



Air Conditioning

Technical Data

Small concealed ceiling unit



EEEN13-204

FXDQ-M9

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FXDQ-M9

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1 Features

- Designed for hotel bedrooms
- Compact dimensions (230mm high & 652mm deep), can easily be mounted in a ceiling void
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- The air suction direction can be altered from rear to bottom suction
- For easy mounting, the drain pan can be located to the left or right of the unit

1



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



Multi tenant

2 Specifications

2-1 Technical Specifications					FXDQ20M9		FXDQ25M9	
Cooling capacity	Nom.			kW	2.2 (1)		2.8 (1)	
Heating capacity	Nom.			kW	2.5 (2)		3.2 (2)	
Power input - 50Hz	Cooling	Nom.	kW		0.050 (1)			
	Heating	Nom.	kW		0.050 (2)			
Casing	Colour				Unpainted			
	Material				Galvanised steel			
Dimensions	Unit	Height	mm		230			
		Width	mm		502			
		Depth	mm		652			
	Packed unit	Height	mm		301			
		Width	mm		584			
		Depth	mm		753			
Required ceiling void \>			mm	250				
Weight	Unit			kg	17			
	Packed unit			kg	18			
Heat exchanger	Length			mm	430			
	Rows	Quantity			2			
	Fin pitch			mm	1.4			
	Passes	Quantity			2			
	Face area			m²	0.108			
	Stages	Quantity			12			
	Empty tubeplate hole	Quantity			4		0	
	Tube type			ø7 HI-XSS				
	Fin	Type			Symmetric waffle louvre			
Treatment			Hydrophilic					
Fan	Type				Sirocco fan			
	Quantity				1			
	Air flowrate - 50Hz	Cooling	High	m³/min	6.7		7.4	
			Low	m³/min	5.2		5.8	
		Heating	High	m³/min	6.7		7.4	
			Low	m³/min	5.2		5.8	
Fan motor	Quantity				1			
	Model				Step motor			
	Speed	Steps			3			
	Output	High	W		10			
	Drive				Direct drive			
Sound power level	Cooling	Nom.	dBA		50			
Sound pressure level	Cooling	High	dBA		37			
		Low	dBA		32			
	Heating	High	dBA		37			
		Low	dBA		32			
Refrigerant	Type				R-410A			
	Control				Electronic expansion valve			
Piping connections	Liquid	Type			Flare connection			
		OD	mm		6.35			
	Gas	Type			Flare connection			
		OD	mm		12.7			
	Drain				I.D. 21.6, O.D. 27.2			
Temperature control					Microprocessor thermostat for cooling and heating			
Air direction control					Up and downwards			
Air filter	Type				Resin net with mold resistance			
Safety devices	Item	01			PC board fuse			
		02			Fan motor thermal protection			

2 Specifications

2-2 Electrical Specifications				FXDQ20M9	FXDQ25M9
Power supply	Name			V1	
	Phase			1~	
	Frequency	Hz		50	
	Voltage	V		230	
Voltage range	Min.	%		-10	
	Max.	%		10	
Current - 50Hz	Zmax	List		No requirements	
	Minimum circuit amps (MCA)		A	0.2	
	Maximum fuse amps (MFA)		A	16	
	Full load amps (FLA)	Total	A	0.1	

Notes

- (1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 8m; level difference: 0m
- (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 8m; level difference: 0m
- (3) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- (4) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- (5) Maximum allowable voltage range variation between phases is 2%.
- (6) MCA/MFA: $MCA = 1.25 \times FLA$
- (7) $MFA \leq 4 \times FLA$
- (8) Next lower standard fuse rating minimum 16A
- (9) Select wire size based on the value of MCA
- (10) Instead of a fuse, use a circuit breaker

3 Electrical data

3 - 1 Electrical Data

FXDQ-M9

Units						Power supply		IFM	
Model	Type	Hz	Volts	Min.	Max.	MCA	MFA	kW	FLA
FXDQ20M9	V1	50	230	207	253	0.2	16	0.01	0.1
FXDQ25M9									

SYMBOLS

MCA	: Min. Circuit Amps. (A)
MFA	: Max. Fuse Amps. (A)
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
 $MCA=1.25 \times FLA$
 $MFA \leq 4 \times FLA$
(next lower standard fuse rating min. 16A)
- 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

