DAIKIN

Air Conditioning

Technical Data

Ceiling suspended unit

EEDEN12-204

FXHQ-MA

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FXHQ-MA

1 Features

- User friendly remote control with contemporary design
- Can be installed in both new and existing buildings
- Easy to use: all main functions directly accessible
- Easy setup: clear graphical user interface for advanced menu settings
- Optimise your air conditioning system by activating a series of energy saving functions (temperature range limit, setback function, off timer, …)





2 Specifications

2-1 Technical Specifications					FXHQ32MA	FXHQ63MA	FXHQ100MA
Cooling capacity	Nom.			kW	3.6 (1)	7.1 (1)	11.2 (1)
Heating capacity	Nom.			kW	4.0 (2)	8.0 (2)	12.5 (2)
Power input - 50Hz	Cooling	Nom.		kW	0.111	0.115	0.135
	Heating	Nom.		kW	0.111	0.115	0.135
Power input - 60Hz	Cooling	Nom.		kW	0.142	0.145	0.199
	Heating	Nom.		kW	0.142	0.145	0.199
Casing	Colour				White (10Y9/0.5)		
Dimensions	Unit	Height		mm	195		
		Width		mm	960	1,160	1,400
		Depth		mm	680		
Weight	Unit			kg	24	28	33
Heat exchanger	Rows	Quantity			2	3	
	Fin pitch			mm	1.75		
	Face area			m²	0.182	0.233	0.293
	Stages	Quantity			12		
Fan	Type				Sirocco fan		
	Air flow rate - 50Hz	Cooling	High	m³/min	12	17.5	25
			Low	m³/min	10	14	19.5
	Air flow rate - 60Hz	Cooling	High	m³/min	12	17.5	25
			Low	m³/min	10	14	19.5
Fan motor	Model				3D12K1AA1	4D12K1AA1	3D12K2AA1
	Output	High		W	62		130
	Drive				Direct drive		
Sound pressure level	Cooling	High		dBA	36	39	45
		Low		dBA	31	34	37
Refrigerant	Type				R-410A		
	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				VP20 (I.D. 20/O.D. 26)		
	Heat insulation				Glass wool		
	Sound absorbing insulation				Glass Wool		
Temperature control					Microprocessor thermostat for cooling and heating		
Safety devices	Item	01			Fuse		
		02			Fan motor thermal protection		

Standard Accessories : Washer;
Standard Accessories : Clamps;
Standard Accessories : Insulation for fitting;
Standard Accessories : Clamp metal;
Standard Accessories : Paper pattern for installation;
Standard Accessories : Drain hose;
Standard Accessories : Installation manual;
Standard Accessories : Operation manual;

2-2 Electrical Specifications				FXHQ32MA	FXHQ63MA	FXHQ100MA
Power supply	Name			VE		
	Phase			1~		
	Frequency		Hz	50/60		
	Voltage		V	220-240/220		
Voltage range	Min.		%	-10		
	Max.		%	10		
Current - 50Hz	Minimum circuit amps (MCA)		A	0.8		0.9
	Maximum fuse amps (MFA)		A	15		
	Full load amps (FLA)	Total	A	0.6		0.7

2 Specifications

2-2 Electrical Specifications				FXHQ32MA	FXHQ63MA	FXHQ100MA
Current - 60Hz	Minimum circuit amps (MCA)		A	0.9		1.3
	Maximum fuse amps (MFA)		A	15		
	Full load amps (FLA)	Total	A	0.7		1.0

Notes

(1) Cooling: indoor temp. 27ºCDB, 19ºCWB; outdoor temp. 35ºCDB; equivalent piping length: 7.5m (horizontal)

(2) Heating: indoor temp. 20ºCDB; outdoor temp. 7ºCDB, 6ºCWB; equivalent refrigerant piping: 7.5m (horizontal)

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

(4) Sound pressure levels are measured at 220V.

(5) Reference acoustic pressure 0 dB = 0.0002 µbar.

(6) Sound levels are measured in an anechoic room.

(7) Operation sound differs with operation and ambient conditions

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

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

(10) MCA/MFA: MCA = 1.25 x FLA

(11) MFA ≤ 4 x FLA

(12) Next lower standard fuse rating minimum 15A

(13) Select wire size based on the value of MCA

(14) Use a circuit breaker instead of a fuse.

