



technical data

FUQ-BU

**4-way Blow Ceiling
Suspended Cassette**



air conditioning systems

Split Sky Air

Split - Sky Air



ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment



Daikin units comply with the European regulations that guarantee the safety of the product.



Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.



Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FCU); the certified data of certified models are listed in the Eurovent Directory.

Specifications are subject to change without prior notice.

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FUQ-BU

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For capacity tables, please refer to part II: outdoor units

1 Features



1

- Ideal for refurbishment
- Leaves maximum floor and wall space for furniture, decoration and fittings
- Air can be discharged in any of four directions
- Air flow distribution for ceiling heights up to 3.5m without loss of capacity.
- Possibility to shut off 1 or 2 flaps for easy installation in corners
- Extremely quiet in operation both indoors and outdoors
- The air filter, drain pan and heat exchanger fin are mildew proof and anti-bacterial treated
- Drain-up pump with increased lift of 500mm
- Flexible installation: can be installed in the middle of a room or in a corner
- For equal distribution in larger rooms, up to 3 indoor units can be connected to 1 outdoor
- These indoor units can also be connected to the Sky Air super inverter RZQ-B.
- Daikin remote controls give you easy control at your fingertips.
- The wired remote control provides you with a schedule timer, enabling to program the air conditioning daily or weekly.
- The optional remote ON/OFF enables you to start/stop the air conditioning from a mobile phone via a telephone remote control (field supply).
- The optional forced OFF enables you to switch off the unit automatically. E.g. when a window is opened, the unit switches off.
- The 'home leave' operation button prevents large temperature differences by continuously operating at a minimum (heating mode) or maximum (cooling mode) preset level while you're out or sleeping. It also allows the indoor temperature to return quickly to your favourite comfort level.



Optional



Optional



Optional



Heat pump



2 steps



Twin/triple



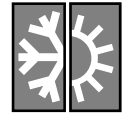
2 Specifications



2

NOMINAL CAPACITY and NOMINAL INPUT							
For indoor units only:							
INDOOR UNITS				FUQ71BHV1B	FUQ100BHV1B	FUQ125BHV1B	
NOMINAL INPUT	Cooling		kW	0.180	0.289	0.289	
	Heating		kW	0.160	0.269	0.269	

For combination indoor + outdoor units (air cooled):							
INDOOR UNITS				FUQ71BHV1B	FUQ100BHV1B	FUQ125BHV1B	
OUTDOOR UNITS				RR71B7V3B/RR71B7W1B	RR100B7V3B/RR100B7W1B	RR125B7W1B	
NOMINAL CAPACITY (3)	Cooling (1)	nominal	kW	7.1	10	12.2	
NOMINAL INPUT	Cooling	nominal	kW	2.70/2.65	3.83/3.78	4.57	
EER				2.63/2.68	2.61/2.65	2.67	
ENERGY LABEL	Cooling			D/D	D/D	D	
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	1,350/1,325	1,915/1,890	2,285	
INDOOR UNITS				FUQ71BHV1B	FUQ100BHV1B	FUQ125BHV1B	
OUTDOOR UNITS				RQ71B7V3B/RQ71B7W1B	RQ100B7V3B/RQ100B7W1B	RQ125B7W1B	
NOMINAL CAPACITY (3)	Cooling (1)	nominal	kW	7.1	10	12.2	
	Heating (2)	nominal	kW	8	11.2	14.5	
NOMINAL INPUT	Cooling	nominal	kW	2.70/2.65	3.83/3.78	4.57	
	Heating	nominal	kW	2.53/2.44	3.58/3.54	4.88	
EER				2.63/2.68	2.61/2.65	2.67	
COP				3.16/3.28	3.13/3.16	2.97	
ENERGY LABEL	Cooling			D/D	D/D	D	
	Heating			D/C	D/D	D	
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	1,350/1,325	1,790/1,890	2,285	
INDOOR UNITS				FUQ71BHV1B	FUQ100BHV1B	FUQ125BHV1B	
OUTDOOR UNITS				RZQ71B8V3B	RZQ100B8V3B/B7W1B	RZQ125B8V3B/B7W1B	
NOMINAL CAPACITY (3)	Cooling (1)	min~nom~max	kW	3.20~7.10~8.02	5.00~10.00~11.20	5.75~12.50~14.00	
	Heating (2)	min~nom~max	kW	3.52~8.00~9.04	5.15~11.20~12.77	6.02~14.00~16.24	
NOMINAL INPUT	Cooling	nominal	kW	2.26	3.05	4.25	
	Heating	nominal	kW	2.71	3.29	4.76	
EER				3.14	3.28	2.94	
COP				2.95	3.40	2.94	
ENERGY LABEL	Cooling			B	A	C	
	Heating			D	C	D	
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	1,131	1,525	2,126	

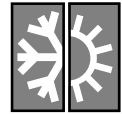


2 Specifications

2

TECHNICAL SPECIFICATIONS						
INDOOR UNITS				FUQ71BUV1B	FUQ100BUV1B	FUQ125BUV1B
DIMENSIONS	Unit	H	mm	165	230	230
		W	mm	895	895	895
		D	mm	895	895	895
WEIGHT	Unit		kg	25	31	31
MATERIAL	Unit			Resin		
COLOUR	Unit			White		
SOUND LEVEL	Sound pressure (cooling/heating) (3)	high	dB(A)	40/40	43/43	44/44
		low	dB(A)	35/35	38/38	39/39
	Sound power (cooling/heating) (4)	high	dB(A)	56/56	59/59	60/60
		low	dB(A)	51/51	54/54	55/55
FAN	Air flow rate (cooling/heating)	high	m ³ /min	19/19	29/29	32/32
		low	m ³ /min	14/14	21/21	23/23
	Speed	steps		2 steps		
	Type			Turbo fan		
	Qty x motor output	W		1 x 45	1 x 90	1 x 90
HEAT EXCHANGER	Type			Cross fin coil (Multi louver fins and N-HiX tubes)		
	Rows x stages x fin pitch	mm		3 x 6 x 1.5	3 x 8 x 1.5	3 x 8 x 1.5
	Face area	m ²		0.265	0.353	0.353
AIR FILTER				Resin net (with mold resistant)		
PIPING CONNECTIONS		liquid	mm	Φ9.5 (flare)		
		gas	mm	Φ15.9 (flare)		
		drain	mm	I.D. Φ20		
		drain	mm	O.D. Φ26		
INSULATION MATERIAL	Heat insulation			Heat resistant foamed polyethylene, regular foamed polyethylene		
For outdoor units	Pair application			See chapters RR-B7, RQ-B7, RZQ-B		

