languages are: English, German, Albanian, Bulgarian, Croatian, Czech, Hungarian, Romanian, Serbian, Slovak and Slovenian.
- (*8) Included languages are:
Language pack 1: English, German, French, Dutch, Spanish, Italian and Portuguese.
With PC cable EKPCAB3 in combination with the updater PC software, you can additionally change the language to:
Language pack 2: English, Bulgarian, Croatian, Czech, Hungarian, Romanian and Slovenian.
Language pack 3: English, Greek, Polish, Russian, Serbian, Slovak and Turkish.
- (*9) Only possible in combination with simplified remote control BRC2/3E52C7.

Contents of the accessory bag

Description	Quantity
	FXMQ50,63,80,100,125
Hexagon tapping screw (M5x16)	16
Round plain washer for wood	8
Installation and operation manual	1
Hose band clamp	1
Joint insulation (gas)	1
Joint insulation (liquid)	1
Drain hose	1
Drain hose sealing material	1
Sealing material	2

3TW32659-3C

6 Capacity tables

6 - 1 Cooling Capacity Tables

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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
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

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

- 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 seçiminden sonra tasarım gerekleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipmanın gerçek çalışma kapasitesi tabloda belirtilenden farklı olacaktır.
 - В случае, если реальные условия отличаются от проектных условий работы, используемых при выборе системы, фактические характеристики устанавливаемого в помещении оборудования
- 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.

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6 Capacity tables

6 - 2 Heating Capacity Tables

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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
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

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 - Sistem seçiminden sonra tasarım gerekleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipmanın gerçek çalışma kapasitesi tabloda belirtilenden farklı olacaktır.
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3TW25512-2B

7 - 1 Dimensional Drawings

Item	Name	Description
1	Liquid pipe connection	Ø6.35 Flare connection
2	Gas pipe connection	Ø12.70 Flare connection
3	Drain pipe connection	VP25 (0D Ø32, ID Ø25)
4	Remote control wiring connection	-
5	Power supply connection	-
6	Drain hole	VP20 (0D Ø32, ID Ø25)
7	Air filter	-
8	Air suction side	-
9	Air discharge side	-
10	Nameplate	-

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

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Technical Drawings:

- Top View (Left):** Shows the unit's footprint with dimensions: 1000mm width, 760mm depth, and 67mm height. It includes a "Fresh air intake position" (Knock out hole) and a "6 x M5 (On circumference)" specification.
- Side View (Top):** Shows the unit's profile with dimensions: 300mm height, 785mm depth, and 500mm or more service space. It includes a "Suspension bolt" and a "5x150 = 750" dimension.
- Side View (Bottom):** Shows the unit's profile with dimensions: 300mm height, 785mm depth, and 500mm or more service space. It includes a "Suspension bolt" and a "5x150 = 750" dimension.
- Detail B (Right):** A detailed view of the unit's internal components, showing various connections and components labeled 1 through 10.
- Top View (Right):** Shows the unit's footprint with dimensions: 1000mm width, 760mm depth, and 67mm height. It includes a "Fresh air intake position" (Knock out hole) and a "6 x M5 (On circumference)" specification.
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- Top View (Bottom):** Shows the unit's footprint with dimensions: 1000mm width, 760mm depth, and 67mm height. It includes a "Fresh air intake position" (Knock out hole) and a "6 x M5 (On circumference)" specification.
- Side View (Bottom):** Shows the unit's profile with dimensions: 300mm height, 785mm depth, and 500mm or more service space. It includes a "Suspension bolt" and a "5x150 = 750" dimension.
- Detail B (Bottom):** A detailed view of the unit's internal components, showing various connections and components labeled 1 through 10.

Parts List:

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	-

NOTES

- Refer to the outlook drawing of optional accessories when installing the unit.
- The required ceiling depth varies according to the configuration of the system.
- For maintenance of the air filter, it is necessary to provide a service access panel.
- Optional decoration panel: BYBS71DJW1 (light ivory white 10Y9/0.5)

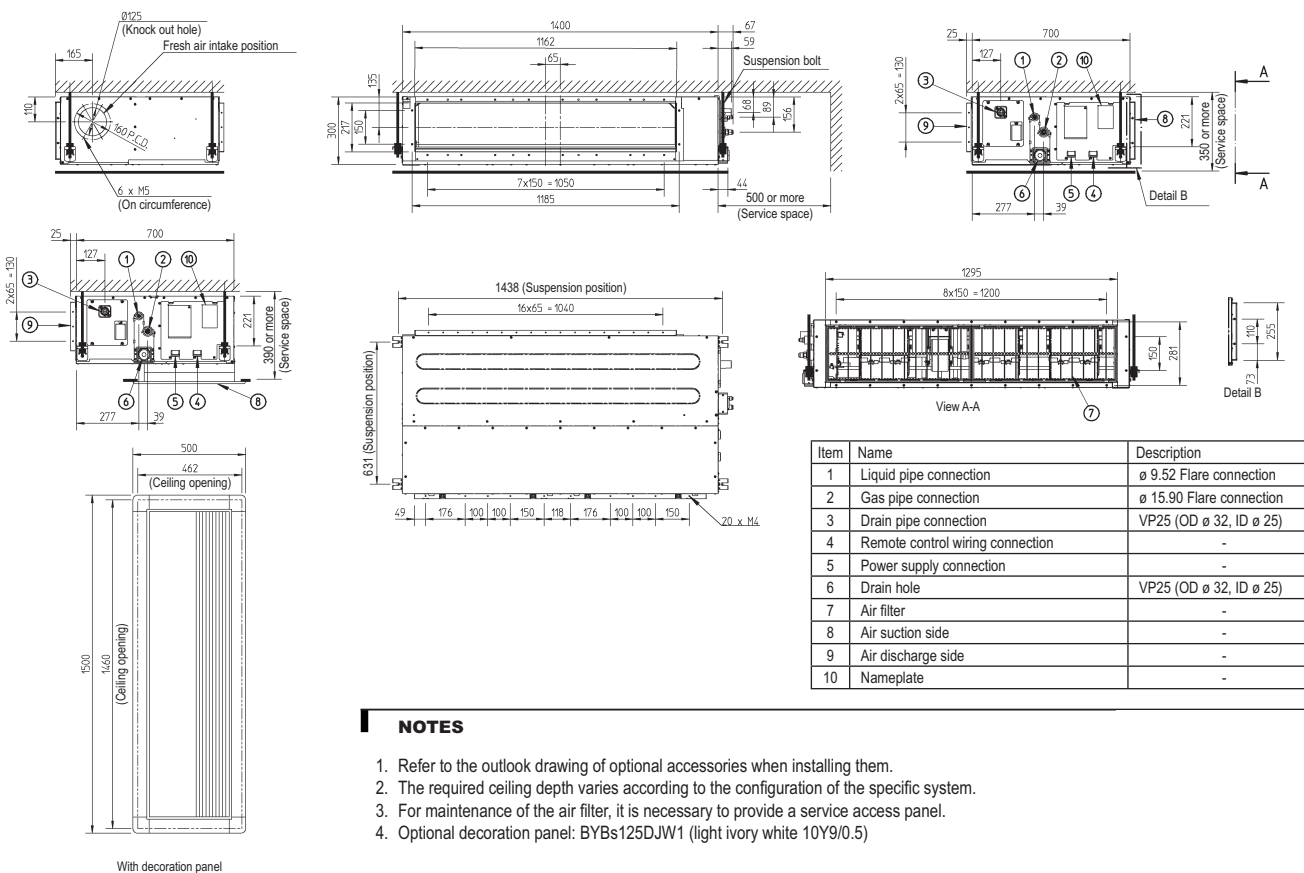
1. Refer to the outlook drawing of optional accessories when installing them.
2. The required ceiling depth varies according to the configuration of the specific system.
3. For maintenance of the air filter, it is necessary to provide a service access panel.
4. Optional decoration panel: BYBS71DJW1 (light ivory white 10Y9/0.5)

