



Air Conditioning Technical Data

Ceiling mounted corner cassette



EEEN13-204

FXKQ-MA

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FXKQ-MA

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1 Features

- Compact dimensions, can easily be mounted in a narrow ceiling void (only 220mm ceiling space required, 195 with panel spacer, available as accessory)
- Optimum air flow conditions are created by either downward air discharge or frontal air discharge (via optional grille) or a combination of both
- Standard drain pump with 500mm lift

1



Inverter



Home leave operation



Fan only



Draught prevention



Auto cooling-heating changeover



Ceiling soiling prevention



Vertical auto swing



Fan speed steps



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Drain pump kit

2 Specifications

2-1 Technical Specifications					FXKQ25MA		FXKQ32MA		FXKQ40MA		FXKQ63MA	
Cooling capacity	Nom.			kW	2.8 (1)		3.6 (1)		4.5 (1)		7.10 (1)	
Heating capacity	Nom.			kW	3.2 (2)		4.0 (2)		5.0 (2)		8.00 (2)	
Power input - 50Hz	Cooling	Nom.	kW	0.066					0.076		0.105	
	Heating	Nom.	kW	0.046					0.056		0.085	
Power input - 60Hz	Cooling	Nom.	kW	0.069					0.092		0.120	
	Heating	Nom.	kW	0.049					0.072		0.100	
Casing	Material				Galvanised steel plate							
Dimensions	Unit	Height	mm		215							
		Width	mm		1,110						1,310	
		Depth	mm		710							
Weight	Unit			kg	31						34	
Decoration panel	Model				BYK45FJW1						BYK 71FJW1	
	Colour				White							
	Dimensions	Height	mm		70							
		Width	mm		1,240						1,440	
		Depth	mm		800							
	Weight			kg	8.5						9.5	
Heat exchanger	Type				Cross fin coil							
	Rows	Quantity			2						3	
	Fin pitch			mm	1.75							
	Face area			m ²	0.180						0.226	
	Stages	Quantity			11							
Fan	Type				Sirocco fan							
	Quantity				1							
	Air flow rate - 50Hz	Cooling	High	m ³ /min	11				13		18	
			Low	m ³ /min	9				10		15	
	Air flow rate - 60Hz	Cooling	High	m ³ /min	11				13		18	
			Low	m ³ /min	8.5				10		13	
Fan motor	Quantity				1							
	Model				3D12H1AN1V1				3D12H1AP1V1		4D12H1AJ1V1	
	Output	High		W	15				20		45	
	Drive				Direct drive							
Sound pressure level	Cooling	High	dBA		38.0				40.0		42.0	
		Low	dBA		33.0				34.0		37.0	
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				VP 25 (O.D. 32 / I.D. 25)							
	Heat insulation				Foamed Polyethylene							
Temperature control					Microprocessor thermostat for cooling and heating							
Air filter	Type				Resin net with mold resistance							
Safety devices	Item	01			Fuse							
		02			Fan motor thermal fuse							

Standard Accessories : Air outlet blocking pad;

Standard Accessories : Washer;

Standard Accessories : Screws;

Standard Accessories : Sealing pads;

Standard Accessories : Insulation for fitting;

Standard Accessories : Clamp metal;

Standard Accessories : Drain hose;

Standard Accessories : Positioning jig for installation;

Standard Accessories : Insulation for hanger bracket;

Standard Accessories : Clamps;

2 Specifications

Standard Accessories : Paper pattern for installation;

Standard Accessories : Installation manual;

Standard Accessories : Operation manual;

2

2-2 Electrical Specifications				FXKQ 25MA	FXKQ 32MA	FXKQ 40MA	FXKQ 63MA
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	0.3			0.5
	Maximum fuse amps (MFA)		A	15			
	Full load amps (FLA)	Total	A	0.2			0.4
Current - 60Hz	Minimum circuit amps (MCA)		A	0.4		0.5	0.6
	Maximum fuse amps (MFA)		A	15			
	Full load amps (FLA)	Total	A	0.3		0.4	0.5

Notes

- (1) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m (horizontal)
- (2) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; 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) Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits.
- (5) Maximum allowable voltage range variation between phases is 2%.
- (6) MCA/MFA: $MCA = 1.25 \times FLA$
- (7) $MFA \leq 4 \times FLA$
- (8) Next lower standard fuse rating minimum 15A
- (9) Select wire size based on the value of MCA
- (10) Use a circuit breaker instead of a fuse.

