

Air Conditioning Technical Data

FXCQ-A



- > FXCQ20AVEB
- > FXCQ25AVEB
- > FXCQ32AVEB
- > FXCQ40AVEB
- > FXCQ50AVEB
- > FXCQ63AVEB

- > FXCQ80AVEB
- > FXCQ125AVEB

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1 Features

Thin, lightweight design installs easily in narrow corridors

- Depth of all units is 620mm, ideal for narrow spaces
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating and there are no air intake grilles visible
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation device is required
- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- Maintenance operations can be performed by removing the front panel
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Standard drain pump with 580mm lift increases flexibility and installation speed



Inverter



Home leave operation



Fan only



Auto cooling-heating changeover



Whisper quiet



Ceiling soiling prevention



Vertical auto swing



Fan speed steps



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Drain pump kit

2 Specifications

2-1 Technical Specifications				FXCQ20A	FXCQ25A	FXCQ32A	FXCQ40A	FXCQ50A	FXCQ63A	FXCQ80A	FXCQ125A	
Cooling capacity	Sensible capacity	Nom.	kW	1.9	2.3	2.6	3.2	3.9	5.0	6.5	9.9	
	Latent capacity	Nom.	kW	0.3	0.5	1.0	1.3	1.7	2.1	2.5	4.1	
	Total 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	Total 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	
Dimensions	Unit	Height	mm	305								
		Width	mm	775				990		1,445		
		Depth	mm	620								
Weight	Unit		kg	19				22	25	33	38	
Casing	Material			Galvanised steel plate								
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		m²	0.334				0.218		0.320			
Stages		Quantity		16								
Face area		m²	-				0.218		0.320			
Fan	Type			Turbo fan								
	Air flow rate - 50Hz	Cooling	High	m³/min	10.5	11.5		12	15	16	26	32
			Medium	m³/min	9	9.5		10.5	13	14	22.5	27.5
			Low	m³/min	7.5	8		8.5	10.5	11.5	18.5	22.5
Fan motor	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	106	
Air filter	Type			Resin net with mold resistance								
Sound power level	Cooling	High	dBA	48	50		52	53	55	58	62	
		Nom.	dBA	46	47	48	49	51	53	54	58	
		Low	dBA	44	45	46	47		48	49	54	
Sound pressure level	Cooling	Medium	dBA	-								
		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								
	GWP			2,087.5								
	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								
Safety devices	Item	01		Fuse								
Control systems	Infrared remote control			BRC7C52								
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52								
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)								

2 Specifications

Standard Accessories : Operation manual;
 Standard Accessories : Installation manual;
 Standard Accessories : Declaration of conformity;
 Standard Accessories : Installation pattern;
 Standard Accessories : Washer for hanger bracket;
 Standard Accessories : Clamp metal;
 Standard Accessories : Drain hose;
 Standard Accessories : Joint insulating material;
 Standard Accessories : Washer clamp;
 Standard Accessories : Sealing material;
 Standard Accessories : Clamps;
 Standard Accessories : Screws;
 Standard Accessories : Insulation piping cover for drain piping;

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	Max.	%		10							
	Min.	%		-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)

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

FXCQ-A

Units				Power Supply		IFM		Input (W)	
Model	Hz	Volts	Voltage range	MCA	MFA	kW	FLA	Cooling	Heating
FXCQ20	50	220-240	Max. 264 Min. 198	0.3	16	0.046	0.2	31	28
FXCQ25				0.3	16	0.046	0.2	39	35
FXCQ32				0.3	16	0.046	0.2	39	35
FXCQ40				0.3	16	0.046	0.2	41	37
FXCQ50				0.4	16	0.046	0.3	59	56
FXCQ63				0.5	16	0.106	0.4	63	60
FXCQ80				0.6	16	0.046 + 0.046	0.5	90	86
FXCQ125				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

NOTES

- Voltage range
Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
- Maximum allowable voltage unbalanced between phase is 2%
- MCA/MFA
MCA = 1.25 x FLA
MFA ≤ 4 x FLA (Next lower standard fuse rating. Min. 16A)
- Select wire size based on the MCA.
- Instead of fuse, use Circuit Breaker.

Minimum Ssc value	kVA	EN61000-3-2 is applied.
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4 Safety device settings

4 - 1 Safety Device Settings

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	---	---	---	---	---	---	---	---
	Fan motor thermal fuse °C	---	---	---	---	---	---	---	---
	Fan motor thermal protector °C	---	---	---	---	---	---	---	---

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5 Options

5 - 1 Options

FXCQ-A

Options

Options		Model							
Item		FXCQ20	FXCQ25	FXCQ32	FXCQ40	FXCQ50	FXCQ63	FXCQ80	FXCQ125
Decoration panel		BYBCQ40HW1				BYBCQ63HW1		BYBCQ125HW1	
Filter related	High efficiency filter 65% (note 1)	KAFP532B50				KAFP532B80		KAFP532B160	
	High efficiency filter 90% (note 1)	KAFP533B50				KAFP533B80		KAFP533B160	
	Filter chamber for bottom suction	KDDFP53B50				KDDFP53B80		KDDFP53B160	
	Long life replacement filter	KAFP531B50				KAFP531B80		KAFP531B160	

