DAIKIN

Air Conditioning

Technical Data

2-way blow ceiling mounted cassette

EEDEN14-204

FXCQ-A

TABLE OF CONTENTS

FXCQ-A

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: possibility to adapt the room layout by fixing the position of each flap individually
- Easy to install: depth of all units is 600mm
- Maintenance operations can be performed by removing the front panel
- Standard drain pump with 500mm lift

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	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			m²	0.334				0.218		0.320	
	Stages	Quantity			16							
Heat exchanger 2	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
			Nom.	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	-						46.000	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 : Clamps;
Standard Accessories : Washer clamp;
Standard Accessories : Sealing material;
Standard Accessories : Joint insulating material;
Standard Accessories : Washer for hanger bracket;
Standard Accessories : Clamp metal;
Standard Accessories : Drain hose;
Standard Accessories : Declaration of conformity;
Standard Accessories : Installation pattern;
Standard Accessories : Installation manual;

2 Specifications

Standard Accessories : Operation manual;
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	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

Units				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 x FLA
MFA ≧ 4 x 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

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

Item		Model	FXCQ20A	FXCQ25A	FXCQ32A	FXCQ40A	FXCQ50A	FXCQ63A	FXCQ80A	FXCQ125A
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

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 Note 2			KRP1C96 Note 3, 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							

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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

1
- 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.

2
- 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 seçiminden 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.

3
- 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

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

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- Эта таблица предназначена для выбора устанавливаемого в помещении оборудования.

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- 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.
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- 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.
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- 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 - 3 Capacity Correction Factor

FXCQ-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
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

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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_t 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_t 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_t 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_t 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_t 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_t 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_t 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_t 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_t 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_t 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_t 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_t 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_t 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_t 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_t 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_t 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_t 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_t düzeltme faktörü, 29/19 °C KT/°C YT iç ortam tasarım basıncına bağlı olarak her bir iç ünite tipi için Te = 9°C TC oranına karşılık gelir

6 Capacity tables

6 - 3 Capacity Correction Factor

FXCQ-A

		Capacity correction factor for Te = 11°C						
		20°CDB	23°CDB	26°CDB	27°CDB	28°CDB	30°CDB	32°CDB
		14°CWB	16°CWB	18°CWB	19°CWB	20°CWB	22°CWB	24°CWB
20	TC ratio	0,536	0,552	0,578	0,612	0,641	0,691	0,732
	SHF ratio	1,172	1,273	1,294	1,233	1,187	1,125	1,086
25	TC ratio	0,546	0,559	0,570	0,603	0,637	0,690	0,730
	SHF ratio	1,147	1,250	1,306	1,245	1,192	1,127	1,089
32	TC ratio	0,546	0,559	0,570	0,603	0,637	0,690	0,730
	SHF ratio	1,147	1,250	1,306	1,245	1,192	1,127	1,089
40	TC ratio	0,540	0,548	0,571	0,611	0,645	0,697	0,744
	SHF ratio	1,167	1,273	1,300	1,231	1,182	1,122	1,080
50	TC ratio	0,534	0,543	0,578	0,619	0,651	0,707	0,755
	SHF ratio	1,177	1,282	1,287	1,221	1,176	1,117	1,074
63	TC ratio	0,546	0,562	0,571	0,604	0,633	0,688	0,727
	SHF ratio	1,144	1,245	1,307	1,246	1,198	1,129	1,091
80	TC ratio	0,538	0,547	0,576	0,617	0,650	0,706	0,753
	SHF ratio	1,166	1,270	1,289	1,223	1,177	1,117	1,076
125	TC ratio	0,549	0,561	0,579	0,617	0,651	0,708	0,751
	SHF ratio	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

How to use this table - *So verwenden Sie diese Tabelle* - Πώς θα χρησιμοποιήσετε αυτό τον πίνακα - *Cómo utilizar esta tabla* - Utilisation de ce tableau - *Come utilizzare questa tabella* - Gebruik van deze tabel - Как пользоваться этой таблицей - *Bu tablo nasıl kullanılmalı?:*

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. ощутимого охлаждения = Общая производительность для нормального режима, таблица X коэфф. TC.
   Kapasite: Yüksek algı modu için toplam kapasite = Normal kapasite tablosundaki toplam kapasite değeri x TC oranı.

