



Air Conditioning Technical Data

2-way blow ceiling mounted cassette



EEDEN13-204

FXCQ-A

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FXCQ-A

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1 Features

- Low energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Stylish unit blends easily with any interior, as the flaps close entirely when not in operation
- Improved comfort thanks to automatic air flow adjustment to required load
- Individual flap control: one flap can be easily closed via the wired remote controller (BRC1E52) in case you would refurbish or rearrange your interior
- Auto swing function ensures efficient air and temperature distribution and prevents ceiling soiling
- Easy to install: depth of all units is 600mm
- Maintenance operations can be performed by removing the front panel
- Standard drain pump with 850mm lift



3 steps



standard

2 Specifications

2-1 Technical Specifications				FXCQ20A	FXCQ25A	FXCQ32A	FXCQ40A	FXCQ50A	FXCQ63A	FXCQ80A	FXCQ125A	
Cooling capacity	Nom.			kW	2.2 (1)	2.8 (1)	3.6 (1)	4.5 (1)	5.6 (1)	7.1 (1)	9.0 (1)	14.0 (1)
Heating capacity	Nom.			kW	2.5 (2)	3.2 (2)	4.0 (2)	5.0 (2)	6.3 (2)	8.0 (2)	10.0 (2)	16.0 (2)
Power input - 50Hz	Cooling	Nom.		kW	0.031	0.039		0.041	0.059	0.063	0.090	0.149
	Heating	Nom.		kW	0.028	0.035		0.037	0.056	0.060	0.086	0.146
Casing	Material			Galvanised steel plate								
Dimensions	Unit	Height	mm	305								
		Width	mm	775				990		1,445		
		Depth	mm	620								
Weight	Unit			kg	19			22	25	33	38	
Decoration panel	Model			BYBCQ40HW1				BYBCQ63HW1		BYBCQ125HW1		
	Colour			Fresh white (6.5Y 9.5/0.5)								
	Dimensions	Height	mm	55								
		Width	mm	1,070				1,285		1,740		
		Depth	mm	700								
Weight	kg			10			11		13			
Heat exchanger	Rows	Quantity		2								
	Fin pitch			mm	1.2							
	Face area			m ²	0.334				0.218		0.320	
	Stages	Quantity		16								
Heat exchanger 2	Face area			m ²	-				0.218		0.320	
Fan	Type			Turbo fan								
	Air flow rate - 50Hz	Cooling	High	m ³ /min	10.5	11.5		12	15	16	26	32
			Nom.	m ³ /min	9	9.5		10.5	13	14	22.5	27.5
			Low	m ³ /min	7.5	8		8.5	10.5	11.5	18.5	22.5
Quantity			1				2					
Model			QTS36A15M									
Output	High	W	46				106		46		106	
Drive			Direct drive									
Fan motor 2	Drive			-							Direct drive	
	Output	High	W	-							46.000	106.000
Sound pressure level	Cooling	High	dBA	32.0	34.0		36.0	37.0	39.0	42.0	46.0	
		Nom.	dBA	30.0	31.0	32.0	33.0	35.0	37.0	38.0	42.0	
		Low	dBA	28.0	29.0	30.0	31.0		32.0	33.0	38.0	
	Heating	High	dBA	32.0	34.0		36.0	37.0	39.0	42.0	46.0	
		Nom.	dBA	30.0	31.0	32.0	33.0	35.0	37.0	38.0	42.0	
		Low	dBA	28.0	29.0	30.0	31.0		32.0	33.0	38.0	
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			VP25 (O.D. 32 / I.D. 25)									
Temperature control			Microprocessor thermostat for cooling and heating									
Air filter	Type			Resin net with mold resistance								
Safety devices	Item	01		Fuse								

Standard Accessories : Insulation piping cover for drain piping;

Standard Accessories : Screws;

Standard Accessories : Clamps;

Standard Accessories : Sealing material;

Standard Accessories : Washer clamp;

Standard Accessories : Joint insulating material;

Standard Accessories : Drain hose;

Standard Accessories : Clamp metal;

Standard Accessories : Washer for hanger bracket;

Standard Accessories : Installation pattern;

2 Specifications

Standard Accessories : Declaration of conformity;

Standard Accessories : Installation manual;

Standard Accessories : Operation manual;

2

2-2 Electrical Specifications			FXCQ20A	FXCQ25A	FXCQ32A	FXCQ40A	FXCQ50A	FXCQ63A	FXCQ80A	FXCQ125A	
Power supply	Name		VE								
	Phase		1~								
	Frequency	Hz	50								
	Voltage	V	220-240								
Voltage range	Min.	%	-10								
	Max.	%	10								
Current - 50Hz	Minimum circuit amps (MCA)		A	0.3			0.4	0.5	0.6	1.1	
	Maximum fuse amps (MFA)		A	16							
	Full load amps (FLA)	Total	A	0.2			0.3	0.4	0.5	0.9	

Notes

- (1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m (horizontal)
- (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m (horizontal)
- (3) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- (4) 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 x FLA
- (7) MFA ≤ 4 x 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

FXCQ-A				Power supply		IFM		Input (W)	
Model	Hz	Volts	Voltage range	MCA	MFA	kW	FLA	Cooling	Heating
FXCQ20A	50	220-240	Max. 264 Min. 198	0.3	16	0.046	0.2	31	28
FXCQ25A				0.3	16	0.046	0.2	39	35
FXCQ32A				0.3	16	0.046	0.2	39	35
FXCQ40A				0.3	16	0.046	0.2	41	37
FXCQ50A				0.4	16	0.046	0.3	59	56
FXCQ63A				0.5	16	0.106	0.4	63	60
FXCQ80A				0.6	16	0.046 + 0.046	0.5	90	86
FXCQ125A				1.1	16	0.106 + 0.106	0.9	149	146

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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NOTES

- 1 Voltage range:
Units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- 2 Maximum allowable voltage unbalance between phases is 2%.
- 3 MCA/MFA
 $MCA = 1.25 \times FLA$
 $MFA \approx 4 \times FLA$
(next lower standard fuse rating min. 16A)
- 4 Select wire size based on the MCA.
- 5 Instead of fuse, use circuit breaker.

