

TABLE OF CONTENTS

FXUQ-MAV1

1	Specifications	1
	Technical Specifications	1
	Electrical Specifications	2
2	Safety device settings	3
3	Options	4
4	Control systems	5
5	Capacity tables	6
	Cooling capacity tables	6
	Heating capacity tables	7
6	Dimensional drawing & centre of gravity	8
	Dimensional drawing	8
7	Piping diagram	9
8	Wiring diagram	10
	Wiring diagram	10
9	Sound data	11
	Sound pressure spectrum	11
10	Air flow pattern	12

1 Specifications

1-1 TECHNICAL SPECIFICATIONS				FXUQ71MAV1		FXUQ100 MAV1		FXU Q125 MAV1	
Power input (Nominal)	Cooling		kW	0.180		0.289		0.289	
	Heating		kW	0.160		0.269		0.269	
Casing	Colour			White					
	Material			Resin					
Dimensions	Packing	Height	mm	230		295		295	
		Width	mm	960		960		960	
		Depth	mm	960		960		960	
	Unit	Height	mm	165		230		230	
		Width	mm	895		895		895	
		Depth	mm	895		895		895	
Weight	Unit		kg	25		31		31	
	Packed Unit		kg	35		42		42	
Heat Exchanger	Dimensions	Length	mm	2101		2101		2101	
		Nr of Rows		3		3		3	
		Fin Pitch	mm	1.50		1.50		1.50	
		Nr of Passes		8		8		12	
		Face Area	m²	0.265		0.353		0.353	
		Nr of Stages		6		8		8	
	Empty Tubeplate Hole				4				
	Fin	Fin type		Cross fin coil (Multi lower fins and N-hix tubes)					
Fan	Type			Turbo fan					
	Quantity			1		1		1	
Air Flow Rate	Cooling	High	m³/min	19.00		29.00		32.00	
		Low	m³/min	14.00		21.00		23.00	
	Heating	High	m³/min	19.00		29.00		32.00	
		Low	m³/min	14.00		21.00		23.00	
Fan	Motor	Steps		2		2		2	
		Output (high)	W	45		90		90	
Refrigerant	Name			R-410A					
Sound Level	Cooling	Sound power (nominal)	dBA	56.0		59.0		60.0	
Cooling	Sound Pressure	High	dBA	40.0		43.0		44.0	
		Low	dBA	35.0		38.0		39.0	
Heating	Sound Pressure	High	dBA	40.0		43.0		44.0	
		Low	dBA	35.0		38.0		39.0	
Piping connections	Liquid (OD)	Type		Flare connection					
		Diameter	mm	9.5		9.5		9.5	
	Gas	Type		Flare connection					
		Diameter	mm	15.9		15.9		15.9	
	Drain	Diameter	mm	I.D. 20/O.D. 26					
	Heat Insulation			Heat resistant foamed polyethylene, regular foamed polyethylene					
Air Filter				Resin net with mold resistance					
Safety devices				Fan motor thermal protector					
Standard Accessories	Standard Accessories			Installation and operation manual					
				Drain hose					
				Clamp metal					
				Insulation for fitting					
				Sealing Pads					
				Clamps					
				Washer					

1 Specifications

1-2 ELECTRICAL SPECIFICATIONS			FXUQ71MAV1	FXUQ100MAV1	FXUQ125MAV1
Power Supply	Name		V1		
	Phase		1	1	1
	Frequency	Hz	50	50	50
	Voltage	V	220-240		
Current	Full load amps (FLA)	A	0.60	1.00	1.00

2 Safety device settings

1
2

		FXUQ71MA	FXUQ100MA	FXUQ125MA
FAN MOTOR THERMAL PROTECTOR	°C	OFF: 130 ^{±5}		
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3 Options

	FXUQ71MA	FXUQ100MA	FXUQ125MA
SEALING MEMBER OF AIR DISCHARGE OUTLET	KDBHJ49F80	KDBHJ49F140	
DECORATION PANEL FOR AIR DISCHARGE	KDBTJ49F80	KDBTJ49F140	
VERTICAL FLAP KIT	KDGJ49F80	KDGJ49F140	
REPLACEMENT LONG-LIFE FILTER	KAFJ495F140		
L CONNECTION PIPING KIT	KHFP49M140		

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1
3

4 Control systems

Individual control systems

		FXUQ71MA	FXUQ100MA	FXUQ125MA
WIRED REMOTE CONTROL			BRC1D52	
INFRARED REMOTE CONTROL	Heat pump		BRC7C528W	
	Cooling only		BRC7C529W	

Centralised control systems

		FXUQ71MA	FXUQ100MA	FXUQ125MA
CENTRALISED REMOTE CONTROL			DCS302B51	
UNIFIED ON/OFF CONTROL			DCS301B51	
SCHEDULE TIMER			DST301B51	

Others

		FXUQ71MA	FXUQ100MA	FXUQ125MA
GROUP CONTROL ADAPTOR ※1			KRP4A53	
INTERFACE ADAPTER FOR SKY AIR SERIES			DTA102A52	
INSTALLATION BOX FOR ADAPTER PCB			KRP1B97	
REMOTE SENSOR			KRCS01-1	
CONNECTOR FOR FORCED ON, FORCED OFF			EKR0R0	

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NOTES

- 1 ※ Installation box for adapter PCB (KRP1B97) is necessary.

