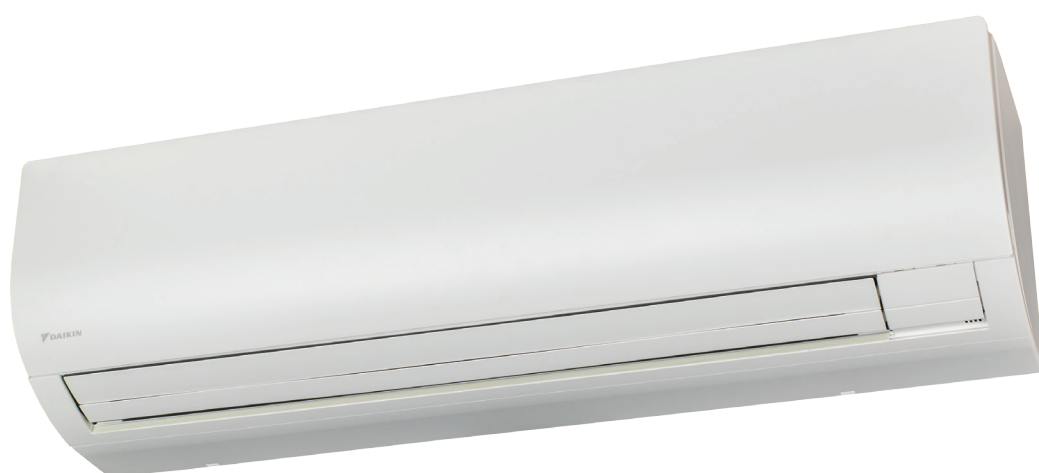


Wall mounted unit Air Conditioning Technical Data FXAQ-A



FXAQ15AUV1B
FXAQ20AUV1B
FXAQ25AUV1B
FXAQ32AUV1B
FXAQ40AUV1B
FXAQ50AUV1B
FXAQ63AUV1B

TABLE OF CONTENTS

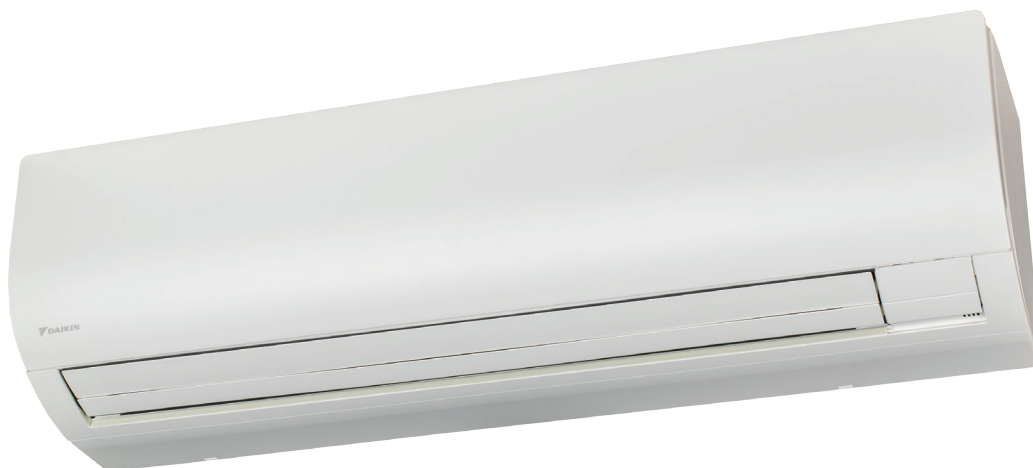
FXAQ-A

1	Features	4
	FXAQ-A	4
2	Specifications	5
3	Electrical data	6
4	Safety device settings	7
5	Options	8
6	Capacity tables	9
	Cooling Capacity Tables	9
	Heating Capacity Tables	10
7	Dimensional drawings	11
8	Centre of gravity	13
9	Piping diagrams	15
10	Wiring diagrams	16
	Wiring Diagrams - Single Phase	16
11	Sound data	17
	Sound Pressure Spectrum	17

1 Features

1 - 1 FXAQ-A

- › 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 (2 steps)



Dry programme



Air filter



Weekly timer (optional)



Infrared remote control (optional)



Wired remote control (optional)



Centralised control (optional)



Auto-restart



Self diagnosis



Multi tenant (optional)



Drain pump kit (optional)