4

		FXDQ20M9	FXDQ25M9
FAN MOTOR THERMAL PROTECTOR	°C	OFF:135 $\pm$ 8, (ON:87 $\pm$ 15)	
PC BOARD FUSE		250V 10A	

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5 Options

5 - 1 Options

FXDQ20-25M9

Options

Nr.	Item
1	Wiring adapter (Hour meter)

Type	FXDQ20,25
	EKRP1B2 *1

Operation Control

Nr.	Item
1	Remote
	Wired type
	Wireless type
	H/P
	C/O
2	Simplified remote control
3	Remote control for hotel use
4	Adapter for wiring
5.1	Wiring adapter for electrical appendices (1)
5.2	Wiring adapter for electrical appendices (2)
6	Remote sensor
7	Installation box for adapter PCB
8	Central remote control
8.1	Electrical box with earth terminal (3 blocks)
9	Unified ON/OFF controller
9.1	Electrical box with earth terminal (2 blocks)
9.2	Noise filter (For electromagnetic interface use only)
10	Schedule timer
11	External adapter for outdoor unit (installation on indoor unit)
11	Multi Tenant option

Type	FXDQ20,25
	BRC1D52 / BRC1E51A *4
	BRC4C62
	BRC4C64
	BRC2A51
	BRC3A61
	KRP1B61
	KRP2A51
	KRP4A51
	KRCS01-1

	DCS302C51
	KJB311A
	DCS301B51
	KJB212A
	KEK26-1A
	DST301B51
	DTA104A61
	EKMTAC *3

*1 Fixing box is KRP1A90

*2 All options are supplied as kit.

*3 This kit contains parts to connect with 10 multi tenant indoor units.

*4 Included languages are: English, German, French, Dutch, Spanish, Italian, Greek, Portuguese, Russian and Turkish.

Contents of accessory bags

Description	Quantity
Installation and operation manual	1
Glass tube fuse 10A	1
Service instruction label	1

3TW31579-1A

6 Capacity tables

6 - 1 Cooling Capacity Tables

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Cooling Capacity

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

Unit size	Indoor air temp.													
	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	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.8	2.4	1.7
25	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.2	3.0	2.1	3.1	2.0

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NOTES - OPMERKINGEN - REMARQUES - ANMERKUNGEN - NOTAS - NOTE - ΣΗΜΕΙΩΣΕΙΣ - NOTLAR - ПРИМЕЧАНИЯ

