DAIKIN

Air Conditioning

Technical Data

4-way blow ceiling suspended unit

EEDEN12-204

FXUQ-MA

TABLE OF CONTENTS

FXUQ-MA

1 Features

- Can be installed in both new and existing buildings
- Air can be discharged in any of 4 directions
- Auto swing function ensures efficient air and temperature distribution
- Air can be discharged in 5 different angles between 0 and 60º
- Possibility to shut 1 or 2 flaps for easy installation in corners
- Air flow distribution for ceiling heights up to 3.5m without capacity loss
- Standard drain pump with 500mm lift

2 steps

optional

standard

2 Specifications

2-1 Technical Specifications					FXUQ71MA	FXUQ100MA	FXUQ125MA
Cooling capacity	Nom.			kW	8.0	11.2	14.0
Heating capacity	Nom.			kW	9.0	12.5	14.0
Power input - 50Hz	Cooling	Nom.		kW	0.180	0.289	
	Heating	Nom.		kW	0.160	0.269	
Casing	Colour				White		
	Material				Resin		
Dimensions	Unit	Height		mm	165	230	
		Width		mm	895		
		Depth		mm	895		
	Packed unit	Height		mm	230	295	
		Width		mm	960		
		Depth		mm	960		
Weight	Unit			kg	25	31	
	Packed unit			kg	35	42	
Heat exchanger	Type				Cross fin coil (multi louver fins and N-hix tubes)		
	Length			mm	2,101		
	Rows	Quantity			3		
	Fin pitch			mm	1.5		
	Passes	Quantity			8		12
	Face area			m²	0.265	0.353	
	Stages	Quantity			6	8	
	Empty tubeplate hole	Quantity			0	4	0
Fan	Type				Turbo fan		
	Quantity				1		
	Air flow rate - 50Hz	Cooling	High	m³/min	19	29	32
			Low	m³/min	14	21	23
		Heating	High	m³/min	19	29	32
			Low	m³/min	14	21	23
Fan motor	Model				QTS48A10M	QTS50B15M	
	Speed	Steps			2		
	Output	High		W	45	90	
Sound power level	Cooling	High		dBA	56	59	60
Sound pressure level	Cooling	High		dBA	40	43	44
		Low		dBA	35	38	39
	Heating	High		dBA	40	43	44
		Low		dBA	35	38	39
Refrigerant	Type				R-410A		
Piping connections	Liquid	Type			Flare connection		
		OD		mm	9.52		
	Gas	Type			Flare connection		
		OD		mm	15.9		
	Drain				I.D. 20/O.D. 26		
	Heat insulation				Heat resistant foamed polyethylene, regular foamed polyethylene		
Safety devices	Item	01			Fan motor thermal protection		

Standard Accessories : Holding plate;
Standard Accessories : Washer;
Standard Accessories : Clamps;
Standard Accessories : Sealing pads;
Standard Accessories : Insulation for fitting;
Standard Accessories : Clamp metal;
Standard Accessories : Drain hose;
Standard Accessories : Installation and operation manual;
Standard Accessories : Sealing material;
Standard Accessories : Gas connection pipe;
Standard Accessories : Installation manual;

2 Specifications

2-2 Electrical Specifications				FXUQ71MA	FXUQ100MA	FXUQ125MA
Power supply	Name			V1		
	Phase			1~		
	Frequency		Hz	50		
	Voltage		V	220-240		
Current - 50Hz	Full load amps (FLA)	Total	A	0.6	1.0	

Notes

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

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

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

(4) MFA ≤ 4 x FLA

(5) Next lower standard fuse rating minimum 15A

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

(7) Instead of a fuse, use a circuit breaker

3 Safety device settings

3 - 1 Safety Device Settings

		FXUQ71MA	FXUQ100MA	FXUQ125MA
FAN MOTOR THERMAL PROTECTOR	°C	OFF: $130^{\pm 5}$		

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4 Options

4 - 1 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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5 Control systems

5 - 1 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.

6 Capacity tables

6 - 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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6 Capacity tables

6 - 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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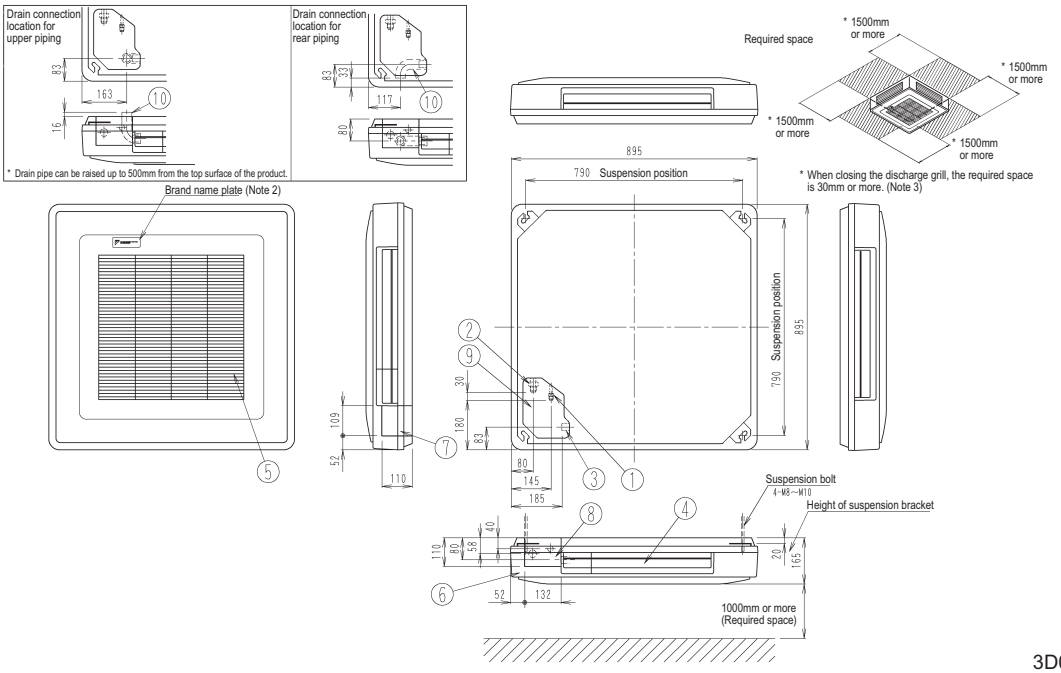
7 Dimensional drawings

