



Air Conditioning Technical Data

Concealed ceiling unit with high ESP



EEDEN15-204

FXMQ-MA9

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FXMQ-MA9

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1 Features

ESP up to 270, ideal for extra large sized spaces

- High external static pressure up to 270Pa facilitates using flexible ducts of varying lengths
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Large capacity unit: up to 31.5 kW heating capacity

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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				FXMQ200MA9	FXMQ250MA9	
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	
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	High	m ³ /min	58	72
			Low	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		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		Braze 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		
Control systems	Infrared remote control			BRC4C65		
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)		
	Wired remote control			BRC1E52A/B / BRC1D52		

Standard Accessories : Screws;

Standard Accessories : Connection pipes;

Standard Accessories : Installation and operation manual;

Standard Accessories : Clamps;

Standard Accessories : Sealing pads;

2 Specifications

2

2-2 Electrical Specifications				FXMQ200MA9	FXMQ250MA9
Power supply	Name			VE	
	Phase			1~	
	Frequency	Hz		50/60	
	Voltage	V		220-240/220	
Voltage range	Min.	%		-10	
	Max.	%		10	
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)

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

The external static pressure is changeable: change the connectors inside the electrical box, this pressure means: High static pressure - Standard

The air filter is not a standard accessory, but please mount it in the duct system of the suction side. Select its colorimetric method (gravity method) 50% or more.

Sound pressure levels are measured at 220V.

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-MA9

Units					Power supply		IFM		Input (W)	
Model	Type	Hz	Volts	Voltage range	MCA	MFA	kW	RLA	Cooling	Heating
FXMQ200MA9	VE	50	220-240V	Max. 264V Min. 198V	8.1	15	0.380 x 2	6.5	1294	1294
FXMQ250MA9					9.0	15	0.380 x 2	7.2	1465	1465
FXMQ200MA9	VE	60	220	Max. 242V Min. 198V	9.0	15	0.380 x 2	7.2	1490	1490
FXMQ250MA9					10.1	15	0.380 x 2	8.1	1684	1684

NOTES

- Voltage range
Units are suitable for use on electrical systems where the voltage supplied to the unit terminals is not below or above listed range limits.
- Maximum allowable voltage unbalance between phases is 2%.
- MCA/MFA
MCA=1.25xFLA
MFA≤4xFLA
(next lower standard fuse rating, min.15A)
- Select wire size based on the MCA.
- 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

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FXMQ-MA9		200	250
Safety devices			
PC board fuse		250V 10A	250V 10A
Fan motor thermal fuse	°C	-	-
Fan motor thermal protector	°C	OFF: 135 ±8 (ON: 87 ±15)	OFF: 135 ±8 (ON: 87 ±15)

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5 Options

5 - 1 Options

FXMQ-MA9

No.	Item	Type		FXMQ-MA9
		Infrared	H/P C/O	
1	Remote control	Infrared	H/P	BRC4C62
		Wired	C/O	BRC4C64
				BRC1C62 • BRC1D61 • BRC1E61
2	Simplified remote control			BRC2C51
3	Remote control for hotel use			BRC3A61
4	Adapter for wiring			KPR1B61
5-1	Wiring adapter for electrical appendices (1)			KRP2A61
5-1	Wiring adapter for electrical appendices (2)			KRP4AA61
6	Remote sensor			KRCS01-1B
7	Installation box for adapter PCB.			-
8	Central remote control			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	External control adapter for outdoor unit (must be installed on indoor units)			DTA104A61
12	Simplified remote control (with operation mode selector button) Note 7			-
13	Simplified remote control (without operation mode selector button) Note 7			-
14	Digital input adapter Note 8			-

NOTES

1. Installation box (No. 7) is necessary for each adapter marked *.
2. Up to 2 adapters 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 adapter.
6. Installation box (No. 7) is necessary for each adapter.
7. Included languages are:
Language pack 1: english, german, french, dutch, spanish, italian and portuguese.
With PC cable EKPCAB3 in combination with the updater PC software, you can additionally change the language to:
Language pack 2: english, bulgarian, croatian, czech, hungarian, romanian and slovenian.
Language pack 3: english, greek, polish, russian, serbian, slovak and turkish.
8. Only possible in combination with simplified remote control BRC2/3E52C7.

