



Air Conditioning Technical Data

Slim concealed ceiling unit



EEDEN14-204

FXDQ-A

TABLE OF CONTENTS

FXDQ-A

1	Features	2
2	Specifications	3
	Technical Specifications	3
	Electrical Specifications	4
3	Electrical data	5
4	Options	6
5	Capacity tables	7
	Cooling Capacity Tables	7
	Heating Capacity Tables	8
	Capacity Correction Factor	9
6	Dimensional drawings	11
7	Centre of gravity	13
8	Piping diagrams	15
9	Wiring diagrams	16
	Wiring Diagrams - Single Phase	16
10	Sound data	17
	Sound Pressure Spectrum	17
11	Fan characteristics	19

1 Features

- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- Low energy consumption thanks to DC inverter fans
- Medium external static pressure facilitates unit use with flexible ducts of varying lengths
- Standard drain pump with 750mm lift

1



Inverter



Home leave operation



Fan only



Auto cooling-heating changeover



Whisper quiet



Fan speed steps



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Multi tenant



Drain pump kit

2 Specifications

2-1 Technical Specifications				FXDQ15A	FXDQ20A	FXDQ25A	FXDQ32A	FXDQ40A	FXDQ50A	FXDQ63A		
Cooling capacity	Nom.			kW	1.7	2.2	2.8	3.6	4.5	5.6	7.1	
Heating capacity	Nom.			kW	1.9	2.5	3.2	4.0	5.0	6.3	8.0	
Power input - 50Hz	Cooling	Nom.	kW	0.071				0.078	0.099	0.110		
	Heating	Nom.	kW	0.068				0.075	0.096	0.107		
Power input - 60Hz	Cooling	Nom.	kW	0.071				0.078	0.099	0.110		
	Heating	Nom.	kW	0.068				0.075	0.096	0.107		
Casing	Colour			Galvanised steel / Non painted								
Dimensions	Unit	Height	mm	200								
		Width	mm	750				950		1,150		
		Depth	mm	620								
	Packed unit	Height	mm	260								
		Width	mm	944				1,144		1,344		
		Depth	mm	785								
Required ceiling void >			mm	240								
Weight	Unit		kg	22				26		29		
	Packed unit		kg	30				34		38		
Heat exchanger	Length		mm	500				700		900		
	Rows	Quantity		2				3				
	Fin pitch		mm	1.5								
	Passes	Quantity		3				6				
	Face area		m²	0.126				0.176		0.227		
	Stages	Quantity		12								
	Empty tubeplate hole	Quantity		0				4	0			
	Tube type			ø7 Hi-XD								
	Fin	Type		Symmetric waffle louver								
		Treatment		Hydrophilic								
	Fan	Type			Sirocco fan							
		Quantity			1							
Air flow rate - 50Hz		Cooling	High	m³/min	7.5	8.0		10.5	12.5	16.5		
			Nom.	m³/min	7.0	7.2		9.5	11.0	14.5		
			Low	m³/min	6.4				8.5	10.0	13.0	
Air flow rate - 60Hz		Cooling	Super high	m³/min	7.5	8.0		10.5	12.5	16.5		
			High	m³/min	7.0	7.2		9.5	11.0	14.5		
			Low	m³/min	6.4				8.5	10.0	13.0	
External static pressure - 50Hz		High	Pa	30				44				
		Nom.	Pa	10				15				
External static pressure - 60Hz		High	Pa	30				44				
		Nom.	Pa	10				15				
Fan motor	Quantity			1								
	Model			KFD-280-44-8A				KFD-280-65-8A				
	Output	High	W	44				65				
Sound power level	Cooling	Nom.	dBA	50	51			52	53	54		
Sound pressure level	Cooling	High	dBA	32	33			34	35	36		
		Nom.	dBA	31				32	33	34		
		Low	dBA	27				28	29	30		
Refrigerant	Type			R-410A								
	Control			Electronic expansion valve								
Piping connections	Liquid	Type		Flare connection								
		OD	mm	6.35						9.52		
	Gas	Type		Flare connection								
		OD	mm	12.7						15.9		
	Drain			VP20 (I.D. 20/O.D. 26)								
	Heat insulation			Both liquid and gas pipes								
Air filter	Type			Removable / washable / mildew proof								
Drain-up height			mm	600								
Safety devices	Item	01		Fuse								
		02		Thermal protector for fan motor								

2 Specifications

2-2 Electrical Specifications				FXDQ15A	FXDQ20A	FXDQ25A	FXDQ32A	FXDQ40A	FXDQ50A	FXDQ63A	
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	0.4				0.5		0.6	
	Maximum fuse amps (MFA)		A	16							
	Full load amps (FLA)	Total	A	0.3				0.4		0.5	
Current - 60Hz	Minimum circuit amps (MCA)		A	0.4				0.5		0.6	
	Maximum fuse amps (MFA)		A	16							
	Full load amps (FLA)	Total	A	0.3				0.4		0.5	

Notes

- (1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m; level difference: 0m
- (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m
- (3) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- (4) External static pressure is changeable to set by the remote control (from standard to high, see installation manual)
- (5) The operation sound levels are conversion values in anechoic chamber. In practice, sound levels tend to be higher than the specified values due to ambient noise or reflection. The sound level will increase by ± 5 dBA when the suction place is changed to bottom suction.
- (6) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- (7) Maximum allowable voltage range variation between phases is 2%.
- (8) MCA/MFA: $MCA = 1.25 \times FLA$
- (9) $MFA \leq 4 \times FLA$
- (10) Next lower standard fuse rating minimum 15A
- (11) Select wire size based on the value of MCA
- (12) Instead of a fuse, use a circuit breaker

3 Electrical data

3 - 1 Electrical Data

FXDQ-A

Model	Power supply					IFM		Input	
	Hz	Volts	Voltage range	MCA	MFA	kW	FLA	Cooling	Heating
FXDQ15A	50	220-240V	Max. 264V Min. 198V	0.4	16	0.036	0.3	71	68
FXDQ20A				0.4		0.036	0.3	71	68
FXDQ25A				0.4		0.036	0.3	71	68
FXDQ32A				0.4		0.036	0.3	71	68
FXDQ40A				0.5		0.038	0.4	78	75
FXDQ50A				0.5		0.038	0.4	99	96
FXDQ63A				0.6		0.06	0.5	110	107
FXDQ15A	60	220V	Max. 242V Min. 198V	0.4	16	0.036	0.3	71	68
FXDQ20A				0.4		0.036	0.3	71	68
FXDQ25A				0.4		0.036	0.3	71	68
FXDQ32A				0.4		0.036	0.3	71	68
FXDQ40A				0.5		0.038	0.4	78	75
FXDQ50A				0.5		0.038	0.4	99	96
FXDQ63A				0.6		0.060	0.5	110	107

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.

