

4-way blow ceiling
suspended unit
Air Conditioning
Technical Data
FXUQ-A



FXUQ71AVEB9
FXUQ100AVEB9

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FXUQ-A

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1 Features

1 - 1 FXUQ-A

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

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- › 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 720mm lift increases flexibility and installation speed



Presence & floor sensor (optional)



Home leave operation



Fan only



Draught prevention



Auto cooling-heating changeover



Individual flap control



Vertical auto swing



Fan speed steps (3 steps + auto)



Dry programme



Air filter



Weekly timer (optional)



Infrared remote control (optional)



Wired remote control (optional)



Centralised control (optional)



Auto-restart



Self diagnosis



Drain pump kit (standard)

2 Specifications

2 - 1 Specifications

Technical specifications					FXUQ71A		FXUQ100A	
Cooling capacity	Sensible capacity	At high fan speed		kW	6.0		8.1	
	Latent capacity	At high fan speed		kW	2.0		3.1	
	Total capacity	At high fan speed		kW	8.0		11.2	
Heating capacity	Total capacity	At high fan speed		kW	9.0		12.5	
Power input - 50Hz	Cooling	At high fan speed		kW	0.090		0.200	
	Heating	At high fan speed		kW	0.073		0.179	
Power input - 60Hz	Cooling	At high fan speed		kW	0.090		0.200	
	Heating	At high fan speed		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			
Fan	Type				Turbo fan			
	Quantity				1			
	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	22.5		31.0	
			At medium fan speed	m³/min	19.5		26.0	
			At low fan speed	m³/min	16.0		21.0	
		Heating	At high fan speed	m³/min	22.5		31.0	
			At medium fan speed	m³/min	19.5		26.0	
			At low fan speed	m³/min	16.0		21.0	
Fan motor	Output	High	W	46		106		
Sound power level	Cooling	At high fan speed	dBA	58		65		
		At medium fan speed	dBA	56		62		
		At low fan speed	dBA	54		58		
Sound pressure level	Cooling	At high fan speed	dBA	40.0		47.0		
		At medium fan speed	dBA	38.0		44.0		
		At low fan speed	dBA	36.0		40.0		
	Heating	At high fan speed	dBA	40.0		47.0		
		At medium fan speed	dBA	38.0		44.0		
		At low fan speed	dBA	36.0		40.0		
Fan motor	Model				QTS48D11M			
	Speed	Steps			3			
Refrigerant	Type				R-410A			
	GWP				2,087.5			
Piping connections	Liquid	Type				Flare connection		
		OD	mm		9.5			
	Gas	Type				Flare connection		
		OD	mm		15.9			
	Drain				I.D. 20/O.D. 26			
Heat insulation				Heat resistant foamed polyethylene, regular foamed polyethylene				
Air filter	Type				Resin net with mold resistance			
Control systems	Infrared remote control			BRC7CB58 / BRC7CB59				
	Wired remote control			BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52				
Heat exchanger	Length			mm	2,413			
	Type				Cross fin coil (multi slit fins and HI-XA tubes)			

Standard accessories: Operation manual;Quantity: ;

Standard accessories: Installation manual;Quantity: ;

Standard accessories: Declaration of conformity;Quantity: ;

Standard accessories: Drain hose;Quantity: ;

Standard accessories: Clamp metal;Quantity: ;

Standard accessories: Washer for hanger bracket;Quantity: ;

Standard accessories: Clamps;Quantity: ;

Standard accessories: Washer clamp;Quantity: ;

2 Specifications

2 - 1 Specifications

Standard accessories: Joint insulating material;Quantity: ;

Standard accessories: Sealing material;Quantity: ;

Standard accessories: Elbow;Quantity: ;

Standard accessories: Installation pattern;Quantity: ;

Standard accessories: Blocking material;Quantity: ;

Standard accessories: L-bent piping;Quantity: ;

Standard accessories: Screws;Quantity: ;