3TW31234-1B

7 Dimensional drawings

7 - 1 Dimensional Drawings

FXMQ100-125P7



NOTES

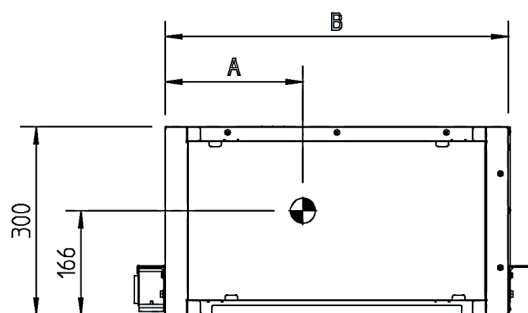
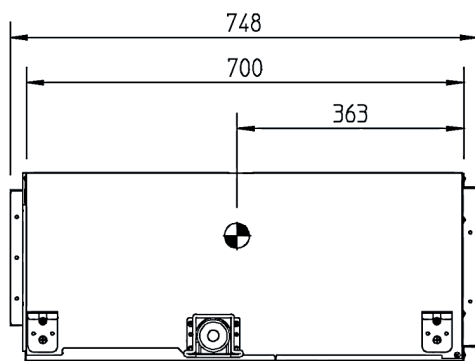
1. Refer to the outlook drawing of optional accessories when installing them.
2. The required ceiling depth varies according to the configuration of the specific system.
3. For maintenance of the air filter, it is necessary to provide a service access panel.
4. Optional decoration panel: BYBs125DJW1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

