



# technical data

Wall Mounted Unit  
FXAQ-MAVE

air conditioning systems

*VRV<sup>®</sup> III-S*

*VRV<sup>®</sup> III*

*VRV<sup>®</sup> II*

*VRV<sup>®</sup>-WII*

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# 1 Specifications

1-1 TECHNICAL SPECIFICATIONS				FXAQ20MAVE	FXAQ25MAVE	FXAQ32MAVE	FXAQ40MAVE	FXAQ50MAVE	FXAQ63MAVE
Nominal Capacity	Cooling	kW		2.20	2.80	3.60	4.50	5.60	7.10
	Heating	kW		2.50	3.20	4.00	5.00	6.30	8.00
Power input (Nominal)	Cooling	kW		0.016	0.022	0.027	0.020	0.027	0.050
	Heating	kW		0.024	0.027	0.032	0.020	0.032	0.060
Casing	Colour	white (3.0Y8.5/0.5)							
Dimensions	Unit	Height	mm	290	290	290	290	290	290
		Width	mm	795	795	795	1050	1050	1050
		Depth	mm	230	230	230	230	230	230
Weight	Unit	kg		11	11	11	14	14	14
Heat Exchanger	Dimensions	Nr of Rows		2	2	2	2	2	2
		Fin Pitch	mm	1.40	1.40	1.40	1.40	1.40	1.40
		Face Area	m <sup>2</sup>	0.161	0.161	0.161	0.213	0.213	0.213
		Nr of Stages		14	14	14	14	14	14
Fan	Type		Cross flow fan						
	Quantity		1	1	1	1			
Air Flow Rate	Cooling	High	m <sup>3</sup> /min	7.50	8.00	9.00	12.00	15.00	19.00
		Low	m <sup>3</sup> /min	4.50	5.00	5.50	9.00	12.00	14.00
Fan	Motor	Quantity		1	1	1	1	1	1
		Model		QCL9661M	QCL9661M	QCL9661M	QCL9686M	QCL9686M	QCL9686M
		Output (high)	W	40	40	40	43	43	43
		Drive		Direct drive					
Refrigerant	Name		R-410A						
Cooling	Sound Pressure	High	dBA	35.0	36.0	37.0	39.0	42.0	46.0
		Low	dBA	29.0	29.0	29.0	34.0	36.0	39.0
Piping connections	Liquid (OD)	Type		Flare connection					
		Diameter	mm	6.4	6.4	6.4	6.4	6.35	9.5
	Gas	Type		Flare connection					
		Diameter	mm	12.7	12.7	12.7	12.7	12.7	15.9
	Drain	Diameter	mm	18	18	18	18	18	18
Heat Insulation		Foamed polystyrene/polyethylene							
Air Filter	Washable resin net								
Refrigerant control	Electronic expansion valve								
Temperature control	Microprocessor thermostat for cooling and heating								
Safety devices	PC board fuse								
Standard Accessories	Standard Accessories			Installation and operation manual					
				Installation panel					
				Paper pattern for installation					
				Insulation tape					
				Clamps					
				Screws					
Notes				Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 5m (horizontal)					
				Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 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.					

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# 1 Specifications

1-2 ELECTRICAL SPECIFICATIONS		FXAQ20MAVE	FXAQ25MAVE	FXAQ32MAVE	FXAQ40MAVE	FXAQ50MAVE	FXAQ63MAVE	
Power Supply	Name	VE						
	Phase	1	1	1	1	1	1	
	Frequency	Hz	50	50	50	50	50	
	Voltage	V	220-240					
Current	Minimum circuit amps (MCA)	A	0.30	0.40	0.40	0.40	0.40	0.60
	Maximum fuse amps (MFA)	A	15.00	15.00	15.00	15.00	15.00	15.00
	Full load amps (FLA)	A	0.20	0.30	0.30	0.30	0.30	0.50
Voltage range	Minimum	V	-10%					
	Maximum	V	+10%					
Notes		Voltage range : units are suitable for use on electrical systems where voltage supplied to unit terminals 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 15A select wire size based on the MCA instead of a fuse, use a circuit breaker For more details concerning conditional connections, see <a href="http://www.daikineurope.com/extranet">http://www.daikineurope.com/extranet</a> , select "Daikin Documentation" and select "conditional connection", "the requested product type" and "English" from the drop down lists, click the search button. Finally click on the document title of your choice						

## 2 Safety device settings

	FXAQ20MA	FXAQ25MA	FXAQ32MA	FXAQ40MA	FXAQ50MA	FXAQ63MA
PC BOARD FUSE	250V 3A					
4D034906F						

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### 3 Options

	FXAQ20MA	FXAQ25MA	FXAQ32MA	FXAQ40MA	FXAQ50MA	FXAQ63MA
DRAIN PUMP KIT	K-KDU572CVE					
ED39-226B						

## 4 Control systems

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### Individual control systems

		FXAQ20MA	FXAQ25MA	FXAQ32MA	FXAQ40MA	FXAQ50MA	FXAQ63MA
WIRED REMOTE CONTROL		BRC1D52					
INFRARED REMOTE CONTROL	Heat pump	BRC7E618					
	Cooling only	BRC7E619					

### Centralised control systems

		FXAQ20MA	FXAQ25MA	FXAQ32MA	FXAQ40MA	FXAQ50MA	FXAQ63MA
CENTRALISED REMOTE CONTROL		DCS302C51					
UNIFIED ON/OFF CONTROL		DCS301B51					
SCHEDULE TIMER		DST301B51					

