Wall mounted unit
Technical data book
FXAQ-A

FXAQ15AUV1B
FXAQ20AUV1B
FXAQ25AUV1B
FXAQ32AUV1B
FXAQ40AUV1B
FXAQ50AUV1B
FXAQ63AUV1B

EEDEN20A

Table of contents

FXAQ-A

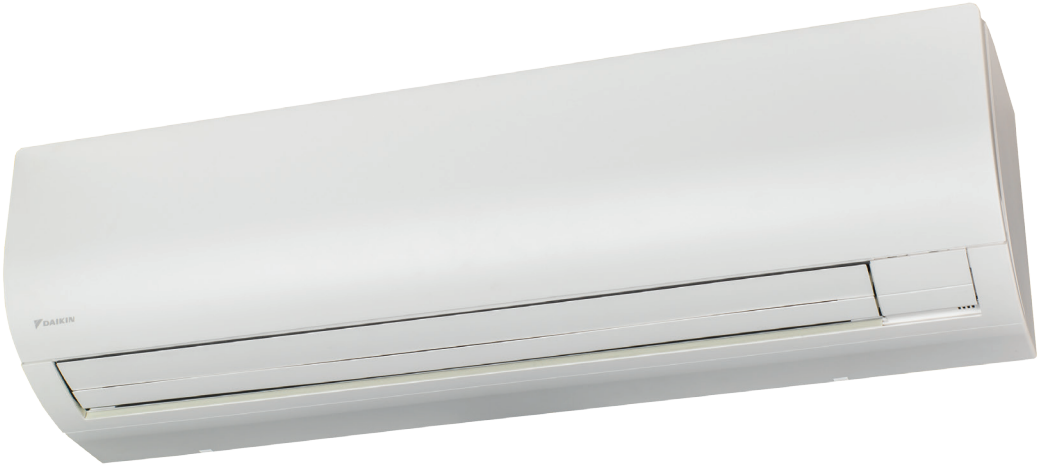
1 Features

1 - 1 FXAQ-A

For rooms with no false ceilings nor free floor space

1

- Flat, stylish front panel blends easily within any interior décor and is easier to clean
- Can easily be installed in both new and refurbishment projects
- Reduced energy consumption thanks to specially developed DC fan motor
- The air is comfortably spread up- and downwards thanks to 5 different discharge angles that can be programmed via the remote control
- Maintenance operations can be performed easily from the front of the unit



Home leave operation

Fan only

Auto cooling-heating changeover

Whisper quiet

Vertical auto swing

Fan speed steps

Dry programme

Air filter

Weekly timer

Infrared remote control

Wired remote control

Centralised control

Auto-restart

Self diagnosis

Multi tenant

Drain pump kit

2 Specifications

1 - 1 FXAQ-A

Technical specifications					FXAQ15A	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
Cooling capacity	Sensible capacity	At high fan speed		kW	1.50	1.90	2.20	2.70	3.50	4.20	5.30
	Latent capacity	At high fan speed		kW	0.20	0.30	0.60	0.90	1.00	1.40	1.80
	Total capacity	At high fan speed		kW	1.7 (1)	2.2 (1)	2.8 (1)	3.6 (1)	4.5 (1)	5.6 (1)	7.1 (1)
Heating capacity	Total capacity	At high fan speed		kW	1.9 (2)	2.5 (2)	3.2 (2)	4.0 (2)	5.0 (2)	6.3 (2)	8.0 (2)
Power input - 50Hz	Cooling	At high fan speed		kW	0.02		0.03		0.02	0.03	0.05
	Heating	At high fan speed		kW	0.03			0.04	0.02	0.04	0.06
Dimensions	Unit	Height		mm	290						
		Width		mm	795				1,050		
		Depth		mm	266				269		
Weight	Unit			kg	12				15		
Casing	Colour				White						
Heat exchanger	Rows	Quantity			2						
	Fin pitch			mm	1.4						
	Face area			m^2	0.161				0.213		
	Stages	Quantity			14						
Fan	Type				Cross flow fan						
	Air flow rate - 50Hz	Cooling	At high fan speed	m^3/min	8.4	9.1	9.4	9.8	12.2	14.4	18.3
			At low fan speed	m^3/min	7.0				9.7	11.5	13.5
Sound power level	Cooling	At high fan speed		dBA	51.0	52.0	53.0	55.0		58.0	63.0
Sound pressure level	Cooling	At high fan speed		dBA	32.0	33.0	35.0	37.5	37.0	41.0	46.5
		At low fan speed		dBA	28.5				33.5	35.5	38.5
	Heating	At high fan speed		dBA	33.0	34.0	36.0	38.5	38.0	42.0	47.0
		At low fan speed		dBA	28.5				33.5	35.5	38.5
Fan motor	Model				KFD-280-40-8K				ARW30W8P43DK		
	Drive				Direct drive						
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				VP13 (I.D. 15/O.D. 18)						
	Sound absorbing insulation				Foamed polystyrene / polyethylene						
Air filter	Type				Washable resin net						
Control systems	Infrared remote control				BRC7EA628 / BRC7EA629						
Control systems	Wired remote control				BRC1H52W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						

Standard accessories: Installation and operation manual; Quantity: 1;

Standard accessories: Installation panel; Quantity: 1;

Standard accessories: Paper pattern for installation; Quantity: 1;

Standard accessories: Insulation tape; Quantity: 1;

Standard accessories: Clamps; Quantity: 1;

Standard accessories: Screws; Quantity: 1;

Electrical specifications				FXAQ15A	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A
Power supply	Name			V1						
	Phase			1~						
	Frequency		Hz	50						
	Voltage		V	220-240						
Current - 50Hz	Minimum circuit amps (MCA)		A	0.3		0.4			0.5	0.7
	Maximum fuse amps (MFA)		A	16						
	Full load amps (FLA)	Total	A	0.2		0.3			0.4	0.6

