

technical data

600x600 4-Way Blow Ceiling Mounted Cassette
FXZQ-M9V1B

air conditioning systems

R-410A



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air conditioning systems

R-410A

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FXZQ-M9V1B

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1 Specifications

1-1 TECHNICAL SPECIFICATIONS				FXZQ20M9V1B	FXZQ25M9V1B	FXZQ32M9V1B	FXZQ40M9V1B	FXZQ50M9V1B	
Capacity	Cooling		kW	2.2	2.8	3.6	4.5	5.6	
	Heating		kW	2.5	3.2	4.0	5.0	6.3	
Power Input (50Hz)	Cooling		kW	0.073	0.073	0.076	0.089	0.115	
	Heating		kW	0.064	0.064	0.068	0.080	0.107	
Casing	Material			Galvanised steel					
Dimensions	Unit	Height	mm	286	286	286	286	286	
		Width	mm	575	575	575	575	575	
		Depth	mm	575	575	575	575	575	
Weight	Unit		kg	18	18	18	18	18	
Heat Exchanger	Dimensions	Nr of Rows		2	2	2	2	2	
		Fin Pitch	mm	1.5	1.5	1.5	1.5	1.5	
		Face Area	m²	0.269	0.269	0.269	0.269	0.269	
		Nr of Stages		10	10	10	10	10	
Fan	Type			Turbo fan					
	Quantity			1	1	1	1	1	
Cooling	High	m³/min		9.0	9.0	9.5	11.0	14.0	
	Low	m³/min		7.0	7.0	7.5	8.0	10.0	
Fan	Motor	Quantity		1	1	1	1	1	
		Model			QTS32C15M				
		Output (high)	W	55	55	55	55	55	
		Drive			Direct drive				
Refrigerant	Name			R-410A					
Sound level	Cooling	Sound power (nominal)	dBA	47	47	49	53	58	
Cooling	Sound Pressure	High	dBA	30	30	32	36	41	
		Low	dBA	25	25	26	28	33	
Piping connections	Liquid (OD)	Type		Flare connection					
		Diameter	mm	6.35	6.35	6.35	6.35	6.35	
	Gas	Type		Flare connection					
		Diameter	mm	12.7	12.7	12.7	12.7	12.7	
	Drain	Diameter	mm	26	26	26	26	26	
Heat Insulation			Foamed polystyrene/foamed polyethylene						
Decoration Panel	Model			BYFQ60B7W1					
	Colour			White (Ral 9010)					
	Dimensions	Height	mm	55	55	55	55	55	
		Width	mm	700	700	700	700	700	
		Depth	mm	700	700	700	700	700	
	Weight		kg	2.7	2.7	2.7	2.7	2.7	
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						
Standard Accessories			Installation and operation manual						
			Paper pattern for installation						
			Drain hose						
			Clamp metal						
			Washer fixing plate						
			Sealing pads						
			Clamps						
			Screws						
			Washer for hanger bracket						
			Insulation for fitting						
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						

1 Specifications

1-2 ELECTRICAL SPECIFICATIONS (50HZ)				FXZQ20M9V1B	FXZQ25M9V1B	FXZQ32M9V1B	FXZQ40M9V1B	FXZQ50M9V1B
Power Supply	Name			V1				
	Phase			1~				
	Frequency	Hz		50				
	Voltage	V		220-240				
Current	Minimum circuit amps (MCA)	A		0.8	0.8	0.8	0.8	0.9
	Maximum fuse amps (MFA)	A		15	15	15	15	15
	Full load amps (FLA)	A		0.6	0.6	0.6	0.6	0.7
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

2

		FXZQ20M9	FXZQ25M9	FXZQ32M9	FXZQ40M9	FXZQ50M9
PC BOARD FUSE		250V 5A				
FAN MOTOR THERMAL PROTECTOR	°C	OFF: 130 ^{±5} / ON: 80 ^{±20}				
3D006691K						

3 Options

	FXZQ20M9	FXZQ25M9	FXZQ32M9	FXZQ40M9	FXZQ50M9
DECORATION PANEL	BYFQ60B				
SEALING MEMBER OF AIR DISCHARGE OUTLET	KDBH44BA60				
PANEL SPACER	KDBQ44B60				
REPLACEMENT LONG LIFE FILTER	KAFQ441BA60				
FRESH AIR INTAKE KIT DIRECT INSTALLATION TYPE	KDDQ44XA60				
3TW26429-1C					

4 Control systems

Individual control systems

	FXZQ20M9	FXZQ25M9	FXZQ32M9	FXZQ40M9	FXZQ50M9
WIRED REMOTE CONTROL	BRC1D52				
INFRARED REMOTE CONTROL	Heat pump	BRC7E530			
	Cooling only	BRC7E531			

Centralised control systems

	FXZQ20M9	FXZQ25M9	FXZQ32M9	FXZQ40M9	FXZQ50M9
CENTRALISED REMOTE CONTROL	DCS302C51				
UNIFIED ON/OFF CONTROL	DCS301B51				
SCHEDULE TIMER	DST301B61				

Others

	FXZQ20M9	FXZQ25M9	FXZQ32M9	FXZQ40M9	FXZQ50M9
WIRING ADAPTER	KRP1B57 #				
WIRING ADAPTER FOR ELECTRICAL APPENDICES (1)	KRP2A52 #				
WIRING ADAPTER FOR ELECTRICAL APPENDICES (2)	KRP4A53 #				
REMOTE SENSOR	KRC501-1				
INSTALLATION BOX FOR ADAPTER PCB (2)	KRP1BA101				
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)	DTA104A52 #				