2 Specifications



2

ELECTRICAL SPECIFICATIONS							
For indoor units only:				FUQ71BHV1B	FUQ100BHV1B	FUQ125BHV1B	
CURRENT	Nominal running current	cooling	A	See chapter RR-B7, RQ-B7, RZQ-B			
		heating	A				
	Maximum running current	cooling	A				
		heating	A				
For combination indoor + outdoor units (air cooled):				FUQ71BHV1B	FUQ100BHV1B	FUQ125BHV1B	
				RR71B7V3B/RR71B7W1B	RR100B7V3B/RR100B7W1B	RR125B7W1B	
CURRENT	Nominal running current	cooling	A	See chapter RR-B7			
	Maximum running current	cooling	A				
	Starting running current	cooling	A				
For combination indoor + outdoor units (air cooled):				FUQ71BHV1B	FUQ100BHV1B	FUQ125BHV1B	
				RQ71B7V3B/RQ71B7W1B	RQ100B7V3B/RQ100B7W1B	RQ125B7W1B	
CURRENT	Nominal running current	cooling	A	See chapter RQ-B7			
	Maximum running current	cooling	A				
	Starting running current	cooling	A				
For combination indoor units + outdoor units:				FUQ71BHV1B	FUQ100BHV1B	FUQ125BHV1B	
				RZQ71B7V3B	RZQ100B7V3B	RZQ125B7V3B	
CURRENT	Nominal running current	cooling	A	See chapter RZQ-B			
	Maximum running current	cooling	A				
	Starting current	cooling	A				
For indoor units only:				FUQ71BHV1B	FUQ100BHV1B	FUQ125BHV1B	
POWER SUPPLY				V1	V1	V1	
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~	
	Frequency		Hz	50	50	50	
	Voltage		V	220-240	220-240	220-240	

NOTES

- Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB * outdoor temperature 35°CDB * refrigerant piping length: 7.5m * level difference: 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB/12°CWB * outdoor temperature: 7°CDB/6°CWB * refrigerant piping length: 7.5m * level difference 0m.
- Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- The sound pressure level is measured via a microphone at 1m distance from the unit. It is a relative value, depending on the distance and acoustic environment. For measuring conditions: please refer to item 6 of this chapter.
- The sound power level is an absolute value indicating the "power" which a sound source generates.
- Energy label: scale from A (most efficient) to G (less efficient).
- Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions)

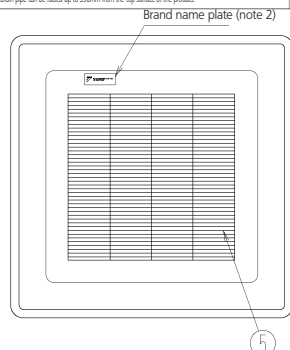
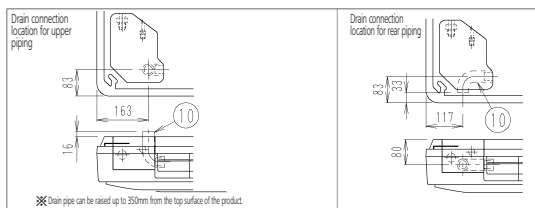


3 Dimensional drawings

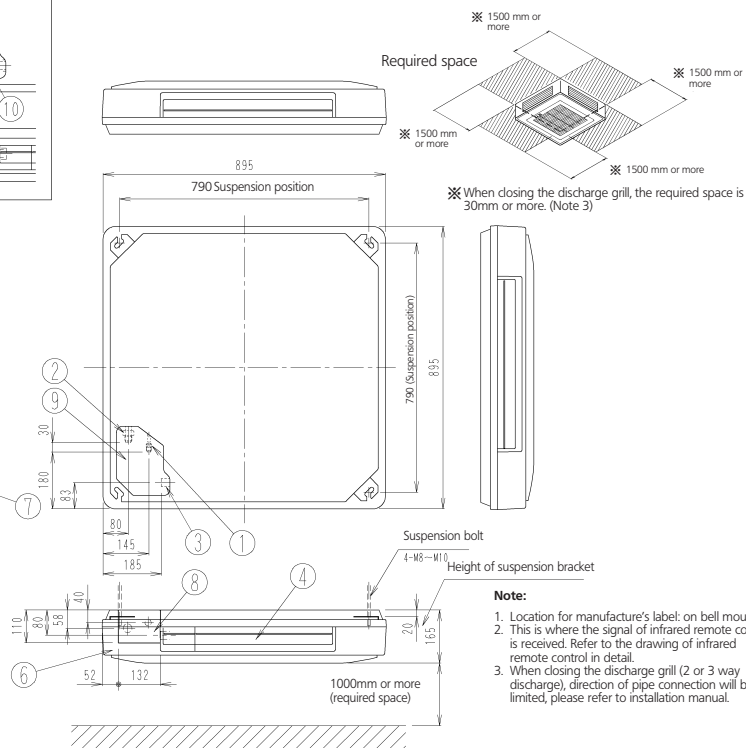
3

FUQ71BUV1B

unit (mm)



- 1 Liquid pipe connection - ϕ 9.5 flare
- 2 Gas pipe connection ϕ 15.9 flare
- 3 Drain pipe connection V.P.20
- 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



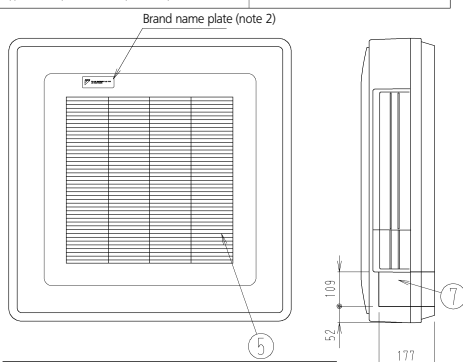
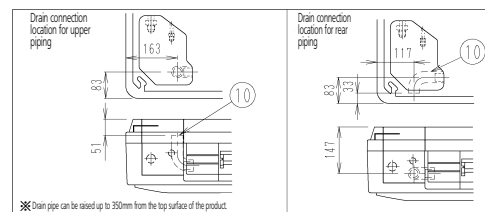
Note:

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.

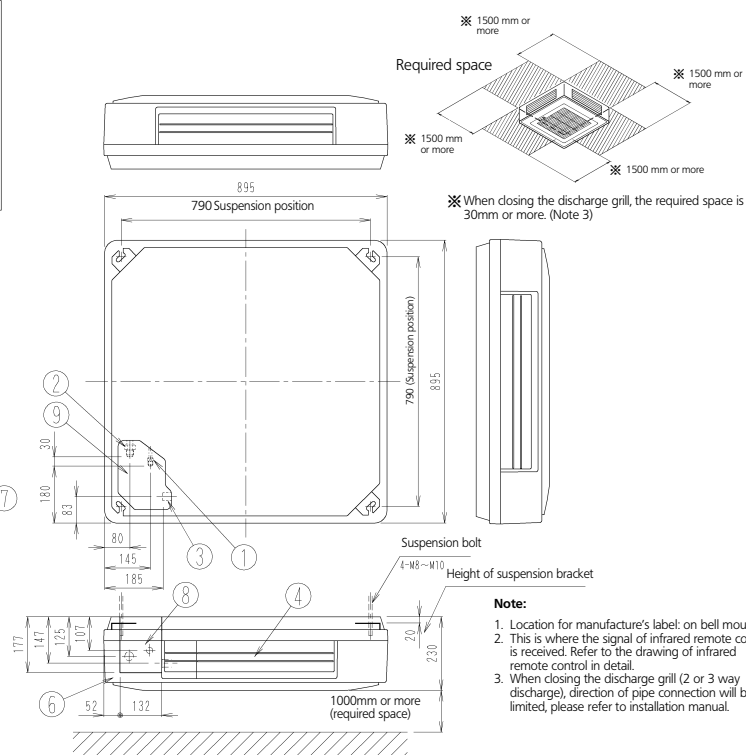
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FUQ100-125BUV1B

unit (mm)



- 1 Liquid pipe connection - ϕ 9.5 flare
- 2 Gas pipe connection ϕ 15.9 flare
- 3 Drain pipe connection V.P.20
- 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



Note:

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.