2 Specifications

2 - 1 FXAQ-A

Technical specifications				FXAQ15A	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	FXAQ63A	
Cooling capacity	Sensible capacity	At high fan speed	kW	150	190	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	17 (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	19 (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		m²	0.161				0.213			
	Stages	Quantity		14							
Fan	Type			Cross flow fan							
	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	8.4	9.1	9.4	9.8	12.2	14.4	18.3
			At low fan speed	m³/min	7.0				9.7	11.5	13.5
Fan motor	Drive			Direct drive							
Sound power level	Cooling	At high fan speed	dB(A)	51.0	52.0	53.0	55.0		58.0	63.0	
Sound pressure level	Cooling	At high fan speed	dB(A)	32.0	33.0	35.0	37.5	37.0	41.0	46.5	
		At low fan speed	dB(A)	28.5				33.5	35.5	38.5	
	Heating	At high fan speed	dB(A)	33.0	34.0	36.0	38.5	38.0	42.0	47.0	
		At low fan speed	dB(A)	28.5				33.5	35.5	38.5	
Fan motor	Model			KFD-280-40-8K				ARW30W8P43DK			
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							

generation.notes.standard_accessories: Installation panel;generation.notes.quantity: 1;

generation.notes.standard_accessories: Installation panel;generation.notes.quantity: 1;

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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) |

(3)Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat. |

(4)Sound levels are measured in an anechoic room. |

(5)Operation sound differs with operation and ambient conditions |

(6)The sound pressure level is measured via a microphone at 1m distance of the unit. |

(7)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |

(8)Maximum allowable voltage range variation between phases is 2%. |

(9)MCA/MFA: MCA = 1.25 x FLA |

(10)Contains fluorinated greenhouse gases |

(11)Instead of a fuse, use a circuit breaker |

(12>Select wire size based on the value of MCA |

(13)Next lower standard fuse rating minimum 16A |

(14)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

3D113203A

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

5

FXAQ-A

	Option kit	Product name	Availability
			VRV
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-KDU572KVE	✓

- 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 Capacity tables

6 - 1 Cooling Capacity Tables

FXAQ-A

Unit size	Outdoor air temperature	14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
		20.0DB		23.0DB		26.0DB		27.0DB		28.0DB		30.0DB		32.0DB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
15	35.0	1.1	1.1	1.4	1.4	1.6	1.4	1.7	1.5	1.8	1.5	1.8	1.4	1.9	1.4
20	35.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.9	2.4	1.8
25	35.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.0	2.2	3.1	2.1
32	35.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	3.9	2.6	4.0	2.5
40	35.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.7	3.6	4.9	3.4	5.0	3.1
50	35.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	5.9	4.3	6.0	4.1	6.2	3.8
63	35.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.5	5.4	7.7	5.2	7.8	4.7

TC Total capacity [kW]

SHC: Sensible heat capacity [kW]

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6 Capacity tables

6 - 2 Heating Capacity Tables

FXAQ-A

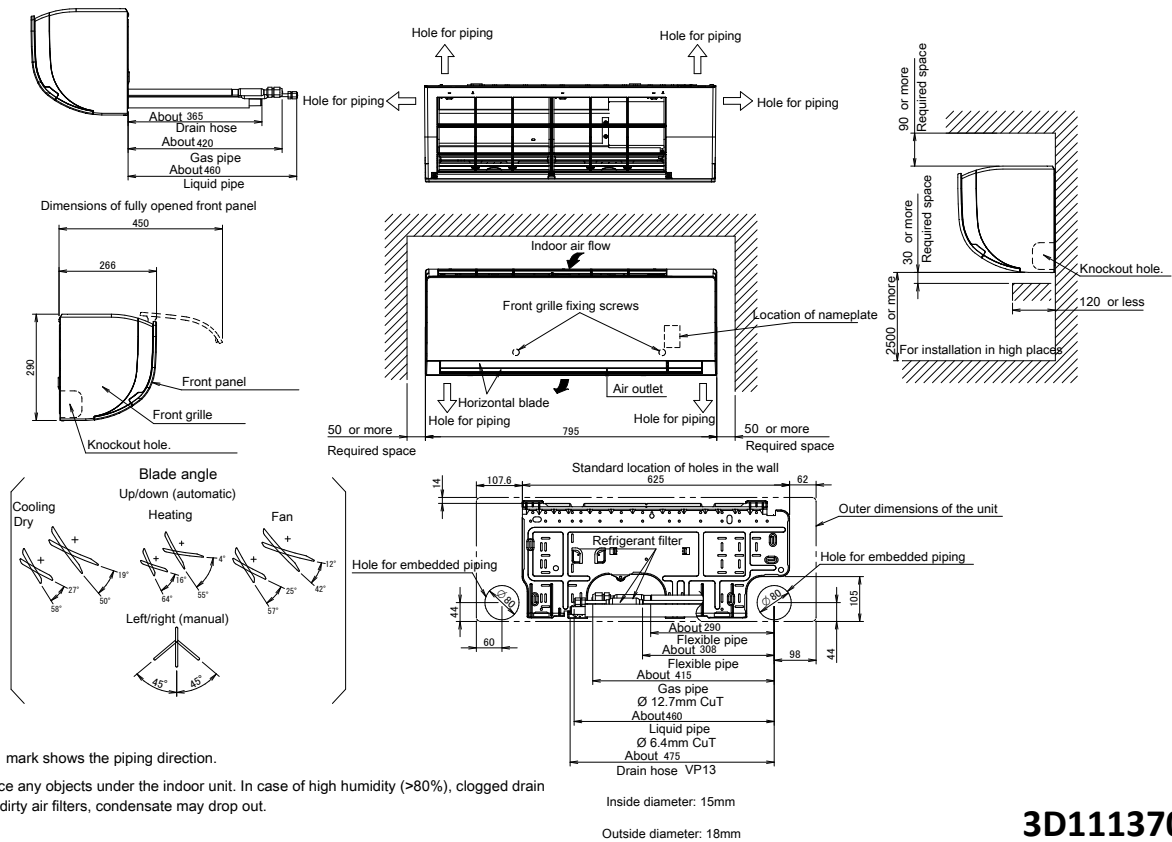
Unit size	Outdoor air temperature		Indoor air temperature [°C DB]					
			16.0	18.0	20.0	21.0	22.0	24.0
	[°C DB]	[°C WB]	KW	KW	KW	KW	KW	KW
15	7.0	6.0	2.0	2.0	1.9	1.8	1.8	1.7
20	7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
25	7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
32	7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
40	7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
50	7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
63	7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0