3 Electrical data

3 - 1 Electrical Data

FXHQ-MA

Units				Power supply		IFM		Input (W)	
Model	Hz	Volts	Voltage range	MCA	MFA	KW	FLA	Cooling	Heating
FXHQ32MA	50	220-240	Max. 264 Min. 198	0.8	15	0.062	0.6	111	111
FXHQ63MA				0.8	15	0.062	0.6	115	115
FXHQ100MA				0.9	15	0.130	0.7	135	135
FXHQ32MA	60	220	Max. 242 Min. 198	0.9	15	0.062	0.7	142	142
FXHQ63MA				0.9	15	0.062	0.7	145	145
FXHQ100MA				1.3	15	0.130	1.0	199	199

Symbols:
MCA: Min. Circuit Amps (A)
MFA: Max. Fuse Amps (See note 5)
KW: Fan Motor Rated Output (KW)
FLA: Full Load Amps (A)
IFM: Indoor Fan motor

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NOTES

1. Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
2. Maximum allowable voltage unbalance between phases is 2%.
3. MCA/MFA
   MCA = 1.25 X FLA
   MFA ≤ 4 X FLA (next lower standard fuse rating min. 15A)
4. Select wire size based on the MCA.
5. Instead of fuse, use circuit breaker.

4 Safety device settings

4 - 1 Safety Device Settings

FXHQ-MA

Safety devices		32	63	100
PC board fuse		250V 5A	250V 5A	250V 5A
Fan motor thermal fuse	°C	-	-	-
Fan motor thermal protector	°C	OFF: 130 $^{\pm 5}$ ON: 80 $^{\pm 20}$	OFF: 130 $^{\pm 5}$ ON: 80 $^{\pm 20}$	OFF: 130 $^{\pm 5}$ ON: 80 $^{\pm 20}$

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5 Options

5 - 1 Options

FXHQ-MA

Item \ Model	FXHQ32MA	FXHQ63MA	FXHQ100MA
Drain pump kit	KDU50N60VE	KDU50N125VE	
	(AS1702444)		
Replacement long-life filter (resin net)	KAF501DA56	KAF501DA80	KAF501DA112
	(AS3601666)		
L-type piping kit (for upward direction)	KHFP5MA63	KHFP5MA160	
	(AS2302443)		

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6 Control systems

6 - 1 Control Systems

FXHQ-MA

No.	Item / Type			FXHQ-MA
1	Remote control	Infrared	H/P	BRC7E63W
			C/O	BRC7E66
		Wired		BRC1D52 / BRC1E51A / BRC1E52A/B / BRC1D61 (7)
2	Simplified remote control			—
3	Remote control for hotel use			—
4	Adapter for wiring			KRP1B3
5-1	Wiring adapter for electrical appendices (1)			* KRP2A62
5-1	Wiring adapter for electrical appendices (2)			* KRP4A52
6	Remote sensor			KRCS01-1
7	Mounting plate for adapter PCB			KRP1C93 (Note 3)
8	Central remote control			DCS302C51 / DCS302C61 (7)
8-1	Electrical box with earth terminal (3 blocks)			KJB311A
9	Unified on/off control			DCS301B51 / DCS301B61 (7)
9-1	Electrical box with earth terminal (2 blocks)			KJB212A
9-2	Noise filter (for electromagnetic interface use only)			KEK26-1
10	Schedule timer			DST301B51 / DST301B61 (7)
11	External control adapter for outdoor unit (must be installed on indoor units)			* DTA104A62
12	Residential remote control			DCS303A51 (7)(8)

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NOTES

1. Installation box (No. 7) is necessary for each adapter marked *.
2. Up to 2 adapters can be fixed for each intallation box.
3. Only one installation box can be installed for each indoor unit.
4. Up to 2 installation boxes can be installed for each indoor unit.
5. Installation box (No. 7) is necessary for second adapter.
6. Installation box (No. 7) is necessary for each adapter.
7. DAME only
8. For residential use only. Cannot be combined with other centralised control equipment.