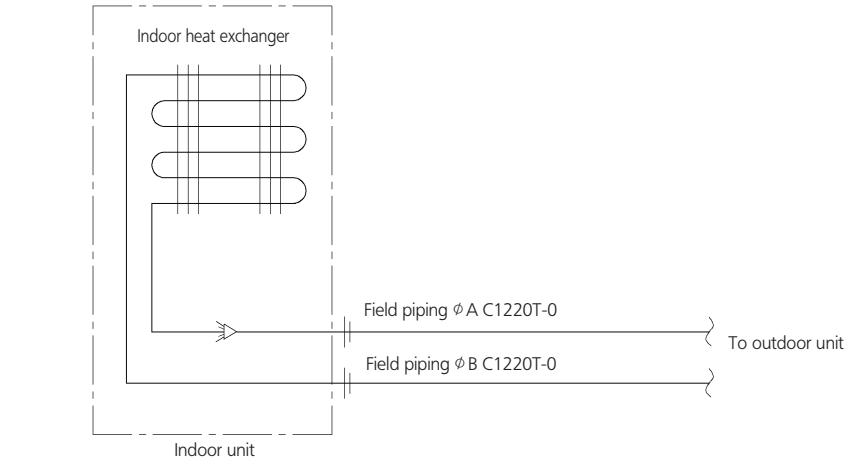
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4

Piping diagrams

FUQ71-100-125BUV1B



Refrigerant pipe connection port diameters

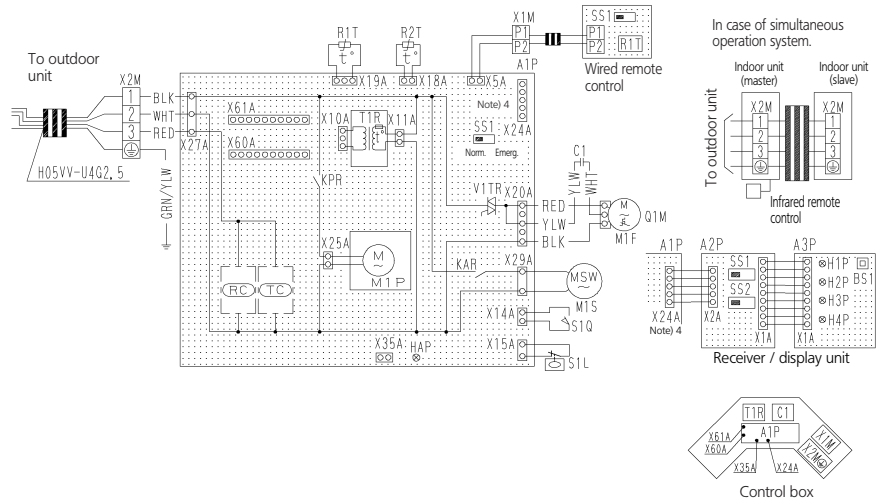
Model	A	B
FUQ71, 100, 125BUV1B	ϕ 9.5	ϕ 15.9

Check valve Flare connection Screw connection Flange connection Pinched pipe Spinned pipe

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FUQ71~125BUV1B

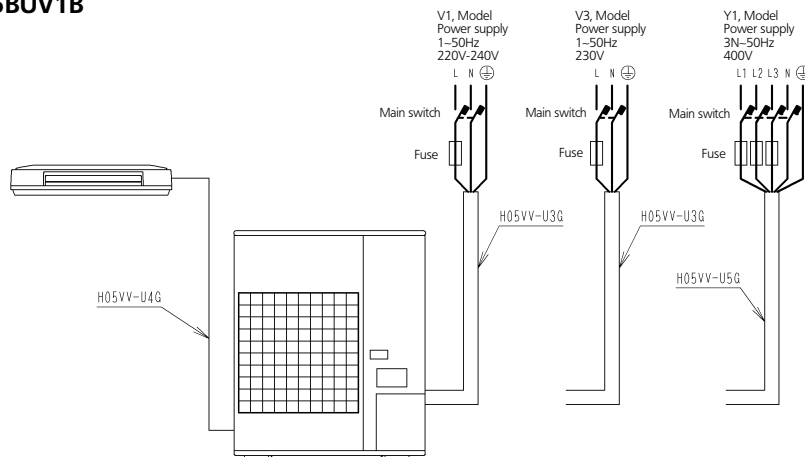
1. : Terminal : Connector
 : Protective earth (screw)
2. : Field wiring
3. In case using central remote control, connect it to the unit in accordance with the attached instruction manual.
4. X24A is connected when the infrared remote control kit is being used.
5. Remote control model varies according to the combination system, confirm technical materials and catalogs, etc. before connecting.
6. Symbols show as follows Red:red, Blk:black, Ylw:yellow, Org:orange, Gry:gray, Prp:purple, Blu:blue
7. Confirm the method of setting the selector switch (SS1, SS2) by installation manual and engineering materials.



A1P	Printed circuit board	S1L	Point switch (M1A)	Receiver / display unit (attached to infrared remote controller)	
C1R	Capacitor (M1T)	S1O	Limit switch (swing flap)	A2P	Printed circuit board
H4P	Light emitting diode (service monitor green)	S1S	Selector switch (emergency)	A3P	Printed circuit board
KAR	Magnetic relay (M1S)	T1R	Transformer (220-240V/22V)	B51	Push button (on/off)
KPR	Magnetic relay (IM1P)	V1R	Phase control circuit	H1P	Light emitting diode (service monitor red)
M1F	Motor (indoor fan)	X1M	Terminal stop	H2P	Light emitting diode (service monitor green)
M1P	Motor (drain pump)	X2M	Terminal strip	H3P	Light emitting diode (service monitor red)
M1S	Motor (swing flap)	(RC)	Signal receiver circuit	H4P	Light emitting diode (service monitor orange)
Q1M	Thermo switch (M1F embedded)	(TC)	Signal transmission circuit	SS1	Selector switch (main/sub)
R1T	Thermistor (air)		Wired remote control	SS2	Selector switch (wireless address set)
R2T	Thermistor (coil)	R1T	Thermistor (air)		
		SS1	Selector switch (main/sub)		

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FUQ71~125BUV1B



NOTES

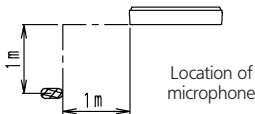
- 1  Line voltage wiring
2  Control circuit wiring
- 3 All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
- 4 Use copper conductors only.
- 5 See wiring diagrams for details.
- 6 Install fuse and main switch for safety.
- 7 All field wiring and components must be provided by a licensed electrician.
- 8 The unit shall be grounded in compliance with the applicable local and national codes.
- 9 Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
- Never share a common power supply with other equipment.

