Concealed ceiling unit with high ESP Air Conditioning Technical Data

FXMQ-MA

FXMQ200MAVE
FXMQ250MAVE

EEDEN23

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FXMQ-MA

1 Features

1 - 1 FXMQ-MA

ESP up to 270, ideal for extra large sized spaces

1

› 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 Specifications

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	1.490	1.684
	Heating	At high fan speed		kW	1.490	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	2.0	
	Face area			m^2	0.68	
	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		Pa	132	191
		High		Pa	221 (3)	270 (3)
	External static pressure - 60Hz	Factory set		Pa	132	147
		High		Pa	270	
Fan motor	Output	High		W	380	
	Drive				Direct drive	
Sound pressure level	Cooling	At high fan speed		dBA	48	
		At low fan speed		dBA	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
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 |

2 Specifications

2 - 1 Specifications

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
FXMQ40・50・63M(A)	VE	50	220-240	MAX. 264 Min. 198	1.3	15	0.100	1.0	211	211
FXMQ80M(A)					1.5	15	0.160	1.2	284	284
FXMQ100M(A)					2.5	15	0.270	2.0	411	411
FXMQ125M(A)					3.8	15	0.430	3.0	619	619
FXMQ200M(A)					8.1	15	0.380×2	6.5	1294	1294
FXMQ250M(A)					9.0	15	0.380×2	7.2	1465	1465
FXMQ40・50・63M(A)	VE	60	220	MAX. 242 Min. 198	1.4	15	0.100	1.1	225	225
FXMQ80M(A)					1.6	15	0.160	1.3	307	307
FXMQ100M(A)					3.0	15	0.270	2.4	451	451
FXMQ125M(A)					4.4	15	0.430	3.5	745	745
FXMQ200M(A)					9.0	15	0.380×2	7.2	1490	1490
FXMQ250M(A)					10.1	15	0.380×2	8.1	1684	1684
FXMQ200MB	VE	50	220-240	MAX. 264 Min. 198	10.3	16	1.100	4.3	895	895
FXMQ250MB					10.3	16	1.100	5.6	1185	1185

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.