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7 Dimensional drawings

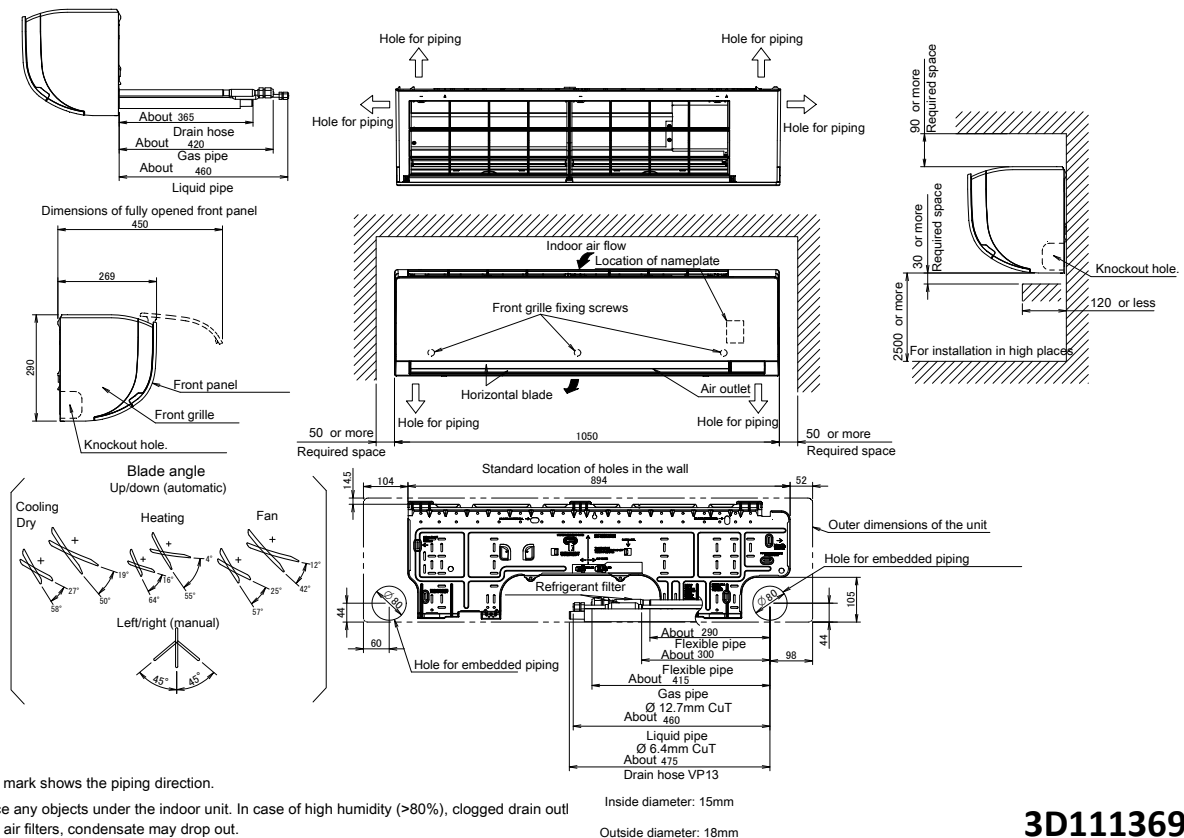
7 - 1 Dimensional Drawings

FXAQ15-32A



3D111370

FXAQ40-50A

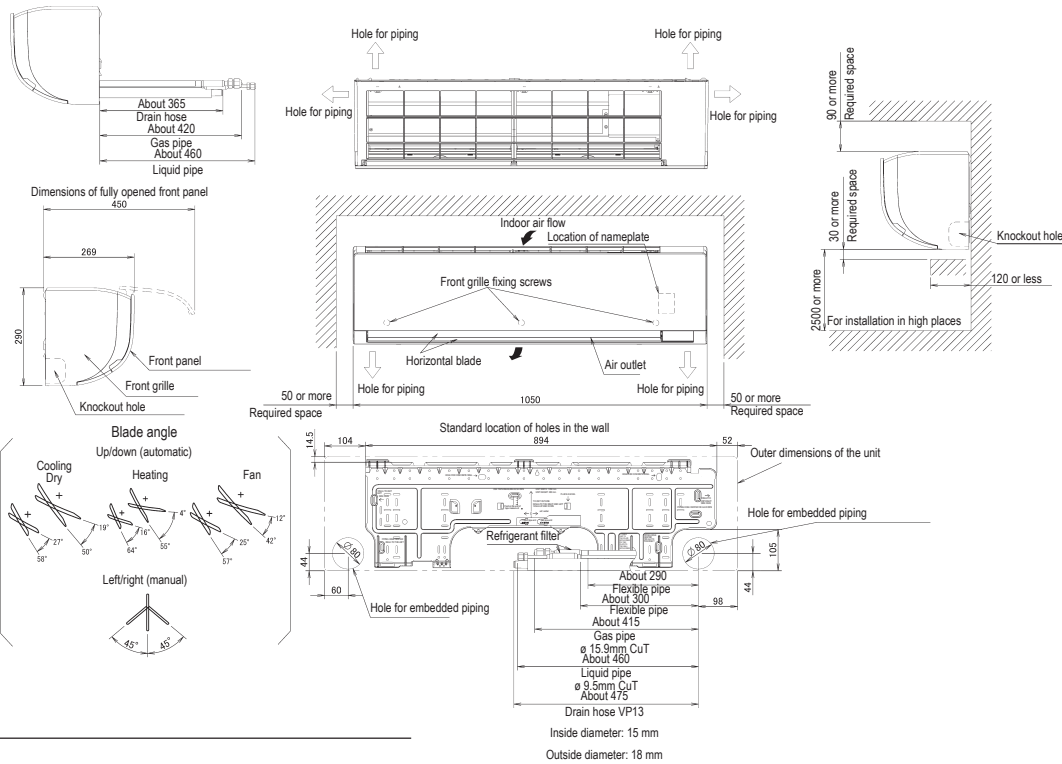


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7 Dimensional drawings

7 - 1 Dimensional Drawings

FXAQ63A



NOTES

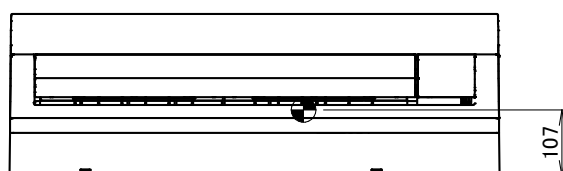