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6 Sound level

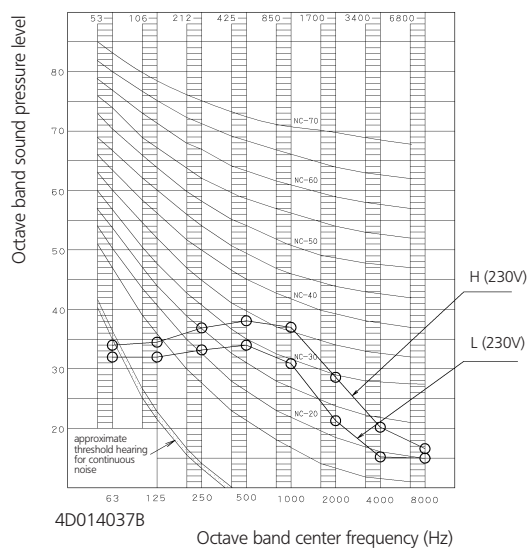
6-1 Sound level data

Model	Sound pressure level			Sound power level	
	230V				
	50Hz				
	Cooling (H/L)	Heating (H/L)	Measuring location	Cooling (H/L)	Heating (H/L)
FUQ71BUV1B	40/35	40/35		56/51	56/51
FUQ100BUV1B	43/38	43/38		59/54	59/54
FUQ125BUV1B	44/39	44/39		60/55	60/55

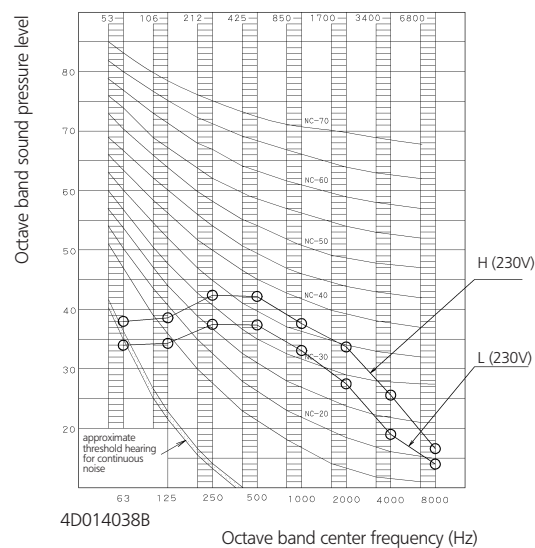
6
6-1

6-2 Sound pressure spectrum

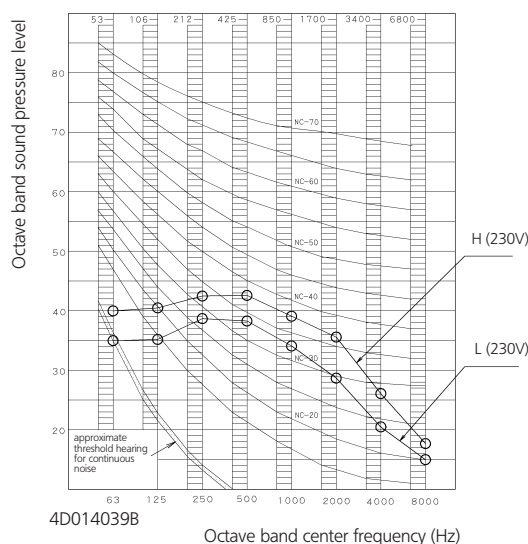
FUQ71BUV1B



FUQ100BUV1B



FUQ125BUV1B



NOTES

- 1 Sound pressure levels are measured in an anechoic room.
- 2 Operation sound levels are valid at nominal operation condition
- 3 Operation sound level differs with operation and ambient conditions.