- This table is for the selection of indoor equipment.
 - Deze tabel is bedoeld voor het kiezen van de binnenunit.
 - Ce tableau concerne la sélection de l'équipement intérieur.
 - Diese Tabelle ist für die Auswahl der Innenanlagen.
 - Esta tabla es para seleccionar el equipo interior.
 - Usare questa tabella per la selezione delle apparecchiature interne.
 - Αυτός ο πίνακας προορίζεται για την επιλογή εσωτερικού εξοπλισμού.
 - Bu tablo iç ünite ekipmanlarının seçimine yöneliktir.
 - Эта таблица предназначена для выбора устанавливаемого в помещении оборудования.
- In the event that conditions differ due to the design requirements after system selection, actual operating ability of the indoor equipment will differ from that noted in the table because of changes in the outdoor air temperature and load factor.
 - Als nadat u het systeem hebt gekozen de voorwaarden afwijken van de ontwerpvereisten, dan zal het reële bedrijfsvermogen van de binnenunit afwijken van de in de tabel vermelde gegevens, wegens de afwijkende buitenluchttemperatuur en de belastingsfactor.
 - Si les exigences de conception après la sélection du système entraînent une modification des conditions, les capacités opérationnelles réelles de l'équipement intérieur diffèrent de celles indiquées dans le tableau en raison de la modification de la température de l'air extérieure et du facteur de charge.
 - Falls Bedingungen aufgrund der Konstruktionsanforderungen nach der Systemauswahl abweichen, dann weicht aufgrund der Änderungen der Außenlufttemperatur und des Lastfaktors die tatsächliche Betriebsfähigkeit der Innenanlage von der in der Tabelle aufgeführten ab.
 - En caso de que las condiciones difieran debido a los requisitos de diseño tras seleccionar el sistema, la capacidad de funcionamiento real del equipo interior diferirá de la que se muestra en la tabla debido a los cambios de la temperatura de aire exterior y al factor de carga.
 - Nel caso in cui intervenissero dei cambiamenti nelle condizioni dovuti a requisiti di progettazione successivi alla selezione del sistema, la capacità operativa effettiva delle apparecchiature interne sarà diversa da quella indicata in tabella a causa della diversa temperatura dell'aria esterna e del fattore di carico.
 - Στην περίπτωση που οι συνθήκες διαφέρουν λόγω των απαιτήσεων σχεδιασμού μετά την επιλογή συστήματος, η πραγματική δυνατότητα του εσωτερικού εξοπλισμού θα διαφέρει από την αναφερόμενη στον πίνακα, λόγω των αλλαγών στην εξωτερική θερμοκρασία αέρα και στο συντελεστή φορτίου.
 - Sistem seçiminin sonra tasarım gerekleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipman gerçek çalışma kapasitesi tablodaki belirtilenden farklı olacaktır.
 - В случае, если реальные условия отличаются от проектных условий работы, используемых при выборе системы, фактические характеристики устанавливаемого в помещении оборудования будут отличаться от указанных в таблице вследствие изменения температуры воздуха снаружи и показателя нагрузки.
- In this case, use the ability table for the indoor equipment selected and correct for the ratio of change in ability.
 - Gebruik in dat geval de vermogenstabel van de gekozen binneninstallatie en kies het juiste vermogen.
 - Le cas échéant, utiliser le tableau de capacité de l'équipement intérieur sélectionner et corriger le rapport de modification de capacité.
 - Verwenden Sie in diesem Fall die Fähigkeit für die ausgewählte Innenanlage und korrigieren Sie das Verhältnis der Änderung in der Fähigkeit.
 - En este caso, utilice la tabla de capacidades del equipo interior seleccionado y corrija la relación de cambio en capacidad.
 - In questo caso, usare la tabella delle capacità per le apparecchiature interne selezionate ed apportare le modifiche del caso in base alla percentuale di cambiamento di capacità.
 - Σε αυτή την περίπτωση χρησιμοποιήστε τον πίνακα δυνατοτήτων για τον επιλεγμένο εσωτερικό εξοπλισμό και διορθώστε για την αναλογία αλλαγής στη δυνατότητα.
 - Bu durumda, seçilen iç ekipman için kapasite tablosunu kullanın ve kapasitedeki değişim oranına göre düzeltme yapın.
 - В этом случае используйте таблицу характеристик выбранного устанавливаемого в помещении оборудования и внесите необходимую поправку на их изменение.

6 Capacity tables

6 - 2 Heating Capacity Tables

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Heating Capacity

Unit size	Indoor air temp. °CDB					
	16.0	18.0	20.0	21.0	22.0	24.0
	kW	kW	kW	kW	kW	kW
20	2.6	2.6	2.5	2.4	2.3	2.2
25	3.4	3.4	3.2	3.1	3.0	2.8

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 - Sistem seçiminin sonra tasarım gerekleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipmanın gerçek çalışma kapasitesi tabloda belirtilenden farklı olacaktır.
 - В случае, если реальные условия отличаются от проектных условий работы, используемых при выборе системы, фактические характеристики устанавливаемого в помещении оборудования будут отличаться от указанных в таблице вследствие изменения температуры воздуха снаружи и показателя нагрузки.
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 - Bu durumda, seçilen iç ekipman için kapasite tablosunu kullanın ve kapasitedeki değişim oranına göre düzeltilme yapın.
 - В этом случае используйте таблицу характеристик выбранного устанавливаемого в помещении оборудования и внесите необходимую поправку на их изменение.

6 Capacity tables

6 - 3 Capacity Correction Factor

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		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
FXDQ20M9	TC	0.682	0.696	0.757	0.783	0.807	0.833	0.856
	SHF	1.131	1.174	1.116	1.092	1.072	1.054	1.050
FXDQ25M9	TC	0.684	0.706	0.775	0.797	0.813	0.838	0.861
	SHF	1.133	1.164	1.105	1.085	1.071	1.053	1.048

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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 kullanılır?:

- 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. ощутимого 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 .

