

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



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FXMQ-MA

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1 Features

1 - 1 FXMQ-MA

- › High external static pressure up to 270Pa facilitates extensive duct and grille network
- › Discretely concealed in the ceiling; only the suction and discharge grilles are visible
- › Large capacity unit: up to 31.5 kW heating capacity



Inverter



Home leave operation



Fan only



Auto cooling-heating changeover (heat pump)



Fan speed steps (2 steps)



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Drain pump kit (optional)

2 Specifications

2 - 1 FXMQ-MA

Technical specifications					FXMQ200MA		FXMQ250MA		
Cooling capacity	Total capacity	At high fan speed		kW	22.4 (1)		28.0 (1)		
Heating capacity	Total capacity	At high fan speed		kW	25.0 (2)		31.5 (2)		
Power input - 50Hz	Cooling	At high fan speed		kW	1.294		1.465		
	Heating	At high fan speed		kW	1.294		1.465		
Power input - 60Hz	Cooling	At high fan speed		kW	1.400		1.684		
	Heating	At high fan speed		kW	1.400		1.684		
Dimensions	Unit	Height	mm		470				
		Width	mm		1,380				
		Depth	mm		1,100				
Weight	Unit			kg	137				
Casing	Material				Galvanised steel plate				
Heat exchanger	Rows	Quantity			3				
	Fin pitch				mm				
	Face area				m ²				
	Stages	Quantity			26				
Fan	Type				Sirocco fan				
	Quantity				2				
	Air flow rate - 50Hz	Cooling	At high fan speed	m ³ /min	58		72		
			At low fan speed	m ³ /min	50		62		
	Air flow rate - 60Hz	Cooling	High	m ³ /min	58		72		
			Low	m ³ /min	50		62		
	External static pressure - 50Hz	Factory set	High	Pa	132		191		
			High	Pa	221 (3)		270 (3)		
	External static pressure - 60Hz	Factory set	High	Pa	132		147		
			High	Pa	270				
Fan motor	Output	High		W	380				
	Drive				Direct drive				
Sound pressure level	Cooling	At high fan speed		dB(A)	48				
		At low fan speed		dB(A)	45				
Fan motor	Quantity				2				
	Model				D13/4G2DA1				
Refrigerant	Type				R-410A				
	Control				Electronic expansion valve				
Piping connections	Liquid	Type			Flare connection				
		OD	mm		9.52				
	Gas	Type				Braze connection			
Piping connections	Gas	OD		mm	19.1		22.2		
	Drain				PS1B				
	Heat insulation				Glass fiber				
	Sound absorbing insulation				Glass fiber				
Safety devices	Item	01				Fuse			
		02				Fan motor thermal protection			
Control systems	Infrared remote control				BRC4C62 / BRC4C64				
	Wired remote control				BRC1D61 / BRC1E61 / BRC1C62 / BRC1H81W7 / BRC1H81S7				
	Simplified wired remote control for hotel applications				BRC3A61				
Temperature control					Microprocessor thermostat for cooling and heating				

Standard accessories: Installation and operation manual;Quantity:;

Standard accessories: Connection pipes;Quantity:;

Standard accessories: Sealing pads;Quantity:;

Standard accessories: Clamps;Quantity:;

Standard accessories: Screws;Quantity:;

Electrical specifications				FXMQ200MA	FXMQ250MA
Power supply	Name			VE	
	Phase			1~	
	Frequency	Hz		50/60	
	Voltage	V		220-240/220	
Current - 50Hz	Minimum circuit amps (MCA)	A		8.1	9.0
	Maximum fuse amps (MFA)	A		15	
	Full load amps (FLA) Total	A		6.5	7.2
Current - 60Hz	Minimum circuit amps (MCA)	A		9.0	10.1
	Maximum fuse amps (MFA)	A		15.0	
	Full load amps (FLA) Total	A		7.2	8.1

2 Specifications

2 - 1 FXMQ-MA

Electrical specifications			FXMQ200MA	FXMQ250MA
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) |
(3)The external static pressure is changeable: change the connectors inside the electrical box, this pressure means: High static pressure - Standard |
Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. |
Air filter is not standard accessory, but please mount it in the duct system of the suction side. Select its dust collection efficiency (gravity method) 50% and more. |
Sound pressure levels are measured at 220V. |
Reference acoustic pressure 0 dB = 20 Pa. |
Sound values are measured in an anechoic room. |
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 |
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

3 Electrical data

3 - 1 Electrical Data

FXMQ-MA

Units					Power supply		IFM		Input (W)	
Model	Type	Hz	Volts	Voltage range	MCA	MFA	kW	FLA	Cooling	Heating
FXMQ200MA	VE	50	220-240V	Max. 264V	8.1	15	0.380 x 2	6.5	1294	1294
FXMQ250MA				Min. 198V	9.0	15	0.380 x 2	7.2	1465	1465
FXMQ200MA	VE	60	220	Max. 242V	9.0	15	0.380 x 2	7.2	1490	1490
FXMQ250MA				Min. 198V	10.1	15	0.380 x 2	8.1	1684	1684

SYMBOLS

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

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 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.

