



technical data

Concealed Floor Standing Unit
FXNQ-MAVE

air conditioning systems

R-410A



technical data

Concealed Floor Standing Unit
FXNQ-MAVE

air conditioning systems

R-410A

TABLE OF CONTENTS

FXNQ-MAVE

1	Specifications	2
	Technical Specifications	2
	Electrical Specifications (50Hz)	3
	Electrical Specifications (60Hz)	3
2	Safety device settings	4
3	Options	4
4	Control systems	5
5	Capacity tables	6
	Cooling capacity tables	6
	Heating capacity tables	8
6	Dimensional drawing & centre of gravity	10
	Dimensional drawing	10
	Centre of gravity	12
7	Piping diagram	13
8	Wiring diagram	14
	Wiring diagram	14
9	Sound data	15
	Sound pressure spectrum	15
10	Installation	17
	Suspension bolt pitch position	17
	Service space	18

1 Specifications

1-1 Technical Specifications				FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE	
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 (50Hz)	Cooling	kW	0.049	0.049	0.090	0.090	0.110	0.110		
	Heating	kW	0.049	0.049	0.090	0.090	0.110	0.110		
Power Input (60Hz)	Cooling	kW	0.047	0.047	0.079	0.084	0.105	0.108		
	Heating	kW	0.047	0.047	0.079	0.084	0.105	0.108		
Casing	Material	Galvanised steel								
Dimensions	Unit	Height	mm	610	610	610	610	610	610	
		Width	mm	930	930	1070	1070	1350	1350	
		Depth	mm	220	220	220	220	220	220	
Weight	Unit	kg	19	19	23	23	27	27		
Heat Exchanger	Dimensions	Nr of Rows		3	3	3	3	3	3	
		Fin Pitch	mm	1.50	1.50	1.50	1.50	1.50	1.50	
		Face Area	m ²	0.159	0.159	0.200	0.200	0.282	0.282	
		Nr of Stages		14	14	14	14	14	14	
Fan	Type	Sirocco fan								
	Quantity		1	1	1	1	1	1		
Air Flow Rate	Cooling	High	m ³ /min	7.00	7.00	8.00	11.00	14.00	16.00	
		Low	m ³ /min	6.00	6.00	6.00	8.50	11.00	12.00	
Fan	Motor	Quantity		1	1	1	1	1	1	
		Model		D14B20	D14B20	2D14B13	2D14B13	2D14B20	2D14B20	
		Output (high)	W	15	15	25	25	35	35	
		Drive	Direct drive							
Refrigerant	Name	R-410A								
Cooling	Sound Pressure	High	dBA	35.0	35.0	35.0	38.0	39.0	40.0	
		Low	dBA	32.0	32.0	32.0	33.0	34.0	35.0	
Piping connections	Liquid (OD)	Type	Flare connection							
		Diameter	mm	6.35	6.35	6.35	6.35	6.35	9.52	
	Gas	Type	Flare connection							
		Diameter	mm	12.7	12.7	12.7	12.7	12.7	15.9	
	Drain	Diameter	mm	21	21	21	21	21	21	
Heat Insulation	Glass Fiber/Urethane Foam									
Air Filter	Resin net with mold resistance									
Refrigerant control	Electronic expansion valve									
Temperature control	Microprocessor thermostat for cooling and heating									
Safety devices	PC board fuse									
	Fan motor thermal protector									
	Installation and operation manual									
Standard Accessories	Standard Accessories	Insulation for fitting								
		Drain hose								
		Clamps								
		Screws								
		Washer								
		Level adjustment screw								
		Notes								
				Nominal cooling capacities are based on : indoor temperature : 27°CDB, 19°CWB, outdoor temperature : 35°CDB, equivalent refrigerant piping : 7.5m (horizontal)						
				Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m (horizontal)						
				Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.						
				Sound pressure levels are measured at 220V						

1 Specifications

1-2 Electrical Specifications (50Hz)			FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE
Power Supply	Name		VE					
	Phase		1~					
	Frequency	Hz	50					
	Voltage	V	220-240					
Current	Minimum circuit amps (MCA)	A	0.3	0.3	0.6	0.6	0.6	0.6
	Maximum fuse amps (MFA)	A	15	15	15	15	15	15
	Full load amps (FLA)	A	0.2	0.2	0.5	0.5	0.5	0.5
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 is smaller than or equal to 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					

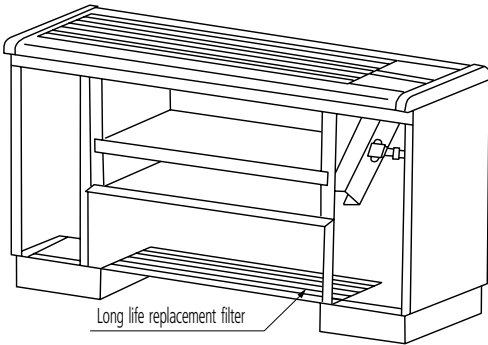
1-3 Electrical Specifications (60Hz)			FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE
Power Supply	Name		VE					
	Phase		1~					
	Frequency	Hz	60					
	Voltage	V	220					
Current	Minimum circuit amps (MCA)	A	0.3	0.3	0.5	0.5	0.6	0.6
	Maximum fuse amps (MFA)	A	15	15	15	15	15	15
	Full load amps (FLA)	A	0.2	0.2	0.4	0.4	0.5	0.5
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 is smaller than or equal to 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					

2 Safety device settings

	FXNQ20MA	FXNQ25MA	FXNQ32MA	FXNQ40MA	FXNQ50MA	FXNQ63MA
PC BOARD FUSE	250V 10A					
FAN MOTOR THERMAL PROTECTOR	°C OFF: 135 ^{±10} / ON: 120 or less					
3D034529C						

3 Options

	FXNQ20MA	FXNQ25MA	FXNQ32MA	FXNQ40MA	FXNQ50MA	FXNQ63MA
LONG LIFE REPLACEMENT FILTER	KAFJ361K28		KAFJ361K45			KAFJ361K71
4D034574B						