5 Capacity tables

5 - 1 Cooling capacity tables

FXUQ-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
71	8.0	10.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	9.6	6.2	10.5	6.3
		12.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	9.6	6.2	10.4	6.2
		14.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	9.6	6.2	10.3	6.2
		16.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	9.6	6.2	10.1	6.1
		18.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	9.6	6.2	10.0	6.0
		20.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	9.6	6.2	9.8	5.9
		21.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	9.6	6.2	9.8	5.9
		23.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	9.4	6.2	9.6	5.8
		25.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	9.3	6.1	9.5	5.7
		27.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	9.2	6.0	9.4	5.7
		29.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	9.0	5.9	9.2	5.7
		31.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	8.9	5.8	9.1	5.6
		33.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.5	6.0	8.7	5.8	8.9	5.6
		35.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.0	8.4	6.0	8.6	5.7	8.8	5.5
		37.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	5.9	8.3	6.0	8.5	5.8	8.7	5.4
		39.0	5.4	4.8	6.4	5.2	7.5	5.8	8.0	6.1	8.1	5.9	8.3	5.6	8.5	5.4
100	11.2	10.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	13.4	8.4	14.7	8.5
		12.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	13.4	8.4	14.5	8.4
		14.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	13.4	8.4	14.4	8.3
		16.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	13.4	8.4	14.2	8.2
		18.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	13.4	8.4	14.0	8.1
		20.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	13.4	8.4	13.8	8.0
		21.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	13.4	8.4	13.7	7.9
		23.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	13.2	8.2	13.5	7.8
		25.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	13.0	8.1	13.3	7.7
		27.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	12.8	8.0	13.1	7.7
		29.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	12.6	7.9	12.9	7.6
		31.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	12.4	7.9	12.7	7.6
		33.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.9	8.3	12.2	7.8	12.5	7.6
		35.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.8	8.3	12.1	7.7	12.3	7.4
		37.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.6	8.3	11.9	7.7	12.2	7.3
		39.0	7.6	6.6	9.0	7.1	10.5	8.0	11.2	8.2	11.4	8.2	11.7	7.6	12.0	7.3
125	14.0	10.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	16.8	10.7	18.4	10.8
		12.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	16.8	10.7	18.2	10.7
		14.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	16.8	10.7	18.0	10.5
		16.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	16.8	10.7	17.7	10.4
		18.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	16.8	10.7	17.5	10.2
		20.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	16.8	10.7	17.2	10.1
		21.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	16.8	10.7	17.1	10.0
		23.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	16.5	10.5	16.9	9.9
		25.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	16.3	10.4	16.6	9.9
		27.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	16.1	10.2	16.4	9.8
		29.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	15.8	10.1	16.2	9.7
		31.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	15.6	10.0	15.9	9.6
		33.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.9	10.6	15.3	9.9	15.7	9.6
		35.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.8	10.5	15.1	9.9	15.4	9.4
		37.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.5	10.5	14.9	9.8	15.2	9.4
		39.0	9.5	8.0	11.3	9.0	13.1	9.9	14.0	10.4	14.3	10.2	14.6	9.6	15.0	9.3

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5 Capacity tables

5 - 2 Heating capacity tables

FXUQ-MA

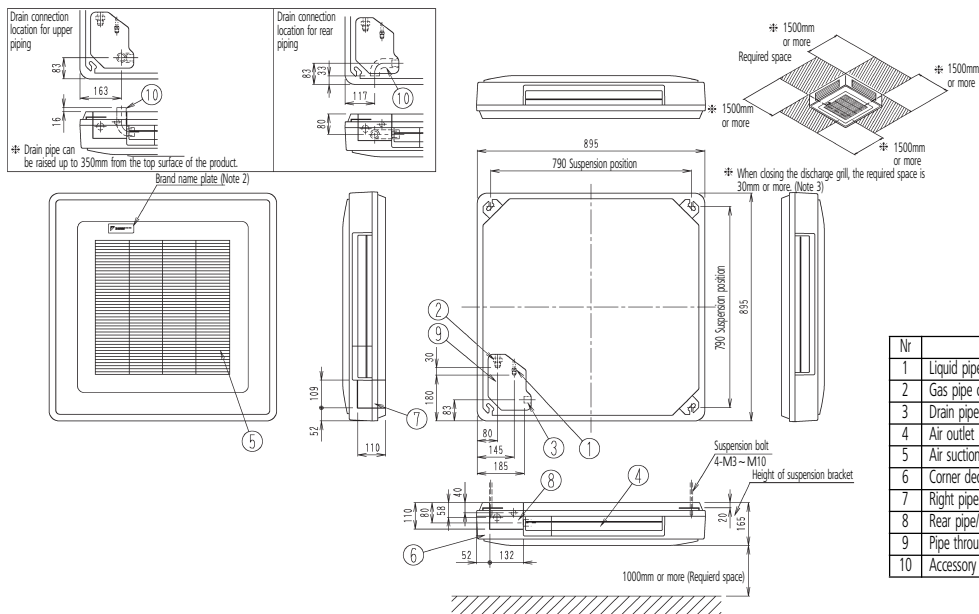
Unit Size	Nominal capacity	Outdoor air temperature		Indoor air temperature °CDB					
				16.0	18.0	20.0	21.0	22.0	24.0
		°CDB	°CWB	kW	kW	kW	kW	kW	kW
71	9.0	-19.8	-20.0	5.3	5.3	5.3	5.3	5.3	5.3
		-18.8	-19.0	5.5	5.5	5.4	5.4	5.4	5.4
		-16.7	-17.0	5.8	5.8	5.8	5.7	5.7	5.7
		-14.7	-15.0	6.1	6.1	6.1	6.1	6.1	6.1
		-12.6	-13.0	6.4	6.4	6.4	6.4	6.4	6.4
		-10.5	-11.0	6.7	6.7	6.7	6.7	6.7	6.7
		-9.5	-10.0	6.9	6.9	6.9	6.9	6.9	6.8
		-8.5	-9.1	7.1	7.0	7.0	7.0	7.0	7.0
		-7.0	-7.6	7.3	7.3	7.3	7.3	7.2	7.2
		-5.0	-5.6	7.6	7.6	7.6	7.6	7.5	7.5
		-3.0	-3.7	7.9	7.9	7.9	7.9	7.9	7.9
		0.0	-0.7	8.4	8.4	8.3	8.3	8.3	7.9
		3.0	2.2	8.9	8.8	8.8	8.7	8.4	7.9
		5.0	4.1	9.1	9.1	9.0	8.7	8.4	7.9
		7.0	6.0	9.5	9.4	9.0	8.7	8.4	7.9
		9.0	7.9	9.8	9.6	9.0	8.7	8.4	7.9
		11.0	9.8	10.1	9.6	9.0	8.7	8.4	7.9
		13.0	11.8	10.1	9.6	9.0	8.7	8.4	7.9
		15.0	13.7	10.1	9.6	9.0	8.7	8.4	7.9
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
125	14.0	-19.8	-20.0	8.3	8.2	8.2	8.2	8.2	8.2
		-18.8	-19.0	8.5	8.5	8.4	8.4	8.4	8.4
		-16.7	-17.0	9.0	9.0	9.0	8.9	8.9	8.9
		-14.7	-15.0	9.5	9.5	9.5	9.4	9.4	9.4
		-12.6	-13.0	10.0	10.0	10.0	10.0	9.9	9.9
		-10.5	-11.0	10.5	10.5	10.4	10.4	10.4	10.4
		-9.5	-10.0	10.8	10.7	10.7	10.7	10.7	10.6
		-8.5	-9.1	11.0	10.9	10.9	10.9	10.9	10.8
		-7.0	-7.6	11.3	11.3	11.3	11.3	11.2	11.2
		-5.0	-5.6	11.8	11.8	11.8	11.8	11.7	11.7
		-3.0	-3.7	12.3	12.3	12.3	12.2	12.2	12.2
		0.0	-0.7	13.0	13.0	13.0	13.0	13.0	12.2
		3.0	2.2	13.8	13.7	13.7	13.6	13.1	12.2
		5.0	4.1	14.2	14.2	14.0	13.6	13.1	12.2
		7.0	6.0	14.7	14.7	14.0	13.6	13.1	12.2
		9.0	7.9	15.2	14.9	14.0	13.6	13.1	12.2
		11.0	9.8	15.6	14.9	14.0	13.6	13.1	12.2
		13.0	11.8	15.8	14.9	14.0	13.6	13.1	12.2
		15.0	13.7	15.8	14.9	14.0	13.6	13.1	12.2