3TW31254-1B

8 Centre of gravity

8 - 1 Centre of Gravity

FXMQ-P7

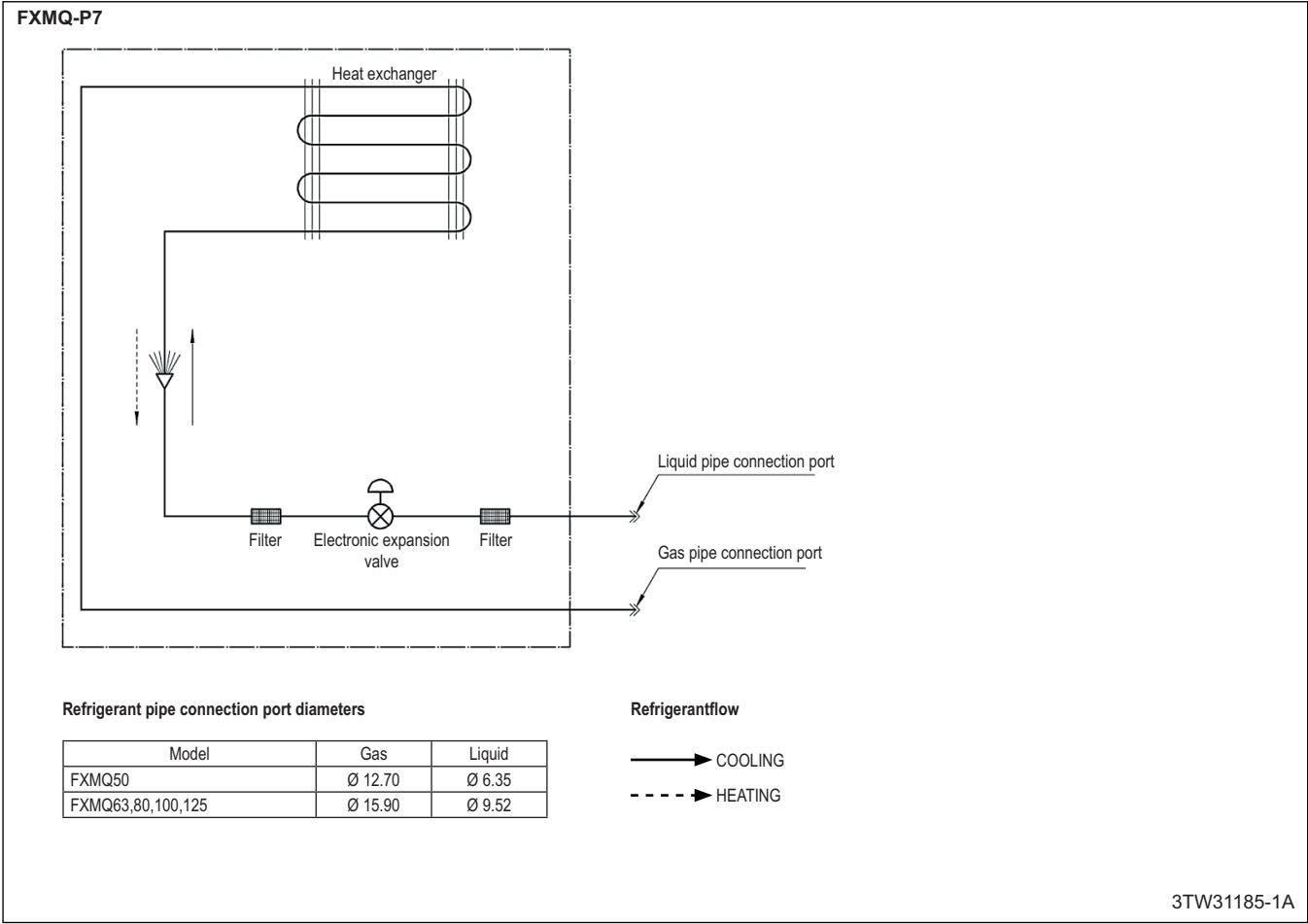


Model	A	B
FXMQ50,63,80	441	1000
FXMQ100,125	619	1400

4TW31189-1B

9 Piping diagrams

9 - 1 Piping Diagrams



10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

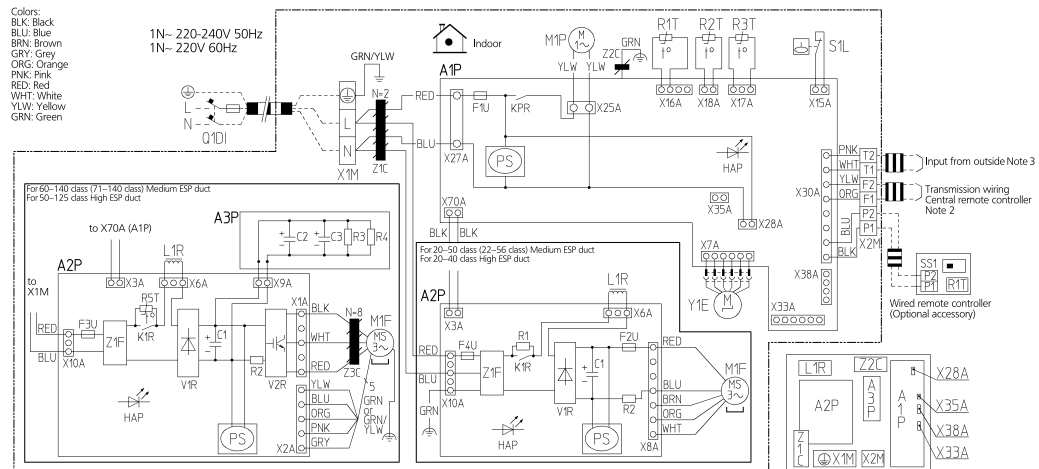
10

FXMQ50-125P7

- Indoor unit
- A1P : Printed circuit board
 - A2P : Printed circuit board (Fan)
 - A3P : Printed circuit board (Capacitor)
 - C1,C2,C3 : Capacitor
 - F1U : Fuse (T, 3.15A, 250V)
 - F2U : Fuse (T, 5A, 250V)
 - F3U : Fuse (T, 6.3A, 250V)
 - F4U : Fuse (T, 6.3A, 250V)
 - HAP : Light emitting diode (Service monitor-green)
 - KPR : Magnetic relay
 - L1R : Reactor
 - M1F : Motor (Fan)
 - M1P : Motor (Drain pump)
 - PS : Switching power supply
 - Q1DI : Earth leak detector
 - R1 : Resistor (current limiting)
 - R2 : Resistor (Electric discharge)
 - R3,R4 : Thermistor (Suction air)
 - R11 : Thermistor (liquid)
 - R2T : Thermistor (Gas)
 - R3T : Thermistor NTC (current limiting)
 - S1L : Float switch
 - V1R : Diode bridge
 - V2R : Power module
 - X1M : Terminal strip (Power supply)
 - X2M : Terminal strip (control)
 - Y1E : Electronic expansion valve
 - Z1C,Z2C,Z3C : Noise filter
 - Z1F : Noise filter
- Connector optional accessory
- X28A : Connector (Power supply for wiring)
 - X33A : Connector (for wiring)
 - X35A : Connector (Adapter)
 - X38A : Connector (for wiring)
- Wired remote controller
- R1T : Thermistor (air)
 - SS1 : Selector switch (main/sub)

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

1N~ 220-240V 50Hz
1N~ 220V 60Hz



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

Field wiring

A3P Only for 60~140 class (71~140 class) Medium ESP duct
A3P Only for 50~125 class High ESP duct

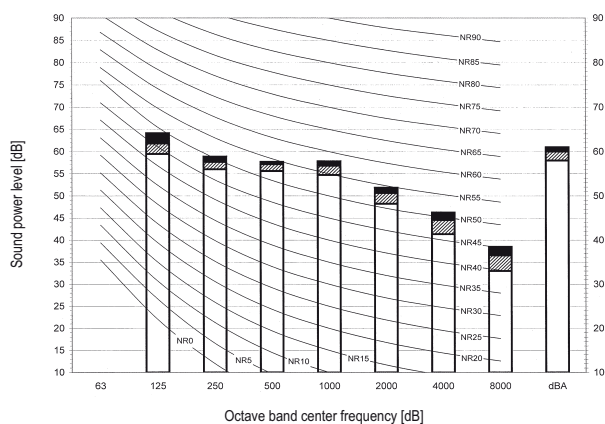
L : Live
N : Neutral
PE : Protective earth (screw)