4D081432

4 Options

4 - 1 Options

FXDQ-A

Kit name	MODEL		
	FXDQ15A FXDQ20A FXDQ25A FXDQ32A	FXDQ40A FXDQ50A	FXDQ63A
Wired remote control	BRC1D52		
	BRC1D61(1)		
Simplified remote controller	BRC2C51*3		
Stylish remote controller	BRC1E52A*4, BRC1E52B*5		
Remote control for hotel use	BRC3A61		
Infrared Remote control (H/P)	BRC4C62		
Central remote control	DCS302C51		
	DCS302C61 (1)		
Unified ON/OFF control	DCS301B51		
	DCS301B61(1)		
Schedule timer	DST301B51		
	DST301B61(1)		
Residential central remote control	DCS303A51 (1) (2)		
Adapter for wiring	KRP1B56		
Wiring adapter for electrical appendices 1	KRP2A53		
Wiring adapter for electrical appendices 2	KRP4A54		
Remote sensor	KRCS01-1		
Installation box for adapter PCB	KRP1BA101		
Electric box with earth terminal - 2 blocks	KJB212A		
Electric box with earth terminal - 3 blocks	KJB311A		
Noise filter (for electromagnetic interface use only)	KEK26-1A		
External control adapter for outdoor unit (must be installed on indoor unit)	DTA104A53		
Multi tenant	DTA114A61		
Insulation kit for high humidity	KDT25N32	KDT25N50	KDT25N63

4D081437

(1): For DAME only

(2): For residential use only. Cannot be used together with other centralised control equipment.

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

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

*5: Included languages are: English, German, Albanian, Bulgarian, Croatian, Czech, Hungarian, Romanian, Serbian, Slovak and Slovenian.

5 Capacity tables

5 - 1 Cooling Capacity Tables

FXDQ-A

Cooling Capacity

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

Unit size	Outdoor °CDB	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
15	35.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.5	1.8	1.4	1.8	1.4	1.9	1.4
20	35.0	1.5	1.4	1.8	1.6	2.1	1.8	2.2	1.9	2.3	1.9	2.4	1.7	2.4	1.8
25	35.0	1.9	1.6	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.2	3.0	2.1	3.1	2.0
32	35.0	2.4	1.9	2.9	2.2	3.4	2.4	3.6	2.6	3.8	2.6	3.9	2.5	4.0	2.5
40	35.0	3.0	2.5	3.6	2.8	4.2	3.3	4.5	3.3	4.7	3.2	4.9	3.1	5.0	3.2
50	35.0	3.8	3.1	4.5	3.5	5.2	3.9	5.6	4.0	5.9	4.0	6.0	3.9	6.2	3.7
63	35.0	4.8	3.8	5.7	4.3	6.6	4.8	7.1	4.9	7.5	4.8	7.7	4.8	7.8	4.8

3TW32902-4A

5 Capacity tables

5 - 2 Heating Capacity Tables

FXDQ-A

Heating Capacity

Unit size	Outdoor air temp		On coil temp.: °CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
15	7.0	6.0	2.0	2.0	1.9	1.8	1.8	1.7
20	7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
25	7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
32	7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
40	7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
50	7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
63	7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0

3TW32902-3

5 Capacity tables

5 - 3 Capacity Correction Factor

FXDQ-A

		Capacity correction factor Te = 9°C							
		Indoor air temperature	14.0 °CWB 20.0 °CDB	16.0 °CWB 23.0 °CDB	18.0 °CWB 26.0 °CDB	19.0 °CWB 27.0 °CDB	20.0 °CWB 28.0 °CDB	22.0 °CWB 30.0 °CDB	24.0 °CWB 32.0 °CDB
FXDQ15A	TC		0.685	0.694	0.755	0.778	0.802	0.833	0.855
	SHF		1.124	1.176	1.118	1.094	1.074	1.053	1.048
FXDQ20A	TC		0.685	0.694	0.755	0.778	0.802	0.833	0.855
	SHF		1.124	1.176	1.118	1.094	1.074	1.053	1.048
FXDQ25A	TC		0.685	0.694	0.755	0.778	0.802	0.833	0.855
	SHF		1.124	1.176	1.118	1.094	1.074	1.053	1.048
FXDQ32A	TC		0.688	0.703	0.754	0.770	0.788	0.818	0.840
	SHF		1.130	1.171	1.122	1.101	1.083	1.065	1.055
FXDQ40A	TC		0.677	0.699	0.758	0.780	0.798	0.826	0.857
	SHF		1.155	1.169	1.113	1.090	1.074	1.062	1.043
FXDQ50A	TC		0.680	0.698	0.758	0.781	0.799	0.830	0.857
	SHF		1.143	1.169	1.113	1.090	1.073	1.063	1.047
FXDQ63A	TC		0.673	0.708	0.767	0.793	0.812	0.839	0.862
	SHF		1.153	1.158	1.106	1.083	1.069	1.059	1.046

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, 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, 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, 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, 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, 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, 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, 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, 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, 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, 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, corrisponde a Te = 9°C valore rapporto TC per ogni tipo di unità interna, in base alla temperatura interna di progetto X/Y °CBS/°CBU
- La Correzione C, corrisponde a Te = 9°C valore rapporto TC per ogni tipo di unità interna, in base alla temperatura interna di progetto 29/19 °CBS/°CBU

Hoe deze tabel gebruiken:

Vermogen: totaal vermogen voor High Sensible-modus = totaal vermogen voor tabel normaal vermogen x ratio TV.

SHF: SHF voor High Sensible-modus = SHF voor tabel normaal vermogen x ratio SHF.