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.

Gevoeligheidsfactor (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

6 Capacity tables

6 - 3 Capacity Correction Factor

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		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
FXDQ20M9	TC	0.547	0.564	0.585	0.626	0.663	0.719	0.754
	SHF	1.131	1.224	1.270	1.209	1.163	1.108	1.092
FXDQ25M9	TC	0.546	0.570	0.605	0.647	0.681	0.725	0.761
	SHF	1.133	1.221	1.249	1.192	1.153	1.109	1.089

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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. окуптумного 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.

Gevoeligheidsapaciteit (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.

окуптумного 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.

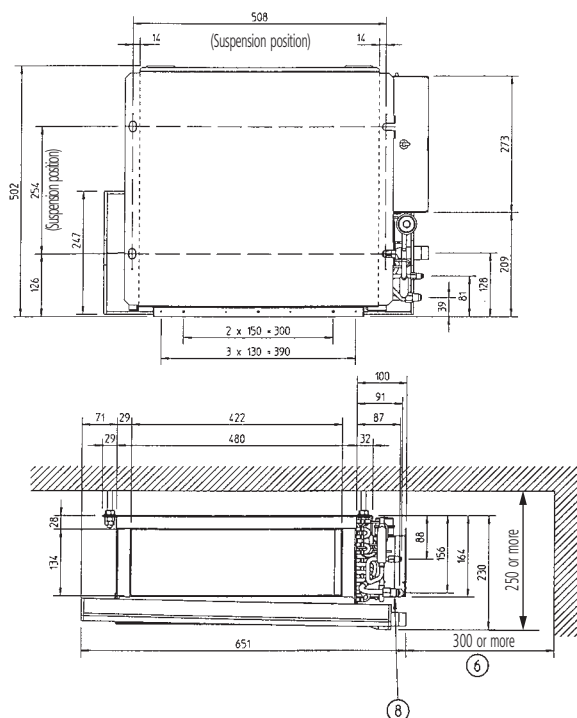
Если SHF больше 1, то SHF равен "1"

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

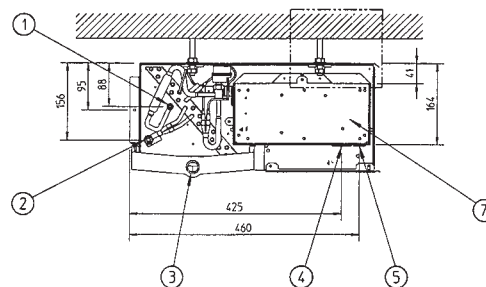
7 Dimensional drawings

7 - 1 Dimensional Drawings

FXDQ-M9



Nr	Part name
1	Liquid pipe connection (ø 6.35)
2	Gas pipe connection (ø 12.7)
3	Drain hole (o.d. ø 27.2 - i.d. ø 21.6)
4	Transmission wiring port
5	Power supply wiring port
6	Service space
7	Switch box
8	Nameplate