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Item	Model	Duct Type	
		FXMQ200MA9	FXMQ250MA9
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

1. See the latest for the modification marks.

6 Capacity tables

6 - 1 Cooling Capacity Tables

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FXMQ-MA9

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	TC	SHC
200	22.4	35.0	15.1	13.4	18.0	14.9	21.0	16.3	22.4	16.8	23.6	17.0	24.2	16.1	24.6	15.4
250	28.0	35.0	18.9	16.9	22.5	18.5	26.2	20.4	28.0	20.9	29.5	21.1	30.2	20.2	30.8	19.4

6 Capacity tables

6 - 2 Heating Capacity Tables

FXMQ-MA9

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	7.0	6.0	26.2	26.2	25.0	24.2	23.4	21.8
250	31.5	7.0	6.0	33.1	33.0	31.5	30.5	29.5	27.5

6 Capacity tables

6 - 3 Capacity Correction Factor

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FXMQ-MA9

		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
FXMQ200MA9	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
FXMQ250MA9	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

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 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_i entspricht dem GL-Verhältnisswert 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-Verhältnisswert 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/°CUBU
- 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/°CUBU

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 ontwerp-temperatuur 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

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6 Capacity tables

6 - 3 Capacity Correction Factor

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		Capacity correction factor Te = 11°C						
		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
FXMQ200MA9	TC	0.544	0.563	0.593	0.634	0.338	0.722	0.759
	SHF	1.136	1.226	1.253	1.195	1.155	1.114	1.097
FXMQ250MA9	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

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 kullanılır? :

1. 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 SHF.

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. ошутимого 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.

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

Fühlbare 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.

ошутимого 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.

3. 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"

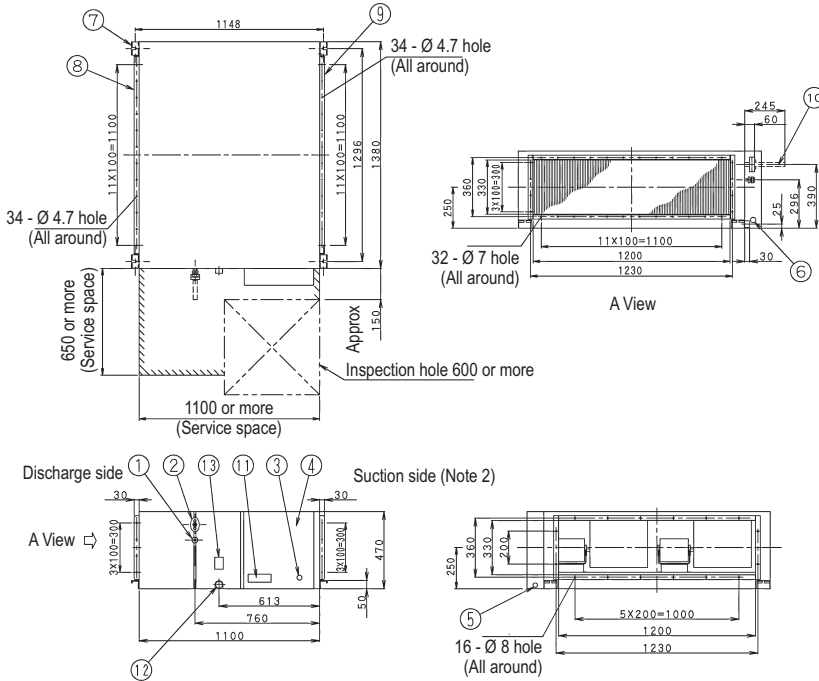
SHF değeri 1'den büyükse, SHF değeri "1" kabul edilmelidir

7 Dimensional drawings

7 - 1 Dimensional Drawings

7

FXMQ-MA9



Piping size (field supply)