4 Safety device settings

4 - 1 Safety Device Settings

4

FXCQ-A

Safety devices		20	25	32	40	50	63	80	125
FXCQ-A	PC board fuse	250V 3.15A	250V 3.15A	250V 3.15A	250V 3.15A	250 3.15A	250V 3.15A	250V 3.15A	250V 3.15A
	PC board fuse (Fan driver)	---	---	---	---	---	---	250V 5A 250V 6.3A	250V 5A 250V 6.3A
	Drain pump thermal fuse	°C ---	°C ---	°C ---	°C ---	°C ---	°C ---	°C ---	°C ---
	Fan motor thermal fuse	°C ---	°C ---	°C ---	°C ---	°C ---	°C ---	°C ---	°C ---
	Fan motor thermal protector	°C ---	°C ---	°C ---	°C ---	°C ---	°C ---	°C ---	°C ---

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5 Options

5 - 1 Options

FXCQ-A										
Options										
Item	Model	FXCQ20A	FXCQ25A	FXCQ32A	FXCQ40A	FXCQ50A	FXCQ63A	FXCQ80A	FXCQ125A	
Decoration panel			BYBCQ40HW1			BYBCQ63HW1		BYBCQ125HW1		
Filter related	High efficiency filter 65% <small>Note 1</small>		KAFP532B50			KAFP532B80		KAFP532B160		
	High efficiency filter 90% <small>Note 1</small>		KAFP533B50			KAFP533B80		KAFP533B160		
	Filter chamber for bottom suction		KDDFP53B50			KDDFP53B80		KDDFP53B160		
	Long life replacement filter		KAFP531B50			KAFP531B80		KAFP531B160		
Control systems										
Item	Model	FXCQ20A	FXCQ25A	FXCQ32A	FXCQ40A	FXCQ50A	FXCQ63A	FXCQ80A	FXCQ125A	
Remote controller	Wired					BRC1D52, BRC1E52A/B				
	Infrared	H/P				BRC7CA52				
		C/O					BRC7CA57			
Central remote controller						DCS302C51				
Unified ON/OFF controller						DCS301B51				
Schedule timer						DST301B51				
Wiring adapter for electrical appendices (1)						KRP2A51 ※				
Wiring adapter for electrical appendices (2)						KRP4A51 ※				
External control adapter for outdoor unit (Must be installed on indoor units)						DTA104A61 ※				
Installation box for adapter PCB <small>Note 2</small>						KRP1C96 <small>Note 3, 4</small>				
Remote sensor						KRCS01-4B				
Electrical box with earth terminal (3 blocks)						KJB311A				
Electrical box with earth terminal (2 blocks)						KJB212A				
Noise filter (for electromagnetic interface use only)						KEK26-1A				

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- Notes:
1. A filter chamber is required when installing a high efficiency filter.
 2. Installation box is necessary for each adapter marked ※.
 3. Up to 2 adapters can be fixed for each installation box.
 4. Only 1 installation box can be installed for each indoor unit.

6 Capacity tables

6 - 1 Cooling Capacity Tables

FXCQ-A

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 °CDB		23 °CDB		26 °CDB		27 °CDB		28 °CDB		30 °CDB		32 °CDB	
	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	1.5	1.4	1.8	1.7	2.1	1.9	2.2	1.9	2.2	1.8	2.3	1.7	2.3	1.7
25	1.9	1.7	2.3	2.0	2.6	2.2	2.8	2.3	2.8	2.2	2.9	2.1	3.0	2.1
32	2.4	2.0	2.9	2.3	3.4	2.6	3.6	2.6	3.6	2.6	3.7	2.6	3.8	2.5
40	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.2	4.6	3.1	4.7	3.0	4.8	3.0
50	3.8	3.0	4.5	3.5	5.2	3.9	5.6	3.9	5.7	3.8	5.8	3.6	5.9	3.1
63	4.8	3.9	5.7	4.9	6.6	5.0	7.1	5.0	7.2	5.4	7.4	5.3	7.5	5.9
80	6.1	4.9	7.2	5.7	8.4	6.3	9.0	6.5	9.1	6.3	9.3	6.1	9.5	6.1
125	9.4	7.5	11.3	8.7	13.1	9.7	14.0	9.9	14.2	9.8	14.5	9.5	14.9	9.1

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 binneneenheid.
 - 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 binneneenheid 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 düzeltilmiş 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

FXCQ-A

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
32	4.2	4.2	4.0	3.9	3.7	3.5
40	5.2	5.2	5.0	4.8	4.7	4.4
50	6.6	6.6	6.3	6.1	5.9	5.5
63	8.4	8.4	8.0	7.7	7.5	7.0
80	10.5	10.5	10.0	9.7	9.4	8.7
125	16.8	16.8	16.0	15.5	15.0	13.9

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

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 - 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 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

FXCQ-A

		Capacity correction factor Te = 9°C										
		14.0 °CWB		16.0 °CWB		18.0 °CWB		20.0 °CWB		22.0 °CWB		24.0 °CWB
Indoor air temperature		20.0 °CDB	23.0 °CDB	26.0 °CDB	27.0 °CDB	28.0 °CDB	30.0 °CDB	32.0 °CDB				
FXCQ20	TC	0.667	0.697	0.748	0.767	0.788	0.817	0.844				
	SHF	1.172	1.184	1.130	1.106	1.084	1.061	1.039				
FXCQ25	TC	0.681	0.690	0.741	0.766	0.787	0.817	0.842				
	SHF	1.147	1.192	1.135	1.108	1.086	1.061	1.041				
FXCQ32	TC	0.681	0.690	0.741	0.766	0.787	0.817	0.842				
	SHF	1.147	1.192	1.135	1.108	1.086	1.061	1.041				
FXCQ40	TC	0.671	0.687	0.748	0.772	0.792	0.821	0.854				
	SHF	1.167	1.191	1.128	1.101	1.082	1.059	1.035				
FXCQ50	TC	0.663	0.690	0.753	0.777	0.795	0.831	0.857				
	SHF	1.177	1.185	1.123	1.097	1.081	1.054	1.034				
FXCQ63	TC	0.682	0.692	0.740	0.763	0.784	0.815	0.840				
	SHF	1.144	1.191	1.138	1.111	1.088	1.061	1.042				
FXCQ80	TC	0.707	0.689	0.752	0.776	0.795	0.830	0.856				
	SHF	1.166	1.187	1.124	1.098	1.080	1.055	1.035				
FXCQ125	TC	0.683	0.691	0.753	0.776	0.796	0.831	0.855				
	SHF	1.132	1.180	1.121	1.096	1.077	1.054	1.043				

