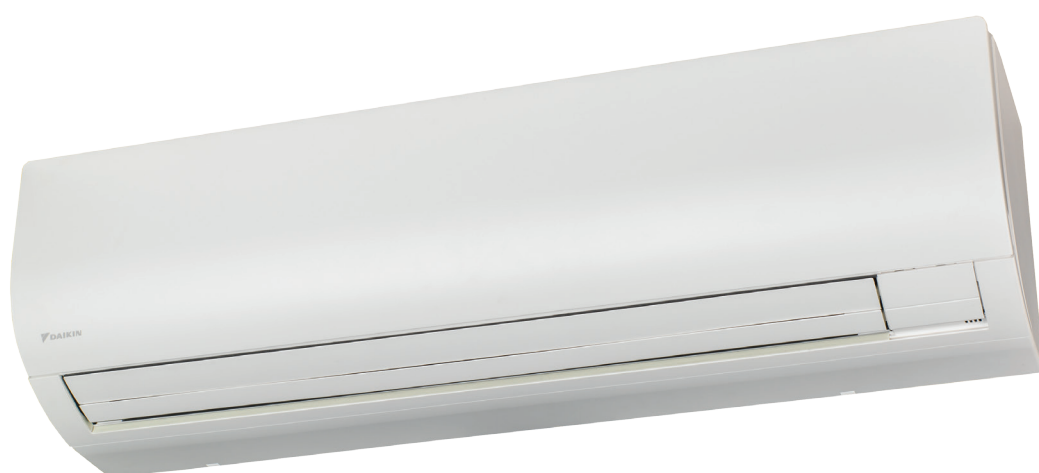


Wall mounted unit Technical data book FXAQ-A



FXAQ15AUV1B
FXAQ20AUV1B
FXAQ25AUV1B
FXAQ32AUV1B
FXAQ40AUV1B
FXAQ50AUV1B
FXAQ63AUV1B

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FXAQ-A

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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 Specification				FXAQ15A	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A	
Cooling capacity	Sensible capacity	At high fan speed	kW	1.50	1.90	2.20	2.70	3.50	4.20	
	Latent capacity	At high fan speed	kW	0.20	0.30	0.60	0.90	1.00	1.40	
	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)	
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)	
Power input - 50Hz	Cooling	At high fan speed	kW	0.02		0.03		0.02	0.03	
	Heating	At high fan speed	kW	0.03		0.04		0.02	0.04	
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
			At low fan speed	m ³ /min	7.0				9.7	11.5
Sound power level	Cooling	At high fan speed	dB(A)	51.0	52.0	53.0	55.0		58.0	
Sound pressure level	Cooling	At high fan speed	dB(A)	32.0	33.0	35.0	37.5	37.0	41.0	
		At low fan speed	dB(A)	28.5				33.5	35.5	
	Heating	At high fan speed	dB(A)	33.0	34.0	36.0	38.5	38.0	42.0	
		At low fan speed	dB(A)	28.5				33.5	35.5	
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						
	Gas	Type		Flare connection						
		OD	mm	12.7						
	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						
	Wired remote control			BRC1H519W/S/K / BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52						

Technical Specification					FXAQ63A						
Cooling capacity	Sensible capacity	At high fan speed		kW	5.30						
	Latent capacity	At high fan speed		kW	1.80						
	Total capacity	At high fan speed		kW	7.1 (1)						
Heating capacity	Total capacity	At high fan speed		kW	8.0 (2)						
Power input - 50Hz	Cooling	At high fan speed		kW	0.05						
	Heating	At high fan speed		kW	0.06						
Dimensions	Unit	Height	mm		290						
		Width	mm		1,050						
		Depth	mm		269						
Weight	Unit			kg	15						
Casing	Colour					White					
Heat exchanger	Rows	Quantity					2				
	Fin pitch			mm		1.4					
	Face area			m²		0.213					
	Stages	Quantity					14				
Fan	Type				Cross flow fan						
	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	18.3						
			At low fan speed	m³/min	13.5						
Sound power level	Cooling	At high fan speed		dB(A)	63.0						
Sound pressure level	Cooling	At high fan speed		dB(A)	46.5						
		At low fan speed		dB(A)	38.5						
	Heating	At high fan speed		dB(A)	47.0						
		At low fan speed		dB(A)	38.5						

2 Specifications

1 - 1 FXAQ-A

2

Technical Specification			FXAQ63A
Fan motor	Model		ARW30W8P43DK
	Drive		Direct drive
Refrigerant	Type		R-410A
	GWP		2,087.5
	Control		Electronic expansion valve
Piping connections	Liquid	Type	Flare connection
		OD mm	9.52
	Gas	Type	Flare connection
		OD mm	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
	Wired remote control		BRC1H519W/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 Specification			FXAQ15A	FXAQ20A	FXAQ25A	FXAQ32A	FXAQ40A	FXAQ50A
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
	Maximum fuse amps (MFA)	A	16					
	Full load amps (FLA) Total	A	0.2			0.3		0.4

