

Concealed ceiling unit with high ESP Air Conditioning Technical Data FXMQ-MB





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Features

FXMQ-MB 1 - 1

- > High external static pressure up to 270Pa facilitates extensive duct and grille network
- > Discretely concealed in the wall: only the suction and discharge grilles are visible
- > Large capacity unit: up to 31.5 kW heating capacity
- > Reduced energy consumption thanks to specially developed DC fan motor





Inverter



Home leave operation



Fan only



Auto coolingheating changeover (heat pump)





Auto-restart





programme

Fan speed steps (2 steps)



Air filter (optional)



Weekly timer (optional)



Infrared remote control (optional)



Wired remote control (optional)



control

(optional)

Centralised



Self diagnosis





(optional)





2 Specifications

1-1 FXMQ-MB

Technical spec	cificatio	ns		FXMQ200MB	FXMQ250MB				
Cooling capacity	Sensible	At high fan speed	kW	16.8	20.9				
	capacity								
	Latent	At high fan speed	kW	5.6	7.1				
	capacity								
	Total	At high fan speed	kW	22.4 (1)	28.0 (1)				
	capacity								
Heating capacity	Total	At high fan speed	kW	25.0 (2)	31.5 (2)				
	capacity								
Power input - 50Hz		At high fan speed	kW	0.895	1.185				
	Heating	At high fan speed	kW	0.895	1.185				
Dimensions	Unit	Height	mm	470					
		Width	mm	1,380					
		Depth	mm	1,100					
Neight	Unit		kg	132					
Casing	Material			Galvanised st	eel plate				
Heat exchanger	Rows	Quantity		3					
	Fin pitch		mm	2.0					
	Face area		m²	0.68					
	Stages	Quantity		26					
an	Туре			Sirocco	fan				
	Air flow	Cooling At high fan speed	m³/min	58	72				
	rate -	At medium fan	m³/min	54.0	67.0				
	50Hz	speed							
		At low fan speed	m³/min	50	62				
	External	Factory set	Pa	160	170				
	static	High	Pa	270					
	pressure								
	50Hz								
an motor	Output	High	W	1,100					
	Drive			Direct d	rive				
Sound power level	Cooling	At high fan speed	dBA	76					
		At medium fan speed	dBA	75					
		At low fan speed	dBA	73					
Sound pressure	Cooling	At high fan speed	dBA	48					
evel		At low fan speed	dBA	45					
an motor	Model	·		2D1 3/4 G2	2 CM1				
Refrigerant	Туре			R-410.	A				
-	GWP			2,087.					
	Control			Electronic expa					
Piping connections		Туре		Flare conn					
, 5	4	OD	mm	9.52					
	Gas	Туре		Braze conn	ection				
		OD	mm	19.1	22.2				
Piping connections	Drain			PS1B					
	Heat insu	lation		Glass fil					
		sorbing insulation		Glass fiber					
Safety devices	Item	01		Fuse					
carety acrices		02							
, · · · · · · · · · · · · · · · · · · ·				Fan driver overload protector BRC4C65 / BRC4C66					
Control systems Infrared remote control Wired remote control				BRC4C65 / BRC4C66 BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					
Control systems				BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52 BRC2E52C (heat recovery type)					
control systems			·ol	DDC2E2C/bastwo	ocovory typo)				
,		d wired remote control for hot	el	BRC2E52C (heat re	ecovery type)				

Standard accessories: Installation and operation manual;Quantity:;

Standard accessories: Connection pipes; Quantity:;

 ${\tt Standard\ accessories: Sealing\ pads; Quantity:;}$

 ${\it Standard\ accessories: Clamps;} Quantity:;$

Standard accessories: Screws; Quantity:;

Electrical sp	ecifications		FXMQ200MB	FXMQ250MB		
Power supply	Name		VE			
	Phase		1~			
	Frequency	Hz	50			
	Voltage	V	220-24	0		
Current - 50Hz	Minimum circuit amps (MCA)	Α	10.3			
	Maximum fuse amps (MFA)	Α	16			
	Full load amps (FLA) Total	Α	4.3	5.6		
Voltage range	Max.	%	10			
	Min.	%	-10			