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

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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		250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	——	——	——
	Fan motor thermal protector	°C	OFF: 135±5 (ON: 86±15)	OFF: 135±5 (ON: 86±15)	OFF: 135±5 (ON: 86±15)	OFF: 135±5 (ON: 86±15)	OFF: 135±5 (ON: 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	169	169	——	——	——
FXH~LVE FXHQ~MVE FXHQ~MVET	PC board fuse		——	——	250V 5A	——	——	250V 5A	——	250V 5A	——	——	——	——
	Fan motor thermal protector	°C	——	——	OFF: 130 ±5 ON: 80 ±20	——	——	OFF: 130 ±5 ON: 80 ±20	——	OFF: 130 ±5 ON: 80 ±20	——	——	——	——
FXC~LVE FXCQ~MVE	PC board fuse		250V 5A	250V 5A	250V 5A	250V 5A	250V 5A	250V 5A	250V 5A	——	250V 5A	——	——	——
	Fan motor thermal protector	°C	OFF: 135±5 (ON: 86±15)	OFF: 135±5 (ON: 86±15)	OFF: 135±5 (ON: 86±15)	OFF: 135±5 (ON: 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	——	169	——	——	——
FXK~LVE FXKQ~MVE	PC board fuse		——	250V 5A	250V 5A	250V 5A	——	250V 5A	——	——	——	——	——	——
	Fan motor thermal fuse	°C	——	146 +3	146 +3	——	——	——	——	——	——	——	——	——
	Fan motor thermal protector	°C	——	——	——	OFF: 120±5 ON: 105 or less	——	OFF: 120±5 ON: 105 or less	——	——	——	——	——	——
	Drain pump thermal fuse	°C	——	145	145	145	——	145	——	——	——	——	——	——
FXM~LVE FXMQ~MVE	PC board fuse		——	——	——	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	250V 10A	——	250V 10A	250V 10A
	Fan motor thermal protector	°C	——	——	——	OFF: 135±8 (ON: 87±15)	OFF: 135±8 (ON: 87±15)	OFF: 135±8 (ON: 87±15)	OFF: 135±8 (ON: 87±15)	OFF: 135±8 (ON: 87±15)	OFF: 135±8 (ON: 87±15)	——	OFF: 135±8 (ON: 87±15)	OFF: 135±8 (ON: 87±15)
FXMQ~MFV1	PC board fuse		——	——	——	——	——	——	——	——	250V 10A	——	250V 10A	250V 10A
	Fan motor thermal protector	°C	——	——	——	——	——	——	——	——	OFF: 135±8 (ON: 85±15)	——	OFF: 135±8 (ON: 85±15)	OFF: 135±8 (ON: 85±15)
FHQ~PV4A	PC board fuse		——	——	——	——	——	——	——	250V 5A	250V 5A	——	——	——
	Fan motor thermal protector	°C	——	——	——	——	——	——	——	OFF: 130 ±5 ON: 80 ±20	OFF: 130 ±5 ON: 80 ±20	——	——	——
FXMQ~PVE(D)	PC board fuse		250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	——	——
	PC board fuse (Fan driver)		250V 5A	250V 5A	250V 5A	250V 5A	250V 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	——	——
FXMQ~PVET	PC board fuse		250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	——	——
	PC board fuse (Fan driver)		250V 5A	250V 5A	250V 5A	250V 5A	250V 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	——	——
FXMQ~MVET	PC board fuse		——	——	——	——	——	——	——	——	——	——	250V 10A	250V 10A
	Drain pump thermal fuse	°C	——	——	——	——	——	——	——	——	——	——	OFF: 135±8 (ON: 87±15)	OFF: 135±8 (ON: 87±15)
FXSQ~PVE(4) FXSQ~PV2S	PC board fuse		250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	——	——
	PC board fuse (Fan driver)		250V 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 board fuse		——	——	——	——	——	——	——	——	——	——	250V 3.15A	250V 3.15A
	PC board fuse (Fan driver)		——	——	——	——	——	——	——	——	——	——	250V 20A	250V 20A
FXBQ~PVE(4) FXBPQ63PVE(4)	PC board fuse		——	——	——	250V 10A	250V 10A	250V 10A	——	——	——	——	——	——
	Fan motor thermal protector	°C	——	——	——	OFF: 125±5 (ON: 79±15)	OFF: 125±5 (ON: 79±15)	OFF: 135±5 (ON: 86±15)	——	——	——	——	——	——
FXPQ~AVN	PC board fuse		——	250V 5A	——	——	——	——	——	——	——	——	——	——
	Fan motor thermal protector	°C	——	OFF: 145±5 (ON: 94±15)	——	——	——	——	——	——	——	——	——	——
FXPQ~AAVN	PC board fuse		——	250V 3.15A	——	——	——	——	——	——	——	——	——	——

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5 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		KAF371M280			
		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~MVE	FXM~L FXMQ~MAVE FXMQ~MVET	FXH~L FXHQ~MAVE FXHQ~MVET	FXMQ~MFV1	FXMQ~MBVE	FXBQ~PVE FXBPQ~PVE
1	Remote controller	Wireless	H/P	BRC7C62	BRC4C61	BRC4C62		BRC7EA63W	-	BRC4C65	BRC4C62
			C/O	BRC7C67	BRC4C63	BRC4C64		BRC7EA66	-	BRC4C66	BRC4C64
		Wired		BRC1C62 • BRC1D61 • BRC1E61						BRC1E52	BRC1C62
2	Simplified remote controller			-		BRC2C51		-	-	BRC2E52C	BRC2C51
3	Remote controller for hotel use			-		BRC3A61		-	-	BRC3E52C	BRC3A61
4	Adaptor for wiring			★KRP1B61	KRP1B61			KRP1BA54	KRP1B61	KRP1C64	KRP1B61
5-1	Wiring adaptor for electrical appendices(1)			★KRP2A61	KRP2A61			★KRP2A62	KRP2A61		
5-1	Wiring adaptor for electrical appendices(2)			★KRP4AA51	KRP4AA51			★KRP4AA52	KRP4AA51		
6	Remote sensor			KRCS01-1B					-	KRCS01-4B	KRCS01-1B
7	Installation box for adaptor PCB.			Note 2, 3 KRP1B96	-	Note 5 KRP4A91	-	Note 3 KRP1CA93	-	-	-
8	Central remote controller			DCS302CA61							
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							
9-2	Noise filter (for electromagnetic interface use only)			KEK26-1A							
10	Schedule timer			DST301BA61							
11	Intelligent touch controller			DCS601C51							
12	Intelligent touch manager			DCM601A51							
13	External control adaptor 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 adaptor		Note 8)	-	BRP7A51	-	-	-	-	-	-