Control systems

Control systems			Model							
Item			FXCQ20	FXCQ25	FXCQ32	FXCQ40	FXCQ50	FXCQ63	FXCQ80	FXCQ125
Remote control	Wired		BRC1D52, BRC1E52A/B							
	Infrared	H/P	BRC7CA52							
		C/O	BRC7CA57							
Simplified remote control (with operation mode selector button)			BRC2E52C7 (note 5)							
Simplified remote control (without operation mode selector button)			BRC3E52C7 (note 5)							
Central remote control			DCS302C51							
Unified on/off control			DCS301B51							
Schedule timer			DST301B51							
Wiring adapter for electrical appendices (1)			KRP2A51 *							
Wiring adapter for electrical appendices (2)			KRP4AA51 *							
External control adapter for outdoor unit (must be installed on indoor units).			DTA104A61 *							
Installation box for adapter PCB. (note 2)			KRP1C96 (note 3, note 4)							
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							
Digital input adapter			BRP7A51 * (note 6)							

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.
5. 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.
6. Only possible in combination with simplified remote control BRC2/3E52C7.

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6 Capacity tables

6 - 1 Cooling Capacity Tables

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Cooling Capacity

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

Unit size	Indoor air temp.													
	14.0 °CWB		16.0 °CWB		18.0 °CWB		19.0 °CWB		20.0 °CWB		22.0 °CWB		24.0 °CWB	
	20 °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 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 için kapasite gerekliliği tablodaki belirtilenden farklı olacaktır.
 - В случае, если реальные условия отличаются от проектных условий работы, используемых при выборе системы, фактические характеристики устанавливаемого в помещении оборудования будут отличаться от указанных в таблице вследствие изменения температуры воздуха снаружи и показателя нагрузки.
- In this case, use the ability table for the indoor equipment selected and correct for the ratio of change in ability.
 - Gebruik in dat geval de vermogenstabel van de gekozen binneninstallatie en kies het juiste vermogen.
 - Le cas échéant, utiliser le tableau de capacité de l'équipement intérieur sélectionner et corriger le rapport de modification de capacité.
 - Verwenden Sie in diesem Fall die Fähigkeit für die ausgewählte Innenanlage und korrigieren Sie das Verhältnis der Änderung in der Fähigkeit.
 - En este caso, utilice la tabla de capacidades del equipo interior seleccionado y corrija la relación de cambio en capacidad.
 - In questo caso, usare la tabella delle capacità per le apparecchiature interne selezionate ed apportare le modifiche del caso in base alla percentuale di cambiamento di capacità.
 - Σε αυτή την περίπτωση χρησιμοποιήστε τον πίνακα δυνατοτήτων για τον επιλεγμένο εσωτερικό εξοπλισμό και διορθώστε για την αναλογία αλλαγής στη δυνατότητα.
 - Bu durumda, seçilen iç ekipman için kapasite tablosunu kullanın ve kapasitedeki değişim oranına göre düzeltme yapın.
 - В этом случае используйте таблицу характеристик выбранного устанавливаемого в помещении оборудования и внесите необходимую поправку на их изменение.

6 Capacity tables

6 - 2 Heating Capacity Tables

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

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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.
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 - 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.
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 - Sistem seçiminin sonra tasarım gerekleri nedeniyle koşulların değişmesi durumunda, dış hava sıcaklığı ve yük faktöründeki değişiklikler nedeniyle iç ekipmanın gerçek çalışma kapasitesi tablodaki belirtilenden farklı olacaktır.
 - В случае, если реальные условия отличаются от проектных условий работы, используемых при выборе системы, фактические характеристики устанавливаемого в помещении оборудования будут отличаться от указанных в таблице вследствие изменения температуры воздуха снаружи и показателя нагрузки.
- In this case, use the ability table for the indoor equipment selected and correct for the ratio of change in ability.
 - Gebruik in dat geval de vermogenstabel van de gekozen binneninstallatie en kies het juiste vermogen.
 - Le cas échéant, utiliser le tableau de capacité de l'équipement intérieur sélectionner et corriger le rapport de modification de capacité.
 - Verwenden Sie in diesem Fall die Fähigkeit für die ausgewählte Innenanlage und korrigieren Sie das Verhältnis der Änderung in der Fähigkeit.
 - En este caso, utilice la tabla de capacidades del equipo interior seleccionado y corrija la relación de cambio en capacidad.
 - In questo caso, usare la tabella delle capacità per le apparecchiature interne selezionate ed apportare le modifiche del caso in base alla percentuale di cambiamento di capacità.
 - Σε αυτή την περίπτωση χρησιμοποιήστε τον πίνακα δυνατοτήτων για τον επιλεγμένο εσωτερικό εξοπλισμό και διορθώστε για την αναλογία αλλαγής στη δυνατότητα.
 - Bu durumda, seçilen iç ekipman için kapasite tablosunu kullanın ve kapasitedeki değişim oranına göre düzeltilme yapın.
 - В этом случае используйте таблицу характеристик выбранного устанавливаемого в помещении оборудования и внесите необходимую поправку на их изменение.