7 Capacity tables

7 - 1 Cooling Capacity Tables

FXHQ-MA

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

Unit size	Nominal capacity	Outdoor air temp.	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	
		°CDB	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
32	3.6	10.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.7	3.1
		12.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.7	3.0
		14.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.6	3.0
		16.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.6	3.0
		18.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.5	2.9
		20.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.4	2.9
		21.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.3	3.0	4.4	2.9
		23.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.2	3.0	4.3	2.8
		25.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.2	2.9	4.3	2.8
		27.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.1	2.9	4.2	2.8
		29.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.1	2.9	4.2	2.7
		31.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	4.0	2.8	4.1	2.7
		33.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	3.9	2.8	4.0	2.7
		35.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.8	2.9	3.9	2.8	4.0	2.7
		37.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.7	2.9	3.8	2.8	3.9	2.7
		39.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.7	2.9	3.8	2.7	3.8	2.6
63	7.1	10.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.5	5.5	9.3	5.6
		12.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.5	5.5	9.2	5.5
		14.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.5	5.5	9.1	5.4
		16.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.5	5.5	9.0	5.3
		18.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.5	5.5	8.8	5.3
		20.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.5	5.5	8.7	5.2
		21.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.5	5.5	8.7	5.2
		23.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.4	5.4	8.5	5.1
		25.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.3	5.4	8.4	5.1
		27.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.1	5.3	8.3	5.0
		29.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.0	5.2	8.2	5.0
		31.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	7.9	5.1	8.1	4.9
		33.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	7.8	5.1	7.9	4.9
		35.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.5	5.3	7.7	5.1	7.8	4.8
		37.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.4	5.2	7.5	5.0	7.7	4.8
		39.0	4.8	4.1	5.7	4.6	6.6	5.1	7.1	5.2	7.2	5.1	7.4	5.0	7.6	4.7
100	11.2	10.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	13.4	8.5	14.7	8.7
		12.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	13.4	8.5	14.5	8.5
		14.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	13.4	8.5	14.4	8.4
		16.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	13.4	8.5	14.2	8.3
		18.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	13.4	8.5	14.0	8.2
		20.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	13.4	8.5	13.8	8.1
		21.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	13.4	8.5	13.7	8.0
		23.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	13.2	8.3	13.5	7.9
		25.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	13.0	8.2	13.3	7.8
		27.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	12.8	8.1	13.1	7.7
		29.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	12.6	8.0	12.9	7.6
		31.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	12.4	7.9	12.7	7.6
		33.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.9	8.1	12.2	7.8	12.5	7.5
		35.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.8	8.1	12.1	7.7	12.3	7.4
		37.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.6	8.0	11.9	7.7	12.2	7.3
		39.0	7.6	6.2	9.0	6.9	10.5	7.8	11.2	8.0	11.4	7.9	11.7	7.6	12.0	7.2

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7 Capacity tables

7 - 2 Heating Capacity Tables

FXHQ-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
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
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
100	12.5	-19.8	-20.0	7.4	7.4	7.3	7.3	7.3	7.3
		-18.8	-19.0	7.6	7.6	7.6	7.5	7.5	7.5
		-16.7	-17.0	8.0	8.0	8.0	8.0	8.0	8.0
		-14.7	-15.0	8.5	8.5	8.4	8.4	8.4	8.4
		-12.6	-13.0	8.9	8.9	8.9	8.9	8.9	8.8
		-10.5	-11.0	9.4	9.3	9.3	9.3	9.3	9.3
		-9.5	-10.0	9.6	9.6	9.5	9.5	9.5	9.5
		-8.5	-9.1	9.8	9.8	9.7	9.7	9.7	9.7
		-7.0	-7.6	10.1	10.1	10.1	10.1	10.1	10.0
		-5.0	-5.6	10.6	10.5	10.5	10.5	10.5	10.5
		-3.0	-3.7	11.0	11.0	10.9	10.9	10.9	10.9
		0.0	-0.7	11.6	11.6	11.6	11.6	11.6	10.9
		3.0	2.2	12.3	12.3	12.2	12.1	11.7	10.9
		5.0	4.1	12.7	12.7	12.5	12.1	11.7	10.9
		7.0	6.0	13.1	13.1	12.5	12.1	11.7	10.9
		9.0	7.9	13.5	13.3	12.5	12.1	11.7	10.9
		11.0	9.8	14.0	13.3	12.5	12.1	11.7	10.9
		13.0	11.8	14.1	13.3	12.5	12.1	11.7	10.9
		15.0	13.7	14.1	13.3	12.5	12.1	11.7	10.9