Long life replacement filter

4 Control systems

Individual control systems

		FXNQ20MA	FXNQ25MA	FXNQ32MA	FXNQ40MA	FXNQ50MA	FXNQ63MA
WIRED REMOTE CONTROL		BRC1D52 / BRC1D61 (1)					
INFRARED REMOTE CONTROL	Heat pump	BRC4C62					
	Cooling only	BRC4C64					
SIMPLIFIED REMOTE CONTROL		BRC2A51 / BRC2C51					
REMOTE CONTROL FOR HOTEL USE		BRC3A61					

Centralised control systems

		FXNQ20MA	FXNQ25MA	FXNQ32MA	FXNQ40MA	FXNQ50MA	FXNQ63MA
CENTRALISED REMOTE CONTROL		DCS302C51 / DCS302CA61 (1)					
UNIFIED ON/OFF CONTROL		DCS301C51 / DCS301BA61 (1)					
SCHEDULE TIMER		DST301C51 / DST301BA61 (1)					
RESIDENTIAL CENTRAL REMOTE CONTROL		DCS303A51 (1)(2)					

Others

		FXNQ20MA	FXNQ25MA	FXNQ32MA	FXNQ40MA	FXNQ50MA	FXNQ63MA
WIRING ADAPTER		KRP1B61					
WIRING ADAPTER FOR ELECTRICAL APPENDICES (1)		KRP2A51 / KRP2A61 (1)					
WIRING ADAPTER FOR ELECTRICAL APPENDICES (2)		KRP4A51					
REMOTE SENSOR		KRC501-1					
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					

4D034581A

NOTES

- 1 For DAME only
- 2 For residential use only. Cannot be used with other centralised control equipment

5 Capacity tables

5 - 1 Cooling capacity tables

FXNQ-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	SHC
20	2.2	10.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.6	1.8	2.9	1.8	
		12.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.6	1.8	2.9	1.7	
		14.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.6	1.8	2.8	1.7	
		16.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.6	1.8	2.8	1.7	
		18.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.6	1.8	2.7	1.7	
		20.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.6	1.8	2.7	1.6	
		21.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.6	1.8	2.7	1.6	
		23.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.6	1.8	2.6	1.6	
		25.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.6	1.7	2.6	1.6	
		27.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.5	1.7	2.6	1.6	
		29.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.5	1.7	2.5	1.6	
		31.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.7	2.5	1.6	
		33.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.8	2.4	1.7	2.5	1.6	
25	2.8	10.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.4	2.1	3.7	2.1	
		12.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.4	2.1	3.6	2.1	
		14.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.4	2.1	3.6	2.1	
		16.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.4	2.1	3.5	2.1	
		18.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.4	2.1	3.5	2.0	
		20.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.4	2.1	3.4	2.0	
		21.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.4	2.1	3.4	2.0	
		23.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.3	2.1	3.4	2.0	
		25.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.3	2.1	3.3	2.0	
		27.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.2	2.1	3.3	1.9	
		29.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.2	2.0	3.2	1.9	
		31.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.1	2.0	3.2	1.9	
		33.0	1.9	1.6	2.3	1.8	2.6	2.0	2.8	2.1	3.0	2.1	3.1	2.0	3.1	1.9	
32	3.6	10.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.3	2.6	4.7	2.6	
		12.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.3	2.6	4.7	2.6	
		14.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.3	2.6	4.6	2.6	
		16.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.3	2.6	4.6	2.5	
		18.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.3	2.6	4.5	2.5	
		20.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.3	2.6	4.4	2.5	
		21.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.3	2.6	4.4	2.5	
		23.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.2	2.6	4.3	2.4	
		25.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.2	2.6	4.3	2.4	
		27.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.1	2.5	4.2	2.4	
		29.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.1	2.5	4.2	2.4	
		31.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	4.0	2.5	4.1	2.4	
		33.0	2.4	2.1	2.9	2.2	3.4	2.5	3.6	2.5	3.8	2.6	3.9	2.4	4.0	2.3	
40	4.5	10.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.4	3.3	5.9	3.3	
		12.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.4	3.3	5.8	3.3	
		14.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.4	3.3	5.8	3.2	
		16.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.4	3.3	5.7	3.2	
		18.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.4	3.3	5.6	3.1	
		20.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.4	3.3	5.5	3.1	
		21.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.4	3.3	5.5	3.1	
		23.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.3	3.2	5.4	3.0	
		25.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.2	3.2	5.3	3.0	
		27.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.2	3.1	5.3	3.0	
		29.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.1	3.1	5.2	3.0	
		31.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	5.0	3.1	5.1	2.9	
		33.0	3.0	2.5	3.6	2.7	4.2	3.1	4.5	3.1	4.8	3.2	4.9	3.0	5.0	2.9	

CA03A095

5 Capacity tables

5 - 1 Cooling capacity tables

FXNQ-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	SHC
50	5.6	10.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.7	4.1	7.4	4.1
		12.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.7	4.1	7.3	4.1
		14.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.7	4.1	7.2	4.0
		16.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.7	4.1	7.1	4.0
		18.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.7	4.1	7.0	3.9
		20.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.7	4.1	6.9	3.9
		21.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.7	4.1	6.8	3.8
		23.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.6	4.0	6.7	3.8
		25.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.5	4.0	6.6	3.7
		27.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.4	3.9	6.6	3.7
		29.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.3	3.9	6.5	3.7
		31.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.2	3.8	6.4	3.7
		33.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	6.0	4.0	6.1	3.8	6.3	3.6
		35.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	5.9	4.0	6.0	3.8	6.2	3.6
		37.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	5.8	3.9	5.9	3.7	6.1	3.6
		39.0	3.8	3.0	4.5	3.4	5.2	3.8	5.6	3.9	5.7	3.9	5.8	3.7	6.0	3.5
63	7.1	10.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	8.5	5.1	9.3	5.0
		12.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	8.5	5.1	9.2	5.0
		14.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	8.5	5.1	9.1	4.9
		16.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	8.5	5.1	9.0	4.8
		18.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	8.5	5.1	8.8	4.8
		20.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	8.5	5.1	8.7	4.7
		21.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	8.5	5.1	8.7	4.7
		23.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	8.4	5.0	8.5	4.6
		25.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	8.3	5.0	8.4	4.5
		27.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	8.1	4.9	8.3	4.5
		29.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	8.0	4.8	8.2	4.5
		31.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	7.9	4.7	8.1	4.4
		33.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.6	5.0	7.8	4.7	7.9	4.4
		35.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.5	4.9	7.7	4.7	7.8	4.3
		37.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.4	4.9	7.5	4.6	7.7	4.2
		39.0	4.8	3.7	5.7	4.2	6.6	4.8	7.1	4.9	7.2	4.8	7.4	4.6	7.6	4.2