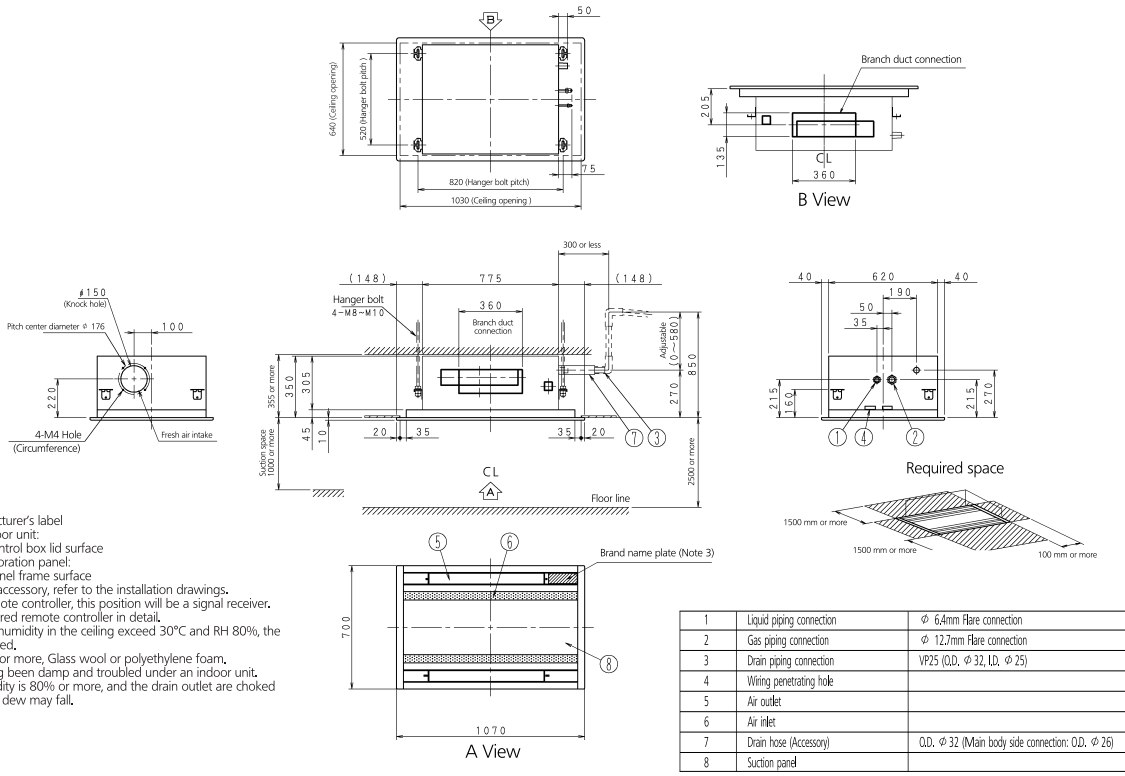
2. Sensible capacity (SHF): SHF for High sensible mode = SHF for normal capacity table X SHF ratio .
   Fühlbare Leistung (SHF): SHF für hochfühlbaren Leistungsmodus = SHF für normale Leistungstabelle x SHF-Verhältnis.
   Αισθητή απόδοση (SHF): SHF για λειτουργία υψηλής ευαισθησίας = SHF για πίνακα κανονικών 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.
   Ощутимая производительность (SHF): SHF для режима с высоким коэфф. ощутимого охлаждения = SHF для нормального режима, таблица X коэфф. SHF.
   Algılanabilir kapasite (SHF): Yüksek algı modu için SHF = Normal kapasite tablosundaki SHF değeri x SHF oranı.

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

FXCQ20-40A



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.

1	Liquid piping connection	ϕ 6,4mm Flare connection
2	Gas piping connection	ϕ 12,7mm Flare connection
3	Drain piping connection	VP25 (O.D. ϕ 32, I.D. ϕ 25)
4	Wiring penetrating hole	
5	Air outlet	
6	Air inlet	
7	Drain hose (Accessory)	O.D. ϕ 32 (Main body side connection: O.D. ϕ 26)
8	Suction panel	