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6 Dimensional drawing & centre of gravity

6 - 1 Dimensional drawing

FXUQ71MA



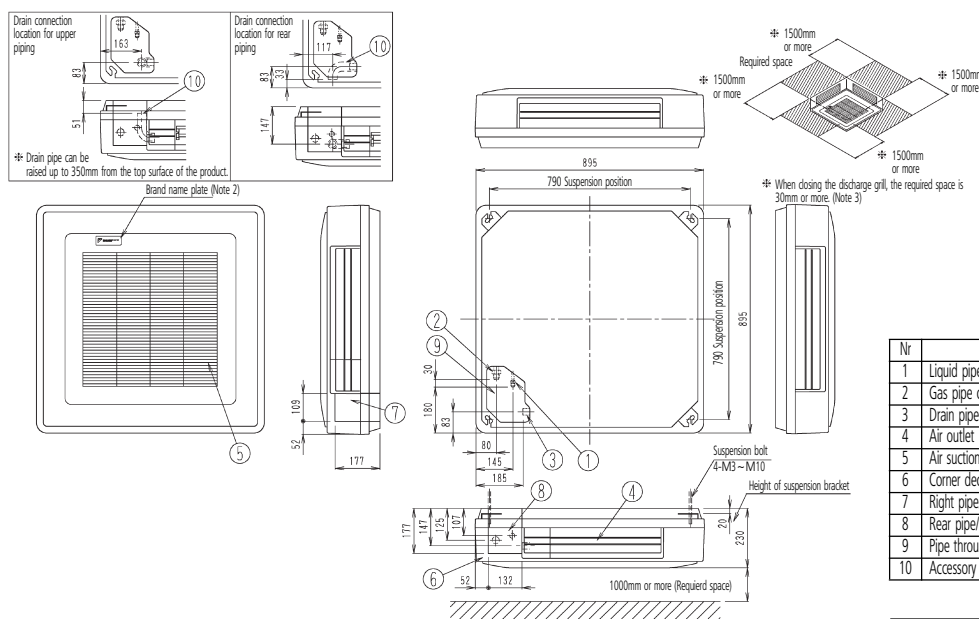
Nr	Part name	Description
1	Liquid pipe connection	ø9.5 Flare connection
2	Gas pipe connection	ø15.9 Flare connection
3	Drain pipe connection	VP20
4	Air outlet	
5	Air suction grille	
6	Corner decoration cover	
7	Right pipe/wiring connection	
8	Rear pipe/wiring connection	
9	Pipe through cover	
10	Accessory drain elbow	

NOTES

- Location for manufacture's label: on bell mouth.
- This is where the signal of infrared remote control is received. Refer to the drawing of infrared remote control in detail.
- When closing the discharge grill (2 or 3 way discharge), direction of pipe connection will be limited, please refer to Installation manual.

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FXUQ100-125MA



Nr	Part name	Description
1	Liquid pipe connection	ø9.5 Flare connection
2	Gas pipe connection	ø15.9 Flare connection
3	Drain pipe connection	VP20
4	Air outlet	
5	Air suction grille	
6	Corner decoration cover	
7	Right pipe/wiring connection	
8	Rear pipe/wiring connection	
9	Pipe through cover	
10	Accessory drain elbow	

NOTES

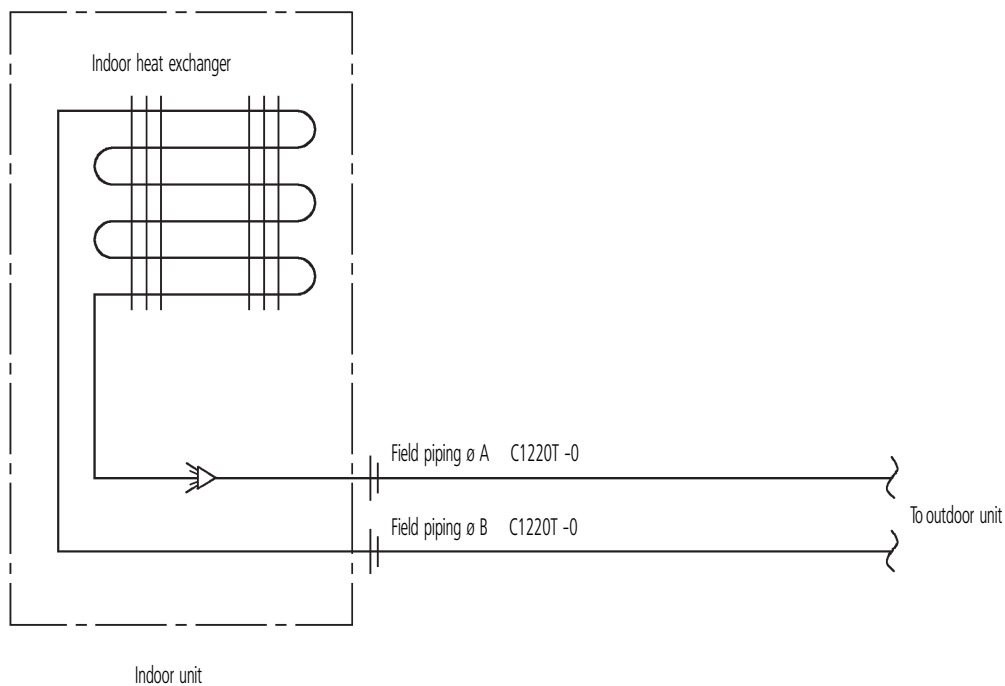
- Location for manufacture's label: on bell mouth.
- This is where the signal of infrared remote control is received. Refer to the drawing of infrared remote control in detail.
- When closing the discharge grill (2 or 3 way discharge), direction of pipe connection will be limited, please refer to Installation manual.