Electrical Specification			FXAQ63A
Power supply	Name		V1
	Phase		1~
	Frequency	Hz	50
	Voltage	V	220-240
Current - 50Hz	Minimum circuit amps (MCA)	A	0.7
	Maximum fuse amps (MFA)	A	16
	Full load amps (FLA) Total	A	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

3D113203A

4 Safety device settings

4 - 1 Safety Device Settings

FXAQ-A

4

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
Individual control systems	Wired remote control	BRC1E53A7/B7/C7, BRC1D528, BRC1H51(9)W/S/K, BRC1H81W/S	✓
	Wireless remote control (H/P)	BRC7E628, BRC7E629	✓
	Simplified remote control (with operation mode selector button)	BRCZE52C7	✓
	Simplified remote control (without operation mode selector button)	BRCZE52C7	✓
	Central remote control	DCS302C51/DCS302CA61	✓
Centralised control systems	Unified ON/OFF controller	DCS301A51/DCS301BA61	✓
	Schedule timer	DST301B51/DST301BA61	✓
	Adaptor for wiring	KRP1B56	✓
Other options	Wiring adaptor for electrical appendices -1-	KRP2A51 (3), KRP2A61 (3)	✓
	Wiring adaptor for electrical appendices -2-	KRP4AA51 (3)	✓
	Remote sensor	KRC501-1B	✓
	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	DTA104A51, DTA104A61	✓
	Must be installed on the outdoor unit		
	Adaptor for multi-tenant applications	DTA114A61	✓
	Must be installed on the outdoor unit		
	Wire harness	EKEWTSC (4)	✓
	On/OFF thermostat (wireless)	K.RSS (3)	✓

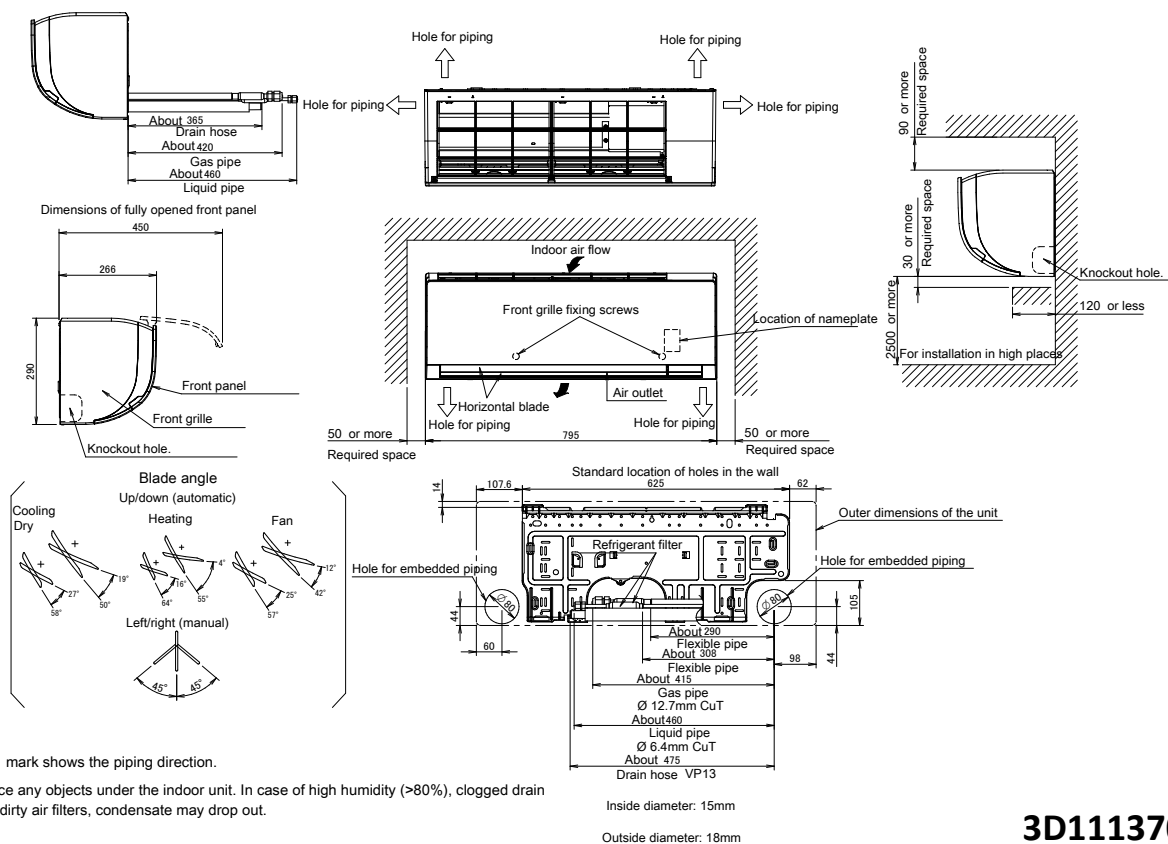
- ①: Up to -2- adaptor PCBs can be installed per installation box.
 ②: Only one installation box can be installed per indoor unit.
 ③: This option needs to be installed together with installation box -KRP4AA93-.
 ④: Can only be used in combination with wireless room thermostat -K.RSS-.
 ⑤: This option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