3 Safety device settings

3 - 1 Safety Device Settings

FXKQ-MA

	Safety devices		25	32	40	63
FXKQ-MA	PC board fuse		250V 5A	250V 5A	250V 5A	250V 5A
	Fan motor thermal fuse	°C	146 ⁺³	146 ⁺³	-	-
	Fan motor thermal protector	°C	-	-	Off: 120 ⁺⁵ (On: 105 or less)	Off: 120 ⁺⁵ (On: 105 or less)
	Drain pump thermal fuse	°C	145	145	145	145

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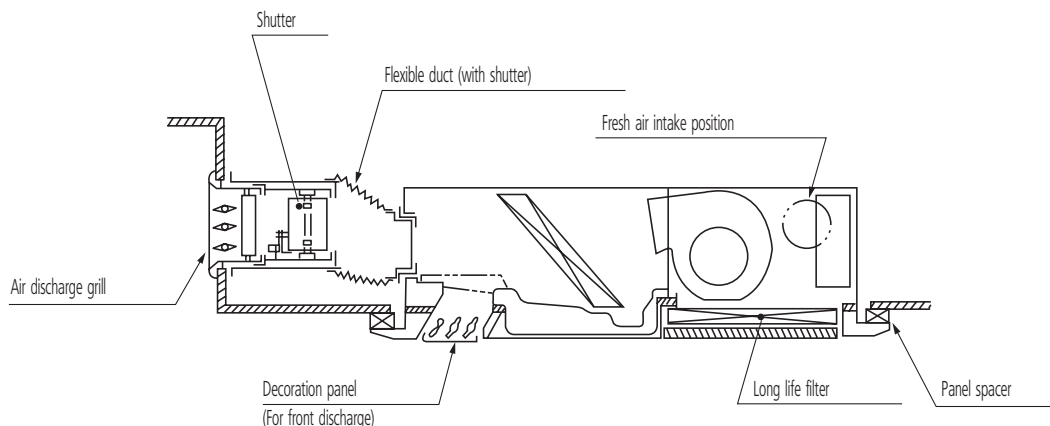
4 Options

4 - 1 Options

4

	FXKQ25MA	FXKQ32MA	FXKQ40MA	FXKQ63MA
DECORATION PANEL		BYK45FJW1		BYK71FJW1
PANEL SPACER		KPBJ52F56W		KPBJ52F80W
LONG LIFE REPLACEMENT FILTER		KAFJ521F56		KAFJ521F80
AIR DISCHARGE GRILL		K-HV7AW		K-HV9AW
AIR DISCHARGE BLIND PANEL		KDBJ52F56W		KDBJ52F80W
FLEXIBLE DUCT (WITH SHUTTER)		KFDJ52F56		KFDJ52F80

3D037081A



FXKQ-MA

Type			FXKQ-MA
Item			
Remote controller	Infrared	H/P	BRC4C61
	Wired		BRC1D52 / BRC1E52A/B
Adapter for wiring			KRP1B61
Wiring adapter for electrical appendices (1)			KRP2A61
Wiring adapter for electrical appendices (2)			KRP4AA51
Remote sensor			KRCS01-1B
Central remote control			DCS302C51
Electric box with earth terminal - 3 blocks			KJB311AA
Unified ON/OFF control			DCS301B51
Electric box with earth terminal - 2 blocks			KJB212AA
Noise filter (for electromagnetic interface use only)			KEK26-1A
Schedule timer			DST301B51
External control adapter for outdoor unit (must be installed on indoor unit)			DTA104A61

3D034600F

Notes:

(1): Up to 2 installation boxes can be installed for each indoor unit.

(2): Installation box (No. 7) is necessary for each adaptor.