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7 Piping diagram

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FXUQ-MA



Piping connection diameters

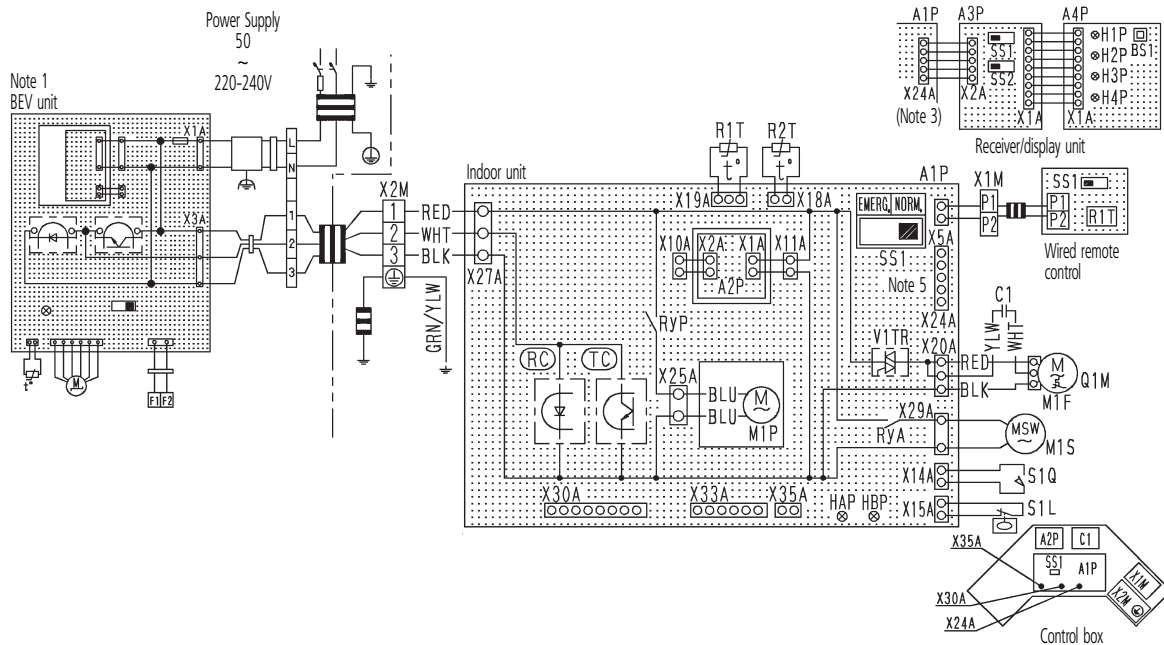
Models	A	B
FXUQ70,100,125MA	ø9.5	ø15.9

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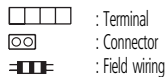
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FXUQ-MA



Indoor Unit		StL	Float switch	Receiver/Display unit (Attached to infrared remote control)	
A1P	Printed circuit board	SS1	Selector switch (Emergency)	A3P	Printed circuit board
A2P	Printed circuit board (Transformer 220 ~ 240V/16V)	V1TR	Phase controle circuit	A4P	Printed circuit board
C1R	Capacitor (M1F)	X1M	Terminal strip	B51	Push button (ON/OFF)
H4P	Light emitting diode (Service monitor-green)	X2M	Terminal strip	H1P	Light emitting diode (ON-Red)
M1S	Motor (Swing flap)	RC	Signal receiver	H2P	Light emitting diode (Timer-Green)
M1F	Motor (Indoor fan)	TC	Signal transmission circuit	H3P	Light emitting diode (Filter sign-Red)
M1P	Motor (Drain pump)			H4P	Light emitting diode (Defrost-Orange)
Q1M	Thermo switch (M1F embedded)			SS1	Selector switch (Main/Sub)
R1T	Thermistor (Air)			SS2	Selector switch (Wireless address set)
R2T	Thermistor (Coil)			Connector for optional parts	
RYA	Magnetic relay (M1A)	Wired remote control		X24A	Connector (Infrared remote control)
RYP	Magnetic relay (M1P)	R1T	Thermistor (Air)	X30A	Connector (Interface adapter for sky air series)
S1Q	Limit switch (Swing flap)	SS1	Selector Switch (Main/Sub)	X35A	Connector (Group control adapter)



COLORS : RED : Red BLK : Black
 WHT : White YLW : Yellow
 GRN : Green BLU : Blue

NOTES

- 1 The BEV unit shows an outline, please refer to a wiring diagram of BEV unit pasting in detail.
- 2 In case using central remote control, connect it to the unit in accordance with the attached installation manual.
- 3 X24A is connected when the infrared remote control kit is being used.
- 4 Remote control model varies according to the combination system, confirm engineering materials and catalogs, etc. before connecting.
- 5 Confirm the method of setting the selector switch (S51, S52) of wired remote control and infrared remote control by installation manual and engineering data, etc.

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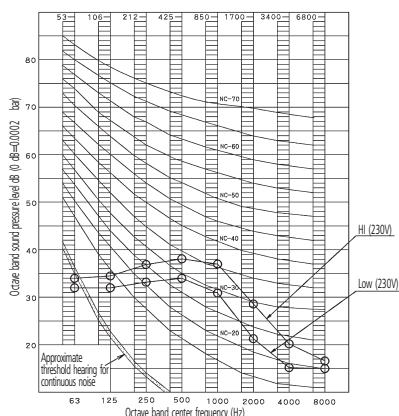
9 Sound data

9 - 1 Sound pressure spectrum

1
9

FXUQ71MA

4D014037D



NOTES

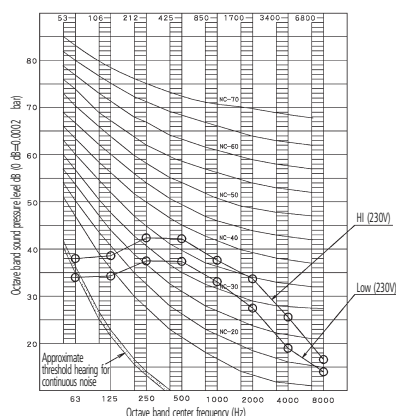
- Over all (dB):

Scale	230V	
A	Hi 40	Low 35
- Power level (dB):

230V	
Hi	Low
56	51
- Measuring place: Anechoic chamber
- Operating conditions:
 - Power source: 230V 50Hz
 - Cooling: Return air temperature: 27°C DB, 19°C WB; Outdoor temperature: 35°C DB, 24°C WB
 - Heating: Return air temperature: 20°C DB, 15°C WB; Outdoor temperature: 7°C DB, 6°C WB
- Directions discharge
- Location of microphone
- Operating noise differs with operation and ambient conditions.