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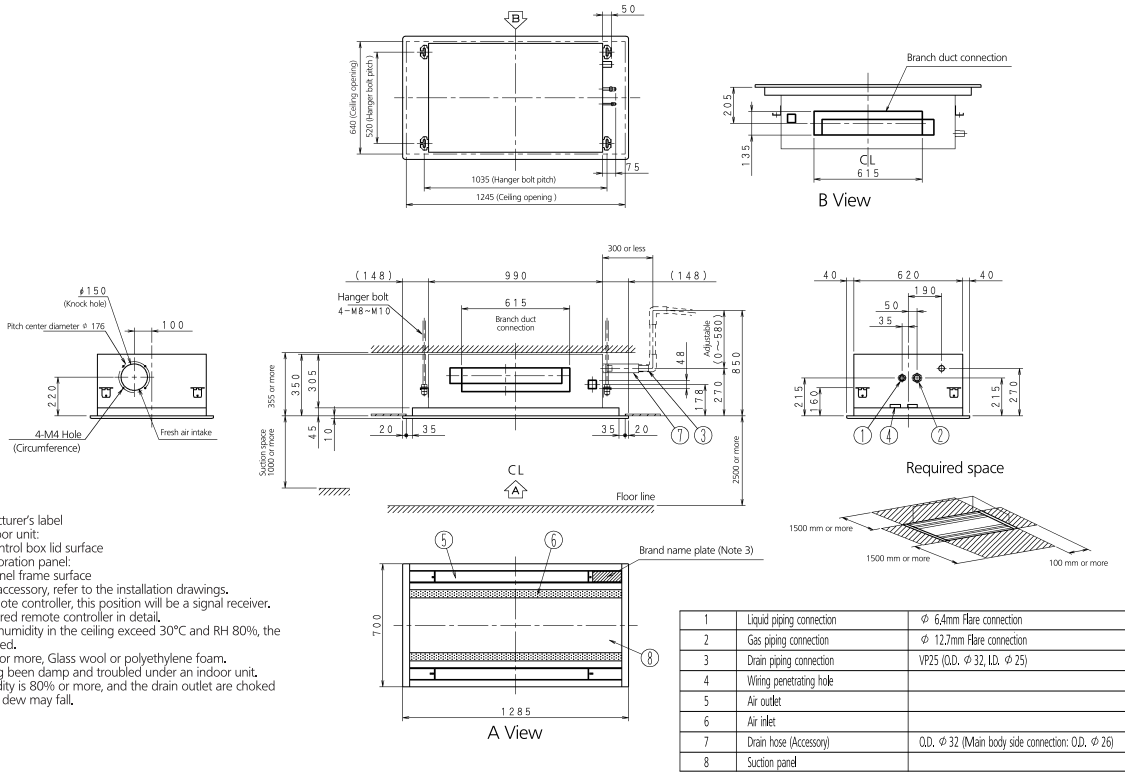
FXCQ50A



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.

1	Liquid piping connection	ϕ 6,4mm Flare connection
2	Gas piping connection	ϕ 12,7mm Flare connection
3	Drain piping connection	VP25 (O.D. ϕ 32, I.D. ϕ 25)
4	Wiring penetrating hole	
5	Air outlet	
6	Air inlet	
7	Drain hose (Accessory)	O.D. ϕ 32 (Main body side connection: O.D. ϕ 26)
8	Suction panel	

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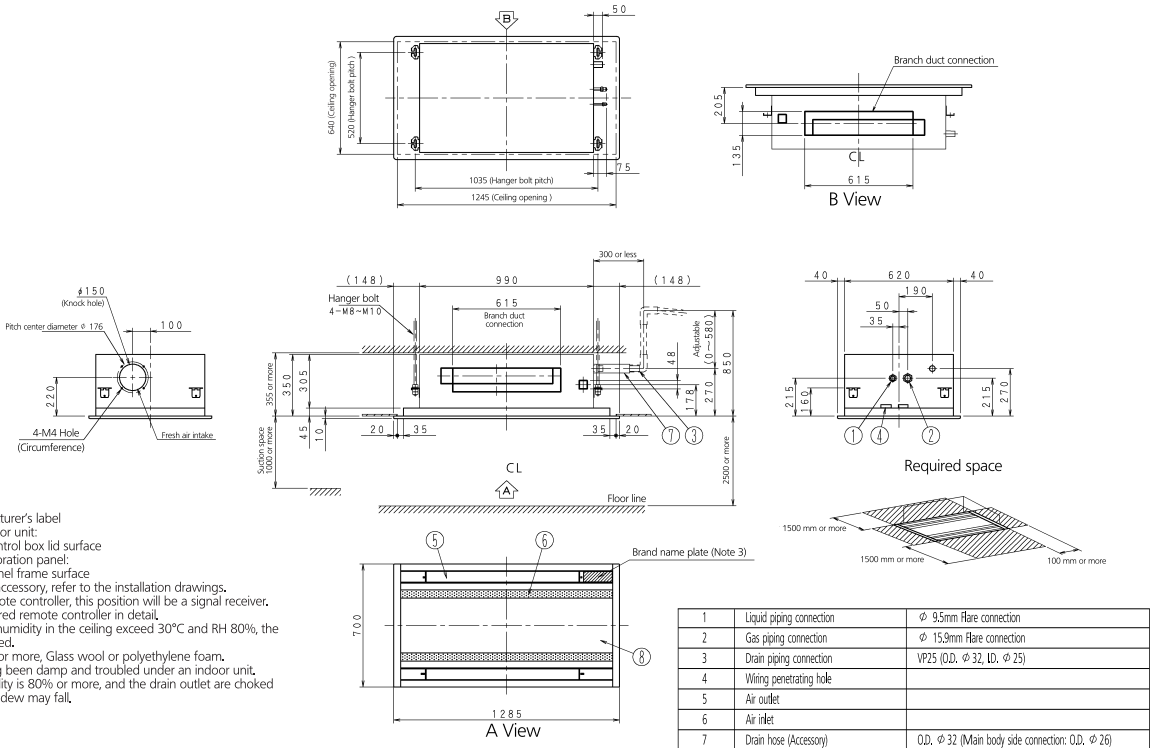
7 Dimensional drawings