Indien SHF groter is dan 1, is SHF "1"

Bij het selecteren van units voor gemengd gebruik (RA DX-binnenunits + VRV DX-binnenunits),

- Correctie C, komt overeen met ratiowaarde Te = 9°C TC voor elk type binnenunit, afhankelijk van de ontwerptemperatuur van de binnenunit X/Y °CDB/°CNB
- Correctie C, 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, 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, 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, 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, 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

5 Capacity tables

5 - 3 Capacity Correction Factor

FXDQ-A

		Capacity correction factor Te = 11°C							
		Indoor air temperature	14.0 °CWB 20.0 °CDB	16.0 °CWB 23.0 °CDB	18.0 °CWB 26.0 °CDB	19.0 °CWB 27.0 °CDB	20.0 °CWB 28.0 °CDB	22.0 °CWB 30.0 °CDB	24.0 °CWB 32.0 °CDB
FXDQ15A	TC		0.550	0.565	0.583	0.621	0.658	0.714	0.752
	SHF		1.124	1.218	1.272	1.212	1.166	1.109	1.090
FXDQ20A	TC		0.550	0.565	0.583	0.621	0.658	0.714	0.752
	SHF		1.124	1.218	1.272	1.212	1.166	1.109	1.090
FXDQ25A	TC		0.550	0.565	0.583	0.621	0.658	0.714	0.752
	SHF		1.124	1.218	1.272	1.212	1.166	1.109	1.090
FXDQ32A	TC		0.551	0.573	0.587	0.619	0.645	0.692	0.730
	SHF		1.130	1.219	1.273	1.220	1.179	1.129	1.106
FXDQ40A	TC		0.545	0.558	0.587	0.625	0.657	0.705	0.750
	SHF		1.155	1.249	1.262	1.204	1.162	1.120	1.091
FXDQ50A	TC		0.547	0.561	0.587	0.625	0.657	0.710	0.754
	SHF		1.143	1.235	1.262	1.204	1.162	1.120	1.096
FXDQ63A	TC		0.541	0.561	0.601	0.641	0.674	0.725	0.763
	SHF		1.153	1.242	1.244	1.189	1.152	1.114	1.093

3D079901

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 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.
- 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 .

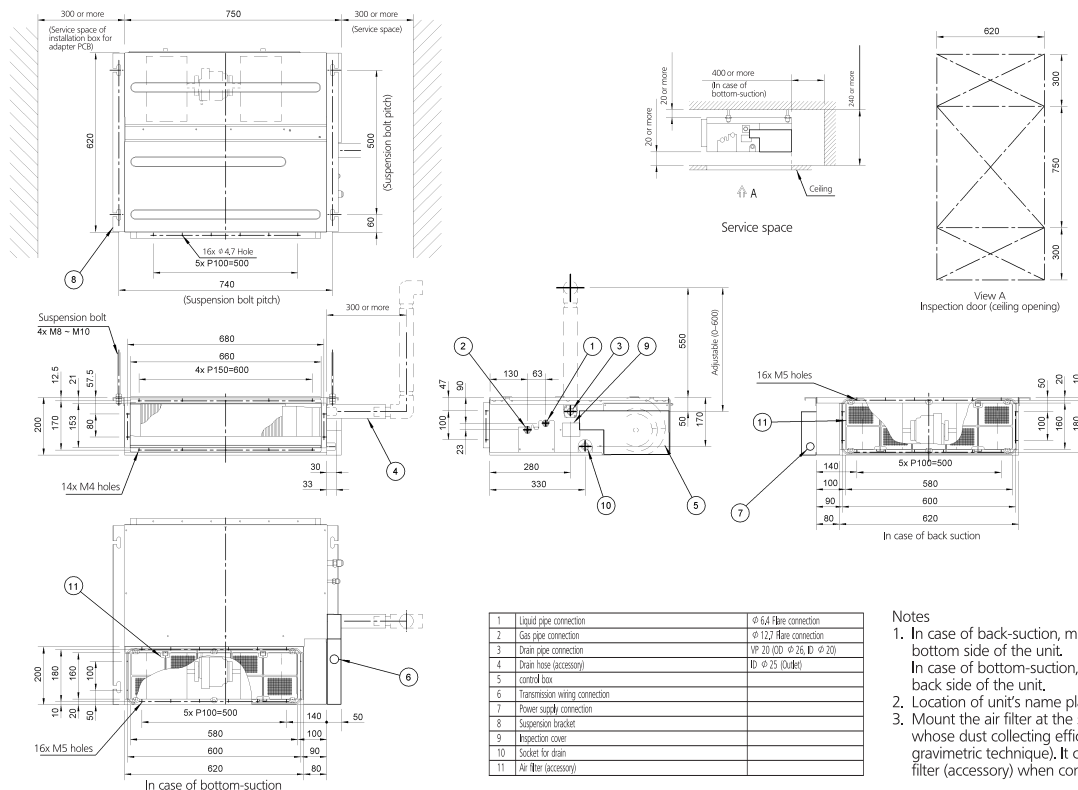
Capacidad sensible (FCS): SHF para el modo de alta sensibilidad = SHF para la tabla de capacidad normal X relación SHF.
Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.
Capacità sensibile (SHF): SHF per modalità ad alta capacità sensibile = SHF per tabella capacità normali X rapporto SHF.
Gevoeligheids capaciteit (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.