Standard accessories: Non woven fabric;Quantity: ;

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

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 x FLA |

MFA ≤ 4 x 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

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

1. 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.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA/MFA
MCA=1.25xFLA
MFA≤4xFLA
(next lower standard fuse rating, min.16A)
4. Select wiring size based on the MCA.
5. 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

4D080216B

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

FXUQ-A

NAME OF OPTION	REMARK		FUQ～CVEB		FXUQ～AVEB		
			71	100	125	71	100
SEALING MEMBER OF AIR DISCHARGE OUTLET			KDBHP49B140				
DECORATION PANEL FOR AIR DISCHARGE			KDBTP49B140				
REPLACEMENT LONG-LIFE FILTER			KAF5511D160				
REMOTE CONTROLLER	WIRED TYPE		BRC1D528, BRC1E51A7, BRC1E52A7, BRC1E52B7, (BRC1E61) BRC1H52W, BRC1H52K, BRC1H52S, BRC1H82W, BRC1H82K, BRC1H82S				
	WIRELESS TYPE	HEAT PUMP USE	BRC7CB58				
		COOLING ONLY USE	BRC7CB59				
SIMPLIFIED REMOTE CONTROLLER (WITH OPERATION MODE SELECTOR BUTTON)			BRC2E52C7 …※3				
SIMPLIFIED REMOTE CONTROLLER (WITHOUT OPERATION MODE SELECTOR BUTTON)			BRC3E52C7 …※3				
CENTRAL REMOTE CONTROLLER			DCS302CA51. (DCS302CA61)				
UNIFIED ON/OFF CONTROLLER			DCS301BA51. (DCS301BA61)				
SCHEDULE TIMER			DST301BA51. (DST301BA61)				
WIRING ADAPTER FOR ELECTRICAL APPENDICES			KRP4AA53 …※1				
INSTALLATION BOX FOR ADAPTOR PCB			KRP1BA97				
REMOTE SENSOR			KRC501-4B				
CONNECTOR FOR FORCED ON, FORCED OFF			EKR0R05				
ELECTRICAL BOX WITH EARTH TERMINAL (3 BLOCKS)			KJB311AA				
ELECTRICAL BOX WITH EARTH TERMINAL (2 BLOCKS)			KJB212AA				
DIGITAL INPUT ADAPTOR			BRP7A53 …※1. ※4				

NOTE) ※1: INSTALLATION BOX FOR ADAPTOR 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 EKPCCB3 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 CONTROLLER BRC2/3E52C7 AND BRC1H52W(K) (S) AND BRC1H82W(K) (S).

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

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 - 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.
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 - 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.
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 - Le cas échéant, utiliser le tableau de capacité de l'équipement intérieur sélectionner et corriger le rapport de modification de capacité.
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 - 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.