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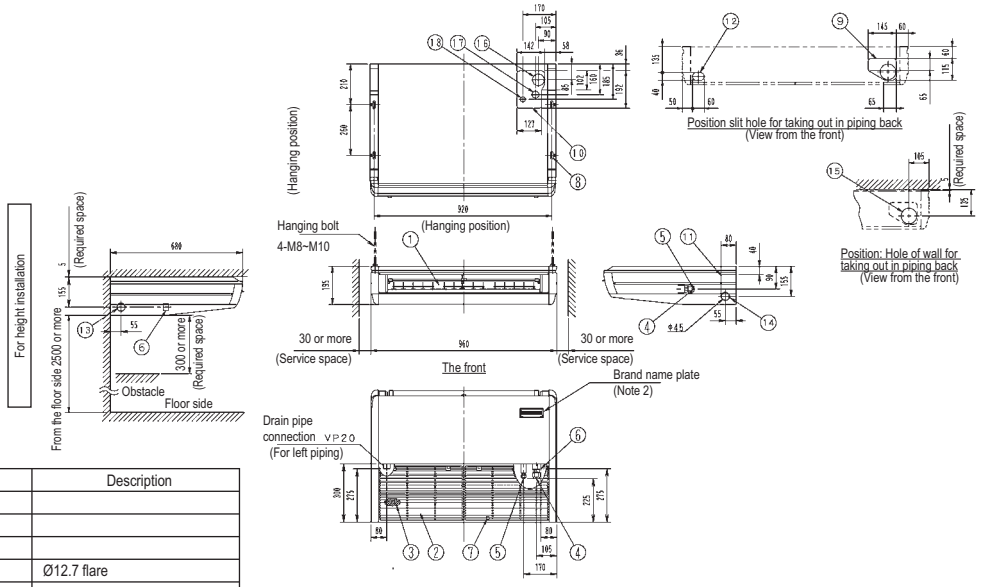
8 Dimensional drawings

8 - 1 Dimensional Drawings

FXHQ32MA



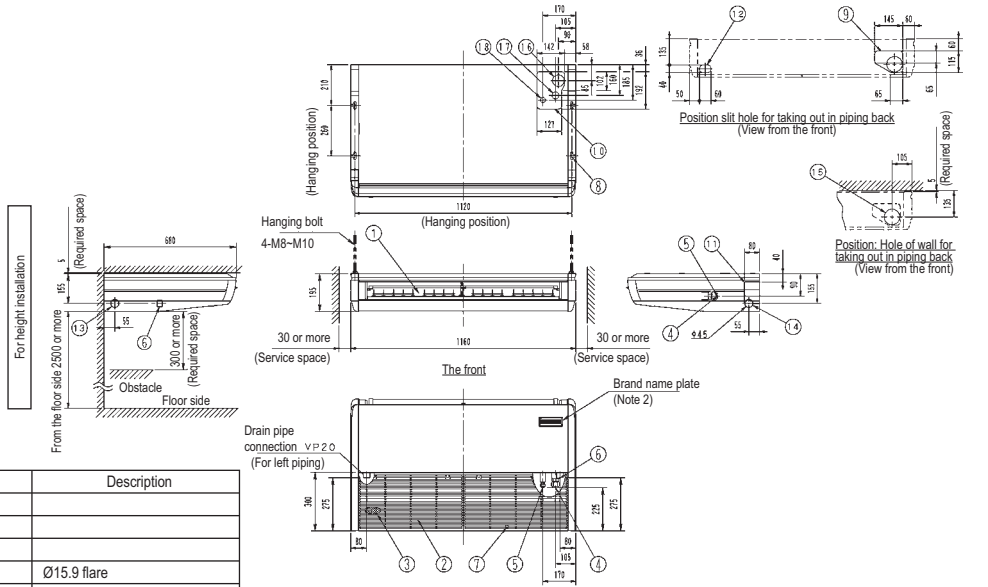
3D038855A

Number	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	Ø12.7 flare
5	Liquid pipe connection	Ø6.4 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside the electric components box)	M4
8	Suspension bracket	
9	Backward piping and wiring connection opening lid	
10	Upward piping and wiring connection opening lid	
11	Right side pipe connection	Slit hole
12	Left back drain pipe connection	Slit hole
13	Left side drain pipe connection	Slit hole
14	Right side drain pipe connection	Slit hole
15	Hole of wall for taking out in piping back	Ø100
16	Upward drain pipe connection	Ø60
17	Upward gas pipe connection	Ø36
18	Upward liquid pipe connection	Ø26

NOTES

1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.
3. The remote control code is the standard <about 3m outside the machine> attached.
   (0.5mm² X 2 wicks X O.D. Ø 5.4)
   (It is not attached to VRV.)