3D079901

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

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- 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 .
 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.
 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

6 Capacity tables

6 - 3 Capacity Correction Factor

FXCQ-A

		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	
FXCQ20	TC	0.536	0.552	0.578	0.612	0.641	0.691	0.732	
	SHF	1.172	1.273	1.294	1.233	1.187	1.125	1.086	
FXCQ25	TC	0.546	0.559	0.570	0.603	0.637	0.690	0.730	
	SHF	1.147	1.250	1.306	1.245	1.192	1.127	1.089	
FXCQ32	TC	0.546	0.559	0.570	0.603	0.637	0.690	0.730	
	SHF	1.147	1.250	1.306	1.245	1.192	1.127	1.089	
FXCQ40	TC	0.540	0.548	0.571	0.611	0.645	0.697	0.744	
	SHF	1.167	1.273	1.300	1.231	1.182	1.122	1.080	
FXCQ50	TC	0.534	0.543	0.578	0.619	0.651	0.707	0.755	
	SHF	1.177	1.282	1.287	1.221	1.176	1.117	1.074	
FXCQ63	TC	0.546	0.562	0.571	0.604	0.633	0.688	0.727	
	SHF	1.144	1.245	1.307	1.246	1.198	1.129	1.091	
FXCQ80	TC	0.538	0.547	0.576	0.617	0.650	0.706	0.753	
	SHF	1.166	1.270	1.289	1.223	1.177	1.117	1.076	
FXCQ125	TC	0.549	0.561	0.579	0.617	0.651	0.708	0.751	
	SHF	1.132	1.228	1.280	1.218	1.171	1.113	1.084	

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

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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 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. ооутимого 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 .

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

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

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

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

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

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

Ооутимая производительность (SHF): SHF для режима с высоким коэфф. ооутимого 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"

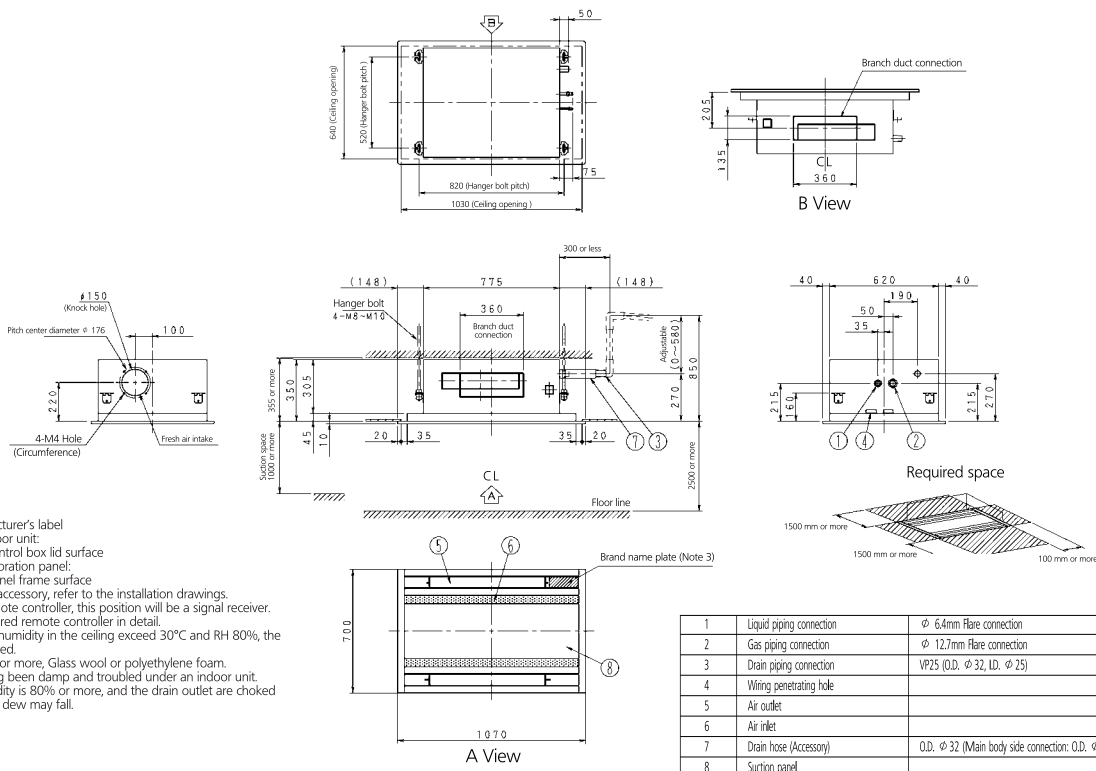
SHF değeri 1'den büyükse, SHF değeri "1" kabul edilmelidir