7 Dimensional drawings

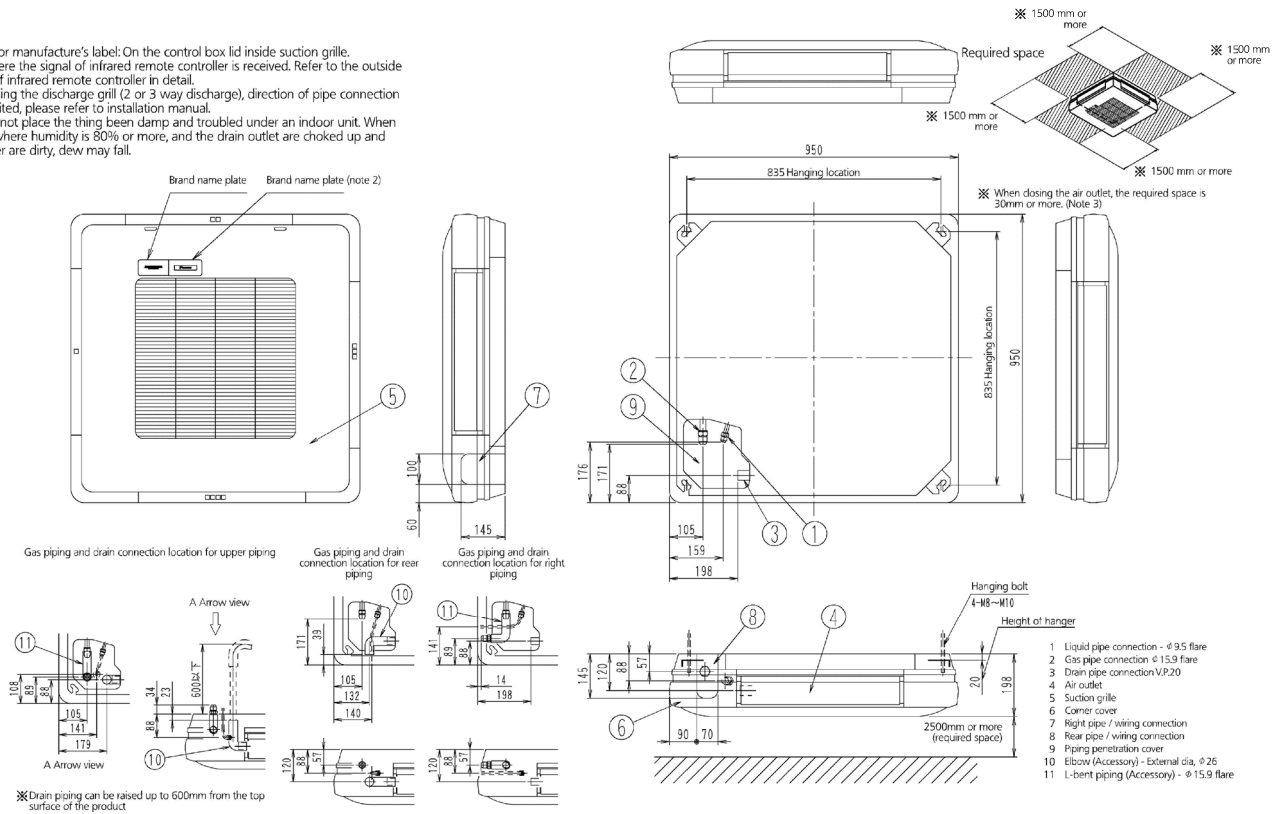
7 - 1 Dimensional Drawings

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.

