



technical data

FUYP-B

**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 (FC); the certified data of certified models are listed in the Eurovent Directory.

Specifications are subject to change without prior notice.

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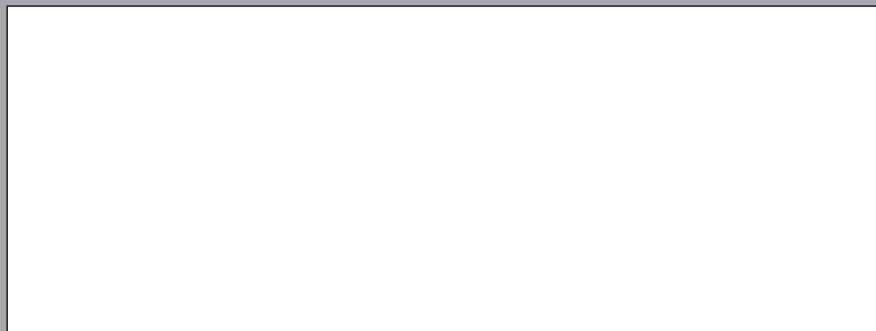




TABLE OF CONTENTS

FUYP-B

1	Features	2
2	Specifications	3
	Nominal capacity, capacity steps and nominal input	
	Technical specifications	
3	Dimensional drawings	7
4	Piping diagrams	8
5	Wiring diagrams	9
6	Sound level	10
	Sound level data	
	Sound pressure spectrum	
7	Air flow patterns	11
8	Accessories	17
	Standard accessories	
	Optional accessories	
9	Control systems	20
10	Safety device settings	21
11	Installation	21

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
- The wired remote control has following features:
 - A real time clock
 - A schedule timer:
 - Possibility to program a weekly schedule timer.
 - Possibility to program 5 actions for each day of the week.
 - Limit operation (min./max.): room temperature is controlled within adjustable upper and lower limits. This can be activated manually or by schedule timer.
 - Home leave (frost protection): during absence, the indoor temperature can be maintained at a certain level. This function can also switch the unit ON/OFF.



Optional



Optional



Optional



Heat pump



2 steps





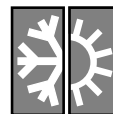
2 Specifications

NOMINAL CAPACITY and NOMINAL INPUT					
For indoor units only:					
INDOOR UNITS			FUYP71BV17	FUYP100BV17	FUYP125BV17
NOMINAL INPUT	Cooling	kW	0.18	0.289	0.289

For combination indoor + outdoor units (air cooled):					
INDOOR UNITS			FUYP71BV17	FUYP100BV17	FUYP125BV17
OUTDOOR UNITS			RP71L7V1/W1-RP71B7T1	RP100L7V1/W1-RP100B7T1	RP125L7W1-RP125B7T1
NOMINAL CAPACITY (2)	Cooling (1)	kW	7.10	10.00	12.20/12.50
NOMINAL INPUT	Cooling	kW	2.71/2.65/2.64	3.83/3.83/3.61	4.59/4.66
EER			2.62/2.68/2.69	2.61/2.61/2.77	2.66/2.68
ENERGY LABEL	Cooling		D/D/D	D/D/D	D/D
ANNUAL ENERGY CONSUMPTION	Cooling	kWh	1,355/1,325/1,320	1,915/1,915/1,805	2,295/2,330

TECHNICAL SPECIFICATIONS						
INDOOR UNITS				FUYP71BV17	FUYP100BV17	FUYP125BV17
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	43	44
		low	dB(A)	35	38	39
	Sound power (cooling/heating) (4)	high	dB(A)	56	59	60
		low	dB(A)	51	54	55
FAN	Air flow rate	high	m ³ /min	19	29	32
		low	m ³ /min	14	21	23
	Speed	steps	2 steps			
	Type	Turbo fan				
	Qty x model	1 x QTS48A10M		1 x QTS50B15M		
Qty x motor output	W	1 x 45	1 x 90	1 x 90		
HEAT EXCHANGER	Type	Cross fin coil (Multi lower fins and Hi-XA 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)	Φ9.5 (flare)	Φ9.5 (flare)	
	gas	mm	Φ15.9 (flare)	Φ19.1 (flare)	Φ19.1 (flare)	
	drain	mm	I.D. Φ20	I.D. Φ20	I.D. Φ20	
	drain	mm	O.D. Φ26	O.D. Φ26	O.D. Φ26	
INSULATION MATERIAL	Heat insulation	Heat resistant foamed polyethylene, regular foamed polyethylene				

For outdoor units	Pair application	See chapter RP-B7
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2 Specifications

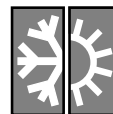
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ELECTRICAL SPECIFICATIONS				FUYP71BV17	FUYP100BV17	FUYP125BV17
For indoor units only:						
CURRENT	Nominal running current	cooling	A	See chapter RP-L7/B7: Electrical data		
	Maximum running current	cooling	A			
POWER SUPPLY				V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~
	Frequency			Hz	50	50
	Voltage			V	230	230
For combination indoor units + outdoor units:						
				FUYP71BV17	FUYP100BV17	FUYP125BV17
				RP71L7V1/W1-RP71B7T1	RP100L7V1/W1/RP100B7T1	RP125L7W1-RP125B7T1
CURRENT	Nominal running current	cooling	A	See chapter RP-L7/B7: Electrical data		
	Maximum running current	cooling	A			
	Starting current	cooling	A			

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NOTES

- 1 Nominal cooling capacities are based on: indoor temperature: 27°CDB/19°CWB * outdoor temperature: 35°CDB * equivalent refrigerant piping length: 7.5m * level difference: 0m
- 2 Capacities are net, including a deduction for indoor fan motor heat.
- 3 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.
- 4 The sound power level is an absolute value indicating the "power" which a sound source generates.
- 5 Energy label: scale from A (most efficient) to G (less efficient).
- 6 Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions).