(1)Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m (horizontal) | (2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m (horizontal) | Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. |





Specifications 2

1 - 1 FXMQ-MB

The external static pressure is changeable: change the connectors inside the electrical box, this pressure means: High static pressure - Standard |
The air filter is not a standard accessory, but please mount it in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more. |
Sound pressure levels are measured at 220V. |
Sound values are measured in an anechoic room. |
Operation of the body of the pressure is considered and in the pressure is considered at 220V. |

Operation sound differs with operation and ambient conditions |
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%. | MCA/MFA: MCA = 1.25 x FLA |

MCA/MFA: MCA = 1.23 x FLA |
MFA ≤ 4 x FLA |
Next lower standard fuse rating minimum 15A |
Select wire size based on the value of MCA |
Instead of a fuse, use a circuit breaker |
Contains fluorinated greenhouse gases



Electrical data 3

Electrical Data 3 - 1

FXMQ-MB

	Units					supply	IFI	M	Input (W)	
Model	Type	Hz	Volts	Voltage range	MCA	MFA	kW	FLA	Cooling	Heating
FXIMQ200MB	VE	EO	220-240V	Max. 264V	10.3	16	1100	4.3	895	895
FXIMQ250MB	VE	30	ZZU - Z4UV	Min. 198V	10.3	16	1100	5.6	1185	1185

SYMBOLS

MCA : Min. Circuit Amps. (A) MFA : Max. Fuse Amps. (See note 5) : Fan Motor Rated Output (kW) kW FLA : Full Load Amps. (A) : Indoor Fan Motor. **I**FM

NOTES

- 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.
- Maximum allowable voltage unbalance between phases is 2%.
- MCA/MFA
 MCA=1.25xFLA
 MFA≤4xFLA
 (next lower standard fuse rating, min.15A)

- 4 Select wire size based on the MCA.
- 5 Instead of fuse, use circuit breaker.