FXUQ100MA

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NOTES

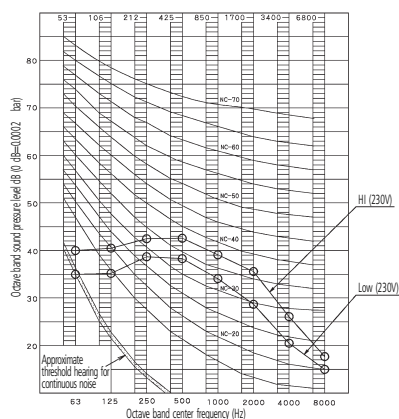
- Over all (dB):

Scale	50 Hz 240V	
A	Hi 43	Low 38
- Power level (dB):

230V	
Hi	Low
59	54
- Measuring place: Anechoic chamber
- Operating conditions:
 - Power source: 230V 50Hz
 - Cooling: Return air temperature: 27°C DB, 19°C WB; Outdoor temperature: 35°C DB, 24°C WB
 - Heating: Return air temperature: 20°C DB, 15°C WB; Outdoor temperature: 7°C DB, 6°C WB
- Directions discharge
- Location of microphone
- Operating noise differs with operation and ambient conditions.

FXUQ125MA

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NOTES

- Over all (dB):

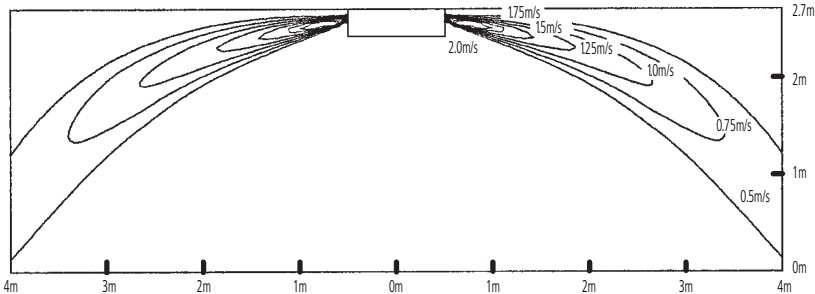
Scale	230V	
A	Hi 44	Low 39
- Power level (dB):

230V	
Hi	Low
60	55
- Measuring place: Anechoic chamber
- Operating conditions:
 - Power source: 230V 50Hz
 - Cooling: Return air temperature: 27°C DB, 19°C WB; Outdoor temperature: 35°C DB, 24°C WB
 - Heating: Return air temperature: 20°C DB, 15°C WB; Outdoor temperature: 7°C DB, 6°C WB
- Directions discharge
- Location of microphone
- Operating noise differs with operation and ambient conditions.

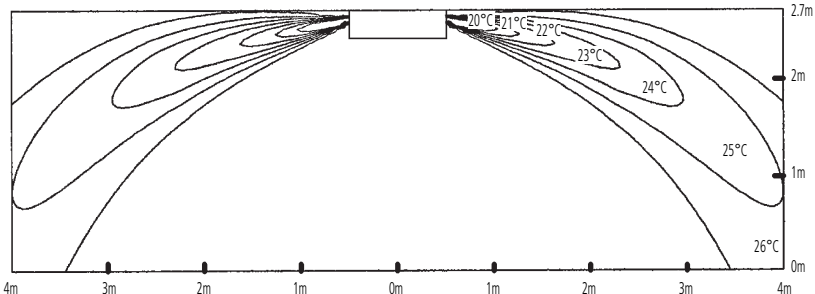
10 Air flow pattern

FXUQ71MA

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



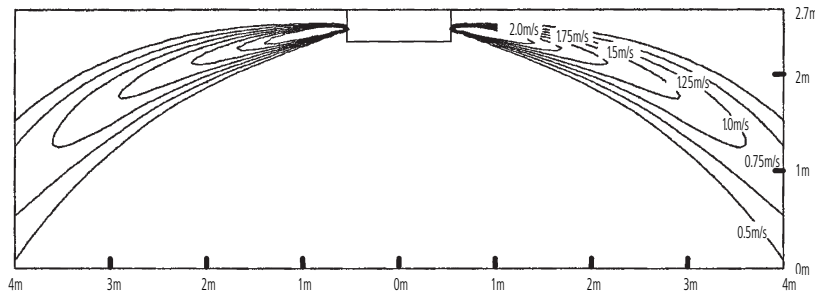
Cooling - air temperature distribution
4-way discharge, air flow direction: horizontal



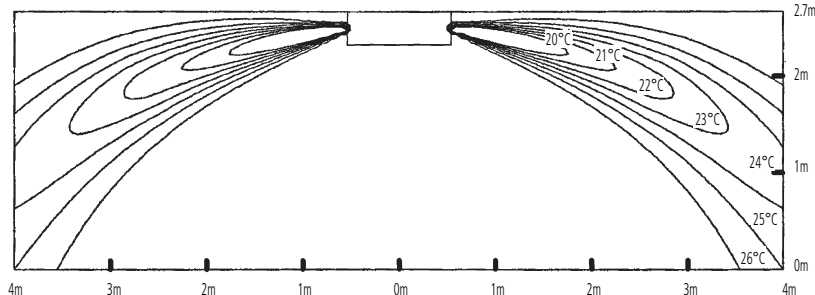
4D028396C

FXUQ100MA

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



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



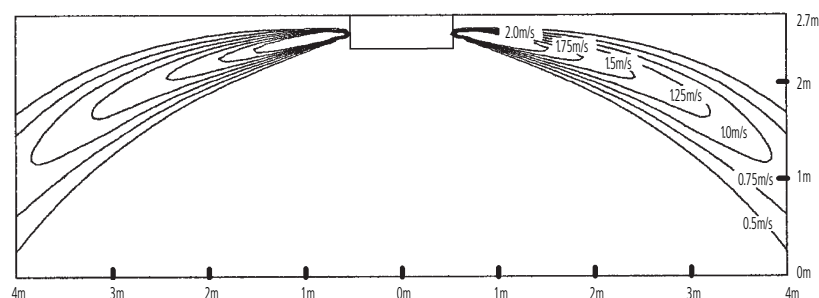
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10 Air flow pattern