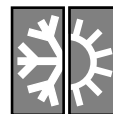
2 Specifications

2

NOMINAL CAPACITY and NOMINAL INPUT					
For indoor units only:					
INDOOR UNITS			FUYP71BV17	FUYP100BV17	FUYP125BV17
NOMINAL INPUT	Cooling	kW	0.18	0.289	0.289
	Heating	kW	0.16	0.269	0.269

For combination indoor + outdoor units (air cooled):					
INDOOR UNITS			FUYP71BV17	FUYP100BV17	FUYP125BV17
OUTDOOR UNITS			RYP71L7V1/W1	RYP100L7V1/W1	RYP125L7W1
NOMINAL CAPACITY (3)	Cooling (1)	kW	7.10	10.00	12.20
	Heating (2)	kW	8.00	11.00	14.00
NOMINAL INPUT	Cooling	kW	2.70/2.65	3.83/3.78	4.52
	Heating	kW	2.48/2.34	3.51/3.48	4.35
EER			2.63/2.68	2.61/2.65	2.70
COP			3.23/3.42	3.13/3.16	3.22
ENERGY LABEL	Cooling		D/D	D/D	D
	Heating		C/B	D/D	C
ANNUAL ENERGY CONSUMPTION	Cooling	kWh	1,350/1,325	1,890/1,915	2,260

TECHNICAL SPECIFICATIONS						
INDOOR UNITS				FUYP71BV17	FUYP100BV17	FUYP125BV17
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) (4)	high	dB(A)	40/40	43/43	44/44
		low	dB(A)	35/35	38/38	39/39
	Sound power (cooling/heating) (5)	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 model			1 x QTS48A10M	1 x QTS50B15M	
Qty x motor output	W		1 x 45	1 x 90	1 x 90	
HEAT EXCHANGER	Type	Cross fin coil (Multi lower fins and Hi-XA 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)	Φ9.5 (flare)	Φ9.5 (flare)
	gas	mm		Φ15.9 (flare)	Φ19.1 (flare)	Φ19.1 (flare)
	drain	mm		I.D. Φ20	I.D. Φ20	I.D. Φ20
	drain	mm		O.D. Φ26	O.D. Φ26	O.D. Φ26
INSULATION MATERIAL	Heat insulation	Heat resistant foamed polyethylene, regular foamed polyethylene				
For outdoor units	Pair application	See chapters RYP-L7				



2 Specifications

2

ELECTRICAL SPECIFICATIONS				FUYP71BV17	FUYP100BV17	FUYP125BV17
For indoor units only:						
CURRENT	Nominal running current	cooling	A	See chapter RYP-L7: Electrical data		
		heating	A			
	Maximum running current	cooling	A			
		heating	A			
For combination indoor units + outdoor units:				FUYP71BV17 RYP71L7V1/W1	FUYP100BV17 RYP100L7V1/W1	FUYP125BV17 RYP125L7W1
CURRENT	Nominal running current	cooling	A	See chapter RYP-L7: Electrical data		
		heating	A			
	Maximum running current	cooling	A			
		heating	A			
	Starting current	cooling	A			
		heating	A			
For indoor units only:				FUYP71BV17	FUYP100BV17	FUYP125BV17
POWER SUPPLY				V1	V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~	1~
	Frequency		Hz	50	50	50
	Voltage		V	230	230	230

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NOTES

- 1 Nominal cooling capacities are based on: indoor temperature 27°CDB/19°CWB * outdoor temperature 35°CDB * refrigerant piping length: 7.5m * level difference: 0m.
- 2 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.
- 3 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- 4 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.
- 5 The sound power level is an absolute value indicating the "power" which a sound source generates.
- 6 Energy label: scale from A (most efficient) to G (less efficient).
- 7 Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions).



3 Dimensional drawings

3

FUYP71B unit (mm)

Drain connection location for upper piping

Drain connection location for rear piping

※ Drain pipe can be raised up to 350mm from the top surface of the product.

Brand name plate (note 2)

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

Required space

※ 1500 mm or more

※ 1500 mm or more

※ 1500 mm or more

※ When closing the discharge grill, the required space is 30mm or more. (Note 3)

Suspension bolt
 4-M8-M10
 Height of suspension bracket

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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FUYP100-125B unit (mm)

Drain connection location for upper piping

Drain connection location for rear piping

※ Drain pipe can be raised up to 350mm from the top surface of the product.

Brand name plate (note 2)

1 Liquid pipe connection - ϕ 9.5 flare
 2 Gas pipe connection ϕ 19.1 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

Required space

※ 1500 mm or more

※ 1500 mm or more

※ 1500 mm or more

※ When closing the discharge grill, the required space is 30mm or more. (Note 3)

Suspension bolt
 4-M8-M10
 Height of suspension bracket

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.

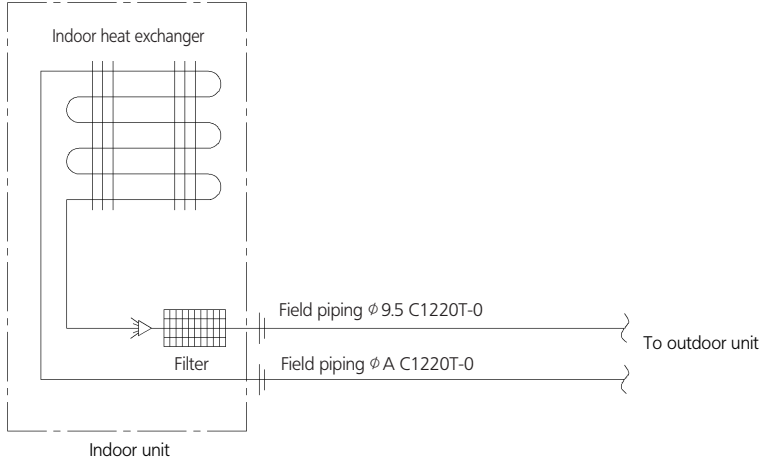
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4 Piping diagrams

4

FUYP71-125B



Refrigerant pipe connection port diameters

Model	A
FUYP71	φ 15.9
FUYP100•125	φ 19.1

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

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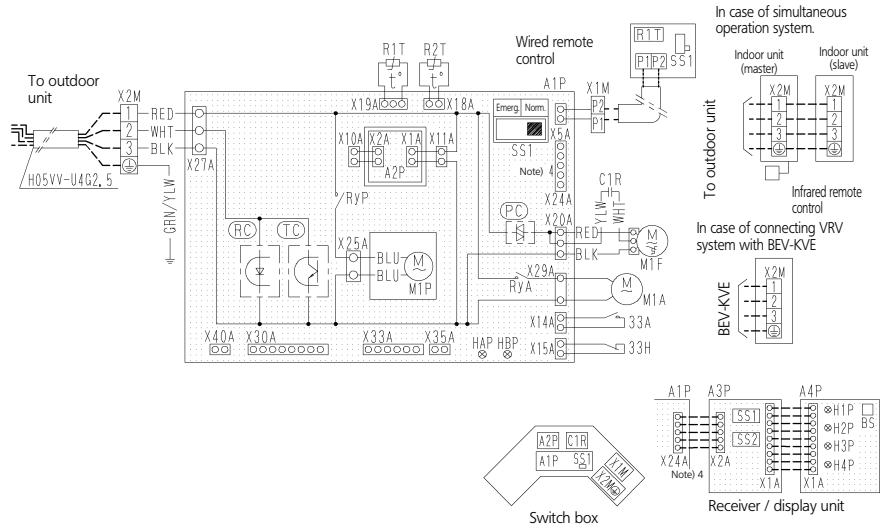