4D040330B





4 Safety device settings

4 - 1 Safety Device Settings

	Safety devices	20	25	32	40	50	63	80	100	125	140	200
	PC boad fuse	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A		
FXS~LVE FXSQ~MVE	Fan motor thermal protector °C	OFF:135±5 (ON:36±15)	OFF:135±5 (ON:86±15)	0FF: 135±5 (0N:86±15)	OFF: 135±5 (ON: 36±15)	OFF:135±5 (ON:86±15)	OFF: 135±5 (ON: 86±15)	(DN:94±15)	0FF:145±5 (0N:94±15)	(DN:94±15)		
I NOG - IIVE	Drain pump thermal fuse °C		169	169	169	169	169	169	169	169		
FXH~LVE FXHQ~MVE	PC boad fuse			250V 5A			250V 5A		250V 5A			
FXHQ~MVET	Fan motor thermal protector °C			0FF:130 ±5 0N:80 ±20			0FF:130 ±5 0N:80 ±20		OFF: 130 ±5 ON: 30 ±20			
FXC~LVE	PC boad fuse	250V 5A	250V 5A	250V 5A	250V 5A	250V 5A	250V 5A	250V 5A		250V 5A		
FX∞~MVE	Fan motor thermal protector °C	(ON: 86±15)	OFF: 135±5 (ON: 36±15)	OFF: 135±5 (ON: 36±15)	0FF:135±5 (0N:86±15)	OFF: 135±5 (ON: 86±15)	OFF: 145±5 (ON: 94±15)	OFF: 145±5 (ON: 94±15)		OFF: 145±5 (ON: 94±15)		_
	Drain pump thermal fuse °C		169	169	169	169	169	169		169		
	PC boad fuse		250V 5A	250V 5A	250V 5A		250V 5A					
FXK∼LVE	Fan motor thermal fuse °C		146 ^{±3}	146 ±3		—						
FXKQ~M/E	Fan motor thermal protector °C				0FF:120 ± 5 0N:105 or less		0FF:120±5 0N:105 or less					
-	Drain pump thermal fuse °C		145	145	145		145					
FXM~LVE	PC boad fuse	I —			250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A		250V 10
FXMQ~MVE	Fan motor thermal protector °C				OFF: 135±8 (ON: 87±15)	OFF:135±8 ON:87±15)	0FF:135±8 (0N:87±15)	0FF:135±8 (0N:87±15)	OFF:135±8 (ON:87±15)	0FF: 135±8 (0N: 87±15)		OFF: 135± (ON: 87±1
	PC boad fuse									250V 10A		250V 10
FXMQ~MFV1	Fan motor thermal protector °C									OFF:135±8 (ON:35±15)		OFF:135± (ON:85±1
FHQ~PV4A	PC boad fuse								250V 5A	250V 5A		
	Fan motor thermal protector °C								OFF: 130 ±5 ON: 80 ±20	OFF: 130 ±5 ON: 80 ±20		
	PC boad 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	
FXMQ~PVE(D)	PC boad 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	250V 6.3A	-
	Drain pump thermal fuse °C	145	145	145	145	145	145	145	145	145	145	_
	PC boad 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	_
FXMQ~PVET	PC boad 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	250V 6.3A	_
	Drain pump thermal fuse °C	145	145	1 45	145	145	145	145	145	145	145	_
FXMQ~MVET	PC boad fuse			_		—	—		—	—		250V 10
	Drain pump thermal fuse °C											OFF: 135± (ON: 87±1
FXSQ~PVE(4)	PC boad 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	_
FXSQ~PV2S	PC boad fuse (Fan driver)	250V 6.3A	250V 6.3A	250V 6.3A	250V 6.3A	250V 6.3A	250V 6.3A	250V 6.3A	250V 6.3A	250V 6.3A	250V 6.3A	
FXMQ~MBVE	PC boad fuse	 	_							<u> </u>		250V 3.1
	PC boad fuse (Fan driver)									<u> </u>		250V 20
FXBQ~PVE(4)	PC boad fuse	I —		I —	250V 10A	250V 10A	250V 10A					_
FXBPQ63PVE (4)	Fan motor thermal protector °C	: -		<u> </u>	0FF:125±5 (ON:79±15)	OFF: 125±5 (ON: 79±15)	(DFF: 135±5 (ON: 86±15)					_
FXPQ~AVN	PC boad fuse		250V 5A	—								_
		. —	OFF:145±5							1		