2TW32656-2

11 Sound data

11 - 1 Sound Power Spectrum

FXMQ50P7

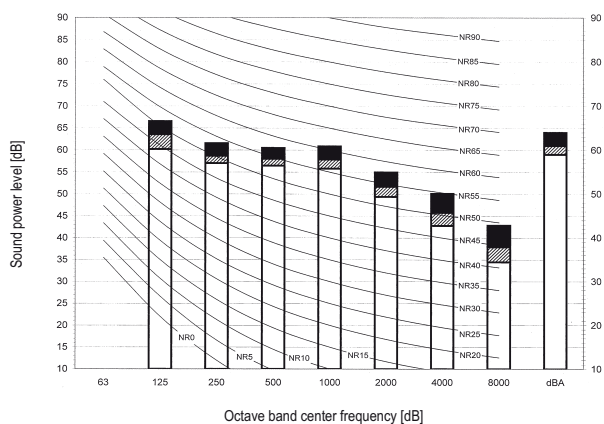


3TW32697-1

NOTES

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

FXMQ63P7

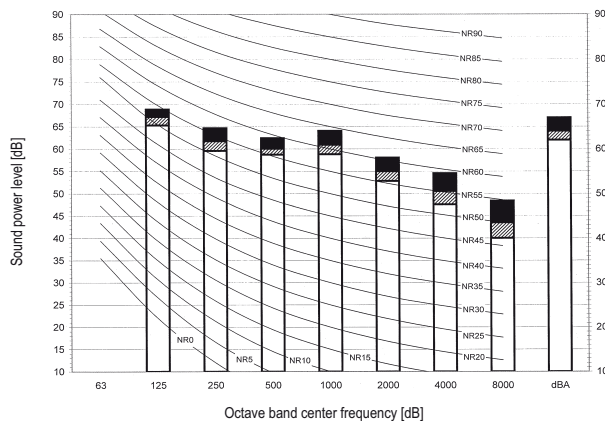


3TW32707-1

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

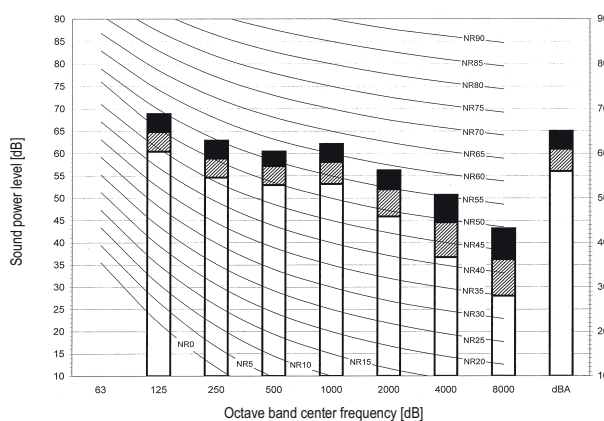


3TW32717-1

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

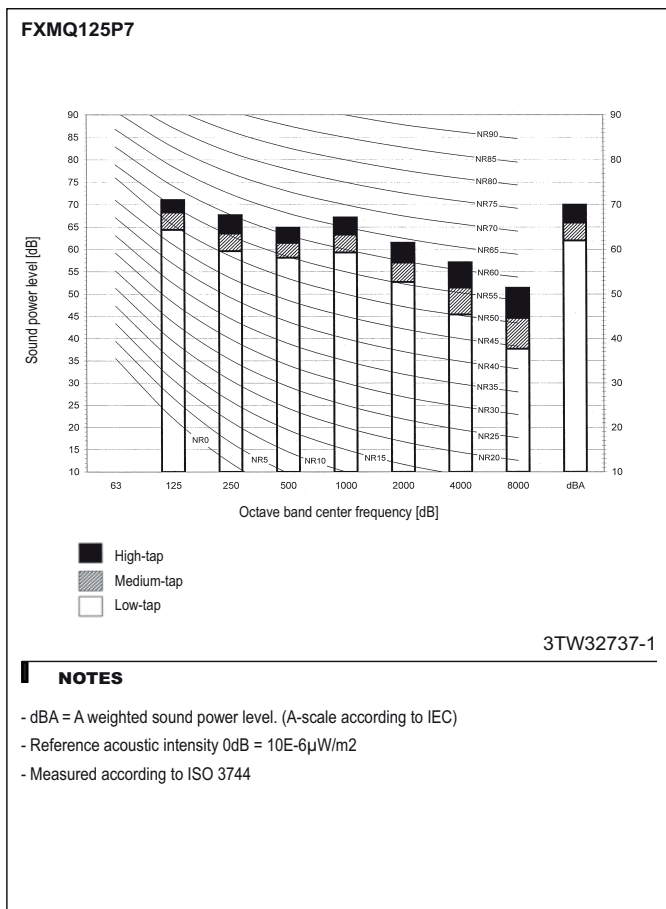
NOTES

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

11 Sound data

11 - 1 Sound Power Spectrum

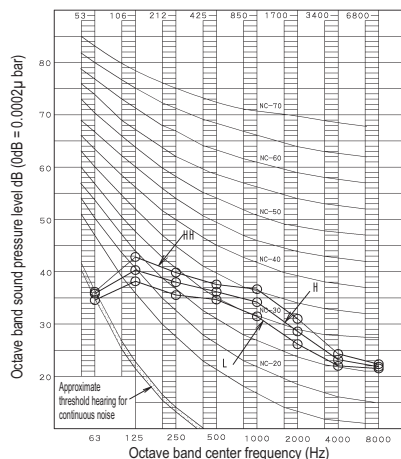
11



11 Sound data

11 - 2 Sound Pressure Spectrum

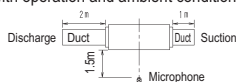
FXMQ50P7



4D060428B

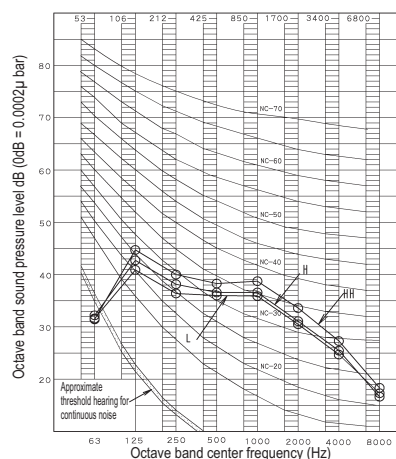
NOTES

- 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.