### Others

		FXAQ20MA	FXAQ25MA	FXAQ32MA	FXAQ40MA	FXAQ50MA	FXAQ63MA
WIRING ADAPTER FOR ELECTRICAL APPENDICES (1)		KRP2A51#					
WIRING ADAPTER FOR ELECTRICAL APPENDICES (2)		KRP4A51#					
INSTALLATION BOX FOR ADAPTER PCB (2) (3)		KRP4A93					
REMOTE SENSOR		KRCS01-1					
ELECTRICAL BOX WITH EARTH TERMINAL (3 BLOCKS)		KJB311A					
ELECTRICAL BOX WITH EARTH TERMINAL (2 BLOCKS)		KJB212A					
NOISE FILTER (FOR ELECTROMAGNETIC INTERFACE USE ONLY)		KEK26-1A					
EXTERNAL CONTROL ADAPTER FOR OUTDOOR UNITS (INSTALLATION ON INDOOR UNIT)		DTA104A61#					

PCV0320

#### NOTES

- 1 Installation box is necessary for each adapter marked with #.
- 2 Up to 2 adapters can be fixed per installation box.
- 3 Only 1 installation box can be installed per indoor unit.

# 5 Capacity tables

## 5 - 1 Cooling capacity tables

FXAQ-MA		TC: Total capacity; kW - SHC: Sensible capacity; kW														
Unit size	Nominal capacity	Outdoor air temp. °CDB	Indoor 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
20	2.2	10.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.9	1.9
		12.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.9	1.9
		14.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.8	1.9
		16.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.8	1.9
		18.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.7	1.9
		20.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.7	1.9
		21.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	2.0	2.7	1.9
		23.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	1.9	2.6	1.9
		25.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.6	1.9	2.6	1.9
		27.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.5	1.9	2.6	1.8
		29.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.5	1.9	2.5	1.8
		31.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.8
		33.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.4	1.9	2.5	1.8
		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
37.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.3	1.9	2.3	1.8	2.4	1.7		
39.0	1.5	1.5	1.8	1.8	2.1	1.9	2.2	1.9	2.2	1.9	2.2	1.9	2.3	1.7		
25	2.8	10.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.4	2.3	3.7	2.3
		12.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.4	2.3	3.6	2.2
		14.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.4	2.3	3.6	2.3
		16.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.4	2.3	3.5	2.2
		18.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.4	2.3	3.5	2.2
		20.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.4	2.3	3.4	2.2
		21.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.4	2.3	3.4	2.2
		23.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.3	2.3	3.4	2.2
		25.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.3	2.2	3.3	2.2
		27.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.2	2.2	3.3	2.1
		29.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.2	2.2	3.2	2.1
		31.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.1	2.2	3.2	2.1
		33.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	3.0	2.2	3.1	2.2	3.1	2.1
		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
37.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	2.9	2.2	3.0	2.1	3.0	2.0		
39.0	1.9	1.8	2.3	2.0	2.6	2.2	2.8	2.2	2.9	2.2	2.9	2.1	3.0	2.0		
32	3.6	10.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.3	2.8	4.7	2.8
		12.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.3	2.8	4.7	2.8
		14.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.3	2.8	4.6	2.8
		16.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.3	2.8	4.6	2.8
		18.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.3	2.8	4.5	2.7
		20.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.3	2.8	4.4	2.7
		21.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.3	2.8	4.4	2.7
		23.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.2	2.8	4.3	2.7
		25.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.2	2.8	4.3	2.6
		27.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.1	2.7	4.2	2.6
		29.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.1	2.7	4.2	2.6
		31.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.8	2.7	4.0	2.7	4.1	2.6
		33.0	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
		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
37.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.7	2.6	3.8	2.6	3.9	2.5		
39.0	2.4	2.2	2.9	2.4	3.4	2.6	3.6	2.7	3.7	2.6	3.8	2.6	3.8	2.5		
40	4.5	10.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.4	3.6	5.9	3.6
		12.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.4	3.6	5.8	3.5
		14.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.4	3.6	5.8	3.5
		16.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.4	3.6	5.7	3.5
		18.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.4	3.6	5.6	3.4
		20.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.4	3.6	5.5	3.4
		21.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.4	3.6	5.5	3.4
		23.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.3	3.6	5.4	3.3
		25.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.2	3.6	5.3	3.3
		27.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.2	3.5	5.3	3.3
		29.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.1	3.5	5.2	3.2
		31.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	5.0	3.4	5.1	3.2
		33.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.8	3.6	4.9	3.4	5.0	3.1
		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
37.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.7	3.5	4.8	3.3	4.9	3.1		
39.0	3.0	2.9	3.6	3.3	4.2	3.7	4.5	3.5	4.6	3.5	4.7	3.3	4.8	3.0		



# 5 Capacity tables

## 5 - 1 Cooling capacity tables

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**FXAQ-MA**

TC: Total capacity;kW – SHC: Sensible capacity;kW

Unit size	Nominal capacity	Outdoor air temp.	Indoor air temperature													
			14.OWB		16.OWB		18.OWB		19.OWB		20.OWB		22.OWB		24.OWB	
			20.ODB		23.ODB		26.ODB		27.ODB		28.ODB		30.ODB		32.ODB	
			°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC
50	5.6	10.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.7	4.4	7.4	4.4
		12.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.7	4.4	7.3	4.3
		14.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.7	4.4	7.2	4.3
		16.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.7	4.4	7.1	4.3
		18.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.7	4.4	7.0	4.2
		20.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.7	4.4	6.9	4.2
		21.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.7	4.4	6.8	4.2
		23.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.6	4.4	6.7	4.1
		25.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.5	4.3	6.6	4.1
		27.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.4	4.3	6.6	4.0
		29.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.3	4.2	6.5	4.0
		31.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.2	4.2	6.4	3.9
		33.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	6.0	4.3	6.1	4.2	6.3	3.9
		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
		37.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	5.8	4.3	5.9	4.1	6.1	3.8
		39.0	3.8	3.2	4.5	3.7	5.2	4.1	5.6	4.2	5.7	4.2	5.8	4.0	6.0	3.8
		63	7.1	10.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	8.5	5.6
12.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	8.5	5.6	9.2	5.3
14.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	8.5	5.6	9.1	5.2
16.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	8.5	5.6	9.0	5.2
18.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	8.5	5.6	8.8	5.2
20.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	8.5	5.6	8.7	5.1
21.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	8.5	5.6	8.7	5.1
23.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	8.4	5.5	8.5	5.0
25.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	8.3	5.5	8.4	5.0
27.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	8.1	5.4	8.3	4.9
29.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	8.0	5.4	8.2	4.9
31.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	7.9	5.3	8.1	4.8
33.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.6	5.4	7.8	5.2	7.9	4.8
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
37.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.4	5.3	7.5	5.1	7.7	4.7
39.0	4.8			4.1	5.7	4.6	6.6	5.1	7.1	5.3	7.2	5.3	7.4	5.1	7.6	4.6