(1)Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB; equivalent piping length: 5m (horizontal) |
(2)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m (horizontal) |
Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. |
Sound levels are measured in an anechoic room. |
Operation sound differs with operation and ambient conditions |
The sound pressure level is measured via a microphone at 1m distance of the unit. |
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 |
Contains fluorinated greenhouse gases |
Instead of a fuse, use a circuit breaker |
Select wire size based on the value of MCA |
Next lower standard fuse rating minimum 16A |
MFA ≤ 4 x FLA

3 Electrical data

3 - 1 Electrical Data

FXAQ-A

Indoor unit				Power supply		IFM		Input	(W)
Model name	Hz	Voltage	Voltage range	MCA	MFA	kW	FLA	Cooling	Heating
FXAQ15AUV1B	50	220~240	MAX. 50Hz 264V MIN. 50Hz 198V	0,30	16	0,040	0,2	17	25
FXAQ20AUV1B	50	220~240	MAX. 50Hz 264V MIN. 50Hz 198V	0,30	16	0,040	0,2	19	29
FXAQ25AUV1B	50	220~240	MAX. 50Hz 264V MIN. 50Hz 198V	0,40	16	0,040	0,3	28	34
FXAQ32AUV1B	50	220~240	MAX. 50Hz 264V MIN. 50Hz 198V	0,40	16	0,040	0,3	30	35
FXAQ40AUV1B	50	220~240	MAX. 50Hz 264V MIN. 50Hz 198V	0,40	16	0,043	0,3	20	20
FXAQ50AUV1B	50	220~240	MAX. 50Hz 264V MIN. 50Hz 198V	0,50	16	0,043	0,4	33	39
FXAQ63AUV1B	50	220~240	MAX. 50Hz 264V MIN. 50Hz 198V	0,70	16	0,043	0,5	50	60

Notes

1) The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.

2) The maximum allowable voltage that is unbalanced between phases is ·2·%.

3) MCA/MFA
   MCA = 1.25 X FLA
   MFA ≤ 4 X FLA

4) Select the wire size according to the MCA.

5) Use a circuit breaker instead of a fuse.

Symbols

MCA: Minimum Circuit Ampere [A]
MFA: Maximum Fuse Ampere [A]
kW: Fan motor rated output [kW]
FLA: Full Load Ampere [A]
IFM: Indoor fan motor

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4 Safety device settings

4 - 1 Safety Device Settings

FXAQ-A

Safety devices		15	20	25	32	40	50	60
FXAQ~AUV1B	PCB fuse	250V, 3.15A						

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5 Options

5 - 1 Options

FXAQ-A

	Option kit	Product name	Availability VRV FXAQ15AUV1B	FXAQ20AUV1B	FXAQ25AUV1B	FXAQ32AUV1B	FXAQ40AUV1B	FXAQ50AUV1B	FXAQ63AUV1B
Individual control systems	Wired remote control	BRC1E53A7/B7/C7, BRC1D528, BRC1H51(9)W/S/K, BRC1H81W/S	✓	✓	✓	✓	✓	✓	✓
	Wireless remote control ·H/P·	BRC7EA628, BRC7EA629	✓	✓	✓	✓	✓	✓	✓
	Simplified remote control (with operation mode selector button)	BRC2E52C7	✓	✓	✓	✓	✓	✓	✓
	Simplified remote control (without operation mode selector button)	BRC3E52C7	✓	✓	✓	✓	✓	✓	✓
Centralised control systems	Central remote control	DCS302C51/DCS302CA61	✓	✓	✓	✓	✓	✓	✓
	Unified ON/OFF controller	DCS301A51/DCS301BA61	✓	✓	✓	✓	✓	✓	✓
	Schedule timer	DST301B51/DST301BA61	✓	✓	✓	✓	✓	✓	✓
Other options	Adaptor for wiring	KRP1B56	✓	✓	✓	✓	✓	✓	✓
	Wiring adaptor for electrical appendices ·1·	KRP2A51(3), KRP2A61(3)	✓	✓	✓	✓	✓	✓	✓
	Wiring adaptor for electrical appendices ·2·	KRP4AA51(3)	✓	✓	✓	✓	✓	✓	✓
	Remote sensor	KRCS01-1B	✓	✓	✓	✓	✓	✓	✓
	Installation box for adaptor PCB	KRP4AA93(1)(2)	✓	✓	✓	✓	✓	✓	✓
	Electrical box with earth terminal (·2· blocks)	KJB212AA	✓	✓	✓	✓	✓	✓	✓
	Electrical box with earth terminal (·3· blocks)	KJB311AA	✓	✓	✓	✓	✓	✓	✓
	Noise filter (for electromagnetic interface only)	KEK26-1A	✓	✓	✓	✓	✓	✓	✓
	External control adaptor for outdoor unit Must be installed on the outdoor unit	DTA104A51, DTA104A61	✓	✓	✓	✓	✓	✓	✓
	Adaptor for multi-tenant applications Must be installed on the outdoor unit	DTA114A61	✓	✓	✓	✓	✓	✓	✓
	Wire harness	EKEWTSC (4)	✓	✓	✓	✓	✓	✓	✓
	On/OFF thermostat (wireless)	K.RSS (5)	✓	✓	✓	✓	✓	✓	✓
	Drain pump kit	K-KDU572EVE	✓	✓	✓	✓	✓	✓	✓

①: Up to ·2· adaptor PCBs can be installed per installation box.
②: Only one installation box can be installed per indoor unit.
③: This option needs to be installed together with installation box ·KRP4AA93·.
④: Can only be used in combination with wireless room thermostat ·K.RSS·.
⑤: This option needs to be ordered together with ·EKEWTSC·.