7 - 1 Dimensional Drawings

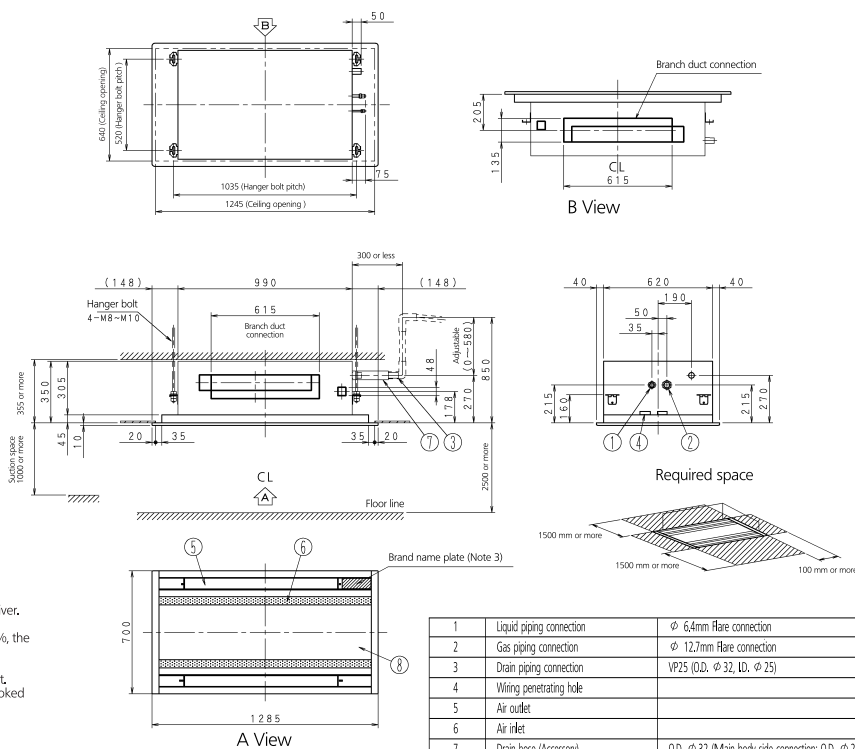
[illegible]

3D079628

Technical drawing of the front view of the test cell. The drawing shows a rectangular block with a central circular feature. The following dimensions and labels are provided:

- $\phi 150$ (Knock hole)
- Pitch center diameter $\phi 176$
- 100 (Distance from center to right edge)
- 220 (Distance from bottom edge to center)
- 4-M4 Hole (Circumference)
- Fresh air intake

1. Sticking location for manufacturer's label
Manufacturer's label for indoor unit:
Suction panel inner side's control box lid surface
Manufacturer's label for decoration panel:
Suction panel inner side's panel frame surface
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using infrared remote controller, this position will be a signal receiver.
Refer to the drawing of infrared remote controller in detail.
4. When the temperature and humidity in the ceiling exceed 30°C and RH 80%, the additional insulation is required.
Insulation: Thickness 10mm or more, Glass wool or polyethylene foam.
5. Please do not place the unit being bent and troubled under an indoor unit.
When the case water humidity is 80% or more, and the drain outlet are choked up or the air filter are dirty, dew may fall.