NOTES

1. Installation box (No. 7) is necessary for each adaptor marked ★.
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box (No. 7) is necessary for second adaptor.
6. Installation box (No. 7) is necessary for each adaptor.
7. 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 contoller 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

6 Capacity tables

6 - 3 Capacity Correction Factor

FXMQ-MA

6

		Capacity correction factor Te = 9°C						
	Indoor air temperature	14.0 °CWB 20.0 °CDB	16.0 °CWB 23.0 °CDB	18.0 °CWB 26.0 °CDB	19.0 °CWB 27.0 °CDB	20.0 °CWB 28.0 °CDB	22.0 °CWB 30.0 °CDB	24.0 °CWB 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_c 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_t 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 hochfühlbaren Leistungsmodus = Gesamtleistung für normale Leistungstabelle x GL-Verhältnis.
SHF: SHF für hochfühlbaren 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_c 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_t 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_c 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_t 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_c 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_t 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_c 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_t 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_c 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_t 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_c 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_t komt overeen met ratiowaarde Te = 9°C TC voor elk type binnenunit, afhankelijk van de omgevingstemperatuur van de binnenunit 29/19 °CDB/°CNB

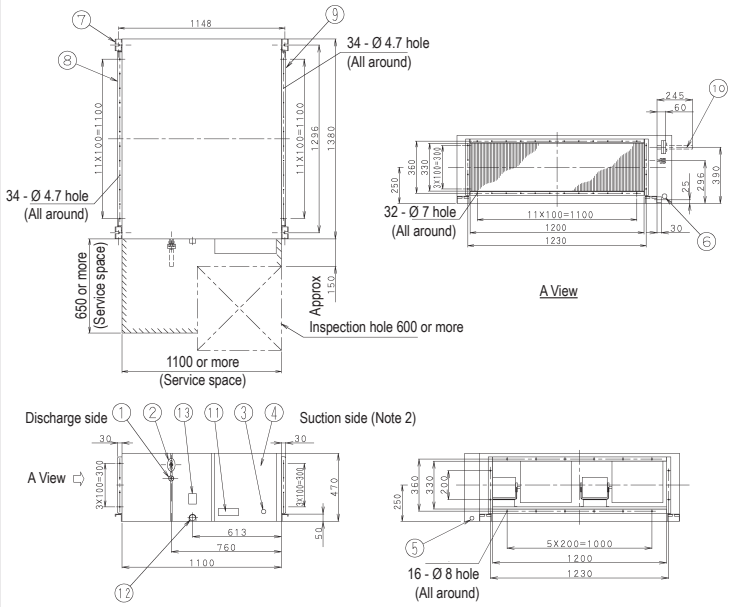
Как пользоваться этой таблицей:
Производительность: Суммарная мощность для режима высокой производительности по сухому теплу = Суммарная мощность по таблице обычной мощности X коэффициент TC.
SHF: SHF для режима высокой производительности по сухому теплу =
SHF по таблице обычной мощности X коэффициент 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_c 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_t 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_c 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_t 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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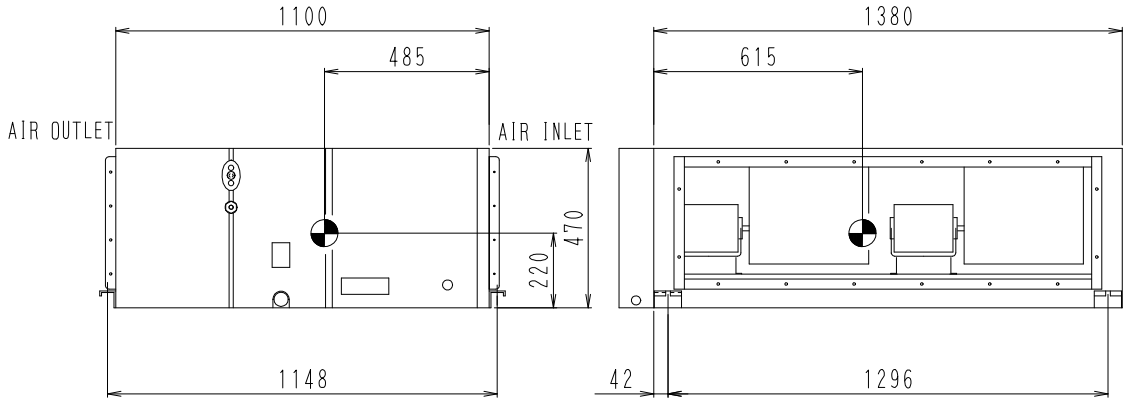
8 Centre of gravity