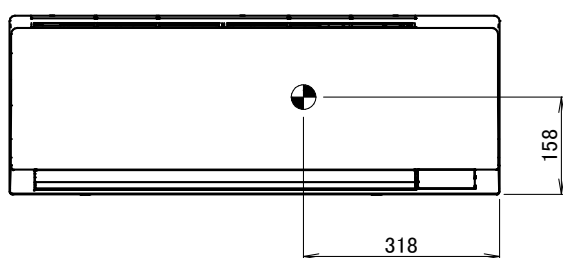
1. The mark shows the piping direction.
2. Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets or dirty air filters, condensate may drop out.

3D111368

8 Centre of gravity

8 - 1 Centre of Gravity

FXAQ15-32A



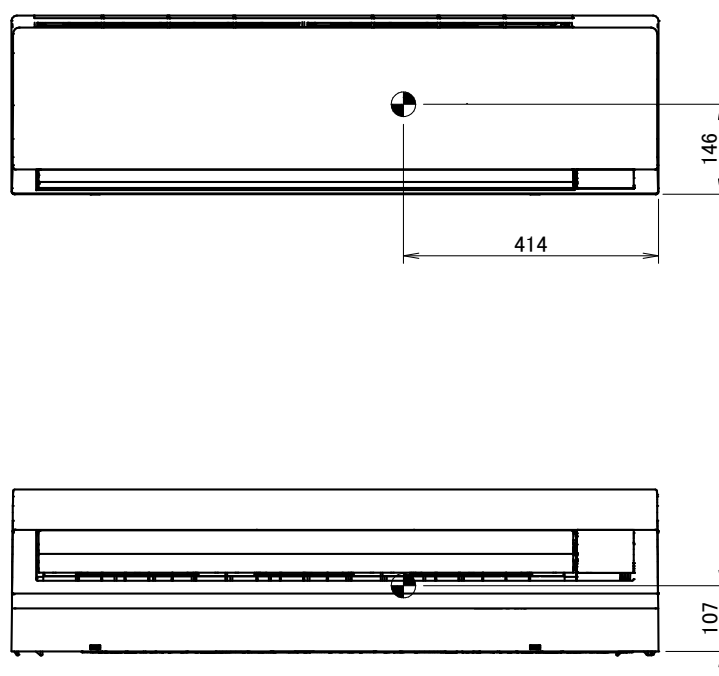
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8 Centre of gravity