5 Capacity tables

5 - 1 Cooling Capacity Tables

FXKQ-MA																
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
25	2.8	10.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.4	2.5	3.7	2.5
		12.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.4	2.5	3.6	2.5
		14.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.4	2.5	3.6	2.5
		16.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.4	2.5	3.5	2.4
		18.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.4	2.5	3.5	2.4
		20.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.4	2.5	3.4	2.4
		21.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.4	2.5	3.4	2.4
		23.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.4	2.3
		25.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.3	2.5	3.3	2.3
		27.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.2	2.4	3.3	2.3
		29.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.2	2.4	3.2	2.3
		31.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.1	2.4	3.2	2.3
		33.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.1	2.4	3.1	2.3
		35.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	3.0	2.5	3.0	2.4	3.1	2.3
		37.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	2.9	2.5	3.0	2.4	3.0	2.3
		39.0	1.9	1.9	2.3	2.2	2.6	2.3	2.8	2.4	2.9	2.5	2.9	2.3	3.0	2.2
32	3.6	10.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.7	2.9
		12.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.7	2.9
		14.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.6	2.9
		16.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.6	2.8
		18.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.5	2.8
		20.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.4	2.8
		21.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.3	2.9	4.4	2.7
		23.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.2	2.9	4.3	2.7
		25.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.2	2.8	4.3	2.7
		27.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.1	2.8	4.2	2.7
		29.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.1	2.8	4.2	2.6
		31.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	4.0	2.7	4.1	2.6
		33.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	3.9	2.7	4.0	2.6
		35.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.8	2.9	3.9	2.7	4.0	2.6
		37.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.7	2.8	3.8	2.7	3.9	2.6
		39.0	2.4	2.2	2.9	2.5	3.4	2.6	3.6	2.7	3.7	2.8	3.8	2.7	3.8	2.6
40	4.5	10.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.4	3.5	5.9	3.5
		12.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.4	3.5	5.8	3.5
		14.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.4	3.5	5.8	3.4
		16.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.4	3.5	5.7	3.4
		18.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.4	3.5	5.6	3.3
		20.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.4	3.5	5.5	3.3
		21.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.4	3.5	5.5	3.3
		23.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.3	3.4	5.4	3.2
		25.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.2	3.4	5.3	3.2
		27.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.2	3.3	5.3	3.2
		29.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.1	3.3	5.2	3.1
		31.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	5.0	3.2	5.1	3.1
		33.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.8	3.3	4.9	3.2	5.0	3.1
		35.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.7	3.3	4.9	3.2	5.0	3.0
		37.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.7	3.3	4.8	3.1	4.9	3.0
		39.0	3.0	2.6	3.6	2.8	4.2	3.2	4.5	3.2	4.6	3.2	4.7	3.1	4.8	3.0
63	7.1	10.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	8.5	5.4	9.3	5.6
		12.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	8.5	5.4	9.2	5.5
		14.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	8.5	5.4	9.1	5.4
		16.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	8.5	5.4	9.0	5.3
		18.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	8.5	5.4	8.8	5.3
		20.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	8.5	5.4	8.7	5.2
		21.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	8.5	5.4	8.7	5.2
		23.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	8.4	5.3	8.5	5.1
		25.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	8.3	5.3	8.4	5.0
		27.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	8.1	5.2	8.3	5.0
		29.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	8.0	5.1	8.2	4.9
		31.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	7.9	5.1	8.1	4.9
		33.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.6	5.2	7.8	5.0	7.9	4.8
		35.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.5	5.2	7.7	5.0	7.8	4.8
		37.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.4	5.1	7.5	4.9	7.7	4.8
		39.0	4.8	4.0	5.7	4.5	6.6	5.0	7.1	5.1	7.2	5.0	7.4	4.9	7.6	4.7

CA03A095

5 Capacity tables

5 - 2 Heating Capacity Tables

FXKQ-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
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
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

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5 Capacity tables

5 - 3 Capacity Correction Factor

FXKQ-MA

		Capacity correction factor Te = 9°C						
	Indoor air temperature	14.0 °CWB	16.0 °CWB	18.0 °CWB	19.0 °CWB	20.0 °CWB	22.0 °CWB	24.0 °CWB
		20.0 °CDB	23.0 °CDB	26.0 °CDB	27.0 °CDB	28.0 °CDB	30.0 °CDB	32.0 °CDB
FXKQ25MA	TC	0.694	0.692	0.751	0.774	0.794	0.822	0.851
	SHF	1.118	1.176	1.119	1.095	1.076	1.055	1.041
FXKQ32MA	TC	0.694	0.692	0.751	0.774	0.794	0.821	0.852
	SHF	1.118	1.176	1.119	1.095	1.076	1.054	1.041
FXKQ40MA	TC	0.696	0.691	0.751	0.774	0.794	0.827	0.852
	SHF	1.107	1.176	1.118	1.095	1.076	1.052	1.037
FXKQ63MA	TC	0.690	0.693	0.753	0.776	0.795	0.822	0.853
	SHF	1.126	1.174	1.117	1.094	1.075	1.066	1.052

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NOTES - ANMERKUNGEN - Σημειώσεις - NOTAS - REMARQUES - NOTE - OPMERKINGEN - Примечания - NOTLAR

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- Capacity : Total capacity for High sensible mode = Total capacity for normal capacity table X TC ratio.

Leistung: Gesamtleistung für hochfühlbaren Leistungsmodus = Gesamtleistung für normale Leistungstabelle x GL-Verhältnis.

Απόδοση: Συνολική απόδοση για τη λειτουργία υψηλής ευαισθησίας = Συνολική απόδοση για τον πίνακα κανονικών αποδόσεων X αναλογία TC

Capacidad: Capacidad total para el modo de alta sensibilidad = Capacidad total para la tabla de capacidad normal X relación TC.

Capacité sensible (FCS) (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.

Capacità: Capacità totale per modalità ad alta capacità sensibile = Capacità totale per tabella capacità normali X rapporto TC.

Capaciteit: totale capaciteit in modus grote ("High") gevoeligheid = totale capaciteit uit de tabel met normale capaciteiten x TC-ratio.

Производительность: Общая производительность для режима с высоким коэфф. ооутимого охлаждения = Общая производительность для нормального режима, таблица X коэфф. TC.

Kapasite: Yüksek algı modu için toplam kapasite = Normal kapasite tablosundaki toplam kapasite değeri x TC oranı.