7 - 1 Dimensional Drawings

FXUQ71MA



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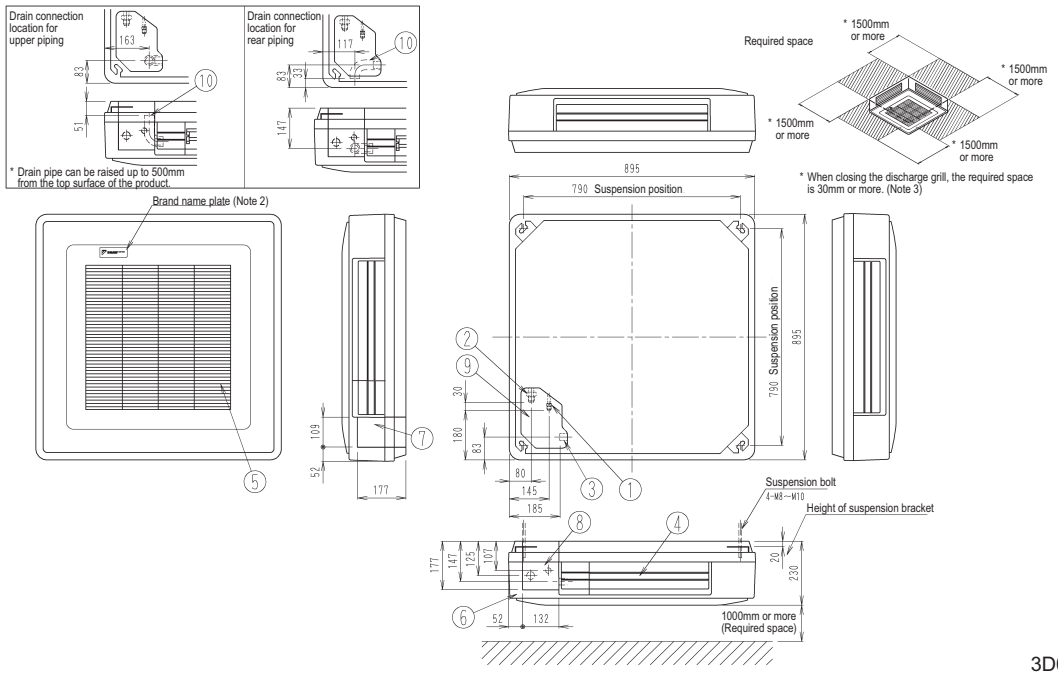
No.	Name	Description
1	Liquid pipe connection	ø 9.5 flare
2	Gas pipe connection	ø 15.9 flare
3	Drain pipe connection	VP20
4	Air outlet	
5	Air suction grille	
6	Corner decoration cover	
7	Right pipe / wiring connection	
8	Rear pipe / wiring connectin	
9	Pipe through cover	
10	Accessory drain elbow	

NOTES

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

FXUQ100,125MA



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No.	Name	Description
1	Liquid pipe connection	ø 9.5 flare
2	Gas pipe connection	ø 15.9 flare
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 connectin	
9	Pipe through cover	
10	Accessory drain elbow	