8 - 1 Centre of Gravity

FXAQ40-63A

8



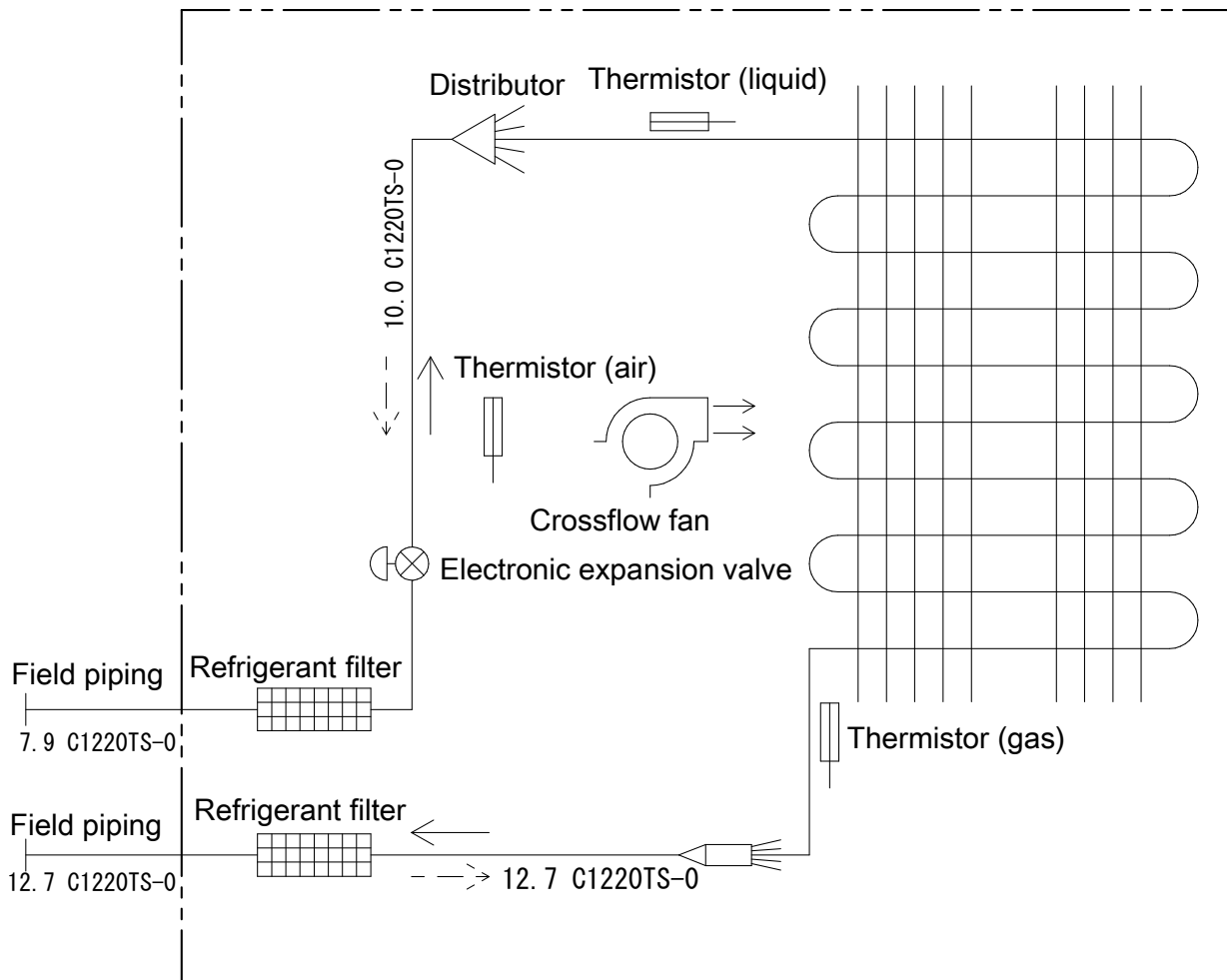
4D112525

9 Piping diagrams

9 - 1 Piping Diagrams

FXAQ-A

Indoor unit



Refrigerant flow

—> Cooling

- -> Heating

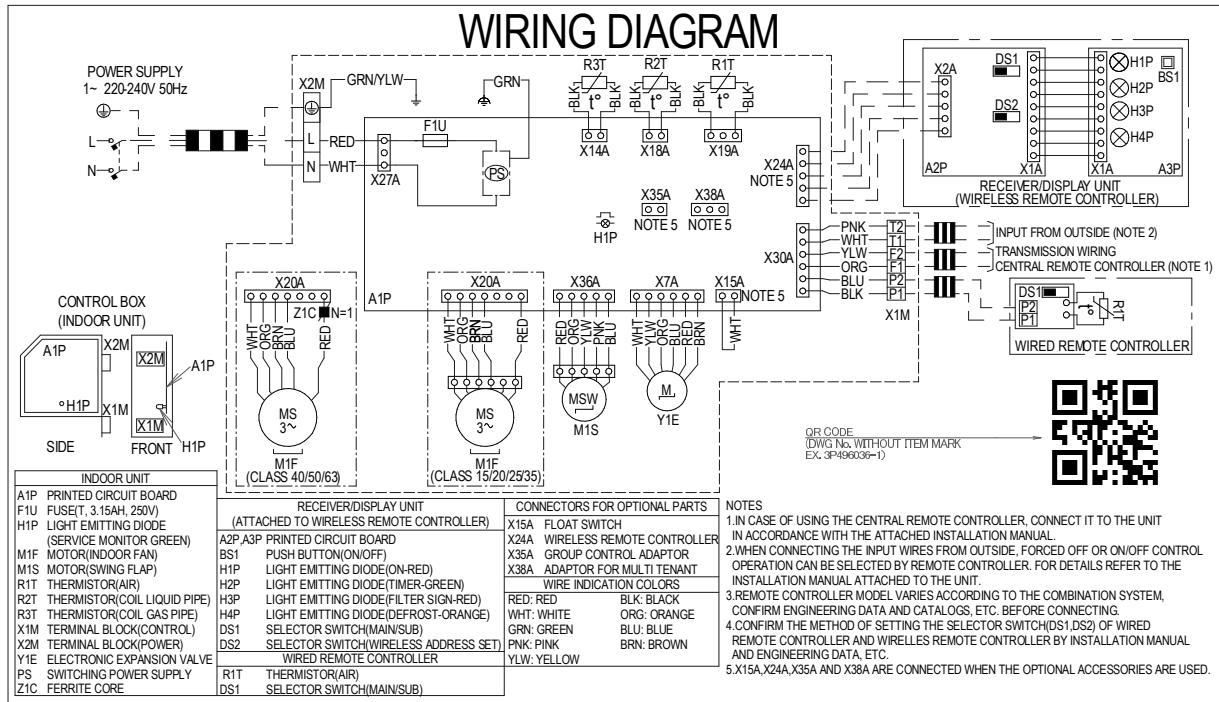
4D112474