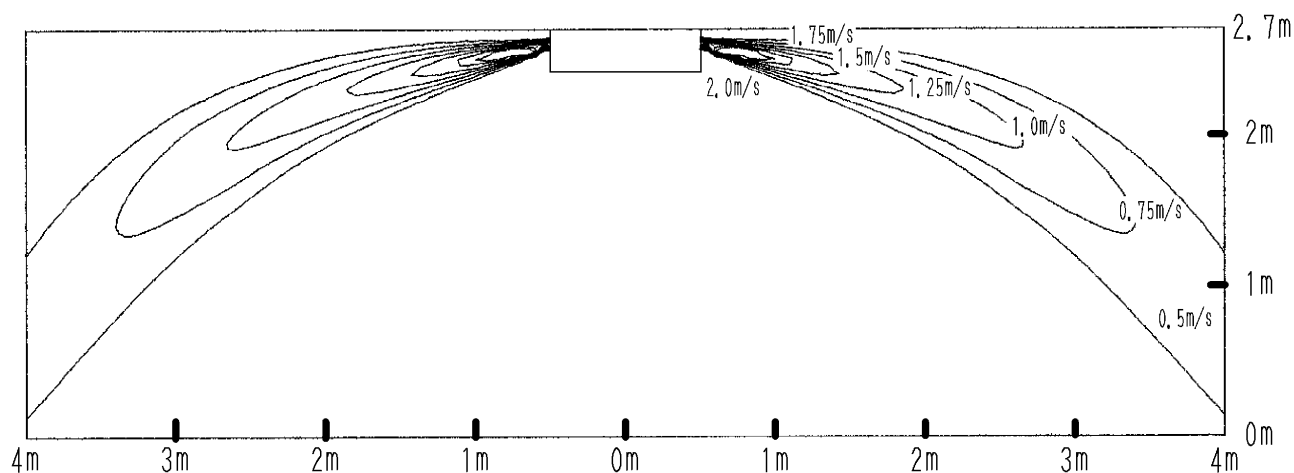
7 Air flow patterns



7 FUQ71BUV1B

Cooling - air velocity distribution

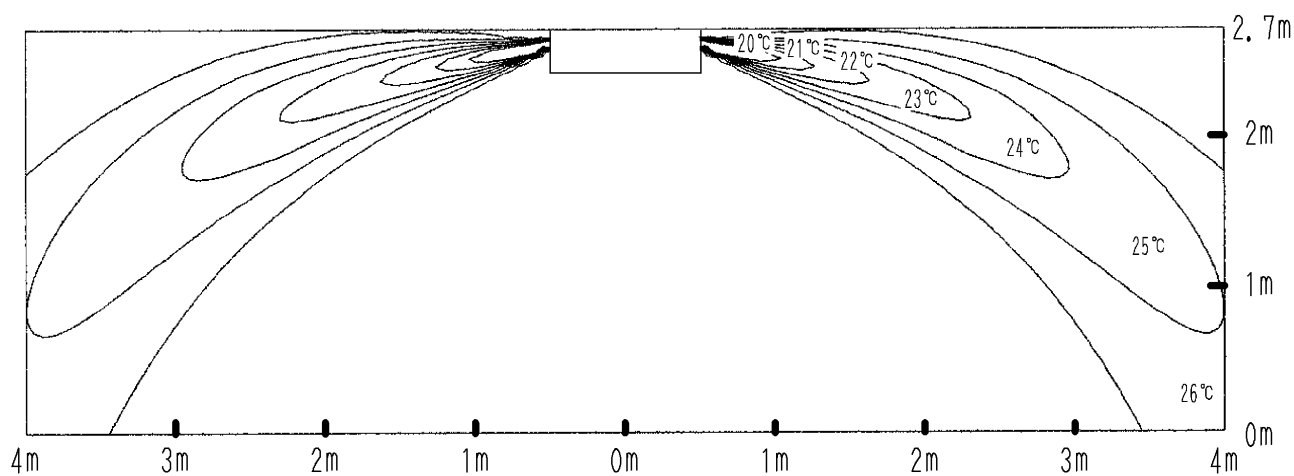
4-way discharge air flow direction: horizontal



FUQ71BUV1B

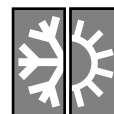
Cooling - air temperature distribution

4-way discharge air flow direction: horizontal



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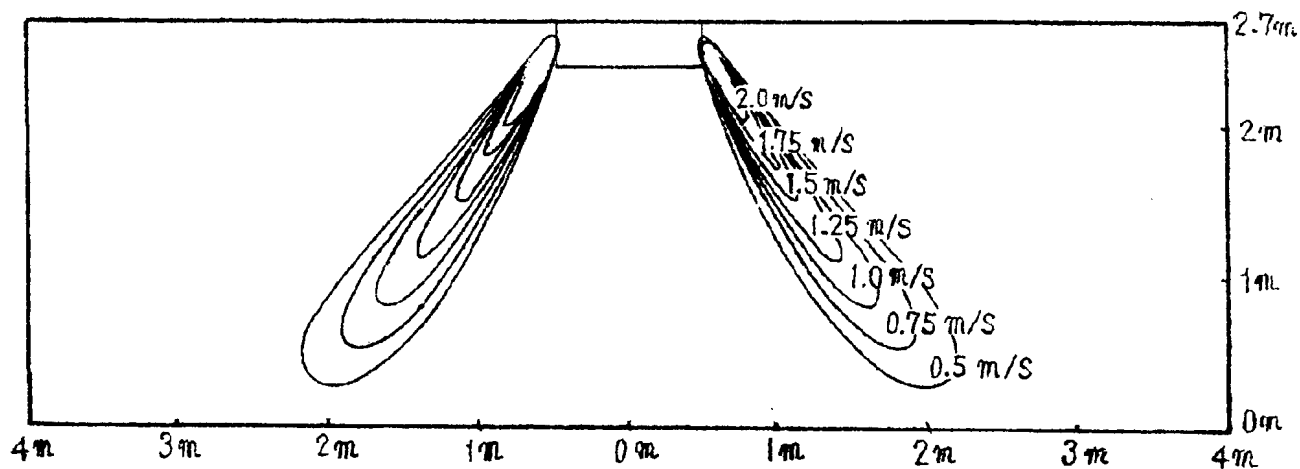
7 Air flow patterns



FUQ71BUV1B

Heating - air velocity distribution

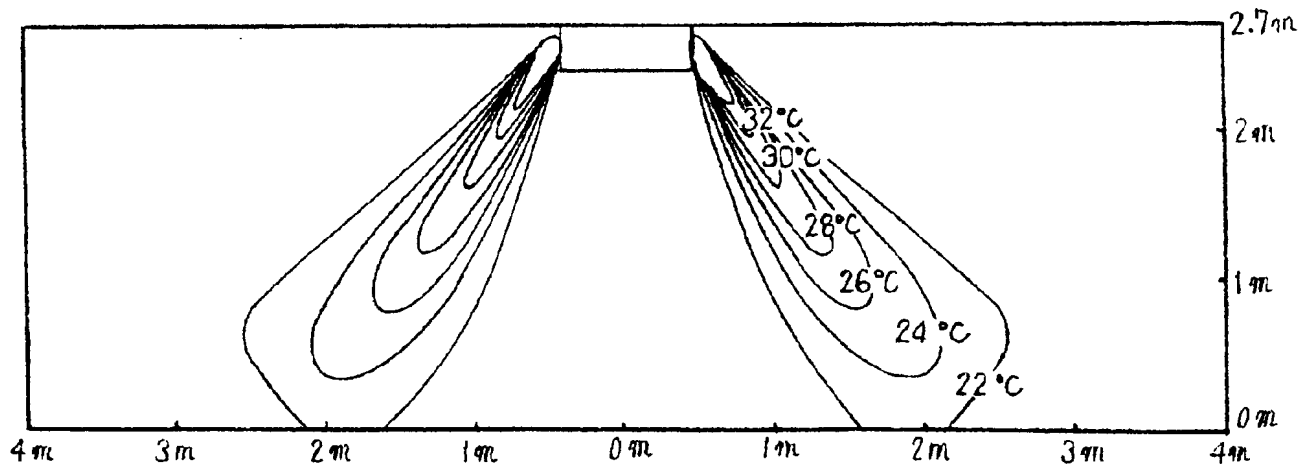
4-way discharge, air flow direction: down



FUQ71BUV1B

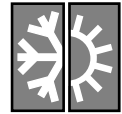
Heating - air temperature distribution

4-way discharge, air flow direction: down



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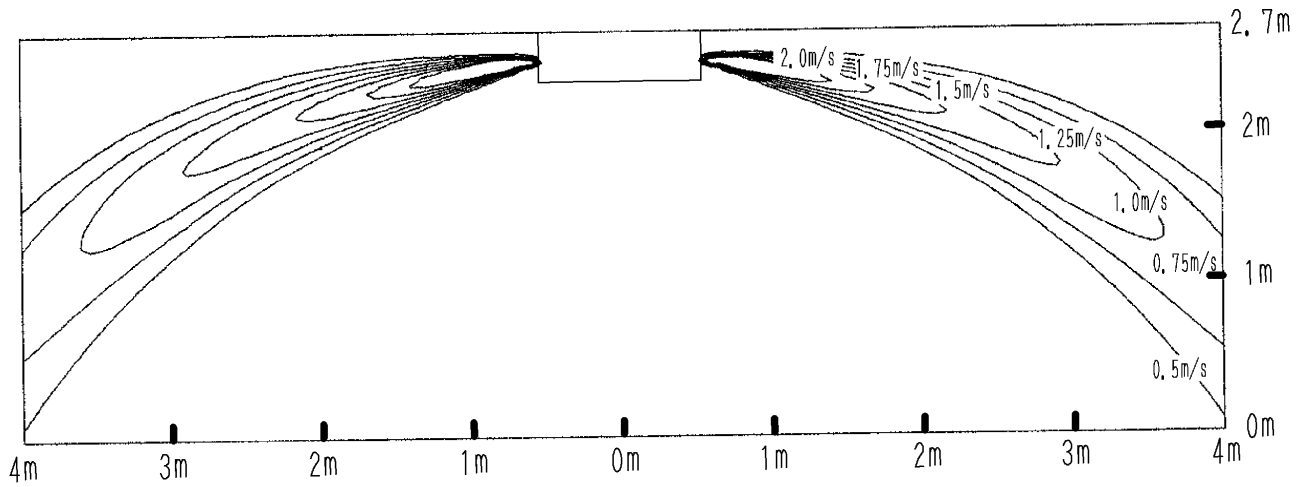
7 Air flow patterns