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Options

5 - 1 **Options**

		_	_	_	_
FX	ΝЛ	\boldsymbol{n}		١л	п
	W		-1	vi	к

No.	Item		Туре	FXC~L FXCQ~MVE FXCQ~MVET	FXK~L FXKQ~MAVE	FXMQ~MVET		FXH~L FXHQ~MAVE FXHQ~MVET	FXMQ~MFV1	FXMQ~MBVE	FXBQ~PVE FXBPQ~PVE
		Wireless	H/P	BRC7C62	BRC4C61		BRC4C62	BRC7EA63W	-	BRC4C65	BRC4C62
1	Remote controller	AAII GIGSS	C/O	BRC7C67	BRC4C63	63 BRC4C64		BRC7EA66	-	BRC4C66	BRC4C64
Ľ	Remote controller	Wired		BRC1C6	2 • BRC1D61 • B	RC1E61	C1E61 BRC1C62 • BRC1D61 • BRC1E61 • BRC1H81W7 • BRC1H81S7		1D61 • BRC1E61	BRC1E41	BRC1C62
2	Simplified remote controller				-		BRC2C51	-	-	BRC2E52C	BRC2C51
3	Remote controller for hotel use				-		BRC3A61	-	-	BRC3E52C	BRC3A61
4	Adapter for wiring			★KRP1B61			KRP1B61	KRP1BA54	KPR1B61	KRP1C64	KRP1B61
5-1	Wiring adapter for electrical ap	pendices (1)		★KRP2A61			KRP2A61	★KRP2A62		KRP2A61	
5-1	Wiring adapter for electrical ap	pendices (2))	★KRP4AA51			KRP4AA51	★KRP4AA52		KRP4AA51	
6	Remote sensor						KRCS01-1B		-	KRCS01-4B	KRCS01-1B
7	Installation box for adapter PCI	В		Note 2, 3 KRP1B96	-	Note 5 - KRP4A91 -		Note 3 KRP1CA93	-	-	-
8	Central remote contoller						DSC302CA61				
8-1	Electrical box with earth termin	al (3 blocks)					KJB311AA				
9	Unified on/off controller						DCS301BA61				
9-1	Electrical box with earth termin	al (2 blocks)					KJB212AA				
9-3	Noise filter (for electromagnetic	interface us	se only)				KEK26-1A				
10	Schedule timer						DST301BA61				
11	Intelligent touch controller						DCS601C51				
12	Intelligen touch manager						DCM601A51				
13	External control adapter for out (Must be installed on indoor un			★DTA104A61		I	DTA104A61	★DTA104A62		DTA104A61	
14	Simplified remote controller (with operation mode selector I	outton)	Note 7	-	BRC2E52C7			-	-	-	-
15	Simplified remote controller (without operation mode select	or button)	Note 7	-	BRC3E52C7	-			-	-	-
16	Digital input adapter		Note 8	-	BRP7A51	-	-	-	-	-	-

NOTES

Installation box (No. 7) is necessary for each adapter marked ★.
 Up to 2 adapters can be fixed for each installation box.
 Only one installation box can be installed for each indoor unit.
 Up to 2 installation boxes can be installed for each indoor unit.
 Installation box (No. 7) is necessary for second adapter.
 Installation box (No. 7) is necessary for each adapter.
 Included languages are:
 Language pack 1: English, German, French, Dutch, Spanish, Italian an Portuguese.
 With PC cable EKPCCAB3 in combination with the updater PC software, you can additainly 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.
 Only possible in combination with simplified remote controller BRC2/3E52C7.

3D034600L

FXMQ-MB

		DE:				< [OUCT TY	PE>						
ITEM	MO	DEL	FXMQ40MVE	FXMQ50MVE	FXMQ63MVE	FXMQ80MVE	FXMQ100MVE	FXMQ125MVE	FXMQ200MVE FXMQ200MVET FXMQ200MAVE	FXMQ250MVE FXMQ250MVET FXMQ250MAVE	FXMQ200MBVE	FXMQ250MBVE		
		TYPE	KDU-30L12	5VE					KDU30L250VE KDU30M250VE			Έ		
DRAIN PUMP	KIT	Z No.	Z96A064						Z980500 Z150304					
		AS No.												
		TYPE	K A F P 3 7 2 A 8	0			K A F P 3 7 2 A 1	6 0	KAF372M280)				
шси	65%	Z No.												
HIGH EFFICIENCY		AS No.	A S 3 6 0 3 1 8 4						AS3600873					
FILTER		TYPE	K A F P 3 7 3 A 8	0			KAFP373A1	6 0	KAF373M280)				
NOTE (2)	90%	Z No.												
		AS No.	AS3603184						AS3600873					
	,	TYPE	KDDFP37A8	0			KDDFP37A1	6 0	KDJ3705L28	30				
FILTER CHAM	BER	Z No.	—				'		—					
	AS No. AS3603183							AS3600874						
LONG LIFE		TYPE	KAFP371A8	P371A80 KAFP371A160					KAF371N280					
REPLACEMENT	PLACEMENT Z No. —													
FILTER				4S3603185					AS3600872					

NOTE(1)SEE THE LATEST FOR THE MODIFICATION MARKS. (2)NOT AVAILABLE IN EU.