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5 Capacity tables

5 - 1 Cooling capacity tables

FXZQ-M9																
Unit size	Nominal Capacity	Outdoor °CDB	Indoor air temp.B													
			14.0WB		16.0WB		18.0WB		19.0WB		20.0 WB		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	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.6	2.9	1.7
		12.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.6	2.9	1.6
		14.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.6	1.6	2.8	1.6
		16.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	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	1.6	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	1.6	2.6	1.8	2.7	1.7
		21.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	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	1.6	2.6	1.7	2.6	1.6
		25.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	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	1.6	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	1.6	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	1.6	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	1.6	2.4	1.6	2.5	1.5
		35.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.4	1.6	2.4	1.5
		37.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.3	1.6	2.4	1.5
		39.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.2	1.6	2.3	1.6	2.3	1.5
25	2.8	10.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.7	2.1
		12.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.6	2.1
		14.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.6	2.1
		16.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.5	2.0
		18.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.5	2.0
		20.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.4	2.0
		21.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.4	2.1	3.4	2.0
		23.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.3	2.1	3.4	1.9
		25.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.3	2.0	3.3	1.9
		27.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.2	2.0	3.3	1.9
		29.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.2	2.0	3.2	1.9
		31.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.1	2.0	3.2	1.9
		33.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.1	2.0	3.1	1.8
		35.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.0	1.9	3.1	1.8
		37.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	2.9	2.0	3.0	1.9	3.0	1.8
		39.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	2.9	2.0	2.9	1.9	3.0	1.8
32	3.6	10.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.7	2.6
		12.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.7	2.5
		14.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.6	2.5
		16.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.6	2.5
		18.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.5	2.5
		20.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.4	2.4
		21.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.3	2.5	4.4	2.4
		23.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.2	2.5	4.3	2.4
		25.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.2	2.5	4.3	2.4
		27.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.1	2.4	4.2	2.3
		29.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.1	2.4	4.2	2.3
		31.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	4.0	2.4	4.1	2.3
		33.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	3.9	2.4	4.0	2.3
		35.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	3.9	2.3	4.0	2.2
		37.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.7	2.4	3.8	2.3	3.9	2.2
		39.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.7	2.4	3.8	2.3	3.8	2.2
40	4.5	10.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.9	3.5
		12.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.8	3.4
		14.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.8	3.4
		16.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.7	3.4
		18.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.6	3.3
		20.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.5	3.3
		21.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.4	3.4	5.5	3.3
		23.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.3	3.3	5.4	3.2
		25.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.2	3.3	5.3	3.2
		27.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.2	3.3	5.3	3.2
		29.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.1	3.2	5.2	3.1
		31.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	5.0	3.2	5.1	3.1
		33.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.8	3.3	4.9	3.2	5.0	3.1
		35.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.7	3.3	4.9	3.1	5.0	3.0
		37.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.2	4.7	3.2	4.8	3.1	4.9	3.0
		39.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.2	4.6	3.2	4.7	3.1	4.8	3.0
50	5.6	10.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	7.4	4.4
		12.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	7.3	4.4
		14.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	7.2	4.3
		16.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	7.1	4.3
		18.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	7.0	4.2
		20.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	6.9	4.2
		21.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	4.4	6.8	4.2
		23.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.6	4.3	6.7	4.1
		25.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.5	4.3	6.6	4.1
		27.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.4	4.2	6.6	4.0
		29.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.3	4.2	6.5	4.0
		31.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.2	4.1	6.4	4.0
		33.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.1	4.1	6.3	3.9
		35.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	5.9	4.2	6.0	4.0	6.2	3.9
		37.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	5.8	4.1	5.9	4.0	6.1	3.8
		39.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	5.7	4.1	5.8	3.9	6.0	3.8

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5 Capacity tables

5 - 2 Heating capacity tables

FXZQ-M9

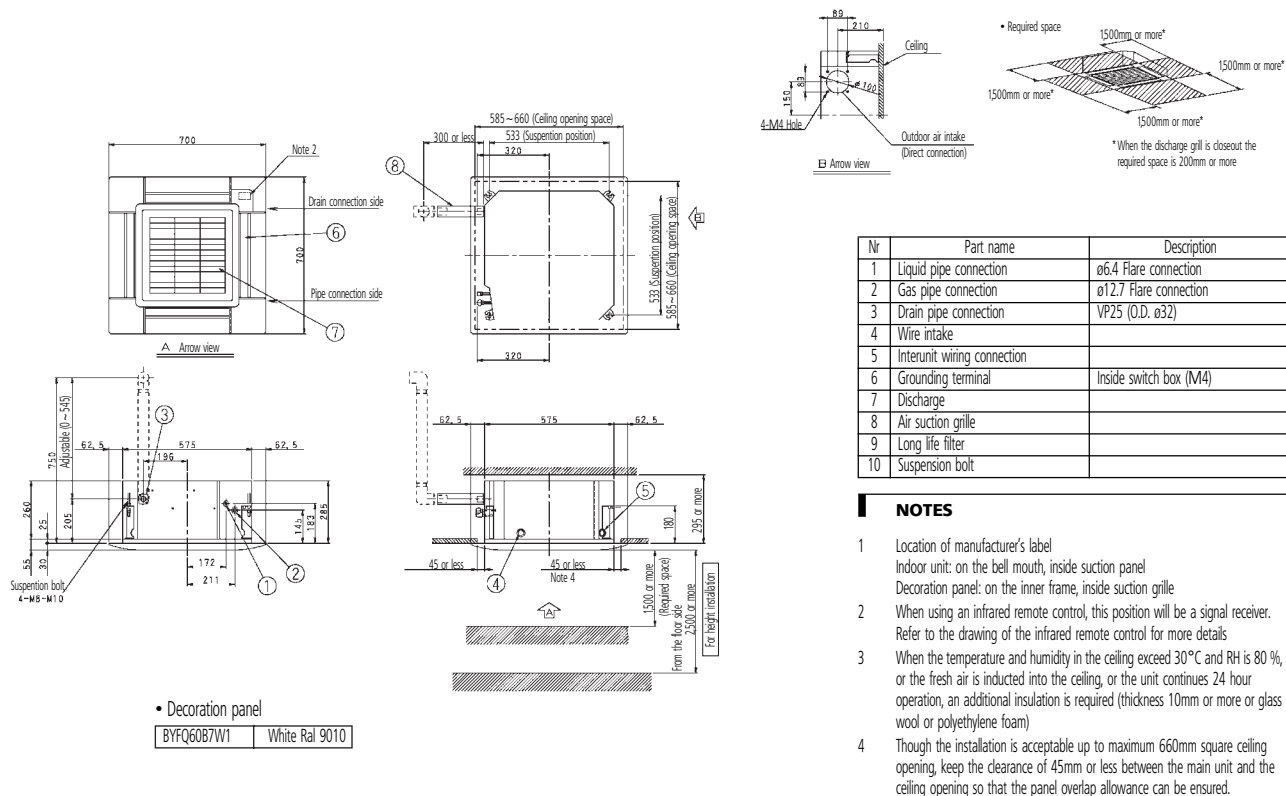
Unit size	Nominal Capacity	Outdoor air temp		Indoor air temp.: °CDB					
		(°CDB)	(°CWB)	16.0	18.0	20.0	21.0	22.0	24.0
				KW	KW	KW	KW	KW	KW
20	2.5	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5	1.5
		-18.8	-19.0	1.5	1.5	1.5	1.5	1.5	1.5
		-16.7	-17.0	1.6	1.6	1.6	1.6	1.6	1.6
		-14.7	-15.0	1.7	1.7	1.7	1.7	1.7	1.7
		-12.6	-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
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	6.6	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