5 Wiring diagrams

FUYP71-125B

Notes

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



1-RED, 2-WHITE, 3-BLACK	R1T	Thermistor (air)
33A	R2T	Thermistor (coil)
33H	R1A	Magnetic relay (M1A)
A1P	R2A	Magnetic relay (M1F)
A2P	RP	Selector switch (emergency)
(Transformer) 230V(16V)	SS1	Terminal strip
C1R	X1M	Terminal strip
Capacitor (M1F)	X2M	Terminal strip
HAP	(RC)	Signal receiver circuit
Light emitting diode (service monitor green)	(TC)	Signal transmission circuit
HBP	(PC)	Phase control circuit
Light emitting diode (service monitor green)	Wired remote control	
M1A	R1T	Thermistor (air)
Motor (swing flap)	SS1	Selector switch (main/sub)
M1F		
Motor (indoor fan)		
M1P		
Motor (drain pump)		
Q1F		
Thermo switch (M1F embedded)		

A3P	Printed circuit board
A4P	Printed circuit board
BS	Push button (on/off)
H1P	Light emitting diode (service monitor red)
H2P	Light emitting diode (service monitor green)
H3P	Light emitting diode (service monitor red)
H4P	Light emitting diode (service monitor orange)
SS1	Selector switch (main/sub)
SS2	Selector switch (wireless address set)

Receiver / display unit (attached to infrared remote controller)	Connector for optional parts
X30A	Connector (interface adapter for sky air series)
X33A	Connector (adapter for wiring)
X35A	Connector (group control adapter)
X40A	Connector
	ON/OFF input from outside

A2P	CTR	SS1	SS2	X24A	X2A	X1A	H1P	H2P	H3P	H4P	BS
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Switch box

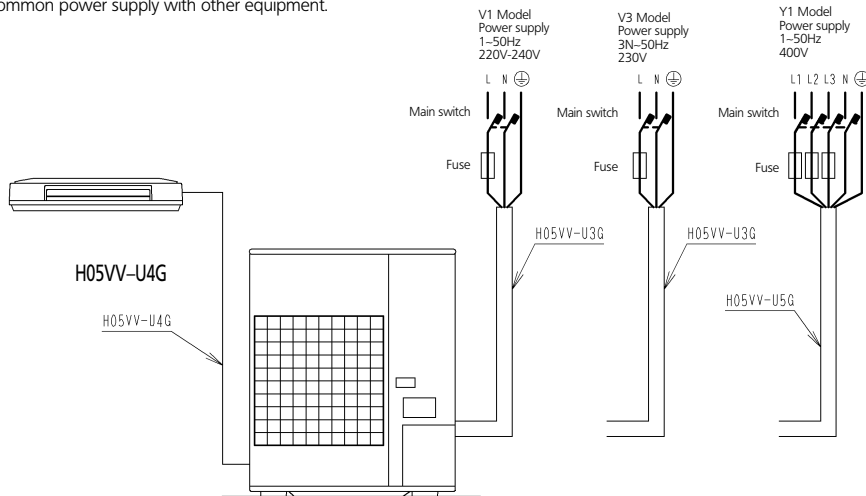
Receiver / display unit

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FUYP71-125B

NOTES

- Line voltage wiring (solid line), Control circuit wiring (dashed line)
- All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
- Use copper conductors only.
- See wiring diagrams for details.
- Install fuse and mainswitch for safety.
- All field wiring and components must be provided by a licensed electrician.
- The unit shall be grounded in compliance with the applicable local and national codes.
- 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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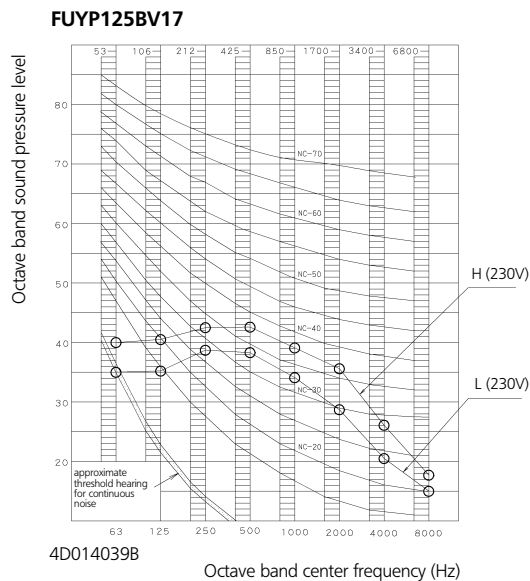
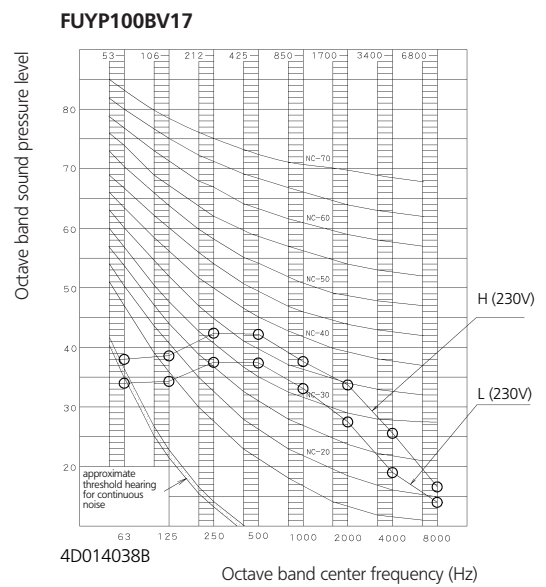
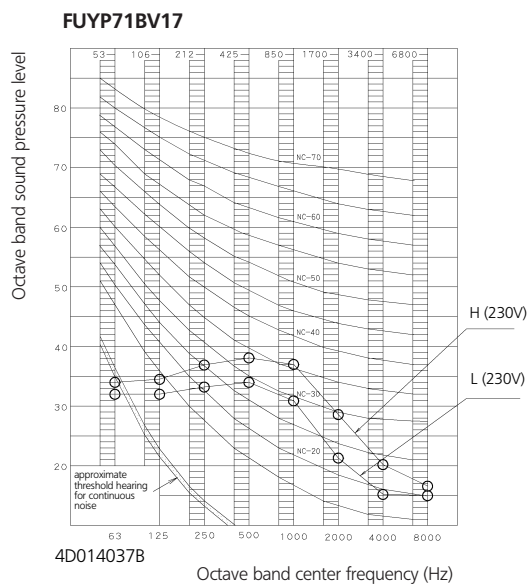
6 Sound level

6-1 Sound level data

6
6-1

Model	Sound pressure level			Sound power level	
	230V				
	50Hz				
	Cooling (H/L)	Heating (H/L)	Measuring location	Cooling (H/L)	Heating (H/L)
FUYP71BV17	40/35	40/35		56/51	56/51
FUYP100BV17	43/38	43/38		59/54	59/54
FUYP125BV17	44/39	44/39		60/55	60/55

6-2 Sound pressure spectrum



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.