7 Dimensional drawings

7 - 1 Dimensional Drawings

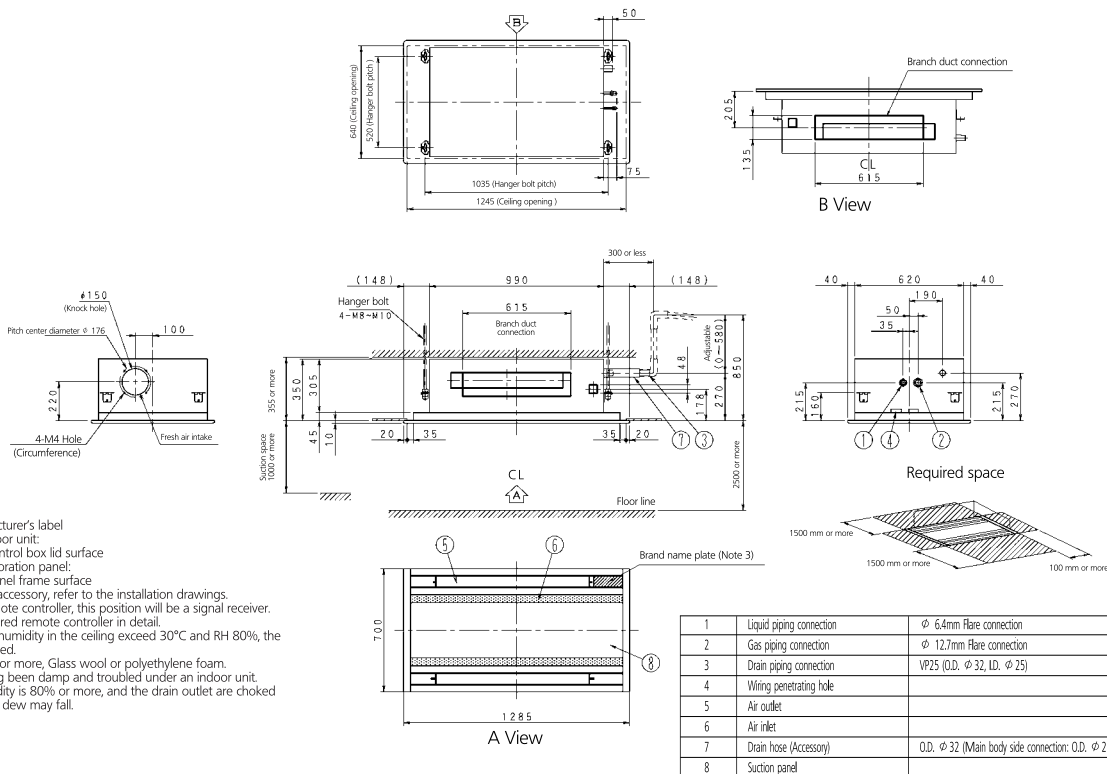
7

FXCQ20-40A



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FXCQ50A

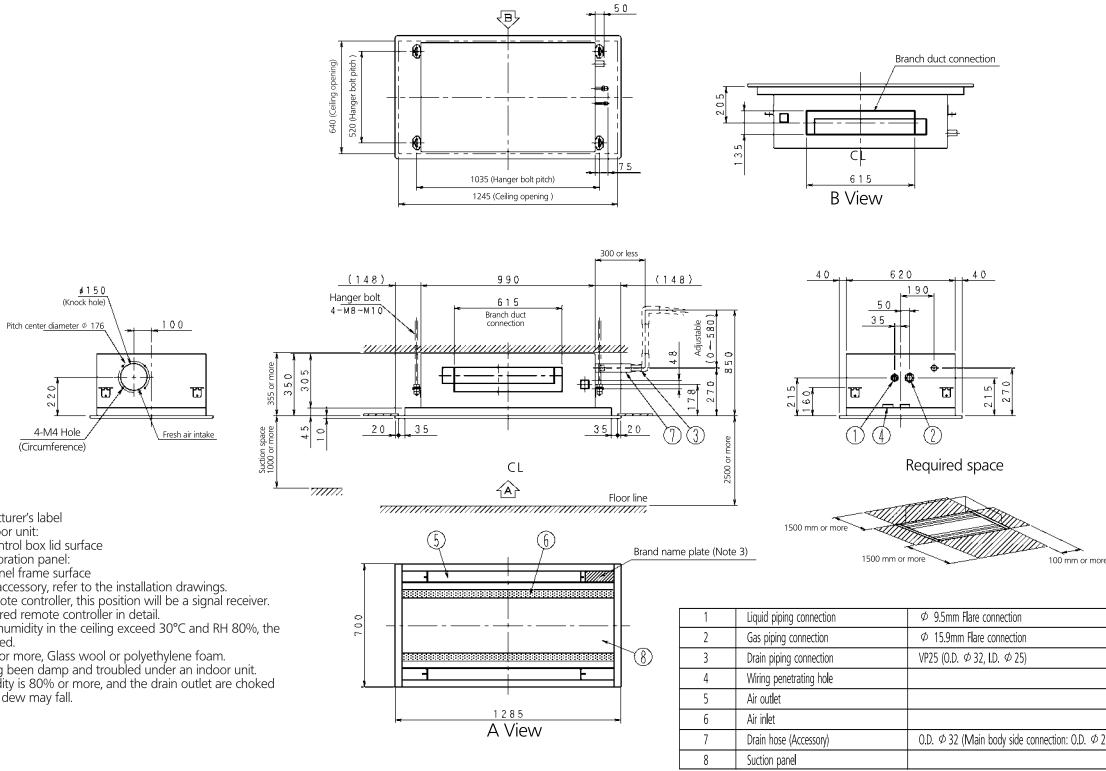


3D079629

7 Dimensional drawings