Scale	Air flow rate		
	HH	H	L
A	41.0	39.0	37.0
C	46.0	44.0	42.0

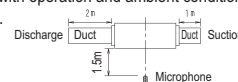
FXMQ63P7



4D060447B

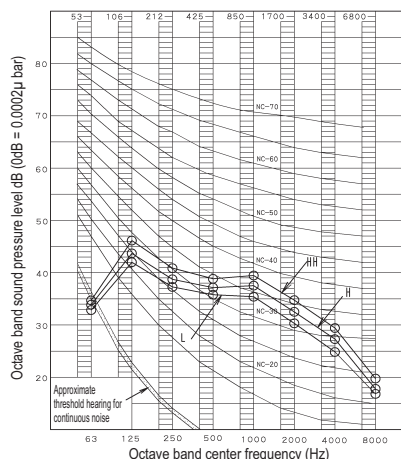
NOTES

- 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.



Scale	Air flow rate		
	HH	H	L
A	42.0	40.0	38.0
C	48.0	46.0	44.0

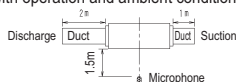
FXMQ80P7



4D060429B

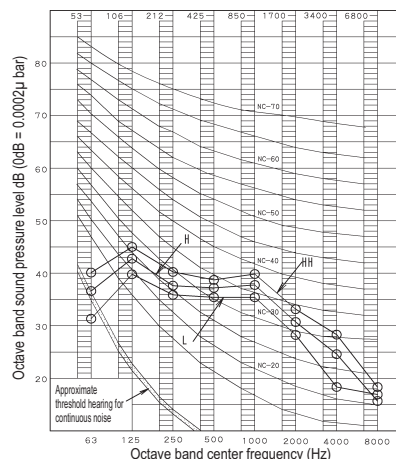
NOTES

- 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.



Scale	Air flow rate		
	HH	H	L
A	43.0	41.0	39.0
C	49.0	47.0	45.0

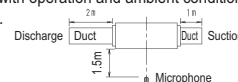
FXMQ100P7



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.



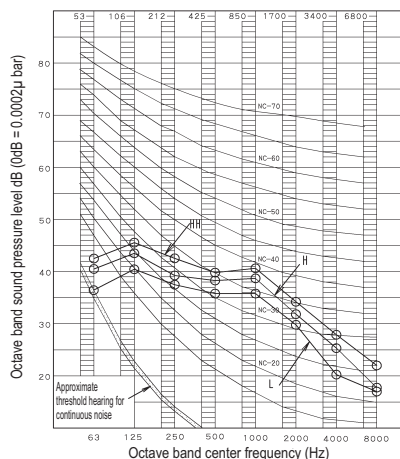
Scale	Air flow rate		
	HH	H	L
A	43.0	41.0	39.0
C	49.0	46.0	44.0

11 Sound data

11 - 2 Sound Pressure Spectrum

11

FXMQ125P7

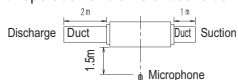


4D060449B

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.

Scale	Air flow rate		
	HH	H	L
A	44.0	42.0	40.0
C	50.0	48.0	45.0

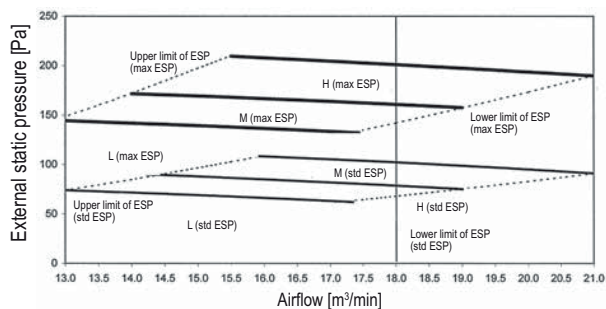


12 Fan characteristics

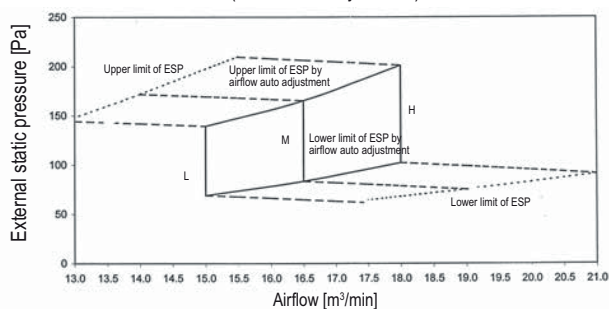
12 - 1 Fan Characteristics

FXMQ50P7

Fan characteristics (1)

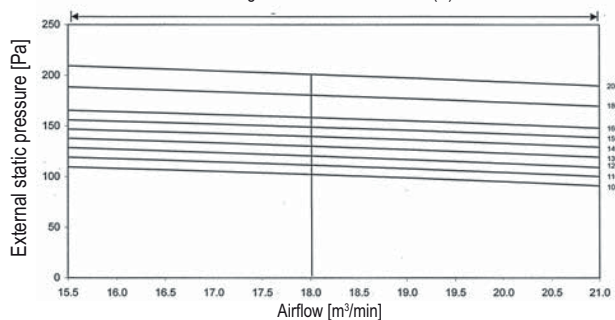


Fan characteristics (3)
(airflow auto adjustment)



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

Range of available air flow rate (H)