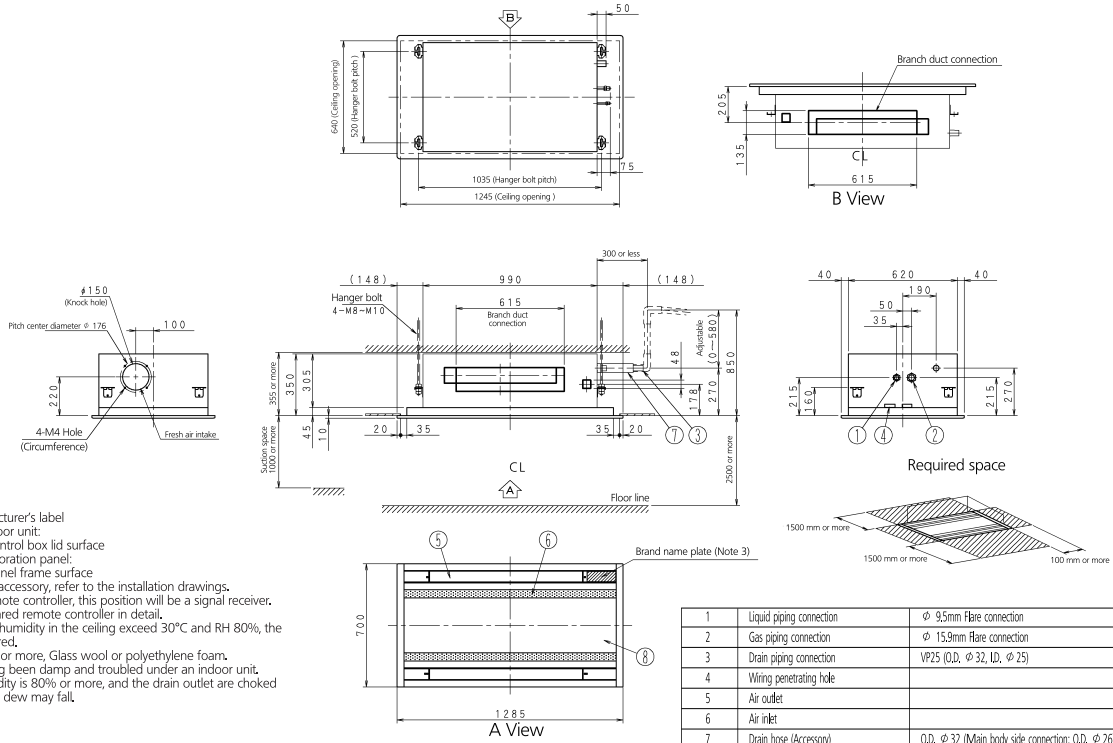


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7 Dimensional drawings

7 - 1 Dimensional Drawings

FXCQ63A

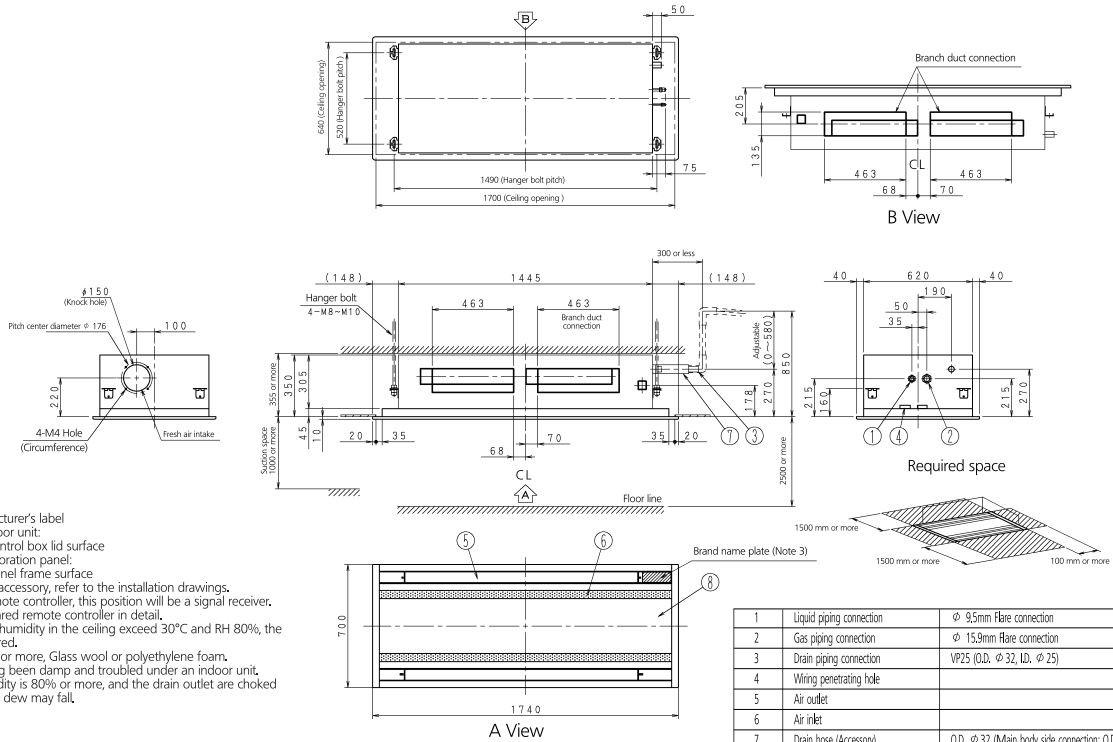


Notes:

1. Sticking location for manufacturer's label
Manufacturer's label for indoor unit:
Suction panel inner side's control box lid surface
Manufacturer's label for decoration panel:
Suction panel inner side's panel frame surface
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using infrared remote controller, this position will be a signal receiver.
Refer to the drawing of infrared remote controller in detail.
4. When the temperature and humidity in the ceiling exceed 30°C and RH 80%, the additional insulation is required.
Insulation: Thickness 10mm or more, Glass wool or polyethylene foam.
5. Please do not place the thing been damp and troubled under an indoor unit.
When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

3D079630

FXCQ80-125A



Notes:

1. Sticking location for manufacturer's label
Manufacturer's label for indoor unit:
Suction panel inner side's control box lid surface
Manufacturer's label for decoration panel:
Suction panel inner side's panel frame surface
2. When installing an optional accessory, refer to the installation drawings.
3. In case of using infrared remote controller, this position will be a signal receiver.
Refer to the drawing of infrared remote controller in detail.
4. When the temperature and humidity in the ceiling exceed 30°C and RH 80%, the additional insulation is required.
Insulation: Thickness 10mm or more, Glass wool or polyethylene foam.
5. Please do not place the thing been damp and troubled under an indoor unit.
When the case where humidity is 80% or more, and the drain outlet are choked up and the air filter are dirty, dew may fall.

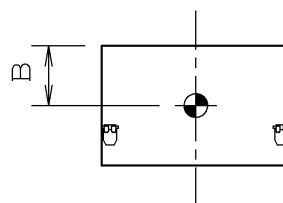
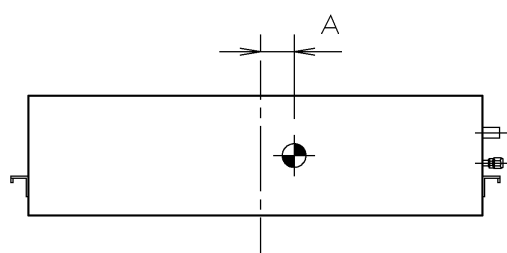
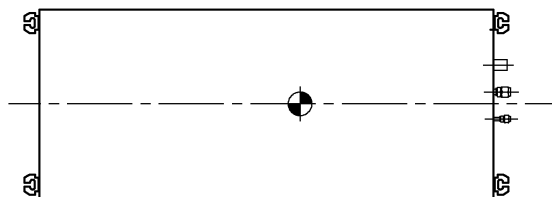
3D079631