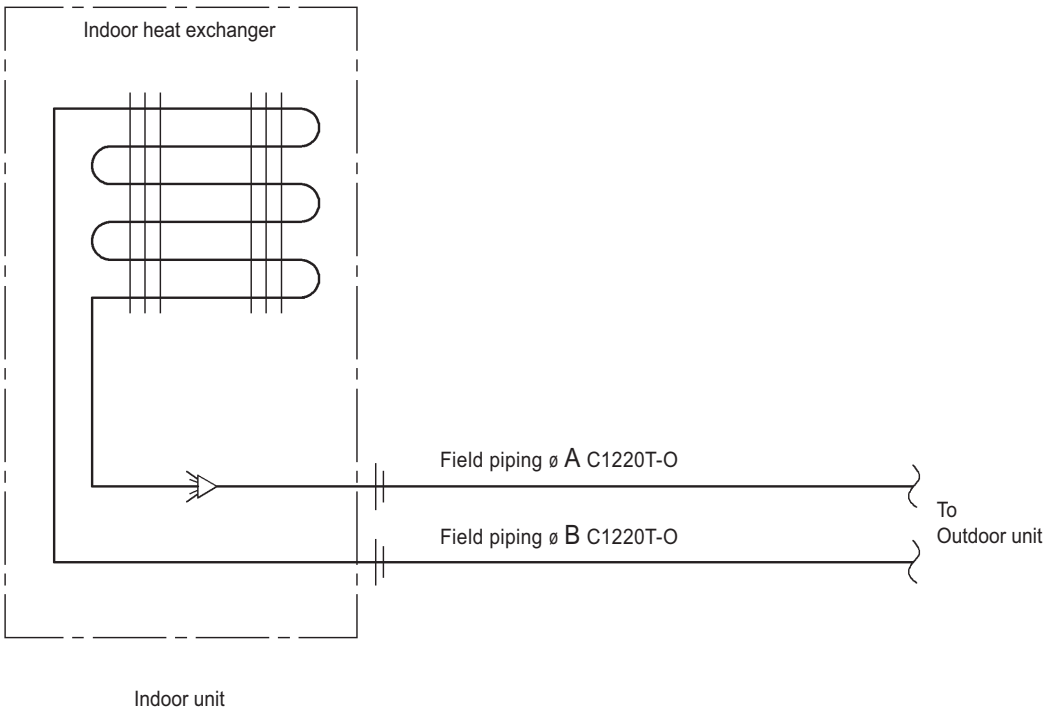
NOTES

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

8 Piping diagrams

8 - 1 Piping Diagrams

FXUQ-MA



Model	A	B
FXUQ71,100,125MA	9.5	15.9

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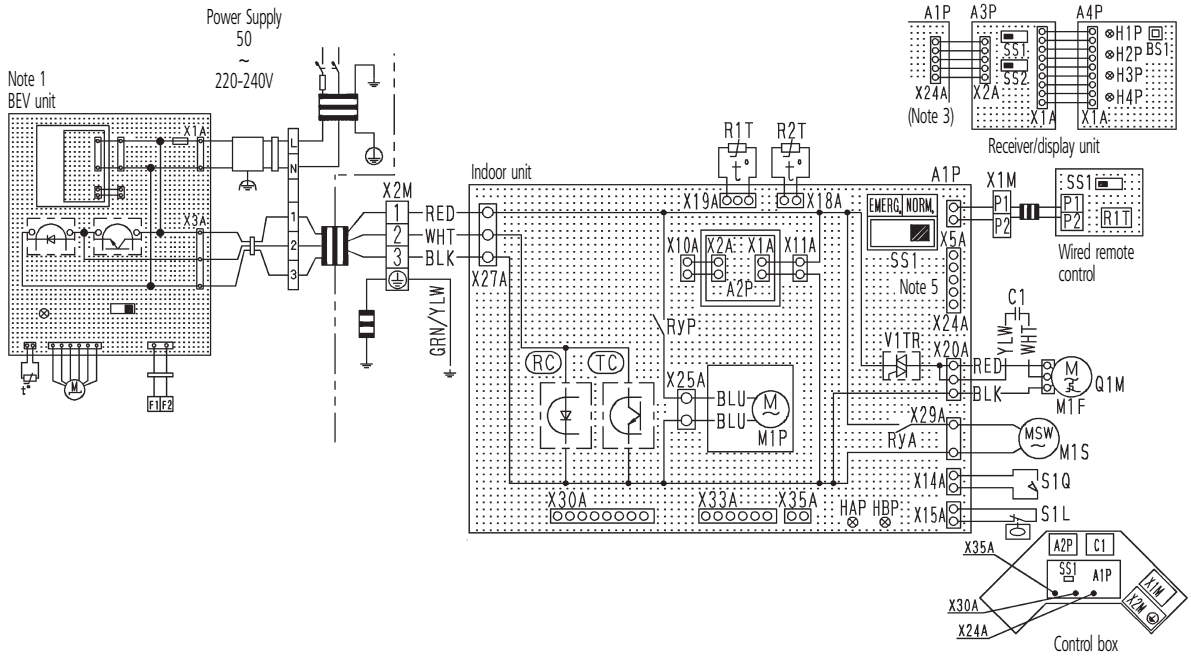
9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FXUQ-MA



Indoor Unit		S1L	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	BS1	Push button (ON/OFF)
HAP	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 (Infrafed 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)

: Terminal
: Connector
: Field wiring

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

NOTES

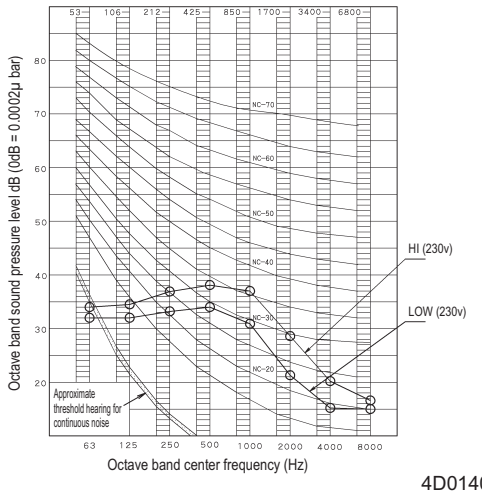
1 The BEV unit shows an outline, please refer to a wiring diagram of BEV unit pasting in detail.
2 In case using central remote control, connect it to the unit in accordance with the attached installation manual.
3 X24A is connected when the infrared remote control kit is being used.
4 Remote control model varies according to the combination system, confirm engineering materials and catalogs, etc. before connecting.
5 Confirm the method of setting the selector switch (SS1, SS2) of wired remote control and infrared remote control by installation manual and engineering data, etc.

3D044973A

10 Sound data

10 - 1 Sound Pressure Spectrum

FXUQ71MA



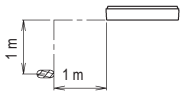
4D014037E

NOTES

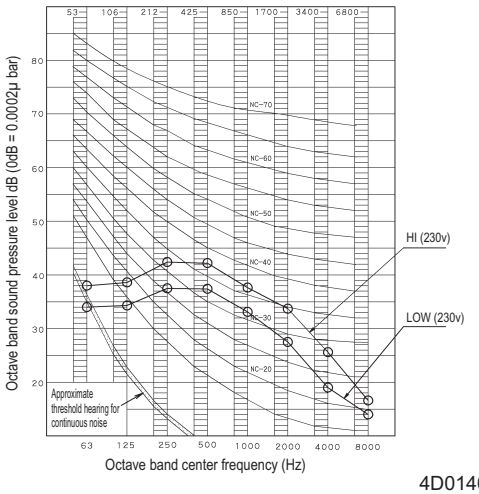
1. Over All (dB):
   (B,G,N is already rectified)
2. Power level (dB)
3. Measuring place: Anechoic chamber
4. Operating conditions:
   Power source: 230V 50Hz
   Cooling: return air temperature: 27°CDB, 19°CWB
   outdoor temperature: 35°CDB, 24°CWD
   Heating: return air temperature: 20°CDB, 15°CWB
   outdoor temperature: 7°CDB, 6°CWB
5. Direction discharge: ○——○ 230V
6. Operation noise differs with operation and ambient conditions.
7. Location of microphone.