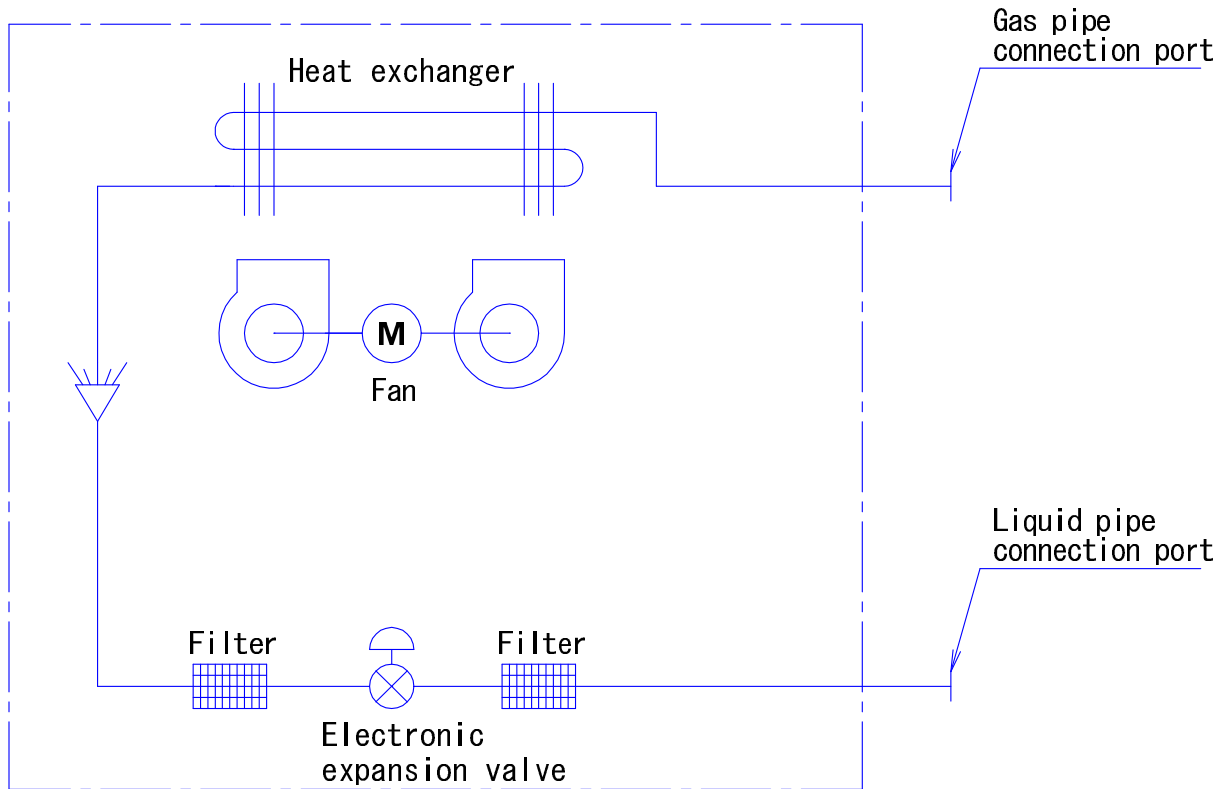
(Unit: mm)



8 Piping diagrams

8 - 1 Piping Diagrams

FXUQ-A



APPLICABLE MODEL

FXC, FXM, FXL, FXN
 FXH, FXK, FXS, FJSP
 CBXLS, FXSP, FXCP
 FZSP, FXNP, FJNP
 FHQ, FXA, FXMQ, FBQ
 FXAQ, FXSP~BA, FAQ, FCQ
 FZSP~BA (N), FSSP~BA,