Indoor unit	Gas side	Liquid side
FXMQ200MA9	Ø 19.1 attached piping	Ø 9.5
FXMQ250MA9	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. Ø33.349 Minor dia. Ø30.391
13	Water supply port	

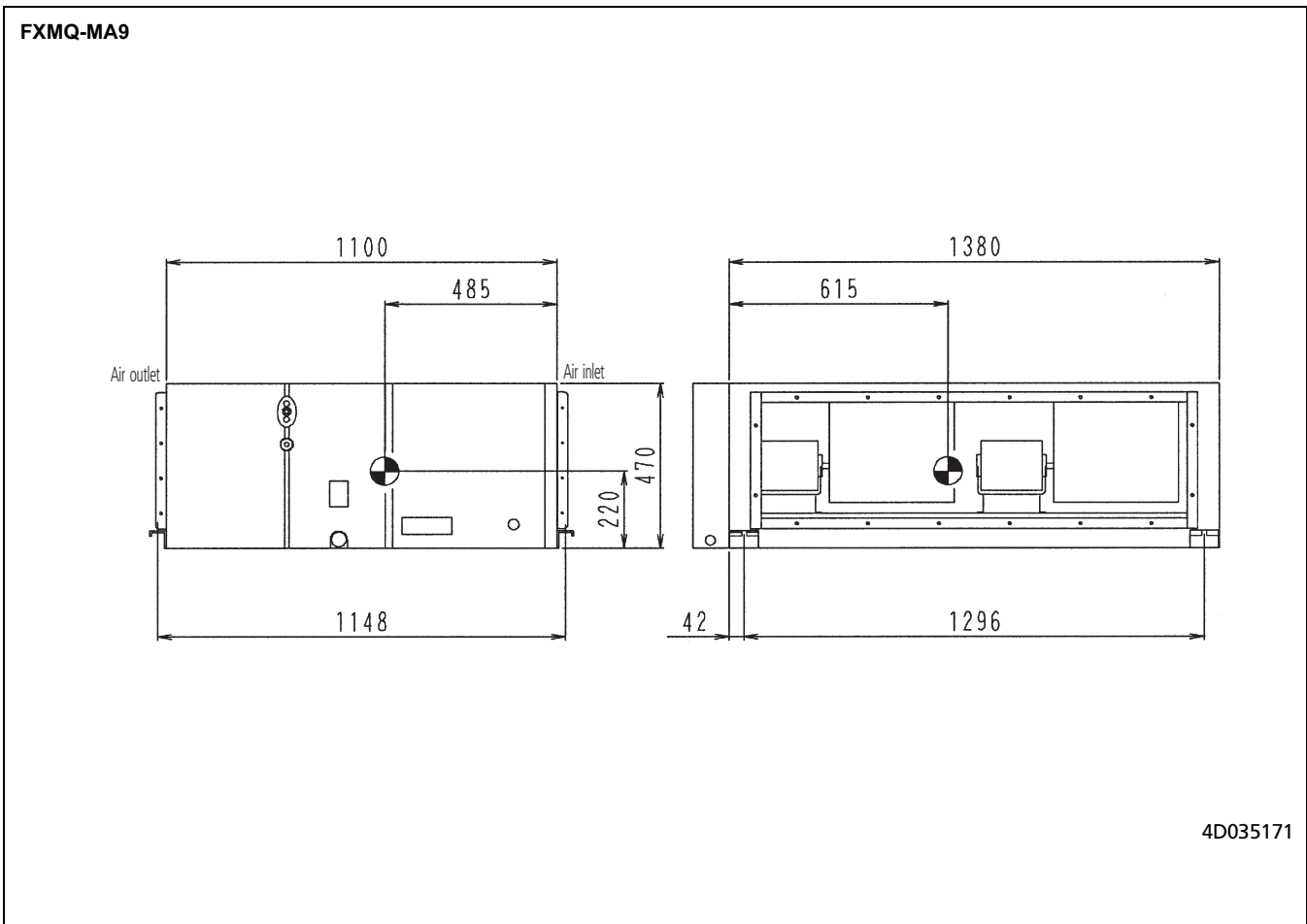
NOTES

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

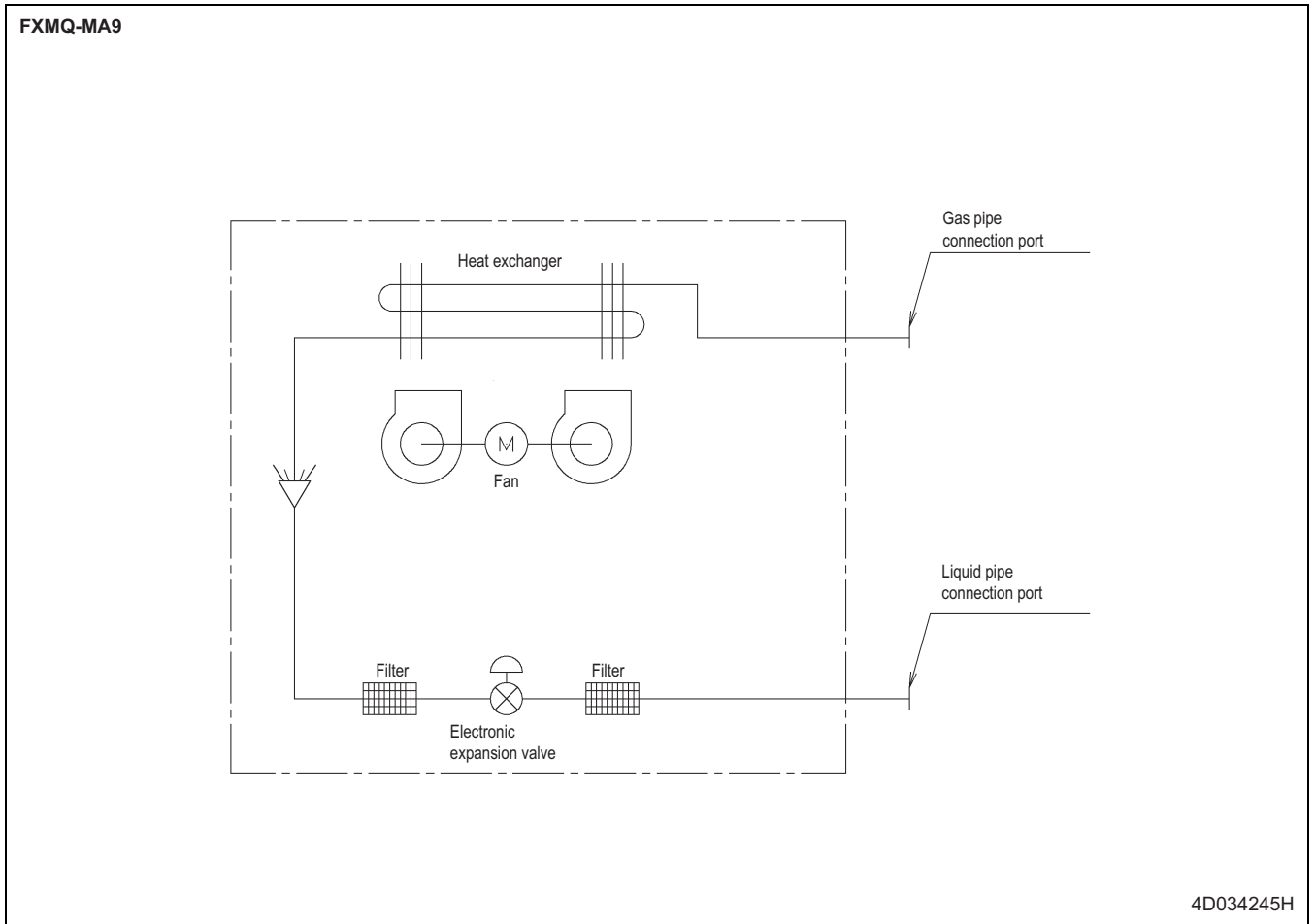
8 - 1 Centre of Gravity



9 Piping diagrams

9 - 1 Piping Diagrams