7 FUQ100BUV1B

Cooling - air velocity distribution

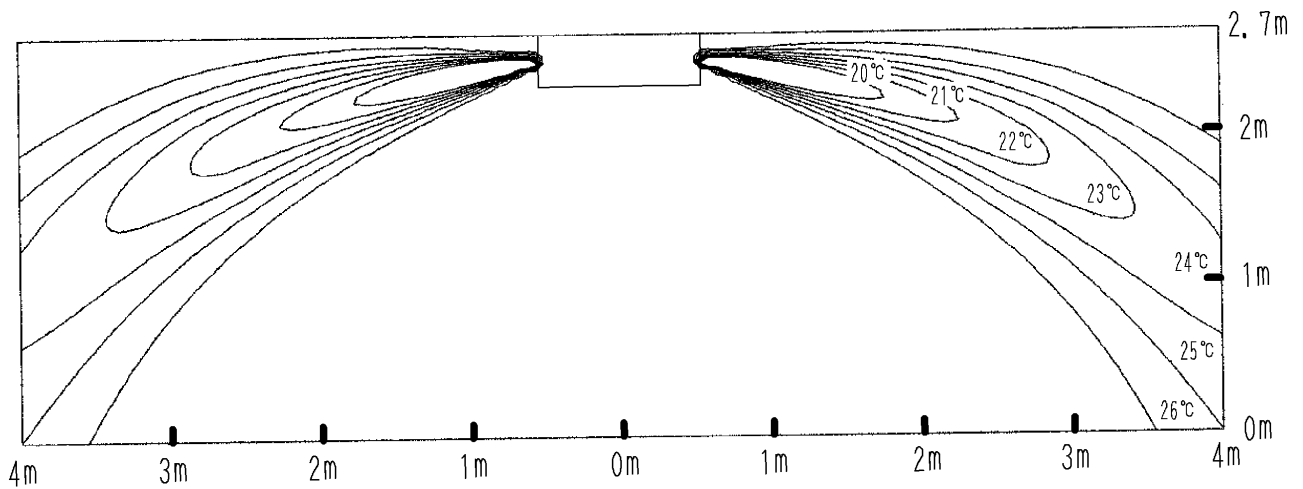
4-way discharge air flow direction: horizontal



FUQ100BUV1B

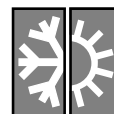
Cooling - air temperature distribution

4-way discharge air flow direction: horizontal



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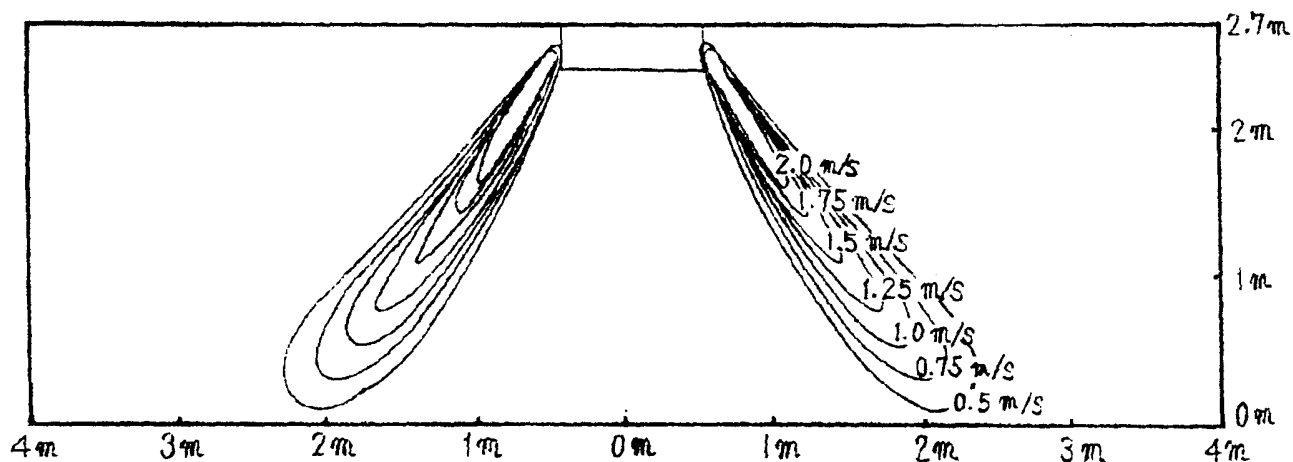
7 Air flow patterns



FUQ100BUV1B

Heating - air velocity distribution

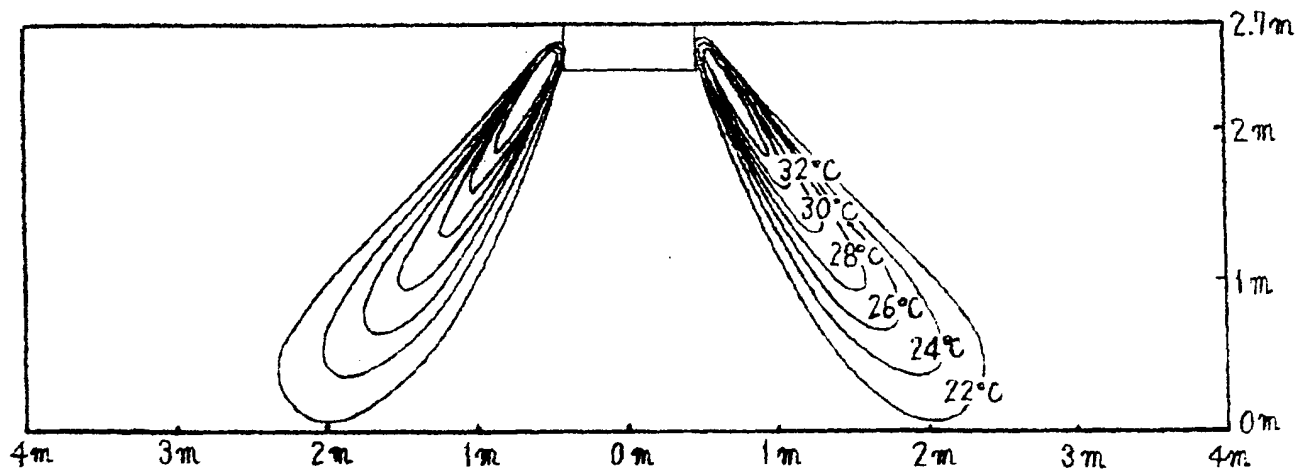
4-way discharge, air flow direction: down



