



Air Conditioning

Technical Data

Large concealed ceiling unit



EEDEN14-204

FXMQ-MA

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1 Features

- Up to 270Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Up to 31.5kW in heating mode



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



Drain pump kit

2 Specifications

2-1 Technical Specifications					FXMQ200MA		FXMQ250MA	
Cooling capacity	Nom.			kW	22.4 (1)		28.0 (1)	
Heating capacity	Nom.			kW	25.0 (2)		31.5 (2)	
Power input - 50Hz	Cooling	Nom.	kW	1.294		1.465		
	Heating	Nom.	kW	1.294		1.465		
Power input - 60Hz	Cooling	Nom.	kW	1.490		1.684		
	Heating	Nom.	kW	1.490		1.684		
Casing	Material				Galvanised steel plate			
Dimensions	Unit	Height	mm		470			
		Width	mm		1,380			
		Depth	mm		1,100			
Weight	Unit			kg	137			
Heat exchanger	Rows	Quantity			3			
	Fin pitch			mm	2.0			
	Face area			m²	0.68			
	Stages	Quantity			26			
Fan	Type				Sirocco fan			
	Quantity				2			
	Air flow rate - 50Hz	Cooling	High	m³/min	58		72	
			Low	m³/min	50		62	
	Air flow rate - 60Hz	Cooling	High	m³/min	58		72	
			Low	m³/min	50		62	
	External static pressure - 50Hz	High		Pa	221		270	
		Nom.		Pa	132		191	
	External static pressure - 60Hz	High		Pa	270			
		Nom.		Pa	132		147	
Fan motor	Quantity				2			
	Model				D13/4G2DA1			
	Output	High		W	380			
	Drive				Direct drive			
Sound pressure level	Cooling	High		dBA	48			
		Low		dBA	45			
Refrigerant	Type				R-410A			
	Control				Electronic expansion valve			
Piping connections	Liquid	Type			Flare connection			
		OD		mm	9.52			
	Gas	Type			Brazed connection			
		OD		mm	19.1		22.2	
	Drain				PS1B			
	Heat insulation				Glass fiber			
	Sound absorbing insulation				Glass fiber			
Temperature control					Microprocessor thermostat for cooling and heating			
Safety devices	Item	01			Fuse			
		02			Fan motor thermal protection			

Standard Accessories : Screws;
 Standard Accessories : Clamps;
 Standard Accessories : Sealing pads;
 Standard Accessories : Connection pipes;
 Standard Accessories : Installation and operation manual;

2-2 Electrical Specifications				FXMQ200MA	FXMQ250MA
Power supply	Name			VE	
	Phase			1~	
	Frequency		Hz	50/60	
	Voltage		V	220-240/220	
Voltage range	Min.		%	-10	
	Max.		%	10	

2 Specifications

2-2 Electrical Specifications				FXMQ200MA	FXMQ250MA
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	
	Full load amps (FLA)	Total	A	7.2	8.1

Notes

- (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) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- (4) The external static pressure is changeable: change the connectors inside the electrical box, this pressure means: High static pressure - Standard
- (5) 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.
- (6) Sound pressure levels are measured at 220V.
- (7) Reference acoustic pressure 0 dB = 20 Pa.
- (8) Sound values are measured in an anechoic room.
- (9) Operation sound differs with operation and ambient conditions
- (10) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- (11) Maximum allowable voltage range variation between phases is 2%.
- (12) MCA/MFA: $MCA = 1.25 \times FLA$
- (13) $MFA \leq 4 \times FLA$
- (14) Next lower standard fuse rating minimum 15A
- (15) Select wire size based on the value of MCA
- (16) 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		200	250
PC board fuse		250V 10A	250V 10A
Fan motor thermal fuse	°C	-	-
Fan motor thermal protector	°C	OFF: 135 ^{±5} (ON: 87 ^{±15})	OFF: 135 ^{±5} (ON: 87 ^{±15})

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5 Options

5 - 1 Options

FXMQ-MA

Item		Model	Duct Type	
			FXMQ200MA	FXMQ250MA
Drain pump kit		Type	KDU30L250VE	
		Z No.	Z980500	
High efficiency filter	65%	Type	KAFJ372L280	
		AS No.	AS3600873	
	90%	Type	KAFJ373L280	
		AS No.	AS36000873	
Filter chamber		Type	KDJ3705L280	
		AS No.	AS3600874	
Long life replacement filter		Type	KAFJ371L280	
		AS No.	AS3600872	

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NOTE

- See the latest for the modification marks.