- 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 Dimensional drawings

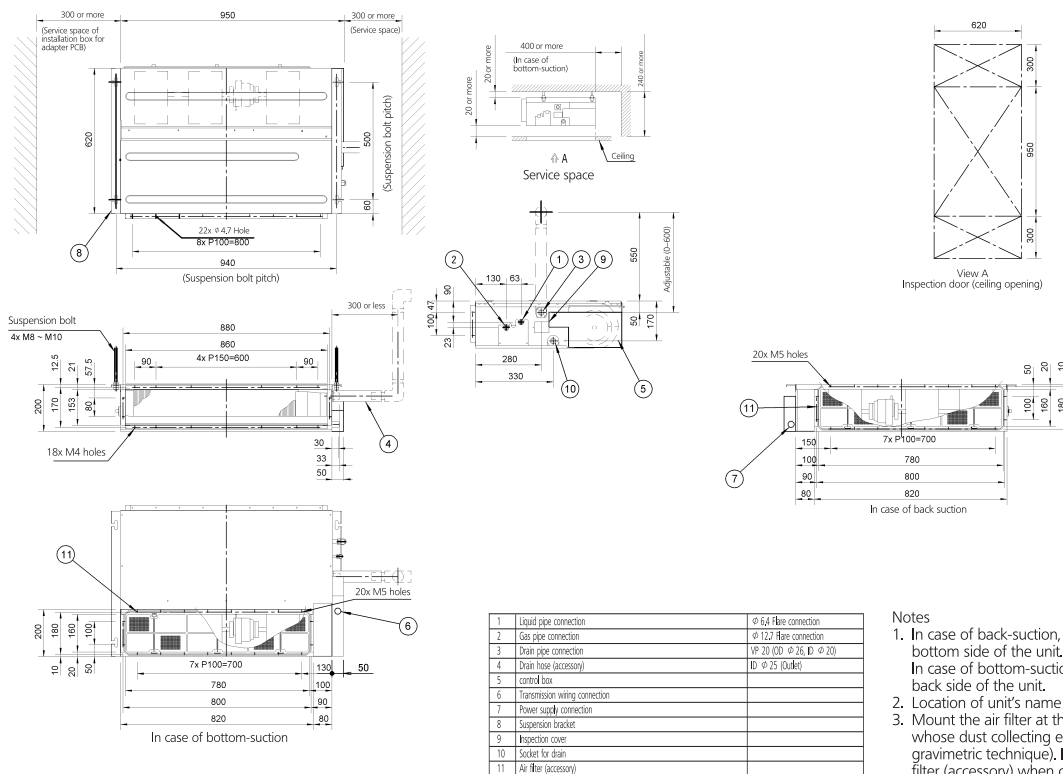
6 - 1 Dimensional Drawings

FXDQ15-32A



3D081435

FXDQ40-50A

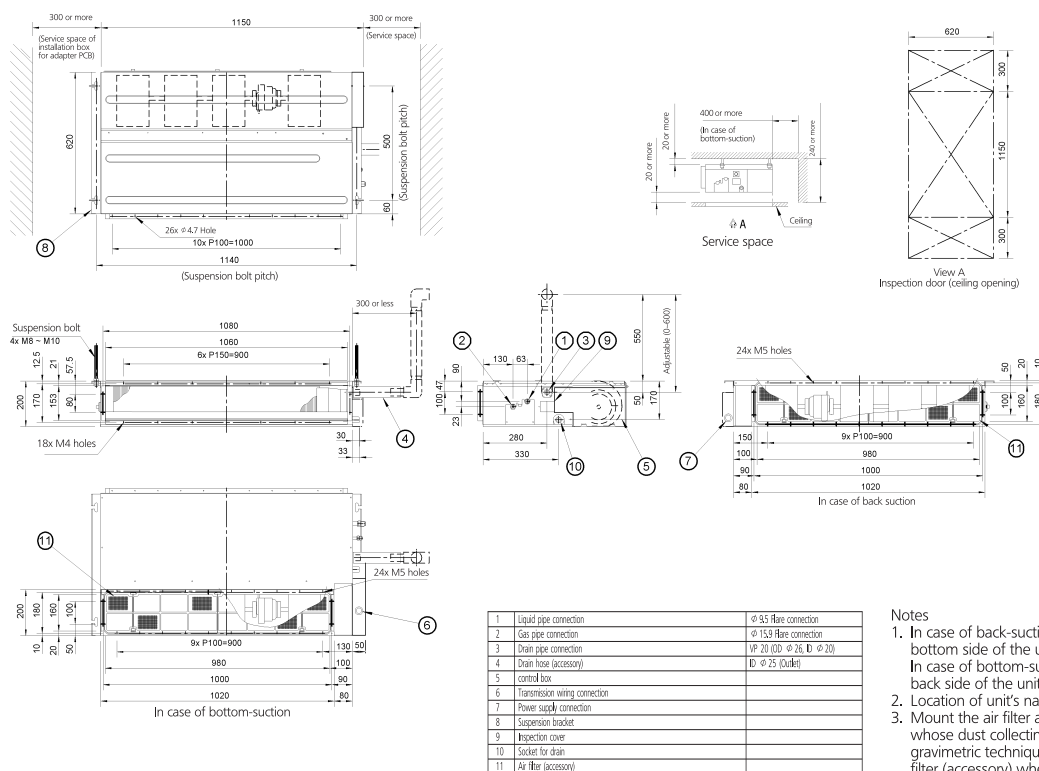


3D081436

6 Dimensional drawings

6 - 1 Dimensional Drawings

FXDQ63A

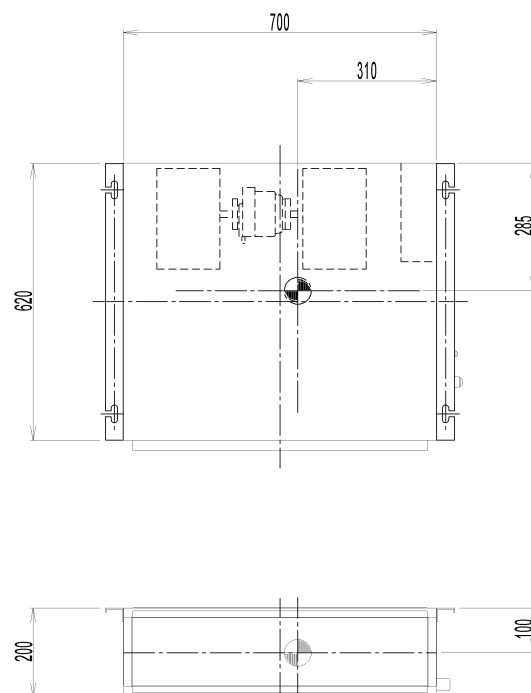


3D081441

7 Centre of gravity

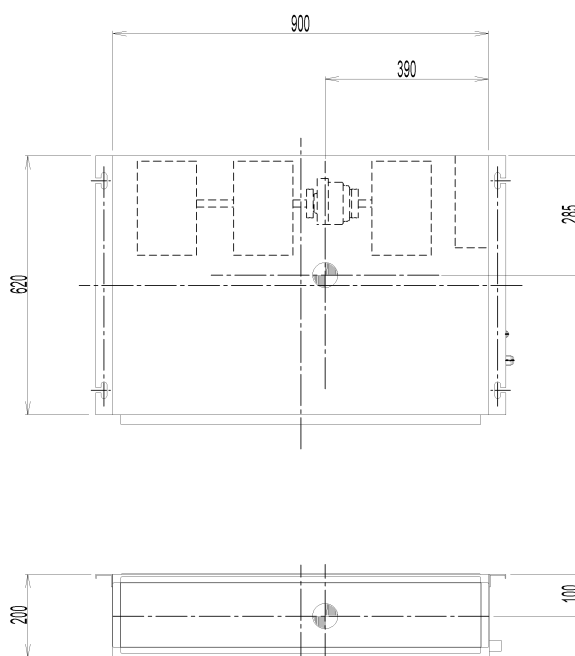
7 - 1 Centre of Gravity

FXDQ15-32A



4D081430

FXDQ40-50A

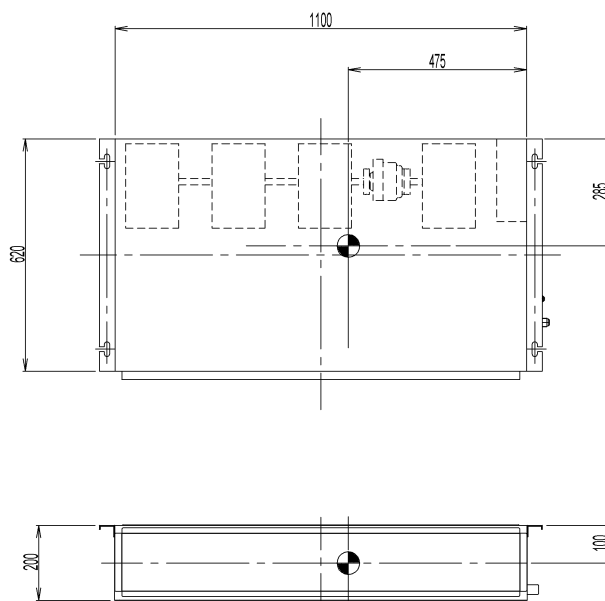


4D081431

7 Centre of gravity

7 - 1 Centre of Gravity

FXDQ63A

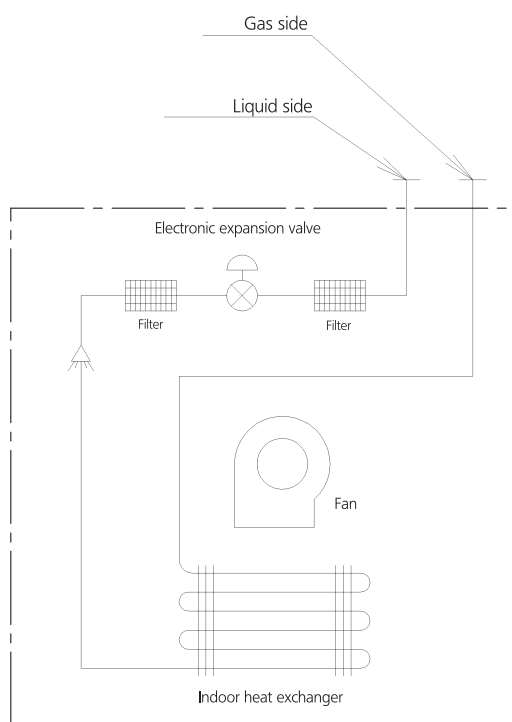


4D081433

8 Piping diagrams

8 - 1 Piping Diagrams

FXDQ-A



4D081336

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXDQ-A

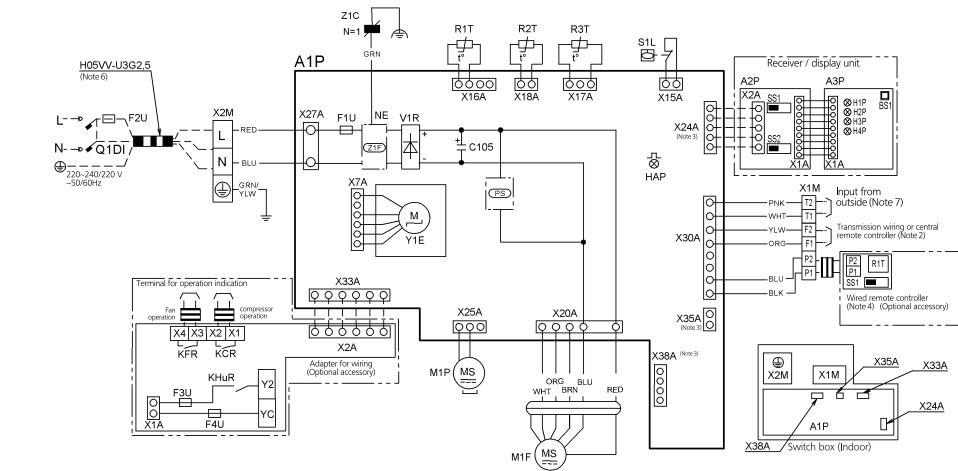
Indoor unit
A1P : Printed circuit board
C105 : Capacitor
F2U : Power supply circuit
F1U : Fuse (T, 3.15A, 250V)
F2U : Field use
Z1C : Ferrite core (Noise filter)
H4P : Light emitting diode (Service monitor-green)
M1F : Motor (Fan)
M1P : Motor (Drain pump)
Q1D1 : Earth leak detector
R1T : Thermistor (Air)
R2T/R3T : Thermistor (Coil)
S1L : Float switch
V1R : Diode bridge
X1M : Terminal block(Control)
X2M : Terminal block(Power supply)
Z1F : Noise filter

Receiver / display unit
A2P : Printed circuit board