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4 Safety device settings

4 - 1 Safety Device Settings

FXMQ-MA

Safety devices	20	25	32	40	50	63	80	100	125	140	200	250
FXS~LVE FXSQ~MVE	PC board fuse Fan motor thermal protector Drain pump thermal fuse	250V 10A OFF: 135±5 (ON: 36±5) 169	250V 10A OFF: 135±5 (ON: 36±5) 169	250V 10A OFF: 135±5 (ON: 36±5) 169	250V 10A OFF: 135±5 (ON: 36±5) 169	250V 10A OFF: 135±5 (ON: 36±5) 169	250V 10A OFF: 135±5 (ON: 36±5) 169	250V 10A OFF: 135±5 (ON: 36±5) 169	250V 10A OFF: 135±5 (ON: 36±5) 169	250V 10A OFF: 135±5 (ON: 36±5) 169	—	—
FXH~LVE FXHQ~MVE FXHQ~MVE1	PC board fuse Fan motor thermal protector	— —	— —	250V 5A OFF: 130±5 (ON: 30±5)	— —	250V 5A OFF: 130±5 (ON: 30±5)	— —	250V 5A OFF: 130±5 (ON: 30±5)	— —	— —	— —	— —
FXC~LVE FXCQ~MVE	PC board fuse Fan motor thermal protector Drain pump thermal fuse	250V 5A OFF: 135±5 (ON: 36±5) 169	250V 5A OFF: 135±5 (ON: 36±5) 169	250V 5A OFF: 135±5 (ON: 36±5) 169	250V 5A OFF: 135±5 (ON: 36±5) 169	250V 5A OFF: 135±5 (ON: 36±5) 169	250V 5A OFF: 135±5 (ON: 36±5) 169	250V 5A OFF: 135±5 (ON: 36±5) 169	250V 5A OFF: 135±5 (ON: 36±5) 169	250V 5A OFF: 135±5 (ON: 36±5) 169	—	—
FXK~LVE FXKQ~MVE	PC board fuse Fan motor thermal fuse Fan motor thermal protector Drain pump thermal fuse	— — — —	250V 5A 146 ±3 — 145	250V 5A 146 ±3 — 145	250V 5A — OFF: 120±5 (ON: 15 or less)	— — — 145	250V 5A — — — 145	— — — —	— — — —	— — — —	— — — —	— — — —
FXM~LVE FXMQ~MVE	PC board fuse Fan motor thermal protector	— —	— —	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)
FXMQ~MFV1	PC board fuse Fan motor thermal protector	— —	— —	— —	— —	— —	— —	— —	250V 10A OFF: 135±5 (ON: 37±5)	— —	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)
FXQ~PV4A	PC board fuse Fan motor thermal protector	— —	— —	— —	— —	— —	— —	250V 5A OFF: 130±5 (ON: 30±5)	250V 5A OFF: 130±5 (ON: 30±5)	— —	— —	— —
FXMQ~PVE (D)	PC board fuse PC board fuse (Fan driver) Drain pump thermal fuse	250V 3, 15A 250V 5A 145	250V 3, 15A 250V 5A 145	250V 3, 15A 250V 5A 145	250V 3, 15A 250V 5A 145	250V 3, 15A 250V 6, 3A 145	250V 3, 15A 250V 6, 3A 145	250V 3, 15A 250V 6, 3A 145	250V 3, 15A 250V 6, 3A 145	250V 3, 15A 250V 6, 3A 145	— — —	— — —
FXMQ~PVET	PC board fuse PC board fuse (Fan driver) Drain pump thermal fuse	250V 3, 15A 250V 5A 145	250V 3, 15A 250V 5A 145	250V 3, 15A 250V 5A 145	250V 3, 15A 250V 5A 145	250V 3, 15A 250V 6, 3A 145	250V 3, 15A 250V 6, 3A 145	250V 3, 15A 250V 6, 3A 145	250V 3, 15A 250V 6, 3A 145	250V 3, 15A 250V 6, 3A 145	— — —	— — —
FXMQ~MVE1	PC board fuse Drain pump thermal fuse	— —	— —	— —	— —	— —	— —	— —	— —	— —	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)
FXSQ~PVE (4) FXSQ~PV2S	PC board fuse PC board fuse (Fan driver)	250V 3, 15A 250V 6, 3A	250V 3, 15A 250V 6, 3A	250V 3, 15A 250V 6, 3A	250V 3, 15A 250V 6, 3A	250V 3, 15A 250V 6, 3A	250V 3, 15A 250V 6, 3A	250V 3, 15A 250V 6, 3A	250V 3, 15A 250V 6, 3A	250V 3, 15A 250V 6, 3A	— —	— —
FXMQ~MBVE	PC board fuse PC board fuse (Fan driver)	— —	— —	— —	— —	— —	— —	— —	— —	— —	250V 3, 15A 250V 20A	250V 3, 15A 250V 20A
FXBQ~PVE (4) FXBPG3PVE (4)	PC board fuse Fan motor thermal protector	— —	— —	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)	250V 10A OFF: 135±5 (ON: 37±5)	— —	— —	— —	— —	— —	— —
FXPQ~AVN	PC board fuse Fan motor thermal protector	— —	250V 5A OFF: 145±5 (ON: 34±5)	— —	— —	— —	— —	— —	— —	— —	— —	— —
FXPQ~AAVN	PC board fuse	—	250V 3, 15A	—	—	—	—	—	—	—	—	—

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Options

5 - 1 Options

FXMQ-MA

ITEM \ MODEL		< DUCT TYPE >									
		FXMQ40MVE	FXMQ50MVE	FXMQ63MVE	FXMQ80MVE	FXMQ100MVE	FXMQ125MVE	FXMQ200MVE FXMQ200MVET FXMQ200MAVE	FXMQ250MVE FXMQ250MVET FXMQ250MAVE	FXMQ200MBVE	FXMQ250MBVE
DRAIN PUMP KIT		TYPE	KDU-30L125VE					KDU30L250VE		KDU30M250VE	
		Z No.	Z96A064					Z980500		Z150304	
		AS No.	_____					_____			
HIGH EFFICIENCY FILTER NOTE (2)	65%	TYPE	KAFP372A80			KAFP372A160		KAF372M280			
		Z No.	_____					_____			
		AS No.	AS3603184					AS3600873			
	90%	TYPE	KAFP373A80			KAFP373A160		KAF373M280			
		Z No.	_____					_____			
		AS No.	AS3603184					AS3600873			
FILTER CHAMBER		TYPE	KDDFP37A80			KDDFP37A160		KDJ3705L280			
		Z No.	_____					_____			
		AS No.	AS3603183					AS3600874			
LONG LIFE REPLACEMENT FILTER		TYPE	KAFP371A80			KAFP371A160		KAF371N280			
		Z No.	_____					_____			
		AS No.	AS3603185					AS3600872			

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

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FXMQ-MA

No.	Item	Type		FXC-L FXCQ-MVE FXCQ-MVET	FXK-L FXKQ-MAVE	FXS-L FXSQ-MAVE	FXM-L FXMQ-MAVE FXMQ-MVET	FXH-L FXHQ-MAVE FXHQ-MVET	FXMQ-MFV1	FXMQ-MBVE	FXBQ-PVE FXBPQ-PVE	
		Wireless	H/P C/O	BRC7C62 BRC7C67	BRC4C61 BRC4C63	BRC4C62 BRC4C64		BRC7EA63W BRC7EA66	- -	BRC4C65 BRC4C66	BRC4C62 BRC4C64	
1	Remote controller	Wired		BRC1C62 • BRC1D61 • BRC1E61			BRC1C62 • BRC1D61 • BRC1E61 • BRC1H81W7 • BRC1H81S7	BRC1C62 • BRC1D61 • 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 appendices (1)			★KRP2A61		KRP2A61		★KRP2A62		KRP2A61		
5-1	Wiring adapter for electrical appendices (2)			★KRP4AA51		KRP4AA51		★KRP4AA52		KRP4AA51		
6	Remote sensor			KRCS01-1B					-	KRCS01-4B	KRCS01-1B	
7	Installation box for adapter PCB			Note 2, 3 KRP1B96	-	Note 5 KRP4A91	-		Note 3 KRP1CA93	-	-	-
8	Central remote controller			DSC302CA61								
8-1	Electrical box with earth terminal (3 blocks)			KJB311AA								
9	Unified on/off controller			DCS301BA61								
9-1	Electrical box with earth terminal (2 blocks)			KJB212AA								
9-3	Noise filter (for electromagnetic interface use only)			KEK26-1A								
10	Schedule timer			DST301BA61								
11	Intelligent touch controller			DCS601C51								
12	Intelligen touch manager			DCM601A51								
13	External control adapter for outdoor unit (Must be installed on indoor units)			★DTA104A61	DTA104A61				★DTA104A62	DTA104A61		
14	Simplified remote controller (with operation mode selector button)			Note 7	-	BRC2E52C7	-	-	-	-	-	
15	Simplified remote controller (without operation mode selector button)			Note 7	-	BRC3E52C7	-	-	-	-	-	
16	Digital input adapter			Note 8	-	RRP7A51	-	-	-	-	-	

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 and Portuguese.
With PC cable EKPCCAB3 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.
- Only possible in combination with simplified remote controller BRC2/3E52C7.