8 - 1 Centre of Gravity

FXMQ-MA



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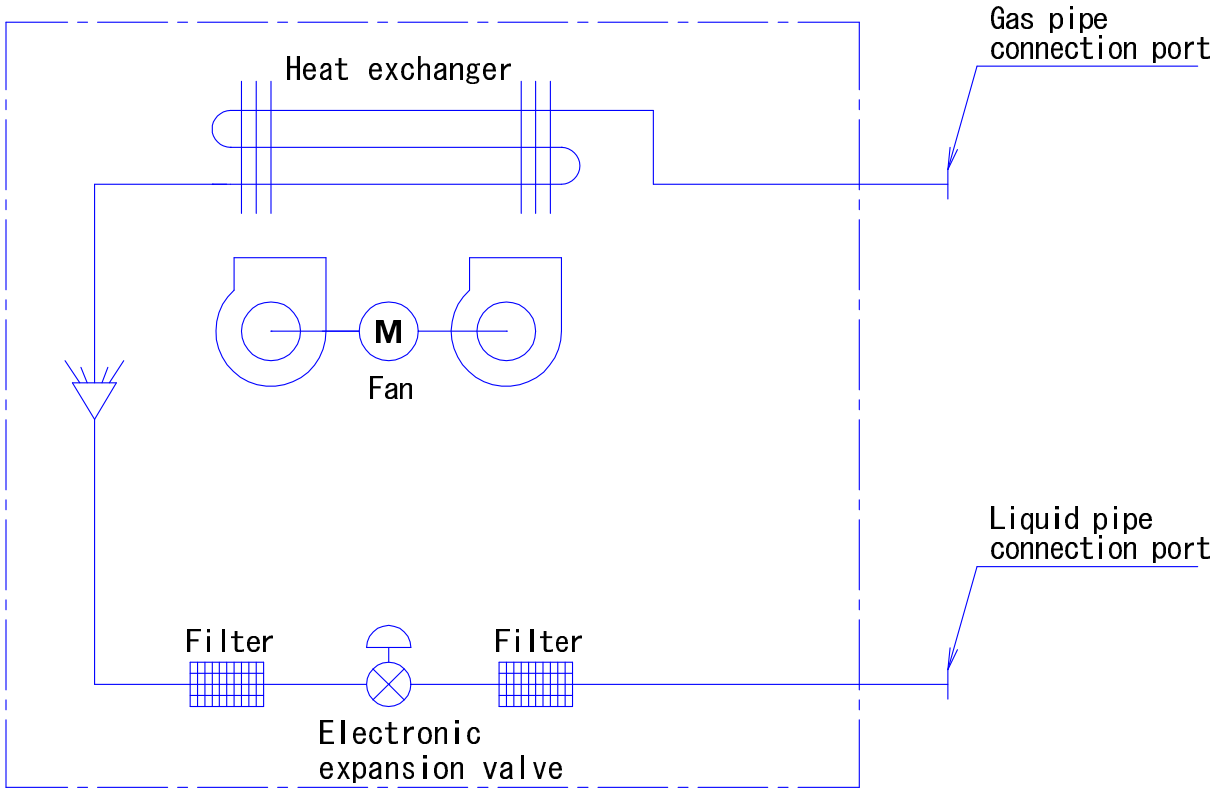
9 Piping diagrams

9 - 1 Piping Diagrams

FXMQ-MA



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
ＦＸＨＱ

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10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

