

Air Conditioning
Technical Data

FXUQ-A



> FXUQ71AVEB
> FXUQ100AVEB

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FXUQ-A

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1 Features

Unique Daikin unit for high rooms with no false ceilings nor free floor space

- Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- Can easily be installed in both new and refurbishment projects
- 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
- Optimum comfort guaranteed with automatic air flow adjustment to the required load
- 5 different discharge angles between 0 and 60° can be programmed via the remote control
- Standard drain pump with 500mm lift increases flexibility and installation speed



Inverter



Home leave operation



Fan only



Draught prevention



Auto cooling-heating changeover



Individual flap control



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					FXUQ71A		FXUQ100A	
Cooling capacity	Sensible capacity	Nom.	kW		6.0		8.1	
	Latent capacity	Nom.	kW		2.0		3.1	
	Total capacity	Nom.	kW		8.0		11.2	
Heating capacity	Total capacity	Nom.	kW		9.0 (1)		12.5 (1)	
Power input - 50Hz	Cooling	Nom.	kW		0.090		0.200	
	Heating	Nom.	kW		0.073		0.179	
Power input - 60Hz	Cooling	Nom.	kW		0.090		0.200	
	Heating	Nom.	kW		0.073		0.179	
Dimensions	Unit	Height	mm		198			
		Width	mm		950			
		Depth	mm		950			
	Packed unit	Height	mm		295			
		Width	mm		1,026			
		Depth	mm		1,016			
Weight	Unit		kg		26		27	
	Packed unit		kg		39			
Casing	Colour				Fresh White			
	Material				Resin			
Heat exchanger	Rows	Quantity			3			
	Fin pitch		mm		1.2			
	Passes	Quantity			10			
	Face area		m²		0.330			
	Stages	Quantity			10			
	Empty tubeplate hole	Quantity			0			
	Length		mm		2,413			
	Type				Cross fin coil (multi slit fins and HI-XA tubes)			
Fan	Type				Turbo fan			
	Quantity				1			
	Air flow rate - 50Hz	Cooling	High	m³/min	22.5		31.0	
			Medium	m³/min	19.5		26.0	
			Low	m³/min	16.0		21.0	
		Heating	High	m³/min	22.5		31.0	
			Medium	m³/min	19.5		26.0	
			Low	m³/min	16.0		21.0	
Fan motor	Model				QTS48D11M			
	Speed	Steps			3			
	Output	High	W		46		106	
Air filter	Type				Resin net with mold resistance			
Sound power level	Cooling	High	dBA		58		65	
		Nom.	dBA		56		62	
		Low	dBA		54		58	
Sound pressure level	Cooling	Medium	dBA		-			
		High	dBA		40.0		47.0	
		Nom.	dBA		38.0		44.0	
		Low	dBA		36.0		40.0	
	Heating	High	dBA		40.0		47.0	
		Nom.	dBA		38.0		44.0	
		Low	dBA		36.0		40.0	
Refrigerant	Type				R-410A			
	GWP				2,087.5			
Piping connections	Liquid	Type			Flare connection			
		OD	mm		9.52			
	Gas	Type			Flare connection			
		OD	mm		15.9			
	Drain				I.D. 20/O.D. 26			
	Heat insulation				Heat resistant foamed polyethylene, regular foamed polyethylene			

2 Specifications

2-1 Technical Specifications		FXUQ71A	FXUQ100A
Control systems	Infrared remote control	BRC7C58	
	Wired remote control	BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52	
	Simplified wired remote control for hotel applications	BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)	

2

Standard Accessories : Operation manual;
 Standard Accessories : Installation manual;
 Standard Accessories : Declaration of conformity;
 Standard Accessories : Drain hose;
 Standard Accessories : Clamp metal;
 Standard Accessories : Washer for hanger bracket;
 Standard Accessories : Clamps;
 Standard Accessories : Washer clamp;
 Standard Accessories : Joint insulating material;
 Standard Accessories : Sealing material;
 Standard Accessories : Elbow;
 Standard Accessories : Installation pattern;
 Standard Accessories : Blocking material;
 Standard Accessories : L-bent piping;
 Standard Accessories : Screws;
 Standard Accessories : Non woven fabric;