Scale	230V	
	HI	LOW
A	40	35
C	44	40

230V	
HI	LOW
56	51



FXUQ100MA



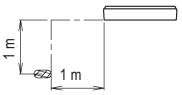
4D014038E

NOTES

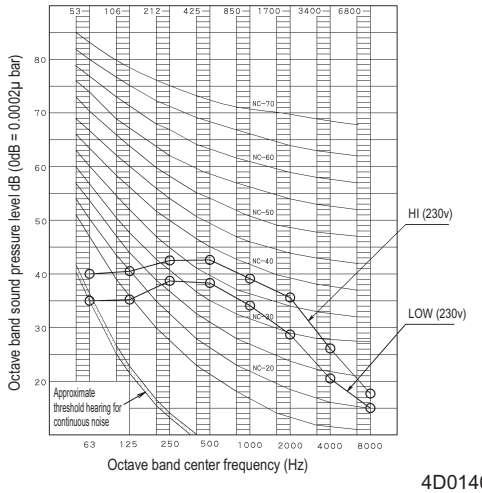
1. Over All (dB):
   (B,G,N is already rectified)
2. Power level (dB)
3. Measuring place: Anechoic chamber
4. Operating conditions:
   Power source: 230V 50Hz
   Cooling: return air temperature: 27°CDB, 19°CWB
   outdoor temperature: 35°CDB, 24°CWD
   Heating: return air temperature: 20°CDB, 15°CWB
   outdoor temperature: 7°CDB, 6°CWB
5. Direction discharge: ○——○ 230V
6. Operation noise differs with operation and ambient conditions.
7. Location of microphone.

Scale	230V	
	HI	LOW
A	43	38
C	48	43

230V	
HI	LOW
59	54



FXUQ125MA



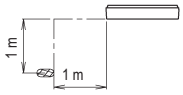
4D014039E

NOTES

1. Over All (dB):
   (B,G,N is already rectified)
2. Power level (dB)
3. Measuring place: Anechoic chamber
4. Operating conditions:
   Power source: 230V 50Hz
   Cooling: return air temperature: 27°CDB, 19°CWB
   outdoor temperature: 35°CDB, 24°CWD
   Heating: return air temperature: 20°CDB, 15°CWB
   outdoor temperature: 7°CDB, 6°CWB
5. Direction discharge: ○——○ 230V
6. Operation noise differs with operation and ambient conditions.
7. Location of microphone.

Scale	230V	
	HI	LOW
A	44	39
C	49	44

230V	
HI	LOW
60	55

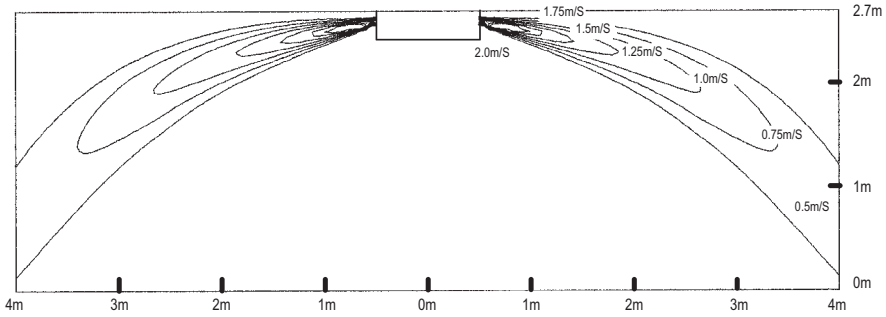


11 Air flow patterns

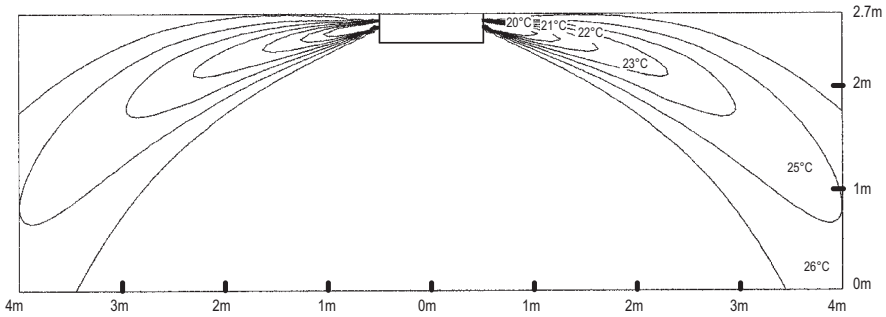
11 - 1 Air Flow Pattern - Cooling

FXUQ71MA

Cooling: Air velocity distribution
4 way discharge Air flow direction: Horizontal



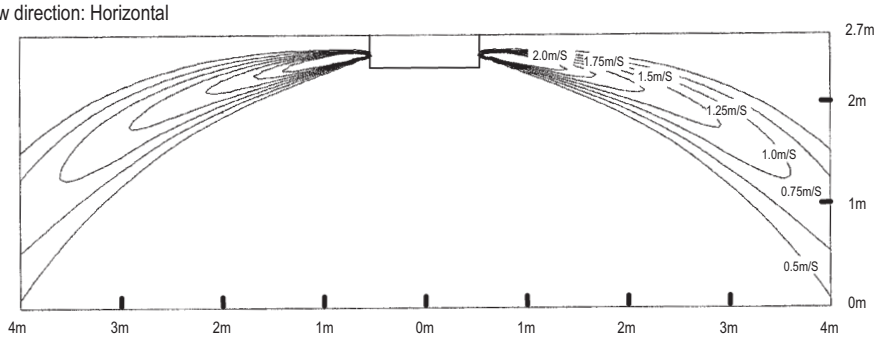
Cooling: Air temperature distribution
4 way discharge Air flow direction: Horizontal