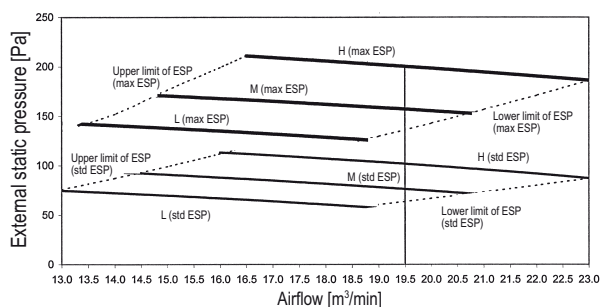
3TW32698-1

NOTES

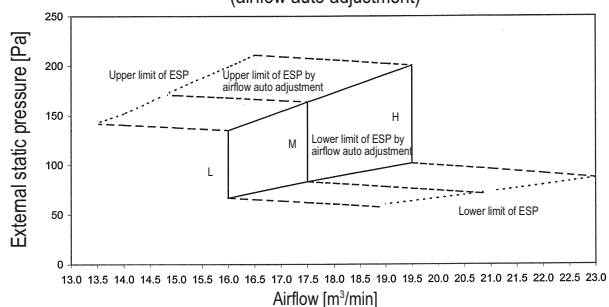
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

FXMQ63P7

Fan characteristics (1)

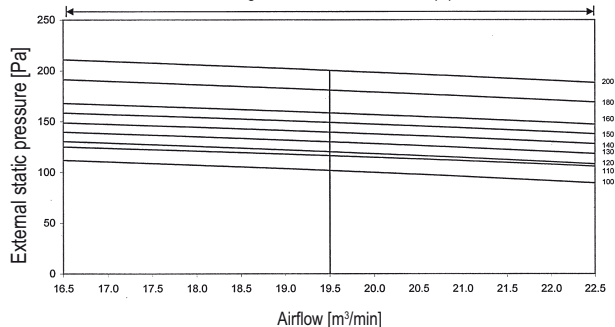


Fan characteristics (3)
(airflow auto adjustment)



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

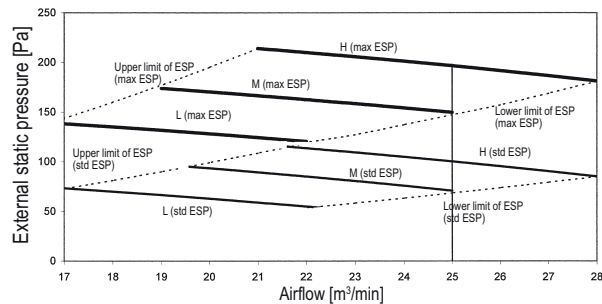
12 Fan characteristics

12 - 1 Fan Characteristics

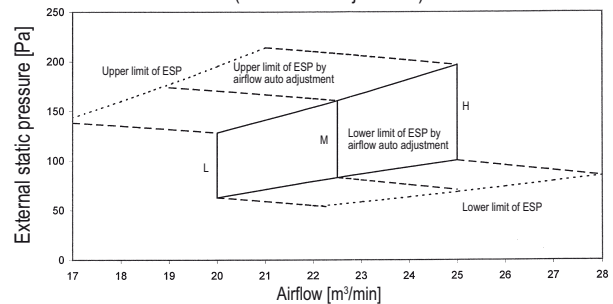
12

FXMQ80P7

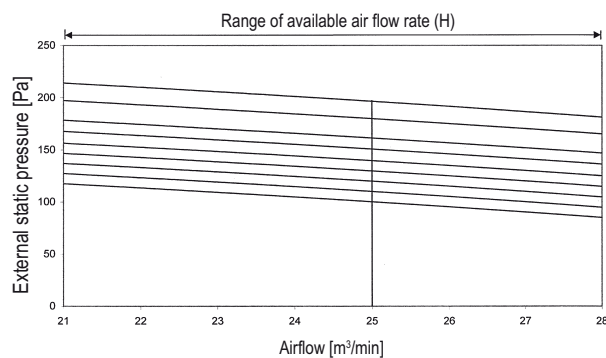
Fan characteristics (1)



Fan characteristics (3)
(airflow auto adjustment)



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



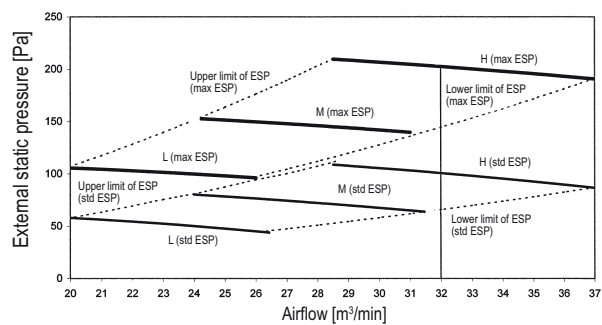
3TW32718-1

NOTES

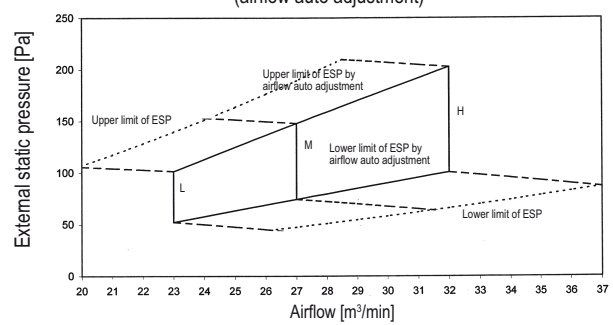
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure

FXMQ100P7

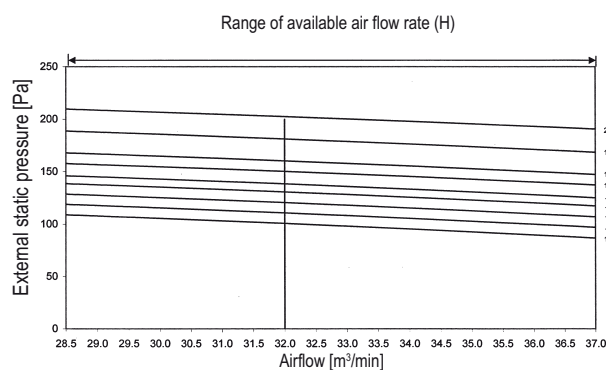
Fan characteristics (1)



Fan characteristics (3)
(airflow auto adjustment)



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



3TW32728-1

NOTES

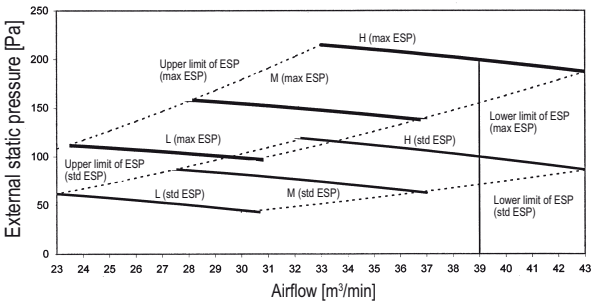
1. Fan characteristics as shown are in "fan only" mode.
2. ESP: External static pressure.