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXAQ-A

10

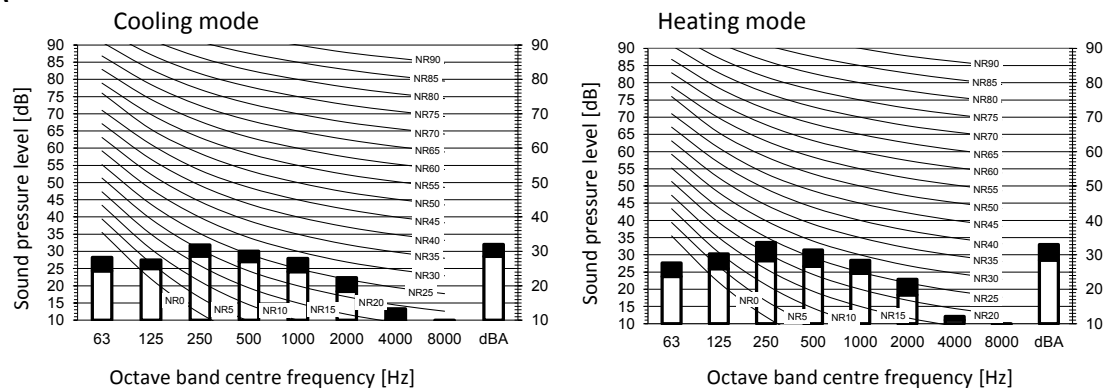


3D108400-1A

11 Sound data

11 - 1 Sound Pressure Spectrum

FXAQ15A



Legend

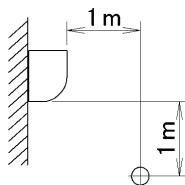
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