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6 Capacity tables

6 - 1 Cooling Capacity Tables

FXMQ-MA

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

Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature													
			14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
			20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB	
		°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
200	22.4	10.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	29.4	17.8
		12.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	29.0	17.6
		14.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	28.7	17.4
		16.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	28.3	17.2
		18.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	27.9	16.9
		20.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	27.5	16.7
		21.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.8	17.6	27.4	16.6
		23.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.4	17.3	27.0	16.4
		25.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	26.1	17.1	26.6	16.2
		27.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	25.7	16.8	26.2	16.1
		29.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	25.3	16.6	25.8	15.9
		31.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	24.9	16.4	25.4	15.7
		33.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.8	17.0	24.5	16.3	25.0	15.6
		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
		37.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.2	16.8	23.8	16.0	24.3	15.3
		39.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	22.8	16.6	23.4	15.8	23.9	15.1
250	28.0	10.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	36.8	22.1
		12.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	36.3	21.8
		14.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	35.9	21.6
		16.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	35.4	21.3
		18.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	34.9	21.0
		20.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	34.4	20.7
		21.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.5	22.1	34.2	20.6
		23.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	33.0	21.7	33.7	20.3
		25.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	32.6	21.5	33.2	20.2
		27.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	32.1	21.2	32.8	20.0
		29.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	31.6	20.9	32.3	19.9
		31.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	31.1	20.6	31.8	19.7
		33.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.8	21.2	30.6	20.4	31.3	19.5
		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
		37.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.0	20.9	29.7	20.0	30.4	19.2
		39.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	21.0	28.5	20.6	29.2	19.8	29.9	19.0

6 Capacity tables

6 - 2 Heating Capacity Tables

FXMQ-MA

Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
200	25.0	-19.8	-20.0	14.8	14.7	14.7	14.7	14.6	14.6
		-18.8	-19.0	15.2	15.2	15.1	15.1	15.1	15.0
		-16.7	-17.0	16.1	16.0	16.0	16.0	16.0	15.9
		-14.7	-15.0	17.0	16.9	16.9	16.9	16.8	16.8
		-12.6	-13.0	17.9	17.8	17.8	17.7	17.7	17.7
		-10.5	-11.0	18.7	18.7	18.6	18.6	18.6	18.6
		-9.5	-10.0	19.2	19.1	19.1	19.1	19.0	19.0
		-8.5	-9.1	19.6	19.5	19.5	19.5	19.4	19.4
		-7.0	-7.6	20.2	20.2	20.2	20.1	20.1	20.1
		-5.0	-5.6	21.1	21.1	21.0	21.0	21.0	20.9
		-3.0	-3.7	22.0	21.9	21.9	21.9	21.8	21.8
		0.0	-0.7	23.3	23.2	23.2	23.2	23.2	21.8
		3.0	2.2	24.6	24.5	24.5	24.2	23.4	21.8
		5.0	4.1	25.4	25.4	25.0	24.2	23.4	21.8
		7.0	6.0	26.2	26.2	25.0	24.2	23.4	21.8
		9.0	7.9	27.1	26.6	25.0	24.2	23.4	21.8
		11.0	9.8	27.9	26.6	25.0	24.2	23.4	21.8
		13.0	11.8	28.2	26.6	25.0	24.2	23.4	21.8
		15.0	13.7	28.2	26.6	25.0	24.2	23.4	21.8
250	31.5	-19.8	-20.0	18.6	18.5	18.5	18.5	18.4	18.4
		-18.8	-19.0	19.2	19.1	19.0	19.0	19.0	18.9
		-16.7	-17.0	20.3	20.2	20.2	20.1	20.1	20.0
		-14.7	-15.0	21.4	21.3	21.3	21.2	21.2	21.2
		-12.6	-13.0	22.5	22.4	22.4	22.4	22.3	22.3
		-10.5	-11.0	23.6	23.6	23.5	23.5	23.4	23.4
		-9.5	-10.0	24.2	24.1	24.1	24.0	24.0	23.9
		-8.5	-9.1	24.7	24.6	24.6	24.5	24.5	24.4
		-7.0	-7.6	25.5	25.4	25.4	25.4	25.3	25.3
		-5.0	-5.6	26.6	26.6	26.5	26.5	26.4	26.4
		-3.0	-3.7	27.7	27.6	27.6	27.5	27.5	27.5
		0.0	-0.7	29.3	29.3	29.2	29.2	29.2	27.5
		3.0	2.2	31.0	30.9	30.8	30.5	29.5	27.5
		5.0	4.1	32.0	32.0	31.5	30.5	29.5	27.5
		7.0	6.0	33.1	33.0	31.5	30.5	29.5	27.5
		9.0	7.9	34.1	33.5	31.5	30.5	29.5	27.5
		11.0	9.8	35.2	33.5	31.5	30.5	29.5	27.5
		13.0	11.8	35.5	33.5	31.5	30.5	29.5	27.5
		15.0	13.7	35.5	33.5	31.5	30.5	29.5	27.5

Capacity tables

Capacity Correction Factor

FXMQ-MA

		Capacity correction factor Te = 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
FXMQ200MA	TC	0.679	0.701	0.762	0.788	0.810	0.836	0.859
	SHF	1.136	1.164	1.109	1.085	1.070	1.060	1.051
FXMQ250MA	TC	0.687	0.717	0.781	0.800	0.815	0.841	0.864
	SHF	1.129	1.151	1.099	1.081	1.069	1.053	1.056

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

How to use this table:

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

SHF: SHF for High sensible mode = SHF for normal capacity table X SHF ratio.

In case of SHF is bigger than 1, SHF is "1"

When selecting units for mixed (RA DX indoor units + VRV DX indoor unit),

- Correction C_i corresponds with Te = 9°C TC ratio value for each type of Indoor unit, depending on indoor ambient design temperature X/Y °CDB/°CWB
- Correction C_i corresponds with Te = 9°C TC ratio value for each type of indoor unit, depending on indoor ambient temperature 29/19 °CDB/°CWB

So verwenden Sie diese Tabelle:

Leistung: Gesamtleistung (GL) für hochföhlbaren Leistungsmodus = Gesamtleistung für normale Leistungstabelle x GL-Verhältnis.

SHF: SHF für hochföhlbaren Leistungsmodus = SHF für normale Leistungstabelle x SHF-Verhältnis.

Für den Fall, dass SHF größer als 1 ist, wird SHF als "1" angenommen.