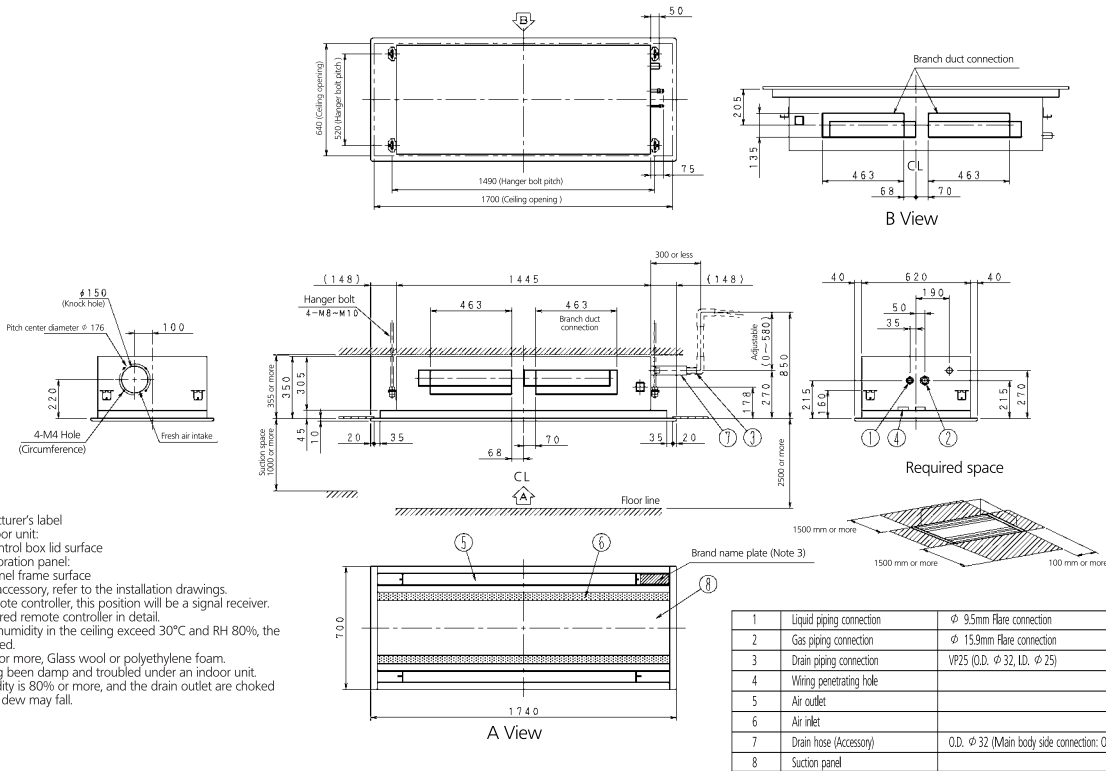
7 - 1 Dimensional Drawings

FXCQ63A



3D079630

FXCQ80-125A



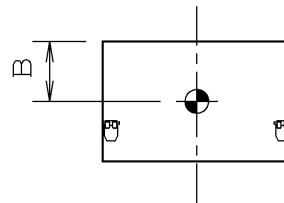
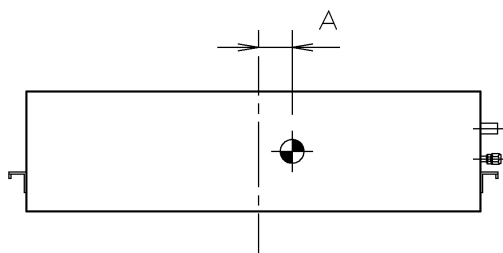
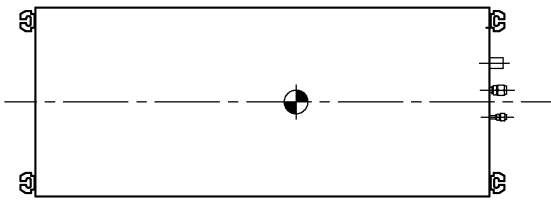
3D079631