2-2 Electrical Specifications				FXUQ71A	FXUQ100A
Power supply	Phase			1~	
	Frequency		Hz	50/60	
	Voltage		V	220-240/220-230	
Voltage range	Max.		%	10	
	Min.		%	10	
Current - 50Hz	Minimum circuit amps (MCA)		A	0.6	1.4
	Maximum fuse amps (MFA)		A	16	
	Full load amps (FLA)	Fan motor	A	0.5	1.1
Current - 60Hz	Minimum circuit amps (MCA)		A	0.6	1.4
	Maximum fuse amps (MFA)		A	16.0	
	Full load amps (FLA)	Fan motor	A	0.5	1.1

Notes

(1) Contains fluorinated greenhouse gases

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

3 Electrical data

3 - 1 Electrical Data

FXUQ-A

Units				Power supply		IFM		Input (W)	
Model	Hz	Volts	Voltage range	MCA	MFA	kW	FLA	Cooling	Heating
FXUQ71AVEB	50	220-240	Max. 264	0.6	16	0.046	0.5	90	73
FXUQ100AVEB	60	220-230	Min. 198	1.4	16	0.106	1.1	200	179

NOTES

- Voltage range
Units are suitable for use on electrical systems where voltage supplied to the unit terminals is not below or above listed range limits.
- Maximum allowable voltage unbalance between phases is 2%.
- MCA/MFA
MCA=1.25xFLA
MFA≤4xFLA
(next lower standard fuse rating, min. 16A)
- Select wiring size based on the MCA.
- Instead of a fuse, use Circuit Breaker.

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

4 - 1 Safety Device Settings

FXUQ-A

Safety devices		71	100
FXUQ~A	Fuse	250V 3,15A	250V 3,15A
	Fan motor thermal fuse	°C	---
	Fan motor thermal protector	°C	---

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5 Options

5 - 1 Options

5

FXUQ-A

Name of option		Remark	FXUQ-AVEB	
			71	100
Sealing member of air discharge outlet			KDBHP49B140	
Decoration panel for air discharge			KDBTP49B140	
Replacement long-life filter			KAFP551K160	
Remote control	Wired type		BRC1D528, BRC1E51A7, BRC1E52A7, BRC1E52B7, (BRC1E61)	
	Infrared type	Heat pump use	BRC7CB58	
		Cooling only use	BRC7CB59	
Simplified remote control (with operation mode selector button)			BRC2E52C7 (note 3)	
Simplified remote control (without operation mode selector button)			BRC3E52C7 (note 3)	
Central remote control			DCS302CA51, (DCS302CA61)	
Unified on/off controller			DCS301BA51, (DCS301BA61)	
Schedule timer			DST301BA51, (DST301BA61)	
Wiring adapter for electrical appendices			KRP4AA53 (note 1)	
Installation box for adapter PCB			KRP1BA97	
Remote sensor			KRCS01-4B	
Connector for forced on, forced off			EKRORO5	
Electrical box with earth terminal (3 blocks)			KJB311AA	
Electrical box with earth terminal (2 blocks)			KJB212AA	
Digital input adapter			BRP7A53 (note 1, 4)	

NOTES

1. Installation box for adapter PCB (KRP1BA97) is necessary.

2. Kit name in () is for general overseas.

3. 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.

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

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6 Capacity tables

6 - 1 Cooling Capacity Tables

FXUQ-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
71	5.4	4.6	6.4	5.2	7.5	5.9	8.0	6.0	8.4	6.1	8.6	5.9	8.8	5.8
100	7.6	6.1	9.0	7.0	10.5	7.9	11.2	8.1	11.3	7.9	11.6	7.7	11.9	7.4

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 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.
- 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

FXUQ-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
71	9.5	9.4	9.0	8.7	8.4	7.9
100	13.1	13.1	12.5	12.1	11.7	10.9

6

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

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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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 - 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.
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 - В этом случае используйте таблицу характеристик выбранного устанавливаемого в помещении оборудования и внесите необходимую поправку на их изменение.