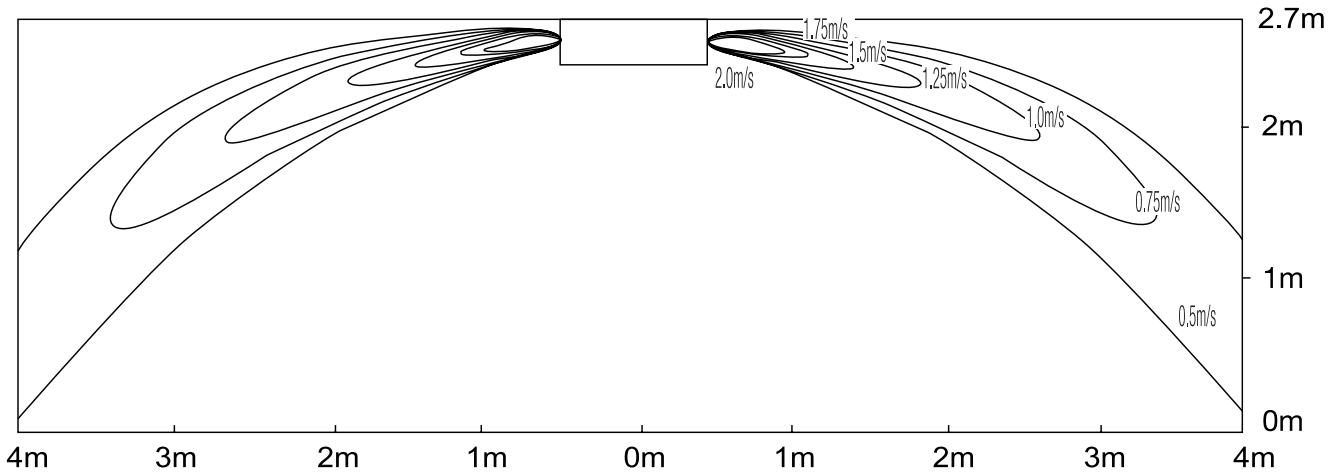


7 Air flow patterns

FUYP71BV17

Cooling - air velocity distribution

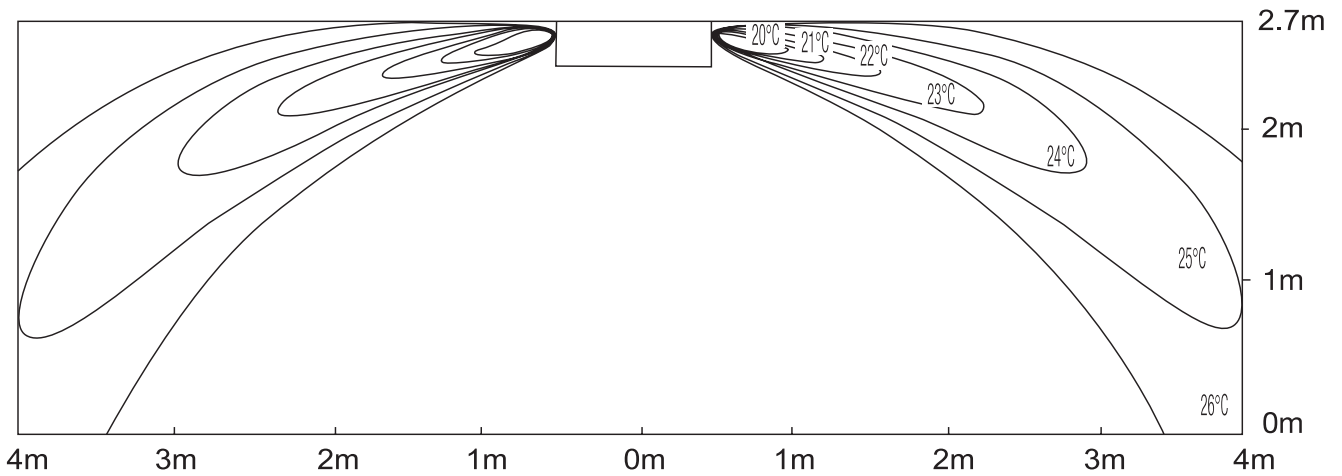
4-way discharge air flow direction: horizontal



FUYP71BV17

Cooling - air temperature distribution

4-way discharge air flow direction: horizontal



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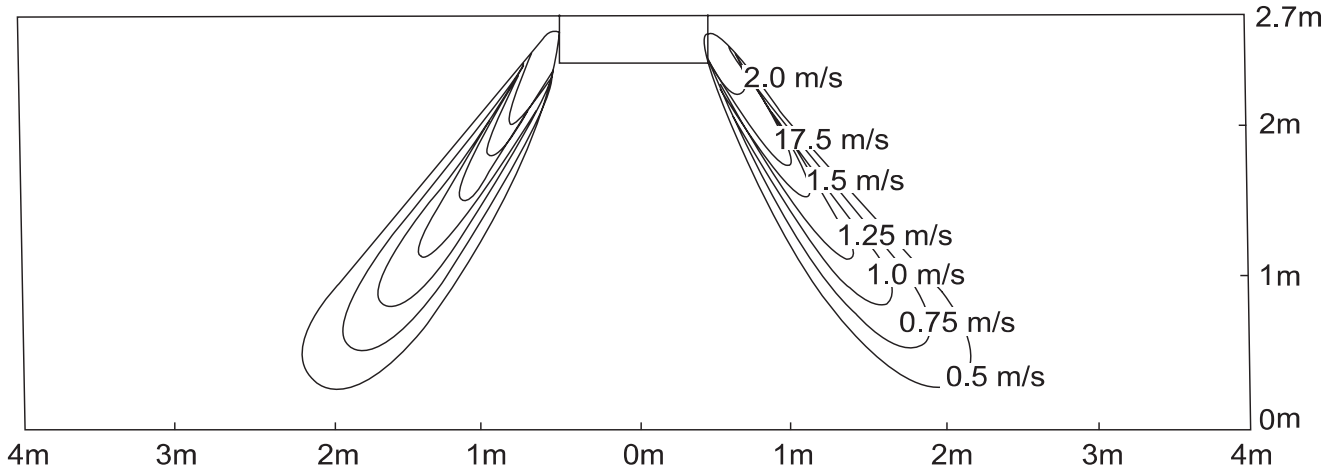