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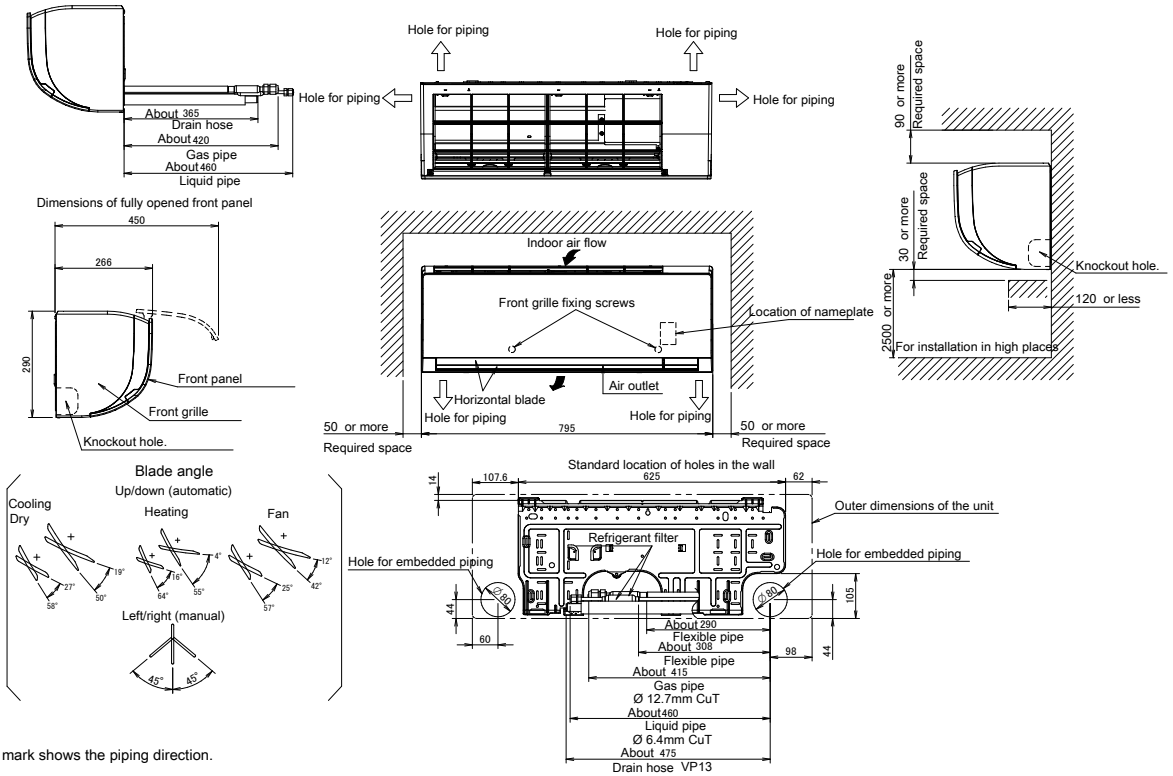
6 Dimensional drawings

6 - 1 Dimensional Drawings

FXAQ15-32A



Notes

1) The ⇨ mark shows the piping direction.

2) Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out.

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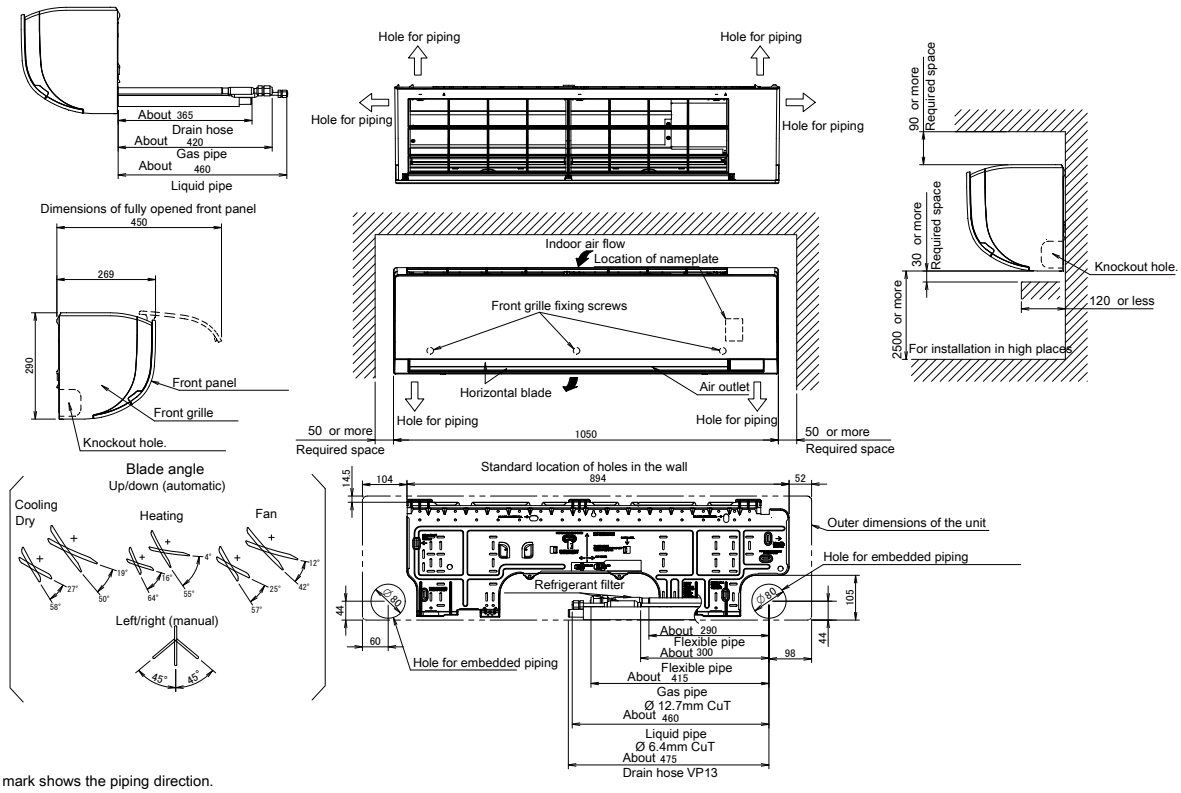
FXAQ40-50A



Notes

1) The ⇨ mark shows the piping direction.

2) Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out.

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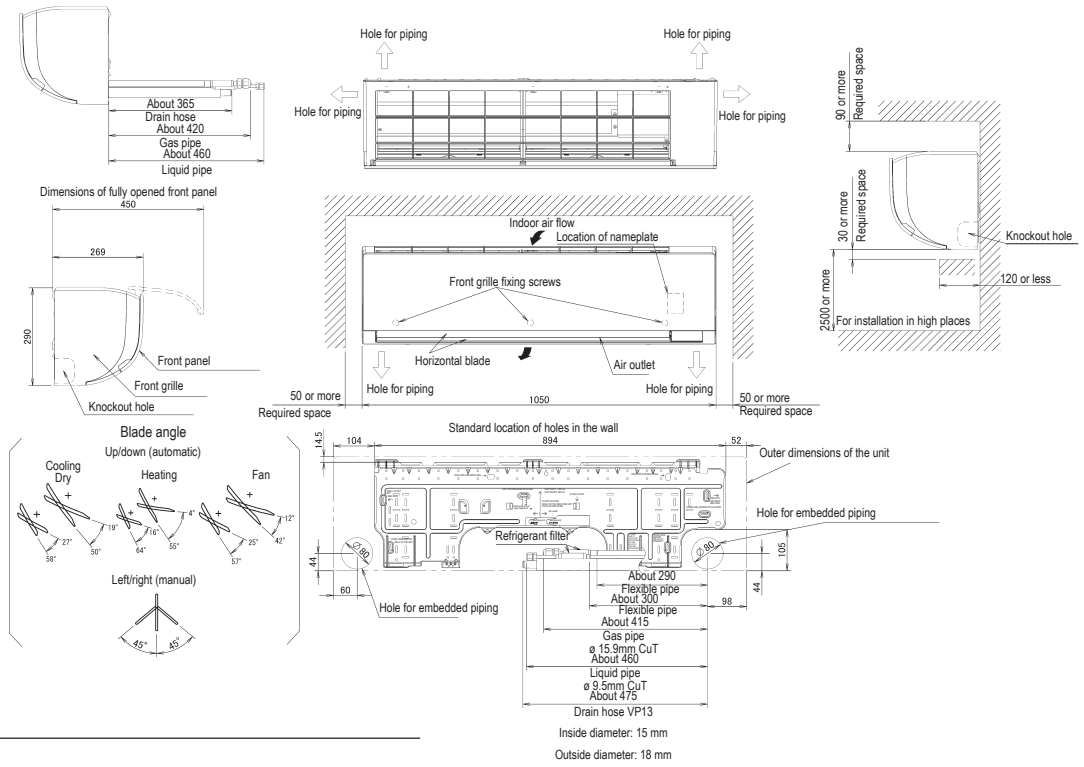
6 Dimensional drawings

6 - 1 Dimensional Drawings

FXAQ63A



NOTES

1. The mark ⇨ shows the piping direction.
2. Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets or dirty air filters, condensate may drop out.

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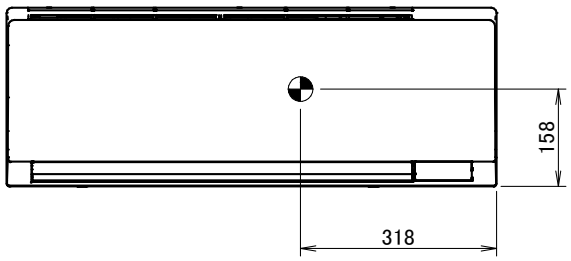
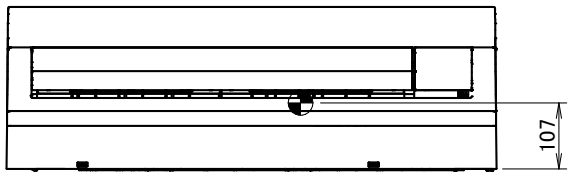
7 Centre of gravity

7 - 1 Centre of Gravity

FXAQ15-32A





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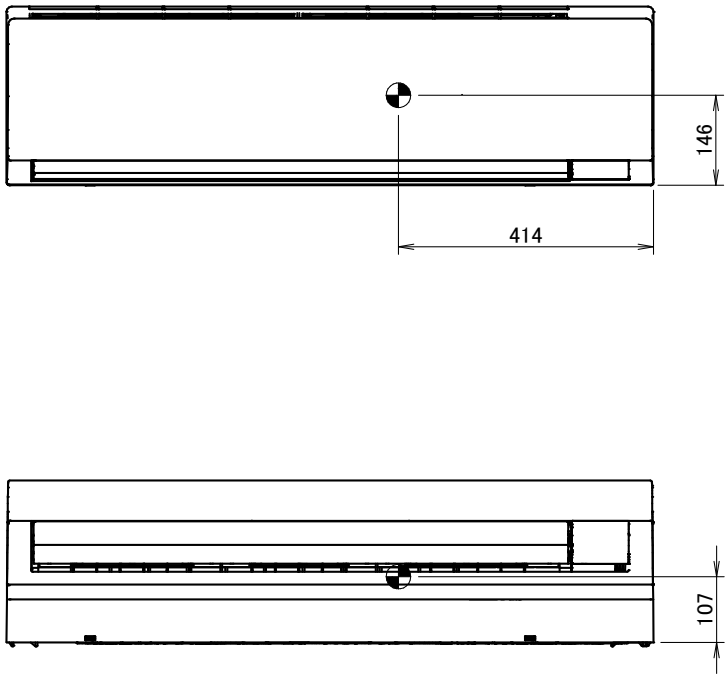
7 Centre of gravity