FXMQ-MA

Item			Type	FXMQ-MA
Remote controller			Infrared	BRC4C62
			Wired	BRC1D52 / BRC1E52A/B
Simplified remote controller				BRC2C51
Remote control for hotel use				BRC3A61
Adapter for wiring				KRP1B61
Wiring adapter for electrical appendices (1)				KRP2A61
Wiring adapter for electrical appendices (2)				KRP4AA51
Remote sensor				KRCS01-1B
Central remote control				DCS302C51
Electric box with earth terminal - 3 blocks				KJB311AA
Unified ON/OFF control				DCS301B51
Electric box with earth terminal - 2 blocks				KJB212AA
Noise filter (for electromagnetic interface use only)				KEK26-1A
Schedule timer				DST301B51
External control adapter for outdoor unit (must be installed on indoor unit)				DTA104A61

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Notes:

- (1):Up to 2 installation boxes can be installed for each indoor unit.
 (2):Installation box (No. 7) is necessary for each adaptor.

6 Capacity tables

6 - 1 Cooling Capacity Tables

FXMQ-MA

TC: Total capacitykW – SHC: Sensible capacitykW

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
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

		Capacity correction factor $T_e = 9^\circ\text{C}$						
	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_c corresponds with $T_e = 9^\circ\text{C}$ TC ratio value for each type of Indoor unit, depending on indoor ambient design temperature $X/Y^\circ\text{CDB}/^\circ\text{CWB}$
- Correction C_c corresponds with $T_e = 9^\circ\text{C}$ TC ratio value for each type of indoor unit, depending on indoor ambient temperature $29/19^\circ\text{CDB}/^\circ\text{CWB}$

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_c entspricht dem GL-Verhältnisswert für $T_e = 9^\circ\text{C}$ für jeden Innengerätetyp, in Abhängigkeit von der Innen-Entwurfstemperatur $X/Y^\circ\text{C TK}/^\circ\text{C FK}$
- Korrektur C_c entspricht dem GL-Verhältnisswert für $T_e = 9^\circ\text{C}$ für jeden Innengerätetyp, in Abhängigkeit von der Innentemperatur $29/19^\circ\text{C TK}/^\circ\text{C FK}$

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 RADX + εσωτερική μονάδα VRV DX),

- Το C_c διορθώσης αντιστοιχεί σε $T_e = 9^\circ\text{C}$ TC τιμή λόγου για κάθε τύπο εσωτερικής μονάδας, ανάλογα με την εσωτερική θερμοκρασία σχεδίου περιβάλλοντος $X/Y^\circ\text{CDB}/^\circ\text{CWB}$
- Το C_c διορθώσης αντιστοιχεί σε $T_e = 9^\circ\text{C}$ TC τιμή λόγου για κάθε τύπο εσωτερικής μονάδας, ανάλογα με την εσωτερική θερμοκρασία περιβάλλοντος $29/19^\circ\text{CDB}/^\circ\text{CWB}$

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 $T_e = 9^\circ\text{C}$ valor de relación TC para cada tipo de unidad interior, en función de la temperatura de diseño ambiente interior $X/Y^\circ\text{CDB}/^\circ\text{CBH}$
- La corrección C_c corresponde a $T_e = 9^\circ\text{C}$ valor de relación TC para cada tipo de unidad interior, en función de la temperatura ambiente interior $29/19^\circ\text{CDB}/^\circ\text{CBH}$

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 $T_e = 9^\circ\text{C}$ / valeur de rapport PT pour chaque type d'unité intérieure, pour une température ambiante intérieure de calcul de $X/Y^\circ\text{CDB}/^\circ\text{CBH}$
- La correction C_c correspond à $T_e = 9^\circ\text{C}$ / valeur de rapport PT pour chaque type d'unité intérieure, pour une température ambiante intérieure de $29/19^\circ\text{CDB}/^\circ\text{CBH}$

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 $T_e = 9^\circ\text{C}$ valore rapporto TC per ogni tipo di unità interna, in base alla temperatura interna di progetto $X/Y^\circ\text{CDB}/^\circ\text{CBU}$
- La Correzione C_c corrisponde a $T_e = 9^\circ\text{C}$ valore rapporto TC per ogni tipo di unità interna, in base alla temperatura interna di progetto $29/19^\circ\text{CDB}/^\circ\text{CBU}$