8 Centre of gravity

8 - 1 Centre of Gravity

8

FXCQ-A

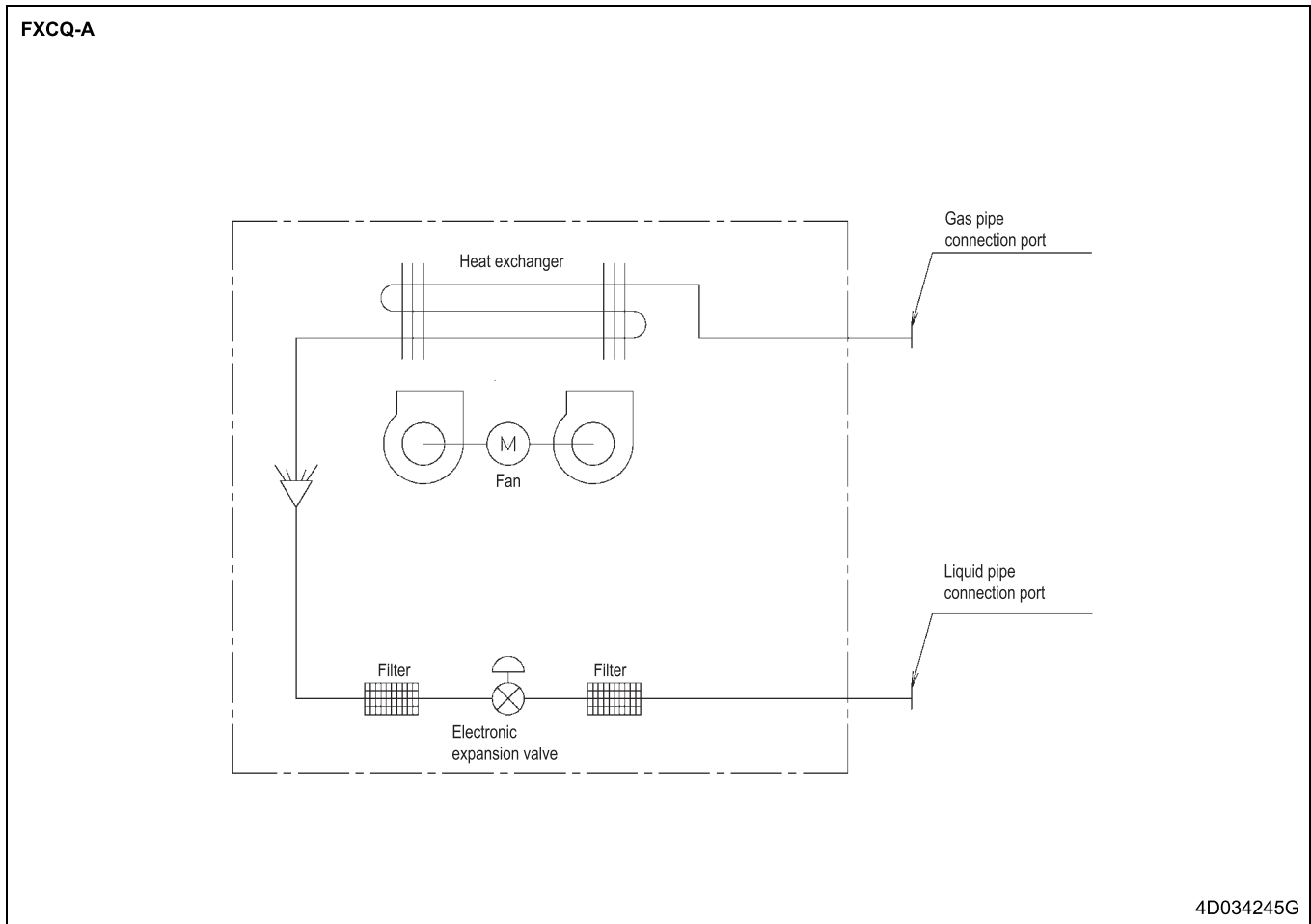


Model	A	B
FXCQ20•25•32•40A	30	120
FXCQ50•63A	40	120
FXCQ80•125A	15	110

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9 Piping diagrams

9 - 1 Piping Diagrams



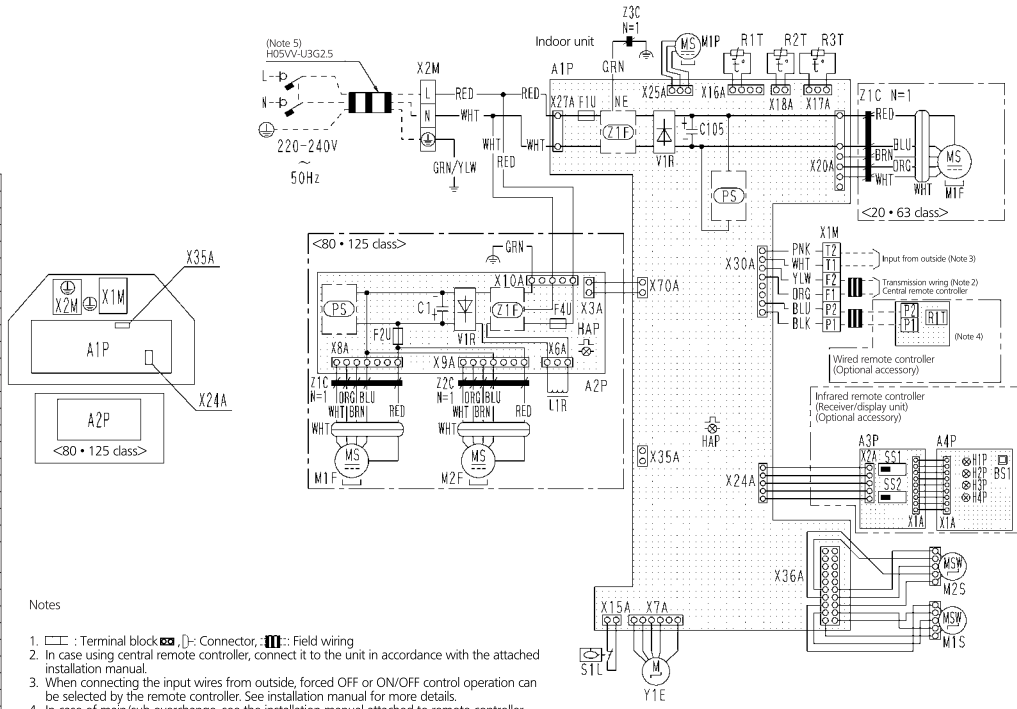
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

10

FXCQ-A

Indoor unit	
A1P•A2P	Printed circuit board
C105•C1	Capacitor
F1U	Fuse (T3.15A, 250V)
F2U	Fuse (T5A, 250V)
F4U	Fuse (T6.3A, 250V)
HAP	Flashing lamp (service monitor-green) (A1P/A2P)
L1R	Reactor
M1F•M2F	Motor (indoor fan)
M1P	Motor (drain pump)
M1S•M2S	Motor (swing blade)
PS	Power supply circuit (A1P/A2P)
R1T	Thermistor (air)
R2T•R3T	Thermistor (coil)
S1L	Reset switch
V1R	Diode bridge
X1M•X2M	Terminal block
Y1E	Electronic expansion valve
Z1C	Ferrite core
Z2C	Ferrite core
Z3C	Ferrite core
Z1F	Noise filter (A1P/A2P)
Infrared remote controller (Receiver/display unit)	
A3P•A4P	Printed circuit board
BS1	Push button switch (ON/OFF)
H1P	Pilot lamp (on-red)
H2P	Pilot lamp (timer-green)
H3P	Pilot lamp (filter sign-red)
H4P	Pilot lamp (defrost-orange)
SS1	Selector switch (main/sub)
SS2	Selector switch (infrared address set)
Connector for optional parts	
X24A	Connector (Infrared remote controller)
X35A	Connector (Power supply for adapter)