7 - 1 Centre of Gravity

FXAQ40-63A



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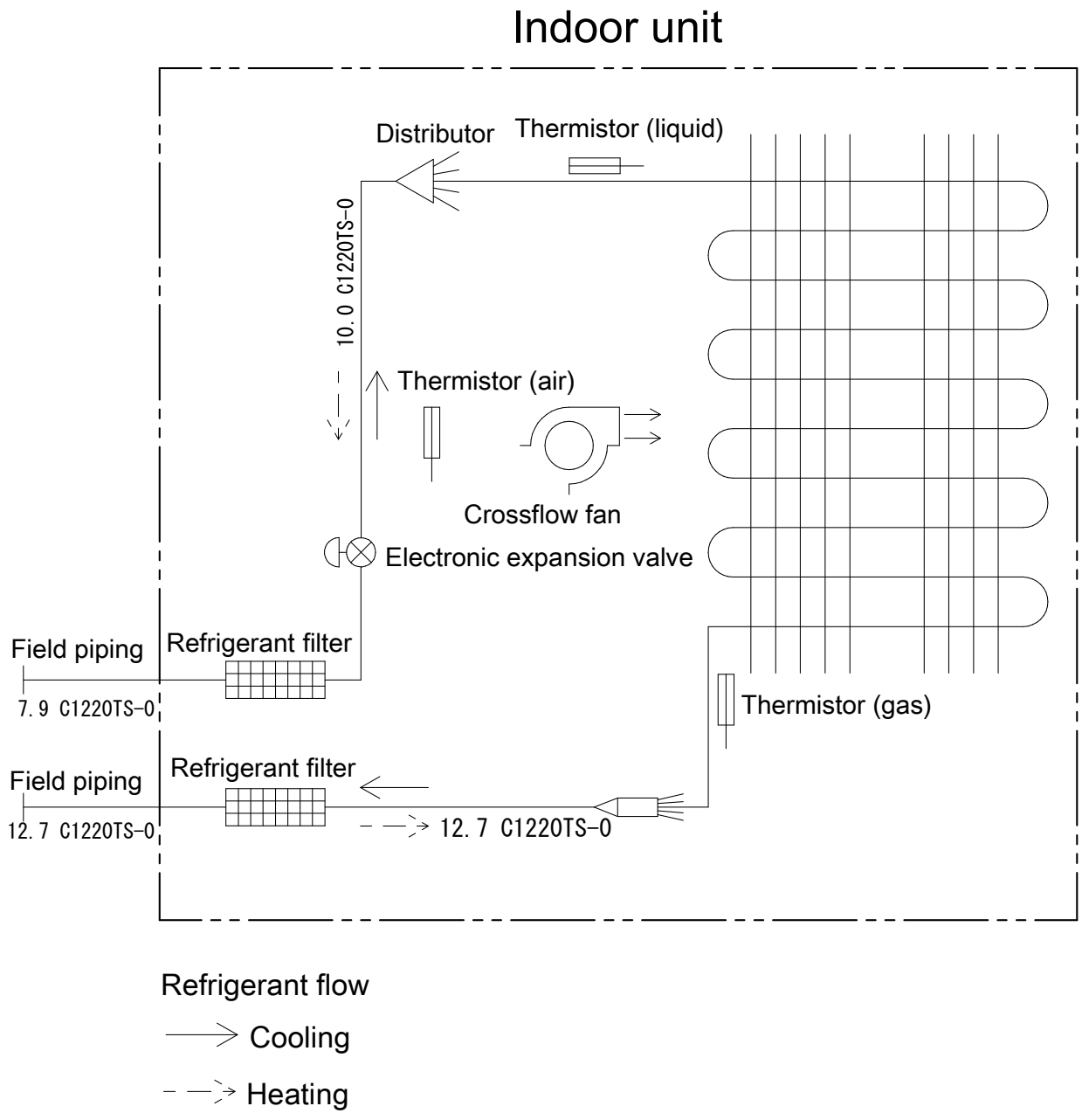
8 Piping diagrams