3TW25512-2A

6 Dimensional drawing & centre of gravity

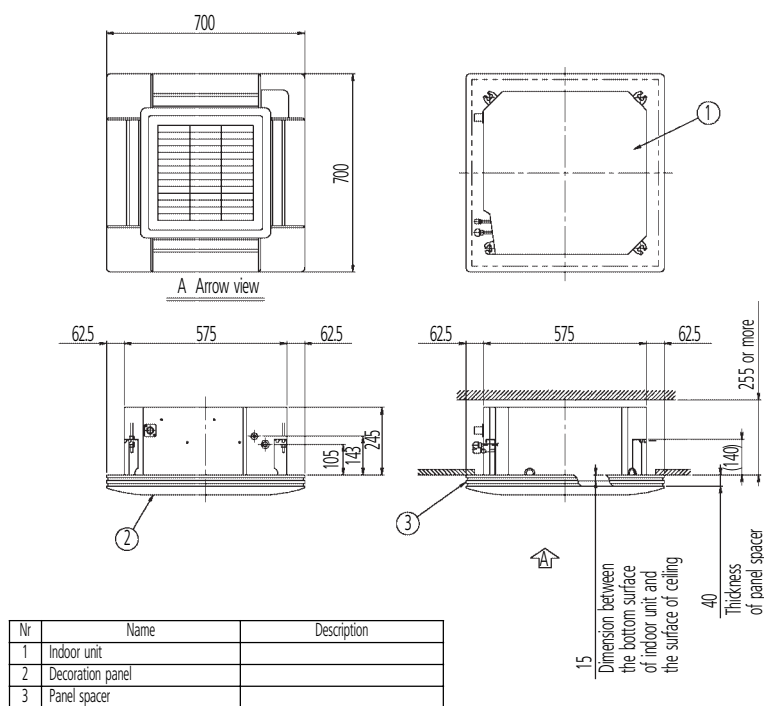
6 - 1 Dimensional drawing

FXZQ-M9



3D039005B

FXZQ-M9

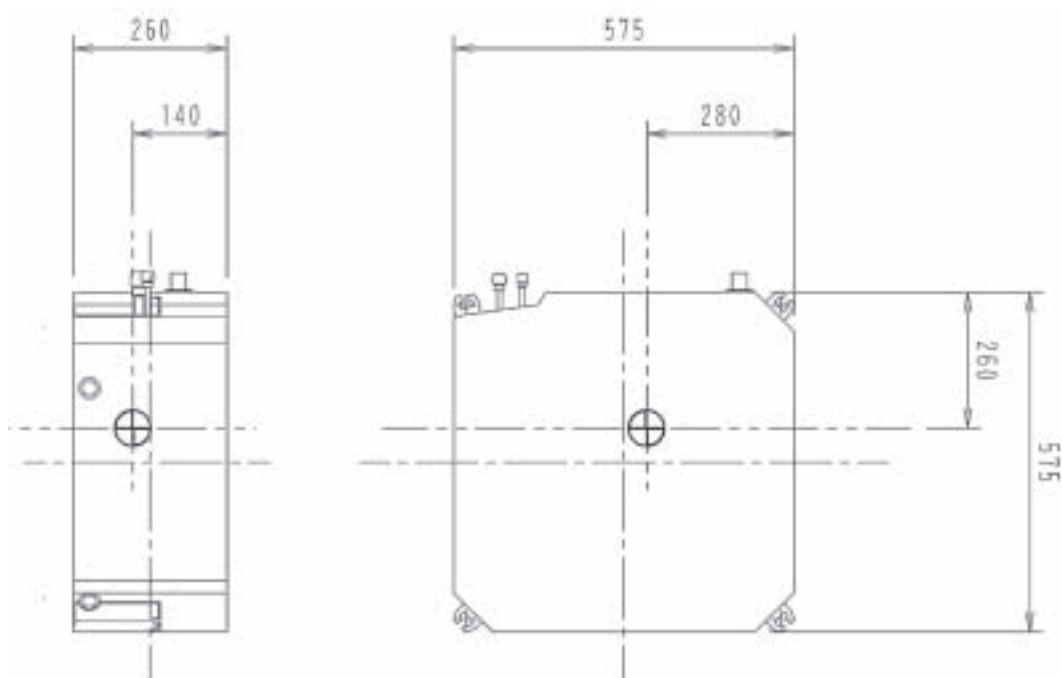


3D041038

6 Dimensional drawing & centre of gravity

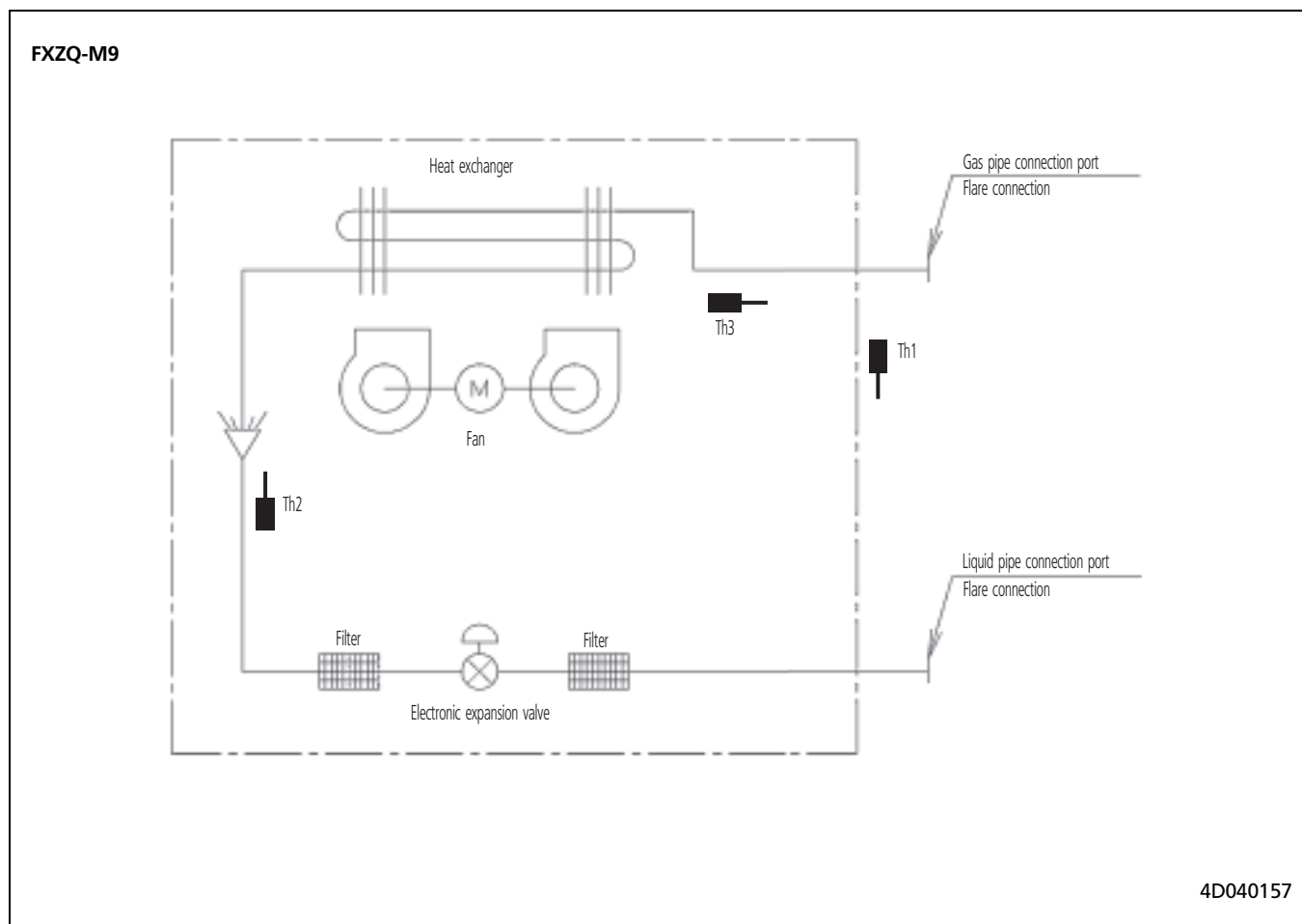
6 - 2 Centre of gravity

FXZQ-M9



4D040158

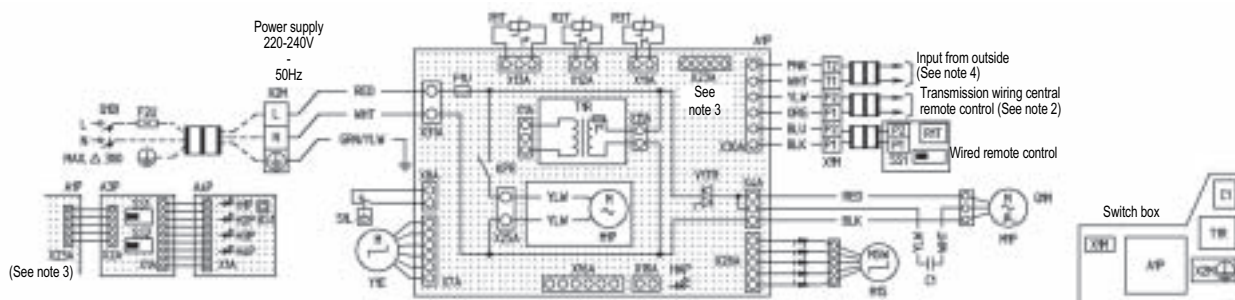
7 Piping diagram



8 Wiring diagram

8 - 1 Wiring diagram

FXZQ-M9



A1P	Printed circuit board	R2T	Thermistor (coil-liquid)	BS1	Push button (on/off)
C1	Capacitor (M1F)	R3T	Transformer (220-240V/22V)	H1P	Light emitting diode (on-red)
F1U	Fuse(B , 5a, 250V)	V1TR	Triac	H2P	Light emitting diode (timer-green)
F2U	Field fuse	X1M	Terminal strip	H2P	Light emitting diode (filter sign-red)
HAP	Light emitting diode (service monitor green)	X2M	Terminal strip	H3P	Light emitting diode (defrost-orange)
KPR	Magnetic relay (M1P)	Y3E	Electronic expansion valve	SS1	Selector switch (main/sub)
M1F	Motor (indoor fan)		Wired remote control	SS2	Selector switch (wireless address set)
M1P	Motor (drain pump)	R1T	Thermistor (air)		connector for optional parts
M1S	Motor (swing flap)	SS1	Selector switch (main/sub)	X16A	Connector (adapter for wire)
Q1DI	Field earth leak dedector (max. 300mA)		Infrared remote control (receiver/display unit)	X18A	Connector (on/off) (wiring adapter for electrical appendices)
Q1M	Thermal protector (M1F embedded)	A3P	Printed circuit board		
R1T	Thermistor (air)	A4P	Printed circuit board		

: Terminal
 : Connector
 : Wire clamp
 : Field wiring

Colors: RED Red PNK pink
 BLK Black ORG Orange
 WHT White GRN Green
 YLW Yellow BLU Blue

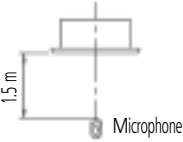
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NOTES

- In case of using a remote control, connect it to unit in accordance to the attached installation manual.
- X23A is connected when the wireless remote control kit is being used.
- 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. See technical data and catalogs. Etc. before connecting.