CA03A095

5 Capacity tables

5 - 2 Heating capacity tables

FXNQ-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	kW
20	2.5	-19.8	-20.0	1.5	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	1.5
		-16.7	-17.0	1.6	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	1.7
		-12.6	-13.0	1.8	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	1.9
		-9.5	-10.0	1.9	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	1.9
		-7.0	-7.6	2.0	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	2.1
		-3.0	-3.7	2.2	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	2.3	2.2
		3.0	2.2	2.5	2.5	2.4	2.4	2.3	2.3	2.2
		5.0	4.1	2.5	2.5	2.5	2.4	2.3	2.2	2.2
		7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2	2.2
		9.0	7.9	2.7	2.7	2.5	2.4	2.3	2.2	2.2
		11.0	9.8	2.8	2.7	2.5	2.4	2.3	2.2	2.2
13.0	11.8	2.8	2.7	2.5	2.4	2.3	2.2	2.2		
15.0	13.7	2.8	2.7	2.5	2.4	2.3	2.2	2.2		
25	3.2	-19.8	-20.0	1.9	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	1.9
		-16.7	-17.0	2.1	2.1	2.0	2.0	2.0	2.0	2.0
		-14.7	-15.0	2.2	2.2	2.2	2.2	2.2	2.1	2.1
		-12.6	-13.0	2.3	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	2.4
		-9.5	-10.0	2.5	2.4	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	2.5
		-7.0	-7.6	2.6	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	2.7
		-3.0	-3.7	2.8	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	3.0	2.8
		3.0	2.2	3.1	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	2.8
		7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8	2.8
		9.0	7.9	3.5	3.4	3.2	3.1	3.0	2.8	2.8
		11.0	9.8	3.6	3.4	3.2	3.1	3.0	2.8	2.8
13.0	11.8	3.6	3.4	3.2	3.1	3.0	2.8	2.8		
15.0	13.7	3.6	3.4	3.2	3.1	3.0	2.8	2.8		
32	4.0	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3	2.3	2.3
		-18.8	-19.0	2.4	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	2.5
		-14.7	-15.0	2.7	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	2.8
		-10.5	-11.0	3.0	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	3.0
		-8.5	-9.1	3.1	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	3.2
		-5.0	-5.6	3.4	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	3.5
		0.0	-0.7	3.7	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	3.5
		5.0	4.1	4.1	4.1	4.0	3.9	3.7	3.5	3.5
		7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5	3.5
		9.0	7.9	4.3	4.3	4.0	3.9	3.7	3.5	3.5
		11.0	9.8	4.5	4.3	4.0	3.9	3.7	3.5	3.5
13.0	11.8	4.5	4.3	4.0	3.9	3.7	3.5	3.5		
15.0	13.7	4.5	4.3	4.0	3.9	3.7	3.5	3.5		
40	5.0	-19.8	-20.0	3.0	2.9	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	3.0
		-16.7	-17.0	3.2	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	3.4
		-12.6	-13.0	3.6	3.6	3.6	3.5	3.5	3.5	3.5
		-10.5	-11.0	3.7	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	3.8
		-8.5	-9.1	3.9	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	4.0
		-5.0	-5.6	4.2	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	4.4
		0.0	-0.7	4.7	4.6	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	4.4
		5.0	4.1	5.1	5.1	5.0	4.8	4.7	4.4	4.4
		7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4	4.4
		9.0	7.9	5.4	5.3	5.0	4.8	4.7	4.4	4.4
		11.0	9.8	5.6	5.3	5.0	4.8	4.7	4.4	4.4
13.0	11.8	5.6	5.3	5.0	4.8	4.7	4.4	4.4		
15.0	13.7	5.6	5.3	5.0	4.8	4.7	4.4	4.4		

CA03A095

5 Capacity tables

5 - 2 Heating capacity tables

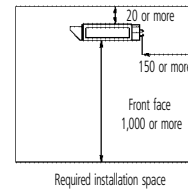
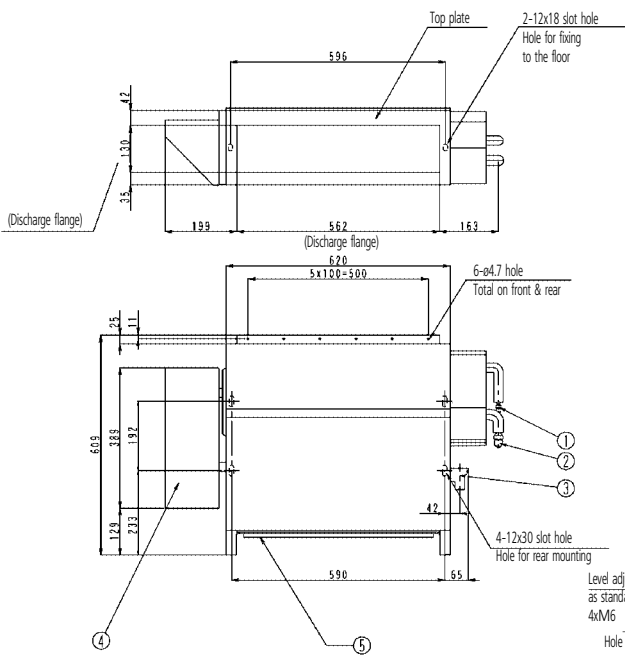
FXNQ-MA									
Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
50	6.3	-19.8	-20.0	3.7	3.7	3.7	3.7	3.7	3.7
		-18.8	-19.0	3.8	3.8	3.8	3.8	3.8	3.8
		-16.7	-17.0	4.1	4.0	4.0	4.0	4.0	4.0
		-14.7	-15.0	4.3	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		