FXUQ125MA

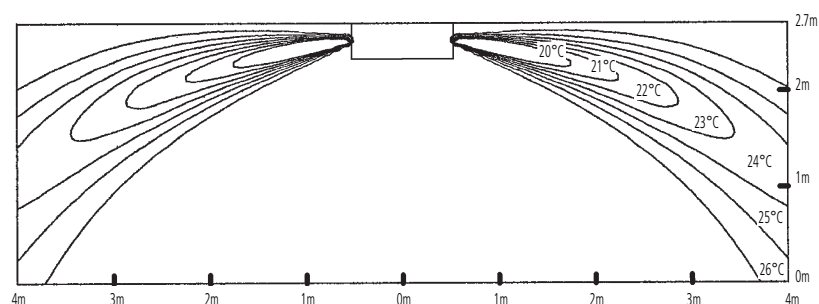
Cooling - air velocity distribution

4-way discharge, air flow direction: horizontal



Cooling - air temperature distribution

4-way discharge, air flow direction: horizontal

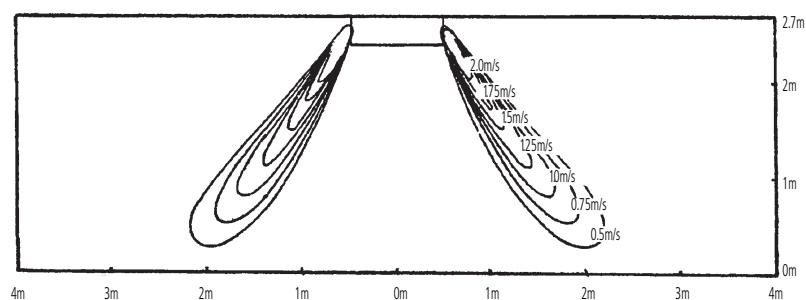


4D028398C

FXUQ71MA

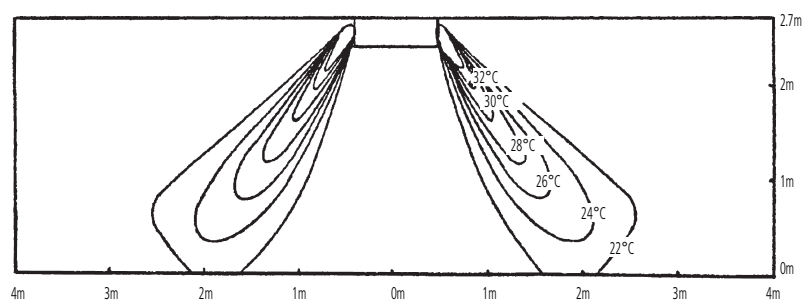
Heating - air velocity distribution

4-way discharge, air flow direction: down



Heating - air temperature distribution

4-way discharge, air flow direction: down



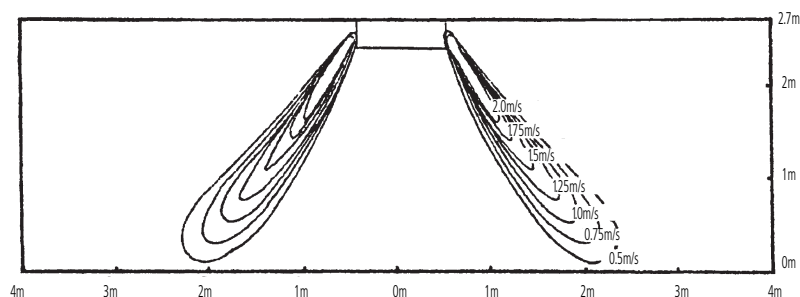
4D013863D

10 Air flow pattern

FXUQ100MA

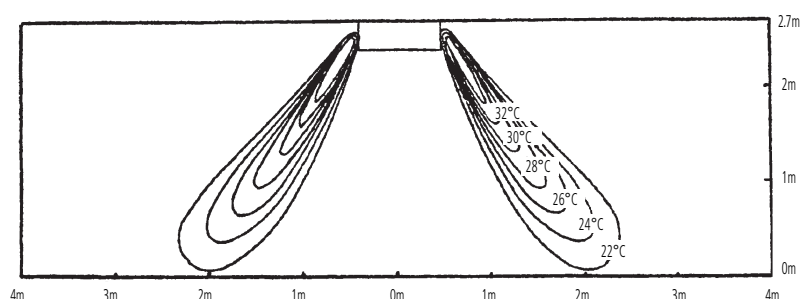
Heating - air velocity distribution

4-way discharge, air flow direction: down



Heating - air temperature distribution

4-way discharge, air flow direction: down

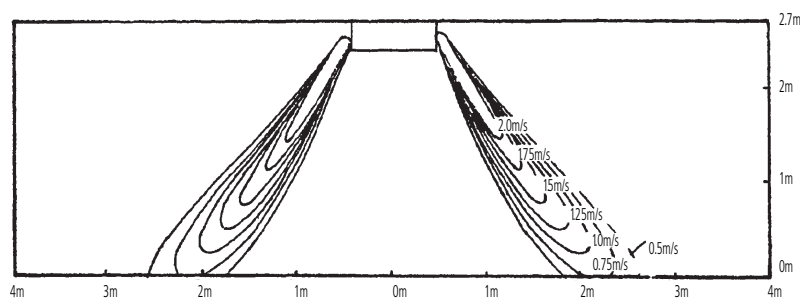


4D014054D

FXUQ125MA

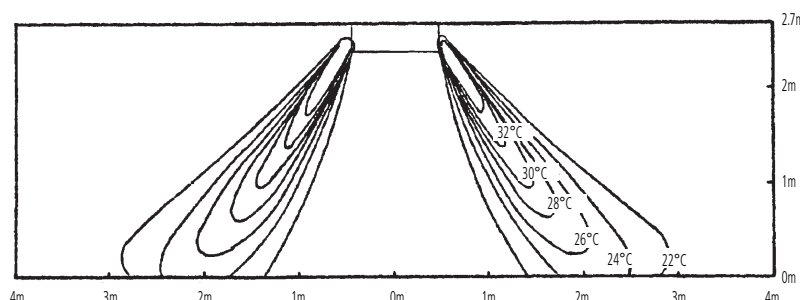
Heating - air velocity distribution

4-way discharge, air flow direction: down



Heating - air temperature distribution

4-way discharge, air flow direction: down



4D014055D

10 Air flow pattern

1

10

TABLE OF CONTENTS

BEVQ-MAVE

1	Specifications	1
	Technical Specifications	1
	Electrical Specifications	1
2	Dimensional drawing & centre of gravity	2
	Dimensional drawing	2
	Centre of gravity	3
3	Piping diagram	4
4	Wiring diagram	5
	Wiring diagram	5

1 Specifications

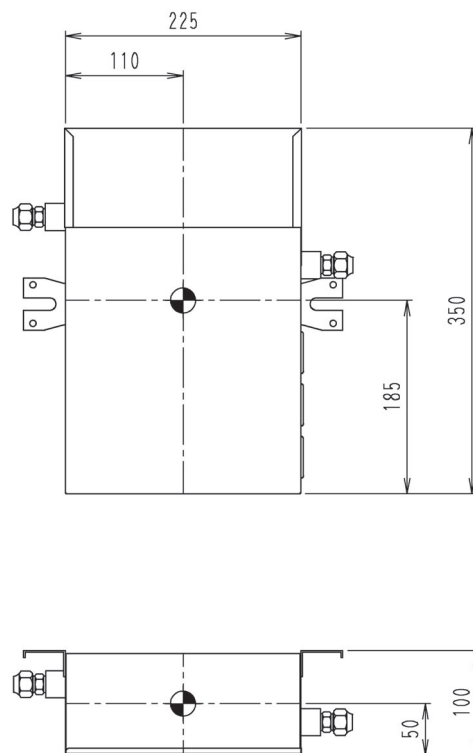
