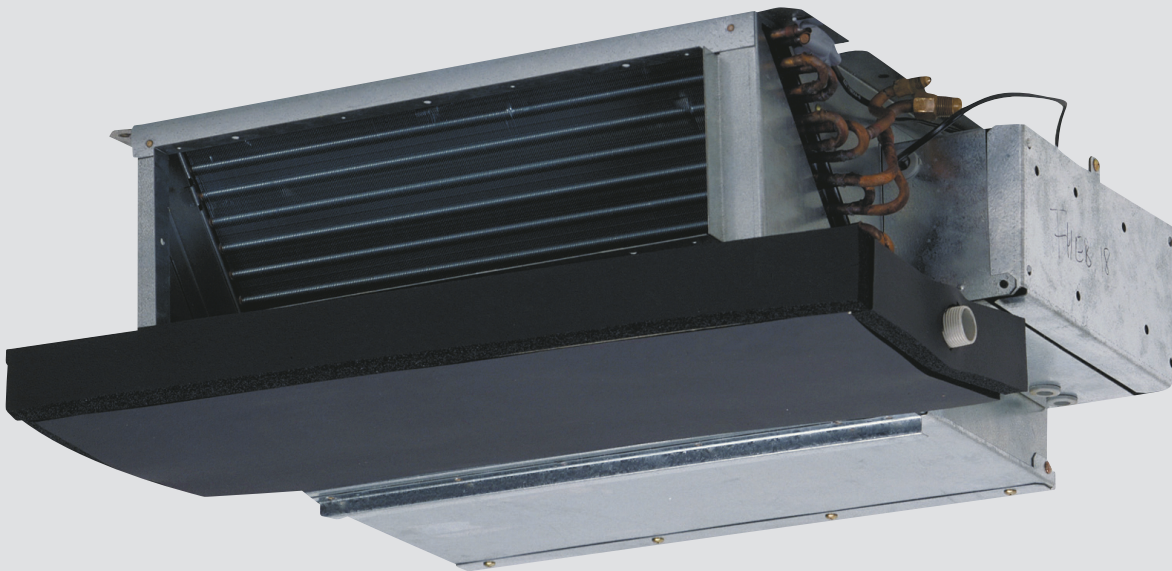


Air Conditioning
Technical Data

FXDQ-M9



- > FXDQ20M9V3B9
- > FXDQ25M9V3B9

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FXDQ-M9

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1 Features

Designed for hotel applications

- Compact unit (230mm high & 652mm deep), can easily be mounted in narrow ceiling voids
- Discretely concealed in the ceiling: only the suction and discharge grilles are visible
- Flexible installation, as 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)				
Required ceiling void >			mm	250				
Dimensions	Unit	Height	mm	230				
		Width	mm	502				
		Depth	mm	652				
	Packed unit	Height	mm	301				
		Width	mm	584				
		Depth	mm	753				
Weight	Unit		kg	17				
	Packed unit		kg	18				
Casing	Colour			Unpainted				
	Material			Galvanised steel				
Heat exchanger	Rows	Quantity		2				
	Fin pitch		mm	1.4				
	Passes	Quantity		2				
	Face area		m ²	0.108				
	Stages	Quantity		12				
	Empty tubeplate hole	Quantity		4	0			
	Tube type			ø7 Hi-XSS				
	Fin	Type			Symmetric waffle louvre			
		Treatment			Hydrophilic			
	Length		mm	430				
	Fan	Type			Sirocco fan			
		Quantity			1			
Air flow rate - 50Hz		Cooling	High	m ³ /min	6.7	7.4		
			Low	m ³ /min	5.2	5.8		
Heating		High	m ³ /min	6.7	7.4			
		Low	m ³ /min	5.2	5.8			
Fan motor	Quantity			1				
	Model			Step motor				
	Speed	Steps		2				
	Output	High	W	10				
	Drive			Direct drive				
Air filter	Type			Resin net with mold resistance				
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					
Safety devices	Item	01	PC board fuse					
		02	Fan motor thermal protection					
Control systems	Infrared remote control			BRC4C62				
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52				
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)				