- Sensible capacity (SHF): SHF for High sensible mode = SHF for normal capacity table X SHF ratio .

Fühlbare Leistung (SHF): SHF für hochfühlbaren Leistungsmodus = SHF für normale Leistungstabelle x SHF-Verhältnis.

Αισθητή απόδοση (SHF): SHF για λειτουργία υψηλής ευαισθησίας = SHF για πίνακα κανονικών αποδόσεων X αναλογία SHF .

Capacidad sensible (FCS): SHF para el modo de alta sensibilidad = SHF para la tabla de capacidad normal X relación SHF.

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Capacità sensibile (SHF): SHF per modalità ad alta capacità sensibile = SHF per tabella capacità normali X rapporto SHF.

Gevoeligheidscapaciteit (WGF (warmtegevoelsfactor)– in het Engels "SHF"): WGF voor de modus grote ("High") gevoeligheid = WGF uit de tabel met normale capaciteiten x WGF-ratio.

Ощутимая производительность (SHF): SHF для режима с высоким коэфф. ооутимого охлаждения = SHF для нормального режима, таблица X коэфф. SHF.

Algılanabilir kapasite (SHF): Yüksek algı modu için SHF = Normal kapasite tablosundaki SHF değeri x SHF oranı.

- In case of SHF is bigger than 1 , SHF is "1"
Für den Fall, dass SHF größer als 1 ist, wird SHF als "1" angenommen.
Σε περίπτωση που το SHF είναι μεγαλύτερο από 1, το SHF είναι "1"
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SHF değeri 1'den büyükse, SHF değeri "1" kabul edilmelidir

5 Capacity tables

5 - 3 Capacity Correction Factor

FXKQ-MA

		Capacity correction factor Te = 11°C						
	Indoor air temperature	14.0 °CWB	16.0 °CWB	18.0 °CWB	19.0 °CWB	20.0 °CWB	22.0 °CWB	24.0 °CWB
		20.0 °CDB	23.0 °CDB	26.0 °CDB	27.0 °CDB	28.0 °CDB	30.0 °CDB	32.0 °CDB
FXKQ25MA	TC	0.556	0.570	0.578	0.615	0.648	0.699	0.741
	SHF	1.118	1.210	1.274	1.214	1.170	1.113	1.085
FXKQ32MA	TC	0.555	0.570	0.578	0.616	0.648	0.699	0.741
	SHF	1.118	1.210	1.274	1.215	1.170	1.113	1.085
FXKQ40MA	TC	0.557	0.572	0.579	0.616	0.648	0.703	0.746
	SHF	1.107	1.198	1.273	1.214	1.169	1.111	1.078
FXKQ63MA	TC	0.553	0.567	0.581	0.618	0.651	0.700	0.742
	SHF	1.126	1.219	1.271	1.211	1.167	1.125	1.106

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Απόδοση: Συνολική απόδοση για τη λειτουργία υψηλής ευαισθησίας = Συνολική απόδοση για τον πίνακα κανονικών αποδόσεων X αναλογία TC
Capacidad: Capacidad total para el modo de alta sensibilidad = Capacidad total para la tabla de capacidad normal X relación TC.
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Capacità: Capacità totale per modalità ad alta capacità sensibile = Capacità totale per tabella capacità normali X rapporto TC.
Capaciteit: totale capaciteit in modus grote ("High") gevoeligheid = totale capaciteit uit de tabel met normale capaciteiten x TC-ratio.
Производительность: Общая производительность для режима с высоким коэфф. ошутимого охлаждения = Общая производительность для нормального режима, таблица X коэфф. TC.
Kapasite: Yüksek algı modu için toplam kapasite = Normal kapasite tablosundaki toplam kapasite değeri x TC oranı.
- Sensible capacity (SHF): SHF for High sensible mode = SHF for normal capacity table X SHF ratio.
Fühlbare Leistung (SHF): SHF für hochfühlbaren Leistungsmodus = SHF für normale Leistungstabelle x SHF-Verhältnis.
Αισθητή απόδοση (SHF): SHF για λειτουργία υψηλής ευαισθησίας = SHF για πίνακα κανονικών αποδόσεων X αναλογία SHF .