CA03A095

6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

FXNQ20,25MA



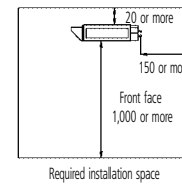
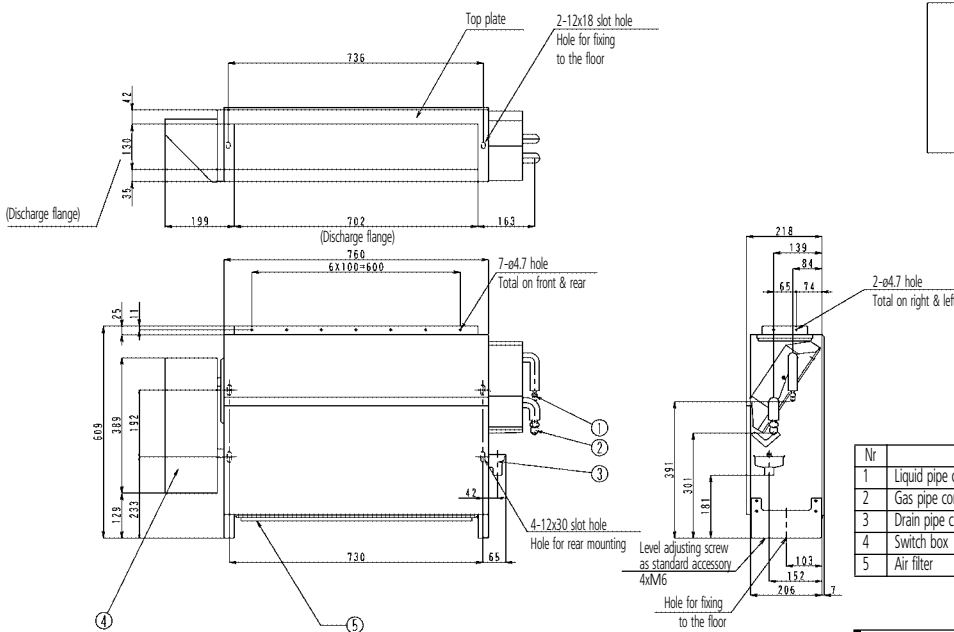
Nr	Part name	Description
1	Liquid pipe connection port	ø6.4 flare connection
2	Gas pipe connection port	ø12.7 flare connection
3	Drain pipe connection port	O.D. 21
4	Switch box	
5	Air filter	

NOTES

- 1 Location of unit's name plate: right lower corner of front plate.

3D038863A

FXNQ32,40MA



Nr	Part name	Description
1	Liquid pipe connection port	ø6.4 flare connection
2	Gas pipe connection port	ø12.7 flare connection
3	Drain pipe connection port	O.D. 21
4	Switch box	
5	Air filter	

NOTES

- 1 Location of unit's name plate: right lower corner of front plate.

3D038864B

6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

FXNQ50,63MA

Top plate
2-12x18 slot hole
Hole for fixing to the floor

(Discharge flange)
139
382
163

1015

42
103
15

20 or more
150 or more
Front face
1,000 or more
Required installation space

10-ø4.7 hole
Total on front & rear

2-ø4.7 hole
Total on right & left

4-12x30 slot hole
Hole for rear mounting

Level adjusting screw
as standard accessory
4xM6
Hole for fixing to the floor

518
383
139
118
118
1010

218
138
84
65
74
381
331
103
152
206

Piping size (Field supply)

Indoor unit	Gas side	Liquid side
FXNQ50MA	ø 12.7	ø 6.4
FXNQ63MA	ø 15.9	ø 9.5

Nr	Part name	Description
1	Liquid pipe connection port	flare connection
2	Gas pipe connection port	flare connection
3	Drain pipe connection port	O.D. 21
4	Switch box	
5	Air filter	