1-1 TECHNICAL SPECIFICATIONS				BEVQ71MAVE		BEVQ100MAVE		BEVQ125MAVE	
Power input (Nominal)	Cooling		kW	0.189		0.298		0.298	
	Heating		kW	0.169		0.278		0.278	
Casing	Material			Galvanised steel plate					
Dimensions	Packing	Height	mm	100		100		100	
		Width	mm	350		350		350	
		Depth	mm	225		225		225	
Sound absorbing thermal insulation material				Flame and heat resistant foamed polyetherene					
Weight	Unit		kg	3.0		3.0		3.5	
Indoor Units	Liquid (OD)	Type		Flare connection					
		Diameter	mm	9.5		9.5		9.5	
	Gas	Type		Flare connection					
		Diameter	mm	15.9		15.9		15.9	
Outdoor Unit	Liquid (OD)	Type		Flare connection					
		Diameter	mm	9.5		9.5		9.5	
	Suction gas (OD)	Type		Flare connection					
		Diameter	mm	15.9		15.9		15.9	
Standard Accessories	Item			Installation manual					
				Gas piping connections					
				Insulation for fitting					
				Sealing material					
				Clamps					

1-2 ELECTRICAL SPECIFICATIONS				BEVQ71MAVE	BEVQ100MAVE	BEVQ125MAVE
Power Supply	Name			VE		
	Phase			1~		
	Frequency		Hz	50/60		
	Voltage		V	220-240		
Voltage range	Minimum		V	-10%		
	Maximum		V	+10%		
Total circuit	Minimum circuit amps (MCA)		A	0.8	1.3	1.3
	Maximum fuse amps (MFA)		A	15	15	15
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		
				Select wire size based on MCA		
				Instead of a fuse, use a circuit breaker		
				MFA is smaller than or equal to 4 x FLA		
				Next lower standard fuse rating minimum 15A		