12 Fan characteristics

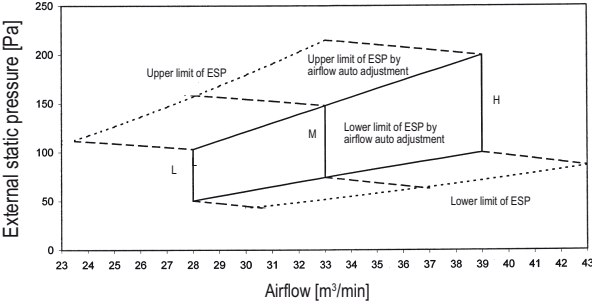
12 - 1 Fan Characteristics

FXMQ125P7

Fan characteristics (1)

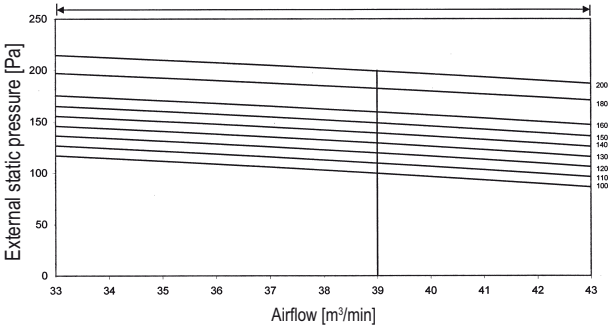


Fan characteristics (3)
(airflow auto adjustment)



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

Range of available air flow rate (H)