FUQ100BUV1B

Heating - air temperature distribution

4-way discharge, air flow direction: down



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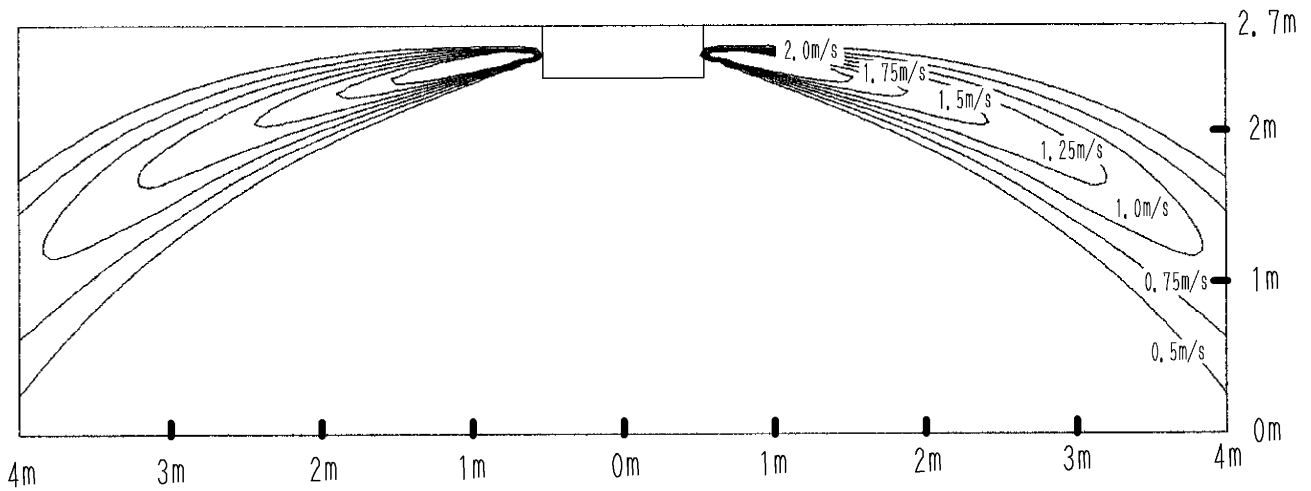
7 Air flow patterns

7

FUQ125BUV1B

Cooling - air velocity distribution

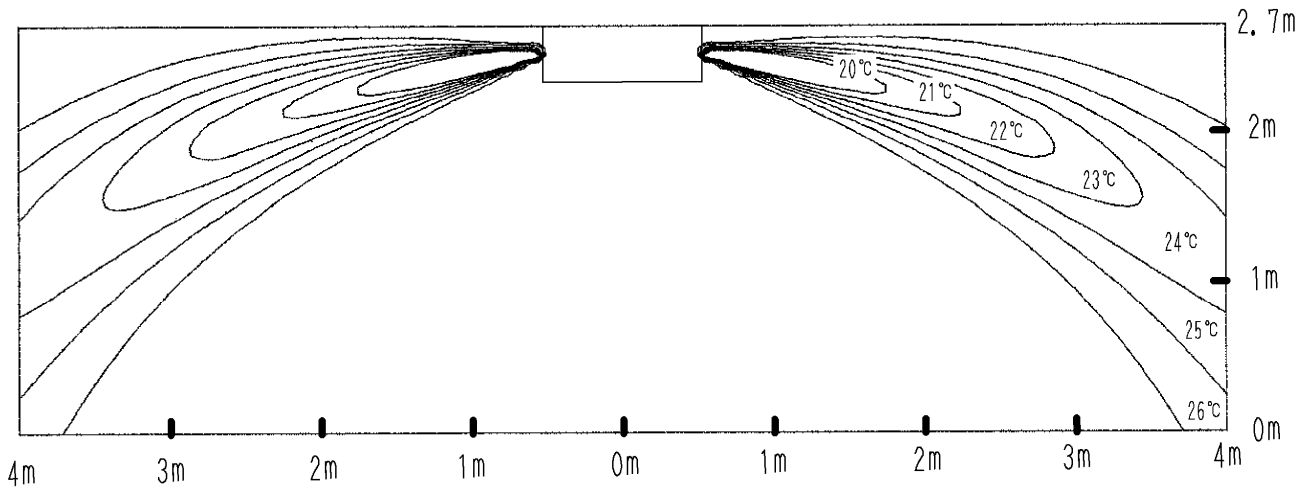
4-way discharge air flow direction: horizontal



FUQ125BUV1B

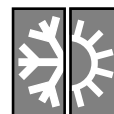
Cooling - air temperature distribution

4-way discharge air flow direction: horizontal



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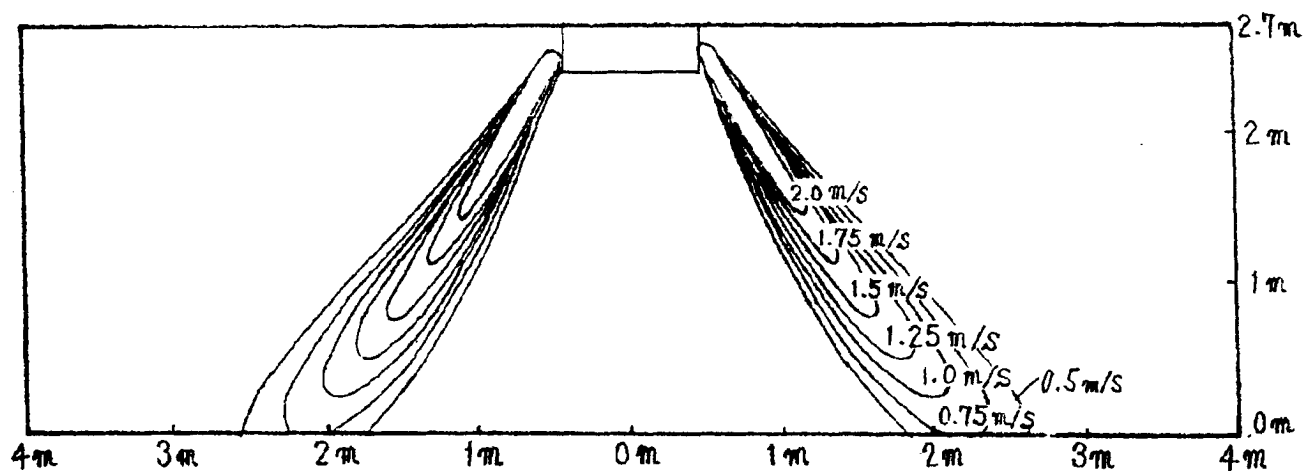
7 Air flow patterns