2 Specifications

2

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

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

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

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: $MCA = 1.25 \times FLA$

$MFA \leq 4 \times FLA$

Next lower standard fuse rating minimum 16A

Select wire size based on the value of MCA

Instead of a fuse, use a circuit breaker

Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

FXDQ-M9

Model	Type	Units				Power supply		IFM	
		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=1.25xFLA
MFA≤4xFLA
(next lower standard fuse rating min. 16A)
- 4 Select wire size based on the MCA.
- 5 Instead of fuse, use circuit breaker.

4TW25771-2

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	

3TW25511-3

5 Options

5 - 1 Options

FXDQ-M9

Options

Nr.	Item	Type
1	Wiring adaptor (hour meter)	

FXDQ20,25
EKR1BZ (*1)

Operation control

Nr.	Item	Type
1	Remote control	Wired
		Wireless
		HP
		CO
2	Simplified remote control (with operation mode selector button)	
3	Simplified remote control (without operation mode selector button)	
4	Adaptor for wiring	
5.1	Wiring adaptor for electrical appendices (1)	
5.2	Wiring adaptor for electrical appendices (2)	
6	Remote sensor	
7	Installation box for adaptor 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 only)	
10	Schedule timer	
11	External adaptor for outdoor unit (installation on indoor unit)	
11	Multi-tenancy option	
12	Digital input adaptor	

FXDQ20,25
BRC1D52
BRC1E53A7 (*4)
BRC1E53B7 (*5)
BRC1E53C7 (*6)(*9)
BRC4C62
BRC4C64
BRC2E52C7 (*7)(*9)
BRC3E52C7 (*7)(*9)
KRP1B61 (*1)
KRP2A51 (*1)
KRP4A51 (*1)
KRC501-1
KRP1B101
DCS30ZC51
KJB311A
DCS301B51
KJB212A
KEK26-1A
DST301B51
DTA104A61 (*1)
EKMTAC (*3)
BRP7A51 (*1)(*8)

(*1) Requires installation box for adaptor PCB

(*2) All options are kits

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

(*4) Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.

(*5) Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.

(*6) Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.

(*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 BRC2/3E52C7 or BRC1E53A/B/C7.

(*9) Language pack 3 of controller BRC1E53C7 is different from that of controller BRC2/3E52C7.

Contents of the accessory bag

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

3TW31579-1C

6 Capacity tables

6 - 1 Cooling Capacity Tables

FXDQ-M9

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

3TW25772-1A

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 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.
- 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

FXDQ-M9

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

3TW25512-2B

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

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 - 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 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.
- 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 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

FXDQ-M9

	Indoor air temperature	Capacity correction factor Te = 9°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
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	1.054	1.048

3D079901A

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_s 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_s 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_s 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 °CDB/°CWB
- La corrección C_s corresponde a Te = 9°C valor de relación TC para cada tipo de unidad interior, en función de la temperatura ambiente interior 29/19 °CDB/°CWB

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 °CDB/°CWB
- La correction C_s correspond à Te = 9 °C / valeur de rapport PT pour chaque type d'unité intérieure, pour une température ambiante intérieure de 29/19 °CDB/°CWB

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 °CDB/°CWB
- La correzione C_s corrisponde a Te = 9°C valore rapporto TC per ogni tipo di unità interna, in base alla temperatura interna di progetto 29/19 °CDB/°CWB

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-binneneenheden + VRV DX-binneneenheden),

- Correctie C_c komt overeen met ratiowaarde Te = 9°C TC voor elk type binneneenheid, afhankelijk van de ontwerptemperatuur van de binneneenheid X/Y °CDB/°CWB
- Correctie C_s komt overeen met ratiowaarde Te = 9°C TC voor elk type binneneenheid, afhankelijk van de omgevingstemperatuur van de binneneenheid 29/19 °CDB/°CWB

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_s 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_s 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

6 Capacity tables

6 - 3 Capacity Correction Factor

FXDQ-M9

		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
FXDQ20M9	TC	0.547	0.584	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. 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 .
Fühlfare 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 .