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.

1	Liquid piping connection	ϕ 9,5mm Flare connection
2	Gas piping connection	ϕ 15,9mm Flare connection
3	Drain piping connection	VP25 (O.D. ϕ 32, I.D. ϕ 25)
4	Wiring penetrating hole	
5	Air outlet	
6	Air inlet	
7	Drain hose (Accessory)	O.D. ϕ 32 (Main body side connection: O.D. ϕ 26)
8	Suction panel	

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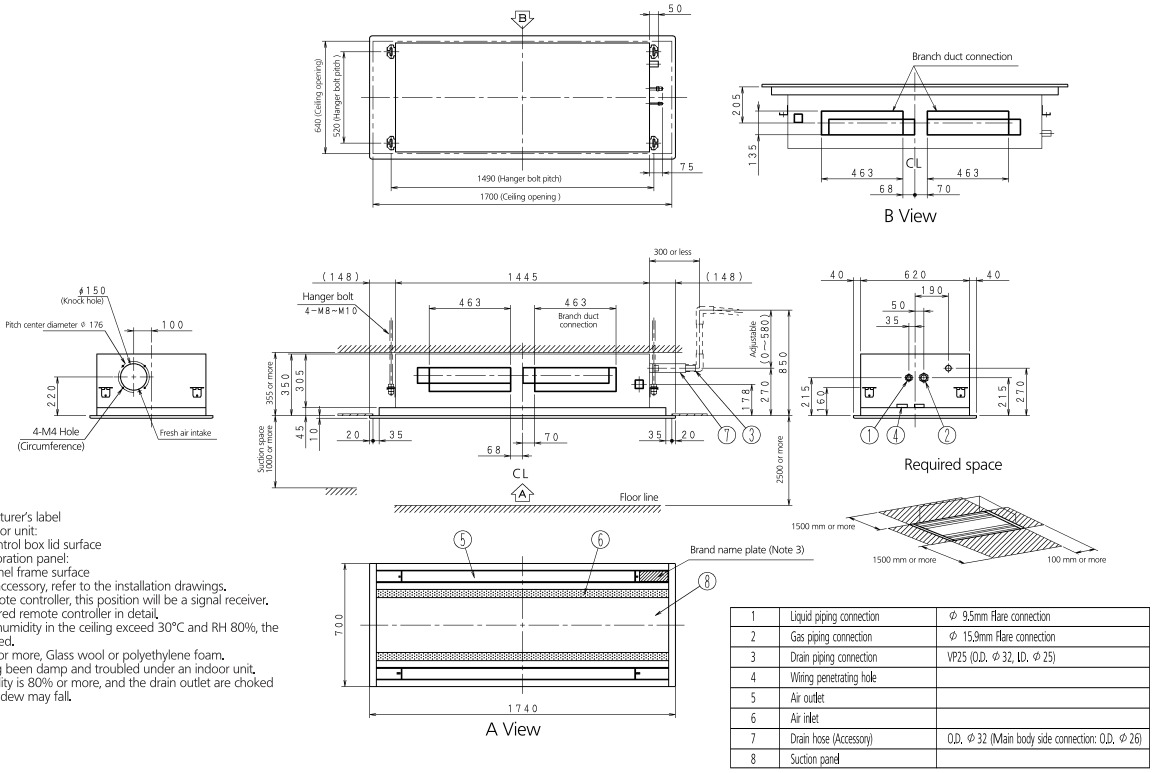
FXCQ80-125A



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.