3D040334E





6 Capacity tables

6 - 1 Cooling Capacity Tables

FXMQ-MB

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

			Indoor air temperature														
Unit Size	AL	3.4	Outdoor 14.0W		OWB	16.0)WB	18.0)WB	19.0)WB	20.0)WB	22.0)WB	24.0)WB
Unit Size	Nominal capacity	all tellip.	20.0	0DB	23.0	DDB	26.0	DDB	27.0	DDB	28.0	ODB	30.0	ODB	32.0	DDB	
		°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	
200	22.4	35.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.6	17.0	24.2	16.1	24.6	15.4	
250	28.0	35.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.5	21.1	30.2	20.2	30.8	19.4	



6 Capacity tables

6 - 2 Heating Capacity Tables

FX	М	Q-	M	В
----	---	----	---	---

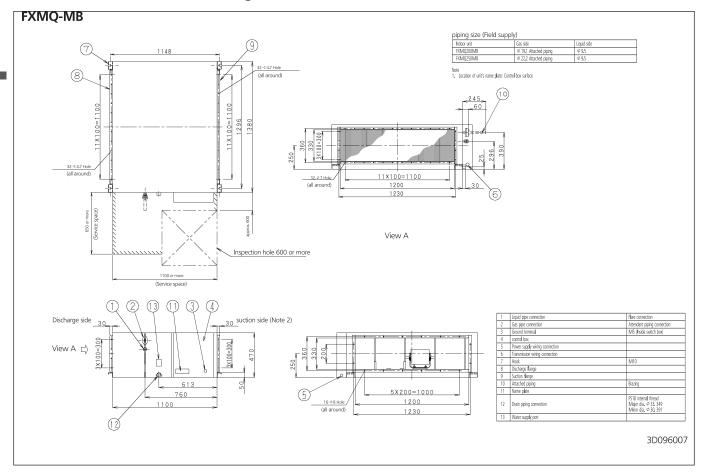
		Outdoor			Indoor air temperature °CDB							
Unit Size Nominal capacity	air tem		16.0	18.0	20.0	21.0	22.0	24.0				
	' '	°CDB	°CWB	kW	kW	kW	kW	kW	kW			
200	25.0	7.0	6.0	26.2	26.2	25.0	24.2	23.4	21.8			
250	31.5	7.0	6.0	33.1	33.0	31.5	30.5	29.5	27.5			