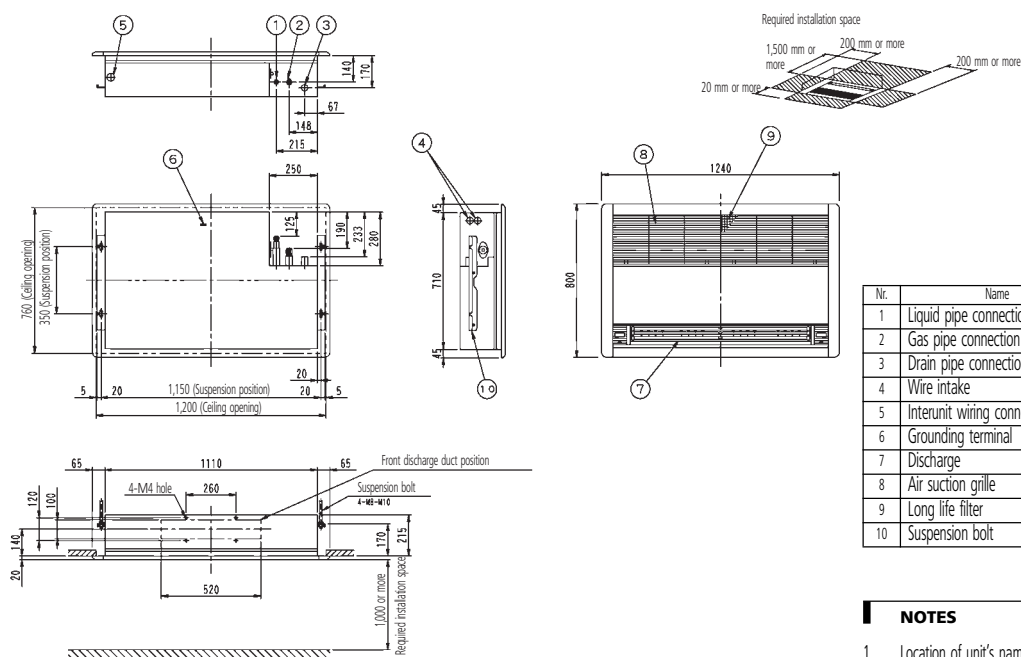
Capacidad sensible (FCS): SHF para el modo de alta sensibilidad = SHF para la tabla de capacidad normal X relación SHF.
Capacité sensible (FCS (Facteur de chaleur sensible) – en anglais : SHF) : FCS pour le mode sensibilité élevée (« High ») = FCS du tableau des capacités normales x rapport FCS.
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SHF değeri 1'den büyükse, SHF değeri "1" kabul edilmelidir

6 Dimensional drawings

6 - 1 Dimensional Drawings

FXKQ25,32,40MA



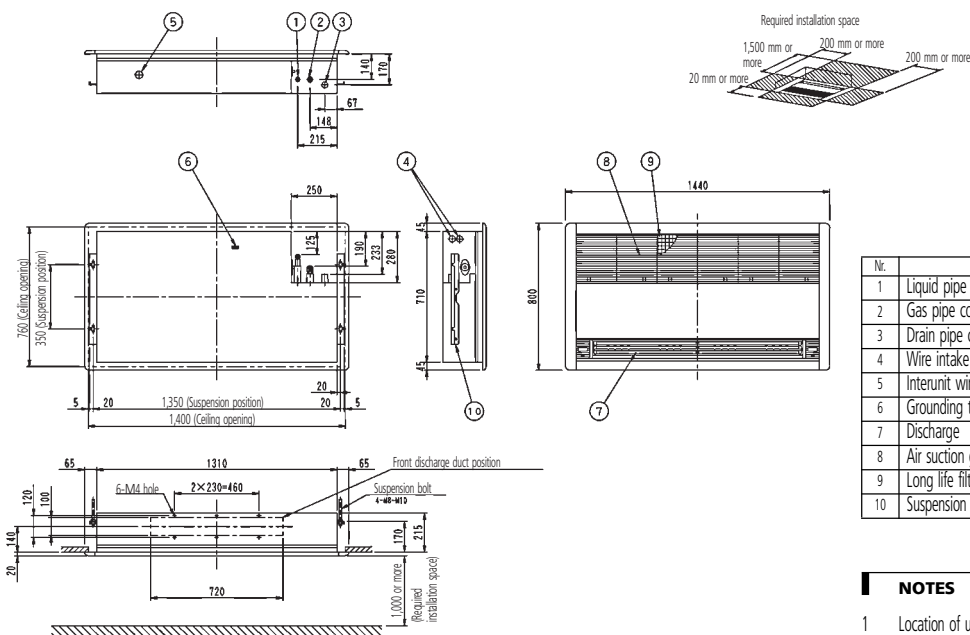
Nr.	Name	Description
1	Liquid pipe connection	ø 6.4 Flare connection
2	Gas pipe connection	ø 12.7 Flare connection
3	Drain pipe connection	VP25 (O.D. ø 32)
4	Wire intake	
5	Interunit wiring connection	
6	Grounding terminal	Inside switch box (M4)
7	Discharge	
8	Air suction grille	
9	Long life filter	
10	Suspension bolt	

NOTES

- Location of unit's name plate:
 - For main body: Bottom part of fan housing inside of air suction grille.
 - For decoration panel: Service lid face inside of air suction grille.
- When installing an optional accessory, refer to the installation drawings.