1	Liquid piping connection	ϕ 9,5mm Flare connection
2	Gas piping connection	ϕ 15,9mm Flare connection
3	Drain piping connection	VP25 (O.D. ϕ 32, I.D. ϕ 25)
4	Wiring penetrating hole	
5	Air outlet	
6	Air inlet	
7	Drain hose (Accessory)	O.D. ϕ 32 (Main body side connection: O.D. ϕ 26)
8	Suction panel	

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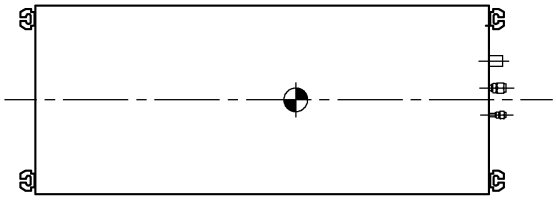
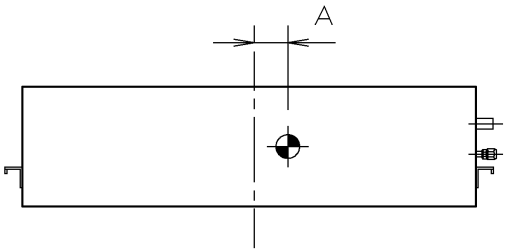
8 Centre of gravity

8 - 1 Centre of Gravity

FXCQ-A





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

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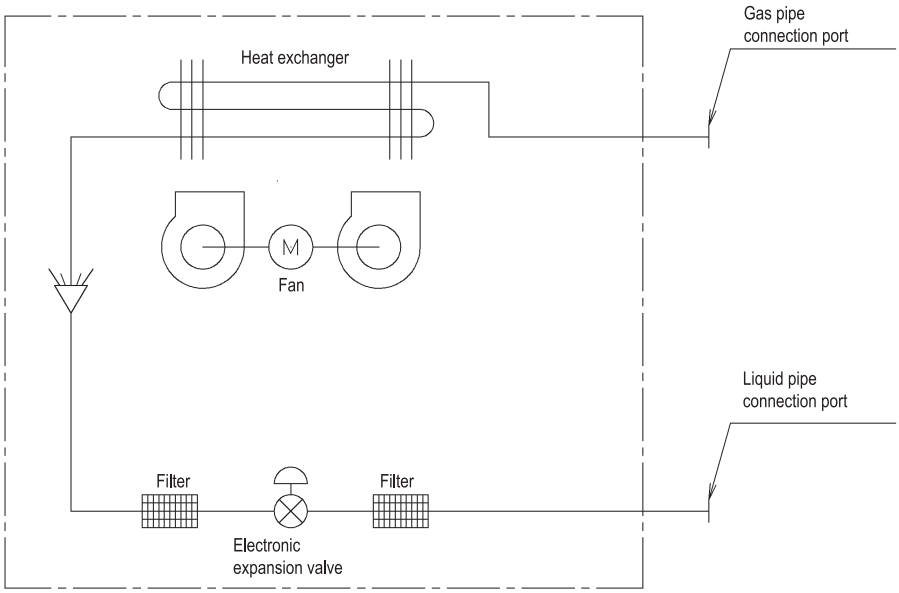
9 Piping diagrams