9 Sound data

9 - 1 Sound level data

FXZQ-M9				
Model	Sound pressure level			Sound power level
	H	L	Measuring location	
FXZQ20M9	30	25		47
FXZQ25M9	30	25		47
FXZQ32M9	32	26		49
FXZQ40M9	36	28		53
FXZQ50M9	41	33		58

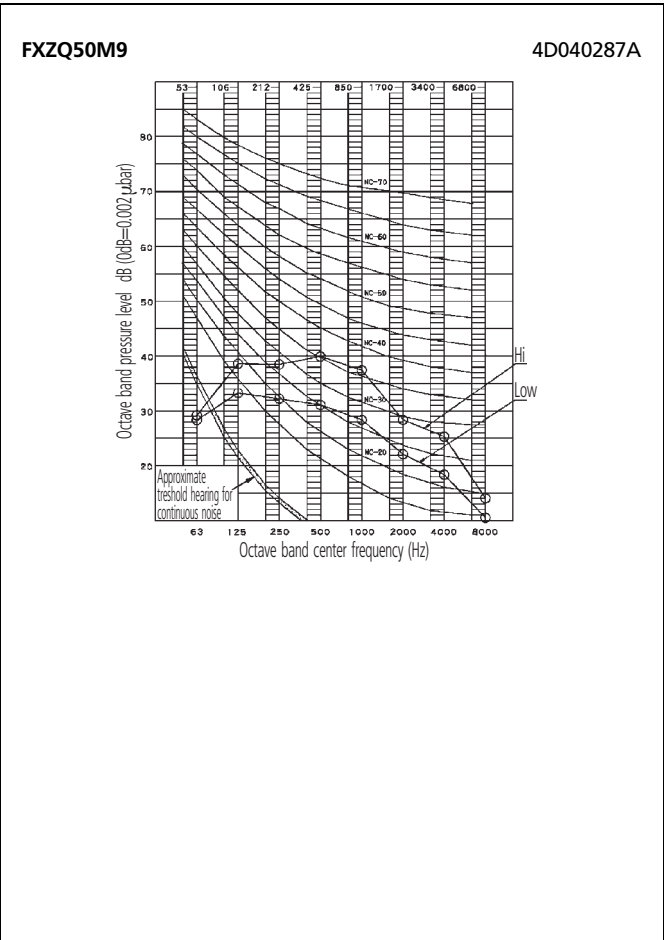
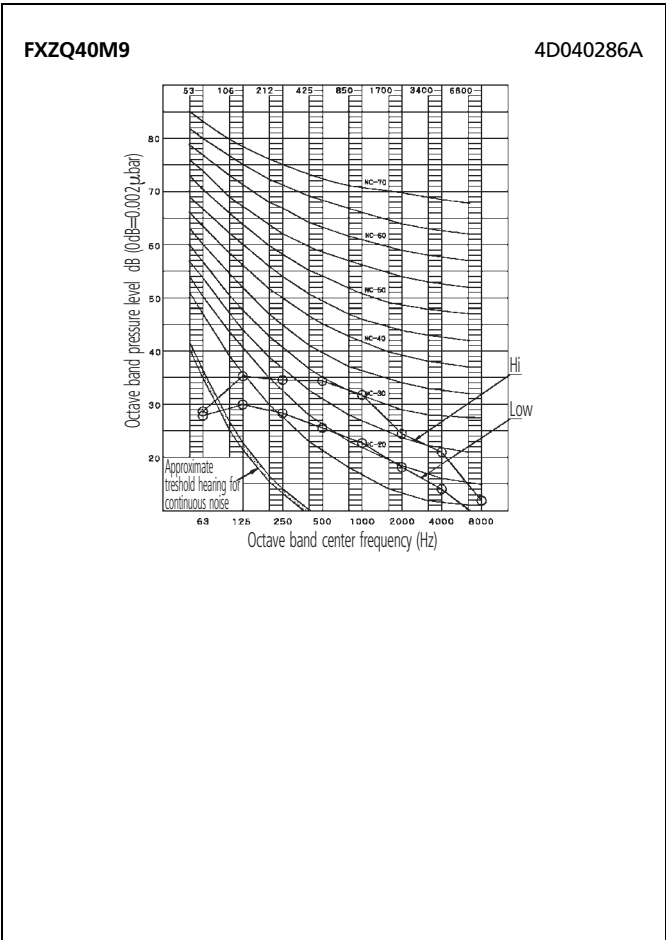
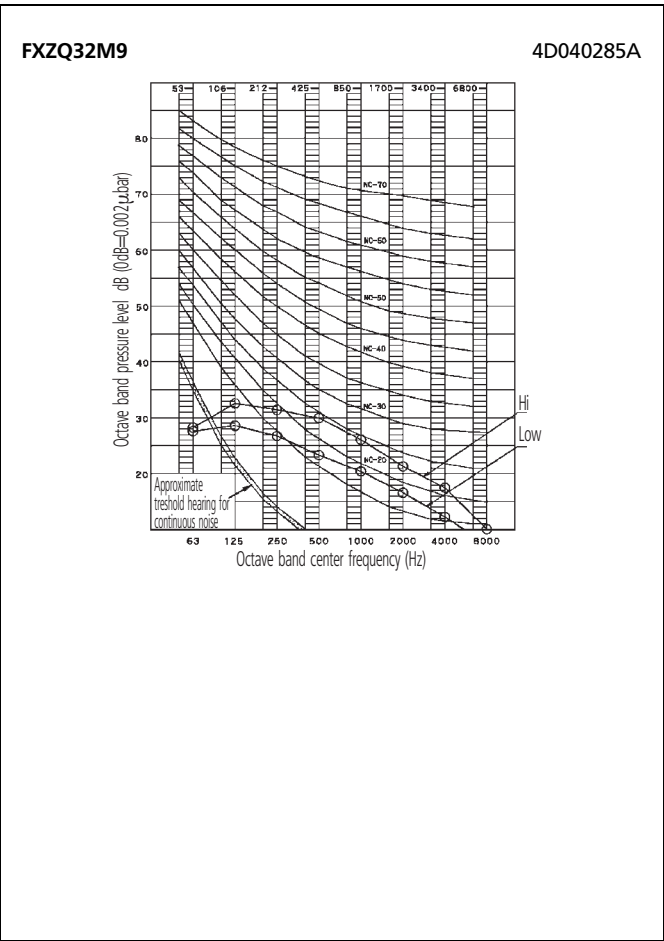
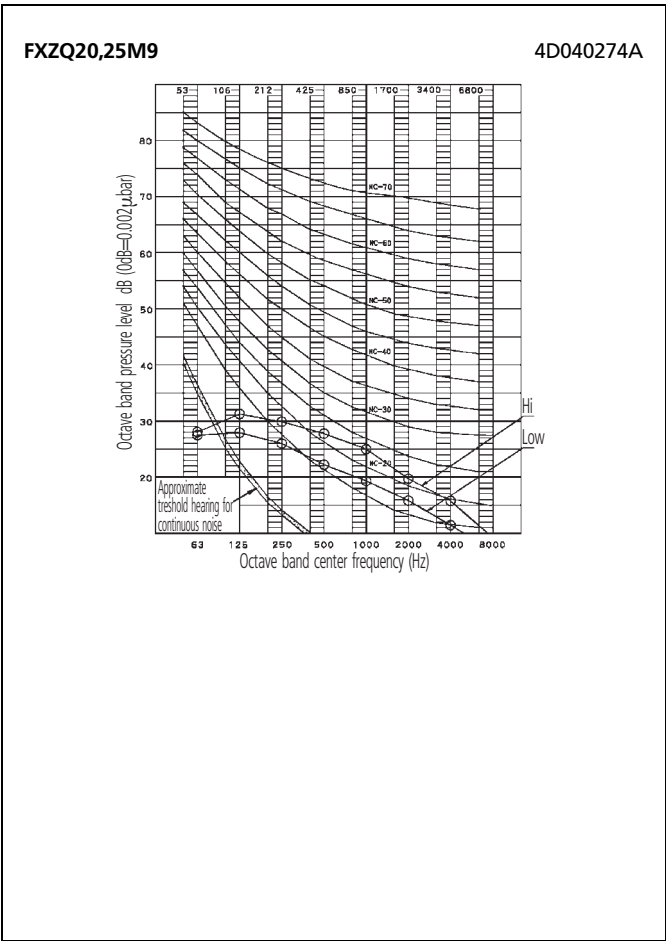
NOTES