Bei Auswahl gemischter Geräte (RA DX-Innengerät + VRV DX-Innengerät),

- Korrektur C_i entspricht dem GL-Verhältniswert für Te = 9 °C für jeden Innengerätetyp, in Abhängigkeit von der Innen-Entwurfstemperatur X/Y °C TK/°C FK
- Korrektur C_i entspricht dem GL-Verhältniswert für Te = 9 °C für jeden Innengerätetyp, in Abhängigkeit von der Innentemperatur 29/19 °C TK/°C FK

Πως θα χρησιμοποιήσετε αυτό τον πίνακα:

Απόδοση: Συνολική απόδοση για λειτουργία υψηλής ευαισθησίας = Συνολική απόδοση για λόγο X TC πίνακα κανονικής απόδοσης.

SHF: SHF για λειτουργία υψηλής ευαισθησίας = SHF για λόγο X SHF πίνακα κανονικής απόδοσης.

Στην περίπτωση που το SHF είναι μεγαλύτερο από 1, το SHF είναι "1"

Κατά την επιλογή μονάδων για συνδυασμό (εσωτερικές μονάδες RA DX + εσωτερική μονάδα VRV DX),

- Το C_i διόρθωσης αντιστοιχεί σε Te = 9°C TC τιμή λόγου για κάθε τύπο εσωτερικής μονάδας, ανάλογα με την εσωτερική θερμοκρασία σχεδίου περιβάλλοντος X/Y °CDB/°CWB
- Το C_i διόρθωσης αντιστοιχεί σε Te = 9°C TC τιμή λόγου για κάθε τύπο εσωτερικής μονάδας, ανάλογα με την εσωτερική θερμοκρασία περιβάλλοντος 29/19 °CDB/°CWB

Cómo utilizar esta tabla:

Capacidad: capacidad total para el modo sensible alto = capacidad total para relación TC de tabla X de capacidad normal.

SHF: SHF para modo sensible alto = SHF para relación SHF de tabla X de capacidad normal.

En caso de que SHF sea superior a 1, SHF es "1"

Si se seleccionan unidades combinadas (Unidades interiores DX RA + unidades interiores DX VRV),

- La corrección C_i corresponde a Te = 9°C valor de relación TC para cada tipo de unidad interior, en función de la temperatura de diseño ambiente interior X/Y °CBS/°CBH
- La corrección C_i corresponde a Te = 9°C valor de relación TC para cada tipo de unidad interior, en función de la temperatura ambiente interior 29/19 °CBS/°CBH

Comment utiliser ce tableau :

Puissance :Puissance totale pour le mode haute sensibilité = Puissance totale indiquée dans le tableau de puissance normale X rapport PT.

FCS : FCS pour le mode haute sensibilité =

FCS indiqué dans le tableau de puissance normale X rapport FCS.

Si le FCS est supérieur à 1, le FCS correspond à « 1 »

Lors de la sélection d'unités pour une installation mixte (unités intérieures DX RA + unité intérieure DX VRV),

- La correction C_i correspond à Te = 9 °C / valeur de rapport PT pour chaque type d'unité intérieure, pour une température ambiante intérieure de calcul de X/Y °CBS/°CBH
- La correction C_i correspond à Te = 9 °C / valeur de rapport PT pour chaque type d'unité intérieure, pour une température ambiante intérieure de 29/19 °CBS/°CBH

Come utilizzare questa tabella

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

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

Qualora il valore SHF sia maggiore di 1, SHF è "1"

Quando si selezionano unità combinate (unità interna ad espansione diretta RA+ unità interna ad espansione diretta VRV),

- La correzione C_i corrisponde a Te = 9°C valore rapporto TC per ogni tipo di unità interna, in base alla temperatura interna di progetto X/Y °CBS/°CBU
- La correzione C_i corrisponde a Te = 9°C valore rapporto TC per ogni tipo di unità interna, in base alla temperatura interna di progetto 29/19 °CBS/°CBU

Hoe deze tabel gebruiken:

Vermogen: totaal vermogen voor High Sensible-modus = totaal vermogen voor tabel normaal vermogen x ratio TV.

SHF: SHF voor High Sensible-modus = SHF voor tabel normaal vermogen x ratio SHF.

Indien SHF groter is dan 1, is SHF "1"

Bij het selecteren van units voor gemengd gebruik (RA DX-binnenunits + VRV DX-binnenunits),

- Correctie C_i komt overeen met ratiowaarde Te = 9°C TC voor elk type binnenunit, afhankelijk van de ontwerptemperatuur van de binnenunit X/Y °CDB/°CNB
- Correctie C_i komt overeen met ratiowaarde Te = 9°C TC voor elk type binnenunit, afhankelijk van de omgevingstemperatuur van de binnenunit 29/19 °CDB/°CNB

Как пользоваться этой таблицей:

Производительность: Суммарная мощность для режима высокой производительности по сухому теплу = Суммарная мощность по таблице обычной мощности X коэффициент TC.

SHF: SHF для режима высокой производительности по сухому теплу =

SHF по таблице обычной мощности X коэффициент SHF.

Если SHF больше 1, принять SHF равным 1

При выборе блоков для смешанных установок (внутренние блоки RA DX + внутренние блоки VRV DX):

- Корректировка C_i соответствует значению коэффициента TC Te = 9°C для каждого типа внутренних блоков, в зависимости от расчетной температуры в помещении X/Y °C сух.т./°C вл.т.
- Корректировка C_i соответствует значению коэффициента TC Te = 9°C для каждого типа внутренних блоков, в зависимости от температуры в помещении 29/19 °C сух.т./°C вл.т.

Bu tablo nasıl kullanılır:

Kapasite: Yüksek hassasiyet modu toplam kapasitesi = Normal kapasite tablosu için toplam kapasite X TC oranı.

SHF: Yüksek hassasiyet modu için SHF = Normal kapasite tablosu için SHF X SHF oranı.

SHF, 1'den büyük ise SHF "1"dir

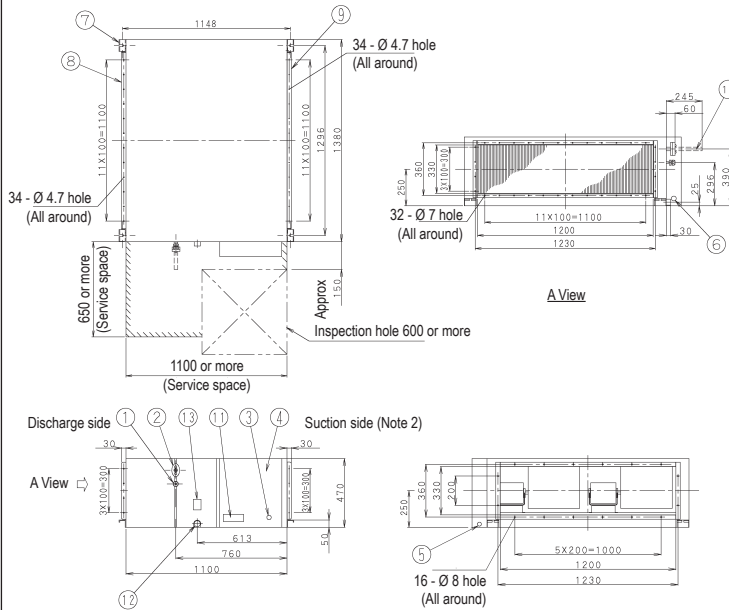
Karışık kombinasyonlar (RA DX iç üniteler + VRV DX iç üniteler) için ünite seçimi yapılırken,