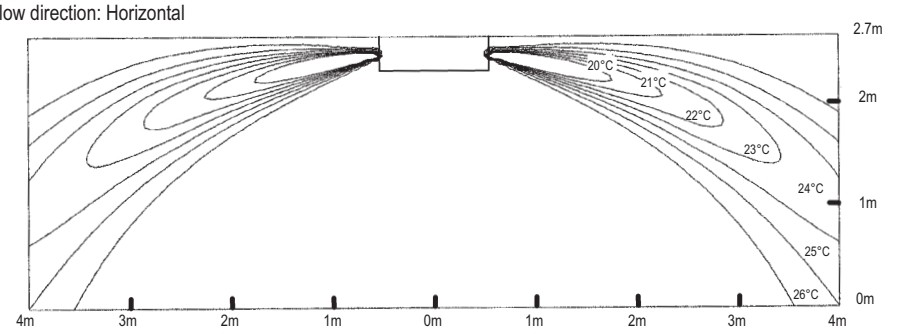
4D028396D

FXUQ100MA

Cooling: Air velocity distribution
4 way discharge Air flow direction: Horizontal



Cooling: Air temperature distribution
4 way discharge Air flow direction: Horizontal



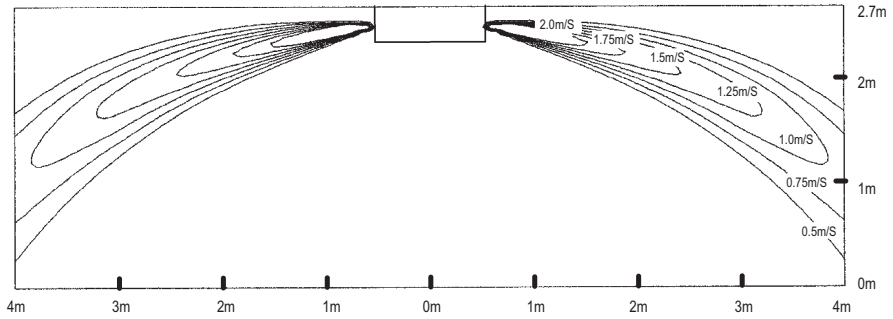
4D028397D

11 Air flow patterns

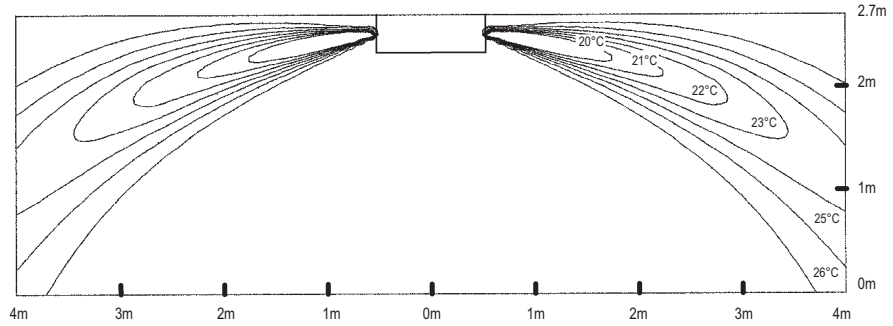
11 - 1 Air Flow Pattern - Cooling

FXUQ125MA

Cooling: Air velocity distribution
4 way discharge Air flow direction: Horizontal



Cooling: Air temperature distribution
4 way discharge Air flow direction: Horizontal



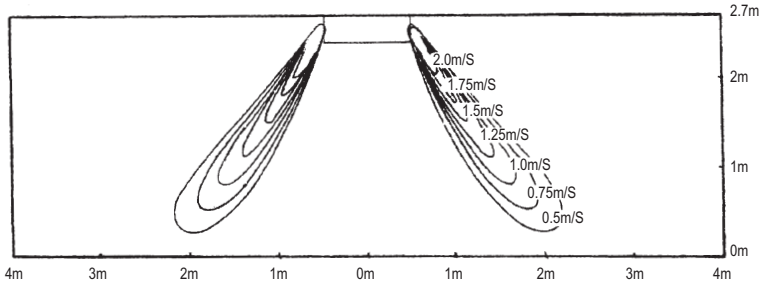
4D028398D

11 Air flow patterns

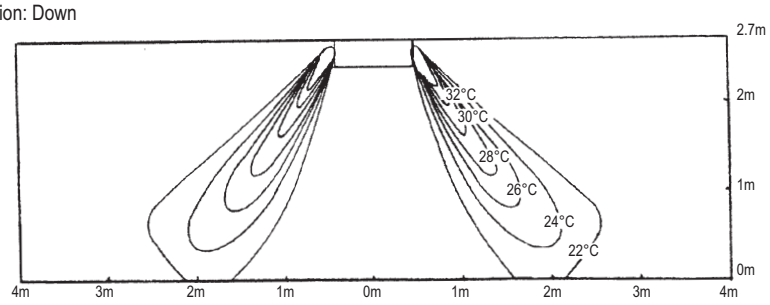
11 - 2 Air Flow Pattern - Heating

FXUQ71MA

Heating: Air velocity distribution
4 way discharge Air flow direction: Down



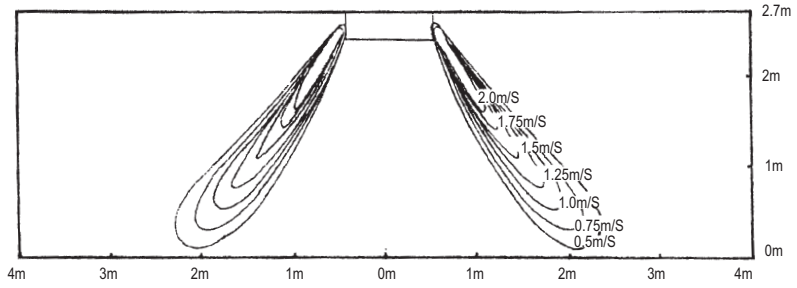
Heating: Air temperature distribution
4 way discharge Air flow direction: Down