7 Air flow patterns

7 FUYP71BV17

Heating - air velocity distribution

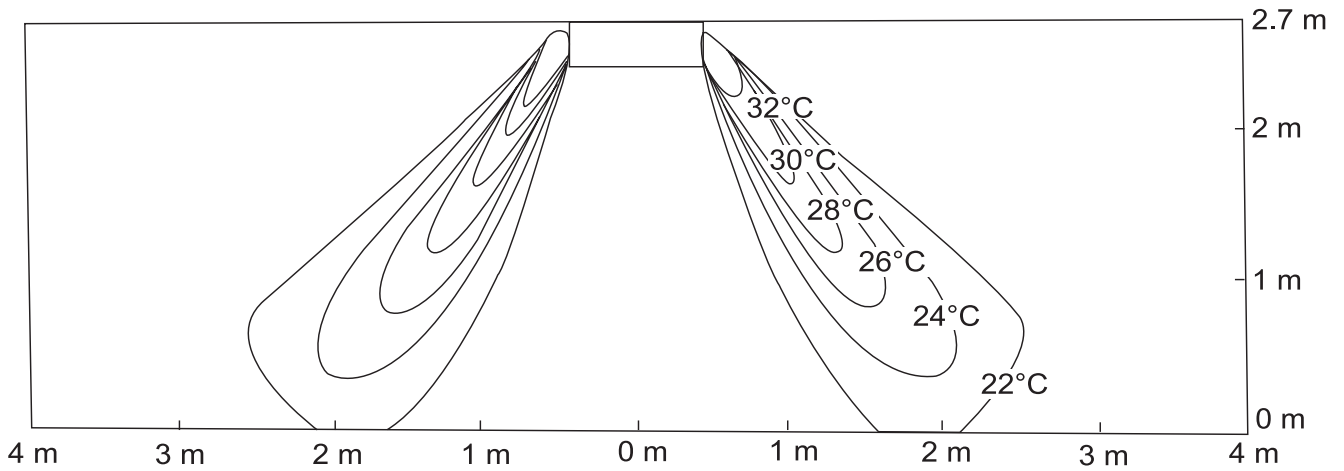
4-way discharge, air flow direction: down



FUYP71BV17

Heating - air temperature distribution

4-way discharge, air flow direction: down



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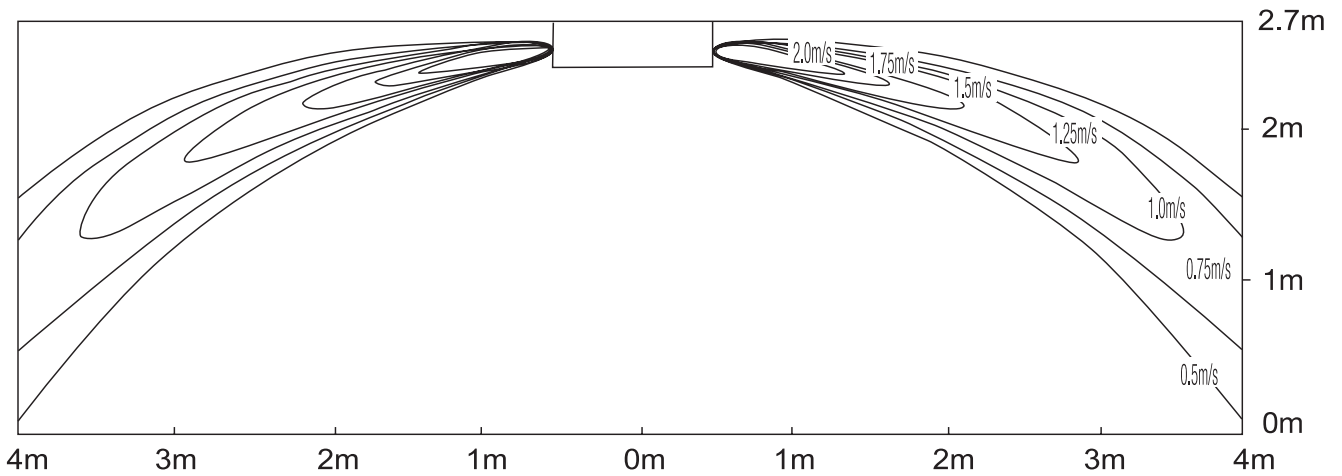
7 Air flow patterns

7

FUYP100BV17

Cooling - air velocity distribution

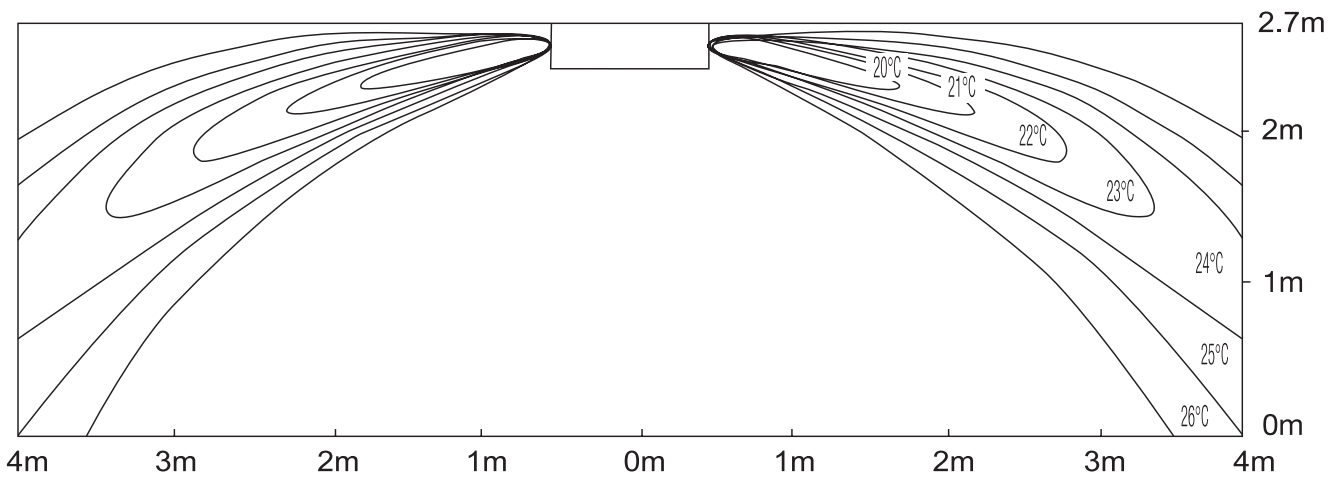
4-way discharge air flow direction: horizontal