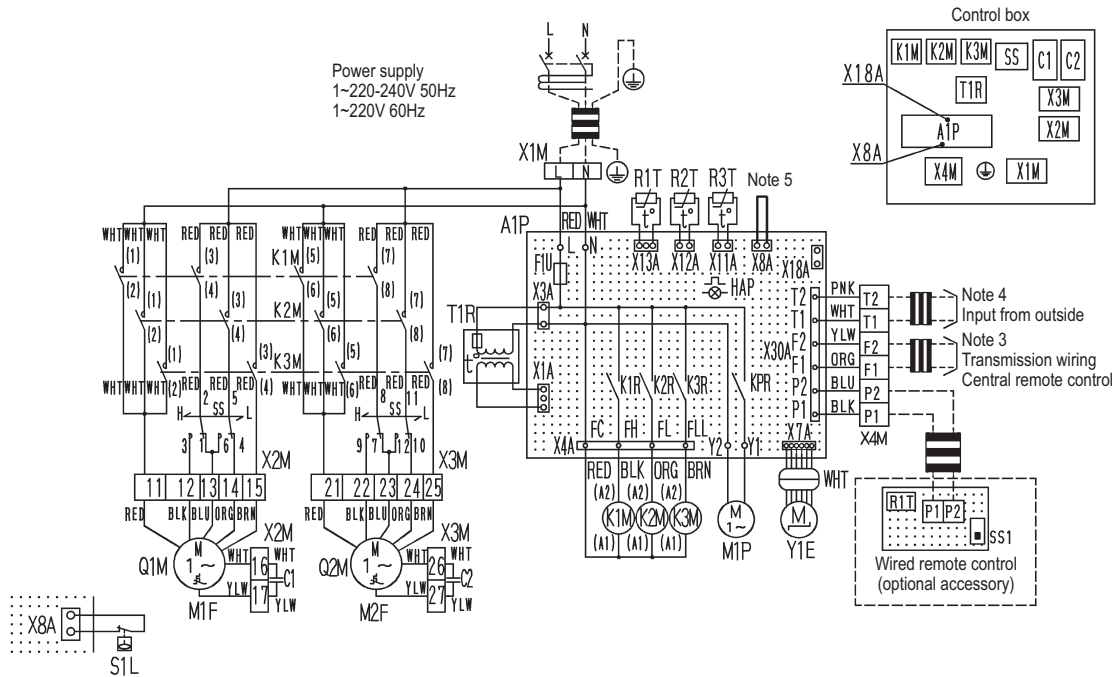
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10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXMQ-MA9



Indoor unit		Optional parts	
A1P	Printed circuit board	M1P	Motor (drain pump)
C1 • C2	Capacitor (M1F • 2F)	Wired remote control	
F1U	Fuse (F, 5A, 250V)	R1T	Thermistor (air)
HAP	Light emitting diode (service monitor-green)	SS1	Selector switch (main/sub)
K1M	Magnetic contactor (M1F • 2F)	Connector for optional parts	
K2M	Magnetic contactor (M1F • 2F)	X8A	Connector (float switch)
K3M	Magnetic contactor (M1F • 2F)	X18A	Connector (wiring adapter for electrical appendices)
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/22V)		
X1M	Terminal block (power)		
X1M - X3M	Terminal block		
X4M	Terminal block (control)		
Y1E	Electronic expansion valve		