FXHQ63MA



3D038856A

Number	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	Ø15.9 flare
5	Liquid pipe connection	Ø9.5 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside the electric components box)	M4
8	Suspension bracket	
9	Backward piping and wiring connection opening lid	
10	Upward piping and wiring connection opening lid	
11	Right side pipe connection	Slit hole
12	Left back drain pipe connection	Slit hole
13	Left side drain pipe connection	Slit hole
14	Right side drain pipe connection	Slit hole
15	Hole of wall for taking out in piping back	Ø100
16	Upward drain pipe connection	Ø60
17	Upward gas pipe connection	Ø36
18	Upward liquid pipe connection	Ø26

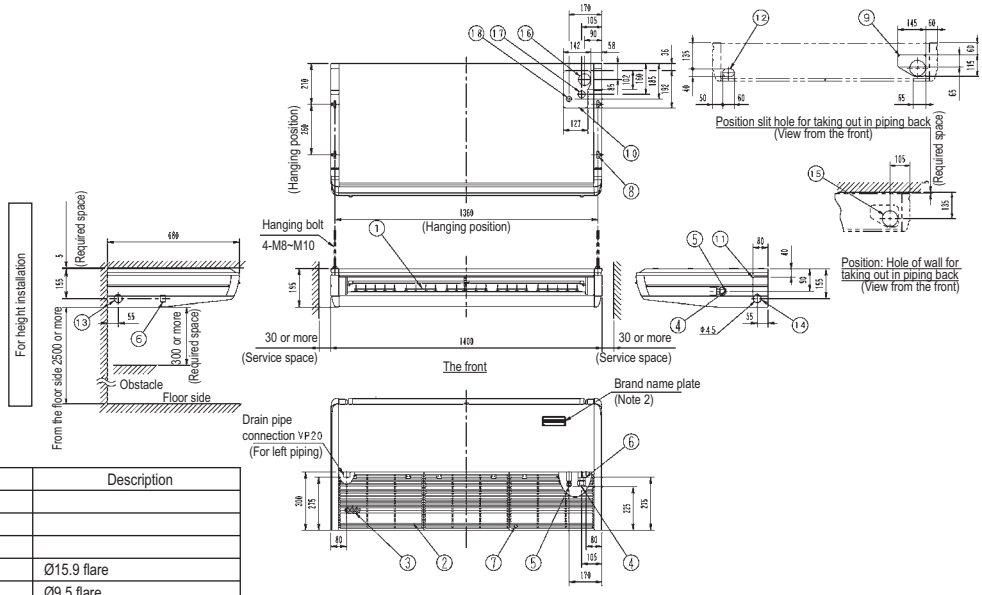
NOTES

1. Location of unit's name plate: bottom of fan housing inside the suction grille.
2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.
3. The remote control code is the standard <about 3m outside the machine> attached.
   (0.5mm² X 2 wicks > O.D. Ø 5.4)
   (It is not attached to VRV.)

8 Dimensional drawings

8 - 1 Dimensional Drawings

FXHQ100MA



Number	Name	Description
1	Air discharge grille	
2	Air suction grille	
3	Air filter	
4	Gas pipe connection	Ø15.9 flare
5	Liquid pipe connection	Ø9.5 flare
6	Drain pipe connection	VP20
7	Earth terminal (inside the control box)	M4
8	Suspension bracket	
9	Backward piping and wiring connection opening lid	
10	Upward piping and wiring connection opening lid	
11	Right side pipe connection	Slit hole
12	Left back drain pipe connection	Slit hole
13	Left side drain pipe connection	Slit hole
14	Right side drain pipe connection	Slit hole
15	Hole of wall for taking out in piping back	Ø100
16	Upward drain pipe connection	Ø60
17	Upward gas pipe connection	Ø36
18	Upward liquid pipe connection	Ø26