A3P : Printed circuit board
BS1 : Push button (On/Off)
H1P : Light emitting diode (on-red)
H2P : Light emitting diode (filter sign-red)
H3P : Light emitting diode (filter sign-green)
H4P : Light emitting diode (defrost-orange)
SS1 : Selector switch(Main/Sub)
SS2 : Selector switch(Infrared address set)

Connector for optional parts
X24A : Connector (Infrared remote controller)
X33A : Connector (Adapter for wiring)
X35A : Connector (Power supply connector)
X38A : Connector (Multitenant)

Adapter for wiring
F3U/F4U : Fuse (B, 5A, 250V)
KFR, KCR, KHuR : Magnetic relay

Wired remote controller
R1T : Thermistor (air)
SS1 : Select switch (MAIN-SUB)



Notes

1. Terminal block: D-Connector: Field wiring:
2. In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
3. X24A, X33A, X35A, X38A are connected when the optional accessories are being used.
4. In case of main/sub overcharge, see the installation manual attached to remote controller.
5. Symbols show as follows: RED:Red BLK:Black WHT:White YLW:Yellow GRN:Green ORG:Orange BRN:Brown Pnk:Pink GRY:Gray BLU:Blue
6. Shows only in case of protected pipes, use HO7RN-F in case of no protection.
7. When connecting the input wires from outside, forced OFF or ON/OFF control operation can be selected by the remote controller, see manual for detail.