NOTES

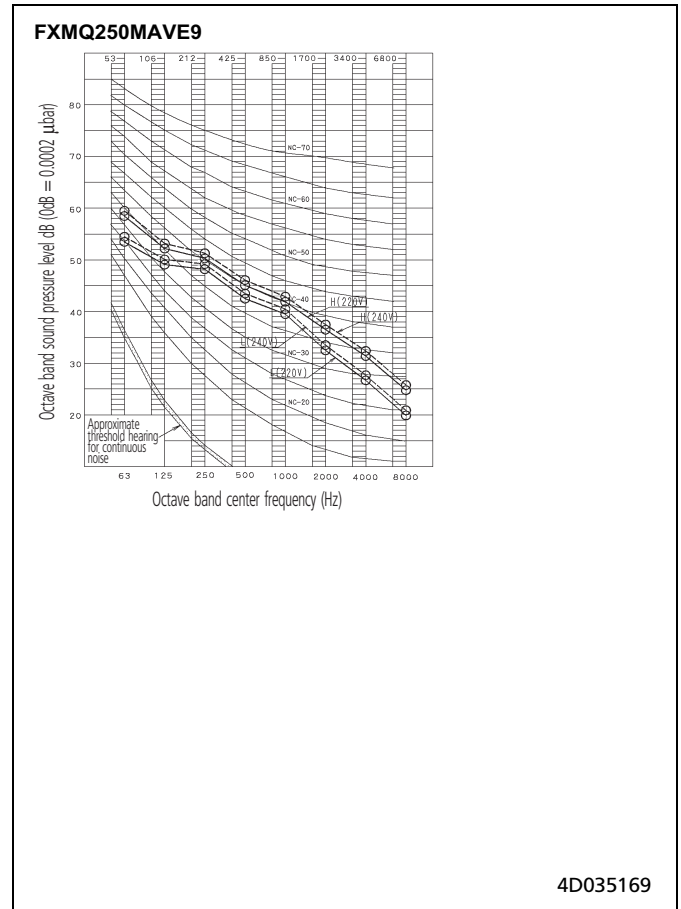
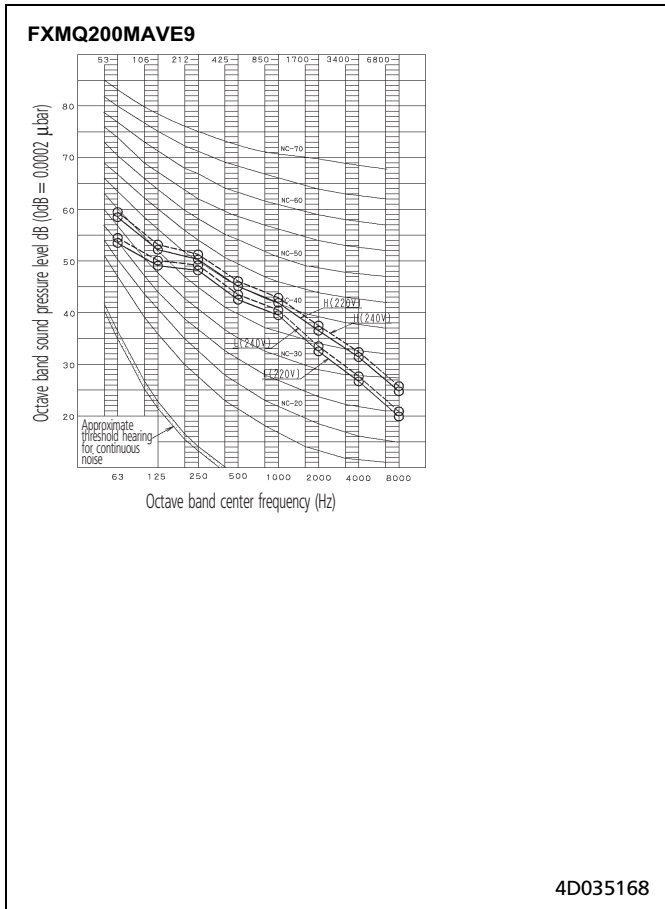
- □ □ □ : terminal block
 - □ D- : connector
 - □ □ : short circuit connector
 - : terminal
- : field wiring
- In case using central remote control, connect it to the unit in accordance with the attached instruction manual.
- When connecting the input wires from outside, forced OFF or ON/OFF control 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.
- Symbols shown as follows: PNK: pink, WHT: white, YLW: yellow, ORG: orange, BLU: blue, BLK: black, RED: red, BRN: brown)
- Use copper conductors only.
- In case high E.S.P. operation, change the switch (SS) for 'H'.