C Fan speed: Low

Location of microphone



Cooling		
Total dB		
A	B	C
dBA	32	28,5

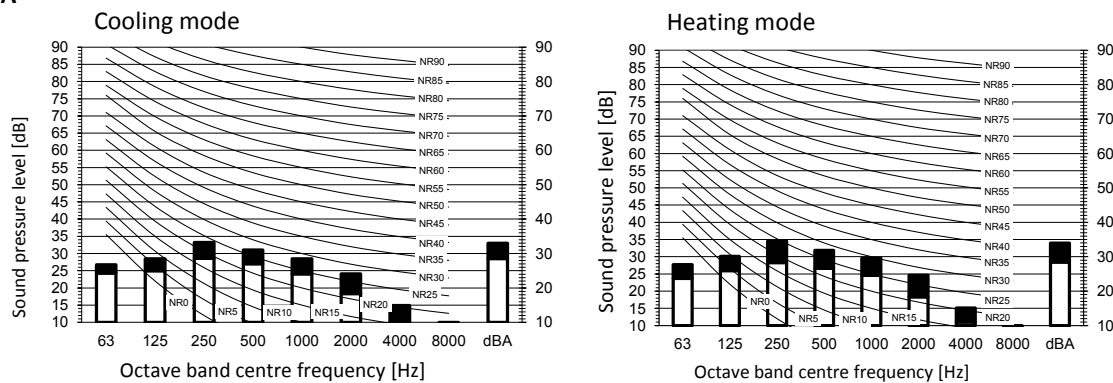
Heating		
Total dB		
A	B	C
dBA	33	28,5

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

3D112488

FXAQ20A



Legend

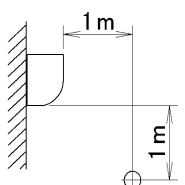
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

C Fan speed: Low

Location of microphone



Cooling		
Total dB		
A	B	C
dBA	33	28,5

Heating		
Total dB		
A	B	C
dBA	34	28,5

Notes

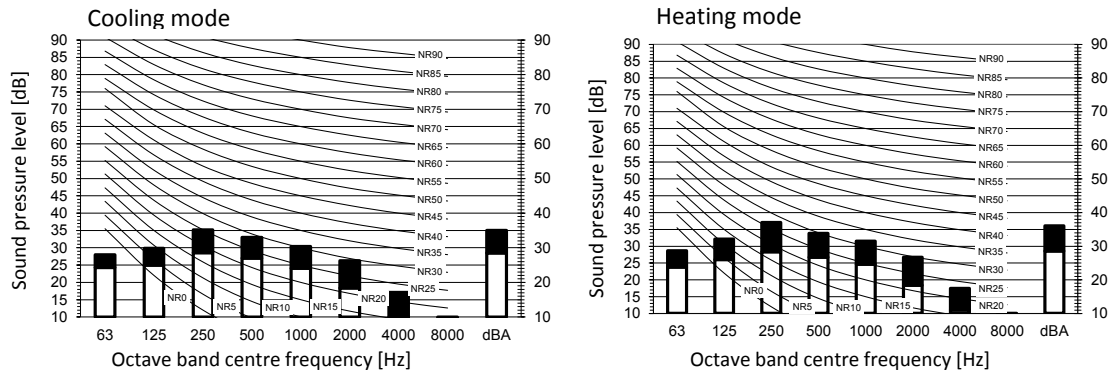
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D112489