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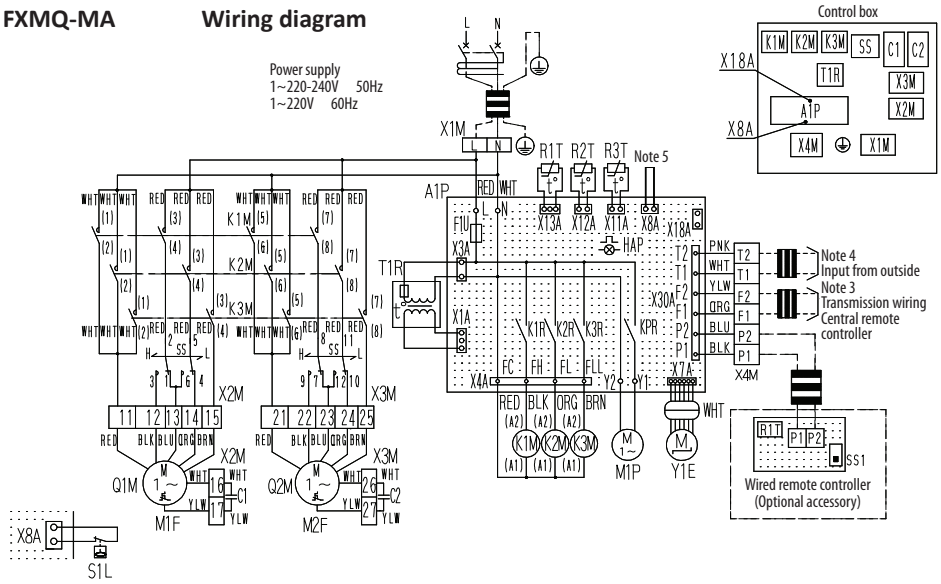
FXMQ-MA **Wiring diagram**



NOTES

1. ▭▭▭ : Terminal block ⊂⊃ : Short circuit connector
   ⊂⊃ : Connector —○— : Terminal
2. ▭▮▭ : field wiring
3. In case using central remote controller, connect it to the unit in accordance with the attached instruction manual.
4. 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.
5. In case installing the drain pump, remove the short circuit connector of X8A and execute the additional wiring for float switch and drain pump.
6. Symbols show as follows:
   PNK: pink, WHT: white, YLW: yellow, ORG: orange, BLU: blue, BLK: black, RED: red, BRN: brown.
7. Use copper conductors only.
8. In case high E.S.P. operation, change the switch(ss) for "H".

Indoor unit	
A1P	Printed circuit board
C1·C2	Capacitor (M1F·2F)
F1U	Fuse (T, 5A, 250V)
HAP	Light emitting diode (servcie 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 adaptor for electorical appendices)

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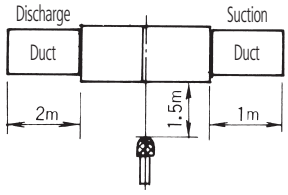
11 Sound data

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.