7 Dimensional drawings

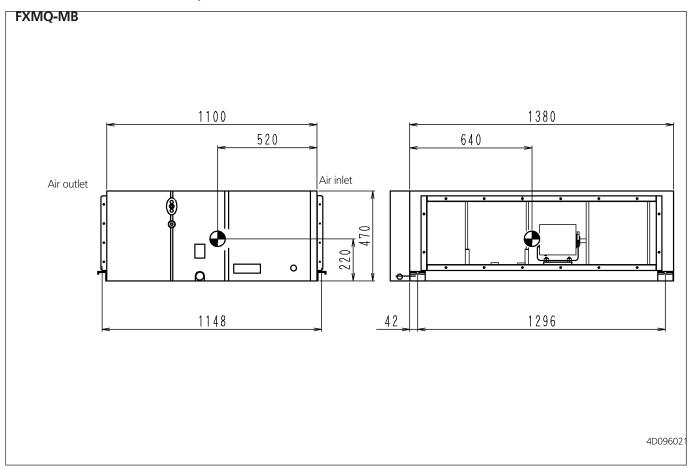
7 - 1 Dimensional Drawings





8 Centre of gravity

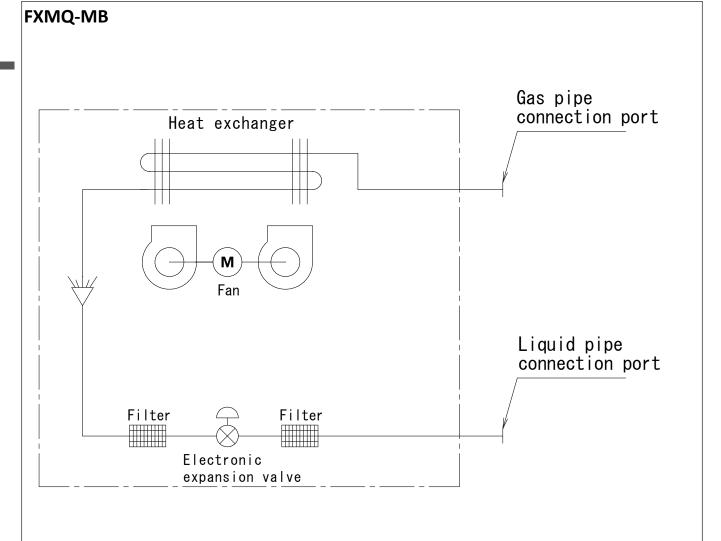
8 - 1 Centre of Gravity





9 Piping diagrams

9 - 1 Piping Diagrams



APPLICABLE MODEL

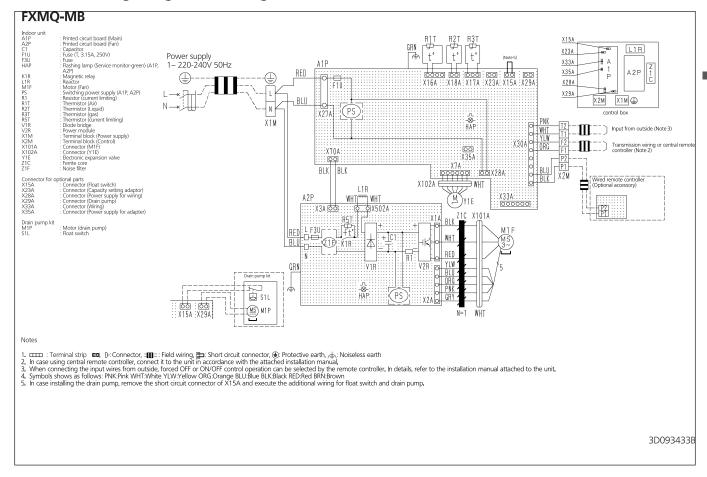
FXC, FXM, FXL, FXN
FXH, FXK, FXS, FJSP
CBXLS, FXSP, FXCP
FZSP, FXNP, FJNP
FHQ, FXA, FXMQ, FBQ
FXAQ, FXSP~BA, FAQ, FCQ
FZSP~BA(N), FSSP~BA,
FQSP~BAN, FXUQ, FZCP, FZAP
FXSQ~PV2S, FXSQ~T, FXSP~CA(N)
FZSP~CA(N), FQSP~CAN
FSSP~CA, FXSFP~AA, FSSFP~AA

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10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

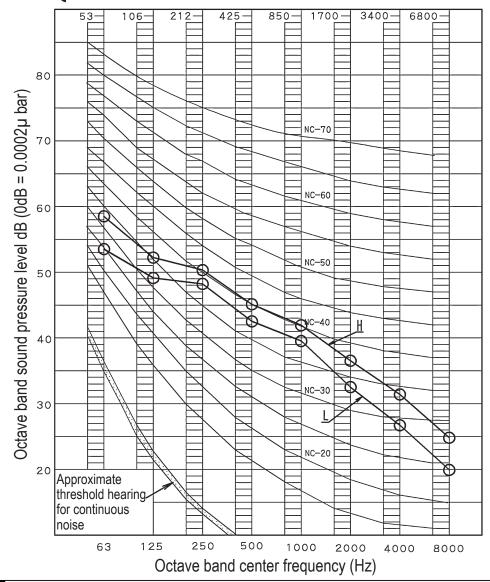




11 Sound data

11 - 1 Sound Pressure Spectrum

FXMQ200MB



NOTES

1. Over All (dB):

Cools	Air flow rate		
Scale	Н	L	
А	48	45	
С	60	56	

(B,G,N is already rectified)

- 2. Measuring place
 - Anechoic chamber
- 3. Operating conditions

Power source: 220-240V 50Hz Standard conditions (JIS)

E.S.P.: 160Pa

- 4. Location of microphone. JIS B8616
- 5. Operation noise differs with operation and ambient conditions.