# 5 Capacity tables

## 5 - 2 Heating capacity tables

FXAQ-MA									
Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
20	2.5	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5	1.5
		-18.8	-19.0	1.5	1.5	1.5	1.5	1.5	1.5
		-16.7	-17.0	1.6	1.6	1.6	1.6	1.6	1.6
		-14.7	-15.0	1.7	1.7	1.7	1.7	1.7	1.7
		-12.6	-13.0	1.8	1.8	1.8	1.8	1.8	1.8
		-10.5	-11.0	1.9	1.9	1.9	1.9	1.9	1.9
		-9.5	-10.0	1.9	1.9	1.9	1.9	1.9	1.9
		-8.5	-9.1	2.0	2.0	1.9	1.9	1.9	1.9
		-7.0	-7.6	2.0	2.0	2.0	2.0	2.0	2.0
		-5.0	-5.6	2.1	2.1	2.1	2.1	2.1	2.1
		-3.0	-3.7	2.2	2.2	2.2	2.2	2.2	2.2
		0.0	-0.7	2.3	2.3	2.3	2.3	2.3	2.2
		3.0	2.2	2.5	2.5	2.4	2.4	2.3	2.2
		5.0	4.1	2.5	2.5	2.5	2.4	2.3	2.2
		7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
		9.0	7.9	2.7	2.7	2.5	2.4	2.3	2.2
		11.0	9.8	2.8	2.7	2.5	2.4	2.3	2.2
13.0	11.8	2.8	2.7	2.5	2.4	2.3	2.2		
15.0	13.7	2.8	2.7	2.5	2.4	2.3	2.2		
25	3.2	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9	1.9
		-18.8	-19.0	1.9	1.9	1.9	1.9	1.9	1.9
		-16.7	-17.0	2.1	2.1	2.0	2.0	2.0	2.0
		-14.7	-15.0	2.2	2.2	2.2	2.2	2.2	2.1
		-12.6	-13.0	2.3	2.3	2.3	2.3	2.3	2.3
		-10.5	-11.0	2.4	2.4	2.4	2.4	2.4	2.4
		-9.5	-10.0	2.5	2.4	2.4	2.4	2.4	2.4
		-8.5	-9.1	2.5	2.5	2.5	2.5	2.5	2.5
		-7.0	-7.6	2.6	2.6	2.6	2.6	2.6	2.6
		-5.0	-5.6	2.7	2.7	2.7	2.7	2.7	2.7
		-3.0	-3.7	2.8	2.8	2.8	2.8	2.8	2.8
		0.0	-0.7	3.0	3.0	3.0	3.0	3.0	2.8
		3.0	2.2	3.1	3.1	3.1	3.1	3.0	2.8
		5.0	4.1	3.3	3.2	3.2	3.1	3.0	2.8
		7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
		9.0	7.9	3.5	3.4	3.2	3.1	3.0	2.8
		11.0	9.8	3.6	3.4	3.2	3.1	3.0	2.8
13.0	11.8	3.6	3.4	3.2	3.1	3.0	2.8		
15.0	13.7	3.6	3.4	3.2	3.1	3.0	2.8		
32	4.0	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3	2.3
		-18.8	-19.0	2.4	2.4	2.4	2.4	2.4	2.4
		-16.7	-17.0	2.6	2.6	2.6	2.6	2.6	2.5
		-14.7	-15.0	2.7	2.7	2.7	2.7	2.7	2.7
		-12.6	-13.0	2.9	2.8	2.8	2.8	2.8	2.8
		-10.5	-11.0	3.0	3.0	3.0	3.0	3.0	3.0
		-9.5	-10.0	3.1	3.1	3.1	3.1	3.0	3.0
		-8.5	-9.1	3.1	3.1	3.1	3.1	3.1	3.1
		-7.0	-7.6	3.2	3.2	3.2	3.2	3.2	3.2
		-5.0	-5.6	3.4	3.4	3.4	3.4	3.4	3.4
		-3.0	-3.7	3.5	3.5	3.5	3.5	3.5	3.5
		0.0	-0.7	3.7	3.7	3.7	3.7	3.7	3.5
		3.0	2.2	3.9	3.9	3.9	3.9	3.7	3.5
		5.0	4.1	4.1	4.1	4.0	3.9	3.7	3.5
		7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
		9.0	7.9	4.3	4.3	4.0	3.9	3.7	3.5
		11.0	9.8	4.5	4.3	4.0	3.9	3.7	3.5
13.0	11.8	4.5	4.3	4.0	3.9	3.7	3.5		
15.0	13.7	4.5	4.3	4.0	3.9	3.7	3.5		
40	5.0	-19.8	-20.0	3.0	2.9	2.9	2.9	2.9	2.9
		-18.8	-19.0	3.0	3.0	3.0	3.0	3.0	3.0
		-16.7	-17.0	3.2	3.2	3.2	3.2	3.2	3.2
		-14.7	-15.0	3.4	3.4	3.4	3.4	3.4	3.4
		-12.6	-13.0	3.6	3.6	3.6	3.5	3.5	3.5
		-10.5	-11.0	3.7	3.7	3.7	3.7	3.7	3.7
		-9.5	-10.0	3.8	3.8	3.8	3.8	3.8	3.8
		-8.5	-9.1	3.9	3.9	3.9	3.9	3.9	3.9
		-7.0	-7.6	4.0	4.0	4.0	4.0	4.0	4.0
		-5.0	-5.6	4.2	4.2	4.2	4.2	4.2	4.2
		-3.0	-3.7	4.4	4.4	4.4	4.4	4.4	4.4
		0.0	-0.7	4.7	4.6	4.6	4.6	4.6	4.4
		3.0	2.2	4.9	4.9	4.9	4.8	4.7	4.4
		5.0	4.1	5.1	5.1	5.0	4.8	4.7	4.4
		7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
		9.0	7.9	5.4	5.3	5.0	4.8	4.7	4.4
		11.0	9.8	5.6	5.3	5.0	4.8	4.7	4.4
13.0	11.8	5.6	5.3	5.0	4.8	4.7	4.4		
15.0	13.7	5.6	5.3	5.0	4.8	4.7	4.4		