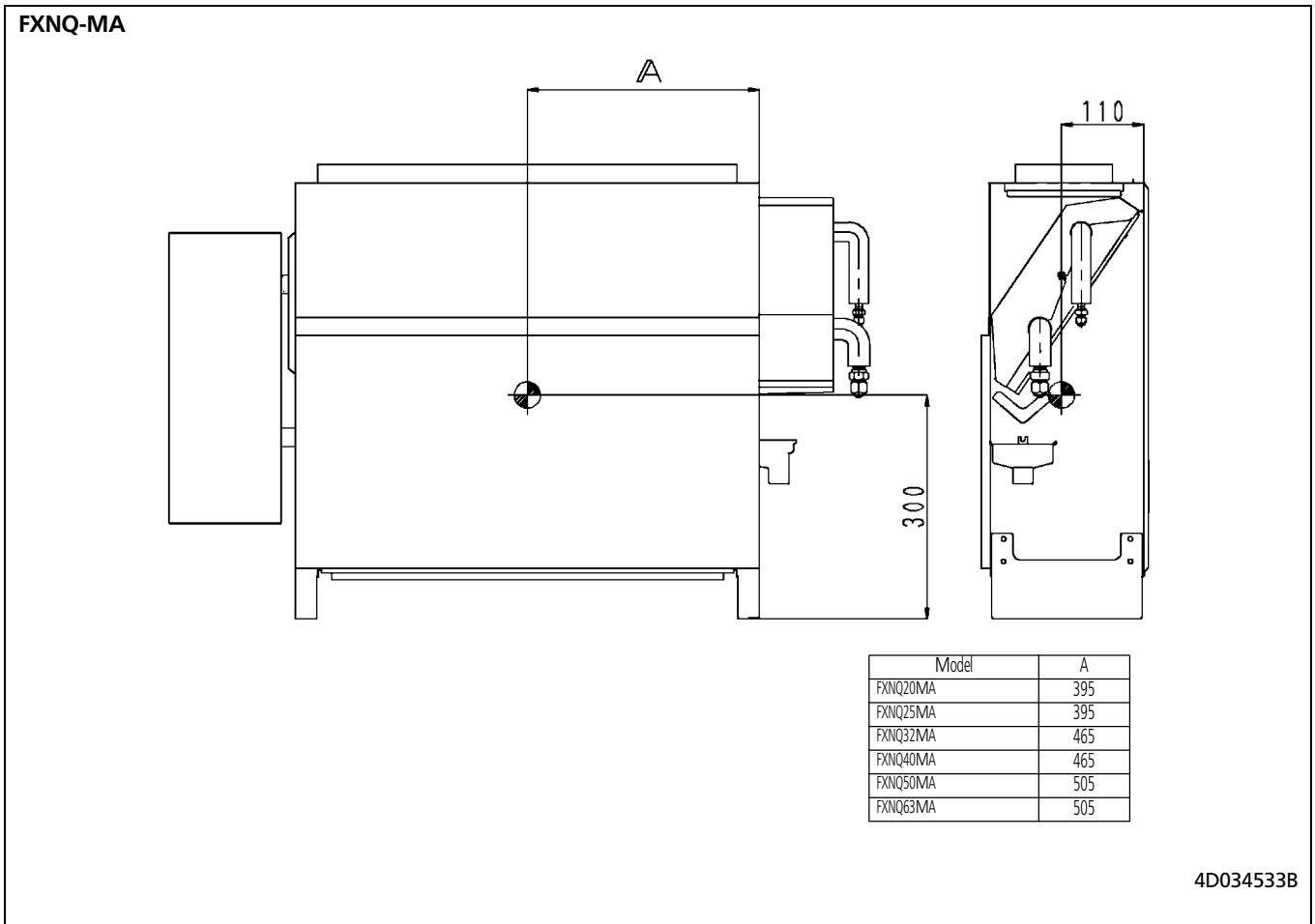
NOTES

1 Location of unit's name plate: right lower corner of front plate.

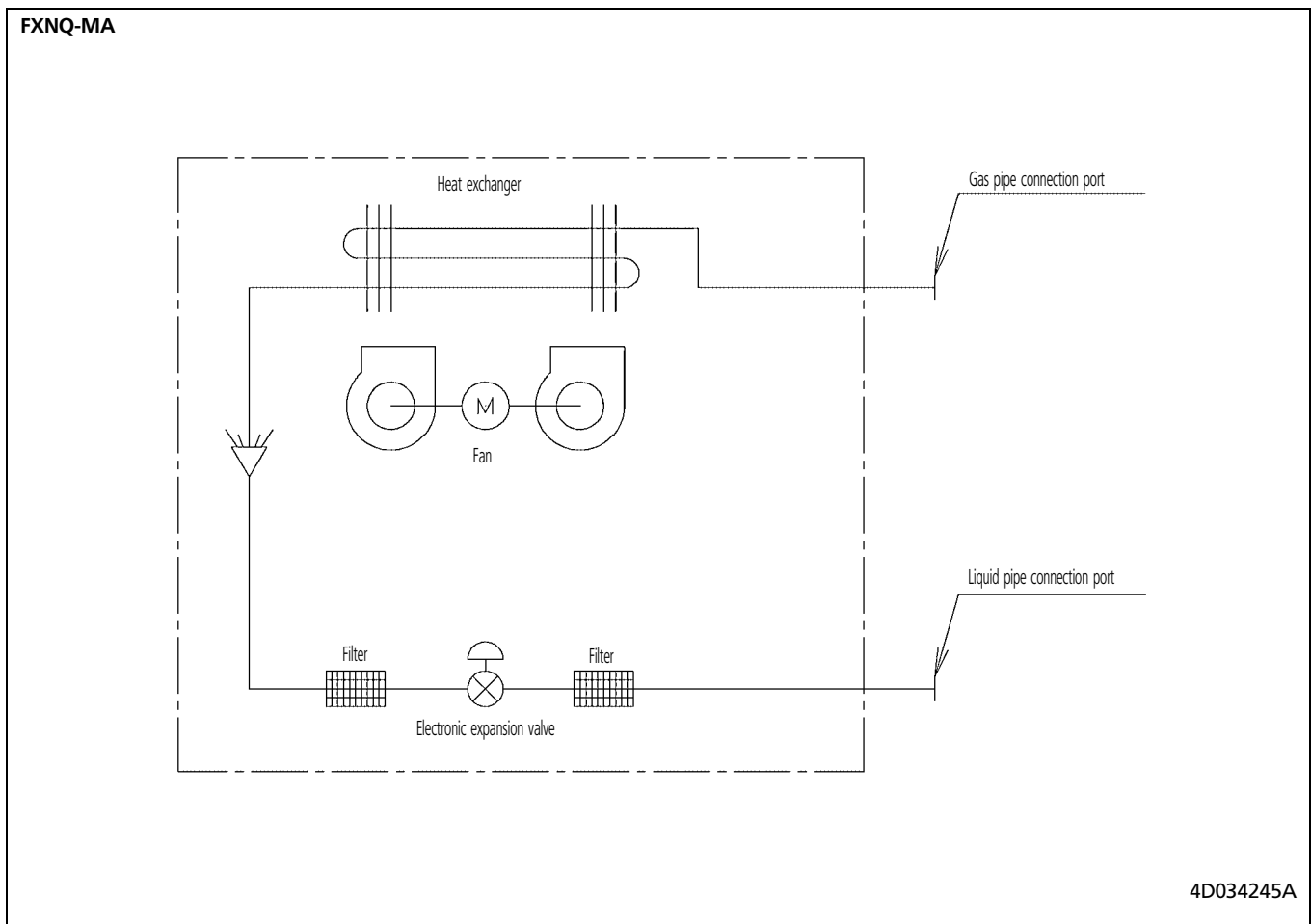
3D038865B

6 Dimensional drawing & centre of gravity

6 - 2 Centre of gravity



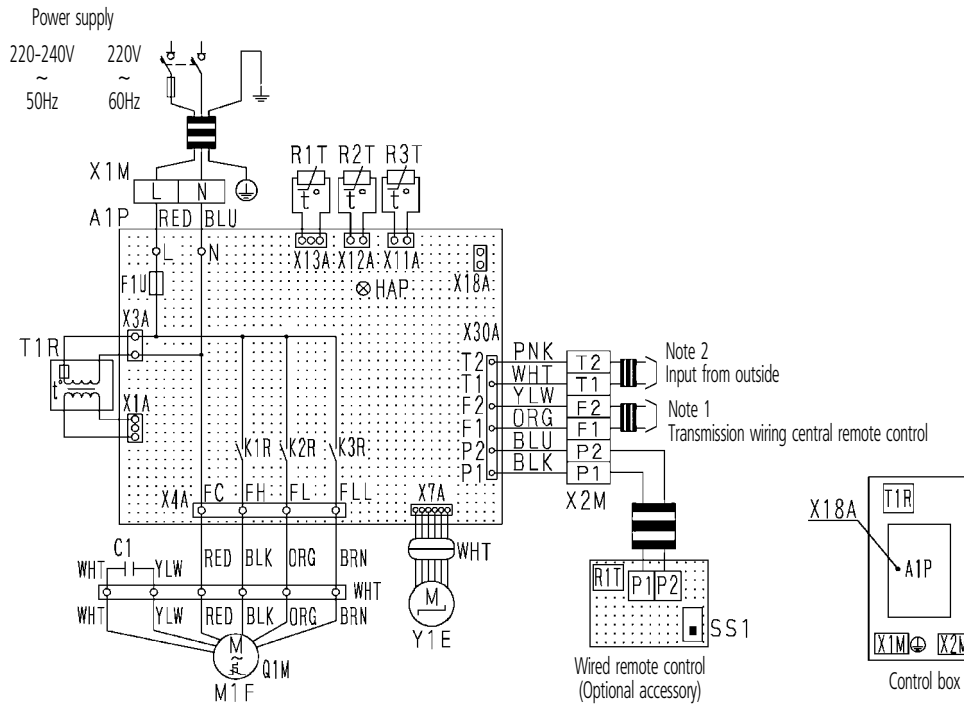
7 Piping diagram



8 Wiring diagram

8 - 1 Wiring diagram

FXNQ-MA



Indoor unit		R2T • R3T	Thermistor (Coil)
A1P	Printed circuit board	T1R	Transformer (220-240V/22V)
C1	Capacitor (M1F)	X1M	Terminal block (Power)
F1U	Fuse (5A, 250V)	X2M	Terminal block (Control)
HAP	Light emitting diode (Service monitor-green)	Y1E	Electronic expansion valve
K1R-K3R	Magnetic relay (M1F)		Wired remote control
M1F	Motor (Indoor fan)	R1T	Thermistor (Air)
Q1M	Thermo switch (M1F embedded)	SS1	Selector switch (Main/sub)
R1T	Thermistor (Air)		Connector for optional parts
		X18A	Connector (Wiring adapter for electrical appendices)

□ □ □ □ : Terminal block
 □ □ □ □, D- : Connector
 ○ : Terminal
 -||- : Field wiring

COLORS : BLK : Black PNK : Pink
 BLU : Blue RED : Red
 BRN : Brown WHT : White
 ORG : Orange YLW : Yellow