1 Measuring place: anechoic chamber
2 Operation noise differs with operation and ambient conditions
3 Operating conditions: Power source: 230V, 50 Hz

- Cooling: Indoor air temperature: 27°CDB, 19°CWB
Outdoor air temperature: 35°CDB, 24°CWB
- Heating: Indoor air temperature: 20°CDB, 15°CWB
Outdoor air temperature: 7°CDB, 6°CWB

9 Sound data

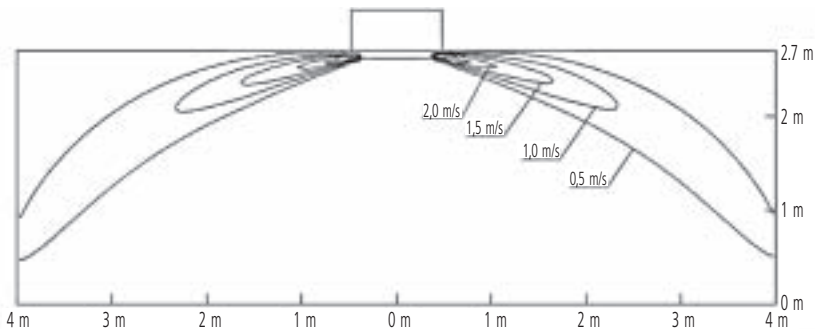
9 - 2 Sound pressure spectrum



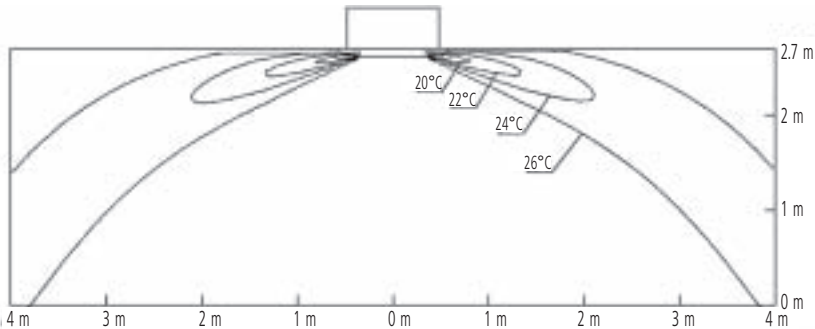
10 Air flow pattern

FXZQ20,25M9

Cooling air velocity distribution
4-way discharge, air flow direction: horizontal



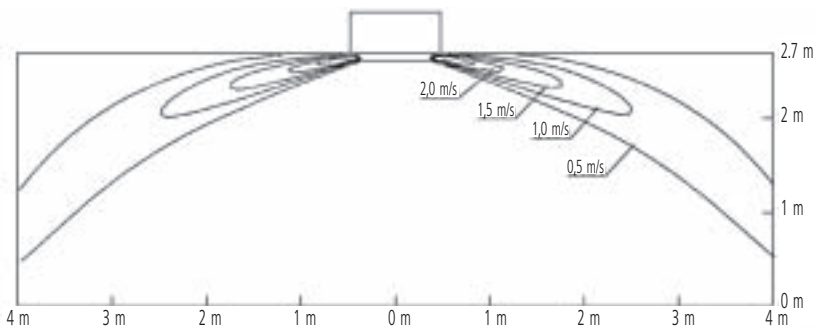
Cooling air temperature distribution
4-way discharge, air flow direction: horizontal