8 - 1 Piping Diagrams

FXAQ-A



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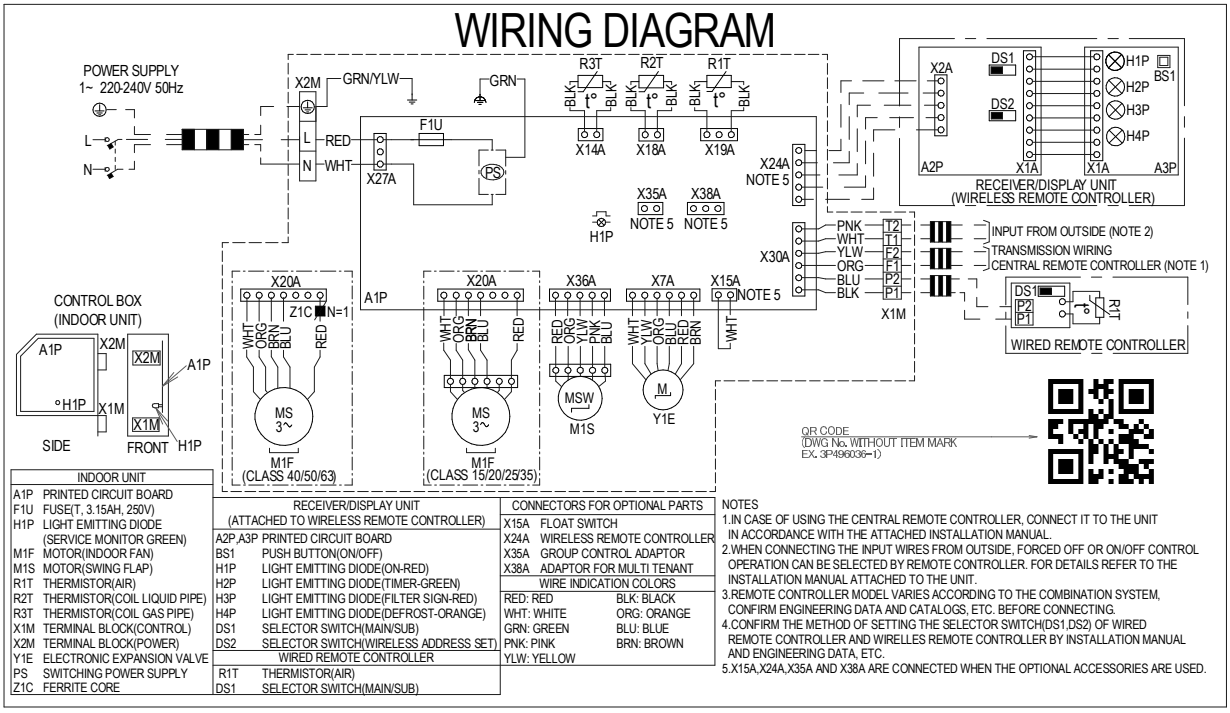
9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXAQ-A



INDOOR UNIT	
A1P	PRINTED CIRCUIT BOARD
F1U	FUSE(T, 3.15AH, 250V)
H1P	LIGHT EMITTING DIODE (SERVICE MONITOR GREEN)
M1F	MOTOR(INDOOR FAN)
M1S	MOTOR(SWING FLAP)
R1T	THERMISTOR(AIR)
R2T	THERMISTOR(COIL LIQUID PIPE)
R3T	THERMISTOR(COIL GAS PIPE)
X1M	TERMINAL BLOCK(CONTROL)
X2M	TERMINAL BLOCK(POWER)
Y1E	ELECTRONIC EXPANSION VALVE
PS	SWITCHING POWER SUPPLY
Z1C	FERRITE CORE

RECEIVER/DISPLAY UNIT (ATTACHED TO WIRELESS REMOTE CONTROLLER)	
A2P, A3P	PRINTED CIRCUIT BOARD
BS1	PUSH BUTTON(ON/OFF)
H1P	LIGHT EMITTING DIODE(ON-RED)
H2P	LIGHT EMITTING DIODE(TIMER-GREEN)
H3P	LIGHT EMITTING DIODE(FILTER SIGN-RED)
H4P	LIGHT EMITTING DIODE(DEFROST-ORANGE)
DS1	SELECTOR SWITCH(MAIN/SUB)
DS2	SELECTOR SWITCH(WIRELESS ADDRESS SET)
WIRED REMOTE CONTROLLER	
R1T	THERMISTOR(AIR)
DS1	SELECTOR SWITCH(MAIN/SUB)

CONNECTORS FOR OPTIONAL PARTS	
X15A	FLOAT SWITCH
X24A	WIRELESS REMOTE CONTROLLER
X35A	GROUP CONTROL ADAPTOR
X38A	ADAPTOR FOR MULTI TENANT

WIRE INDICATION COLORS	
RED: RED	BLK: BLACK
WHT: WHITE	ORG: ORANGE
GRN: GREEN	BLU: BLUE
PNK: PINK	BRN: BROWN
YLW: YELLOW	

NOTES
1. IN CASE OF USING THE CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTALLATION MANUAL.
2. WHEN CONNECTING THE INPUT WIRES FROM OUTSIDE, FORCED OFF OR ON/OFF CONTROL OPERATION CAN BE SELECTED BY REMOTE CONTROLLER. FOR DETAILS REFER TO THE INSTALLATION MANUAL ATTACHED TO THE UNIT.
3. REMOTE CONTROLLER MODEL VARIES ACCORDING TO THE COMBINATION SYSTEM, CONFIRM ENGINEERING DATA AND CATALOGS, ETC. BEFORE CONNECTING.
4. CONFIRM THE METHOD OF SETTING THE SELECTOR SWITCH(DS1,DS2) OF WIRED REMOTE CONTROLLER AND WIRELLES REMOTE CONTROLLER BY INSTALLATION MANUAL AND ENGINEERING DATA, ETC.
5. X15A, X24A, X35A AND X38A ARE CONNECTED WHEN THE OPTIONAL ACCESSORIES ARE USED.