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FXKQ63MA



Nr.	Name	Description
1	Liquid pipe connection	ø 9.5 Flare connection
2	Gas pipe connection	ø 15.9 Flare connection
3	Drain pipe connection	VP25 (O.D. ø 32)
4	Wire intake	
5	Interunit wiring connection	
6	Grounding terminal	Inside switch box (M4)
7	Discharge	
8	Air suction grille	
9	Long life filter	
10	Suspension bolt	

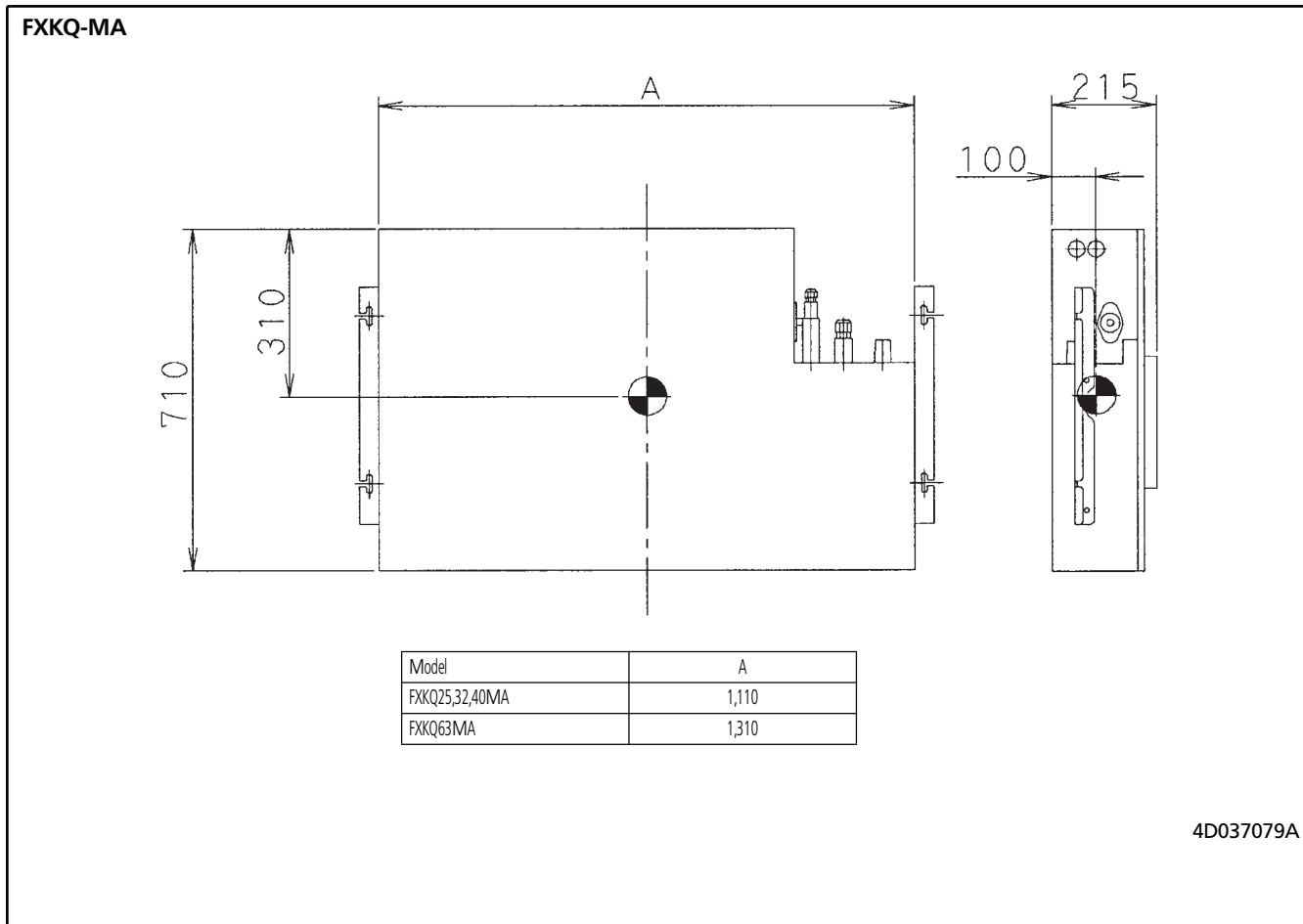
NOTES

- Location of unit's name plate:
 - For main body: Bottom part of fan housing inside of air suction grille.
 - For decoration panel: Service lid face inside of air suction grille.
- When installing an optional accessory, refer to the installation drawings.