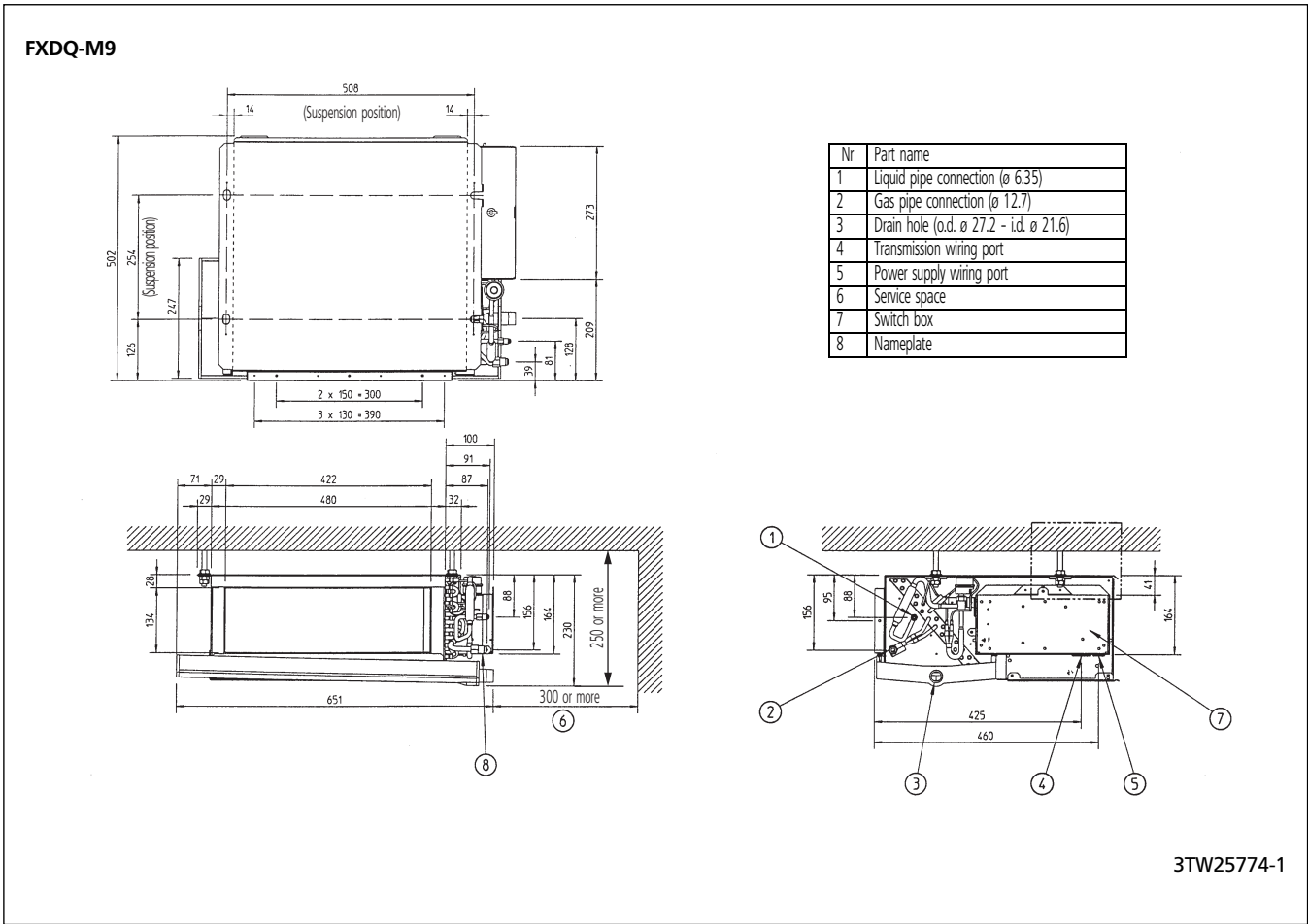
Capacidad sensible (FCS): SHF para el modo de alta sensibilidad = SHF para la tabla de capacidad normal X relación SHF.
 Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.
 Capacità 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.
Оцутимая производительность (SHF): SHF для режима с высоким коэфф. оцутимого 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