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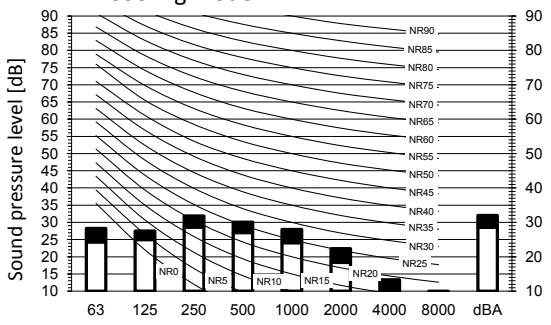
10 Sound data

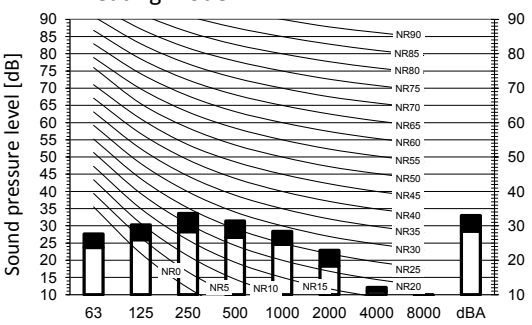
10 - 1 Sound Pressure Spectrum

FXAQ15A

Cooling mode



Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

C Fan speed: Low

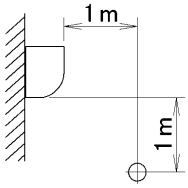
Cooling Total dB

A	B	C
dBA	32	28,5

Heating Total dB

A	B	C
dBA	33	28,5

Location of microphone



Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

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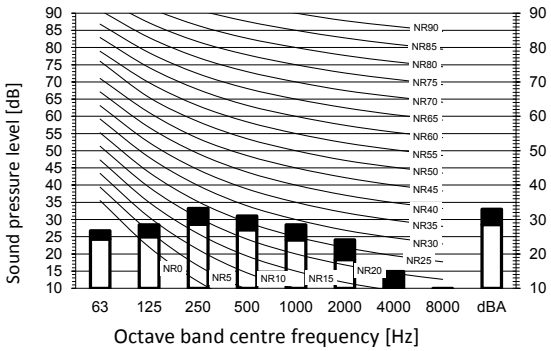
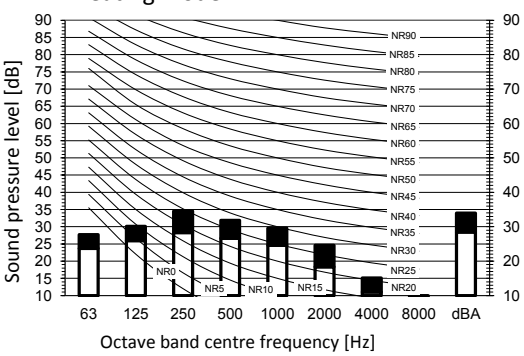
FXAQ20A

Cooling mode



Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

C Fan speed: Low

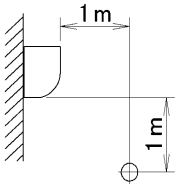
Cooling Total dB

A	B	C
dBA	33	28,5

Heating Total dB

A	B	C
dBA	34	28,5

Location of microphone



Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

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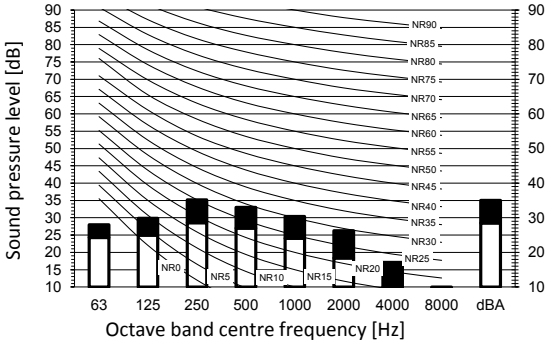
10 Sound data

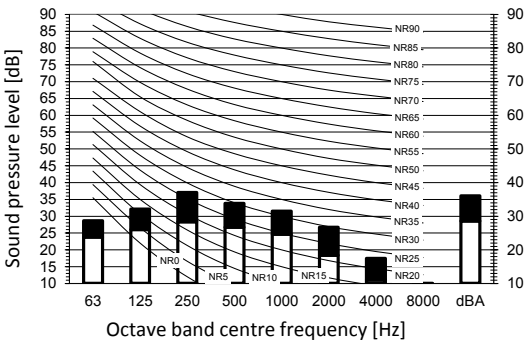
10 - 1 Sound Pressure Spectrum

FXAQ25A

Cooling mode



Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

C Fan speed: Low

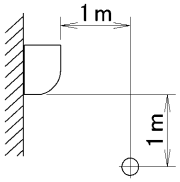
Cooling — Total dB

A	B	C
dBA	35	28,5

Heating — Total dB

A	B	C
dBA	36	28,5

Location of microphone



Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

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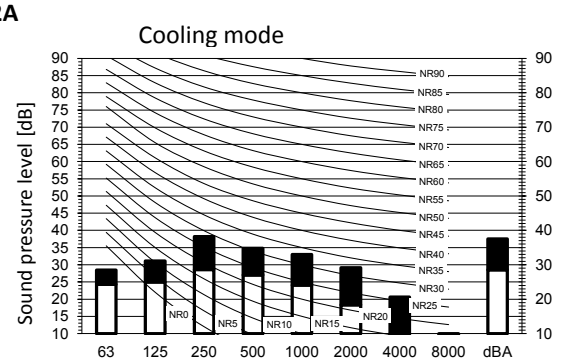
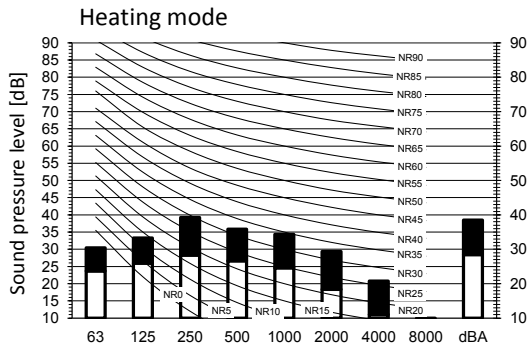
FXAQ32A