11 Sound data

11 - 1 Sound Pressure Spectrum

FXAQ25A

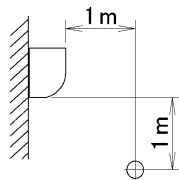


Legend

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	35	28,5

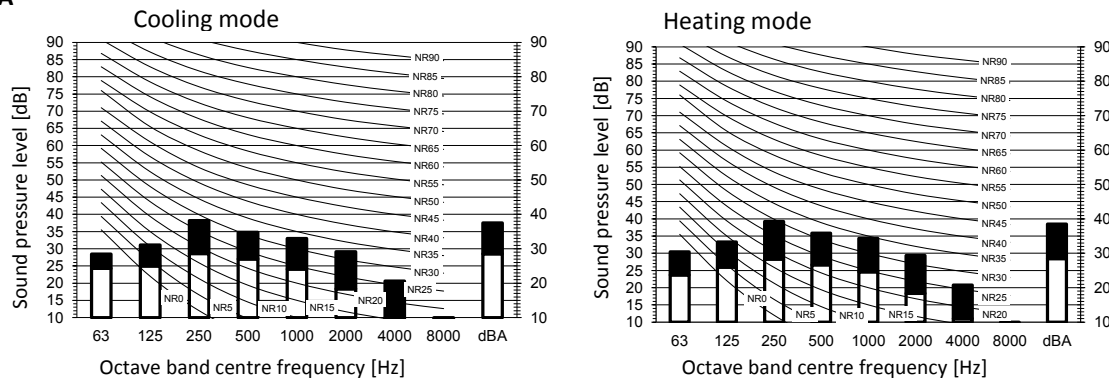
Heating		
Total dB		
A	B	C
dBA	36	28,5

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

3D112490

FXAQ32A

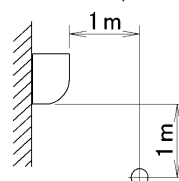


Legend

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	37,5	28,5

Heating		
Total dB		
A	B	C
dBA	38,5	28,5

Notes

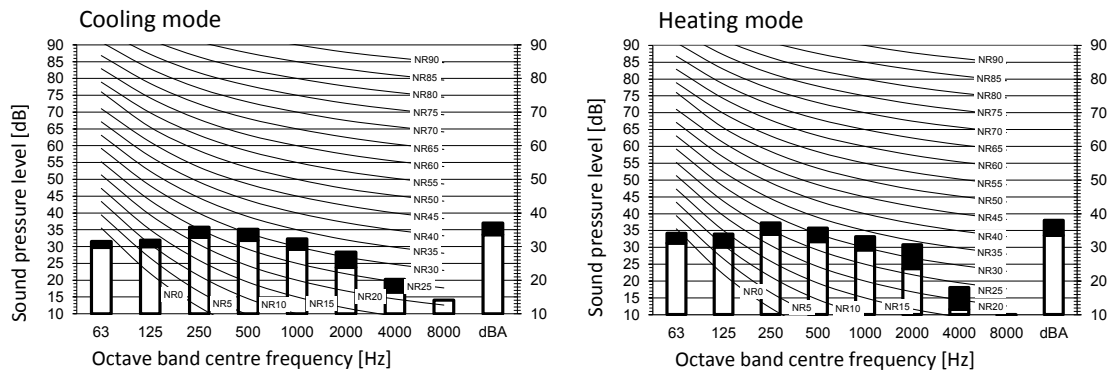
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D112491

11 Sound data

11 - 1 Sound Pressure Spectrum

FXAQ40A



Legend

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

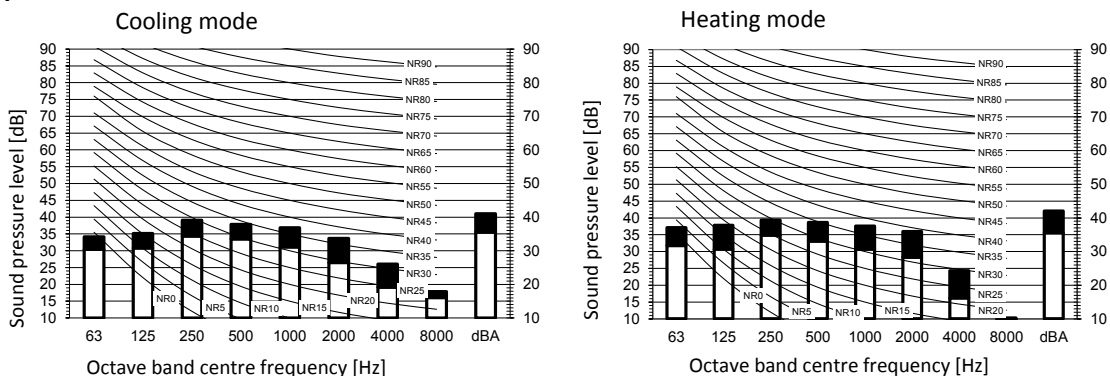
Cooling			Heating		
Total dB			Total dB		
A	B	C	A	B	C
dBA	37	33,5	dBA	38	33,5

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



Legend

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

Cooling			Heating		
Total dB			Total dB		
A	B	C	A	B	C
dBA	41	35,5	dBA	42	35,5

Notes

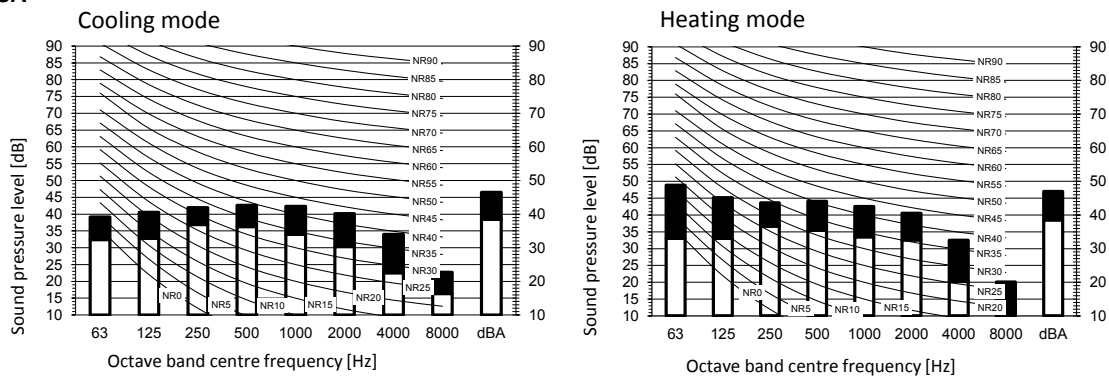
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D112493

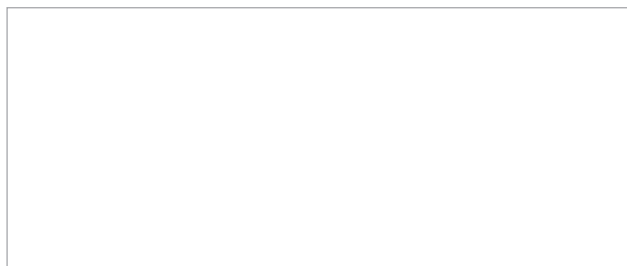
11 Sound data

11 - 1 Sound Pressure Spectrum

FXAQ63A



3D112494



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08/2022



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