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11 Sound data

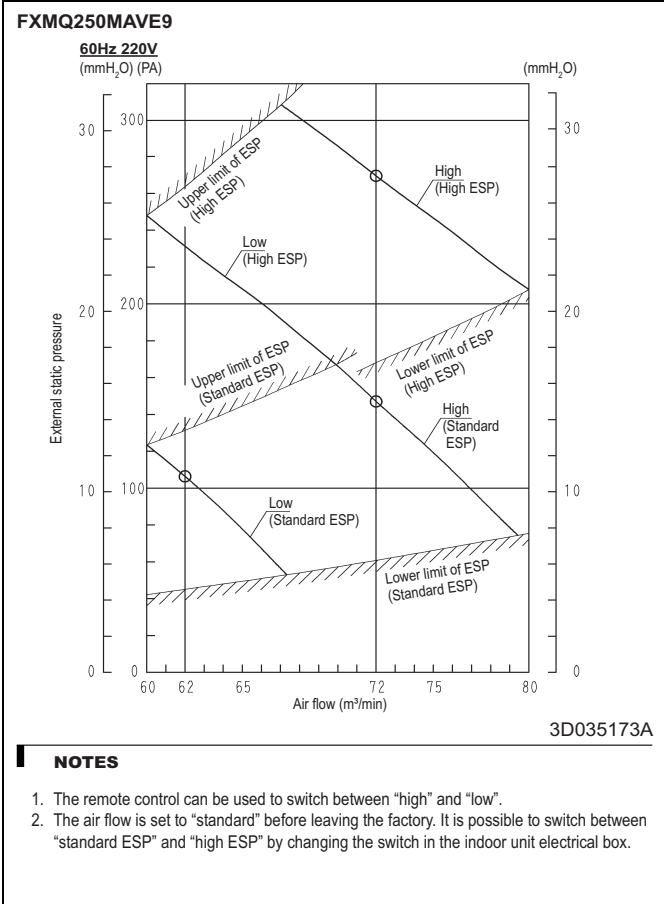
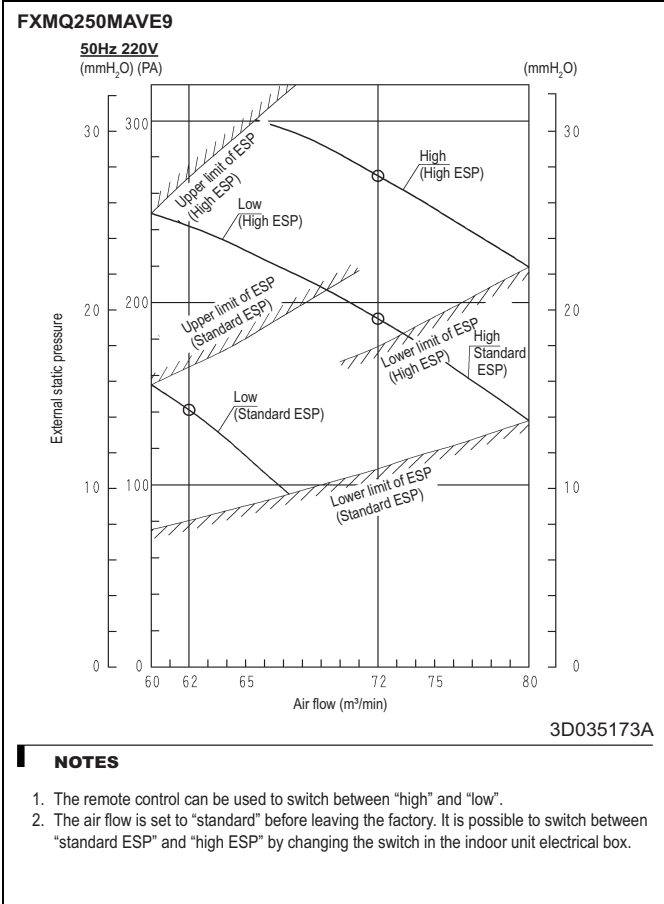
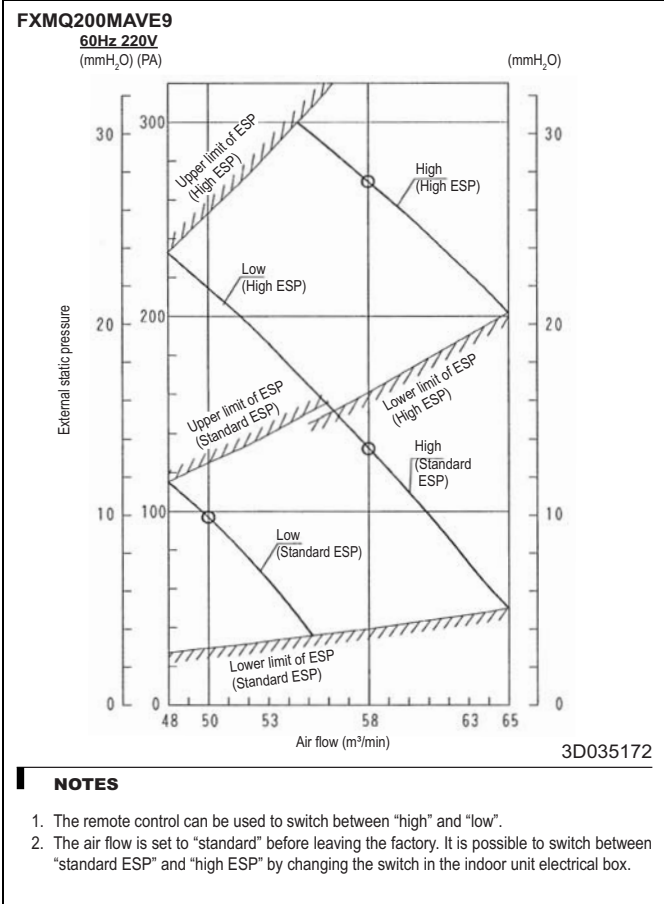
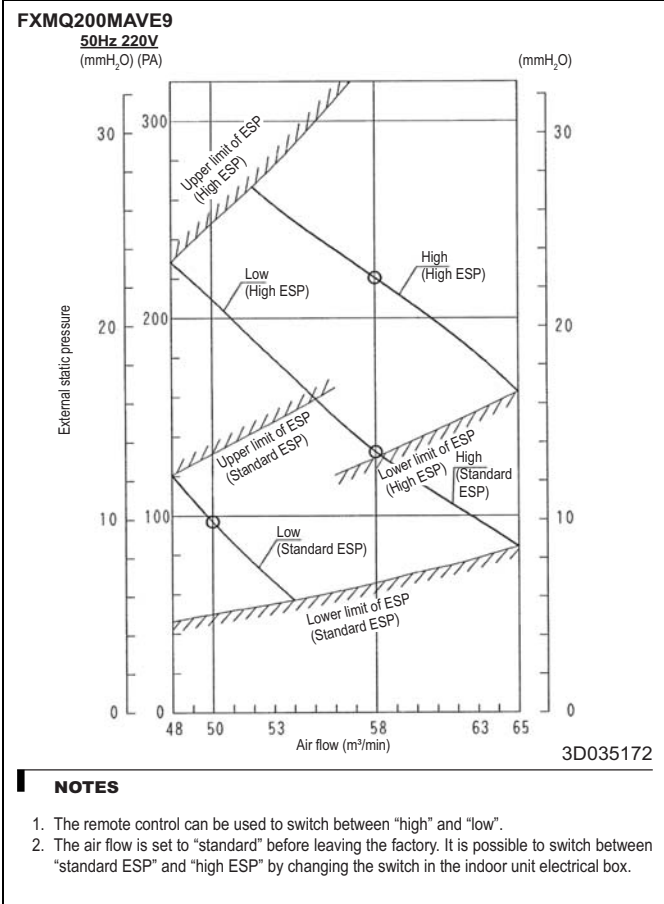
11 - 1 Sound Pressure Spectrum

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12 Fan characteristics

12 - 1 Fan Characteristics





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