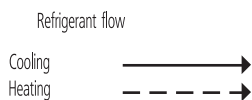
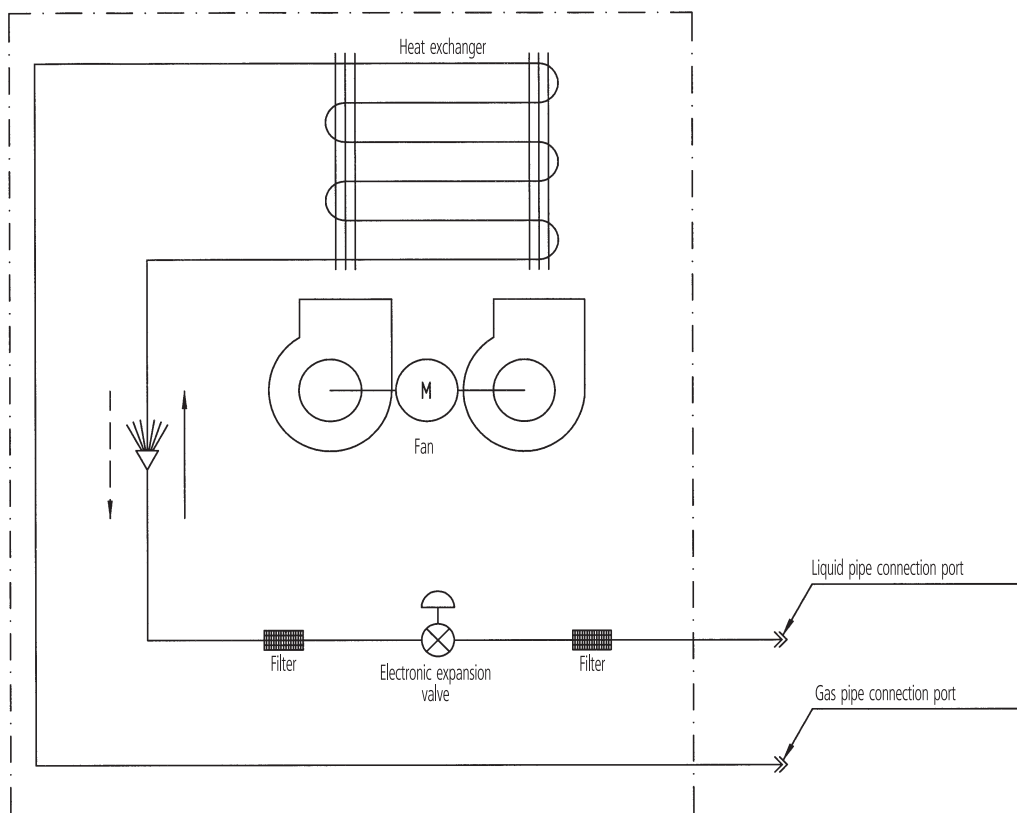
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8 Piping diagrams