3D038857C

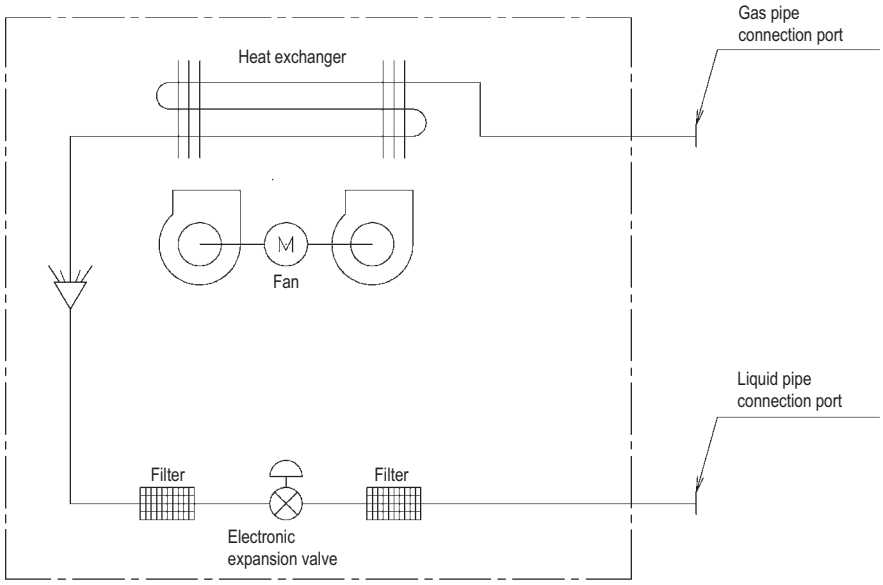
NOTES

1. Location of unit's Name plate: Bottom of fan housing inside the suction grille.
2. In case of using infrared remote control, this position will be a signal receiver. Refer to the drawing of infrared remote control in detail.

9 Piping diagrams

9 - 1 Piping Diagrams

FXHQ-MA



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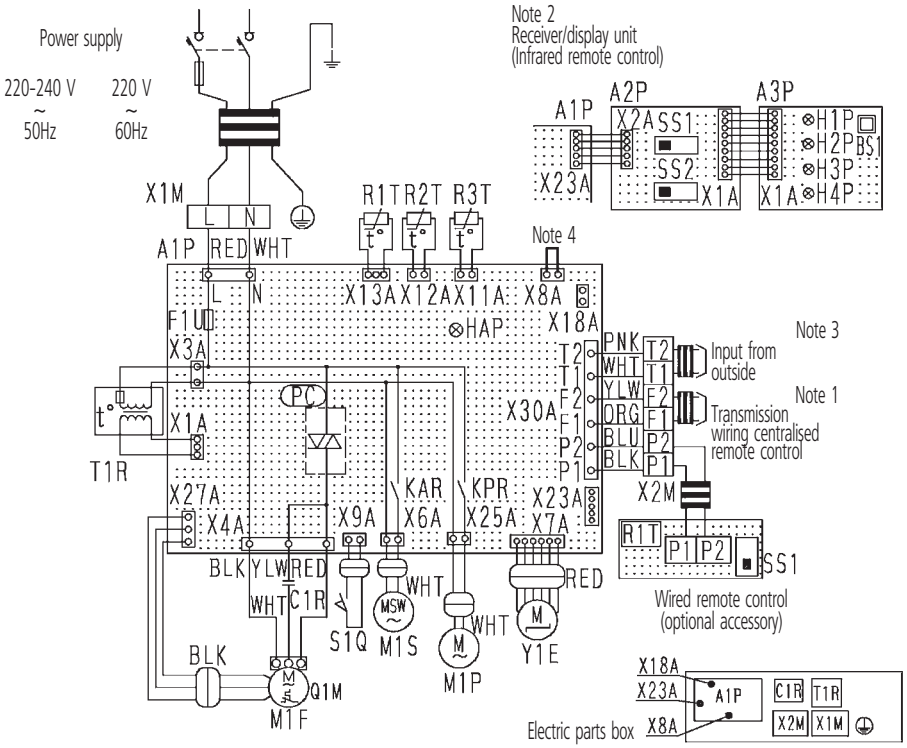
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXHQ-MA



Indoor unit				Receiver/display unit (Attached to infrared remote control)	
A1P	Printed circuit board	T1R	Transformer (220-240V/22V)	A2P	Printed circuit board
C1R	Capacitor (M1F)	X1M	Terminal block (Power)	A3P	Printed circuit board
F1U	Fuse (Ⓑ, 5A, 250V)	X2M	Terminal block (Control)	BS1	Push button (On/off)
HAP	Light emitting diode (Service monitor-green)	Y1E	Electronic expansion valve	H1P	Light emitting diode (On red)
KAR	Magnetic relay (M1S)	PC	Phase control circuit	H2P	Light emitting diode (Timer green)
KPR	Magnetic relay (M1P)			H3P	Light emitting diode (Filter sign-red)
M1F	Motor (Indoor fan)	Optional parts		H4P	Light emitting diode (Defrost orange)
M1S	Motor (Swing flap)	M1P	Motor (Drain pump)	SS1	Selector switch (Main/sub)
Q1M	Thermo switch (M1F embedded)			SS2	Selector switch (Wireless address set)
R1T	Thermistor (Air)	Wired remote control		Connector for optional parts	
R2T	Thermistor (Coil liquid)	R1T	Thermistor (Air)	X8A	Connector (Float switch)
R3T	Thermistor (Coil gas)	SS1	Selector switch (Main/sub)	X18A	Connector (Wiring adapter for electrical appendices)
S1Q	Limit switch (Swing flap)			X23A	Connector (Infrared remote control)