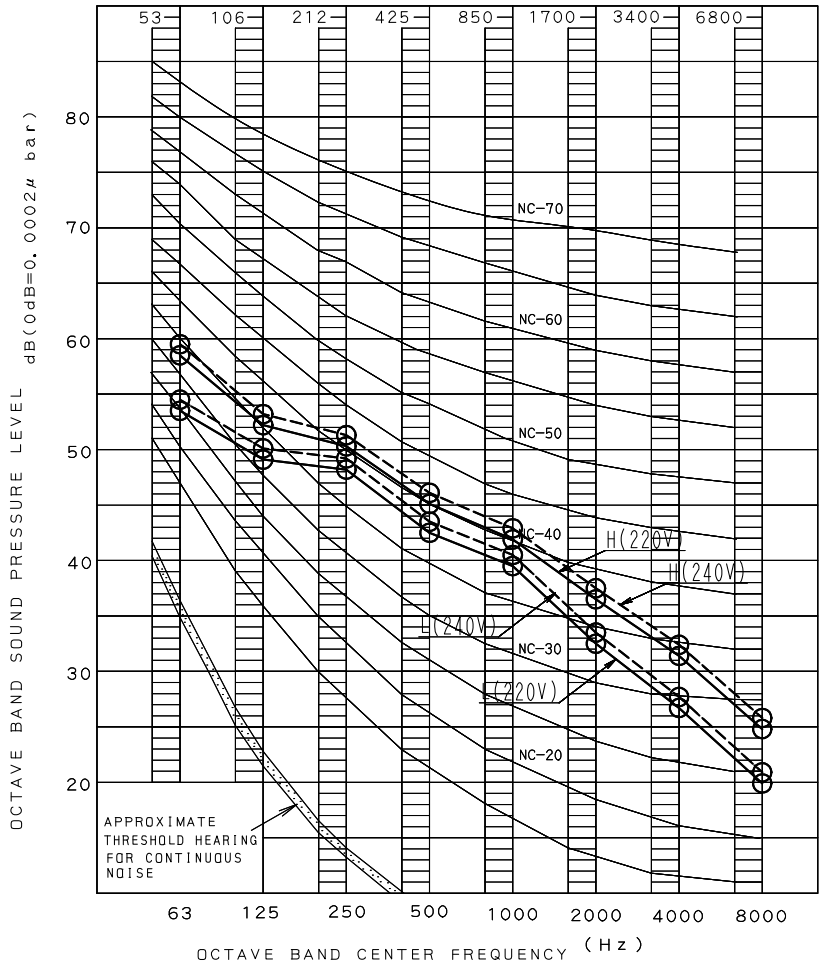
2 Measuring place: anechoic chamber

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



OVER ALL (dB)

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

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE 220-240/220V 50/60Hz

STANDARD CONDITIONS(JIS)

220V

240V

E.S.P: 132/132Pa(220V 50/60Hz H)

MEASURING PLACE

ANECHOIC CHAMBER

LOCATION OF MICROPHONE

JIS B8616

NOTE: Operation noise differs with operation and ambient conditions.

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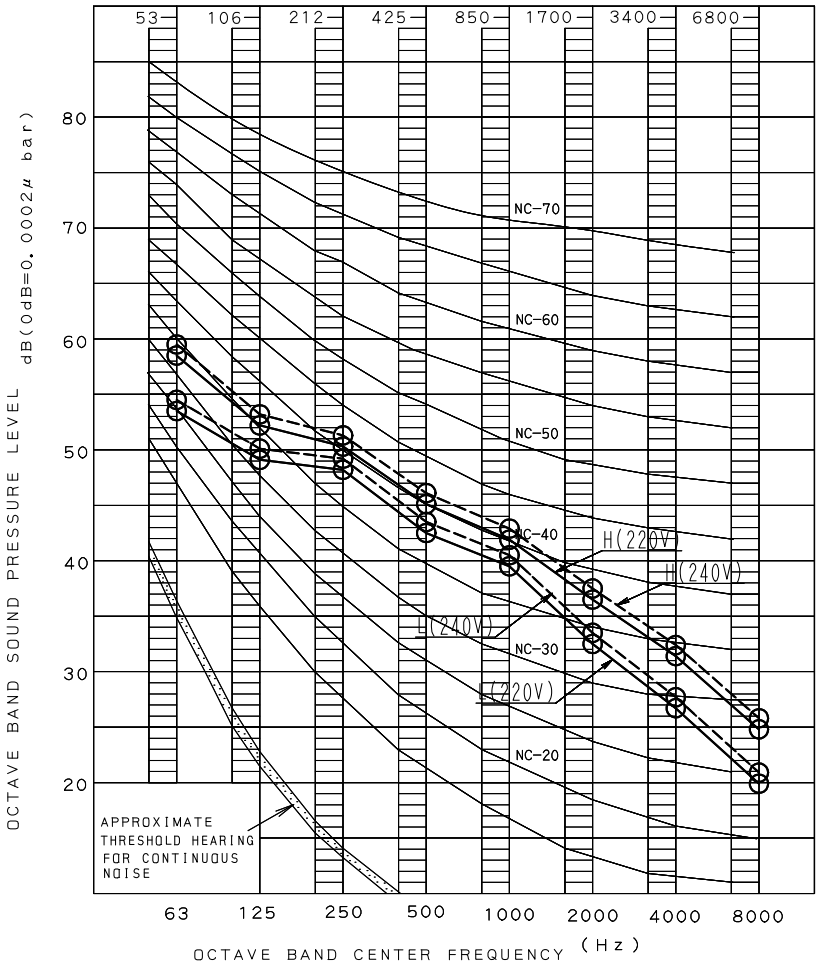
11 Sound data

11 - 2 Sound Pressure Spectrum

FXMQ250MA



OVER ALL (dB)

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

(B.G.N IS ALREADY RECTIFIED)

OPERATING CONDITIONS

POWER SOURCE 220-240/220V 50/60Hz

STANDARD CONDITIONS(JIS)

220V

240V

E.S.P: 191/147Pa(220V 50/60Hz H)

MEASURING PLACE

ANECHOIC CHAMBER

LOCATION OF MICROPHONE

JIS B8616

NOTE: Operation noise differs with operation and ambient conditions.