Cooling mode



Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

C Fan speed: Low

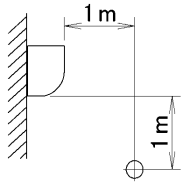
Cooling — Total dB

A	B	C
dBA	37,5	28,5

Heating — Total dB

A	B	C
dBA	38,5	28,5

Location of microphone



Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

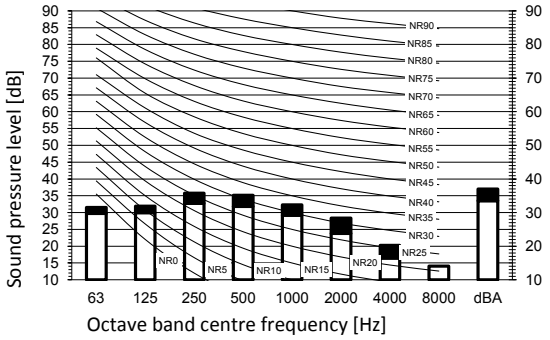
3D112491

10 Sound data

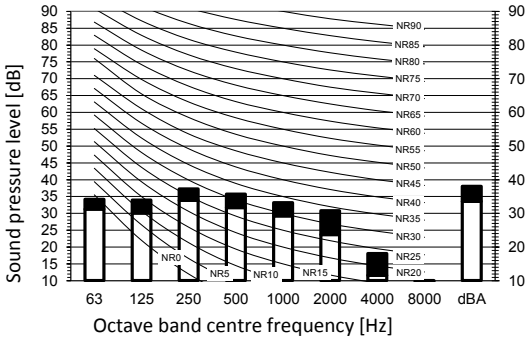
10 - 1 Sound Pressure Spectrum

FXAQ40A

Cooling mode



Heating mode



Legend

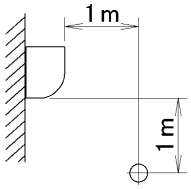
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

C Fan speed: Low

Location of microphone



Cooling Total dB

A	B	C
dBA	37	33,5

Heating Total dB

A	B	C
dBA	38	33,5

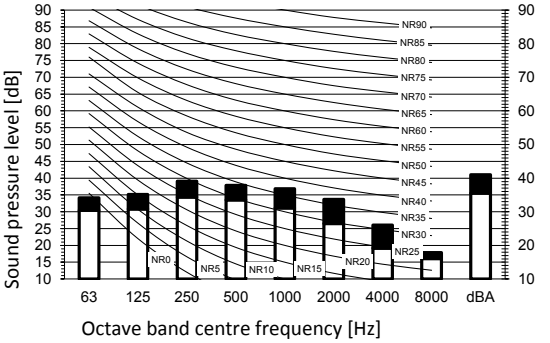
Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

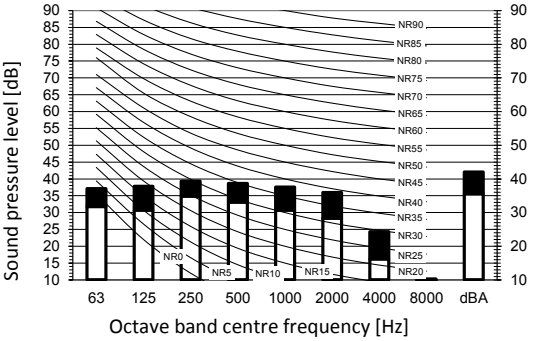
3D112492

FXAQ50A

Cooling mode



Heating mode



Legend

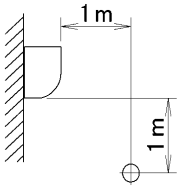
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

C Fan speed: Low

Location of microphone



Cooling Total dB

A	B	C
dBA	41	35,5

Heating Total dB

A	B	C
dBA	42	35,5

Notes

1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

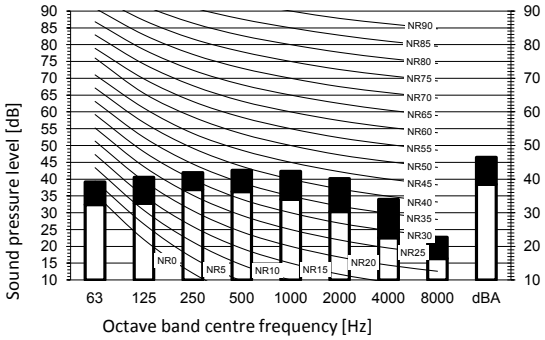
3D112493

10 Sound data

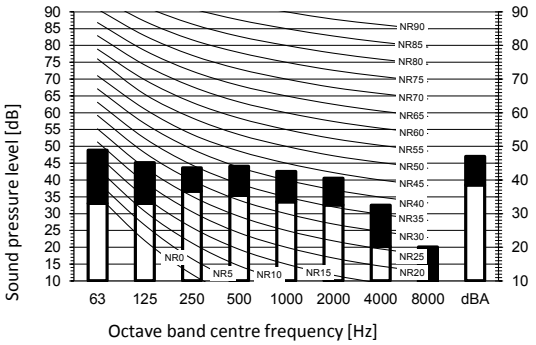
10 - 1 Sound Pressure Spectrum

FXAQ63A

Cooling mode



Heating mode



Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale
B Fan speed: High
C Fan speed: Low

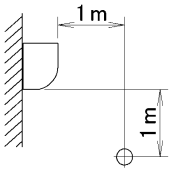
Cooling — Total dB

A	B	C
dBA	46,5	38,5

Heating — Total dB

A	B	C
dBA	47	38,5

Location of microphone



Notes

1 . Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

2 . Background noise already taken into account.

3 . Operating noise varies depending on operation and ambient conditions.

4 . The operation noise measuring method is in accordance with JISC9612.

5 . Measuring location: anechoic chamber

3D112494

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