# 5 Capacity tables

## 5 - 2 Heating capacity tables

5

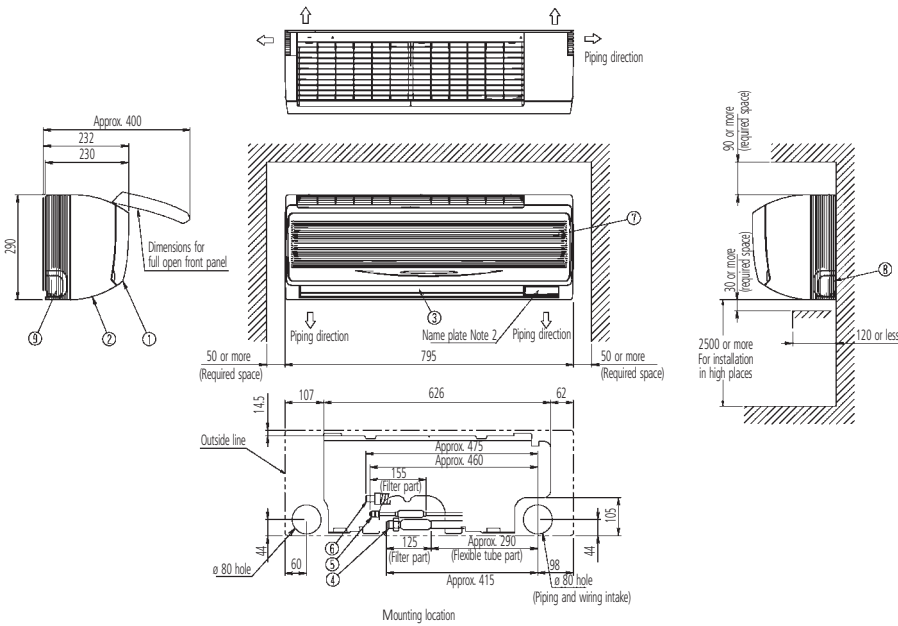
**FXAQ-MA**

Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
50	6.3	-19.8	-20.0	3.7	3.7	3.7	3.7	3.7	3.7
		-18.8	-19.0	3.8	3.8	3.8	3.8	3.8	3.8
		-16.7	-17.0	4.1	4.0	4.0	4.0	4.0	4.0
		-14.7	-15.0	4.3	4.3	4.3	4.2	4.2	4.2
		-12.6	-13.0	4.5	4.5	4.5	4.5	4.5	4.5
		-10.5	-11.0	4.7	4.7	4.7	4.7	4.7	4.7
		-9.5	-10.0	4.8	4.8	4.8	4.8	4.8	4.8
		-8.5	-9.1	4.9	4.9	4.9	4.9	4.9	4.9
		-7.0	-7.6	5.1	5.1	5.1	5.1	5.1	5.1
		-5.0	-5.6	5.3	5.3	5.3	5.3	5.3	5.3
		-3.0	-3.7	5.5	5.5	5.5	5.5	5.5	5.5
		0.0	-0.7	5.9	5.9	5.8	5.8	5.8	5.5
		3.0	2.2	6.2	6.2	6.2	6.1	5.9	5.5
		5.0	4.1	6.4	6.4	6.3	6.1	5.9	5.5
		7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
		9.0	7.9	6.8	6.7	6.3	6.1	5.9	5.5
		11.0	9.8	7.0	6.7	6.3	6.1	5.9	5.5
13.0	11.8	7.1	6.7	6.3	6.1	5.9	5.5		
15.0	13.7	7.1	6.7	6.3	6.1	5.9	5.5		
63	8.0	-19.8	-20.0	4.7	4.7	4.7	4.7	4.7	4.7
		-18.8	-19.0	4.9	4.9	4.8	4.8	4.8	4.8
		-16.7	-17.0	5.1	5.1	5.1	5.1	5.1	5.1
		-14.7	-15.0	5.4	5.4	5.4	5.4	5.4	5.4
		-12.6	-13.0	5.7	5.7	5.7	5.7	5.7	5.7
		-10.5	-11.0	6.0	6.0	6.0	6.0	6.0	5.9
		-9.5	-10.0	6.1	6.1	6.1	6.1	6.1	6.1
		-8.5	-9.1	6.3	6.3	6.2	6.2	6.2	6.2
		-7.0	-7.6	6.5	6.5	6.4	6.4	6.4	6.4
		-5.0	-5.6	6.8	6.7	6.7	6.7	6.7	6.7
		-3.0	-3.7	7.0	7.0	7.0	7.0	7.0	7.0
		0.0	-0.7	7.5	7.4	7.4	7.4	7.4	7.0
		3.0	2.2	7.9	7.8	7.8	7.7	7.5	7.0
		5.0	4.1	8.1	8.1	8.0	7.7	7.5	7.0
		7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0
		9.0	7.9	8.7	8.5	8.0	7.7	7.5	7.0
		11.0	9.8	8.9	8.5	8.0	7.7	7.5	7.0
13.0	11.8	9.0	8.5	8.0	7.7	7.5	7.0		
15.0	13.7	9.0	8.5	8.0	7.7	7.5	7.0		