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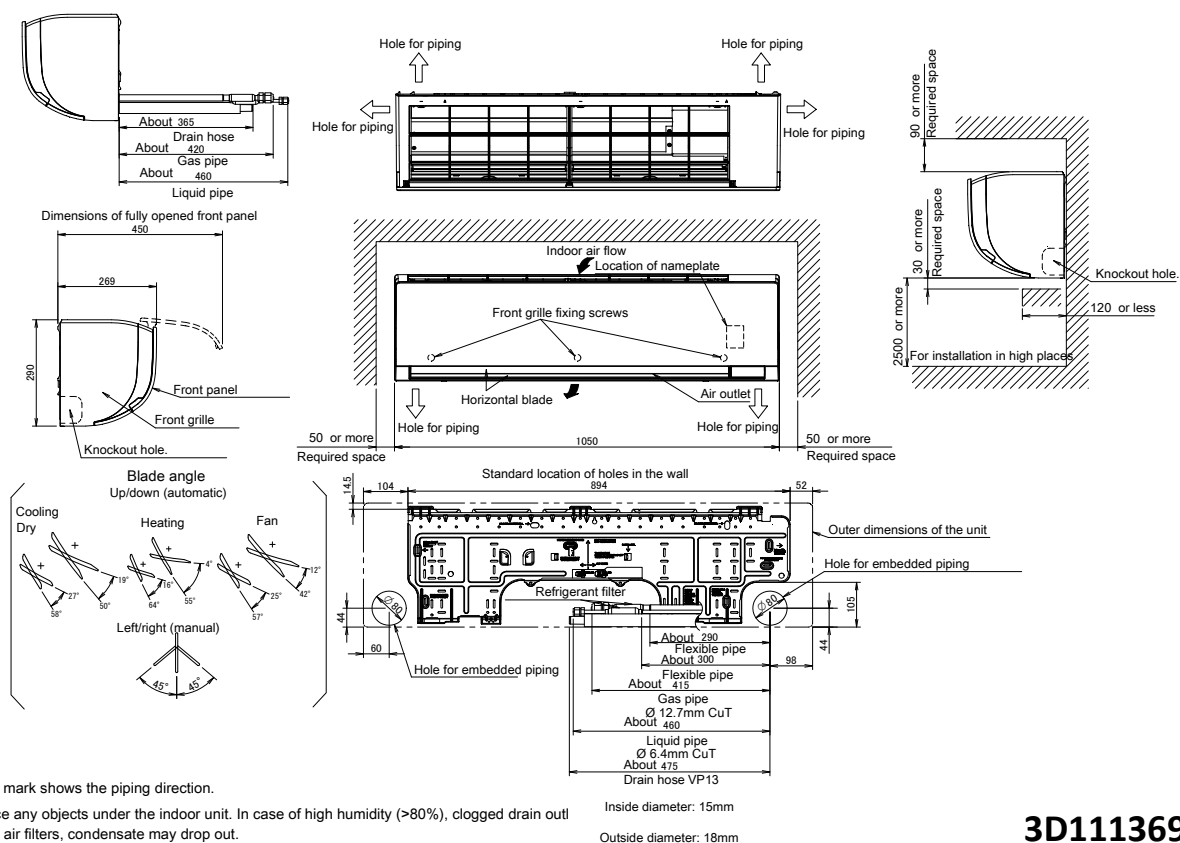
6 Dimensional drawings