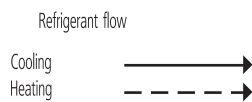
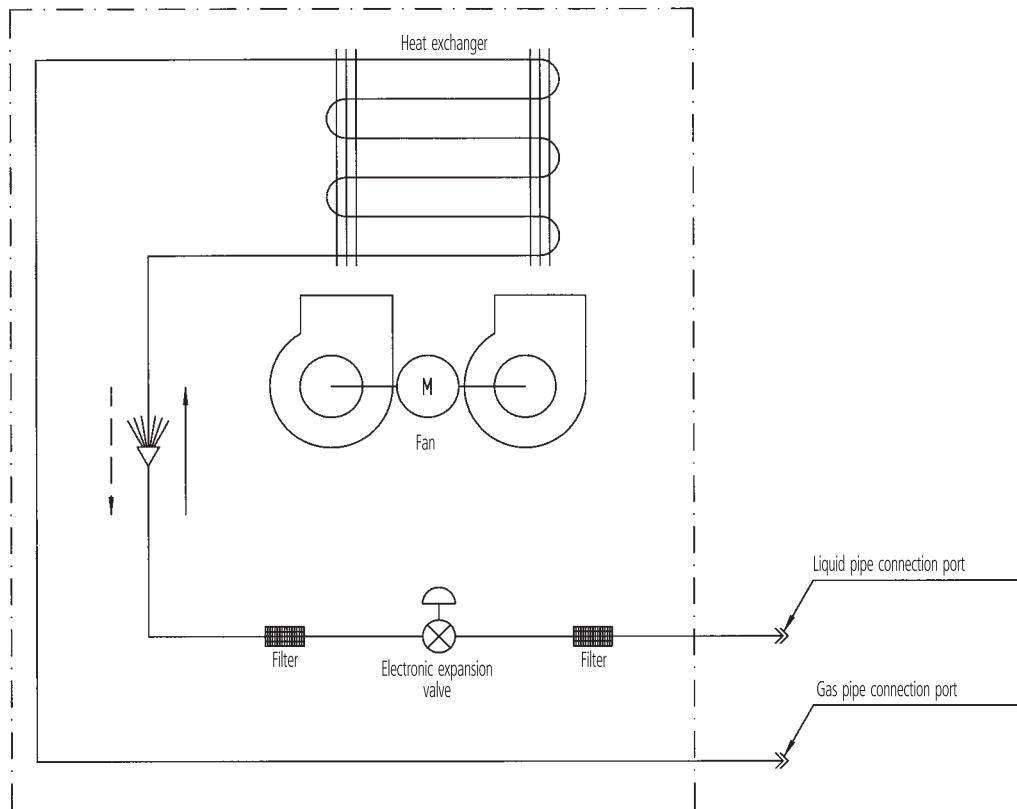


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8 Piping diagrams

8 - 1 Piping Diagrams

FXDQ-M9



Piping connection diameter

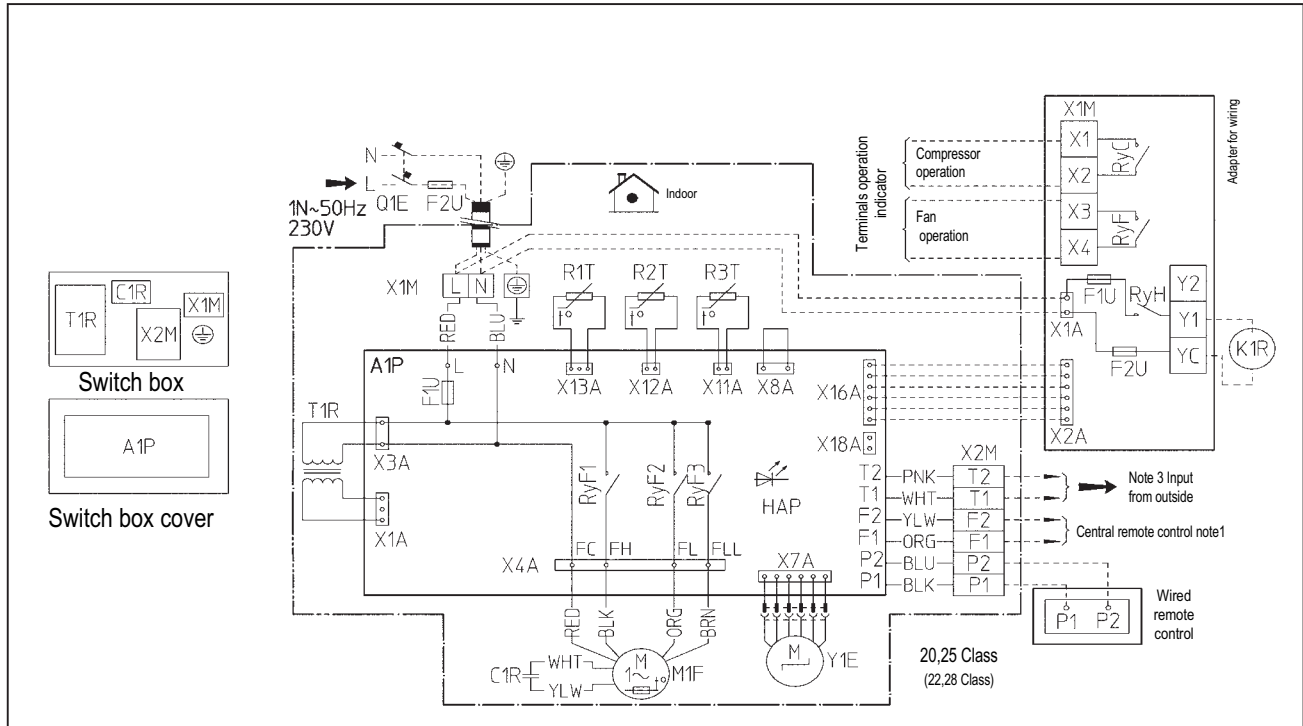
Model	Gas	Liquid
FXDQ20,25M9	ø12.7	ø6.4

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9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXDQ-M9