8 - 1 Piping Diagrams

FXDQ-M9



Piping connection diameter

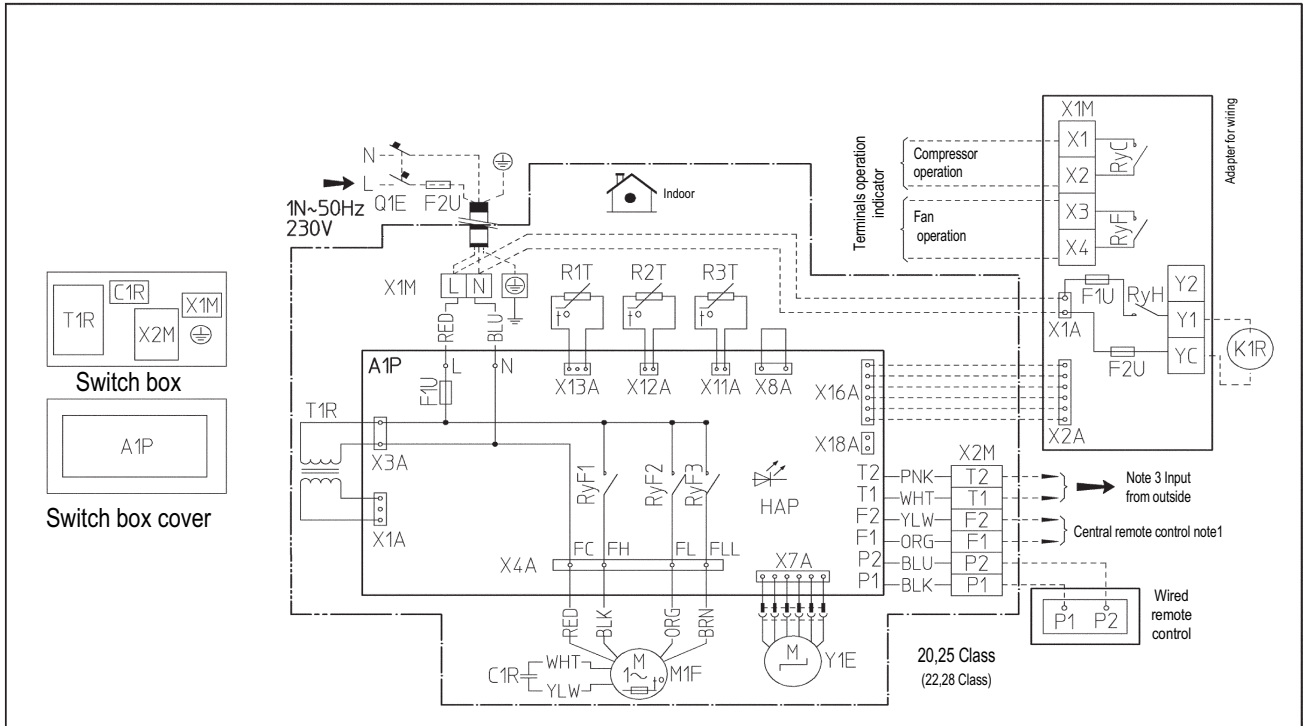
Model	Gas	Liquid
FXDQ20,25M9	ø12,7	ø6,4

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

9

FXDQ-M9



A1P	Printed circuit board	RyF1-3	Magnetic relay (Fan)	Adapter for wiring	
C1R	Capaciter (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

2TW23666-1E

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		Measuring location	Sound power level
	H	L		
FXDQ20M9	37	32		50
FXDQ25M9	37	32		50