FUYP100BV17

Cooling - air temperature distribution

4-way discharge air flow direction: horizontal



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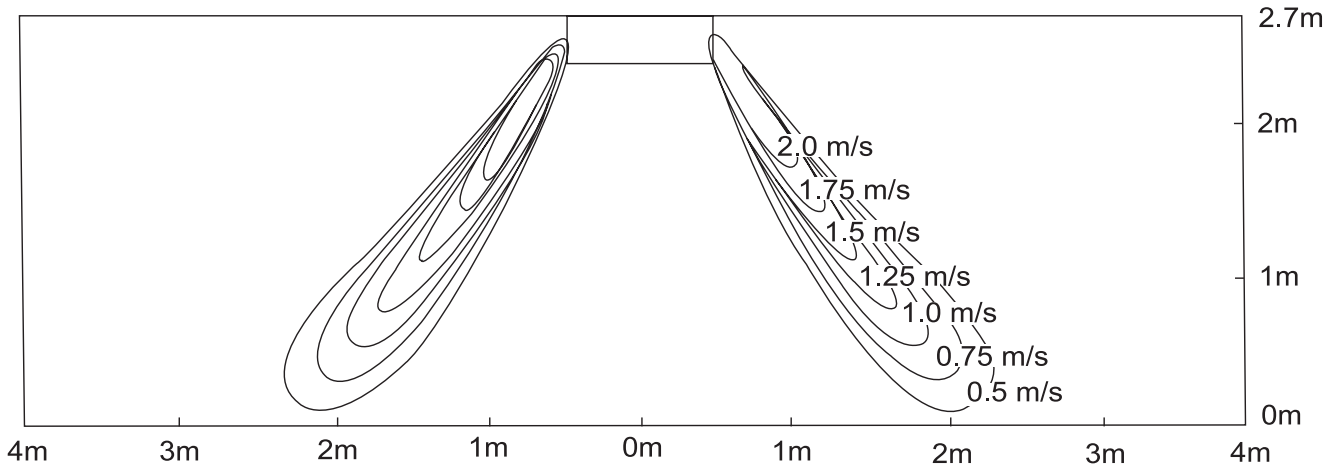


7 Air flow patterns

7 FUYP100BV17

Heating - air velocity distribution

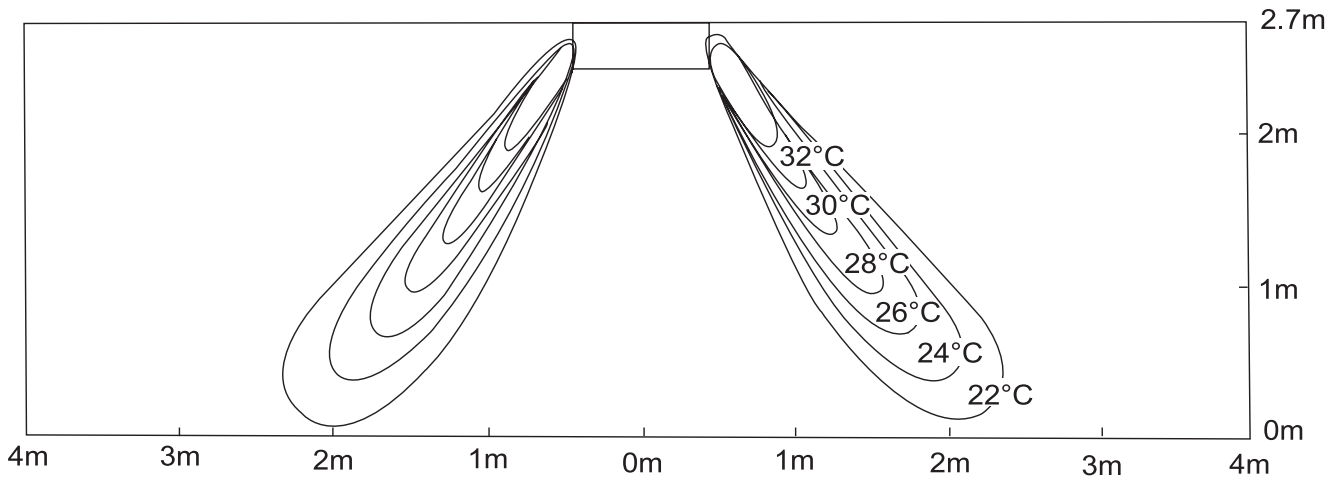
4-way discharge, air flow direction: down



FUYP100BV17

Heating - air temperature distribution

4-way discharge, air flow direction: down



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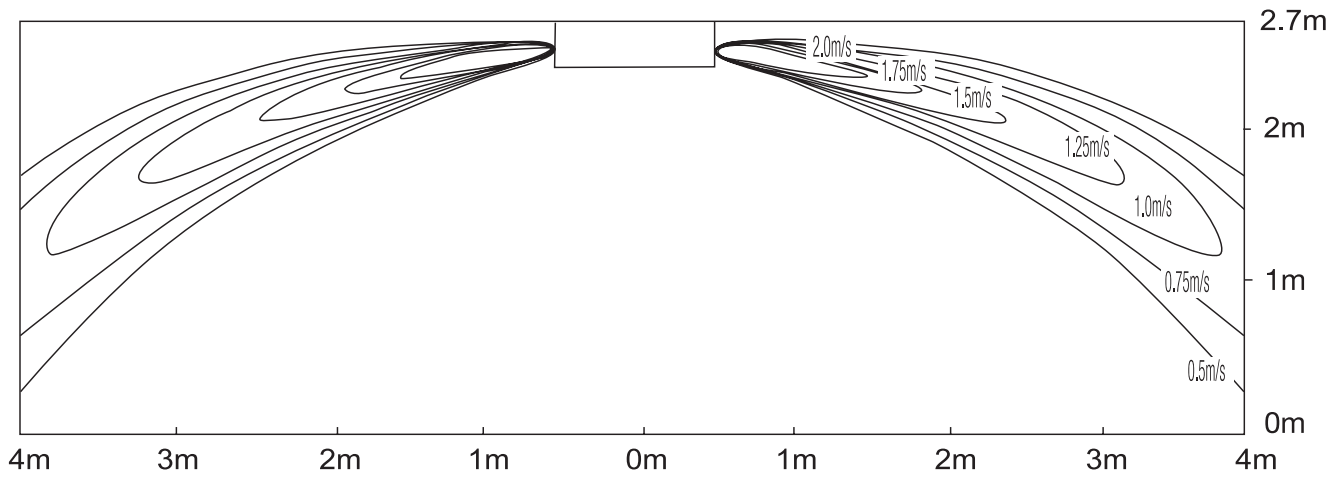
7 Air flow patterns