6 - 1 Dimensional Drawings

FXAQ15-32A



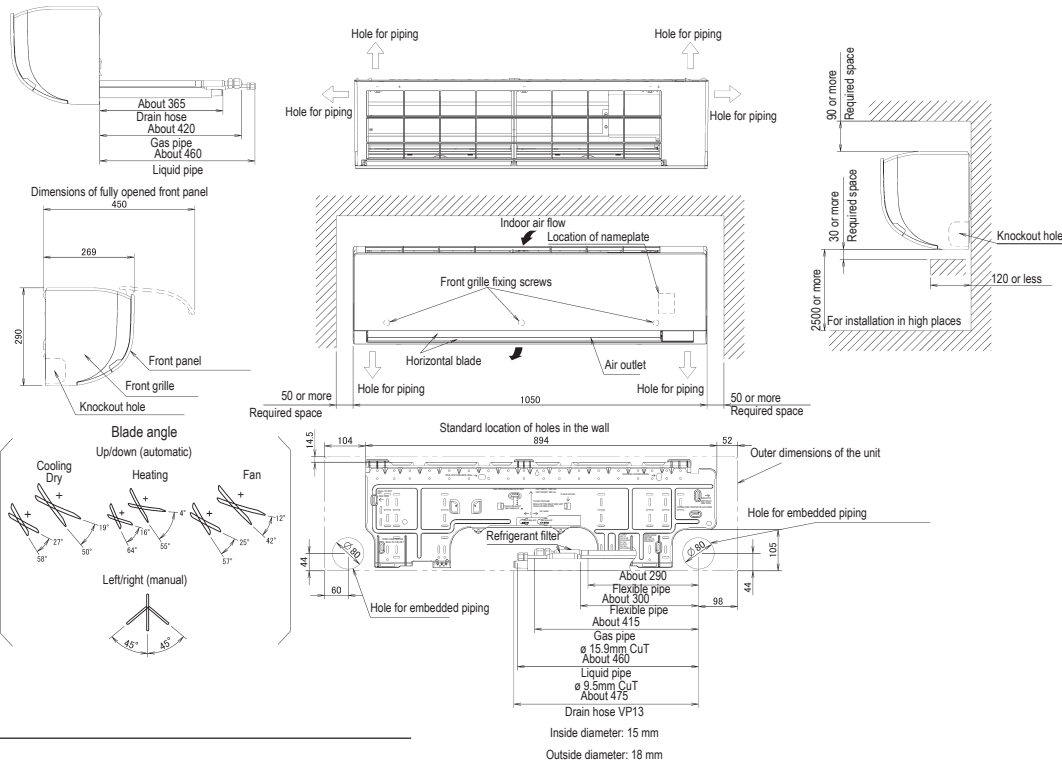
FXAQ40-50A



6 Dimensional drawings

6 - 1 Dimensional Drawings

FXAQ63A



NOTES

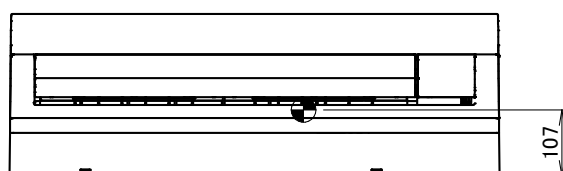
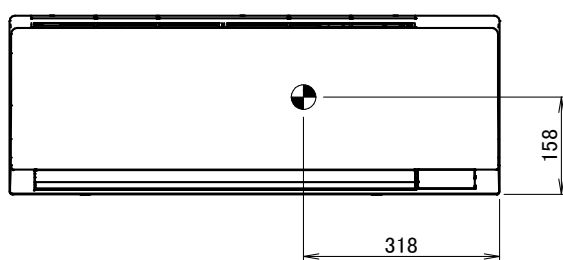
1. The mark shows the piping direction.
2. Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets or dirty air filters, condensate may drop out.