8 Centre of gravity

8 - 1 Centre of Gravity

8

FXCQ-A

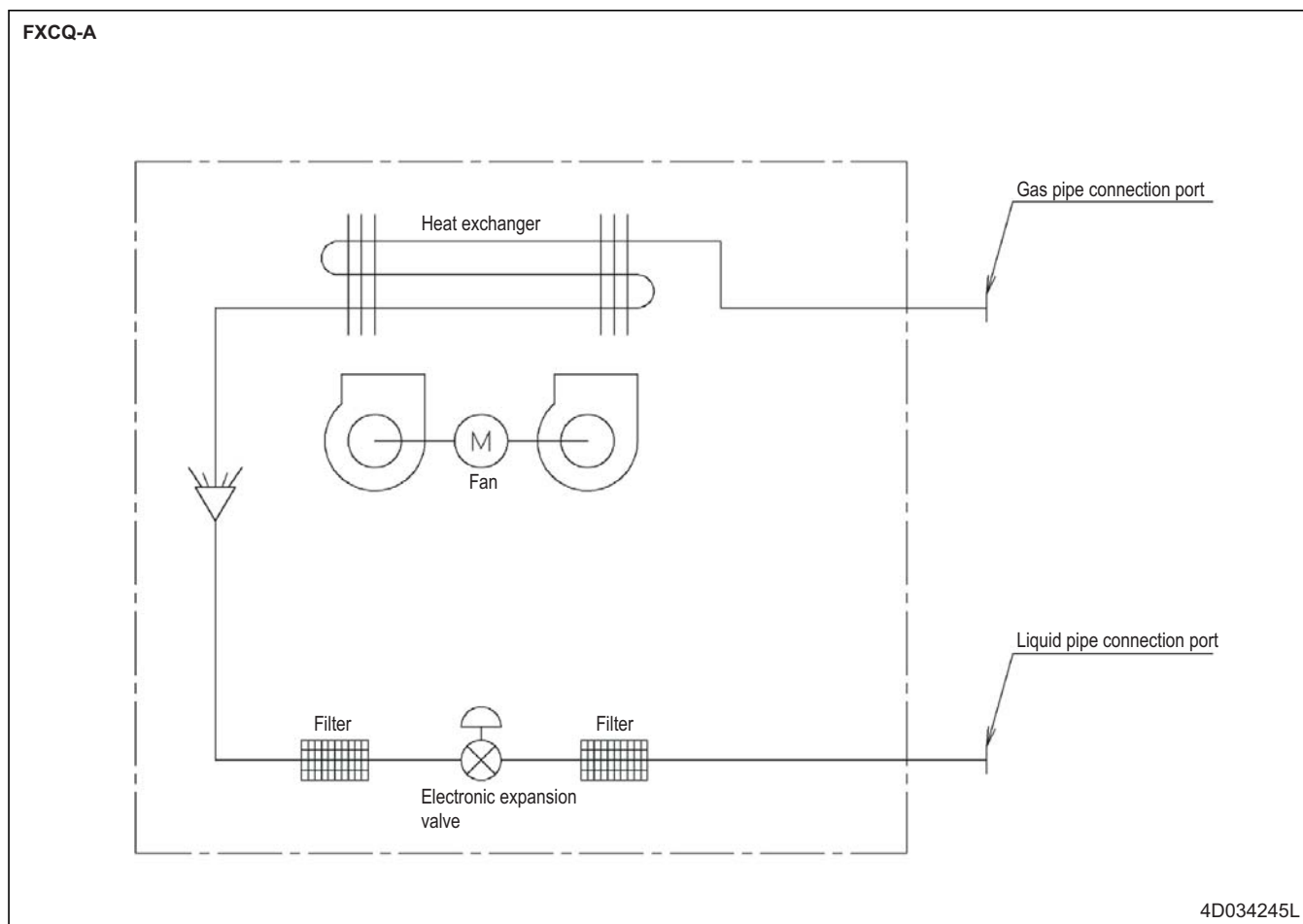


Model	A	B
FXCQ20•25•32•40A	30	120
FXCQ50•63A	40	120
FXCQ80•125A	15	110

4D080138

9 Piping diagrams

9 - 1 Piping Diagrams



10 Wiring diagrams

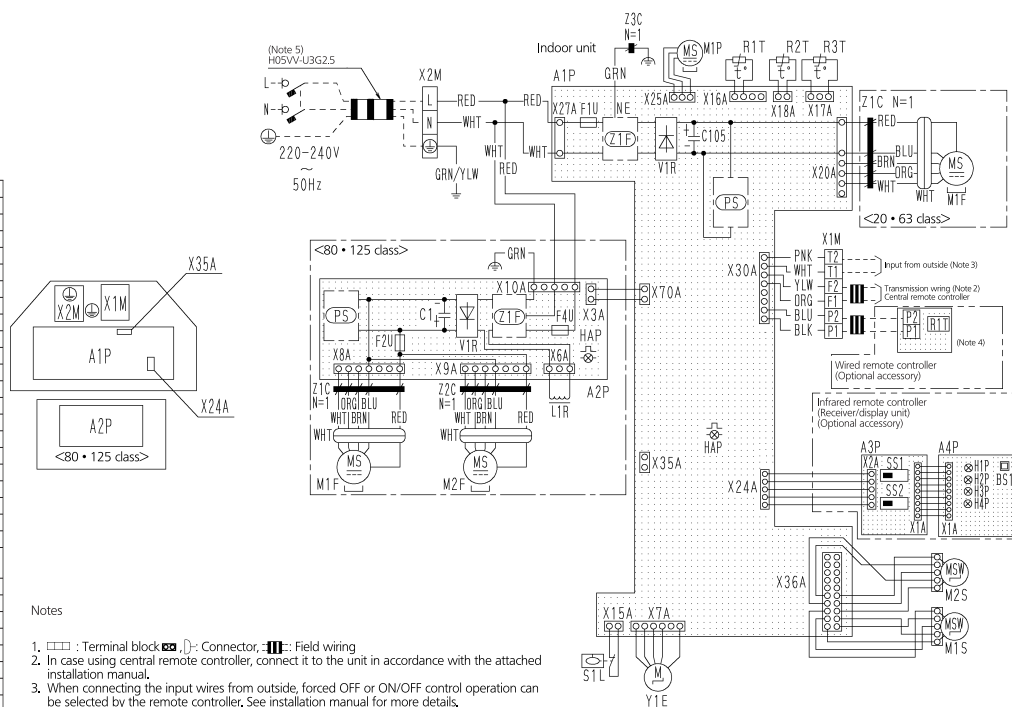
10 - 1 Wiring Diagrams - Single Phase

FXCQ-A

Indoor unit	
A1P~A2P	Printed circuit board
C105~C1	Capacitor
F1U	Fuse (1.15A, 250V)
F2U	Fuse (1.5A, 250V)
F4U	Fuse (1.63A, 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)
P1S	Power supply circuit (A1P,A2P)
R1T	Thermistor (air)
R2T~R3T	Thermistor (coil)
S1L	Float 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
B51	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)
S51	Selector switch (main/sub)
S52	Selector switch (infrared address set)

Connector for optional parts	
X24A	Connector (Infrared remote controller)
X35A	Connector (Power supply for adapter)