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FUYP125BV17

Cooling - air velocity distribution

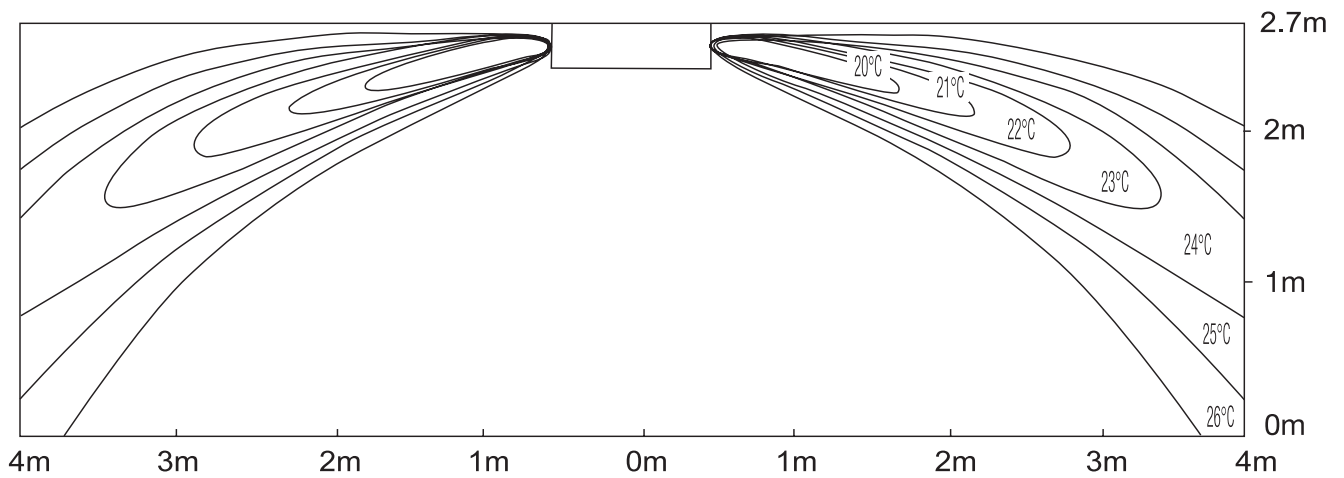
4-way discharge air flow direction: horizontal



FUYP125BV17

Cooling - air temperature distribution

4-way discharge air flow direction: horizontal



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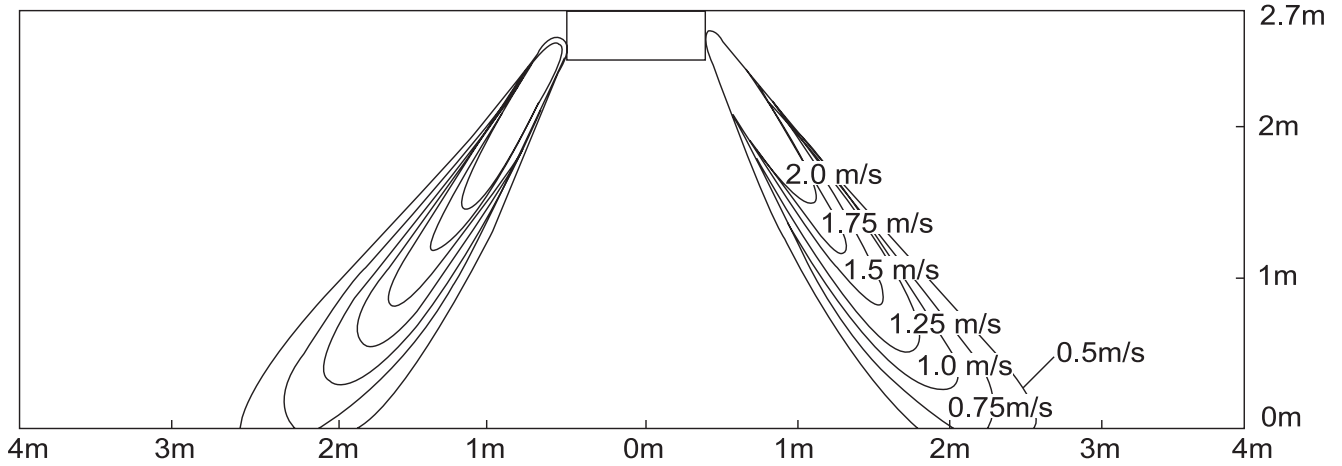


7 Air flow patterns

7 FUYP125BV17

Heating - air velocity distribution

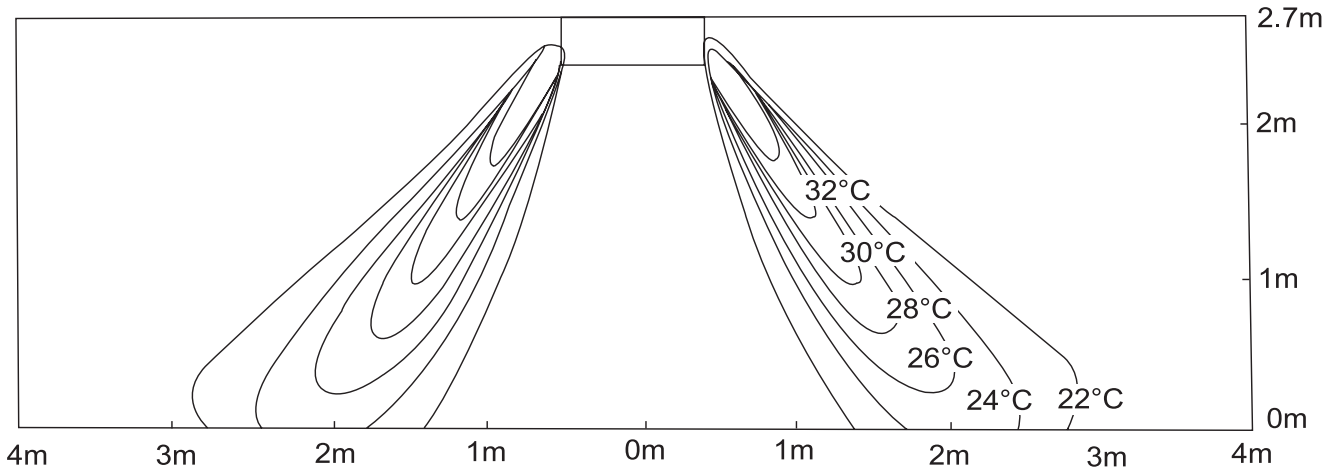
4-way discharge, air flow direction: down



FUYP125BV17

Heating - air temperature distribution

4-way discharge, air flow direction: down



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
8 Accessories


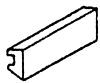


8-1 Standard accessories


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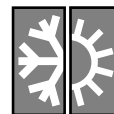
8-1

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

8
8-2

Name of option		Remark	FUYP-BV17		
			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			KHFJ49F80	KHFJ49F140	
Remote control	Wired type		BRC1D527		
	Infrared type	Heat pump	BRC7C528W		
		Cooling only	BRC7C529W		
Central remote control			DCS302C51		
Unified ON/OFF control			DCS302B51		
Schedule timer			DST301B51		
Wiring adapter (hour meter) *1			EKRP1B2		
Group control adapter *2			KRP4A53		
Interface adapter for Sky Air series			DTA102A52		
Installation box for adaptor PCB			KRP1B97		
Remote sensor			KRCS01-1		
Remote ON/OFF, forced OFF			EKRORO		

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

*2 Possibility to connect an hour meter. This part should not be installed inside the equipment.