A1P	Printed circuit board	RyF1-3	Magnetic relay (Fan)	Adapter for wiring	
C1R	Capacitor (Fan)	T1R	Transformer (220-240V/22V)	Ryc, Ryf	Magnetic relay
F1U	Fuse (250V, 10A)	X1M	Terminal strip (power)	Ryh	Magnetic relay (J1EH)
F2U	Field fuse	X2M	Terminal strip (control)	F1U, F2U	Fuse (250V, 5A)
HAP	Light emitting diode (Service monitor-green)	Y1E	Electric expansion valve	X1A, X2A	Connector (wiring adapter)
M1F	Motor (fan)	Optional parts		X1M	Terminal strip
Q1E	Earth leak detector	J1EH	Electric heater	Connector for optional parts	
R1T	Thermistor (air)	K1R	Magnetic relay (J1EH)	X16A	Connector (wiring adapter)
R2T, R3T	Thermistor (refrigerant)			X18A	Connector (wiring adapter for electrical appendices)

: Connector
 : Protective earth (screw)
 : Wire clamp
 : Field wiring

L : Live
 N : Neutral

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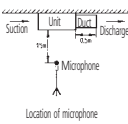
NOTES

- 1 Use copper conductors only.
- 2 When using the central remote control, see manual for connection to the unit.
- 3 When installing the electric heating change the wiring for the heater circuit. The main power supply has to be supplied independently.
- 4 When connecting the input wires from outside, 'forced off' or 'on/off' operation can be selected by the remote control. See installation manual for details.

10 Sound data

10 - 1 Sound Level Data

FXDQ-M9

Model	Sound pressure level - 230V			Sound power level
	H	L	Measuring location	
FXDQ20M9	37	32		50
FXDQ25M9	37	32		50

NOTES

- 1 dBA = A-weighted sound pressure level (A-scale according to IEC).
- 2 Reference acoustic pressure 0 dB = 20 Pa.
- 3 These operating values were obtained using a power source of 230V/50Hz.
- 4 These operating values were obtained in a dead room (conversion values). Noise values will vary depending on a range of factors such as the construction of the particular room in which the equipment is installed.
- 5 Operating noise differs with operation and ambient conditions.

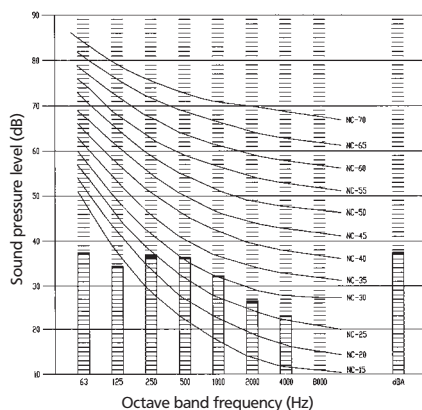
10 Sound data

10 - 2 Sound Pressure Spectrum

10

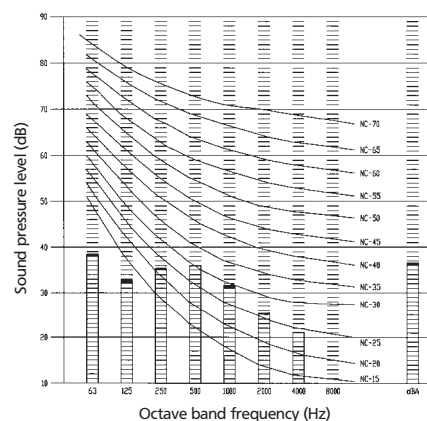
FXDQ20M9

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FXDQ25M9

3TW21477-1





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