 FQSP~BAN, FXUQ, FZCP, FZAP
 FXSQ~PV2S, FXSQ~T, FXSP~CA (N)
 FZSP~CA (N), FQSP~CAN
 FSSP~CA, FXSFP~AA, FSSFP~AA
 FXHQ

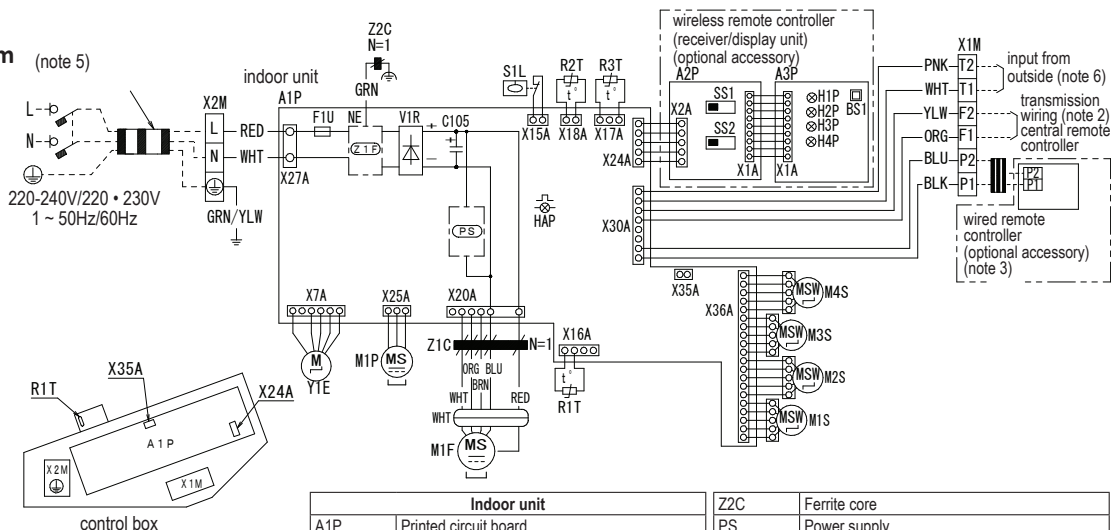
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9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXUQ-A