- C_i düzeltme faktörü, X/Y °C KT/°C YT iç ortam tasarım basıncına bağlı olarak her bir iç ünite tipi için Te = 9°C TC oranına karşılık gelir
- C_i düzeltme faktörü, 29/19 °C KT/°C YT iç ortam tasarım basıncına bağlı olarak her bir iç ünite tipi için Te = 9°C TC oranına karşılık gelir

7 Dimensional drawings

7 - 1 Dimensional Drawings

FXMQ-MA



Piping size (field supply)

Indoor unit	Gas side	Liquid side
FXMQ200MA	Ø 19.1 attached piping	Ø 9.5
FXMQ250MA	Ø 22.2 attached piping	Ø 9.5

No.	Name	Description
1	Liquid pipe connection	Flare connection
2	Gas pipe connection	Attendant piping connection
3	Ground terminal	M5 (Inside switch box)
4	Switch box	
5	Power supply wiring connection	
6	Transmission wiring connection	
7	Hook	M10
8	Discharge companion flange	
9	Suction flange	
10	Attached piping	Brazing
11	Name plate	
12	Drain piping connection	PS1B Internal thread Major dia. Ø 33.349 Minor dia. Ø 30.391
13	Water supply port	

NOTES

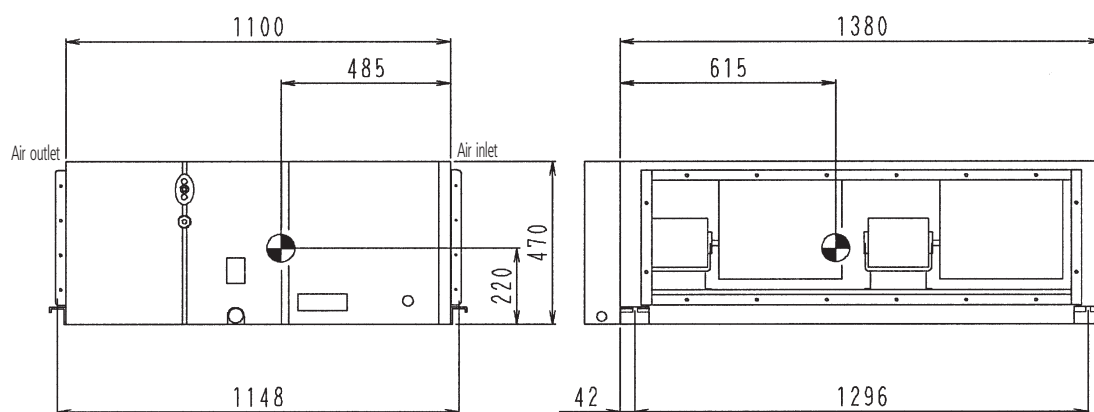
1. Location of unit's Name Plates: Switch box surface.
2. Mount the air filter at the suction side. Select its colorimethod (gravity method) 50% or more.