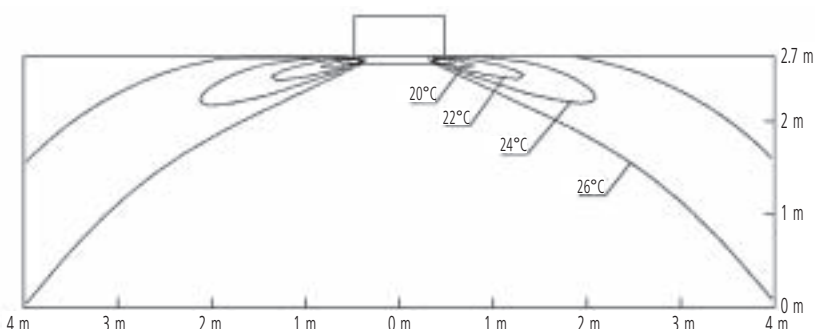
4D039738A

FXZQ32M9

Cooling air velocity distribution
4-way discharge, air flow direction: horizontal



Cooling air temperature distribution
4-way discharge, air flow direction: horizontal

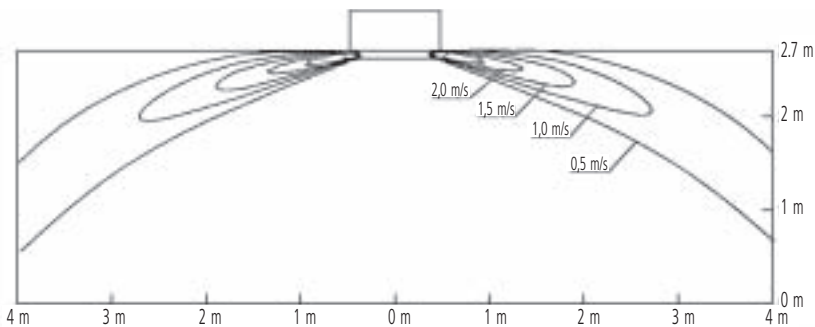


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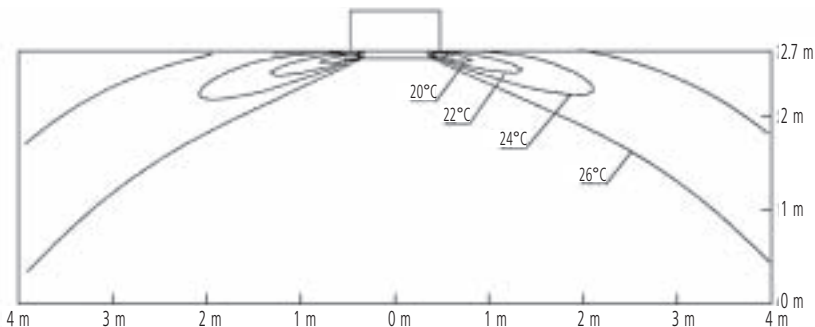
10 Air flow pattern

FXZQ40M9

Cooling air velocity distribution
4-way discharge, air flow direction: horizontal



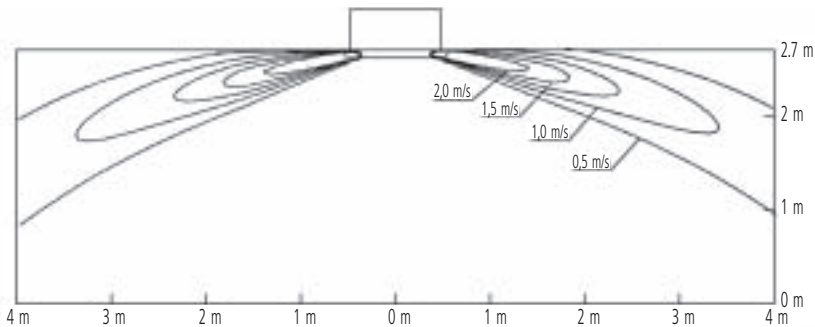
Cooling air temperature distribution
4-way discharge, air flow direction: horizontal



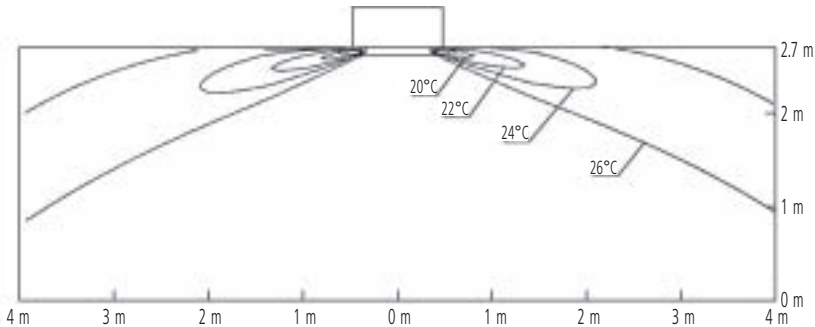
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FXZQ50M9

Cooling air velocity distribution
4-way discharge, air flow direction: horizontal



Cooling air temperature distribution
4-way discharge, air flow direction: horizontal



4D040190

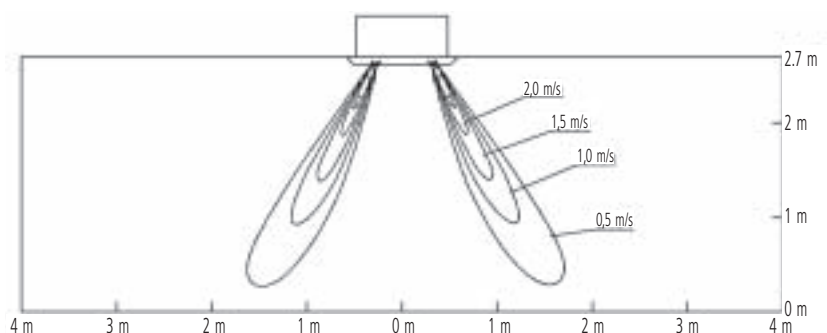
10 Air flow pattern

10

FXZQ20,25M9

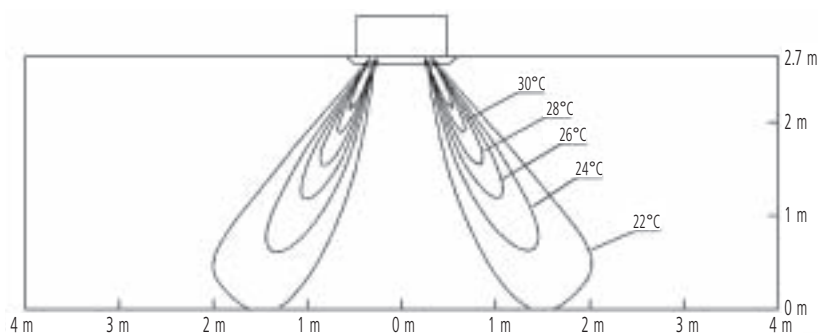
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down