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 $T_e = 9^\circ\text{C}$ TC voor elk type binnenunit, afhankelijk van de ontwerptemperatuur van de binnenunit $X/Y^\circ\text{CDB}/^\circ\text{CNB}$
- Correctie C_c komt overeen met ratiowaarde $T_e = 9^\circ\text{C}$ TC voor elk type binnenunit, afhankelijk van de omgevingstemperatuur van de binnenunit $29/19^\circ\text{CDB}/^\circ\text{CNB}$

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 RADX + внутренние блоки VRV DX):

- Корректировка C_c соответствует значению коэффициента TC $T_e = 9^\circ\text{C}$ для каждого типа внутренних блоков, в зависимости от расчетной температуры в помещении $X/Y^\circ\text{C сух.т.}/^\circ\text{C в.т.}$
- Корректировка C_c соответствует значению коэффициента TC $T_e = 9^\circ\text{C}$ для каждого типа внутренних блоков, в зависимости от температуры в помещении $29/19^\circ\text{C сух.т.}/^\circ\text{C в.т.}$

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

Karşık kombinasyonlar (RADX iç üniteler + VRV DX iç üniteler) için ünite seçimi yapılırken,

- C_c düzeltme faktörü, $X/Y^\circ\text{C KT}/^\circ\text{C YT}$ iç ortam tasarım basıncına bağlı olarak her bir iç ünite tipi için $T_e = 9^\circ\text{C}$ TC oranına karşılık gelir
- C_c düzeltme faktörü, $29/19^\circ\text{C KT}/^\circ\text{C YT}$ iç ortam tasarım basıncına bağlı olarak her bir iç ünite tipi için $T_e = 9^\circ\text{C}$ TC oranına karşılık gelir

6 Capacity tables

6 - 3 Capacity Correction Factor

FXMQ-MA

		Capacity correction factor Te = 11 °C						
	Indoor air temperature	14.0 °CWB	16.0 °CWB	18.0 °CWB	19.0 °CWB	20.0 °CWB	22.0 °CWB	24.0 °CWB
		20.0 °CDB	23.0 °CDB	26.0 °CDB	27.0 °CDB	28.0 °CDB	30.0 °CDB	32.0 °CDB
FXMQ200MA	TC	0.544	0.563	0.593	0.634	0.668	0.722	0.759
	SHF	1.136	1.226	1.253	1.195	1.155	1.114	1.097
FXMQ250MA	TC	0.548	0.578	0.617	0.657	0.685	0.728	0.765
	SHF	1.129	1.209	1.230	1.178	1.146	1.108	1.095

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

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

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

Leistung: Gesamtleistung für hochfühlbaren Leistungsmodus = Gesamtleistung für normale Leistungstabelle x GL-Verhältnis.

Απόδοση: Συνολική απόδοση για τη λειτουργία υψηλής ευαισθησίας = Συνολική απόδοση για τον πίνακα κανονικών αποδόσεων X αναλογία TC

Capacidad: Capacidad total para el modo de alta sensibilidad = Capacidad total para la tabla de capacidad normal X relación TC.

Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.

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

Capaciteit: totale capaciteit in modus grote ("High") gevoeligheid = totale capaciteit uit de tabel met normale capaciteiten x TC-ratio.

Производительность: Общая производительность для режима с высоким коэфф. оцутимого охлаждения = Общая производительность для нормального режима, таблица X коэфф. TC.

Kapasite: Yüksek algı modu için toplam kapasite = Normal kapasite tablosundaki toplam kapasite değeri x TC oranı.

- Sensible capacity (SHF): SHF for High sensible mode = SHF for normal capacity table X SHF ratio .

Fühbare Leistung (SHF): SHF für hochfühlbaren Leistungsmodus = SHF für normale Leistungstabelle x SHF-Verhältnis.

Αισθητή απόδοση (SHF): SHF για λειτουργία υψηλής ευαισθησίας = SHF για πίνακα κανονικών αποδόσεων X αναλογία SHF .

Capacidad sensible (FCS): SHF para el modo de alta sensibilidad = SHF para la tabla de capacidad normal X relación SHF.

Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.

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

Gevoeligheidscapaciteit (WGF (warmtegevoelsfactor)– in het Engels "SHF"): WGF voor de modus grote ("High") gevoeligheid = WGF uit de tabel met normale capaciteiten x WGF-ratio.

Ощутимая производительность (SHF): SHF для режима с высоким коэфф.

ощутимого охлаждения = SHF для нормального режима, таблица X коэфф. SHF.

Algılanabilir kapasite (SHF): Yüksek algı modu için SHF = Normal kapasite tablosundaki SHF değeri x SHF oranı.

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

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

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

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

Si FCS est supérieur à 1 , utilisez « 1 » pour FCS.

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

Indien WGF groter is dan 1, neem dan "1" voor WGF.

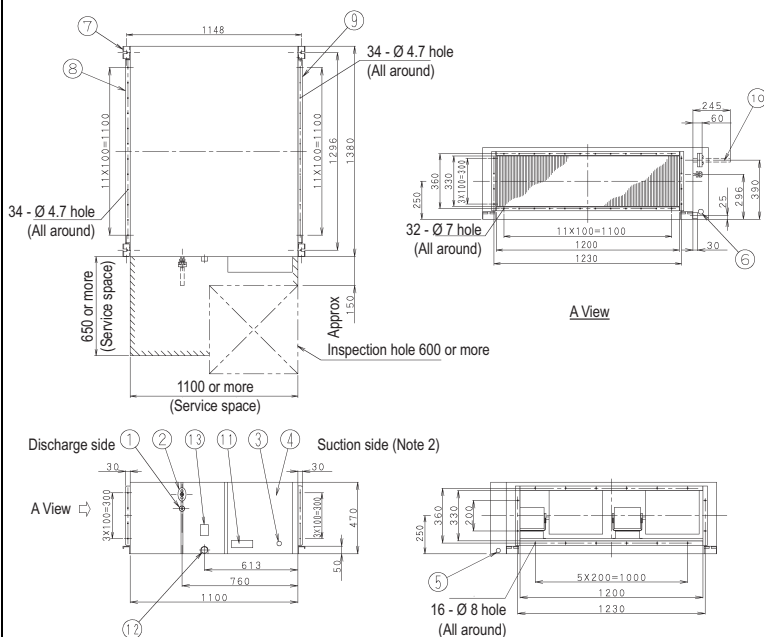
Если SHF больше 1, то SHF равен "1"

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

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

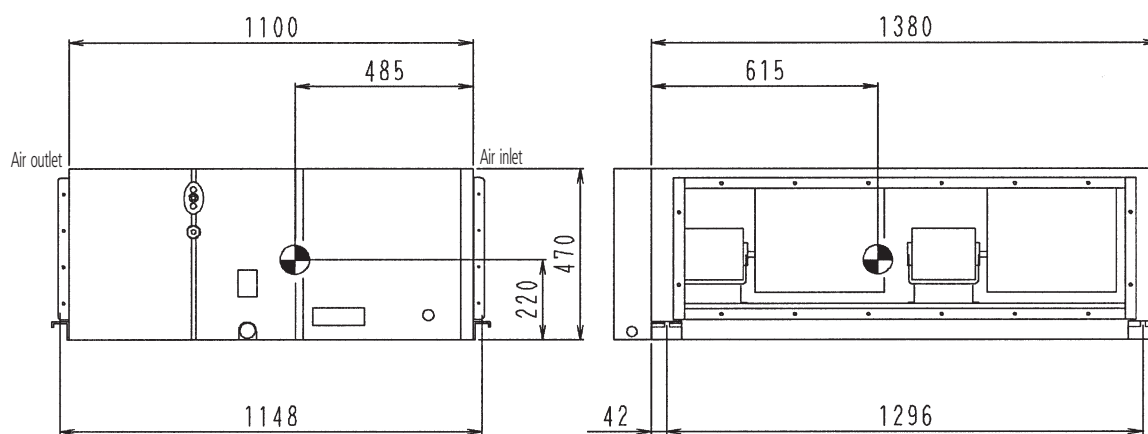
1. Location of unit's Name Plates: Switch box surface.
2. Mount the air filter at the suction side. Select its colorimethod (gravity method) 50% or more.