Wiring diagram (note 5)



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 changeover, 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 piping. Use H07RN-F in case of no protection.
6. When connecting the input wiring from outside, forced off or ON/OFF control operation can be selected by the remote controller. See installation manual for more details.

Indoor unit	
A1P	Printed circuit board
C105	Capacitor (M1F)
F1U	Fuse (T,3.15A,250V)
HAP	Flashing lamp (service monitor green)
M1F	Motor (indoor fan)
M1P	Motor (drain pump)
M1S • M2S	Motor (swing blade)
M3S • M4S	
R1T	Thermistor (air)
R2T • R3T	Thermistor (coil)
S1L	Float switch
V1R	Diode bridge
X1M	Terminal block
X2M	Terminal block
Y1E	Electronic expansion valve
Z1F	Noise filter
Z1C	Ferrite core

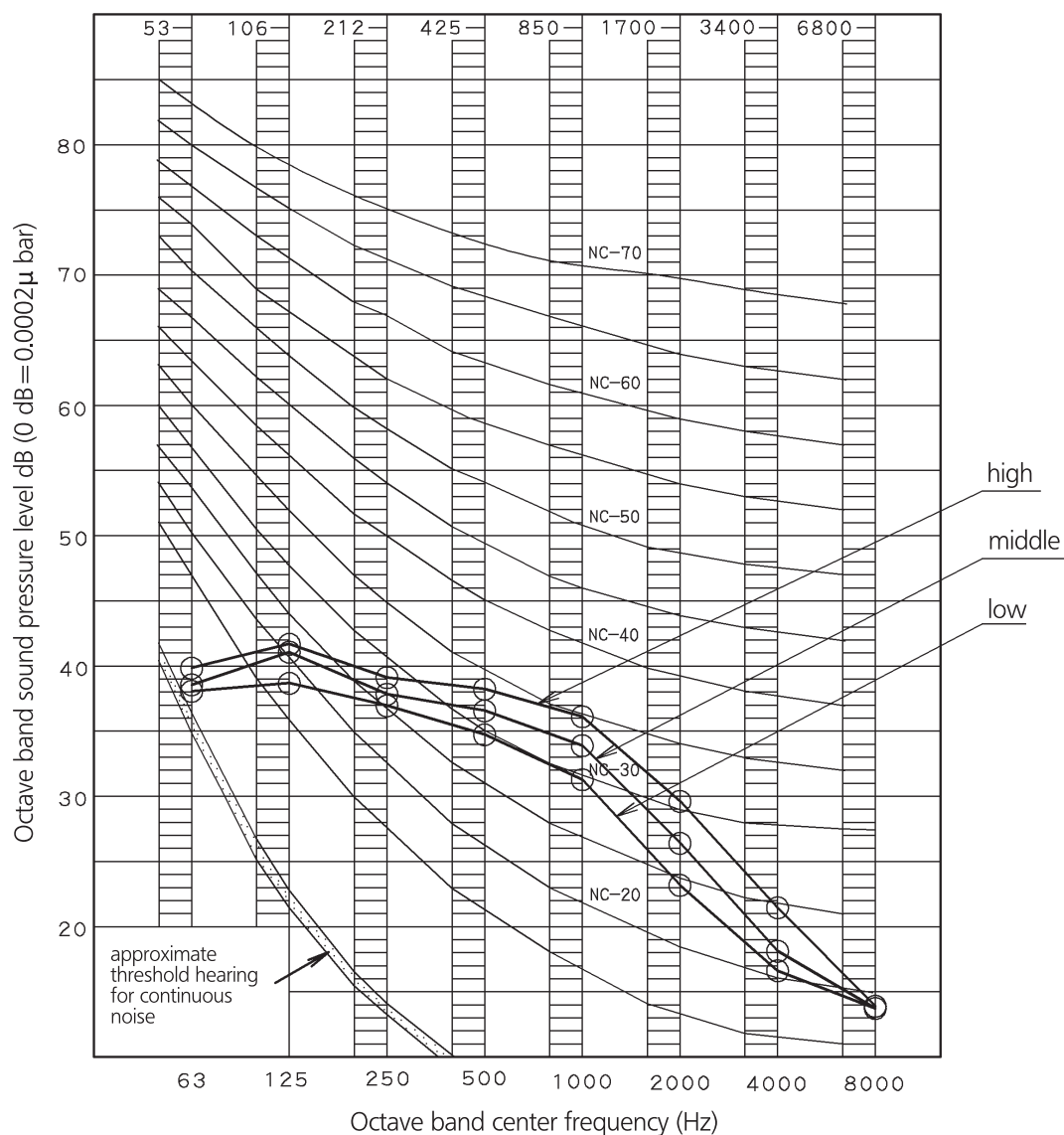
Z2C	Ferrite core
PS	Power supply
Wireless remote controller (Receiver/display unit)	
A2P	Printed circuit board
A3P	Printed circuit board
BS1	Push button switch (on/off)
H1P	Pilot lamp (on-red)
H2P	Pilot lamp (timer-green)
H3P	Pilot lamp (filter sign-red)
H4P	Pilot lamp (defrost-orange)
SS1	Selector switch (main/sub)
SS2	Selector switch (wireless address set)
Connector for optional parts	
X24A	Connector (wireless remote controller)
X35A	Connector (power supply for adapter)