# 6 Dimensional drawing & centre of gravity

## 6 - 1 Dimensional drawing

### FXAQ20,25,32MA



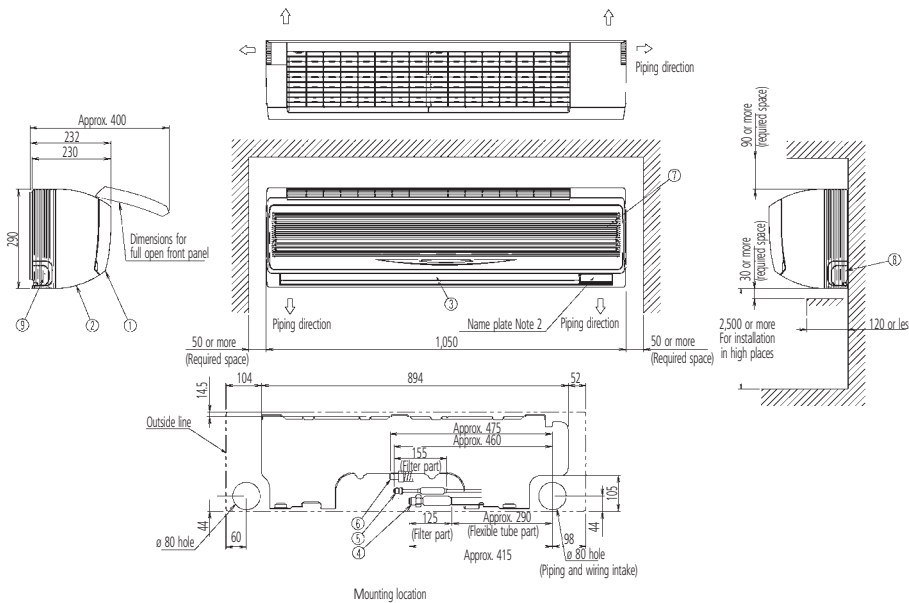
Nr	Part name	Description
1	Front panel	
2	Front grill	
3	Air outlet	
4	Gas pipe	ø 12.7 Flare connection
5	Liquid pipe	ø 6.4 Flare connection
6	Drain hose	VP13 (External dia. ø18)
7	Grounding terminal	M4
8	Right side pipe connection hole	
9	Left side pipe connection hole	

**NOTES**

- 1 Name plate location: right side surface of casing
- 2 In case of using an infrared remote control, this position will be a signal receiver. Refer to the drawing of an infrared remote control in detail.

3D034903C

### FXAQ40,50MA



Nr	Part name	Description
1	Front panel	
2	Front grill	
3	Air outlet	
4	Gas pipe	ø 12.7 Flare connection
5	Liquid pipe	ø 6.4 Flare connection
6	Drain hose	VP13 (External dia. ø 18)
7	Grounding terminal	M4
8	Right side pipe connection hole	
9	Left side pipe connection hole	

**NOTES**

- 1 Name plate location: right side surface of casing.
- 2 In case of using an infrared remote control, this position will be a signal receiver. Refer to the drawing of the infrared remote control in detail.

3D038539B

## 6 Dimensional drawing & centre of gravity

### 6 - 1 Dimensional drawing

**FXAQ63MA**

The drawing includes the following views and dimensions:

- Top View:** Shows the front panel with a width of approximately 400 mm. Callouts 1 and 2 indicate the front panel and front grill respectively.
- Side View:** Shows the unit's profile with a depth of 104 mm and a total width of 894 mm. Callouts 3, 4, 5, 6, 7, 8, and 9 indicate the air outlet, gas pipe, liquid pipe, drain hose, grounding terminal, right side pipe connection hole, and left side pipe connection hole.
- Mounting Location:** Shows the unit mounted on a wall with a total width of 1,050 mm. Callouts 1 through 9 correspond to the parts listed in the table.
- Detail Views:**
  - Dimensions for full open front panel: 232 mm and 230 mm.
  - Required space for installation: 50 mm or more on the sides and top.
  - Filter part dimensions: 155 mm (width), 125 mm (height), and 98 mm (depth).
  - Drain hose connection: 30 mm or more (required space).
  - Grounding terminal: 2,500 mm or more for installation in high places.