9 - 1 Piping Diagrams

FXCQ-A



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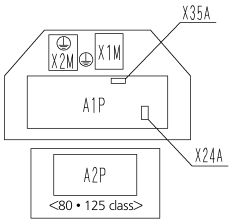
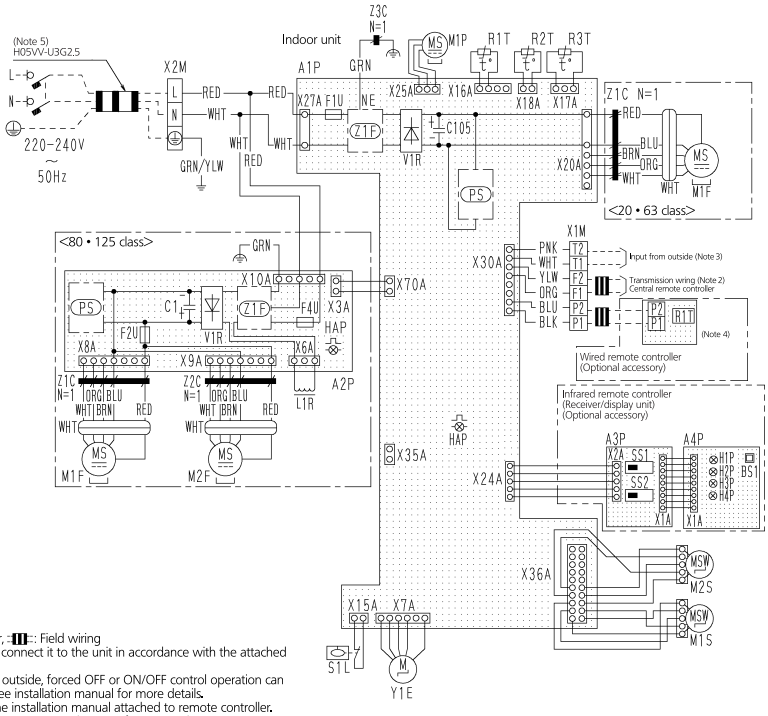
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXCQ-A

Indoor unit	
A1P•A2P	Printed circuit board
C105•C1	Capacitor
F1U	Fuse (T,3.15A, 250V)
F2U	Fuse (T,5A, 250V)
F4U	Fuse (T,6.3A, 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	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
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

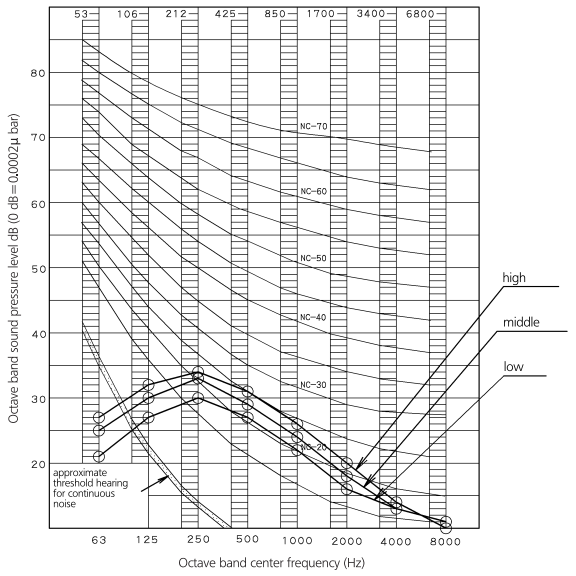
1. □□□ : Terminal block, ⊃⊢: Connector, ▯▯▯: Field wiring
2. In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
3. When connecting the input wires from outside, forced OFF or ON/OFF control operation can be selected by the remote controller. See installation manual for more details.
4. In case of main/sub overchange, see the installation manual attached to remote controller.
5. Shows only in case of protected pipes, use HO7RN-F 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.

3D079588

11 Sound data

11 - 1 Sound Pressure Spectrum

FXCQ20A



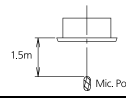
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	32.0	30.0	28.0
C	38.3	36.3	33.9

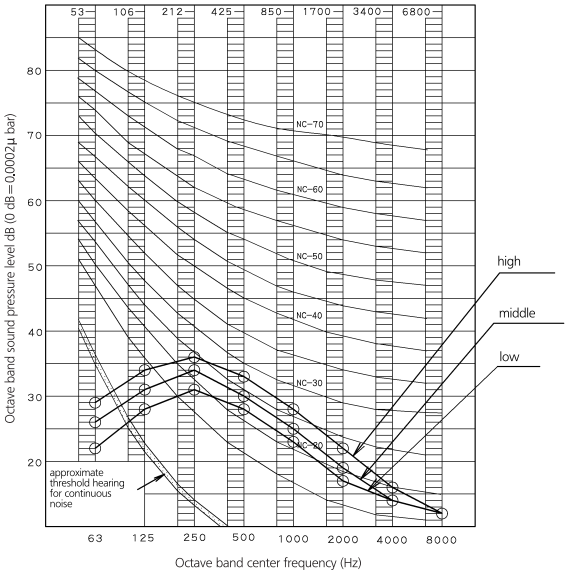
(B,G,N is already rectified)