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8 Centre of gravity

8 - 1 Centre of Gravity

FXMQ200,250MA



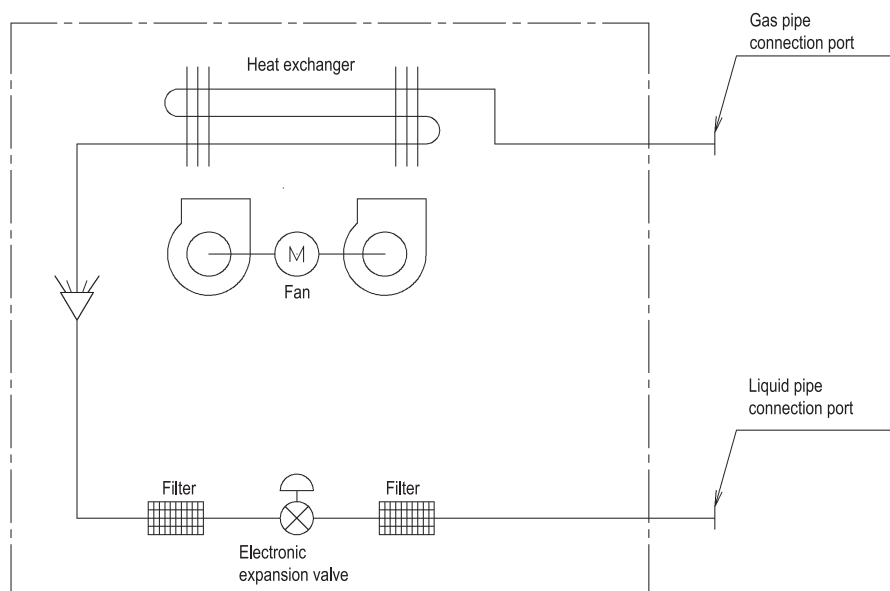
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9 Piping diagrams

9 - 1 Piping Diagrams

9

FXMQ-MA

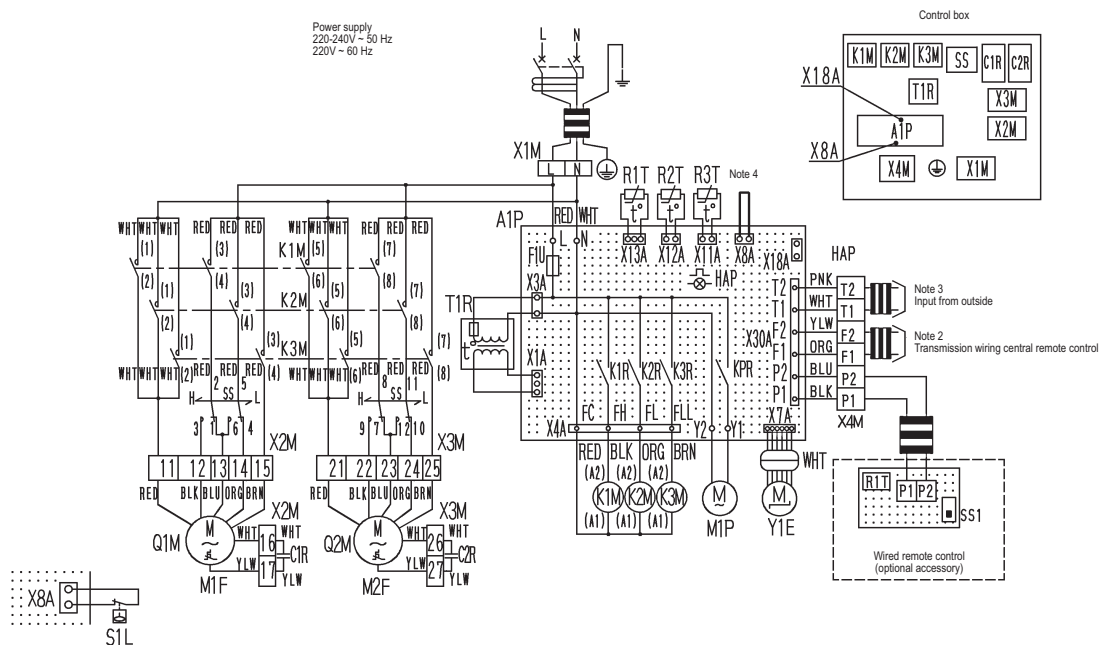


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10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXMQ200,250MA