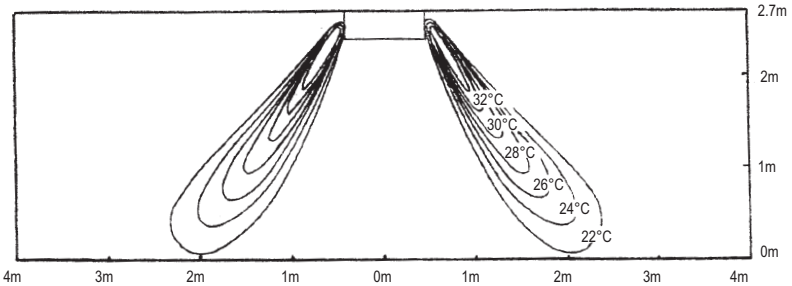
4D013863E

FXUQ100MA

Heating: Air velocity distribution
4 way discharge Air flow direction: Down



Heating: Air temperature distribution
4 way discharge Air flow direction: Down



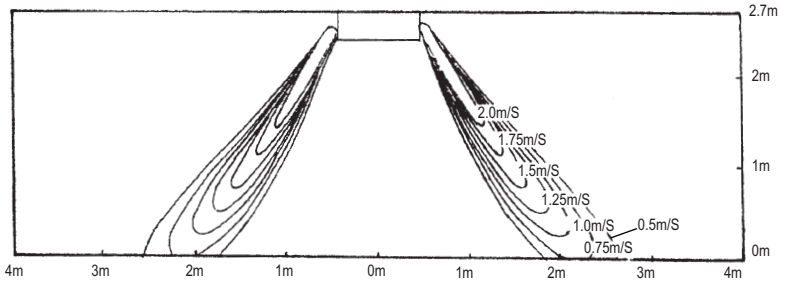
4D014054E

11 Air flow patterns

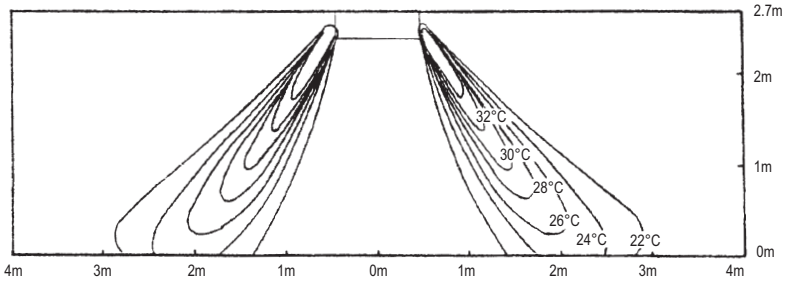
11 - 2 Air Flow Pattern - Heating

FXUQ125MA

Heating: Air velocity distribution
4 way discharge Air flow direction: Down



Heating: Air temperature distribution
4 way discharge Air flow direction: Down



4D014055E

12 Junction box - BEVQ-MAVE

12 - 1 Specifications

12-1-1Technical Specifications					BEVQ71MA	BEVQ125MA	BEVQ100MA
Power input	Cooling	Nom.		kW	0.189	0.298	
	Heating	Nom.		kW	0.169	0.278	
Casing	Material				Galvanised steel plate		
Dimensions	Unit	HeightxWidthxDepth		mm	100x350x225		
Weight	Unit			kg	3.0	3.5	3.0
Piping connections	Outdoor unit	Liquid	Type		Flare connection		
			OD	mm	9.52		
		Gas	OD		15.9		
			Type		Flare connection		
	Indoor unit	Liquid	Type		Flare connection		
			OD	mm	9.52		
		Gas	Type		Flare connection		
			OD	mm	15.9		
Sound absorbing thermal insulation					Flame and heat resistant foamed polyetherene		

Standard Accessories : Clamps;

Standard Accessories : Sealing material;

Standard Accessories : Insulation for fitting;

Standard Accessories : Gas connection pipe;

Standard Accessories : Installation manual;

12-1-2Electrical Specifications				BEVQ71MA	BEVQ125MA	BEVQ100MA
Power supply	Phase			1~		
	Voltage		V	220-240/220		
Voltage range	Min.		%	-10		
	Max.		%	10		
Current	Total circuit	Minimum circuit amps (MCA)	A	0.8	1.3	
		Maximum fuse amps (MFA)	A	15		
Notes				Instead of a fuse, use a circuit breaker		

Notes

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

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

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

(4) MFA ≤ 4 x FLA

(5) Next lower standard fuse rating minimum 15A

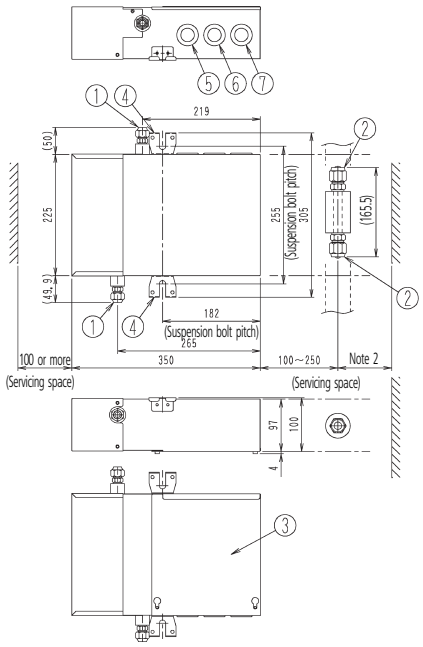
(6) Select wire size based on the value of MCA