7 Dimensional drawings

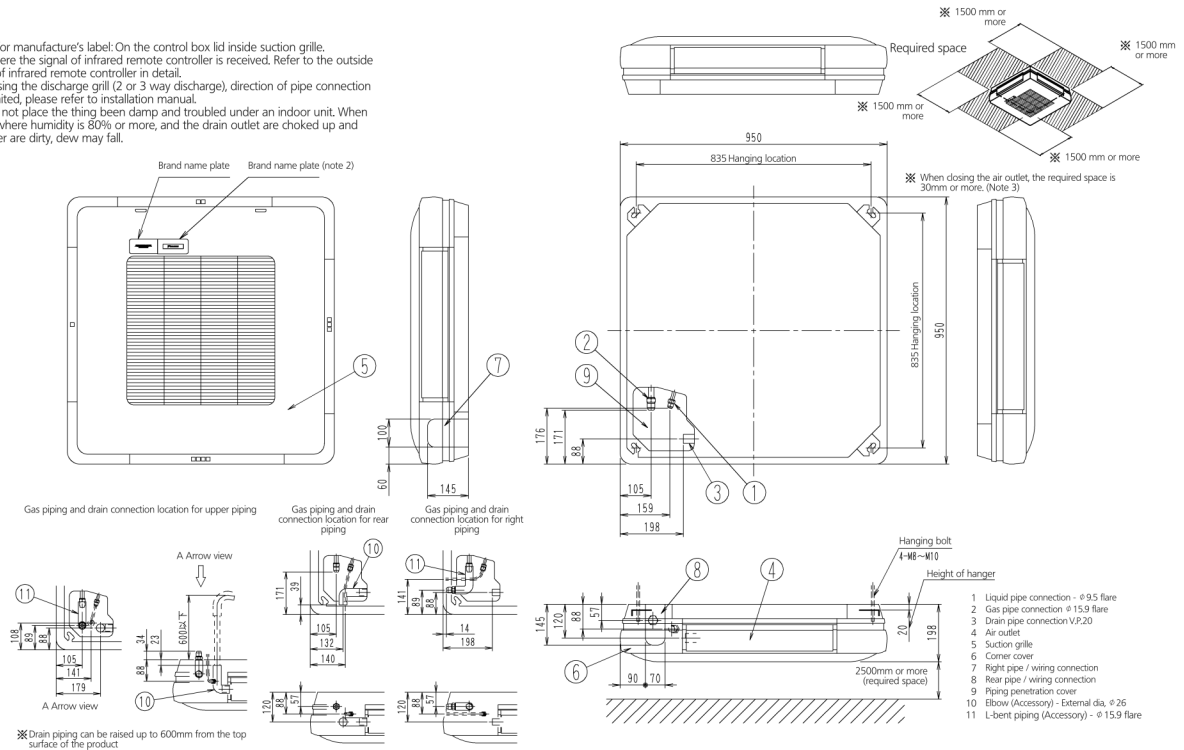
7 - 1 Dimensional Drawings

FXUQ-A

Note:

1. Location for manufacture's label: On the control box lid inside suction grille.
2. This is where the signal of infrared remote controller is received. Refer to the outside drawing of infrared remote controller in detail.
3. When closing the discharge grill (2 or 3 way discharge), direction of pipe connection will be limited, please refer to installation manual.
4. 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.

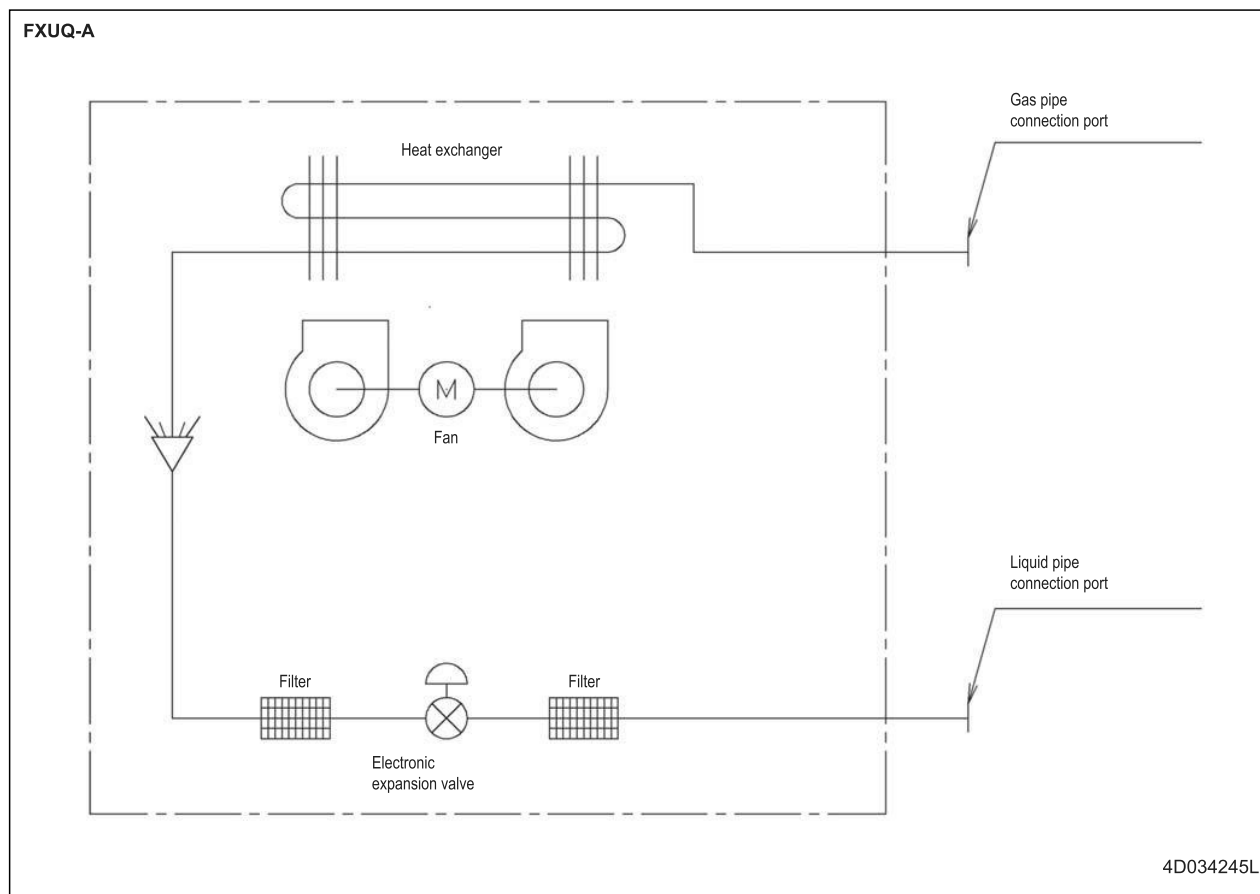
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8 Piping diagrams