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7 Centre of gravity

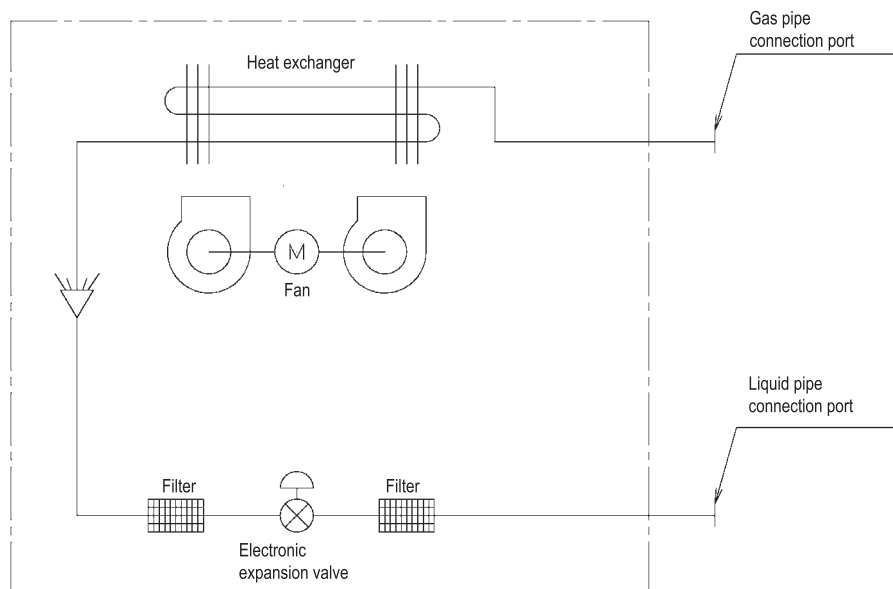
7 - 1 Centre of Gravity



8 Piping diagrams

8 - 1 Piping Diagrams

FXMQ-MA



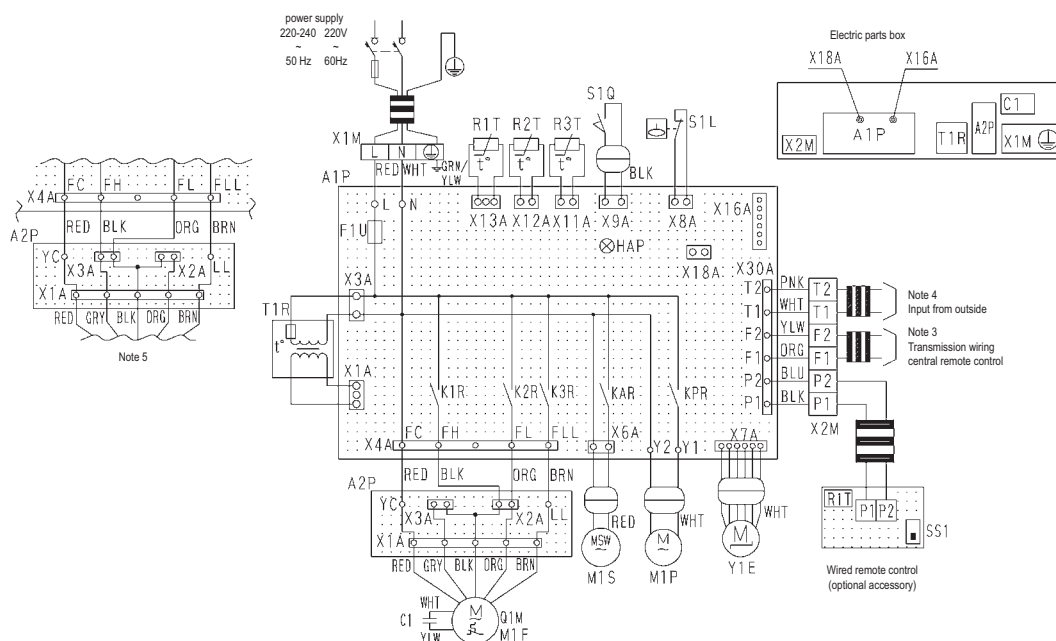
4D034245G

9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXKQ-MA

WIRING DIAGRAM



Indoor unit		R1T	Thermistor (air)	Wired remote control	
A1P	Printed circuit board	R2T • R3T	Thermistor (coil)	R1T	Thermistor (air)
A2P	Terminal board	S1L	Float switch	SS1	Selector switch (main/sub)
C1	Capacitor (M1F)	S1Q	Limit switch (swing flap)	Connector (adaptor for wiring)	
F1U	Fuse (B, 5A, 250V)	T1R	Transformer (220-240V/22V)	X16A	Connector (adapter for wiring)
HAP	Light emitting diode (service monitor green)	X1M	Terminal block (power)	X18A	Connector (wiring adapter for electrical appendices)
K1R-K3R	Magnetic relay (M1F)	X2M	Terminal block (control)		
KAR	Magnetic relay (M1S)	Y1E	Electronic expansion valve		
KPR	Magnetic relay (M1P)				
M1F	Motor (indoor fan)				
M1P	Motor (drain pump)				
M1S	Motor (swing flap)				
Q1M	Thermo switch (M1F embedded)				

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NOTES

- Terminal strip : connector -o- : terminal : protective earth (screw)
- Field wiring
- In case using central remote control, connect to the unit in accordance with the attached instruction 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.
- In case high E.S.P. operation, change over the wiring connecting from X2A to X3A.
- Symbols show as follows. (PNK: pink, WHT: white, YLW: yellow, ORG: Orange, BLU: blue, BLK: black, RED: red, BRN: brown, GRY: gray)
- Use copper conductors only.