2 Dimensional drawing & centre of gravity

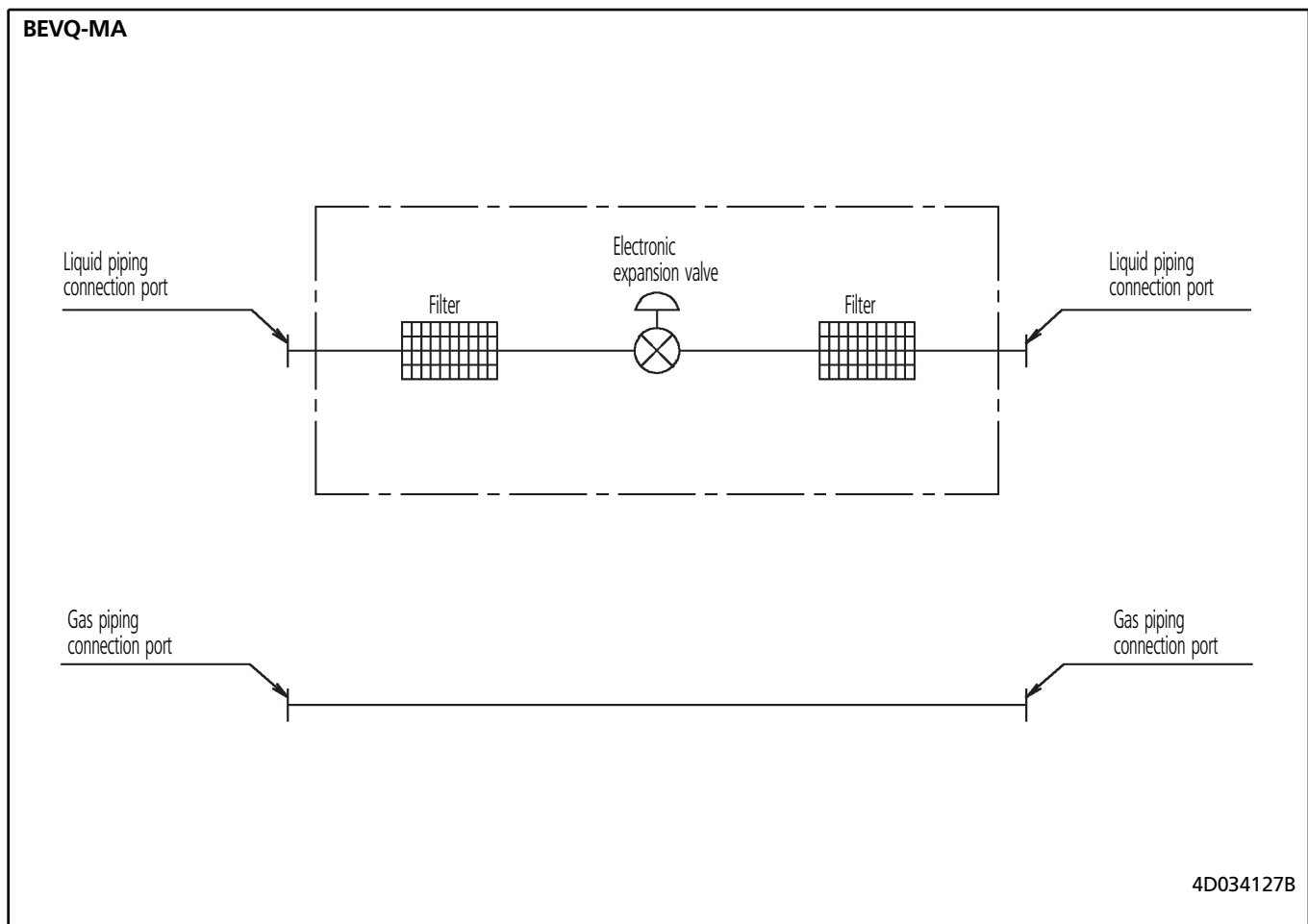
2 - 2 Centre of gravity

BEVQ-MA



3D030851D

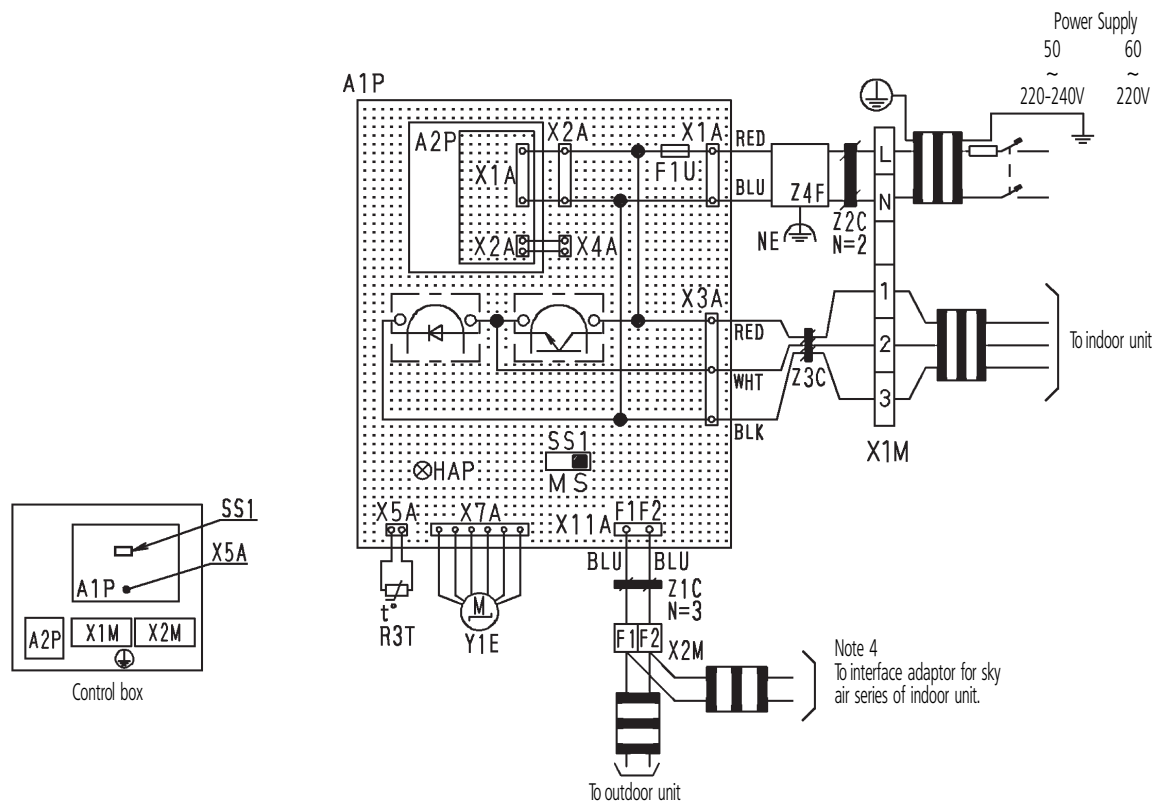
3 Piping diagram



4 Wiring diagram

4 - 1 Wiring diagram

BEVQ-MA



A1P	Printed circuit board Assy	SS1	Selector switch (M/S)
A2P	Power supply printed circuit board Assy (220-240V/16V)	X1M	Terminal strip (Power)
F1U	Fuse (⊗, 10A/250V)	X2M	Terminal strip (Transmission)
HAP	Light emitting diode (Service monitor-green)	Y1E	Electronic expansion valve
R3T	Thermistor (Gas)	Z1C ~ Z3C / Z4F	Noise filter

 : Terminal
 : Connector
 : Field wiring

COLORS : BLU : Blue RED : Red
 WHT : White BLK : Black

NOTES

- 1 This wiring diagram only shows the BEV unit. See the wiring diagrams and installation manuals for the wiring and settings for the indoor, outdoor, and BS units.
- 2 See the indoor unit's wiring diagram when installing optional parts for the indoor unit.
- 3 Only one indoor unit may be connected to the BEV unit. See the indoor unit's wiring diagram when connecting the remote control.
- 4 Always use the sky air connection adapter for the indoor unit when using a central control unit. Refer to the manual attached the unit when connecting.
- 5 Cool/Heat changeover of indoor units connected to BEV unit cannot be carried out unless they are connected to BS unit.
In cas of a system with BEV unit only, Cool/Heat selector is required.
- 6 Set the SS1 tot "M" only for the BEV unit connected to the indoor unit which is to have Cool/Heat switching capability, when connecting the BS unit.
The "M/S" on the SS1 stands for "Main/Sub".
This is set to "S" when shipped from the factory.
- 7 Connect the attached thermistor to the R3T.

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