8 - 1 Piping Diagrams

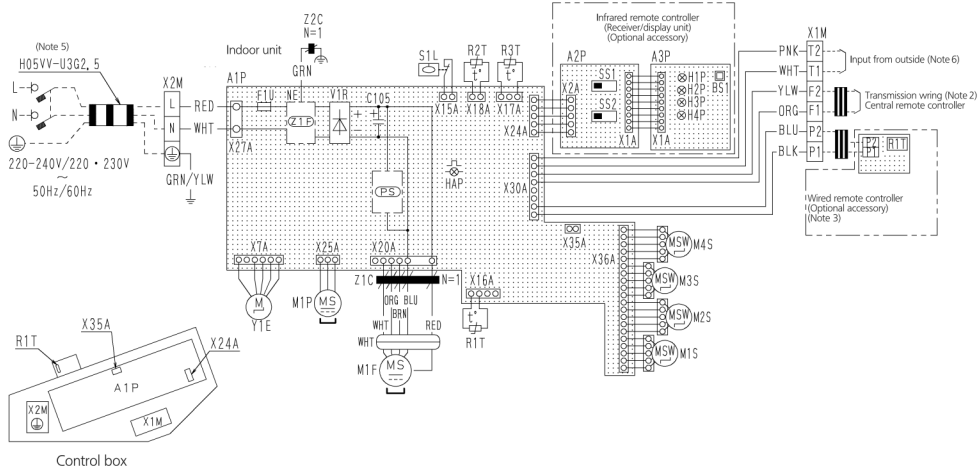


9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXUQ-A

Indoor unit	
A1P	Printed circuit board
C105	Capacitor (MFR)
F1U	Fuse (3.15A, 250V)
HAP	Fluorescent lamp (service monitor-green)
M1F	Motor (indoor fan)
M1P	Motor (blow pump)
M1S-M3S	Motor (swing blade)
M1S-M3S	Motor (swing blade)
R1T	Thermistor (air)
R2T-R3T	Thermistor (coil)
S1L	Reset switch
V1R	Diode bridge
X1M	Terminal block
X2M	Terminal block
Y1E	Electronic expansion valve
Z1F	Noise filter
Z1C	Feeder cone
Z2C	Feeder cone
PS	Power supply circuit
Infrared remote controller (Receiver/display unit) (Optional accessory)	
A2P	Printed circuit board
A3P	Printed circuit board
B1	Push button (power)
H1P	Fluorescent lamp (on-red)
H2P	Fluorescent lamp (on-green)
H3P	Fluorescent lamp (on-red)
H4P	Fluorescent lamp (on-red-orange)
S1	Selector switch (main/sub)
S2	Selector switch (infrared address set)
Wired remote controller	
R1T	Thermistor (air)
Connector for optional parts	
X24A	Connector (Infrared remote controller)
X35A	Connector (Power supply for adapter)