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 220-240V 50Hz
5 Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
6 Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
7 Location of microphone



4D080154

FXCQ25A



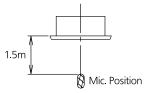
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	34.0	31.0	29.0
C	40.3	37.3	34.9

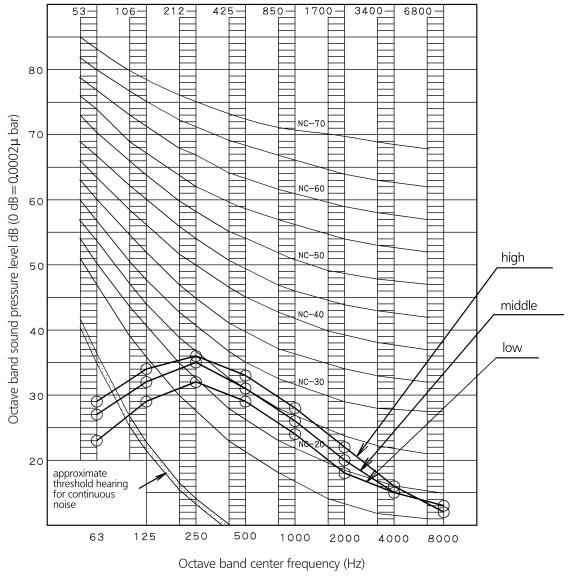
(B,G,N is already rectified)

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 220-240V 50Hz
5 Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
6 Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
7 Location of microphone



4D080155

FXCQ32A



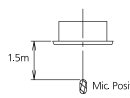
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	34.0	32.0	30.0
C	40.3	38.3	35.9

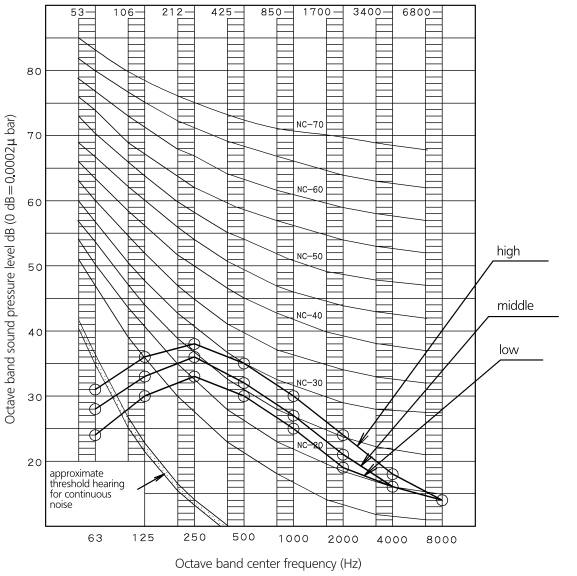
(B,G,N is already rectified)

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 220-240V 50Hz
5 Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
6 Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
7 Location of microphone



4D080156

FXCQ40A



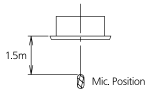
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	36.0	33.0	31.0
C	42.3	39.3	36.9

(B,G,N is already rectified)

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 220-240V 50Hz
5 Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
6 Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
7 Location of microphone

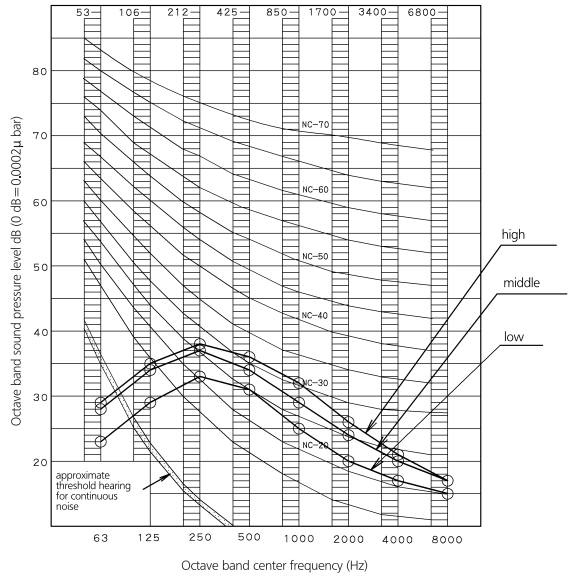


4D080157

11 Sound data

11 - 1 Sound Pressure Spectrum

FXCQ50A



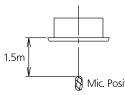
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	37,0	35,0	31,0
C	42,3	40,9	36,5