Nr	Part name	Description
1	Front panel	
2	Front grill	
3	Air outlet	
4	Gas pipe	ø 15.9 Flare connection
5	Liquid pipe	ø 9.5 Flare connection
6	Drain hose	VP13
7	Grounding terminal	M4
8	Right side pipe connection hole	
9	Left side pipe connection hole	

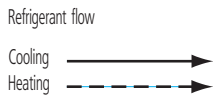
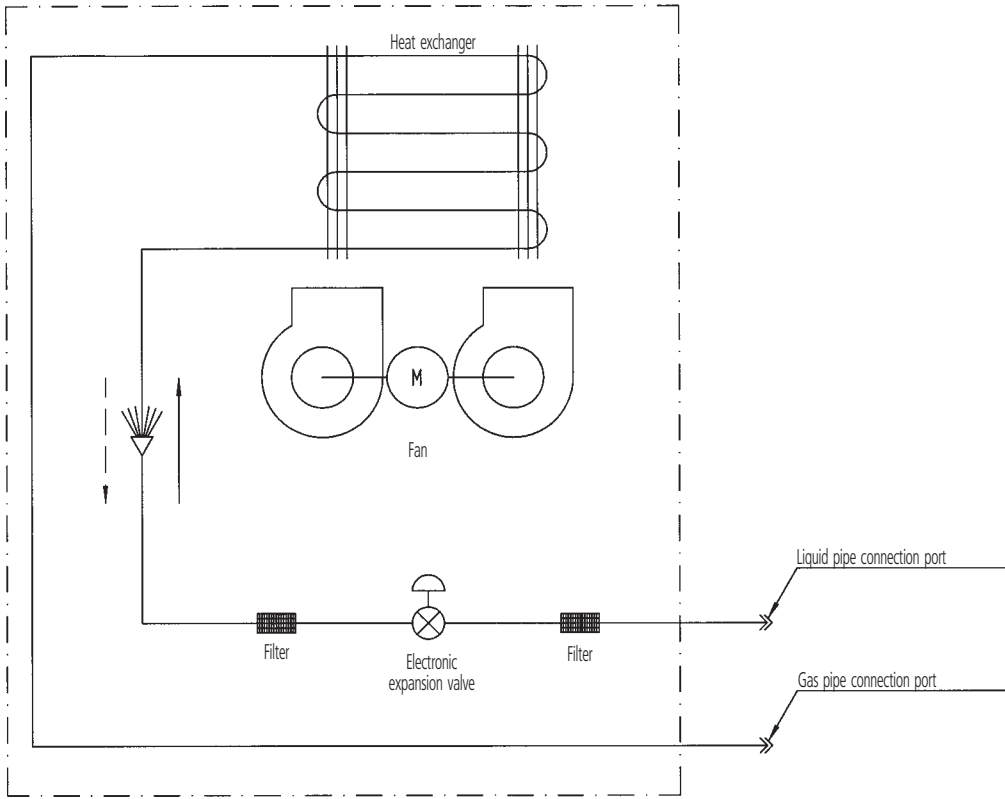
**NOTES**

- Name plate location: right side surface of casing.
- In case of using an infrared remote control, this position will be a signal receiver. Refer to the drawing of the infrared remote control in detail.

**3D038541B**

# 7 Piping diagram

FXAQ-MA



Piping connection diameters

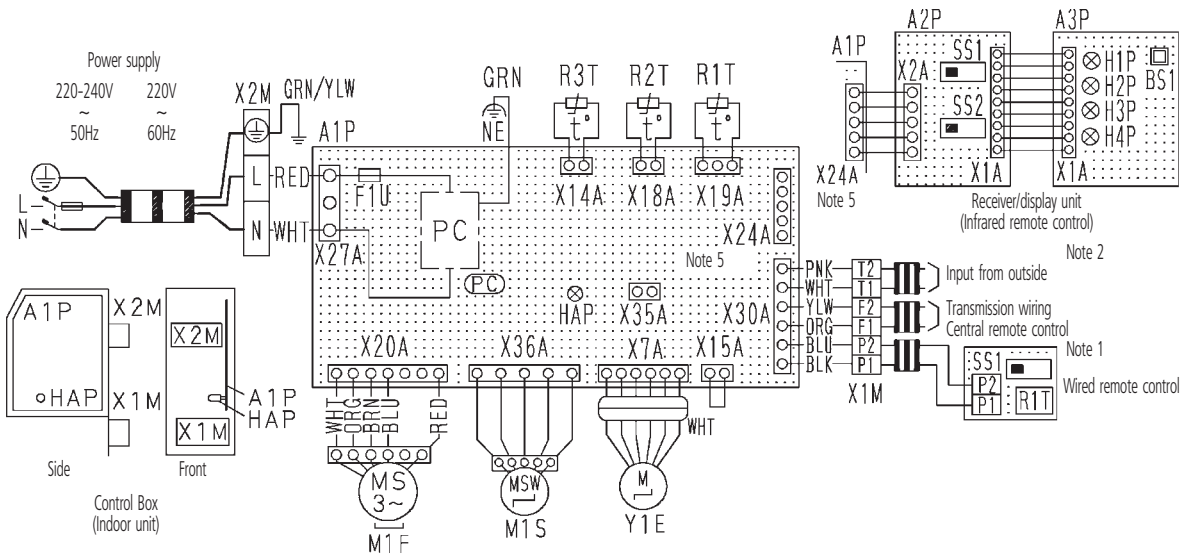
Model	Gas	Liquid
FXAQ20,25,32,40,50MA	ø12.7	ø6.4
FXAQ63MA	ø15.9	ø9.5

DU220-602J

# 8 Wiring diagram

## 8 - 1 Wiring diagram

FXAQ-MA



Indoor Unit					
A1P	Printed circuit board	Y1E	Electronic expansion valve	SS1	Selector switch (Main/sub)
F1U	Fuse (⊗, 3A, 250V)	PC	Power Circuit	SS2	Selector switch (Wireless address set)
HAP	Light emitting diode (Service monitor-green)	Receiver/display unit (Attached to infrared remote control)			
M1F	Motor (Indoor fan)	A2P	Printed circuit board	Wired remote control	
M1S	Motor (Swing flap)	A3P	Printed circuit board	R1T	Thermistor (Air)
R1T	Thermistor (Air)	BS1	Push button (On/off)	SS1	Selector switch (Main/sub)
R2T	Thermistor (Coil liquid pipe)	H1P	Light emitting diode (On-red)		
R3T	Thermistor (Coil gas pipe)	H2P	Light emitting diode (Timer green)	Connector for optional parts	
X1M	Terminal block (Control)	H3P	Light emitting diode (Filter sign-red)	X15A	Connector (Float switch)
X2M	Terminal block (Power)	H4P	Light emitting diode (Defrost-orange)	X35A	Connector (Group control adapter)