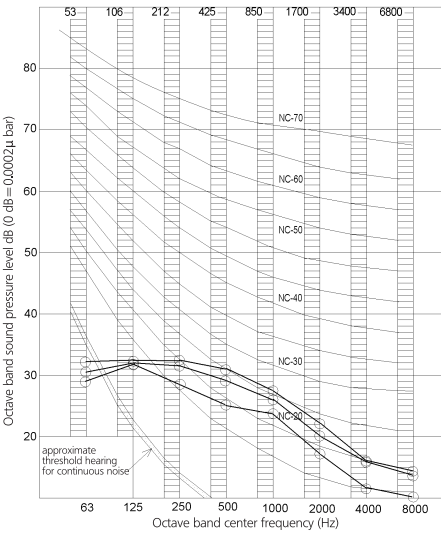
L : Live
N : Neutral
• : Wire clamp
⊕ : Protective earth (screw)

3D080362B

10 Sound data

10 - 1 Sound Pressure Spectrum

FXDQ15A



NOTES

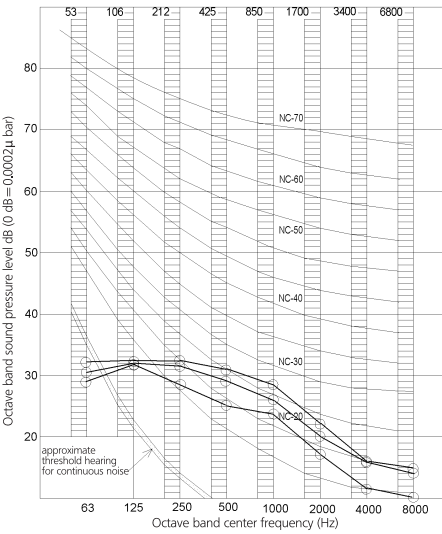
- Overall (dB)

Scale	Air flow rate		
	H	M	L
A	32	31	27

(B.G.N is already rectified)
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- The operating sound is based on the rear side suction inlet, and the external static pressure 10Pa.
- Operating conditions:
 - Power source: 220-240V/50Hz, 220V/60Hz
 - Cooling: Return air temperature: 27°CDB, 19°CWB
 - Outdoor temperature: 35°CDB, 24°CWB
 - Heating: Return air temperature: 20°CDB, 15°CWB
 - Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone:

4D081438

FXDQ20A



NOTES

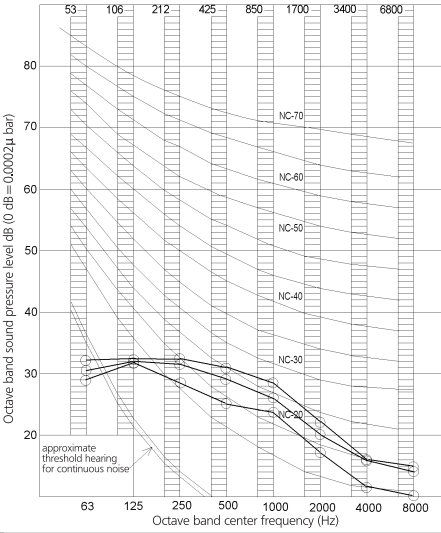
- Overall (dB)

Scale	Air flow rate		
	H	M	L
A	33	31	27

(B.G.N is already rectified)
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- The operating sound is based on the rear side suction inlet, and the external static pressure 10Pa.
- Operating conditions:
 - Power source: 220-240V/50Hz, 220V/60Hz
 - Cooling: Return air temperature: 27°CDB, 19°CWB
 - Outdoor temperature: 35°CDB, 24°CWB
 - Heating: Return air temperature: 20°CDB, 15°CWB
 - Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone:

4D081439

FXDQ25A



NOTES

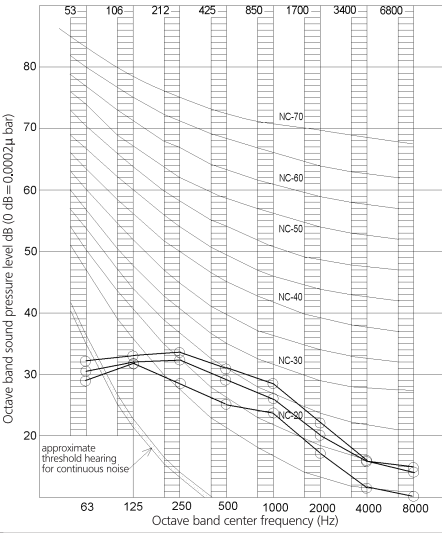
- Overall (dB)

Scale	Air flow rate		
	H	M	L
A	33	31	27

(B.G.N is already rectified)
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- The operating sound is based on the rear side suction inlet, and the external static pressure 10Pa.
- Operating conditions:
 - Power source: 220-240V/50Hz, 220V/60Hz
 - Cooling: Return air temperature: 27°CDB, 19°CWB
 - Outdoor temperature: 35°CDB, 24°CWB
 - Heating: Return air temperature: 20°CDB, 15°CWB
 - Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone:

4D081440

FXDQ32A



NOTES

- Overall (dB)

Scale	Air flow rate		
	H	M	L
A	33	31	27

(B.G.N is already rectified)
- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- The operating sound is based on the rear side suction inlet, and the external static pressure 10Pa.
- Operating conditions:
 - Power source: 220-240V/50Hz, 220V/60Hz
 - Cooling: Return air temperature: 27°CDB, 19°CWB
 - Outdoor temperature: 35°CDB, 24°CWB
 - Heating: Return air temperature: 20°CDB, 15°CWB
 - Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone:

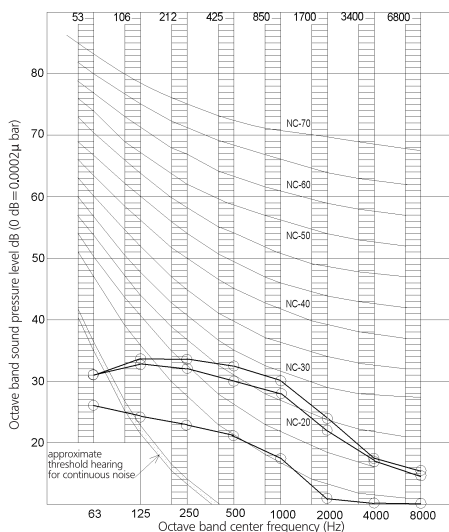
4D081442

10 Sound data

10 - 1 Sound Pressure Spectrum

10

FXDQ40A



NOTES

1 Overall (dB)

Scale	Air flow rate		
	H	M	L
A	34	32	28

(B.G.N. is already rectified)

2 Measuring place: Anechoic chamber

3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 15Pa.