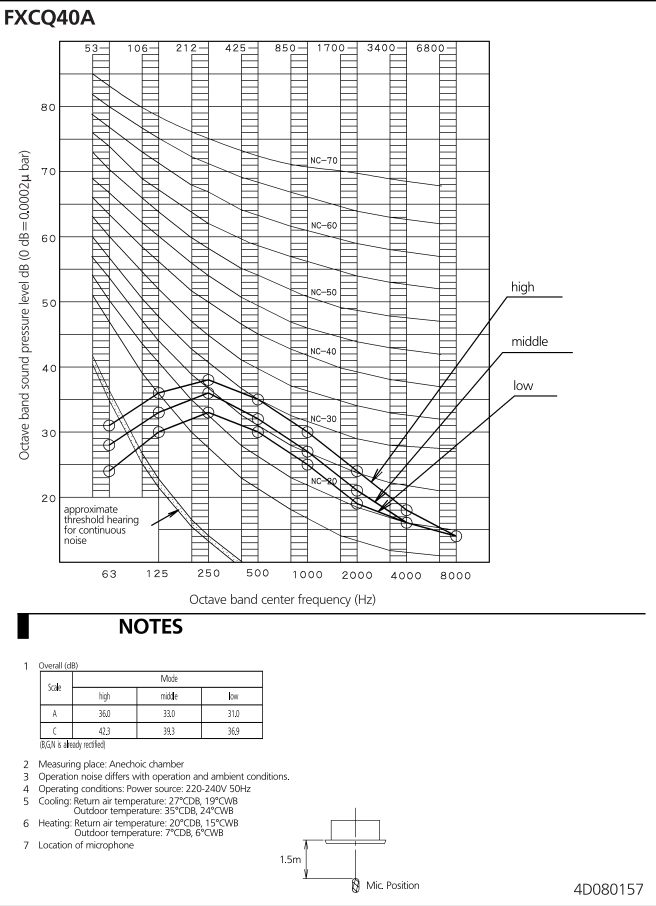
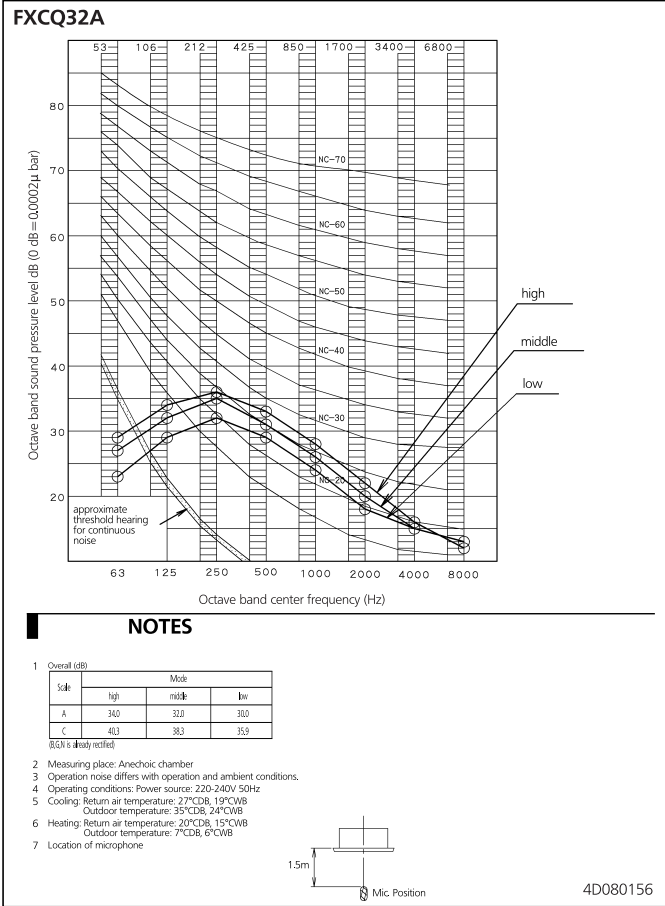
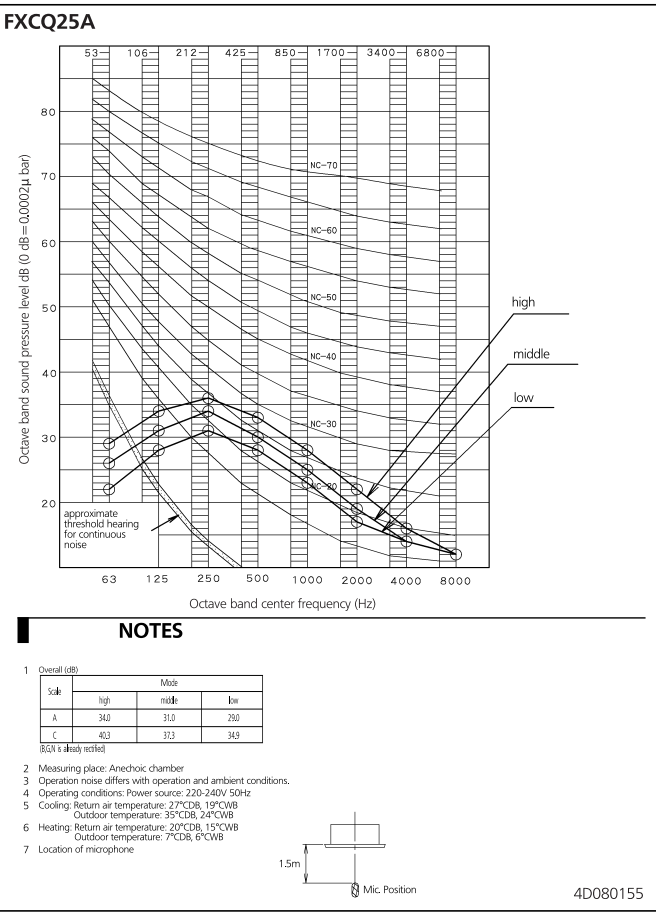
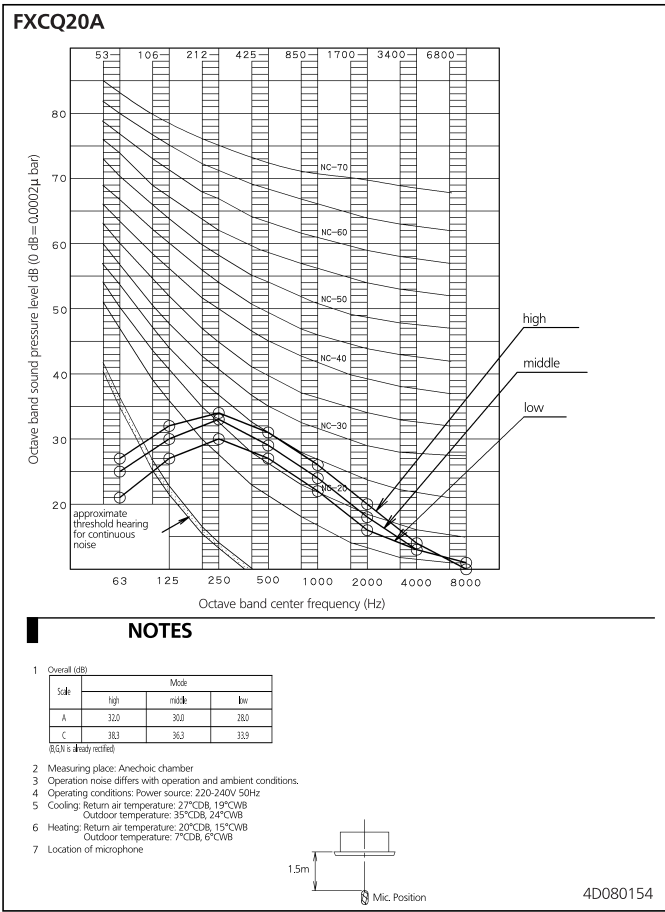
Notes

1.  : Terminal block  : Connector,  : Field wiring
2. In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
3. 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.
4. In case of main/sub overcharge, see the installation manual attached to remote controller.
5. Show only in case of protected pipes, use HO7RN in case of no protection.
6. 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