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7 Centre of gravity

7 - 1 Centre of Gravity

FXAQ15-32A

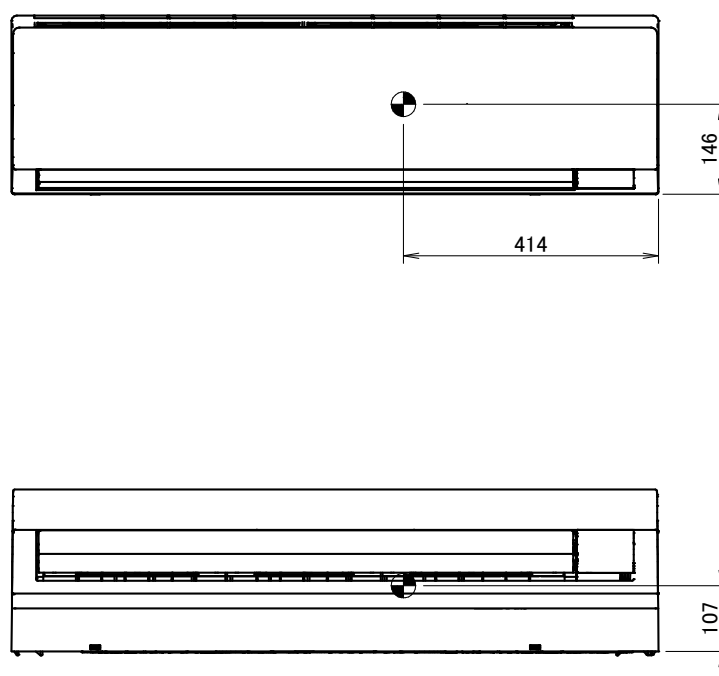


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7 Centre of gravity

7 - 1 Centre of Gravity

FXAQ40-63A



4D112525

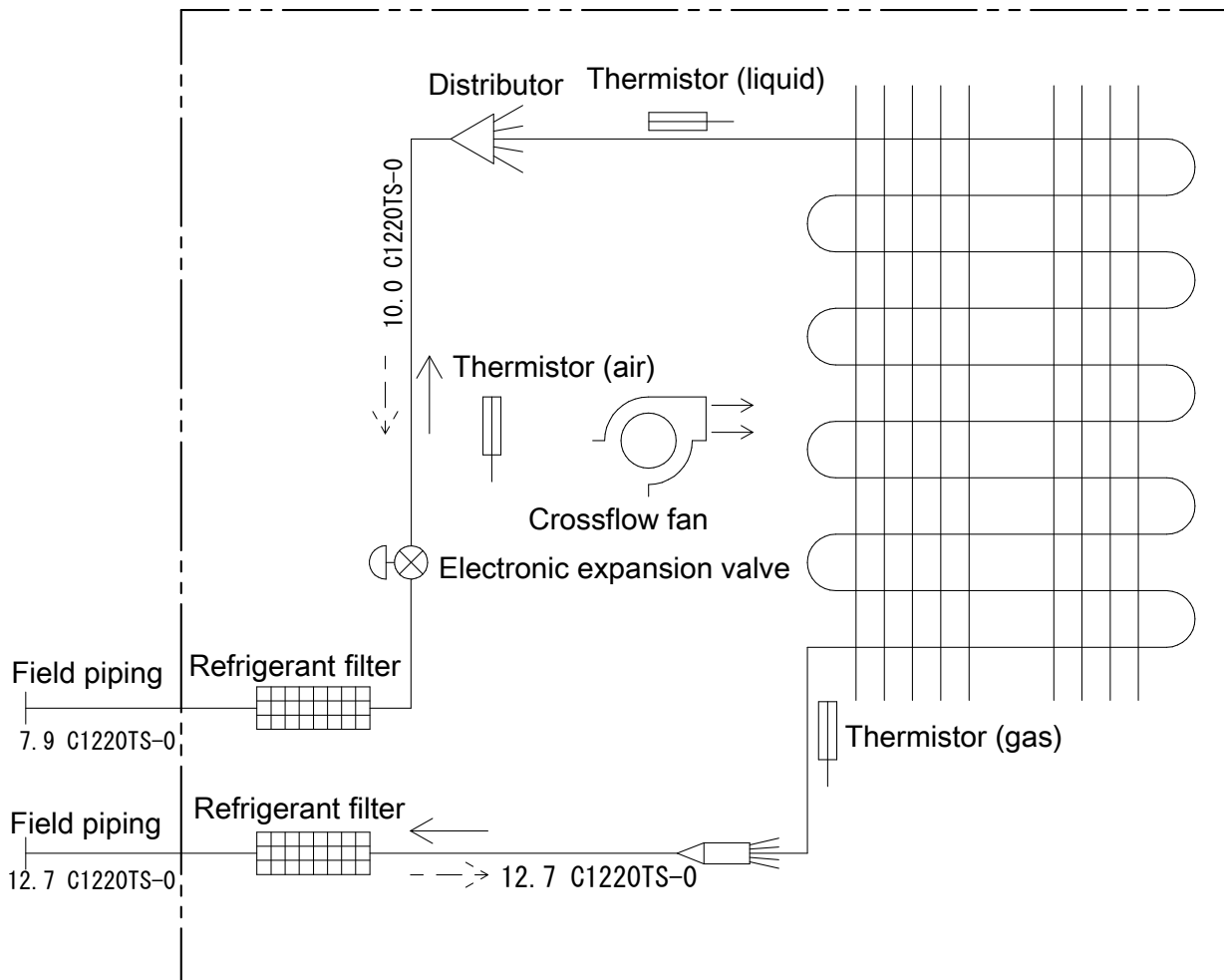
8 Piping diagrams

8 - 1 Piping Diagrams

FXAQ-A

8

Indoor unit



Refrigerant flow

—> Cooling