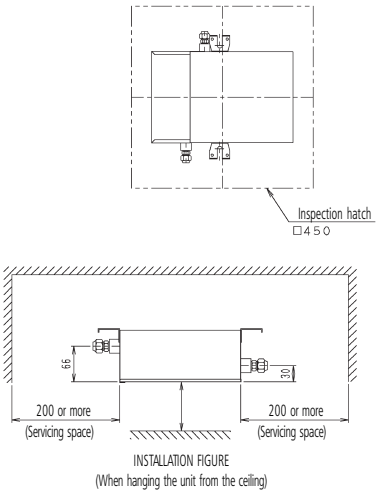
(7) Instead of a fuse, use a circuit breaker

12 Junction box - BEVQ-MAVE

12 - 2 Dimensional drawings

BEVQ-MA





INSTALLATION FIGURE
(When hanging the unit from the ceiling)

Nr.	Part name	Description
1	Liquid pipe connection port	ø9.5 Flare connection
2	Gas pipe connection port	ø15.9 Flare connection
3	Electric parts box	
4	Suspension bolt	
5	Wire connection port (Indoor unit conncection)	
6	Wire connection port (Power supply • Ground)	
7	Wire connection port (Transmission (VRV) • Gas pipe thermistor)	

NOTES

1 Be sure to install wire connection port to be sure to become downward.

2 Be sure to secure the space which can be the thightening work of the flare nut.

3 Be sure to secure the space of 400 mm or more when you cannot install the inspection hatch right under the unit.

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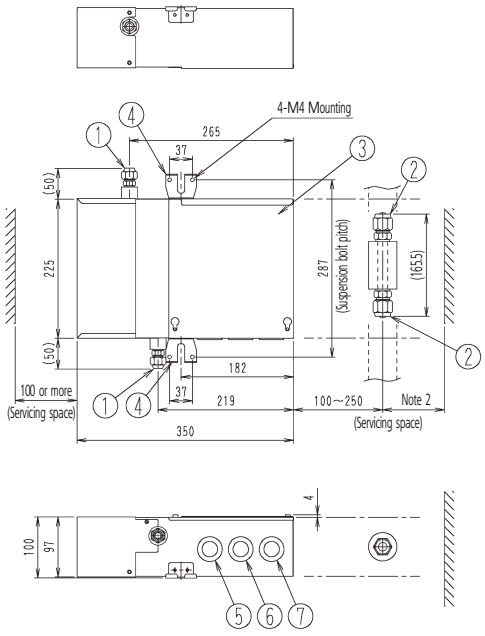
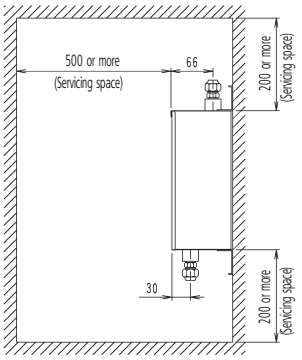
BEVQ-MA





INSTALLATION FIGURE
(When installing the unit on wall)

Nr.	Part name	Description
1	Liquid pipe connection port	ø9.5 Flare connection
2	Gas pipe connection port	ø15.9 Flare connection
3	Electric parts box	
4	Suspension bolt	
5	Wire connection port (Indoor unit conncection)	
6	Wire connection port (Power supply • Ground)	
7	Wire connection port (Transmission (VRV) • Gas pipe thermistor)	

NOTES

1 Be sure to install wire connection port to be sure to become downward.

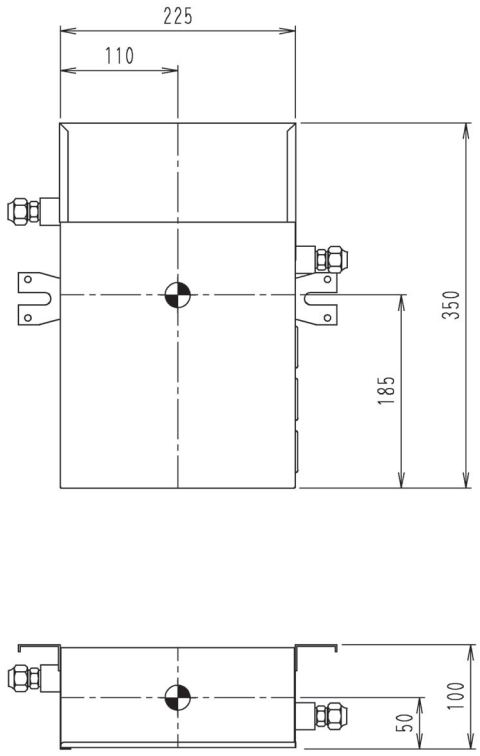
2 Be sure to secure the space which can be the thightening work of the flare nut.