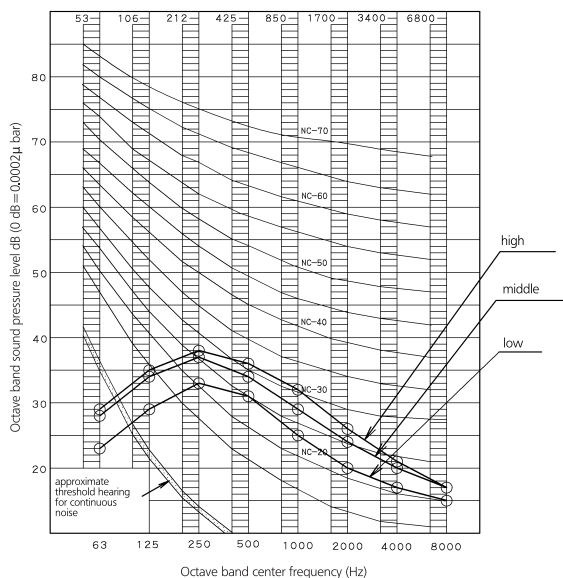


11 Sound data

11 - 1 Sound Pressure Spectrum

11

FXCQ50A

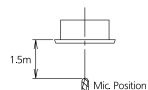


NOTES

- Overall (dB)

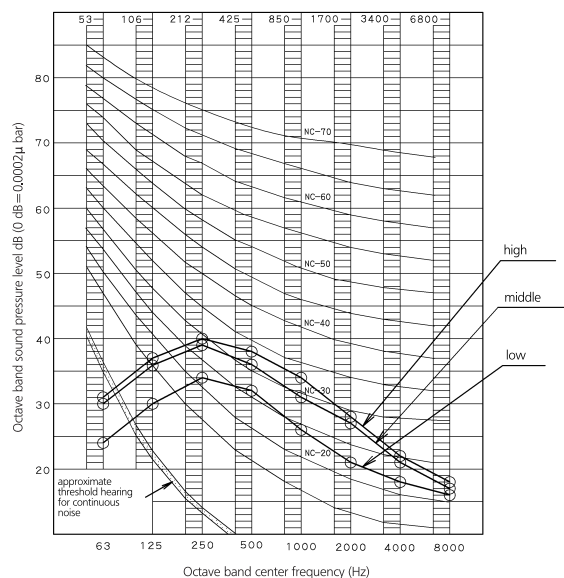
Scale	Mode		
	high	middle	low
A	37.0	35.0	31.0
C	42.3	40.9	36.5

(BCH 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

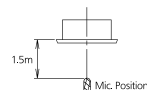


NOTES

- Overall (dB)

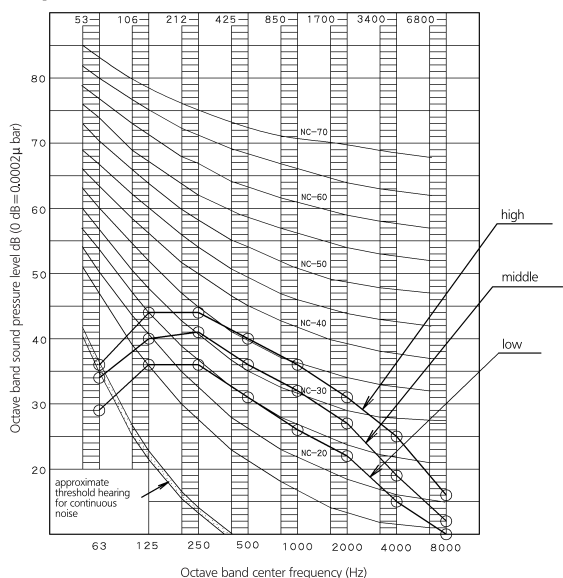
Scale	Mode		
	high	middle	low
A	39.0	37.0	33.0
C	44.3	42.9	37.6

(BCH 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

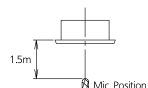


NOTES

- Overall (dB)

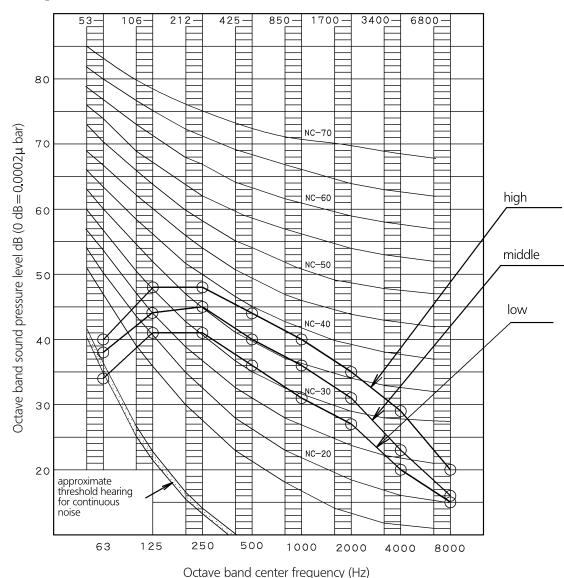
Scale	Mode		
	high	middle	low
A	42.0	38.0	33.0
C	48.5	44.8	40.2

(BCH 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

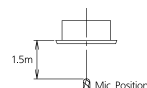


NOTES

- Overall (dB)

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

(BCH 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



Daikin Europe N.V. Naamloze Vennootschap - Zandvoordestraat 300, B-8400 Oostende - Belgium - www.daikin.eu - BE 0412 120 336 - RPR Oostende



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