: Terminal
, D– : Connector
: Short circuit connector
: Field wiring

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

NOTES

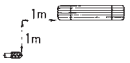
1 In case of using centralised remote control, connect it to the unit in accordance with the attached instruction manual.
2 X23A is connected when the infrared remote control kit is being used.
3 When connecting the input wires from the outside, forced off or on/off control operation can be selected by remote control. In details, refer to the installation manual attached to the unit.
4 In case of installing the drain pump, remove the short circuit connector of X8A and execute the additional wiring for float switch and drain pump.
5 Use copper conductors only.

3D039801D

11 Sound data

11 - 1 Sound Level Data

FXHQ-MA

Model	Sound pressure level - 220V			Sound power level
	H	L	Measuring location	
FXHQ32MA	36	31		*
FXHQ63MA	39	34		*
FXHQ100MA	45	37		*

NOTES

1 Reference acoustic pressure 0 dB = 0.0002 bar.

2 Measuring place: anechoic chamber.

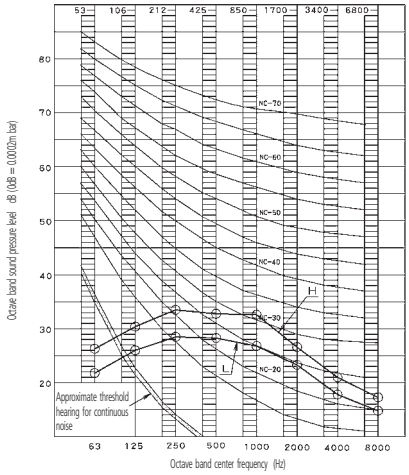
3 Operating noise differs with operation and ambient conditions.

* Data were not available at time of publication.

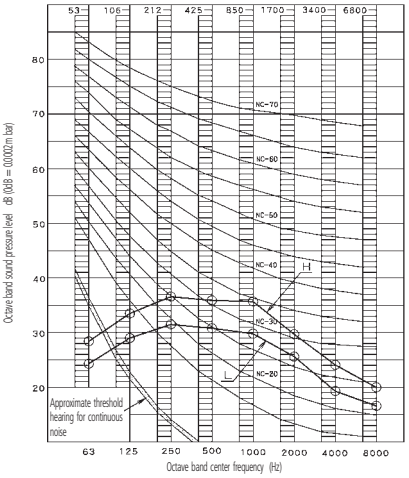
11 Sound data

11 - 2 Sound Pressure Spectrum

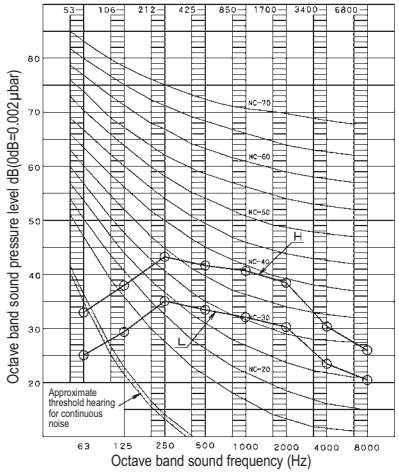
FXHQ32MA 4D035301



FXHQ63MA 4D035302



FXHQ100MA



4D035303A

NOTES

Scale	Hi	Low
A	45	37
C	47	40

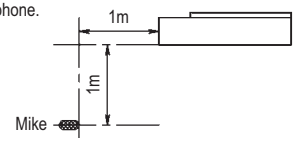
1 Over All (dB):
(B,G,N is already rectified)

2 Operating conditions:
- Power source: 220-240/220V 50/60Hz
- Cooling: Return air temperature: 27°C DB, 19°C WB
  Outdoor temperature: 35°C DB, 24°C WD
- Heating: Return air temperature: 20°C DB, 15°C WB
  Outdoor temperature: 7°C DB, 6°C WD