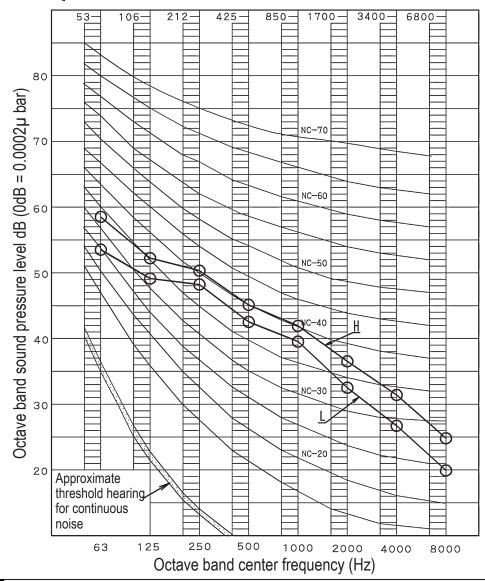
4D101835



11 Sound data

11 - 1 Sound Pressure Spectrum

FXMQ250MB



NOTES

1. Over All (dB):

Scale	Air flow rate		
Scale	Н	L	
А	48	45	
С	60	56	

(B,G,N is already rectified)

- 2. Measuring place
 - Anechoic chamber
- 3. Operating conditions

Power source: 220-240V 50Hz Standard conditions (JIS)

E.S.P.: 170Pa

- 4. Location of microphone. JIS B8616
- 5. Operation noise differs with operation and ambient conditions.

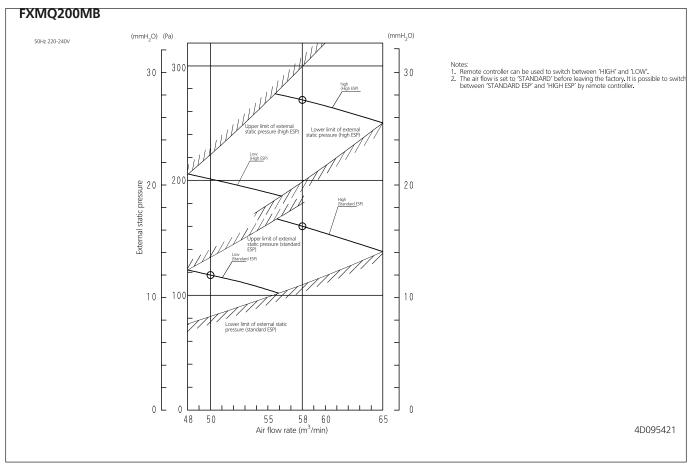
4D101836

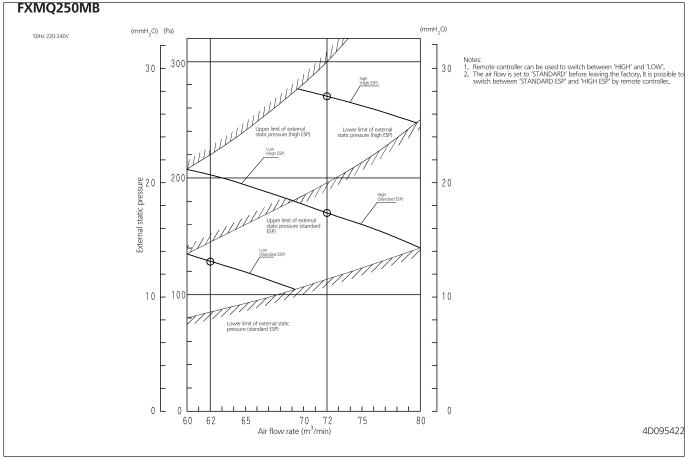




Fan characteristics

Fan Characteristics 12 - 1





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				H L L L L L L L L L L L L L L L L L L L	((