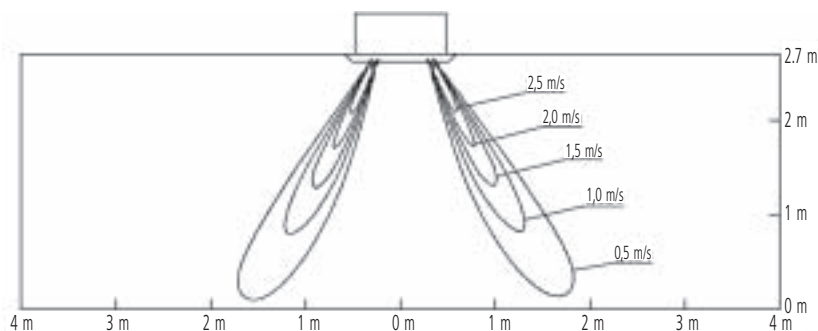


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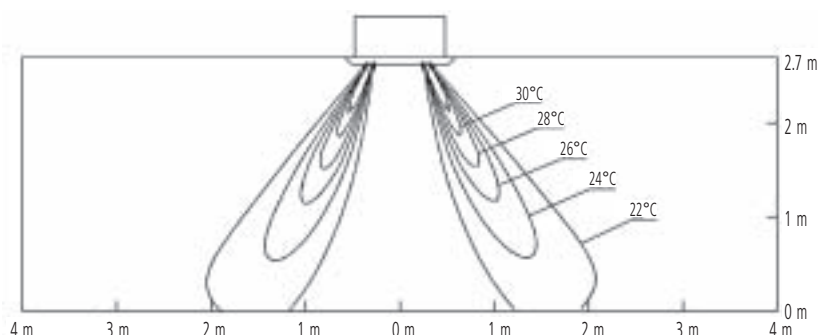
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down



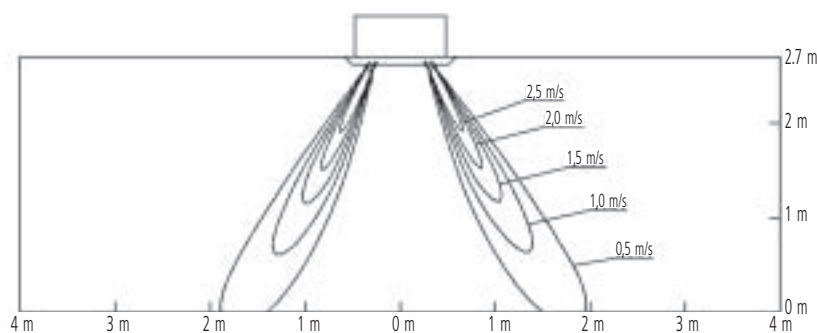
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10 Air flow pattern

FXZQ40M9

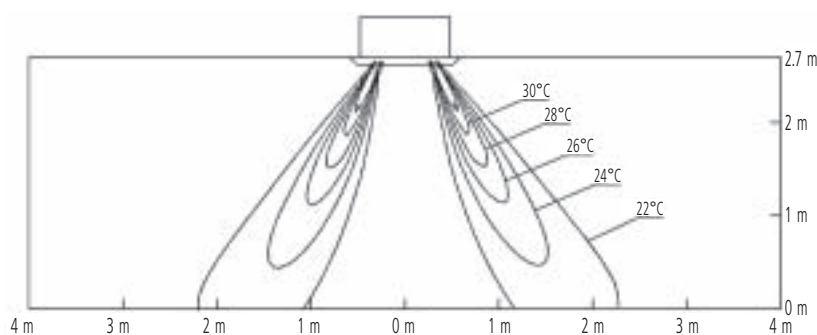
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down

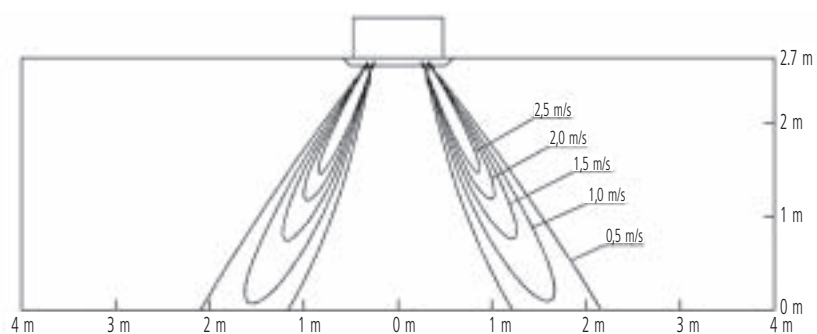


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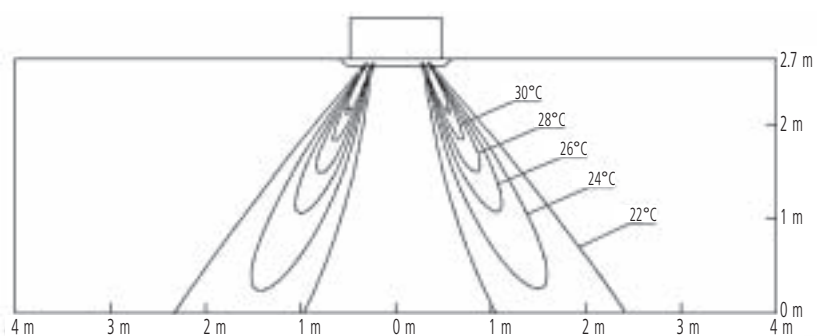
Heating air velocity distribution

4-way discharge, air flow direction: down



Heating air temperature distribution

4-way discharge, air flow direction: down



4D040193