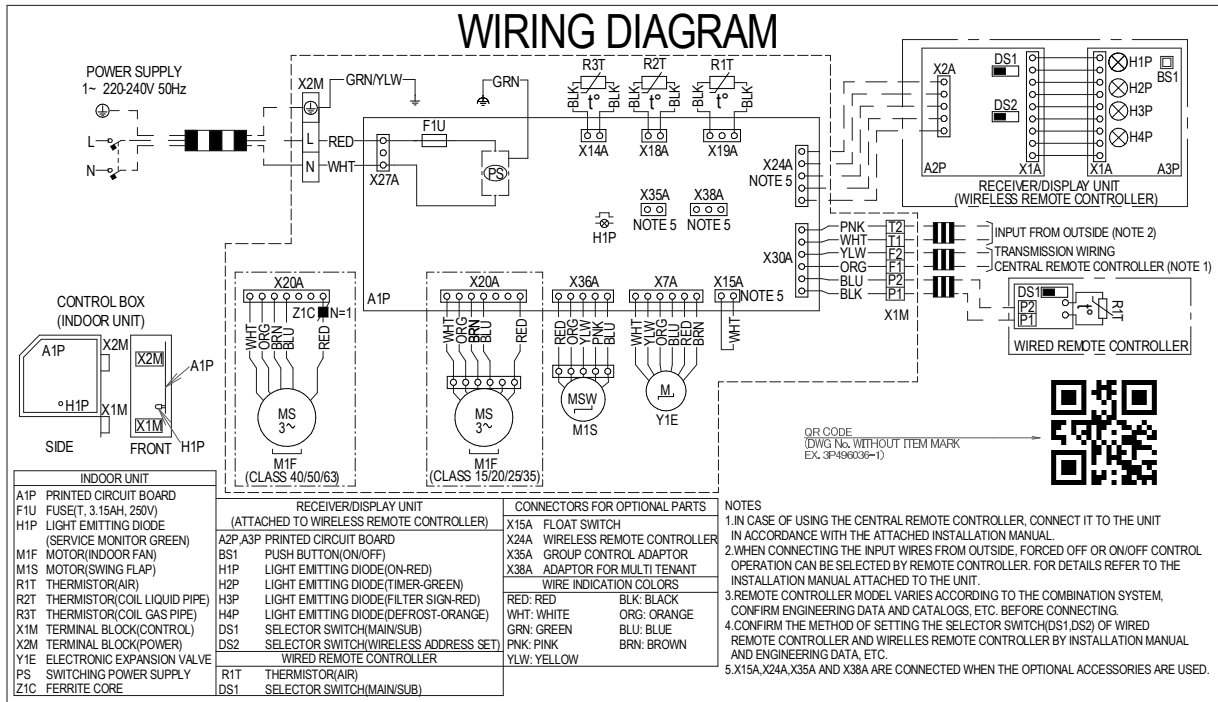
- -> Heating

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9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXAQ-A

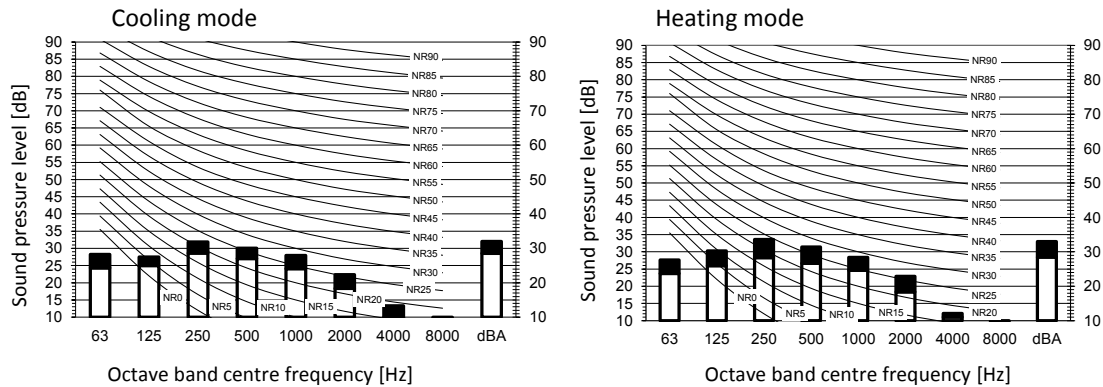


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10 Sound data

10 - 1 Sound Pressure Spectrum

FXAQ15A



Legend

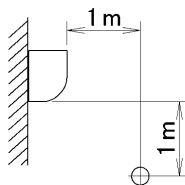
dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