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10 Sound data

10 - 1 Sound Pressure Spectrum

FXUQ71A



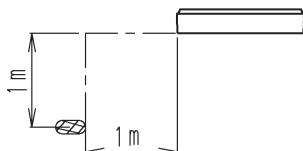
NOTES

1 Overall (dB)

Scale	Mode		
	high	middle	low
A	40.0	38.0	36.0
C	46.1	44.9	43.3

(B,G,N is already rectified)

- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz/220•230V 60Hz
- Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
- Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone

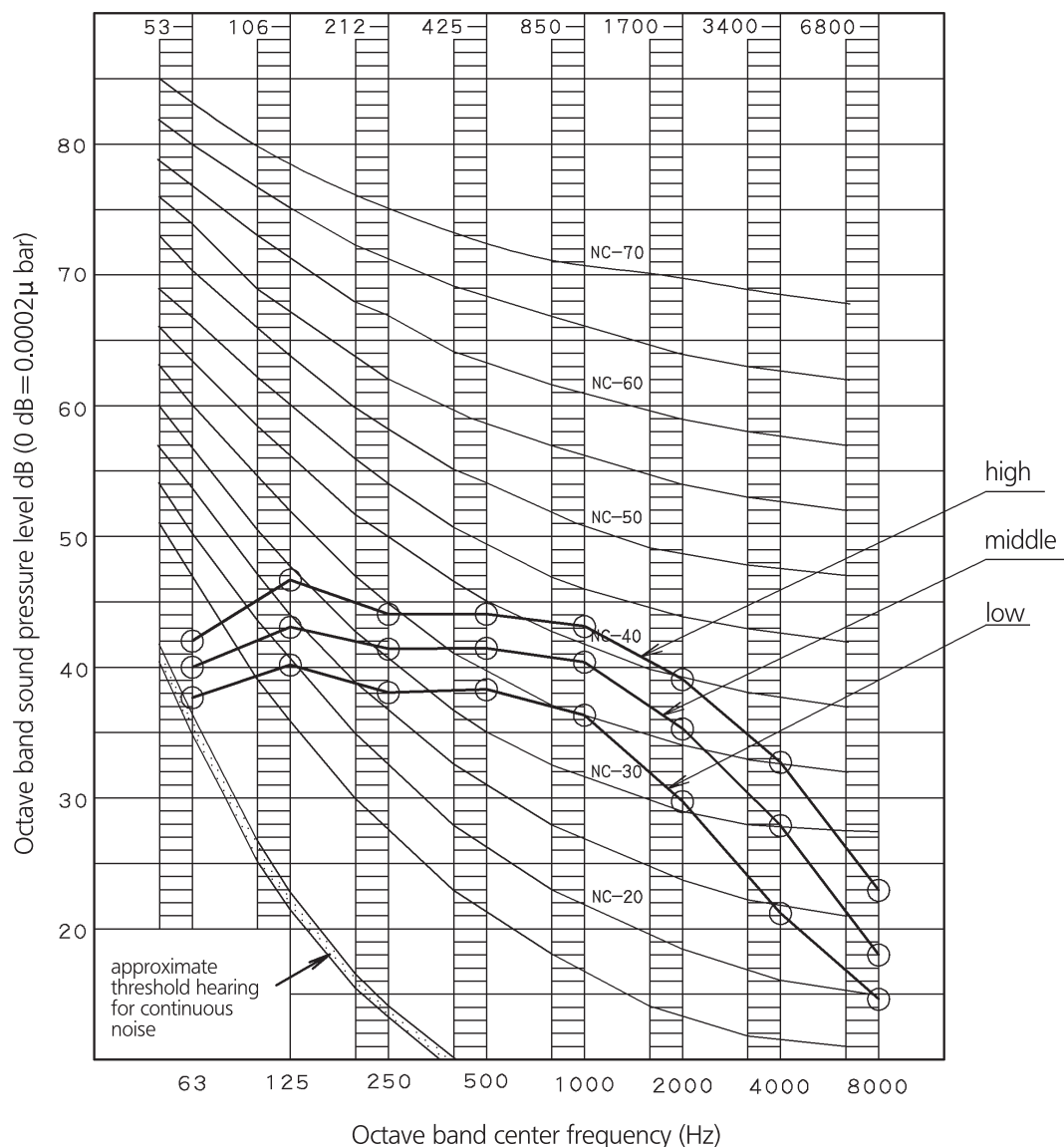


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10 Sound data

10 - 1 Sound Pressure Spectrum

FXUQ100A



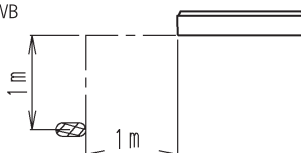
NOTES

1 Overall (dB)

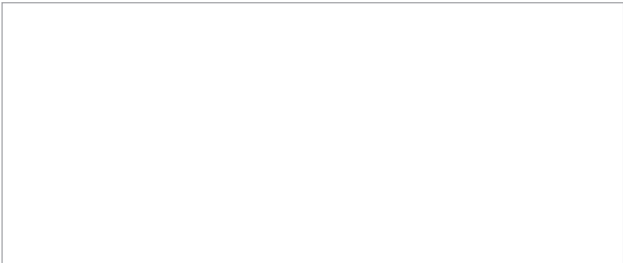
Scale	Mode		
	high	middle	low
A	47.0	44.0	40.0
C	51.2	48.4	45.2

(B,G,N is already rectified)

- Measuring place: Anechoic chamber
- Operation noise differs with operation and ambient conditions.
- Operating conditions: Power source: 220-240V 50Hz/220•230V 60Hz
- Cooling: Return air temperature: 27°CDB, 19°CWB
Outdoor temperature: 35°CDB, 24°CWB
- Heating: Return air temperature: 20°CDB, 15°CWB
Outdoor temperature: 7°CDB, 6°CWB
- Location of microphone



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