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8 Centre of gravity

8 - 1 Centre of Gravity

FXMQ200-250MA

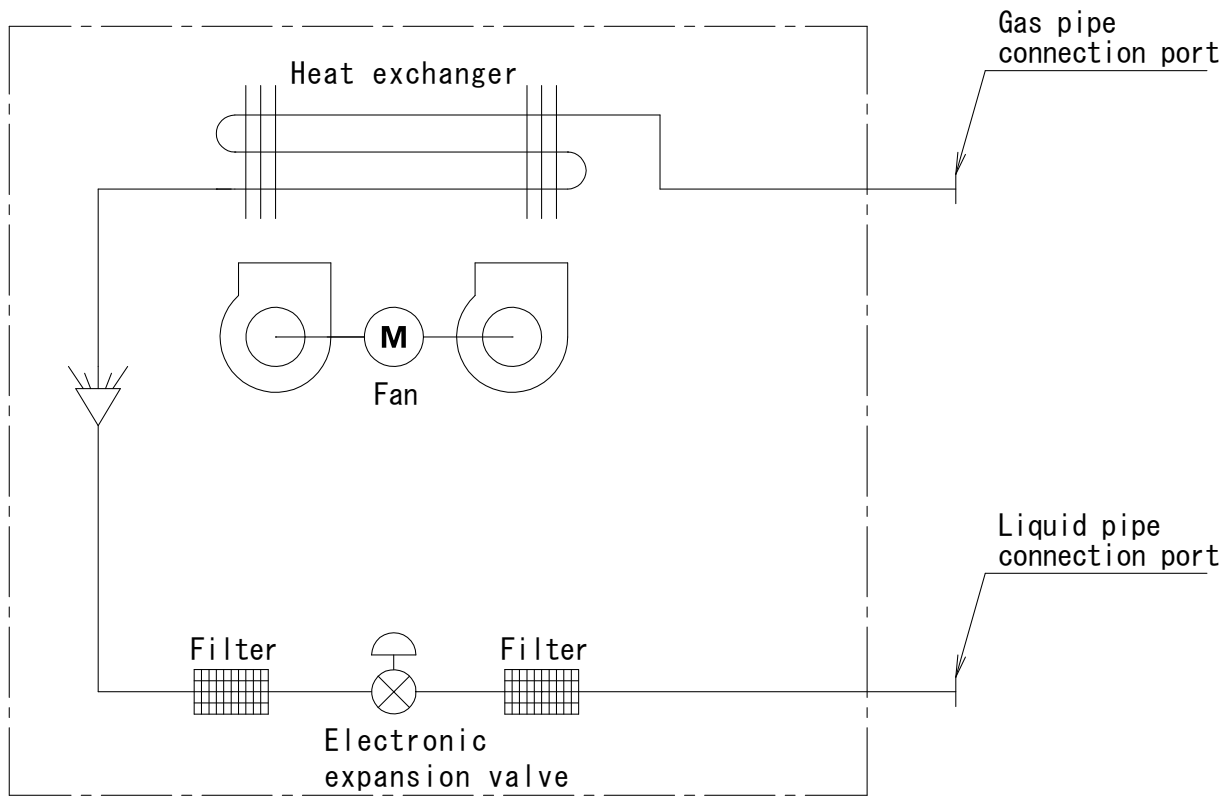


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9 Piping diagrams

9 - 1 Piping Diagrams

FXMQ200-250MA



APPLICABLE MODEL

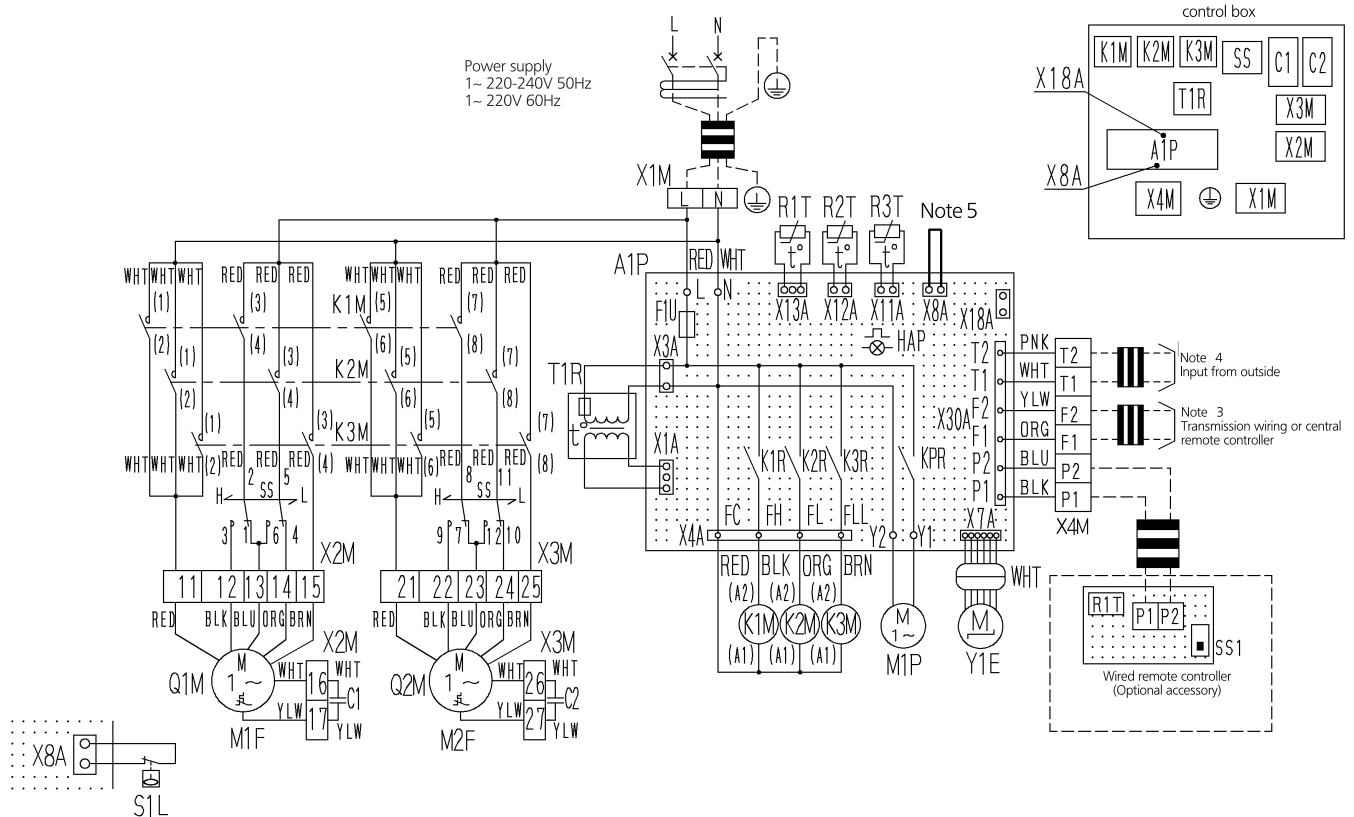
FXC, FXM, FXL, FXN
 FXH, FXK, FXS, FJSP
 CBXLS, FXSP, FXCP
 FZSP, FXNP, FJNP
 FHQ, FXA, FXMQ, FBQ
 FXAQ, FXSP~BA, FAQ, FCQ
 FZSP~BA (N), FSSP~BA,
 FQSP~BAN, FXUQ, FZCP, FZAP
 FXSQ~PV2S, FXSQ~T, FXSP~CA (N)
 FZSP~CA (N), FQSP~CAN
 FSSP~CA, FXSFP~AA, FSSFP~AA

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10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXMQ-MA



Indoor unit
A1P : Printed circuit board
C1•C2 : Capacitor (M1F•2F)
F1U : Fuse (F, 5A, 250V)
HAP : Light emitting diode (service monitor green)
K1M : Magnetic contactor (M1F•2F)
K2M : Magnetic contactor (M1F•2F)
K3M : Magnetic contactor (M1F•2F)
K1R-K3R : Magnetic relay (M1F•2F)
KPR : Magnetic relay (M1P)
M1F•M2F : Motor (Indoor fan)
Q1M•Q2M : Thermo switch (M1F•2F Embedded)
R1T : Thermistor (Air)
R2T•R3T : Thermistor (Coil)
SS : Selector switch (Static pressure)
T1R : Transformer (220-240V/220V)
X1M : Terminal block (power)
X2M-X3M : Terminal block
X4M : Terminal block (Control)
Y1E : Electronic expansion valve

Optional parts
M1P : Motor (drain pump)

Wired remote controller
R1T : Thermistor (Air)
SS1 : Selector switch (main/sub)

Connector for optional parts
X8A : Connector (Float switch)
X18A : Connector (Wiring adapter for electrical appendices)

Notes

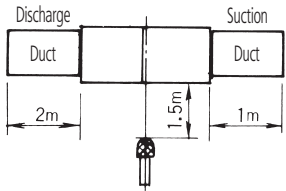
- 1 : Terminal block, 2 : Connector, 3 : Short circuit connector, 4 : Terminal
- 5 : Field wiring
- 6 : In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
- 7 : When connecting the input wires from outside, forced OFF or ON/OFF control operation can be selected by the remote controller. In details, refer to the installation manual attached to the unit.
- 8 : In case installing the drain pump, remove the short circuit connector of X8A and execute the additional wiring for float switch and drain pump.
- 9 : Symbols shows as follows: PNK:Pink WHT:White YLW:Yellow ORG:Orange BLU:Blue BLK:Black RED:Red BRN:Brown
- 10 : Use copper conductors only.
- 11 : In case high E, S, P operation, change the switch (SS) for *H*

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11 Sound data

11 - 1 Sound Level Data

FXMQ-MA

Model	Sound pressure level - 220V			Sound power level
	H	L	Measuring location	
FXMQ200MA	48	45		*
FXMQ250MA	48	45		*