3 Measuring place: Anechoic chamber.

4 Operation noise differs with operation and ambient conditions.

6 Location of microphone.



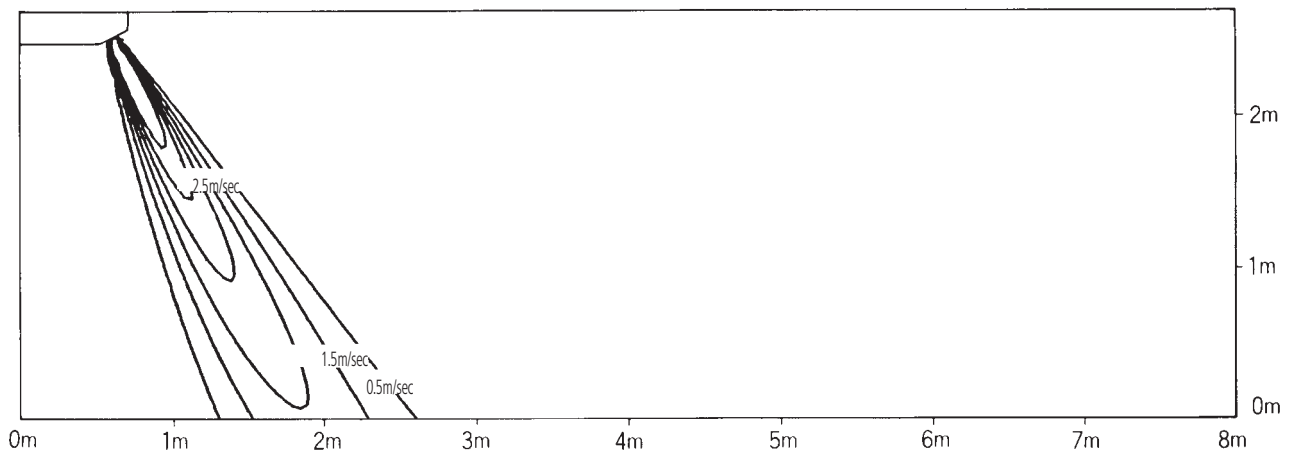
12 Air flow patterns

12 - 1 Air Flow Pattern - Heating

FXHQ100MA

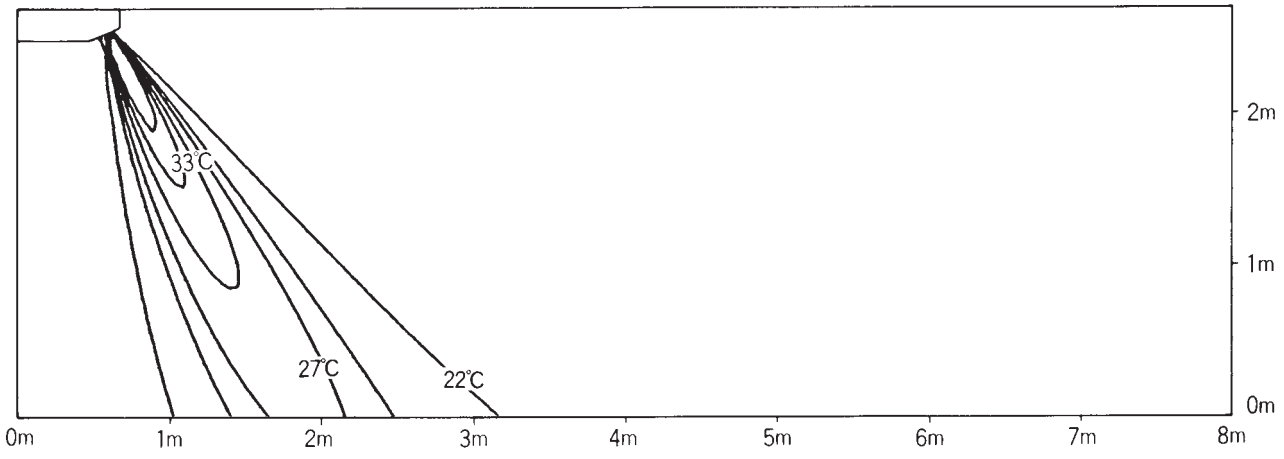
Heating Air velocity distribution

center air blow



Heating Temperature distribution

center air blow



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