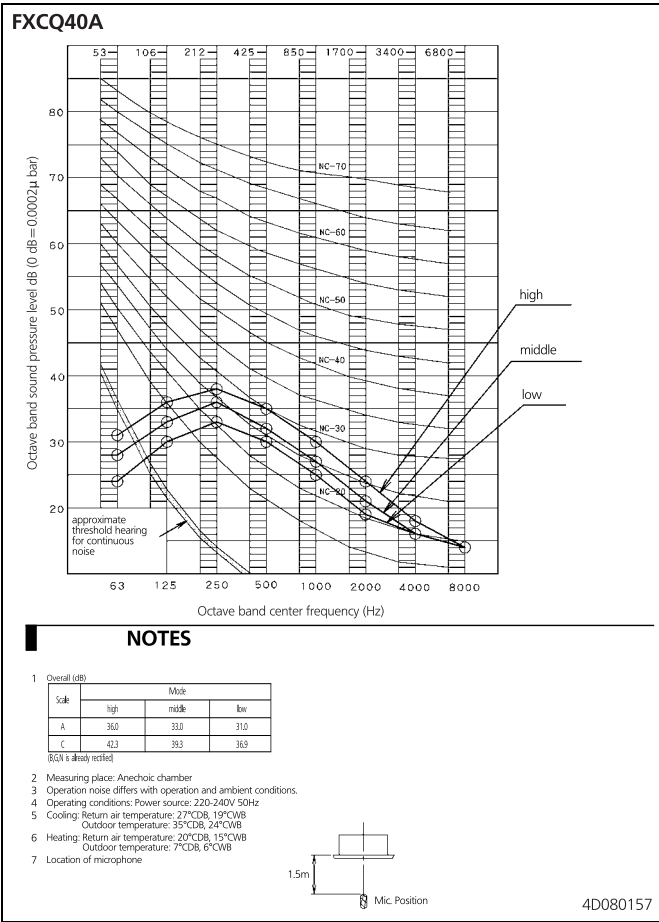
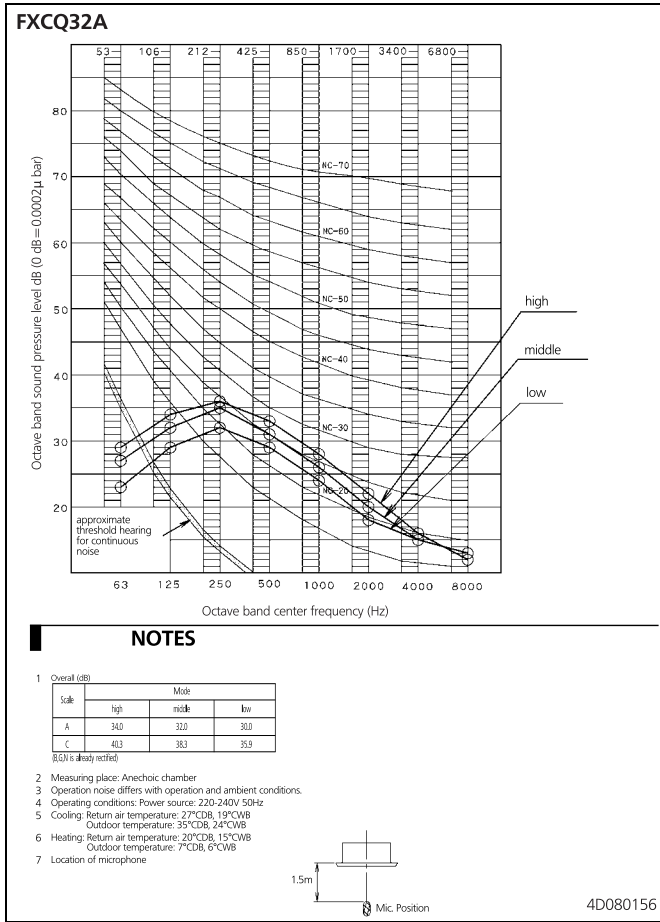
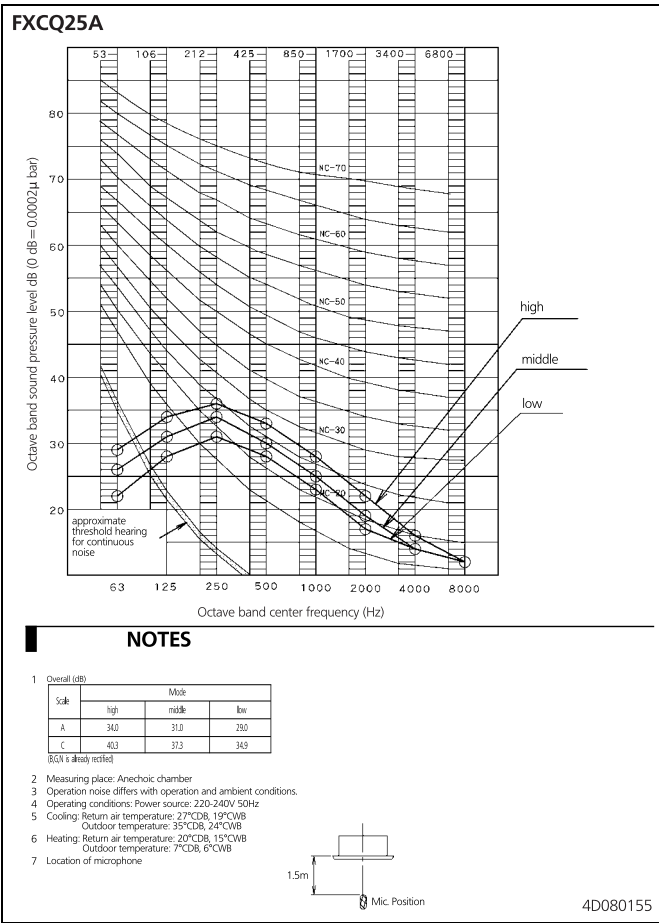
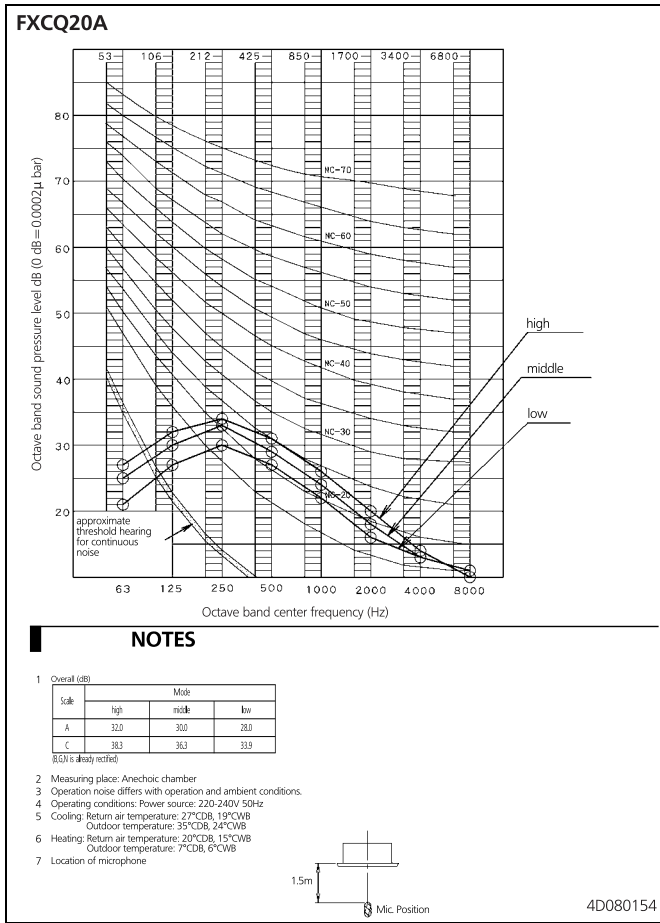


- Notes
- Terminal block (□): Connector (□): Field wiring
 - In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
 - When connecting the input wires from outside, forced OFF or ON/OFF control operation can be selected by the remote controller. See installation manual for more details.
 - In case of main/sub overcharge, see the installation manual attached to remote controller.
 - Shows only in case of protected pipes, use HO7RN-F in case of no protection.
 - Symbols show as follows: Red: BLK:Black WHT:White YLW:Yellow GRN:Green ORG:Orange BRN:Brown PNK:Pink BLU:Blue.