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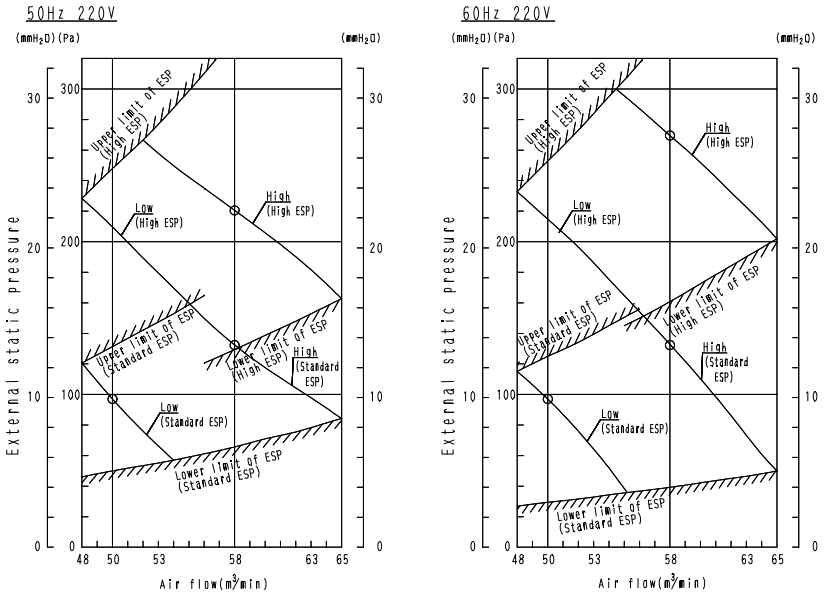
12 Fan characteristics

12 - 1 Fan Characteristics

FXMQ200MA



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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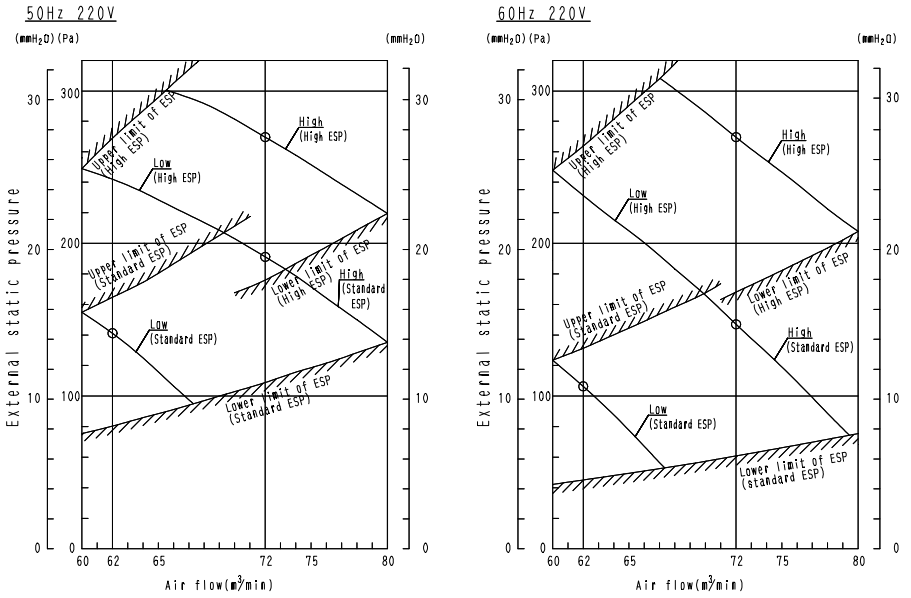
FXMQ250MA



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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