3TW32738-1

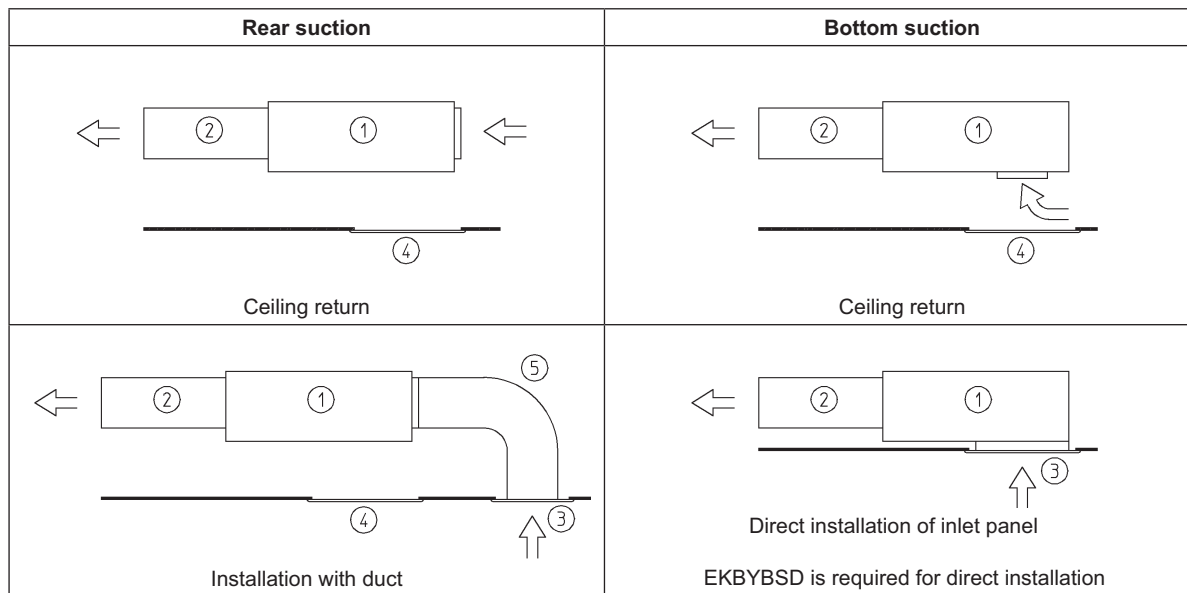
NOTES

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

13 Installation

13 - 1 Installation Method

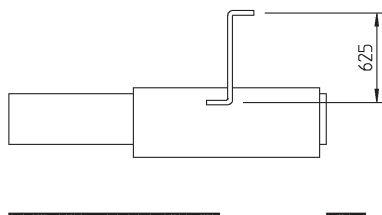
FXMQ-P7



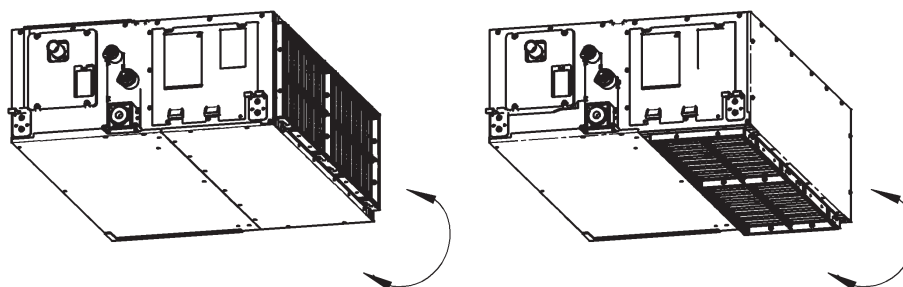
Wide variety of installation methods

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

Drain pump up height



Easy modification from rear to bottom suction

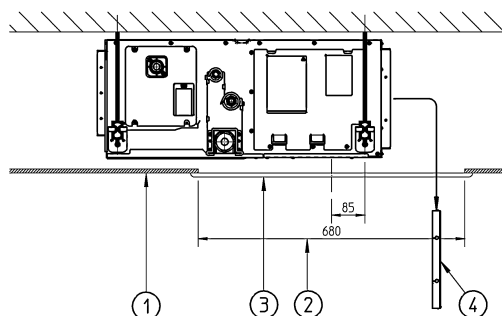


3TW31183-1A

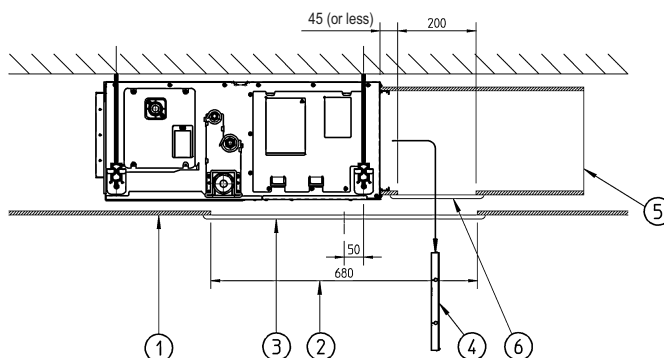
13 Installation

13 - 2 Filter Installation Method

FXMQ-P7

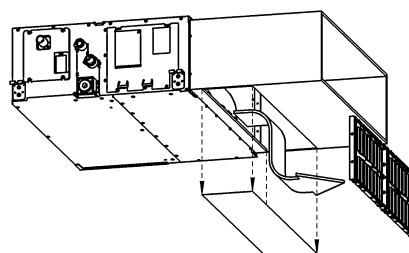


Installation without air inlet duct



Installation with air inlet duct

Number	Description
1	Suspended ceiling
2	Ceiling opening
3	Service access panel (optional)
4	Air Filter
5	Air inlet duct
6	Duct service opening



3TW31184-4

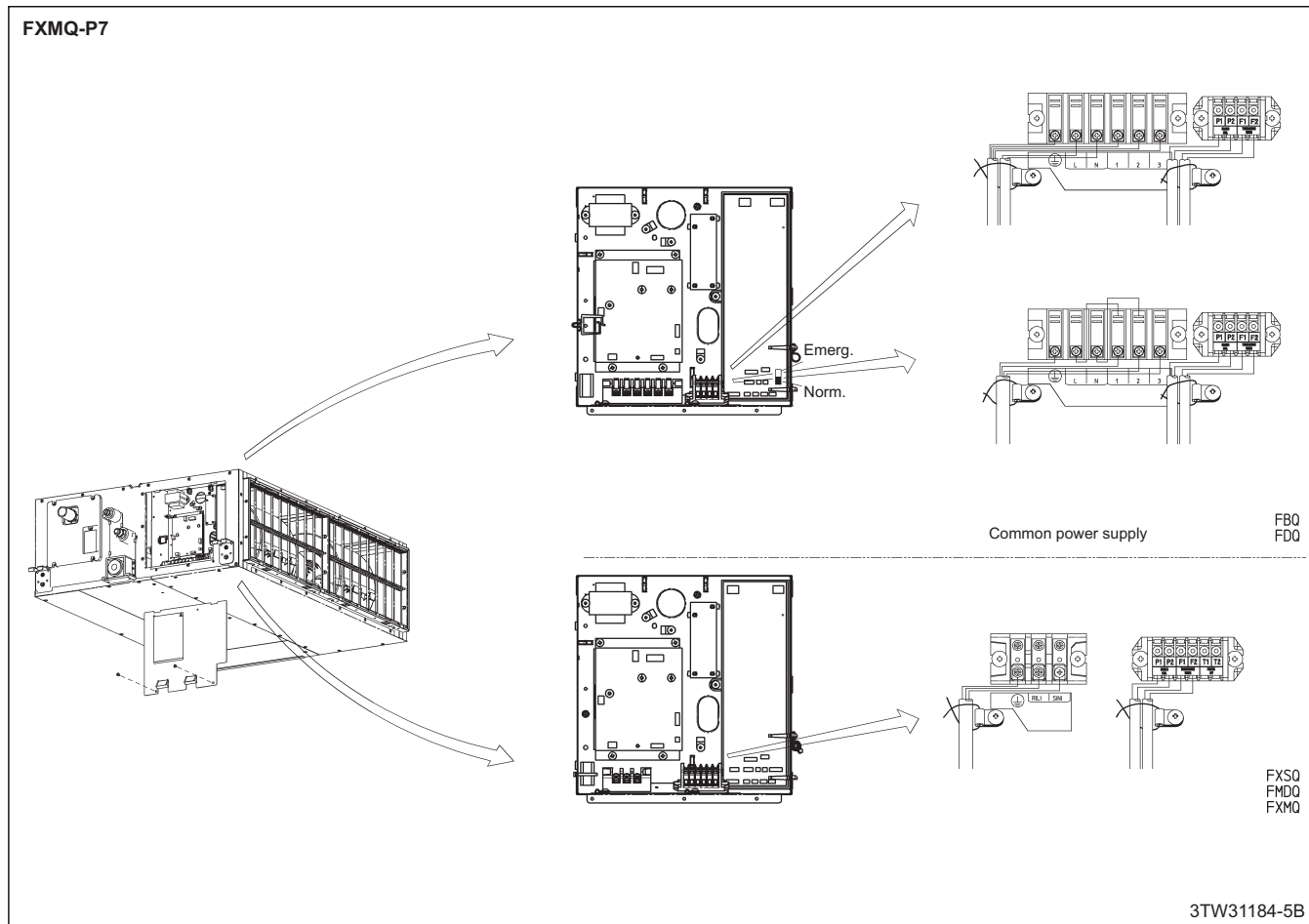
NOTES

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

13 Installation

13 - 3 Switch Box Connection

13





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02/17



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