Indoor unit		R2T, R3T	Thermistor (coil)	Wired remote control	
A1P	Printed circuit board	SS	Selector switch (static pressure)	R1T	Thermistor (air)
C1R, C2R	Capacitor (M1F, 2F)	T1R	Transformer (220-240V/22V)	SS1	Select switch (main/sub)
F1U	Fuse (5A, 250V)	X1M	Terminal block (power)	Connector for optional parts	
HAP	Light emitting diode (service monitor-green)	X2M, X3M	Terminal block	X8A	Connector (float switch)
K1M	Magnetic contactor (M1F, 2F)	X4M	Terminal block (control)	X18A	Connector (wiring adapter for electrical appendices)
K2M	Magnetic contactor (M1F, 2F)	Y1E	Electronic expansion valve		
K3M	Magnetic contactor (M1F, 2F)	Optional parts			
K1R - K3R	Magnetic relay (M1F, 2F)	M1P	Motor (drain pump)		
KPR	Magnetic relay (M1P)				
M1F, M2F	Motor (indoor fan)				
Q1M, Q2M	Thermo switch (M1F, 2F embedded)				
R1T	Thermistor (air)				

PNK: pink	WHT: white
YLW: yellow	ORG: orange
BLU: blue	BLK: black
RED: red	BRN: brown

3D039621D

NOTES

- : terminal block, □□□□ : connector, —○— : terminal, □□□□ : short circuit connector, —□— : field wiring
- In case using central remote control, connect it to the unit in accordance with the attached instruction manual.
- When connecting the input wires from outside, forced off or on/off control operation can be selected by remote control. In details, refer to the installation manual attached to the unit.
- In case installing the drain pump, remove the short circuit connector of X8A and execute the additional wiring for float switch and drain pump.
- Use copper conductors only.
- In case high E.S.P. operation, change the switch (SS) for 'H'.

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		*

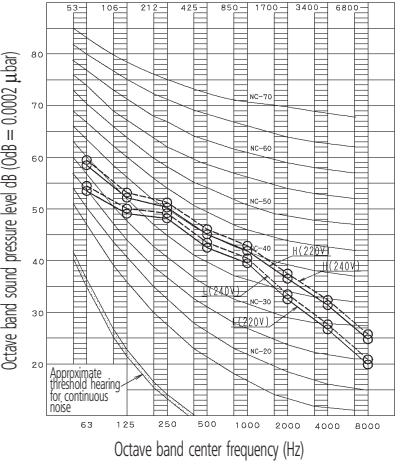
NOTES

- 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

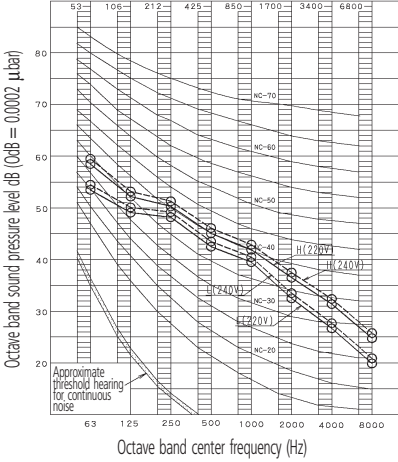
11 Sound data

11 - 2 Sound Pressure Spectrum

FXMQ200MA 4D035168



FXMQ250MA 4D035169



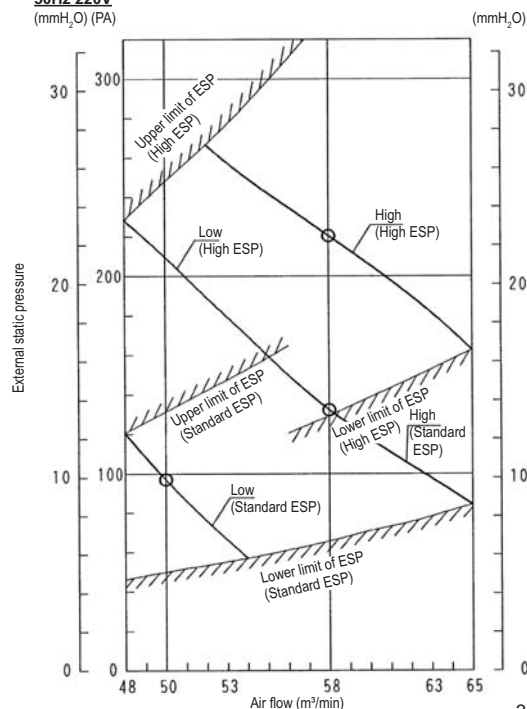
12 Fan characteristics

12 - 1 Fan Characteristics

12

FXMQ200MA

50Hz 220V
(mmH₂O) (PA)