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11 Sound data

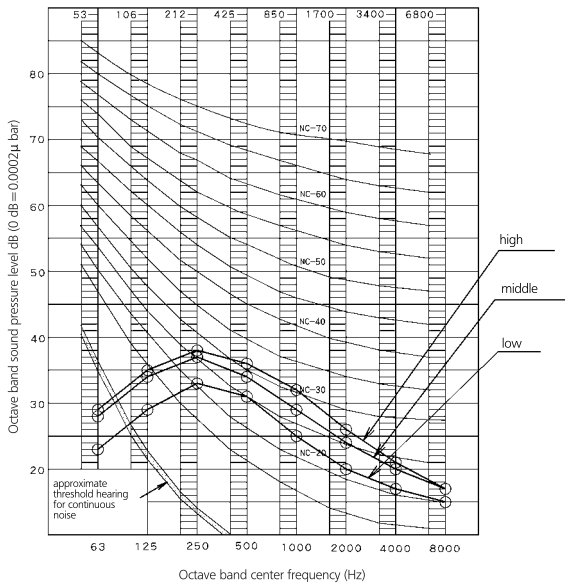
11 - 1 Sound Pressure Spectrum



11 Sound data

11 - 1 Sound Pressure Spectrum

FXCQ50A



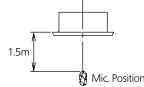
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	37.0	35.0	31.0
C	42.3	40.9	36.5

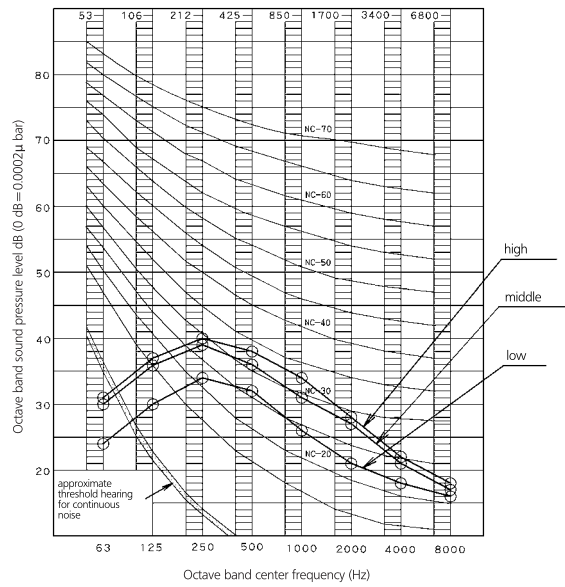
(dB) is already rectified

- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz
- 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



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FXCQ63A



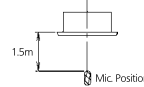
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	39.0	37.0	33.0
C	44.3	42.9	37.6

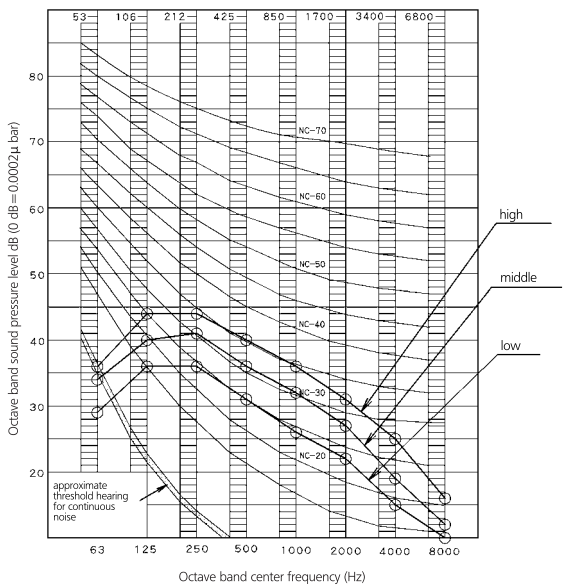
(dB) is already rectified

- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz
- 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



4D080159

FXCQ80A



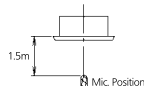
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	42.0	38.0	33.0
C	48.5	44.8	40.2

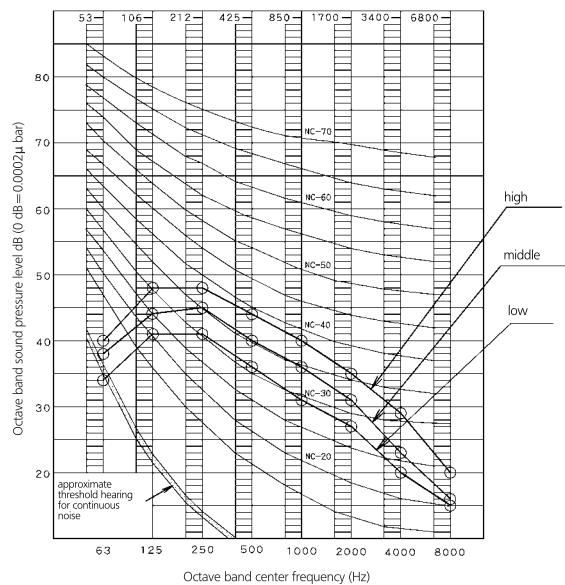
(dB) is already rectified

- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz
- 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



4D080160

FXCQ125A



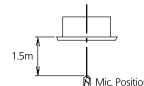
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	46.0	42.0	38.0
C	52.5	48.8	45.2

(dB) is already rectified

- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz
- 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



4D080161



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