B Fan speed: High

C Fan speed: Low

Location of microphone



Cooling		
Total dB		
A	B	C
dBA	32	28,5

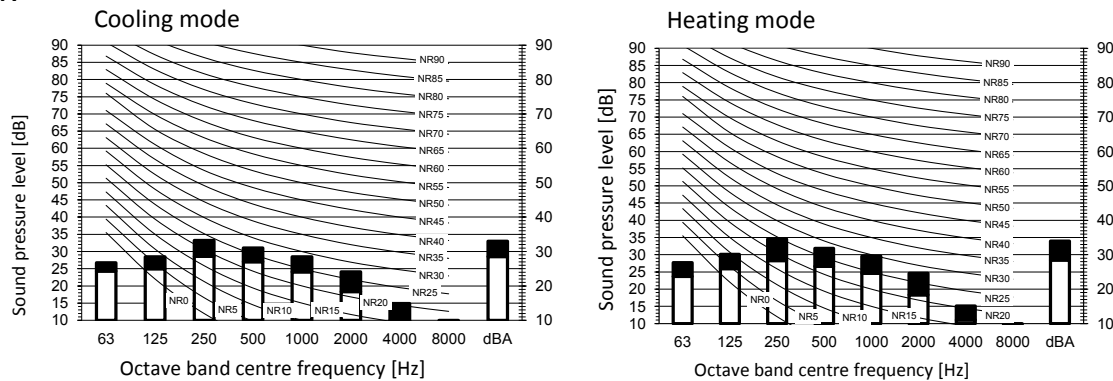
Heating		
Total dB		
A	B	C
dBA	33	28,5

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

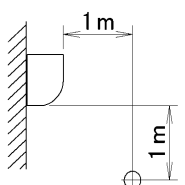
dBA = A-weighted sound pressure level (A scale according to IEC).

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

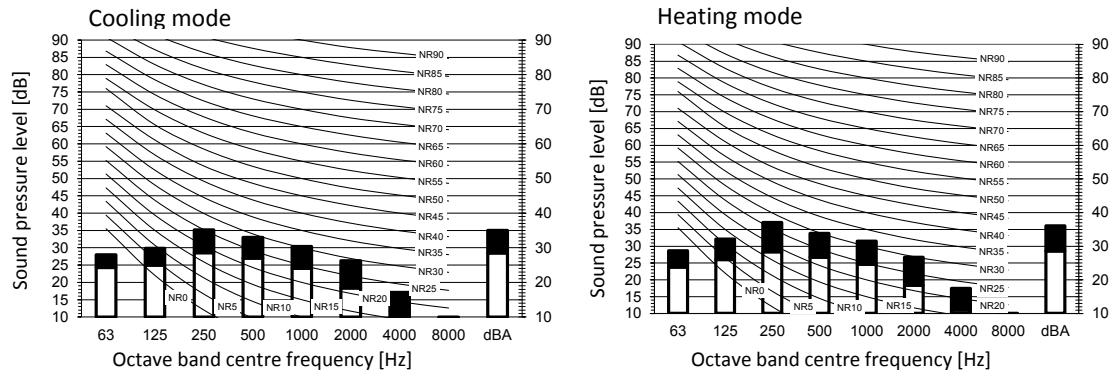
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2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic chamber