FUQ125BUV1B

Heating - air velocity distribution

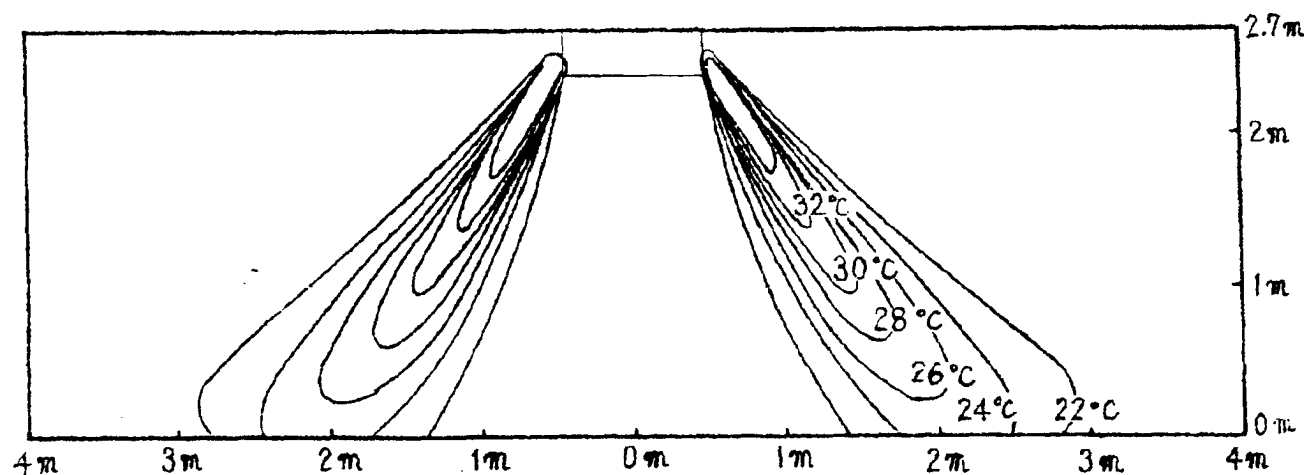
4-way discharge, air flow direction: down



FUQ125BUV1B

Heating - air temperature distribution

4-way discharge, air flow direction: down



4D014055B



8 Accessories

8-1 Standard accessories

8

8-1

Name	① Drain hose	② Clamp	③ Washer for hanging bracket	④ Clamp
Quantity	1 pc.	1 pc.	8 pcs.	6 pcs.
Shape				

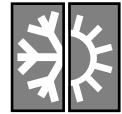
Name	⑤ Washer fixing plate	Insulation for fitting	⑧ Sealing pad	⑫ Elbow
Quantity	4 pcs.	1 of each	1 pc.	1 pc.
Shape		 ⑥ For gas pipe  ⑦ For liquid pipe		

Name	⑩ Paper pattern for installation	⑪ Blocking pad	⑫ Retainer for blocking pad	⑬ Retainer for blocking pad
Quantity	1 pc.	2 pcs.	2 pcs.	2 pcs.
Shape	Also used as packing material 			

Name	⑭ Center retainer for blocking pad	(Other) • Installation manual • Operation manual
Quantity	2 pcs.	
Shape		

8 Accessories

8-2 Optional accessories



Name of option			FUQ-BUV1B		
			71	100	125
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		
Remote control	Wired type		BRC1D527		
	Infrared type	Heat pump	BRC7C528W		
		Cooling only	BRC7C529W		
Central remote control			DCS302C51		
Unified ON/OFF control			DCS301B51		
Schedule timer			DST301B51		
Wiring adapter for electrical appendices ※1			KRP4A53		
Interface adapter for Sky Air series			DTA112B51		
Installation box for adapter PCB			KRP1B97		
Remote sensor			KRCS01-1		
Connector for forced on, forced off			EKRORO		
Electrical box with earth terminal (3 blocks)			KJB311A		
Electrical box with earth terminal (2 blocks)			KJB212A		

Note *1; installation box for adaptor PCB (KRP1B97) is necessary.

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8-2



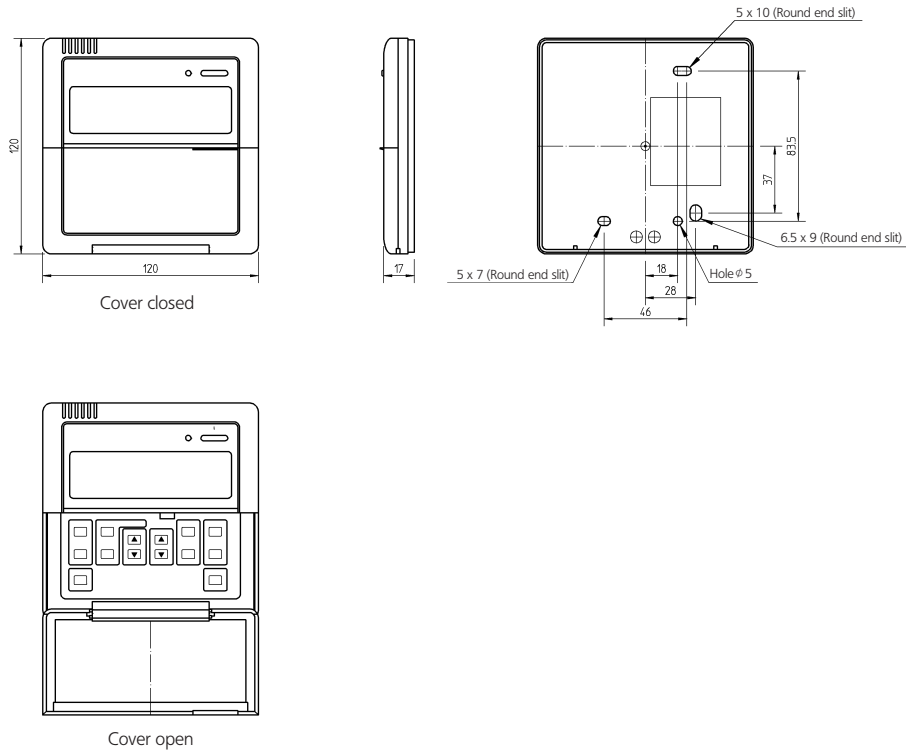
9 Control systems

9-1 Wired remote control

9

9-1

BRC1D527



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10 Safety device settings

FUQ71-100-125BUV1B

10

Model	Safety devices	FUQ71BUV1B	FUQ100BUV1B	FUQ125BUV1B
FUQ-BUV1B	Fuse	—	—	—
	Fan motor thermal fuse (°C)	—	—	—
	Fan motor thermal protector (°C)	Off: 130±5	Off: 130±5	Off: 130±5

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11 Installation

Names and functions of parts

- Ⓐ Indoor unit
- Ⓑ Outdoor unit
- Ⓒ Infrared remote control
- Ⓓ Inlet air
- Ⓔ Discharged air
- Ⓕ Air outlet
- Ⓖ Air flow flap (at air outlet)
- Ⓗ Refrigerant piping, connection electric wire
- Ⓘ Drain pipe
- ⓫ Air inlet
- The built-in air filter removes dust and dirt.
- Ⓚ Ground wire
- Wire to ground from the outdoor unit to prevent electrical shocks.
- Ⓛ Drain pumping out device (built-in)
- Drains water removed from the room during cooling