Notes

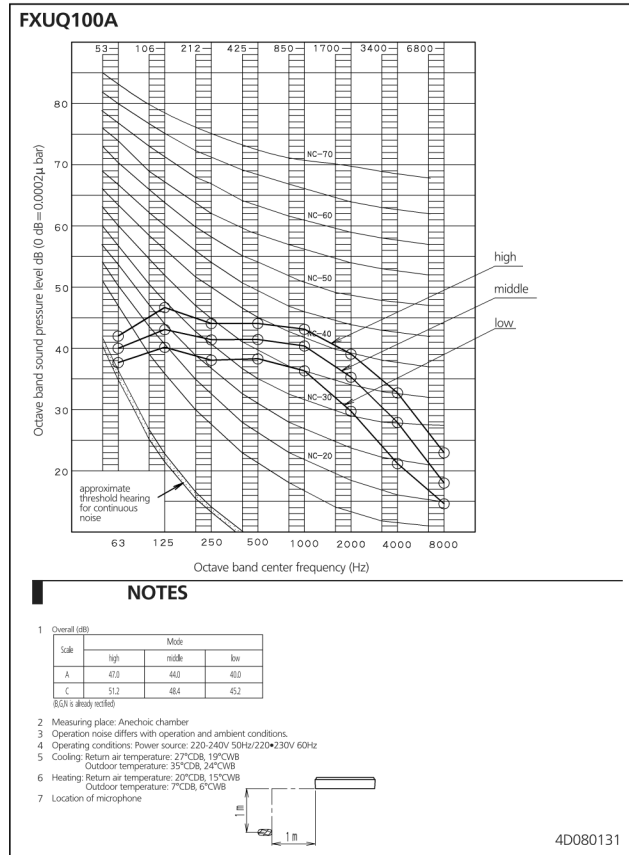
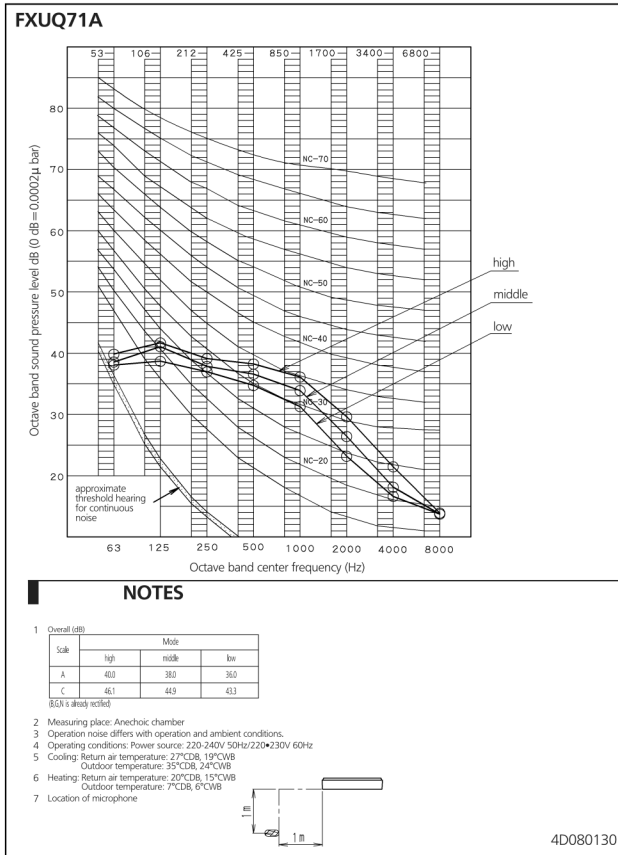
1. : Terminal block : Connector : Field wiring
2. In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
3. In case of main/sub overcharge, see the installation manual attached to remote controller.
4. Symbols show as follows: BLK:Black RED:Red BLU:Blue WHT:White YLW:Yellow GRN:Green ORG:Orange BRN:Brown PNK:Pink.
5. Shows only in case of protected pipes, use HO7RN-F in case of no protection.
6. 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.

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10 Sound data

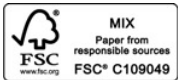
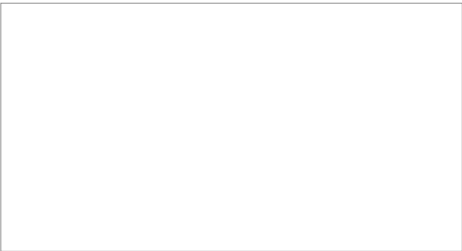
10 - 1 Sound Pressure Spectrum

10





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