3D112489

10 Sound data

10 - 1 Sound Pressure Spectrum

FXAQ25A

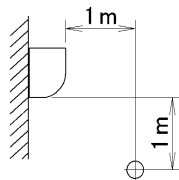


Legend

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

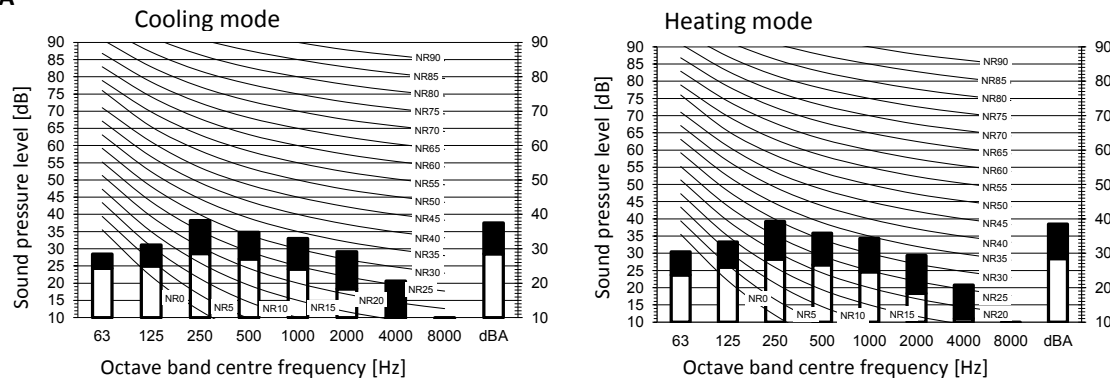
Heating		
Total dB		
A	B	C
dBA	36	28,5

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

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FXAQ32A

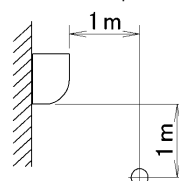


Legend

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

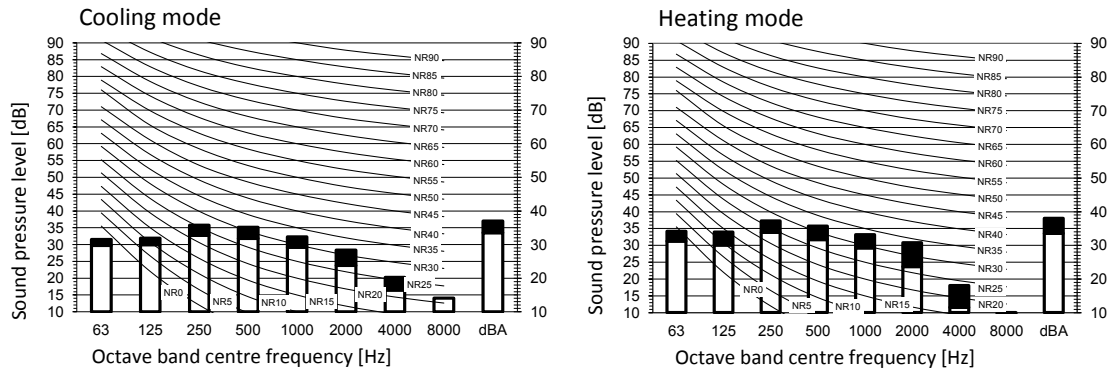
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D112491

10 Sound data

10 - 1 Sound Pressure Spectrum

FXAQ40A



Legend

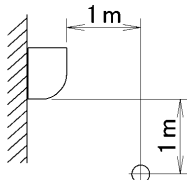
dBA = A-weighted sound pressure level (A scale according to IEC).

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

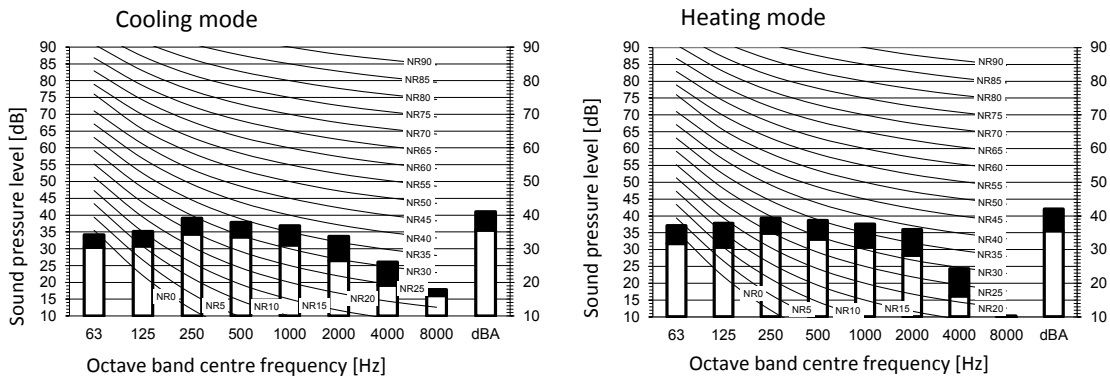
A	B	C
dBA	38	33,5

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



Legend

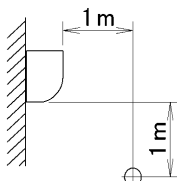
dBA = A-weighted sound pressure level (A scale according to IEC).

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

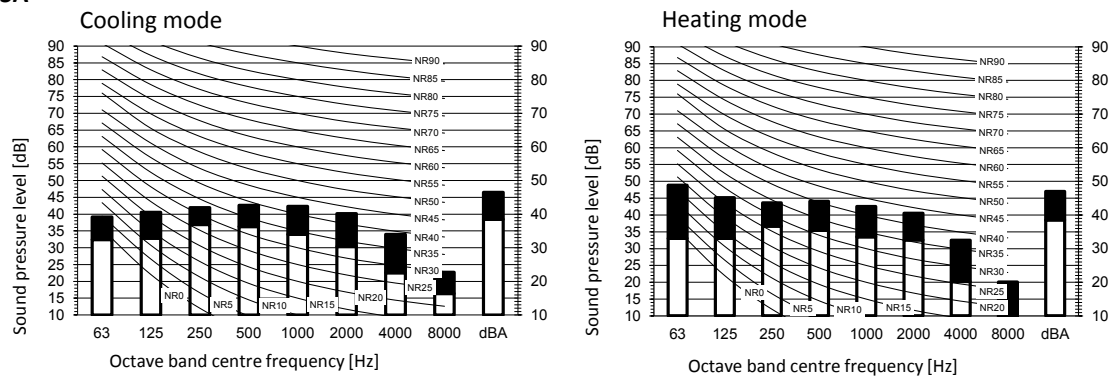
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D112493

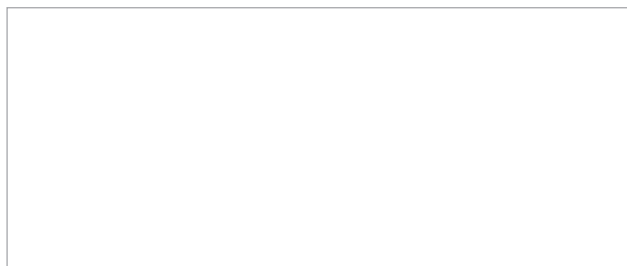
10 Sound data

10 - 1 Sound Pressure Spectrum

FXAQ63A



3D112494



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07/2020



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