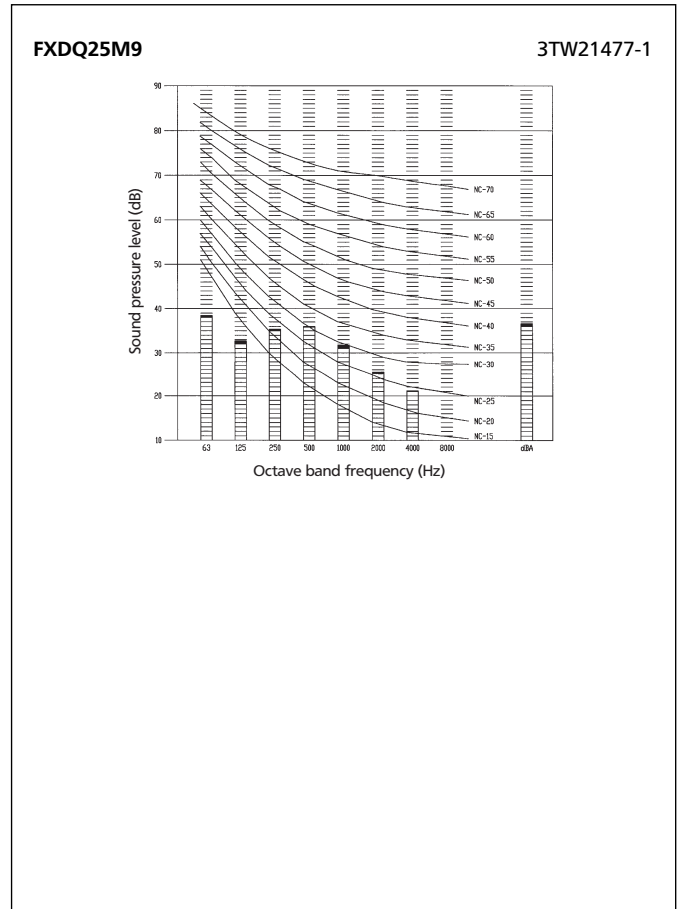
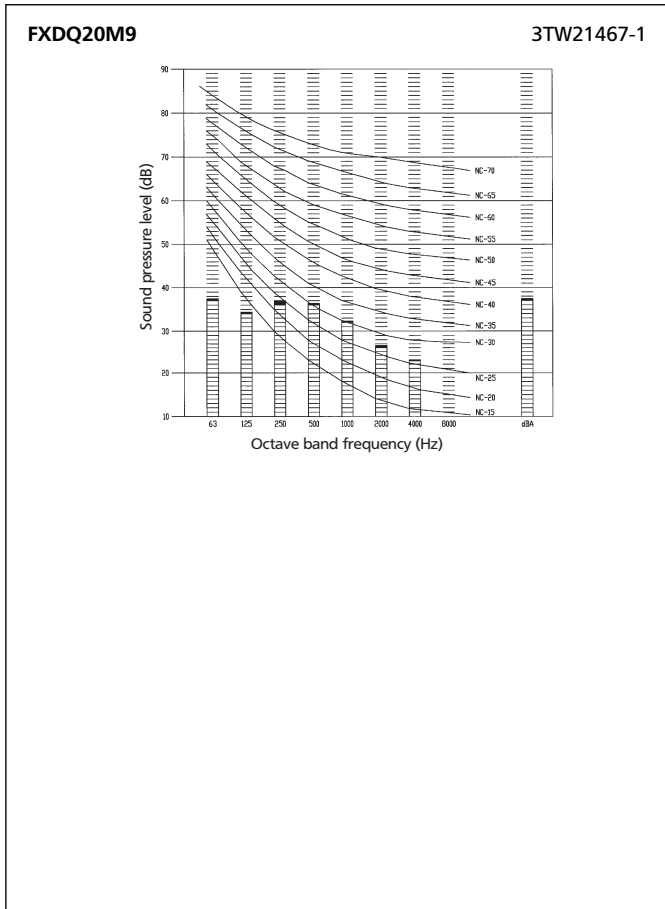
NOTES

- 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

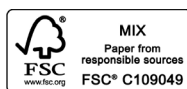
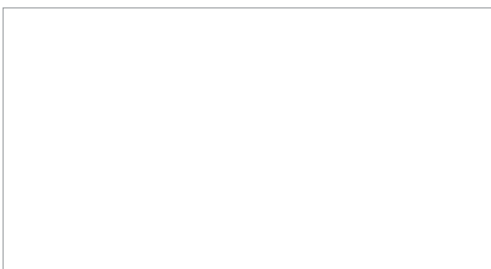
10 - 2 Sound Pressure Spectrum

10





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