5 Operating conditions:

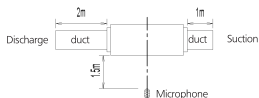
Power source 220-240V/50Hz, 220V/60Hz

Cooling: Return air temperature: 27°CDB, 19°CWB

Outdoor temperature: 35°CDB, 24°CWB

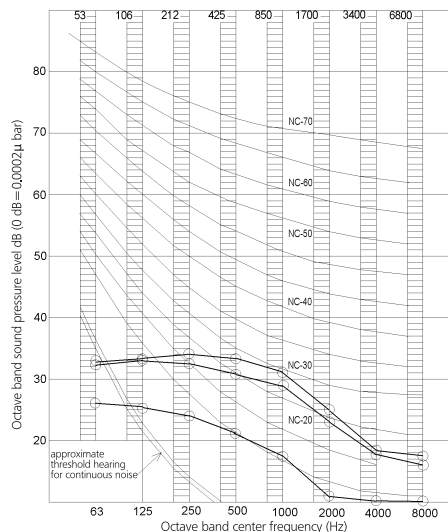
Heating: Return air temperature: 20°CDB, 15°CWB

Outdoor temperature: 7°CDB, 6°CWB



4D081443

FXDQ50A



NOTES

1 Overall (dB)

Scale	Air flow rate		
	H	M	L
A	35	33	29

(B.G.N. is already rectified)

2 Measuring place: Anechoic chamber

3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 15Pa.

5 Operating conditions:

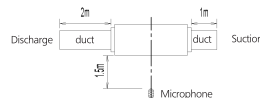
Power source 220-240V/50Hz, 220V/60Hz

Cooling: Return air temperature: 27°CDB, 19°CWB

Outdoor temperature: 35°CDB, 24°CWB

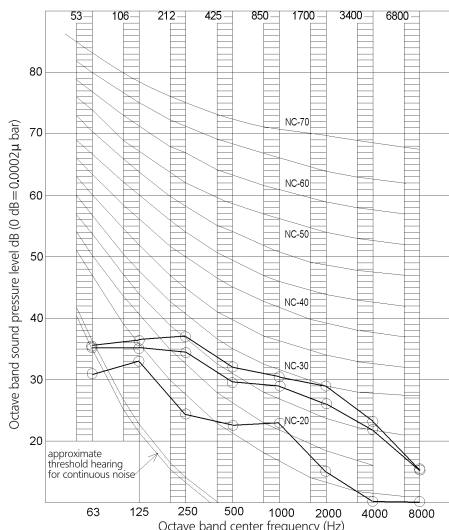
Heating: Return air temperature: 20°CDB, 15°CWB

Outdoor temperature: 7°CDB, 6°CWB



4D081444

FXDQ63A



NOTES

1 Overall (dB)

Scale	Air flow rate		
	H	M	L
A	35	34	30

(B.G.N. is already rectified)

2 Measuring place: Anechoic chamber

3 Operation noise differs with operation and ambient conditions.

4 The operating sound is based on the rear side suction inlet, and the external static pressure 15Pa.

5 Operating conditions:

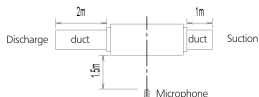
Power source 220-240V/50Hz, 220V/60Hz

Cooling: Return air temperature: 27°CDB, 19°CWB

Outdoor temperature: 35°CDB, 24°CWB

Heating: Return air temperature: 20°CDB, 15°CWB

Outdoor temperature: 7°CDB, 6°CWB

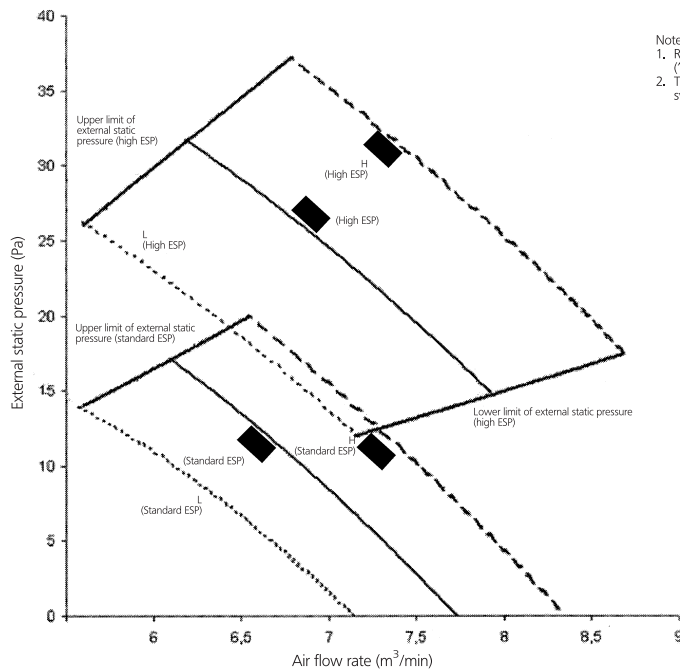


4D081445

11 Fan characteristics

11 - 1 Fan Characteristics

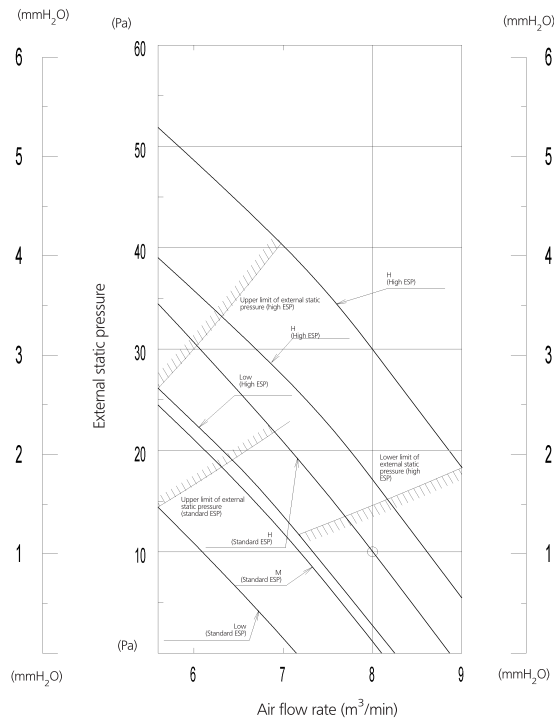
FXDQ15A



- Notes:
1. Remote controller can be used to switch between 'HIGH' and 'LOW'. ('H', 'M' and 'L' for FXDQ-A2VEB model)
 2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081424

FXDQ20-25A



- Notes:
1. Remote controller can be used to switch between 'HIGH' and 'LOW'. ('H', 'M' and 'L' for FXDQ-A2VEB model)
 2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