3TW045389

12 Junction box - BEVQ-MAVE

12 - 3 Centre of gravity

BEVQ-MA



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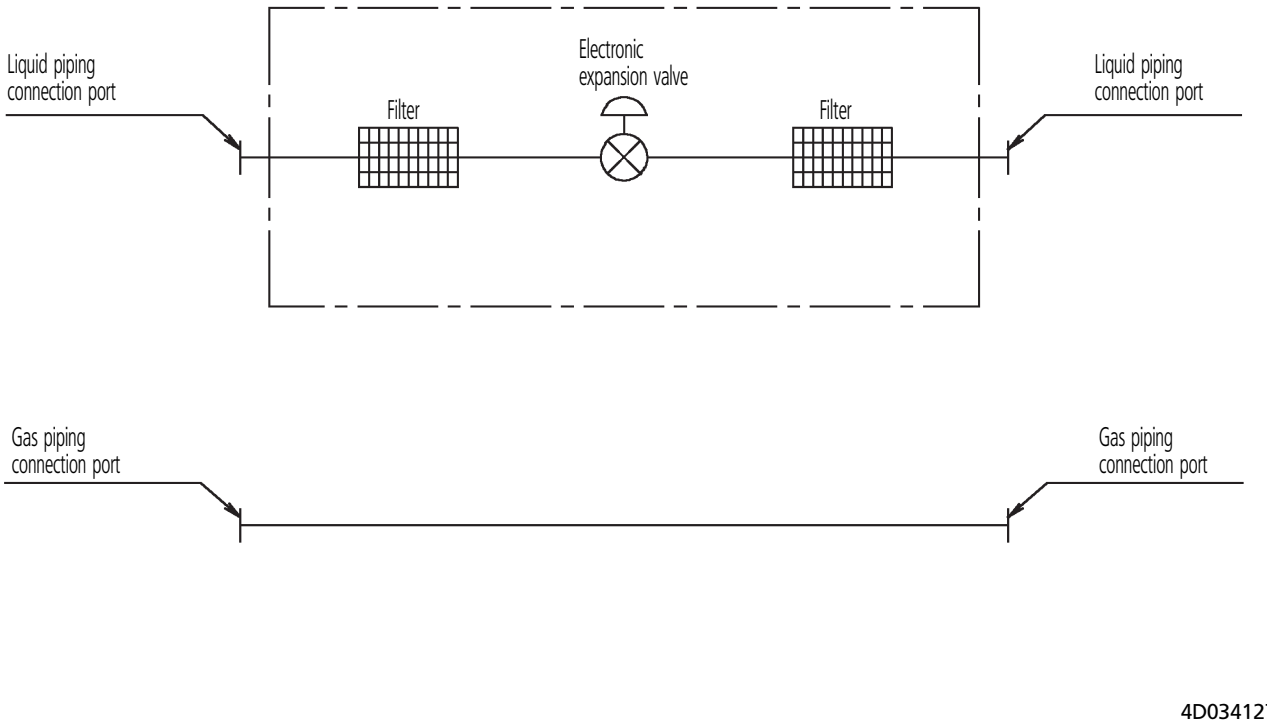
12 Junction box - BEVQ-MAVE

12 - 4 Piping diagrams

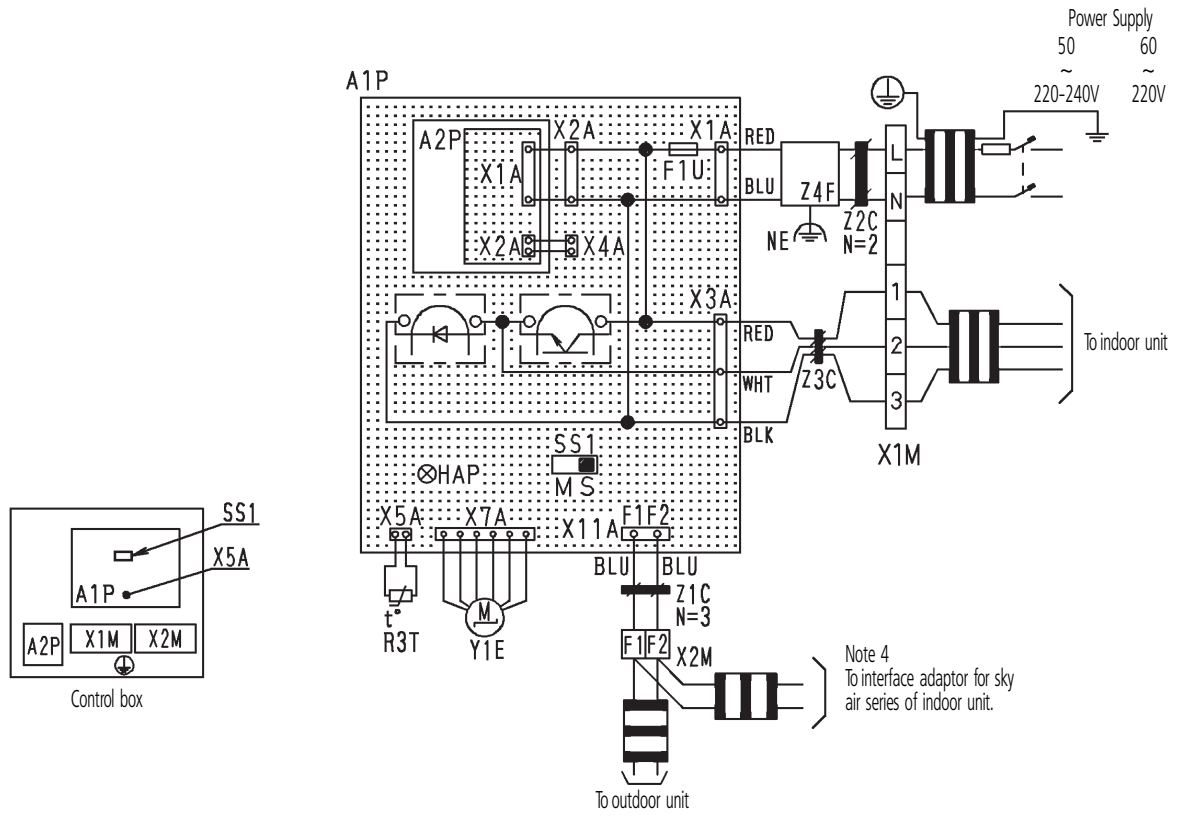
BEVQ-MA



12 Junction box - BEVQ-MAVE

12 - 5 Wiring Diagrams - Single Phase

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 TThis 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.

3D044901B

In all of us, a green heart

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

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