10 Sound data

10 - 1 Sound Level Data

FXKQ-MA

Model	Sound pressure level - 220 V		Sound pressure level - 240 V		Sound power level
	H	L	H	L	
FXKQ25MA	38	33	40	35	*
FXKQ32MA	38	33	40	35	*
FXKQ40MA	40	34	42	36	*
FXKQ63MA	42	37	44	39	*

* data were not available at the time of publication

NOTES

- 1 Reference acoustic pressure 0dB=0.0002 bar
- 2 Operation noise differs with operation and ambient conditions
- 3 Measuring place: anechoic chamber

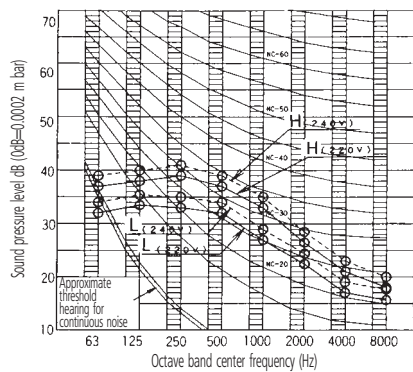
10 Sound data

10 - 2 Sound Pressure Spectrum

10

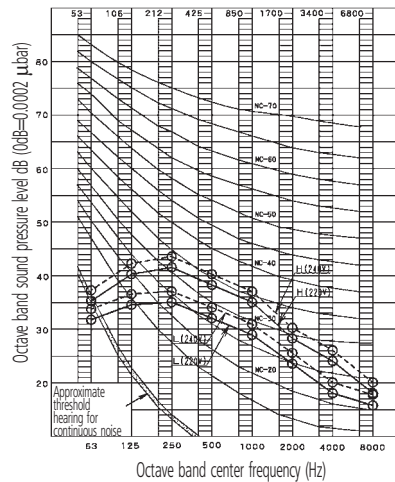
FXKQ25,32MA

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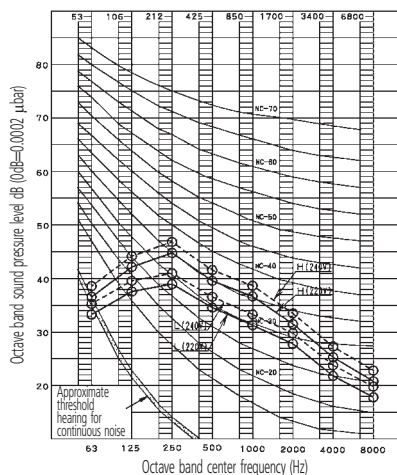
FXKQ40MA

4D037072



FXKQ63MA

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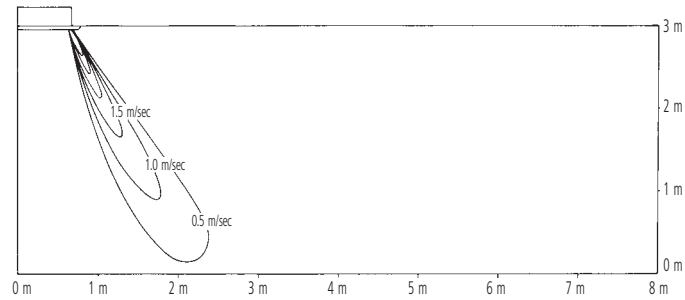
11 Air flow patterns

11 - 1 Air Flow Pattern - Heating

FXKQ63MA

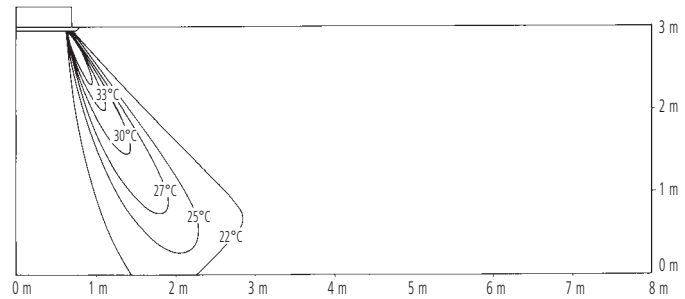
Heating air velocity distribution

Lower air blow



Heating temperature distribution

Lower air blow



NOTES

- 1 The corner type is applicable on a high ceiling. The standard set-up height is 3 m. Shown here is the measurement distribution at the ceiling height of 3 m.



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