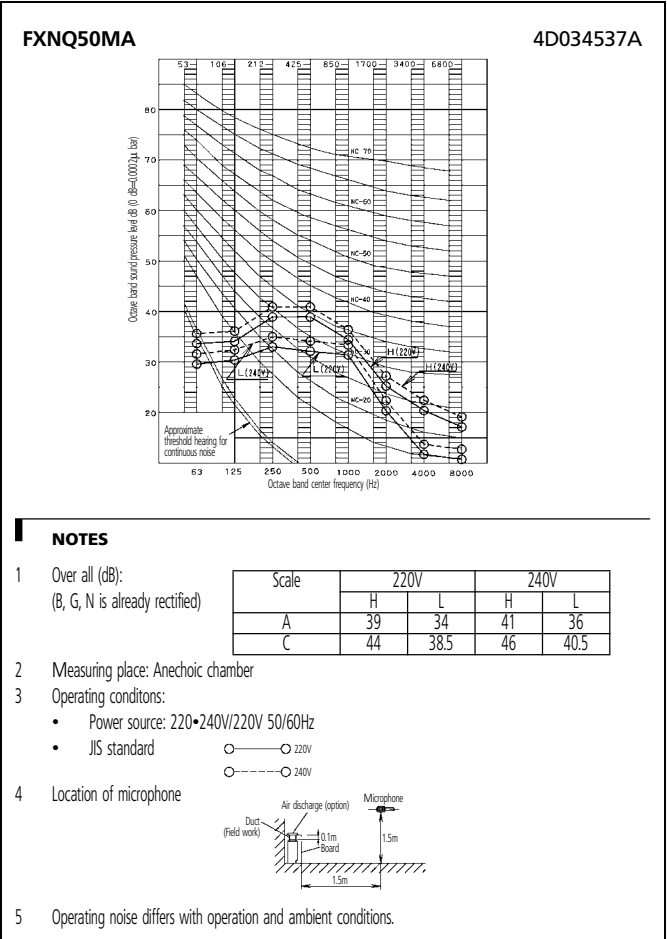
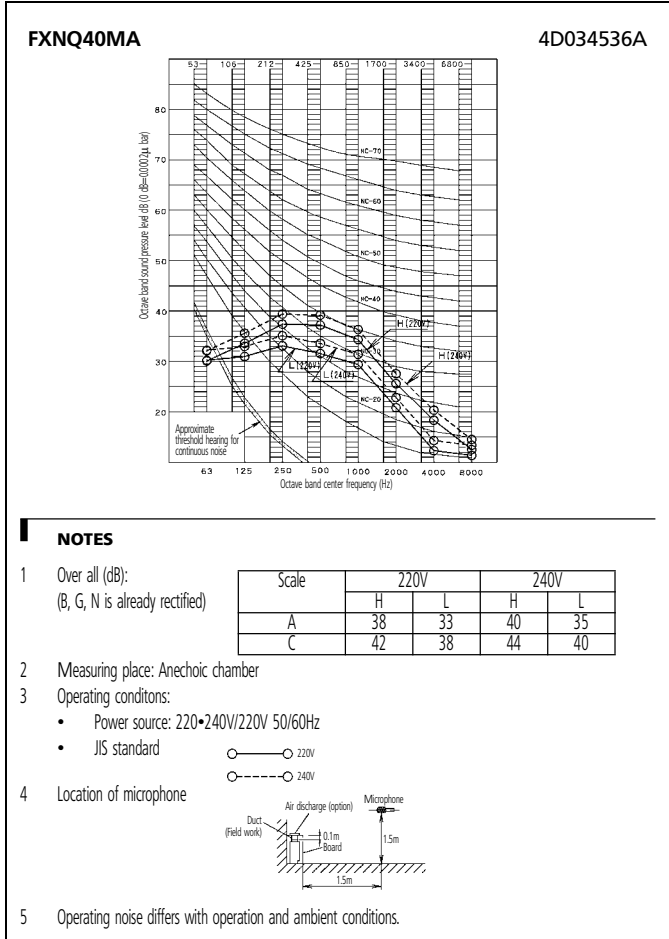
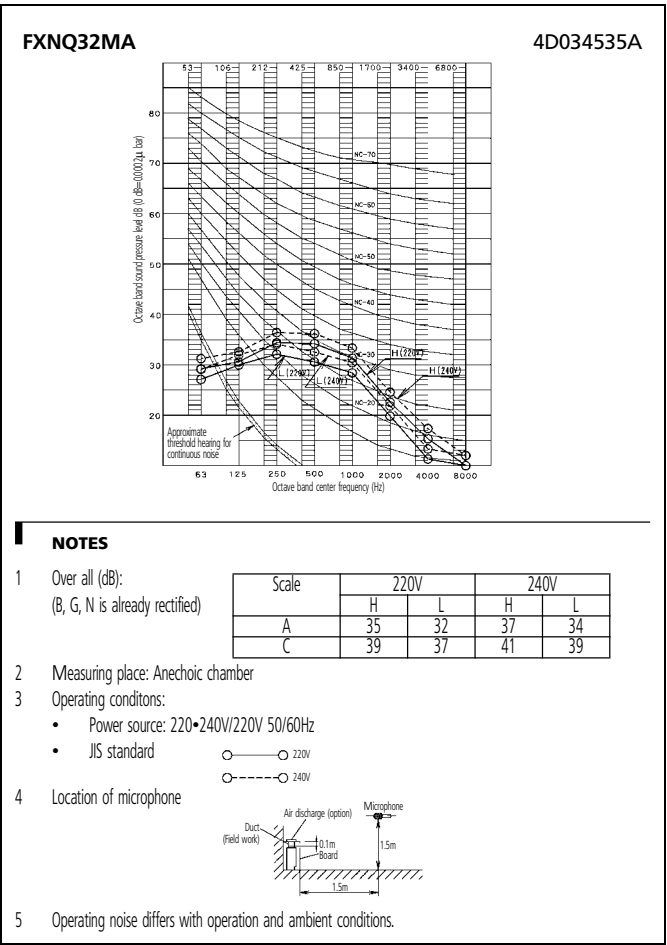
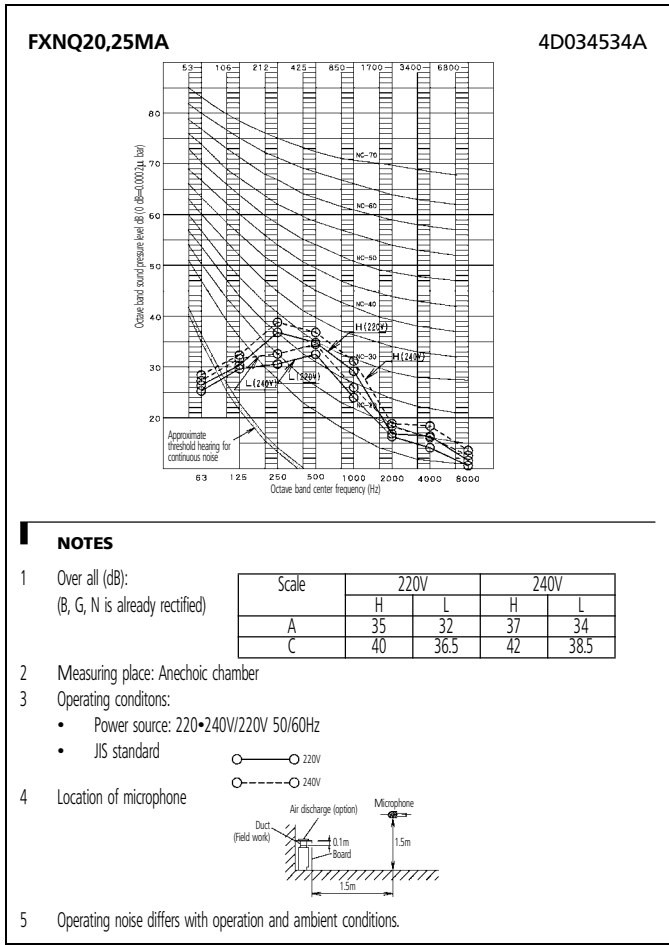
NOTES

- 1 In case using central remote control, connect it to the unit in accordance with the attached instruction manual.
- 2 When connecting the input wires from the outside, forced off or on/off control operation can be selected by remote control. In details, refer to the installation manual attached to the unit.
- 3 Use copper conductors only.