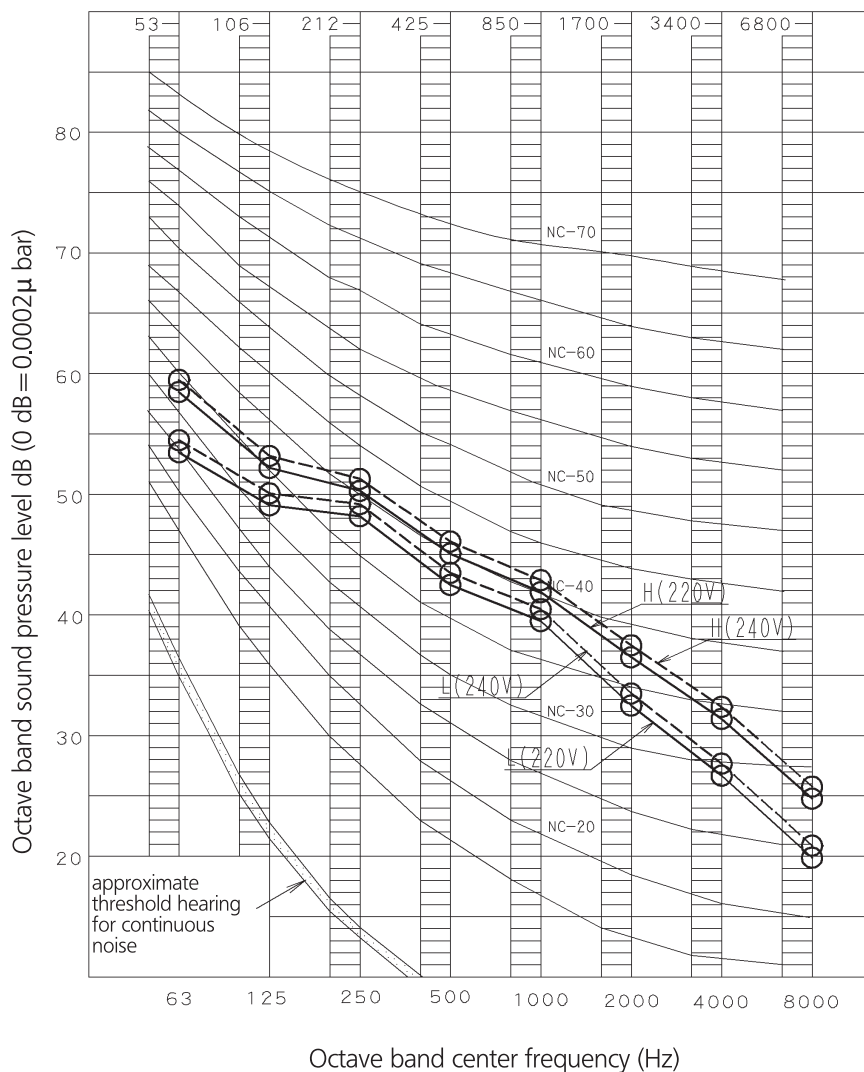
NOTES

- 1 Reference acoustic pressure 0 dB = 20 Pa.
- 2 Measuring place: anechoic chamber
- 3 Operation noise differs with operation and ambient conditions.
*Data were not available at the time of publication

11 Sound data

11 - 2 Sound Pressure Spectrum

FXMQ200MA



NOTES

1 Overall (dB)

Scale	220V		240V	
	A	L	H	L
A	48	45	49	46
C	60	56	61	57

(B,G,N is already rectified)

- Measuring place: Measure in anechoic room
- Operation noise differs with operation and ambient conditions.
- Operating conditions:
Power source 220-240V/220V 50/60Hz
- standard condition (JIS)
○—○ 220V
○---○ 240V
ESP: 132/132Pa (220V 50/60Hz)
- Location of microphone: JIS B8616

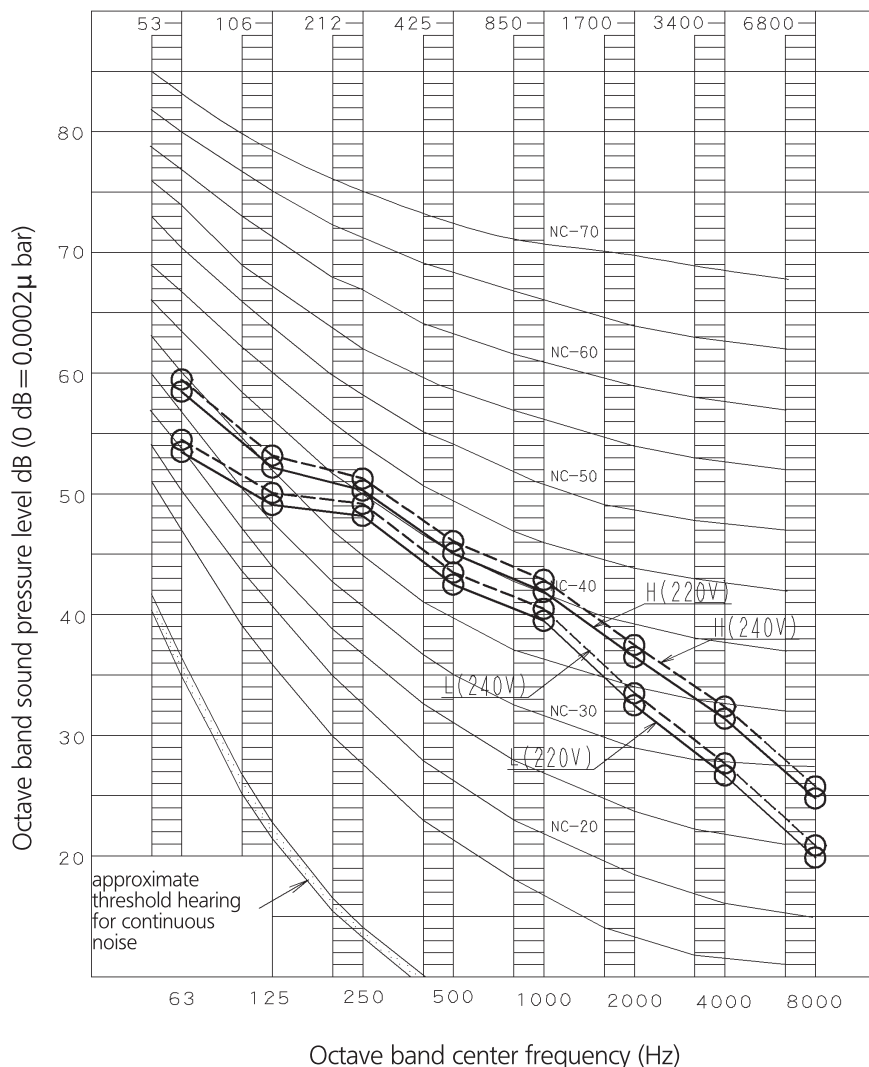
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11 Sound data

11 - 2 Sound Pressure Spectrum

FXMQ250MA

11



NOTES

1 Overall (dB)

Scale	220V		240V	
	H	L	H	L
A	48	45	49	46
C	60	56	61	57

(B,G,N is already rectified)

- Measuring place: Measure in anechoic room
- Operation noise differs with operation and ambient conditions.
- Operating conditions:
Power source 220-240V/220V 50/60Hz
- standard condition (JIS)
○—○ 220V
○---○ 240V
ESP: 132/132Pa (220V 50/60Hz)
- Location of microphone: JIS B8616