- : Terminal  
 : Connector  
 : Shows short circuit connector  
 : Field wiring
- COLORS : BLK : Black      PNK : Pink  
           BLU : Blue        RED : Red  
           BRN : Brown      WHT : White  
           GRN : Green      YLW : Yellow  
           ORG : Orange

### NOTES

- In case of using central remote control, connect it to the unit in accordance with the attached installation manual.
- When connecting the input wires from outside, forced off or on/off control operation can be selected by remote control. In details, refer to the installation manual attached the unit.
- Remote control model varies according to the combination system. Confirm engineering data and catalogs, etc. before connecting.
- Confirm the method of setting the selector switch (SS1, SS2) of wired remote control and infrared remote control by installation manual and engineering data, etc.
- X24A is connected when the infrared remote control kit is being used.

3D034206C

# 9 Sound data

## 9 - 1 Sound pressure spectrum

**FXAQ20MA** 4D037087D

**NOTES**

- Over all (dB):  
(B, G, N is already rectified)

Scale	Mode	
	Hi	Low
A	35.0	29.0
C	39.5	34.5

- Operating conditons:
  - Power source: 220-240V 50Hz / 220V 60Hz
  - Cooling: Return air temperature: 27°C DB, 19°C WB; Outdoor temperature: 35°C DB, 24°C WB
  - Heating: Return air temperature: 20°C DB, 15°C WB; Outdoor temperature: 7°C DB, 6°C WB
- Measuring place: Anechoic chamber
- Location of microphone

- Operating noise differs with operation and ambient conditions.

**FXAQ25MA** 4D037088D

**NOTES**

- Over all (dB):  
(B, G, N is already rectified)

Scale	Mode	
	Hi	Low
A	36.0	29.0
C	40.5	34.0

- Operating conditons:
  - Power source: 220-240V 50Hz / 220V 60Hz
  - Cooling: Return air temperature: 27°C DB, 19°C WB; Outdoor temperature: 35°C DB, 24°C WB
  - Heating: Return air temperature: 20°C DB, 15°C WB; Outdoor temperature: 7°C DB, 6°C WB
- Measuring place: Anechoic chamber
- Location of microphone

- Operating noise differs with operation and ambient conditions.

**FXAQ32MA** 4D037089D

**NOTES**

- Over all (dB):  
(B, G, N is already rectified)

Scale	Mode	
	Hi	Low
A	37.0	29.0
C	41.5	34.5

- Operating conditons:
  - Power source: 220-240V 50Hz / 220V 60Hz
  - Cooling: Return air temperature: 27°C DB, 19°C WB; Outdoor temperature: 35°C DB, 24°C WB
  - Heating: Return air temperature: 20°C DB, 15°C WB; Outdoor temperature: 7°C DB, 6°C WB
- Measuring place: Anechoic chamber
- Location of microphone

- Operating noise differs with operation and ambient conditions.

**FXAQ40MA** 4D038513A

**NOTES**

- Over all (dB):  
(B, G, N is already rectified)

Scale	Mode	
	Hi	Low
A	39.0	34.0
C	41.0	39.0

- Operating conditons:
  - Power source: 220-240V 50Hz / 220V 60Hz
  - Cooling: Return air temperature: 27°C DB, 19°C WB; Outdoor temperature: 35°C DB, 24°C WB
  - Heating: Return air temperature: 20°C DB, 15°C WB; Outdoor temperature: 7°C DB, 6°C WB
- Measuring place: Anechoic chamber
- Location of microphone