3D039826D

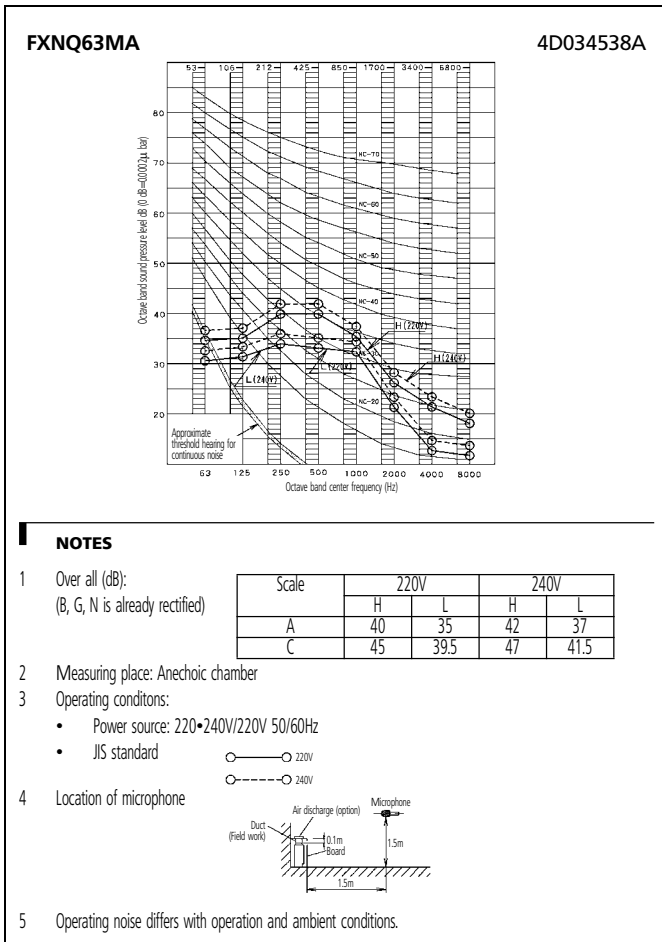
9 Sound data

9 - 1 Sound pressure spectrum



9 Sound data

9 - 1 Sound pressure spectrum

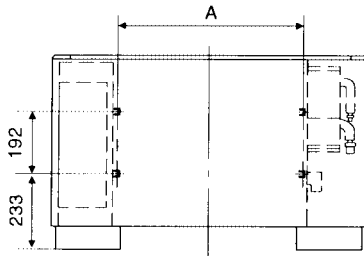


10 Installation

10 - 1 Suspension bolt pitch position

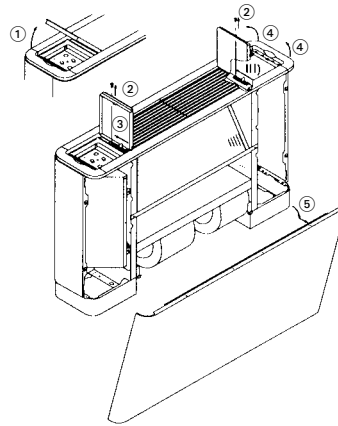
FXNQ-MA

- Positioning of holes for fastening to the wall



Model	A
FXNQ20,25MA	590
FXNQ32,40MA	730
FXNQ50,63MA	1,010

- How to open/close the front panel



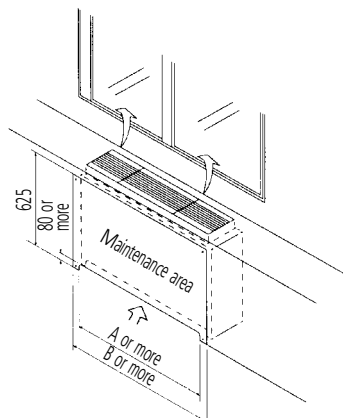
- 1 Open the lid of control panel (both left and right).
- 2 Remove screws (both left and right).
- 3 Push the knobs (both left and right) to the rear.
- 4 Lift the front of the top plate.
- 5 Lower the front panel towards the front of the unit.
- 6 To close, perform the procedure in opposite order. Pull towards the front until the knob snaps in place.

3PN86154-1-5

10 Installation

10 - 2 Service space

FXNQ-MA



Model	A	B
FXNQ20,25MA	570	1,030
FXNQ32,40MA	710	1,170
FXNQ50,63MA	990	1,450

NOTE

- 1 Leave sufficient clearance for air inlet and maintenance.

3P086154-1-4

In all of us,
a green heart



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intension to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



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.



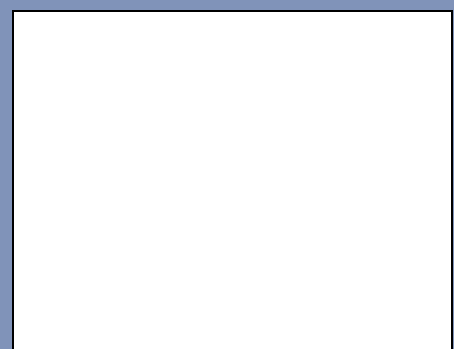
ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



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.

The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V.. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V..



DAIKIN EUROPE N.V.

Naamloze Vennootschap
Zandvoordestraat 300
B-8400 Oostende, Belgium
www.daikin.eu
BTW: BE 0412 120 336
RPR Oostende