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8 Accessories

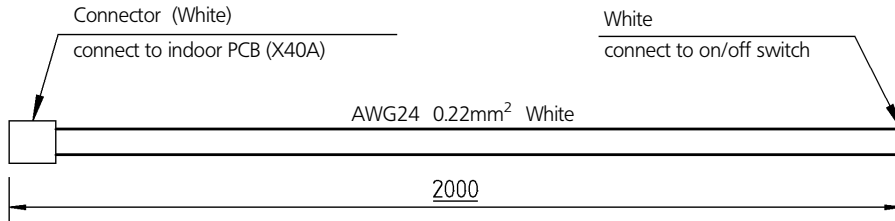
8-2 Optional accessories

Specifications EKRORO

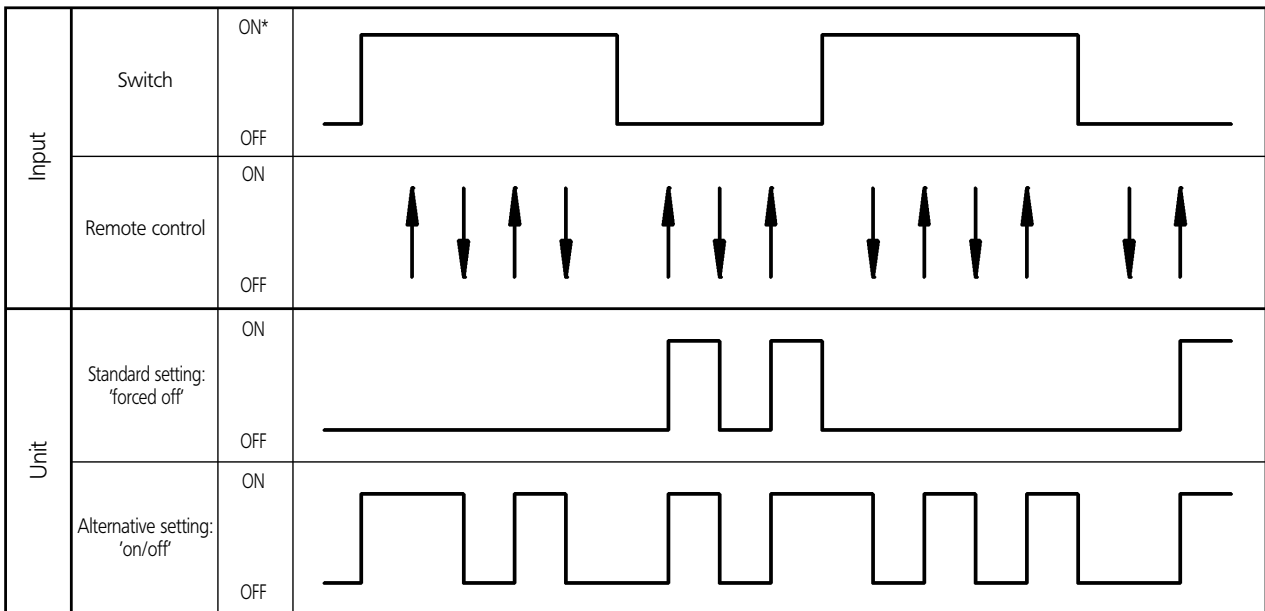
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8-2

Wire specifications



Operating method



* Input 'ON' = closed contact.

Forced off	On/off operation
Input 'on' stops operation + disables control	Input off → on: starts operation, remote control is still enabled.
Input 'off' enables control	Input on → off: stops operation, remote control is still enabled.

Selection of 'FORCED OFF' and 'ON/OFF' operation

Setting	Mode NO	First code NO	Second code NO
Forced off	12 (22)	1	01
On/off operation			02

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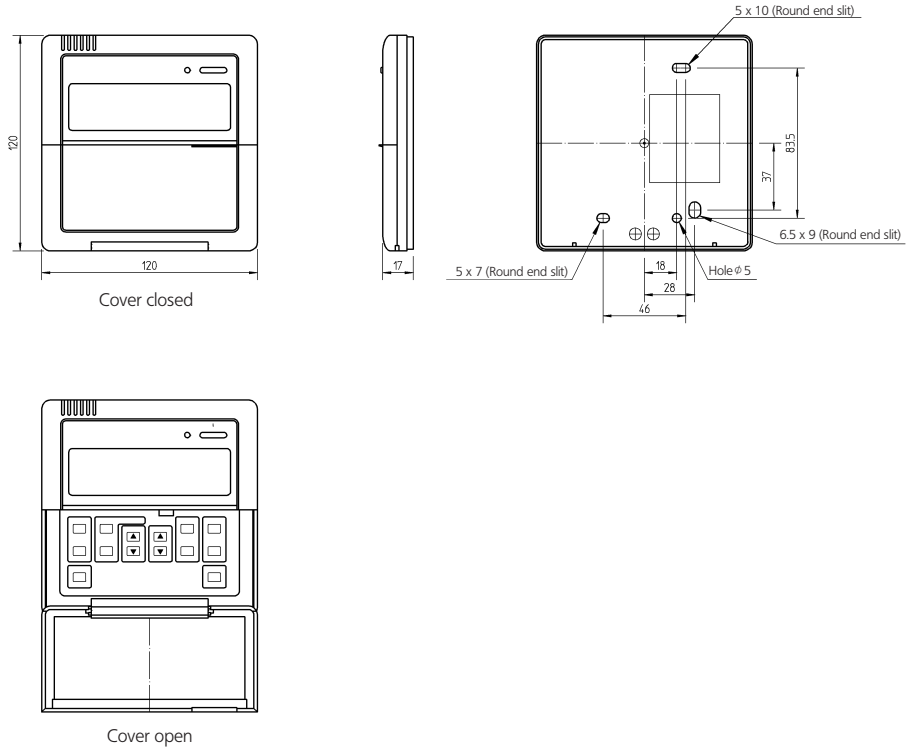


9 Control systems

9-1 Wired remote control

9
9-1

BRC1D527



3TW23651-2



10 Safety device settings

10

Model	Safety devices	FUYP71BV17	FUYP100BV17	FUYP125BV17
FUYP-BV17	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
- Ⓢ 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