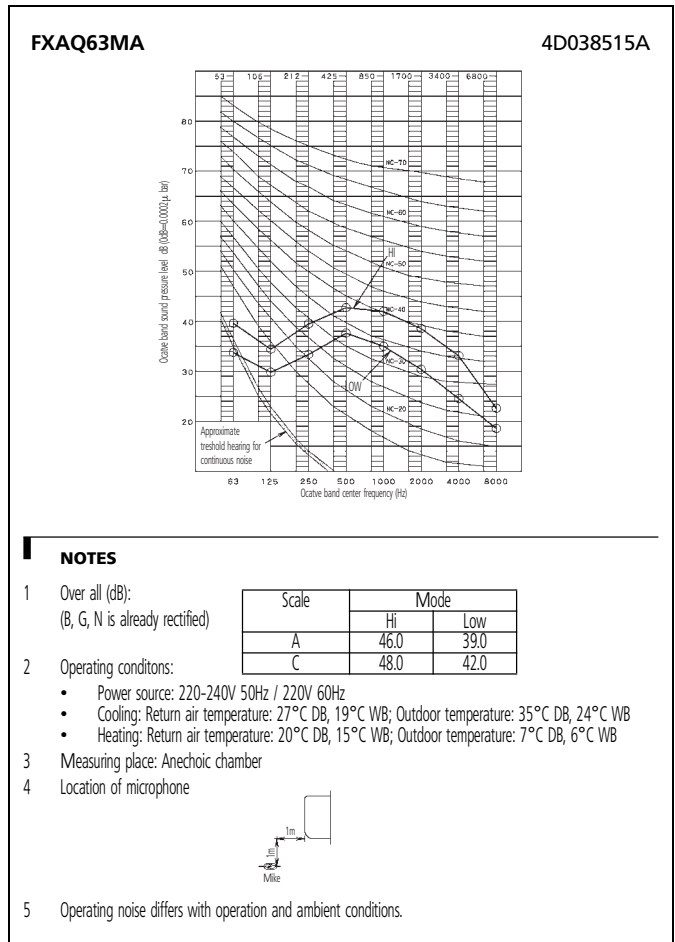
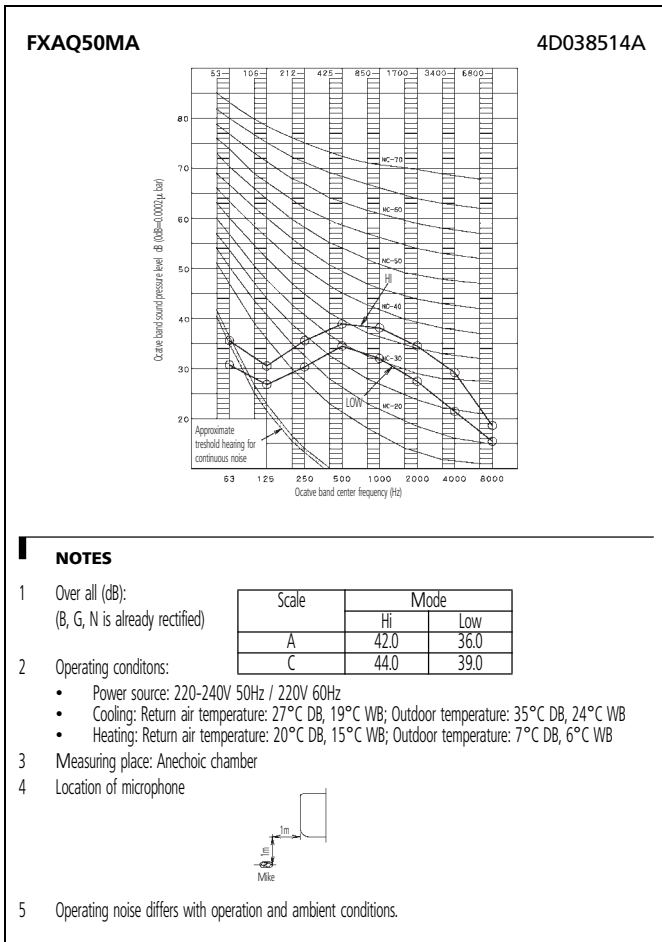
- Operating noise differs with operation and ambient conditions.



# 9 Sound data

## 9 - 1 Sound pressure spectrum

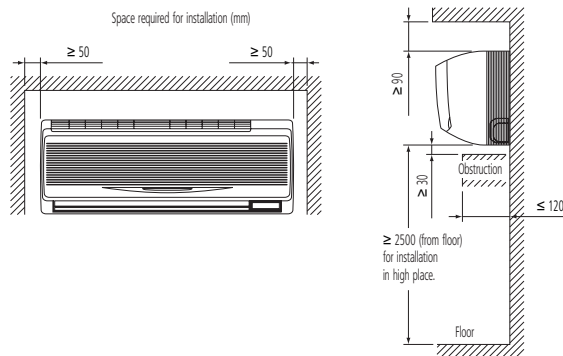
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## 10 Installation

### 10 - 1 Service space

- 1 Select an installation site where the following conditions are fulfilled and that meets with your customer's approval.
  - In the upper space (including the back of the ceiling) of the indoor unit where there is no possible dripping of water from the refrigerant pipe, drain pipe, water pipe, etc.
  - Where the wall is strong enough to bear the indoor unit weight.
  - Where sufficient clearance for installation and maintenance can be ensured.
  - Where optimum air distribution can be ensured.
  - Where nothing blocks the air passage.
  - Where condensation can be properly drained.
  - Where the wall is not significantly tilted.
  - Where not exposed to combustible gases.
  - Where piping between indoor and outdoor units is possible within the allowable limit. (Refer to the installation manual of the outdoor unit.)
  - Keep the indoor and outdoor units, power cable and transmission wiring, at least 1 m from TVs and radios, to prevent distorted pictures and static. (Depending on the type and source of the electrical waves, static may be heard even when more than 1 m away.)
  - Install the indoor unit no less than 2.5 m above the floor. Where unavoidably lower, take what measures are necessary to keep hands out of the air inlet.



- 2 Consider whether the location where the unit will be installed can support the full weight of the unit, and reinforce it with boards and beams, etc. if needed before proceeding with the installation. Also, reinforce the location to prevent vibration and noise before installing.
- 3 The indoor unit may not be directly installed on the wall. Use the attached installation panel before installing the unit.

## 10 Installation

### 10 - 1 Service space

# 2

**VRV III-S**  
**VRV III**  
**VRV II**  
**VRV-WII**

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Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



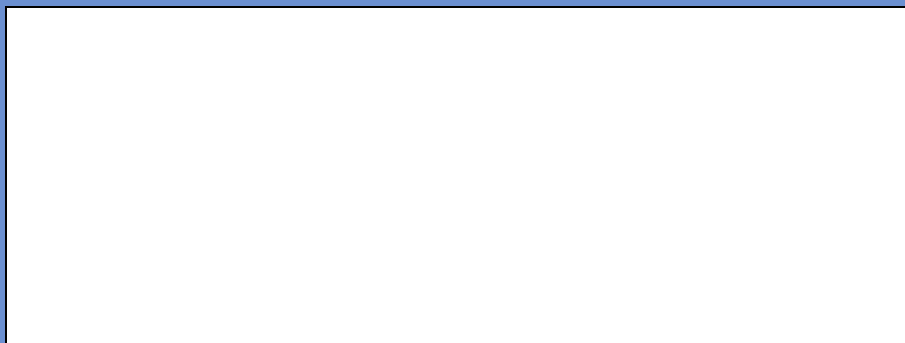
Daikin units comply with the European regulations that guarantee the safety of the product.

VRV products are not within the scope of the Eurovent certification programme.

Daikin equipment is designed for comfort applications. For use in other applications, please contact your local Daikin representative.

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