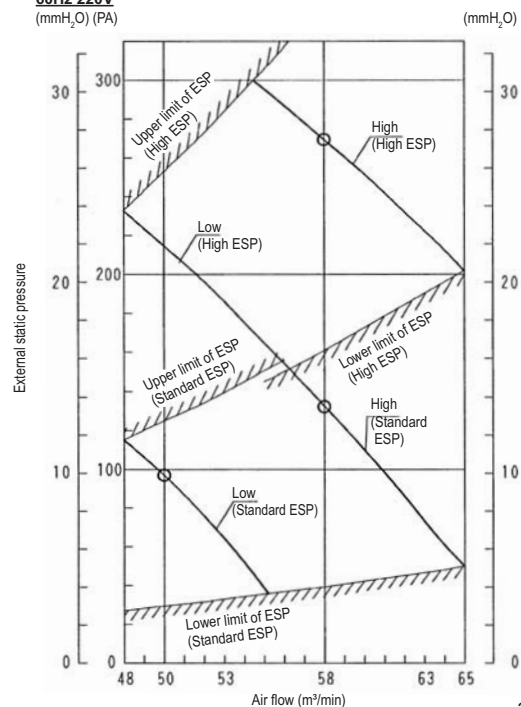
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NOTES

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)



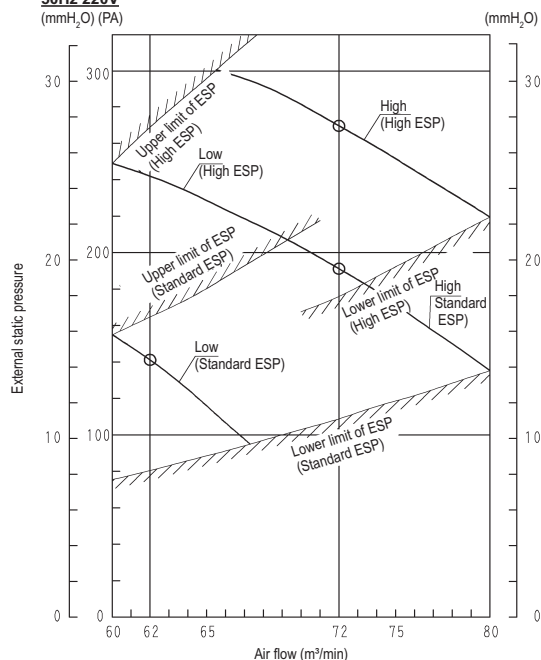
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NOTES

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

50Hz 220V
(mmH₂O) (PA)



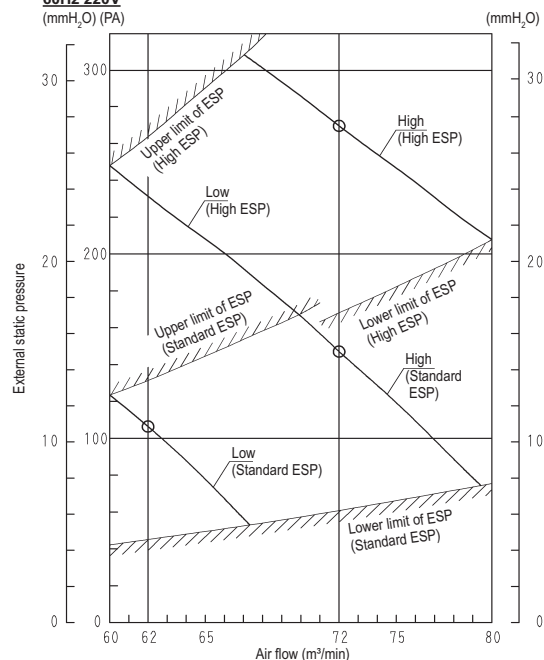
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NOTES

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

60Hz 220V
(mmH₂O) (PA)



3D035173A

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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