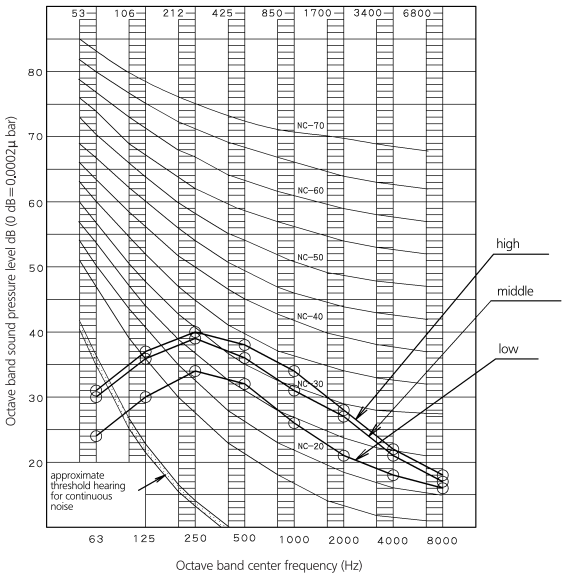
(B,G,N is already rectified)

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 220-240V 50Hz
5 Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
6 Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
7 Location of microphone



4D080158

FXCQ63A



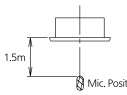
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	39,0	37,0	32,0
C	44,3	42,9	37,6

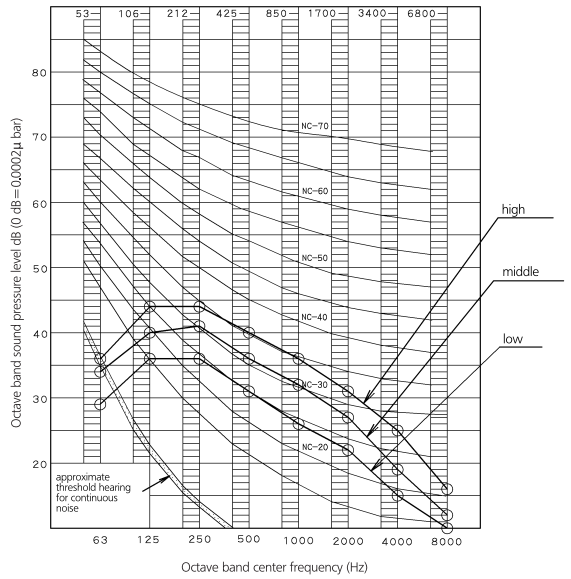
(B,G,N is already rectified)

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 220-240V 50Hz
5 Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
6 Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
7 Location of microphone



4D080159

FXCQ80A



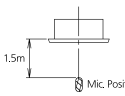
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	42,0	38,0	33,0
C	48,5	44,8	40,2

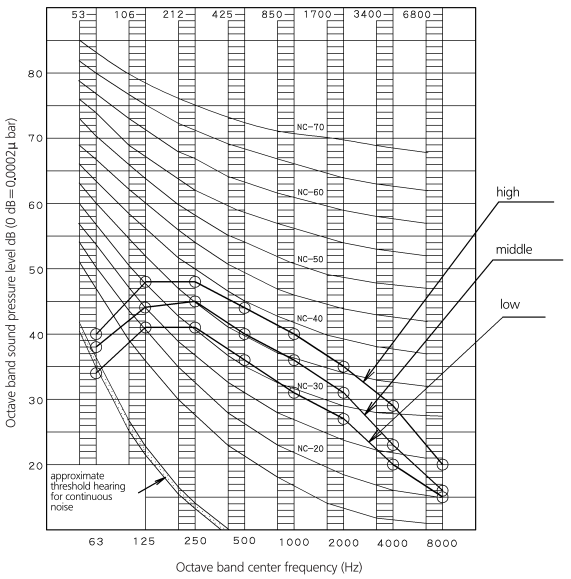
(B,G,N is already rectified)

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 220-240V 50Hz
5 Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
6 Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
7 Location of microphone



4D080160

FXCQ125A



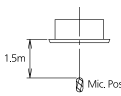
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	46,0	42,0	38,0
C	52,5	48,8	45,2

(B,G,N is already rectified)

2 Measuring place: Anechoic chamber
3 Operation noise differs with operation and ambient conditions.
4 Operating conditions: Power source: 220-240V 50Hz
5 Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
6 Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
7 Location of microphone



4D080161

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BARCODE

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