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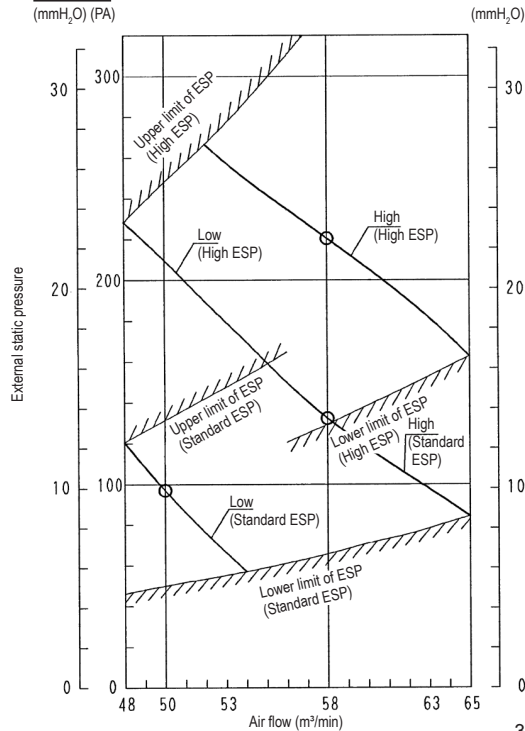
12 Fan characteristics

12 - 1 Fan Characteristics

12

FXMQ200MA

50Hz 220V
(mmH₂O) (PA)

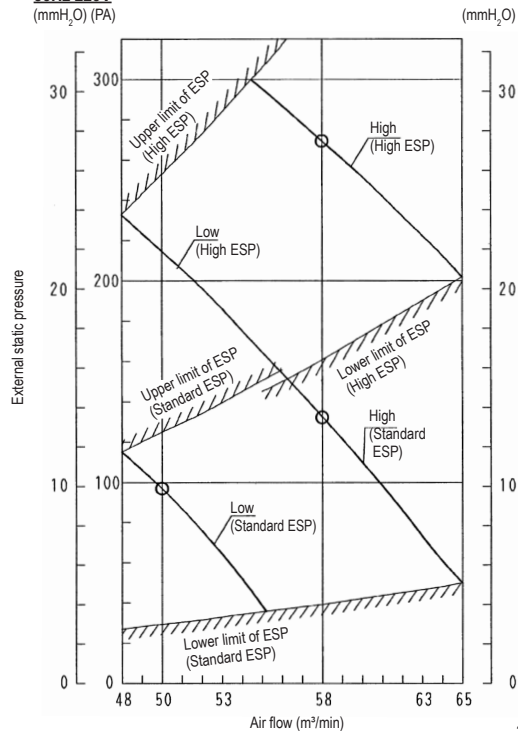


NOTES

1. The remote control can be used to switch between "high" and "low".
2. The air flow is set to "standard" before leaving the factory. It is possible to switch between "standard ESP" and "high ESP" by changing the switch in the indoor unit electrical box.

FXMQ200MA

60Hz 220V
(mmH₂O) (PA)



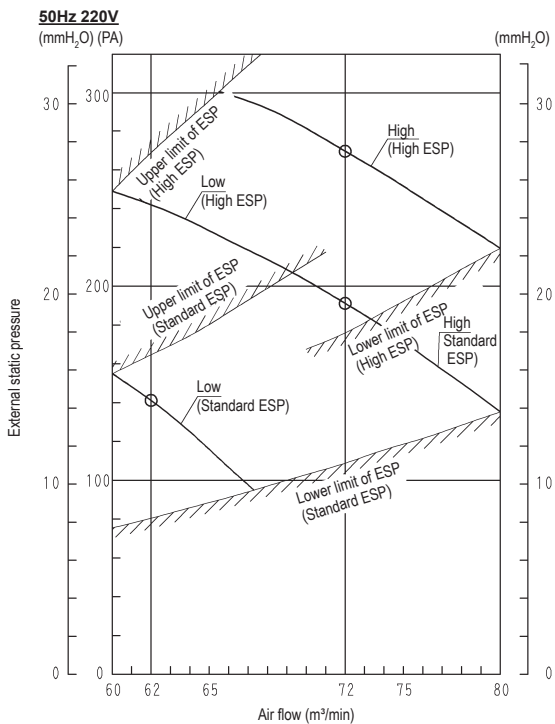
NOTES

1. The remote control can be used to switch between "high" and "low".
2. The air flow is set to "standard" before leaving the factory. It is possible to switch between "standard ESP" and "high ESP" by changing the switch in the indoor unit electrical box.

12 Fan characteristics

12 - 1 Fan Characteristics

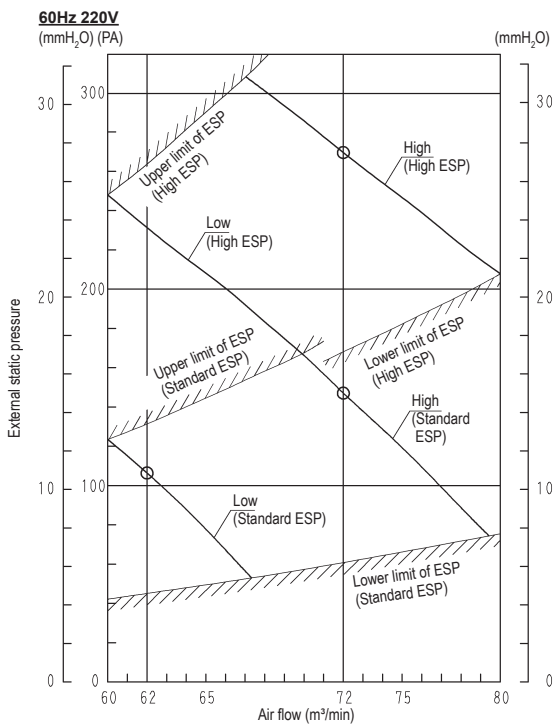
FXMQ250MA



NOTES

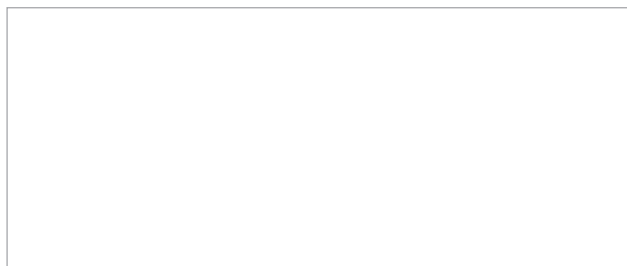
1. The remote control can be used to switch between "high" and "low".
2. The air flow is set to "standard" before leaving the factory. It is possible to switch between "standard ESP" and "high ESP" by changing the switch in the indoor unit electrical box.

FXMQ250MA



NOTES

1. The remote control can be used to switch between "high" and "low".
2. The air flow is set to "standard" before leaving the factory. It is possible to switch between "standard ESP" and "high ESP" by changing the switch in the indoor unit electrical box.



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