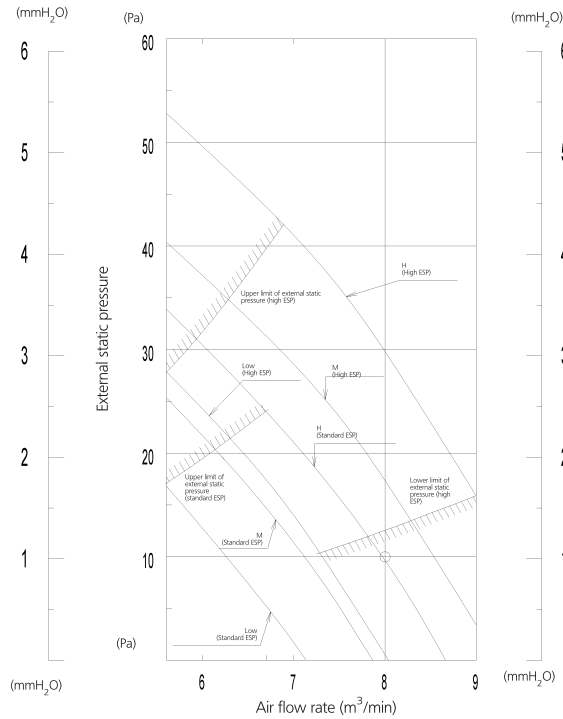
4D081434

11 Fan characteristics

11 - 1 Fan Characteristics

11

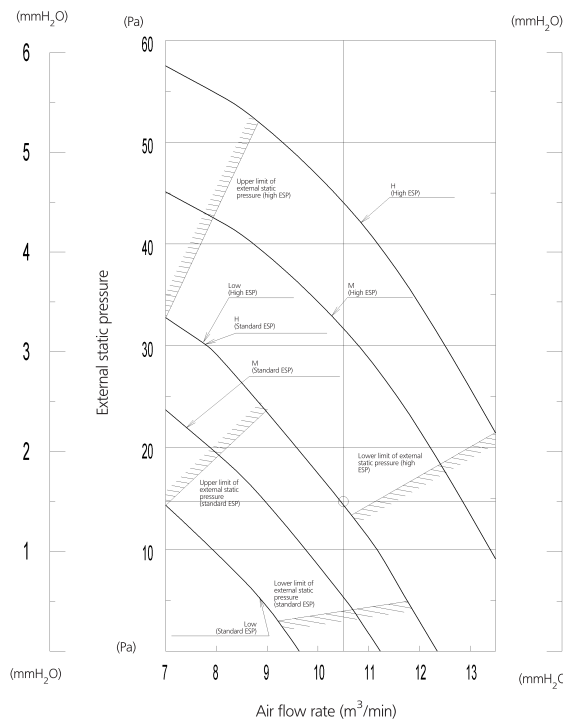
FXDQ32A



- Notes:
1. Remote controller can be used to switch between 'HIGH' and 'LOW'. ('H', 'M' and 'L' for FXDQ-A2VEB model)
 2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081425

FXDQ40A



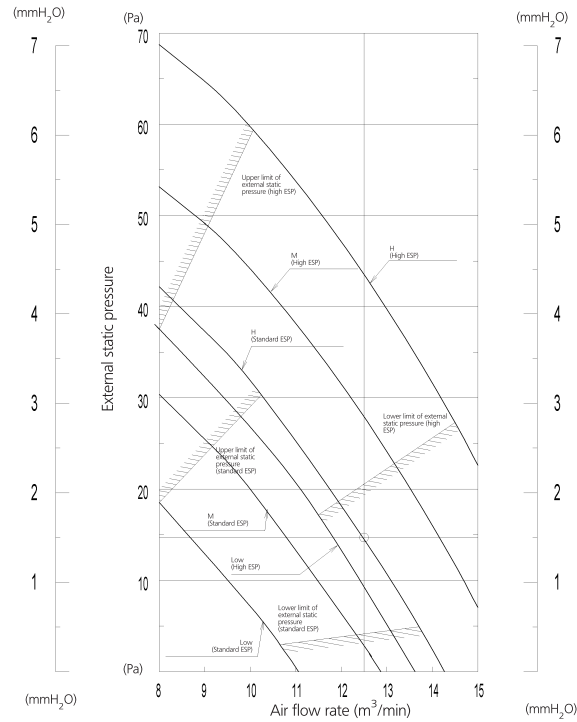
- Notes:
1. Remote controller can be used to switch between 'HIGH' and 'LOW'. ('H', 'M' and 'L' for FXDQ-A2VEB model)
 2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081426

11 Fan characteristics

11 - 1 Fan Characteristics

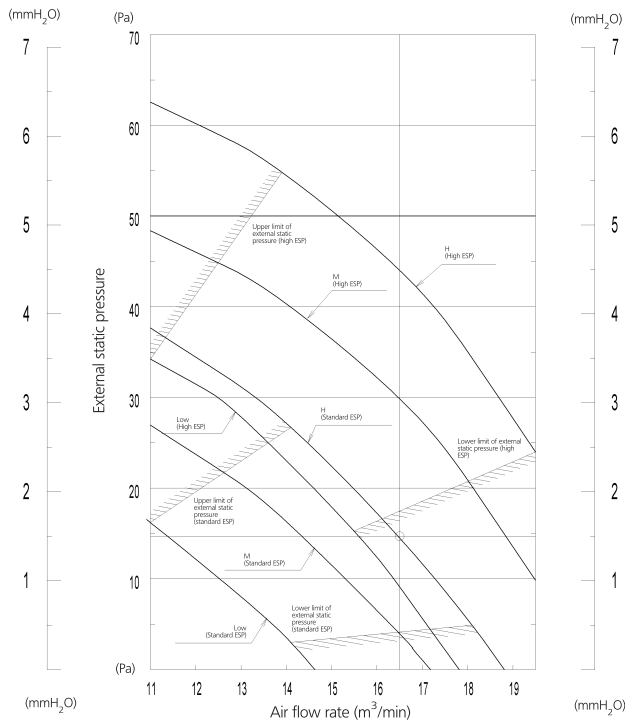
FXDQ50A



- Notes:
1. Remote controller can be used to switch between 'HIGH' and 'LOW'. ('H', 'M' and 'L' for FXDQ-A2VEB model)
 2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081427

FXDQ63A



- Notes:
1. Remote controller can be used to switch between 'HIGH' and 'LOW'. ('H', 'M' and 'L' for FXDQ-A2VEB model)
 2. The air flow is set to 'STANDARD' before leaving the factory. It is possible to switch between 'STANDARD ESP' and 'HIGH ESP' by remote controller.

3D081429



These products are not within the scope of the Eurovent certification program

The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V.. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.

BARCODE

Daikin products are distributed by: