



# technical data

FAYP-L/B

Wall Mounted Unit



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. is participating in the EUROVENT Certification Programme. Products are as listed in the EUROVENT Directory of Certified Products.

Specifications are subject to change without prior notice.

## **DAIKIN EUROPE N.V.**

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# TABLE OF CONTENTS

## FAYP-L/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 .....	11
	Sound level data	
	Sound pressure spectrum	
7	Air flow patterns .....	12
8	Accessories .....	16
	Standard accessories	
	Optional accessories	
9	Control systems .....	18
10	Safety device settings .....	19
11	Installation .....	19

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





# 1 Features

1

- Ideal for shops, restaurants or offices requiring maximum floor space for furniture and fittings
- The 71 class has a new modern casing: it is very compact (290mm height - 1050mm width) and very lightweight (only 13 kg).
- Fits neatly on a wall
- Automatic air flow director ensures uniform air flow and temperature distribution
- The flap of the unit is closed when not operating.
- The front panel of the new casing is easy removable and washable.
- Extremely quiet in operation both indoors and outdoors
- For equal distribution in larger rooms, up to 3 indoor units can be connected to 1 outdoor. They are operated from 1 remote control
- These indoor units can also be connected to the new sky air super inverter RZP-D.
- The new wired remote control has following features:
  - A real time clock
  - A schedule timer:
    - \* Possibility to program a weekly schedule
    - \* Possibility to program 5 actions for each day of the week
  - 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



2

NOMINAL CAPACITY and NOMINAL INPUT				
For indoor units only:				
INDOOR UNITS		FAYP71LV1		FAYP100BV1
NOMINAL INPUT	Cooling	kW	0.068	0.101

For combination indoor + outdoor units (air cooled):				
INDOOR UNITS		FAYP71LV1		FAYP100BV1
OUTDOOR UNITS		RP71L7V1/W1/RP71B7T1		RP100L7V1/W1 / RP100B7T1
NOMINAL CAPACITY (2)	Cooling (1)	kW	7.10	10.00
NOMINAL INPUT	Cooling	kW	2.75/2.65/2.65	3.62/3.56/3.51
EER			2.58/2.68/3.68	2.76/2.81/2.85
ENERGY LABEL	Cooling		E/D/D	D/C/C
ANNUAL ENERGY CONSUMPTION	Cooling	kWh	1,375/1,325/1,325	1,810/1,780/1,755

TECHNICAL SPECIFICATIONS					
INDOOR UNITS		FAYP71LV1		FAYP100BV1	
DIMENSIONS	Unit	H	mm	290	
		W	mm	1,050	
		D	mm	230	
WEIGHT	Unit	kg	13	26	
MATERIAL	Unit			Resin	
COLOUR	Unit			White	
SOUND LEVEL	Sound pressure (3)	high	dB(A)	43	
		low	dB(A)	37	
	Sound power (4)	high	dB(A)	59	61
		low	dB(A)	53	57
FAN	Air flow rate	high	m <sup>3</sup> /min	19	
		low	m <sup>3</sup> /min	15	
	Speed	steps		2 steps	
	Type			Cross flow fan	
	Qty x model			1 x QCL9686M	1 x (QCL1163MA+QCL1163MB)
Qty x motor output	W		1 x 43	1 x 49	
HEAT EXCHANGER	Type			Cross fin coil (Multi lower fins and HI-XA tubes)	
	Rows x stages x fin pitch	mm		2 x 16 x 1.4	
	Face area	m <sup>2</sup>		0.289	
PIPING CONNECTIONS	liquid	mm		φ9.5(flare)	
		gas	mm	φ15.9(flare)	
		drain	mm	VP13, I.D. φ13	
		drain	mm	VP13, O.D. φ18	
INSULATION MATERIAL	Heat insulation			Foamed polystyrene/foamed polyethylene	

For outdoor units	Pair application		See chapter RP-L7/B7
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## 2 Specifications



### 2

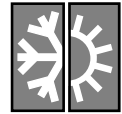
ELECTRICAL SPECIFICATIONS				
<b>For indoor units only:</b>				
		<b>FAYP71LV1</b>		<b>FAYP100BV1</b>
CURRENT	Nominal running current	cooling	A	See chapter RP-L7/B7: Electrical data
	Max. running current	cooling	A	
<b>For combination indoor units + outdoor units:</b>				
		<b>FAYP71LV1</b>		<b>FAYP100BV1</b>
		<b>RP71B7V1/W1/T1</b>		<b>RP100B7V1/W1/T1</b>
CURRENT	Nominal running current	cooling	A	See chapter RP-L7/B7: Electrical data
	Maximum running current	cooling	A	
	Starting current	cooling	A	
<b>For indoor units only:</b>				
<b>POWER SUPPLY</b>		<b>FAYP71LV1</b>		<b>FAYP100BV1</b>
		V1		V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase	1~		1~
	Frequency	Hz	50	50
	Voltage	V	230	230

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### NOTES

- 1 Nominal cooling capacities are based on: indoor temperature 27°CDB/19.5°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 in an anechoic room 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		FAYP71LV1		FAYP100BV1
NOMINAL INPUT	Cooling	kW	0.068	0.101
	Heating	kW	0.068	0.101

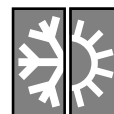
For combination indoor + outdoor units (air cooled):				
INDOOR UNITS		FAYP71LV1		FAYP100BV1
OUTDOOR UNITS		RYP71L7V1/W1		RYP100L7V1/W1
NOMINAL CAPACITY (3)	Cooling (1)	min.-nom.-max. kW	7.10	7.10
	Heating (2)	min.-nom.-max. kW	8.00	10.80
NOMINAL INPUT	Cooling	min.-nom.-max. kW	2.65/2.53	3.64/3.52
	Heating	min.-nom.-max. kW	2.48/2.34	3.80/3.66
EER			2.68/2.81	2.75/2.84
COP			3.23/3.42	2.84/2.95
ENERGY LABEL	Cooling		D/C	D/C
	Heating		C/B	D/D
ANNUAL ENERGY CONSUMPTION	Cooling	kWh	1,325/1,265	1,820/1,760

INDOOR UNITS		FAYP71LV1		FAYP100BV1
OUTDOOR UNITS		RZP71DV1		RZP100DV1
NOMINAL CAPACITY (3)	Cooling (1)	kW	3.29~7.12~7.99	5.00~10.00~11.39
	Heating (2)	kW	3.48~8.02~9.00	5.65~11.19~12.82
NOMINAL INPUT	Cooling	kW	0.61~2.21~2.70	0.84~2.80~3.36
	Heating	kW	0.65~2.49~2.96	1.13~3.40~4.15
EER			3.22	3.57
COP			3.22	3.29
ENERGY LABEL	Cooling		A	A
	Heating		C	C
ANNUAL ENERGY CONSUMPTION	Cooling	kWh	1,105	1,400

TECHNICAL SPECIFICATIONS					
INDOOR UNITS		FAYP71LV1		FAYP100BV1	
DIMENSIONS	Unit	H	mm	290	
		W	mm	1,050	
		D	mm	230	
WEIGHT	Unit	kg	13	26	
MATERIAL	Unit			Resin	
COLOUR	Unit			White	
SOUND LEVEL	Sound pressure (cooling/heating) (4)	high	dB(A)	43/43	
		low	dB(A)	37/37	
	Sound power (cooling/heating) (5)	high	dB(A)	59/59	61/61
		low	dB(A)	53/53	57/57
FAN	Air flow rate	high	m <sup>3</sup> /min	19/19	
		low	m <sup>3</sup> /min	15/15	
	Speed	steps		2 steps	
	Type			Cross flow fan	
	Qty x model			1 x QCL9686M	1 x (QCL1163MA+QCL1163MB)
Qty x motor output	W		1 x 43	1 x 49	
HEAT EXCHANGER	Type		Cross fin coil (Multi lower fins and HI-XA tubes)	Cross fin coil (Multi lower fins and N-hiX tubes)	
	Rows x stages x fin pitch	mm	2 x 16 x 1.4	2 x 12 x 1.4	
	Face area	m <sup>2</sup>	0.289	0.332	
PIPING CONNECTIONS	liquid	mm		φ9.5flare	
		mm	φ15.9flare	φ19.1flare	
	drain	mm	VP13, I.D. φ13	VP20, I.D. φ20	
		mm	VP13, O.D. φ18	VP20, O.D. φ26	
INSULATION MATERIAL	Heat insulation			Foamed polystyrene/foamed polyethylene	

For outdoor units	Pair application	See chapter RYP-L7/B7, RZP-D
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## 2 Specifications



2

ELECTRICAL SPECIFICATIONS				FAYP71LV1	FAYP100BV1			
<b>For indoor units only:</b>								
CURRENT	Nominal running current	cooling	A	See chapter RYP-L7/B7: Electrical data				
		heating	A					
	Max. running current	cooling	A					
		heating	A					
<b>For combination indoor units + outdoor units:</b>				FAYP71LV1 RYP71B7V1/W1	FAYP100BV1 RYP100B7V1/W1			
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					
	<b>For combination indoor units + outdoor units:</b>					FAYP71LV1 RZP71DV1	FAYP100BV1 RZP100DV1	
	CURRENT	Nominal running current	cooling			A	See chapter RZP-D: Electrical data	
heating			A					
Maximum running current		cooling	A					
		heating	A					
Starting current		cooling	A					
		heating	A					
<b>For indoor units only:</b>				FAYP71LV1	FAYP100BV1			
POWER SUPPLY				V1	V1			
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~			
	Frequency		Hz	50	50			
	Voltage		V	230	230			

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### NOTES

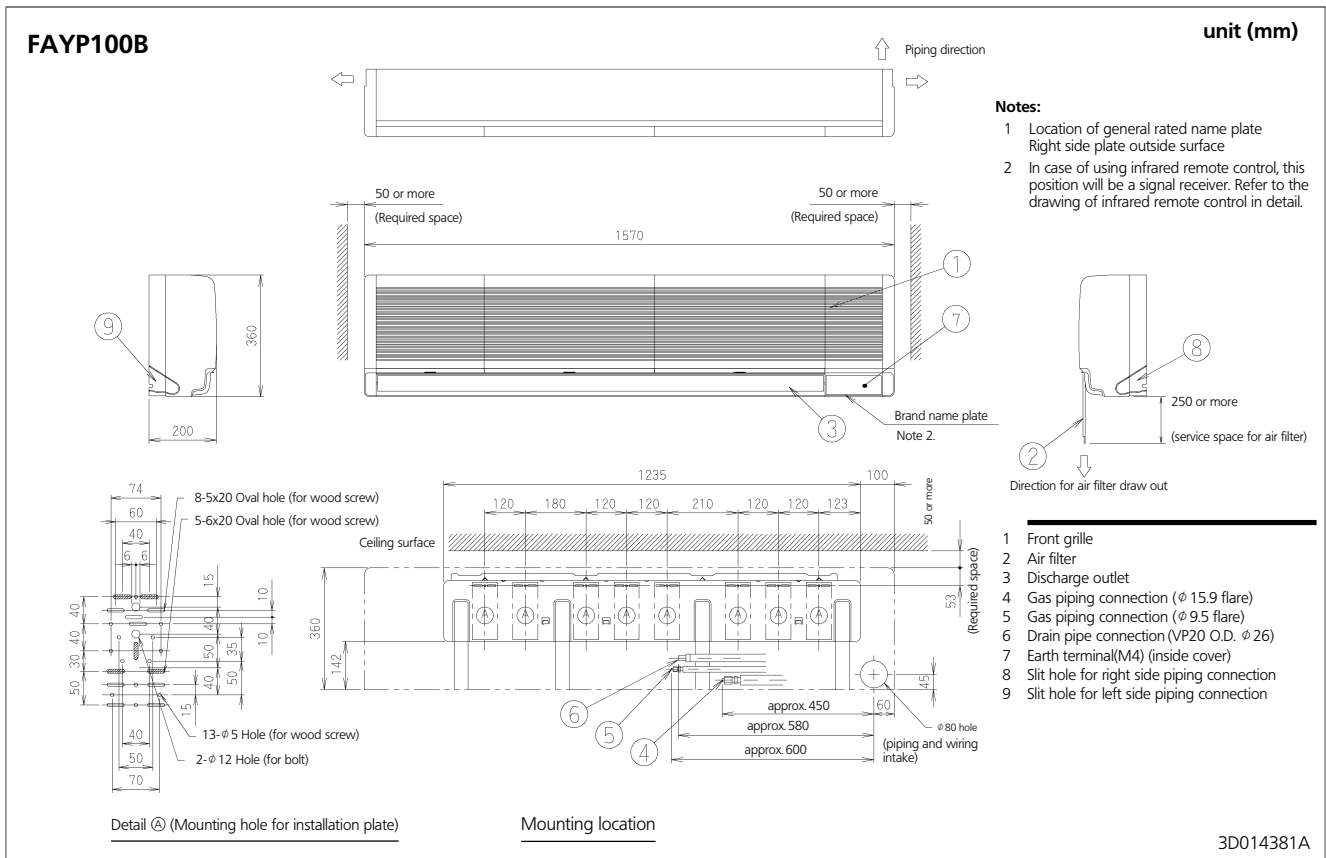
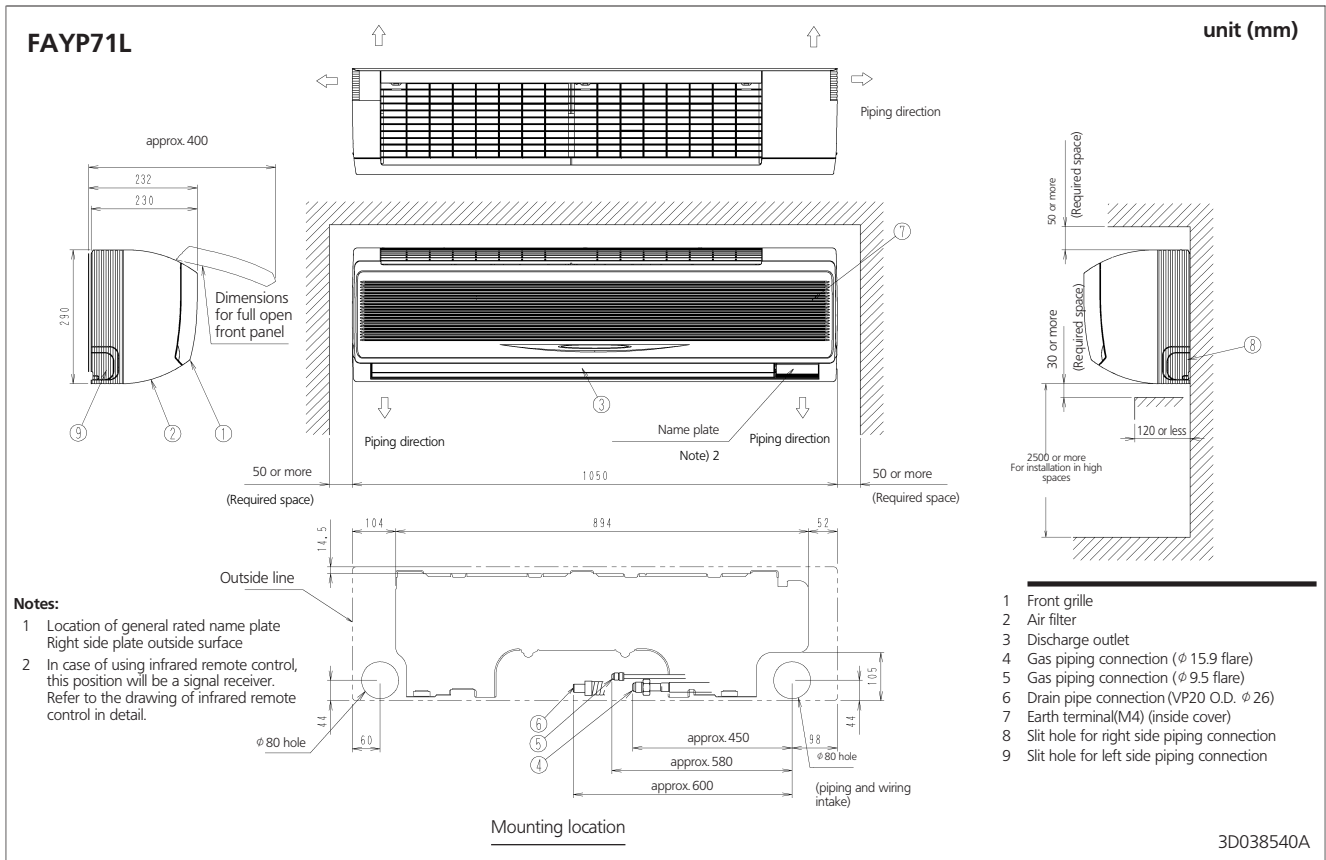
- Nominal cooling capacities are based on: indoor temperature 27°CDB/19.5°CWB \* outdoor temperature 35°CDB \* equivalent refrigerant piping length: 7.5m \* level difference: 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB \* outdoor temperature: 7°CDB/6°CWB \* refrigerant piping 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

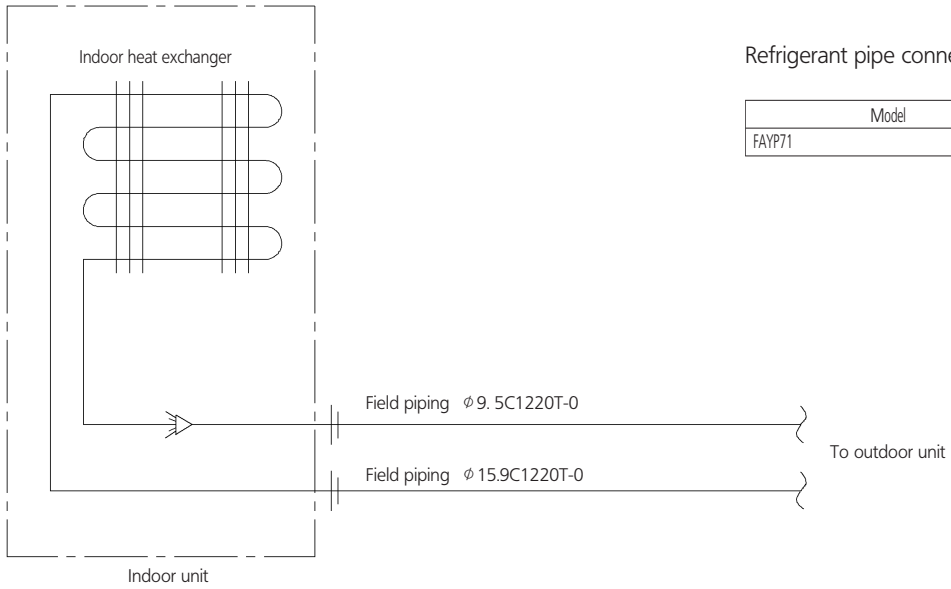




# 4 Piping diagrams

4

## FAYP71L



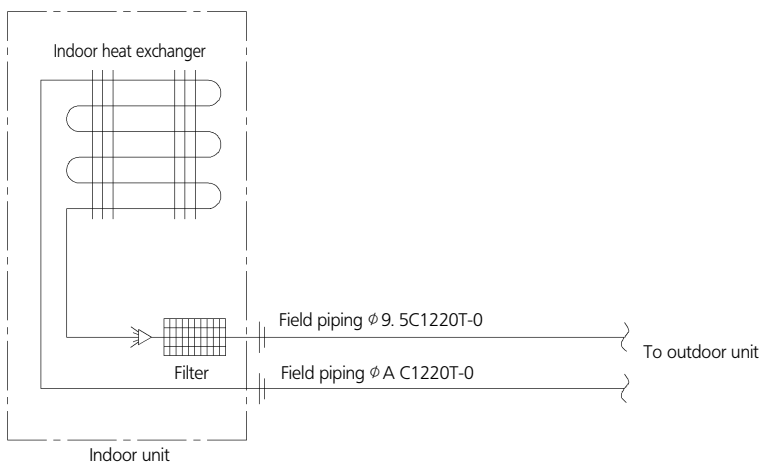
Refrigerant pipe connection port diameters

Model	A
FAYP71	$\phi$ 15.9

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

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## FAYP100B

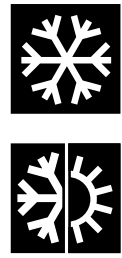


Refrigerant pipe connection port diameters

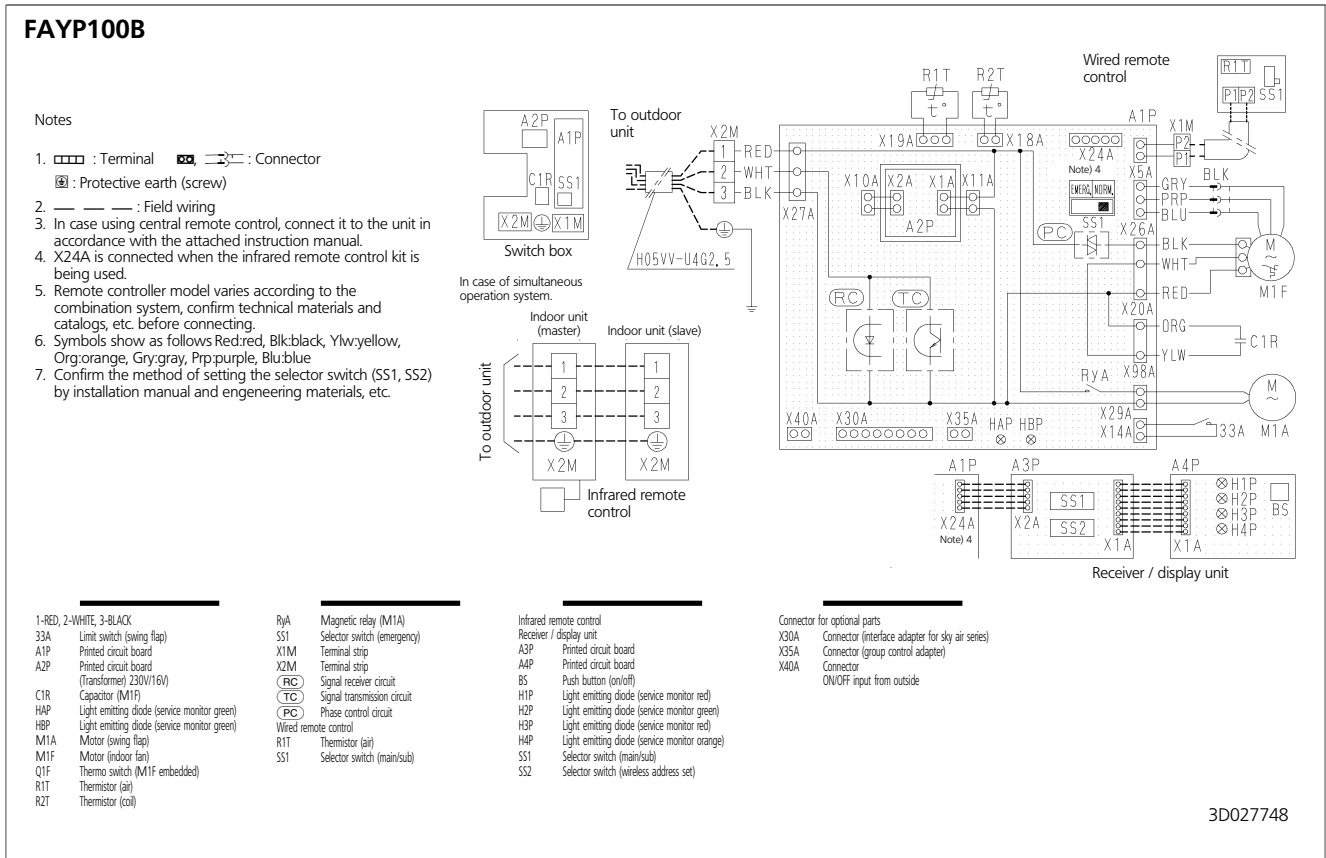
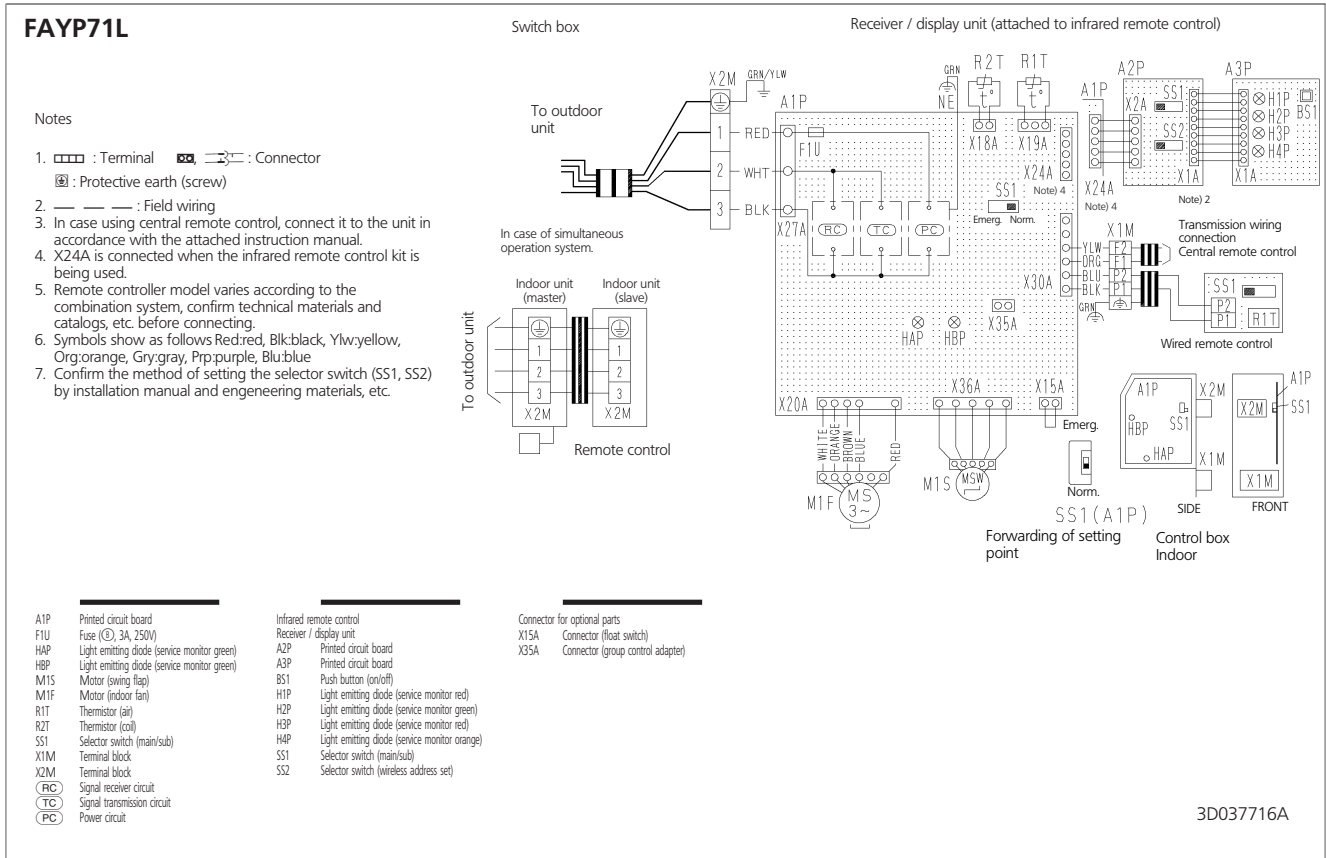
Model	A
FAYP100	$\phi$ 19.1

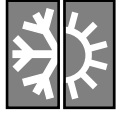
Check valve  
 Flare connection  
 Screw connection  
 Flange connection  
 Pinched pipe  
 Spinned pipe

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# 5 Wiring diagrams





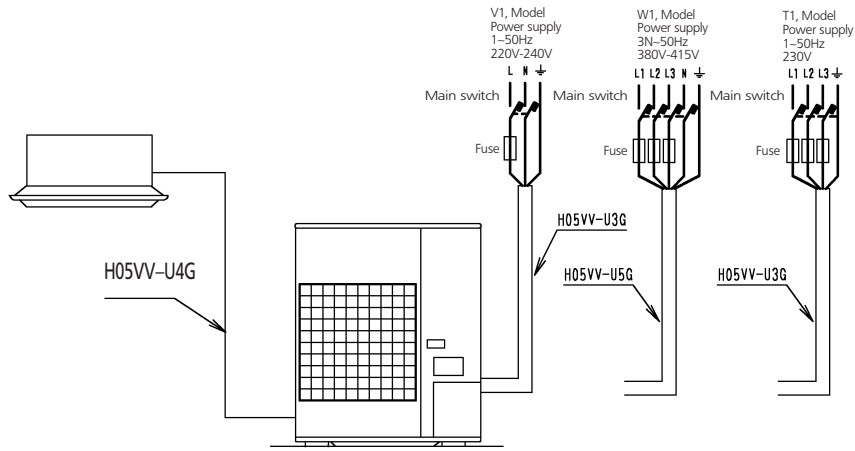


# 5 Wiring diagrams

5

## NOTES

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

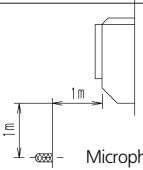


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# 6 Sound levels

## 6-1 Sound level data

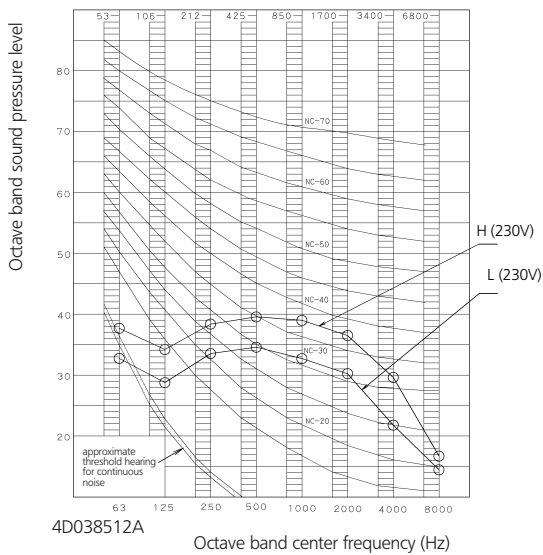
Model	Sound pressure level		Measuring location 	Sound power level	
	230V			Cooling H/L	Heating H/L
	50Hz				
	Cooling H/L	Heating H/L		Cooling H/L	Heating H/L
FAYP71LV1	43/37	43/37		59/53	59/53
FAYP100BV1	45/41	45/41		61/57	61/57

6

6-1

## 6-2 Sound pressure spectrum

FAYP71LV1 (Cooling/Heating)

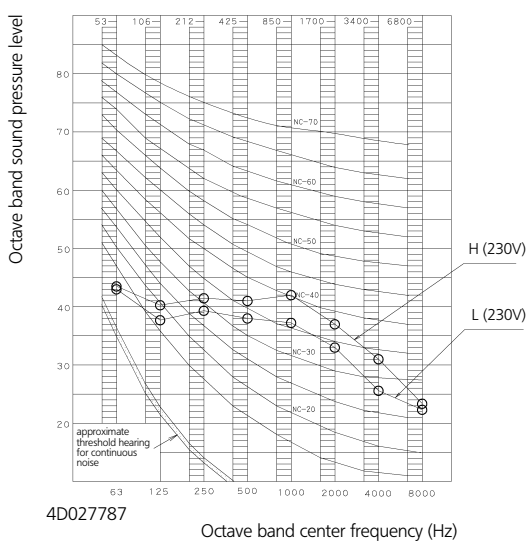


**Note:**

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

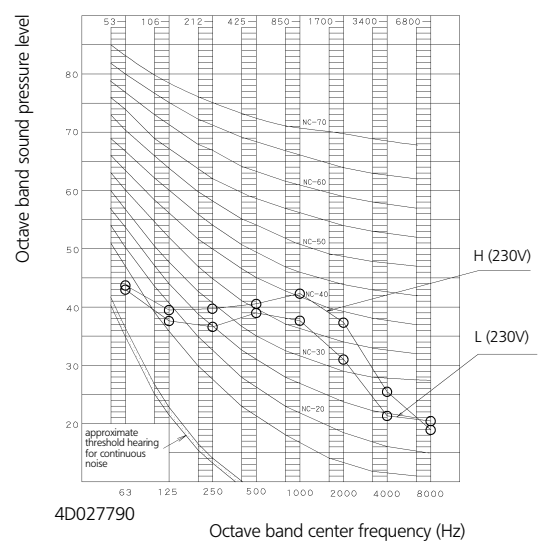
4D038512A Octave band center frequency (Hz)

FAYP100BV1 (Cooling)



4D027787 Octave band center frequency (Hz)

FAYP100BV1 (Heating)



4D027790 Octave band center frequency (Hz)

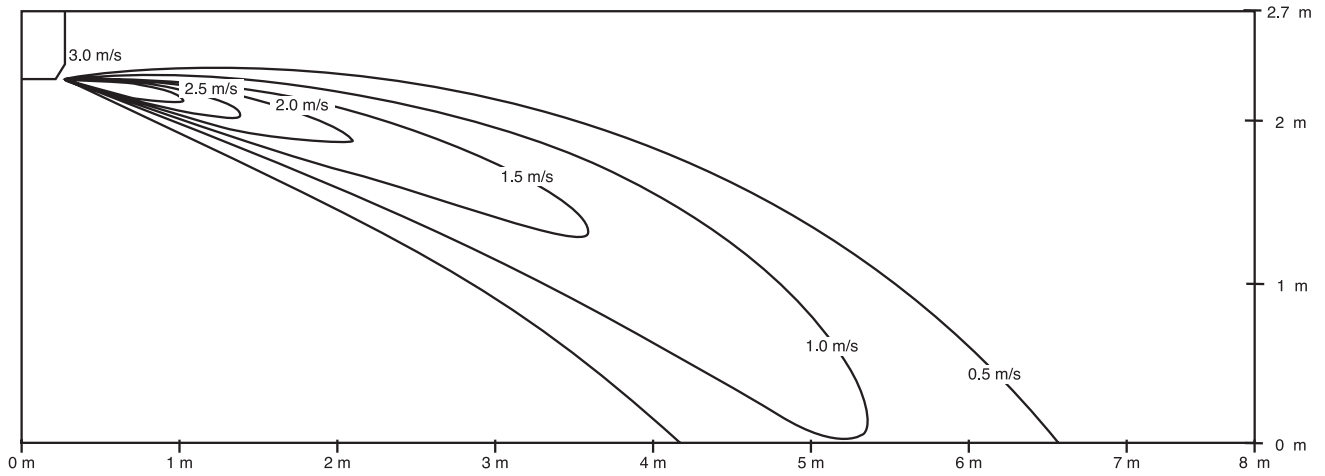


# 7 Air flow patterns

## 7 FAYP71LV1

Cooling - air velocity distribution

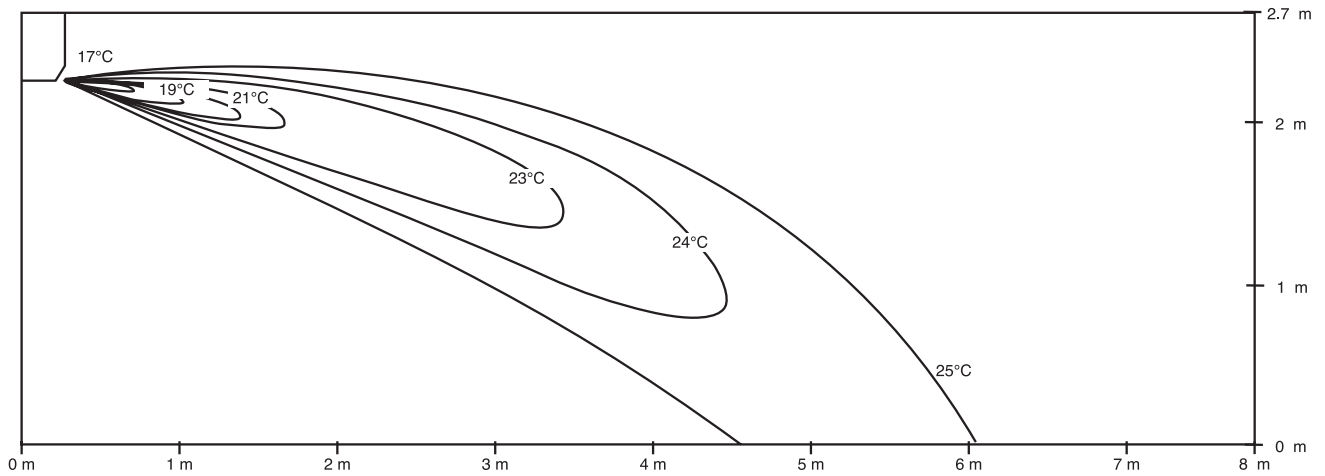
Air flow direction: 10° (downward)



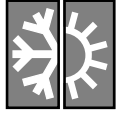
## FAYP71BV1

Cooling - air temperature distribution

Air flow direction: 10° (downward)



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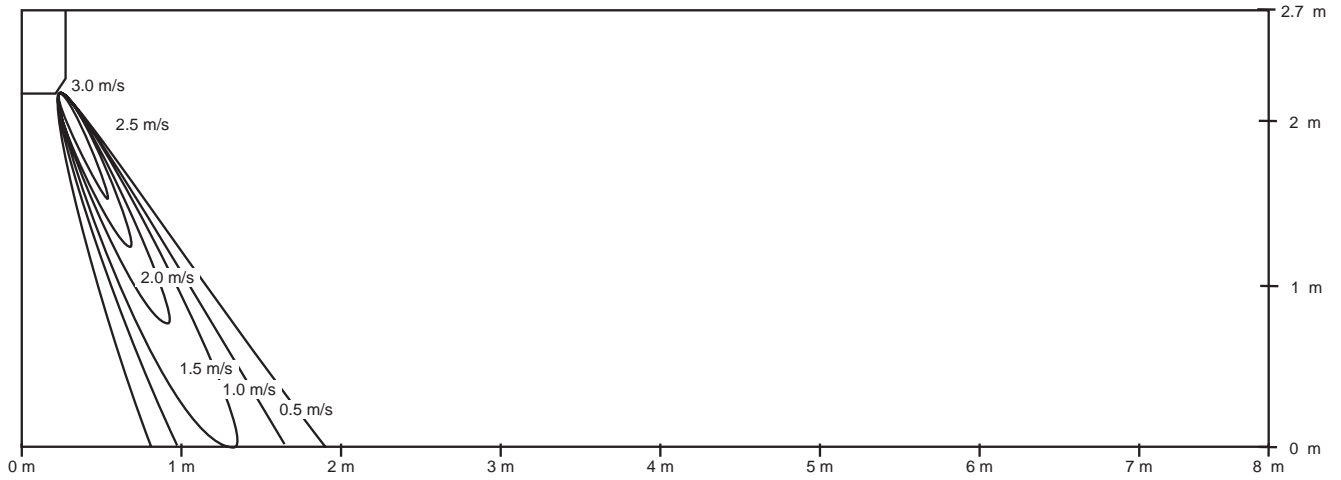


# 7 Air flow patterns

**FAYP71BV1**

Heating - air velocity distribution

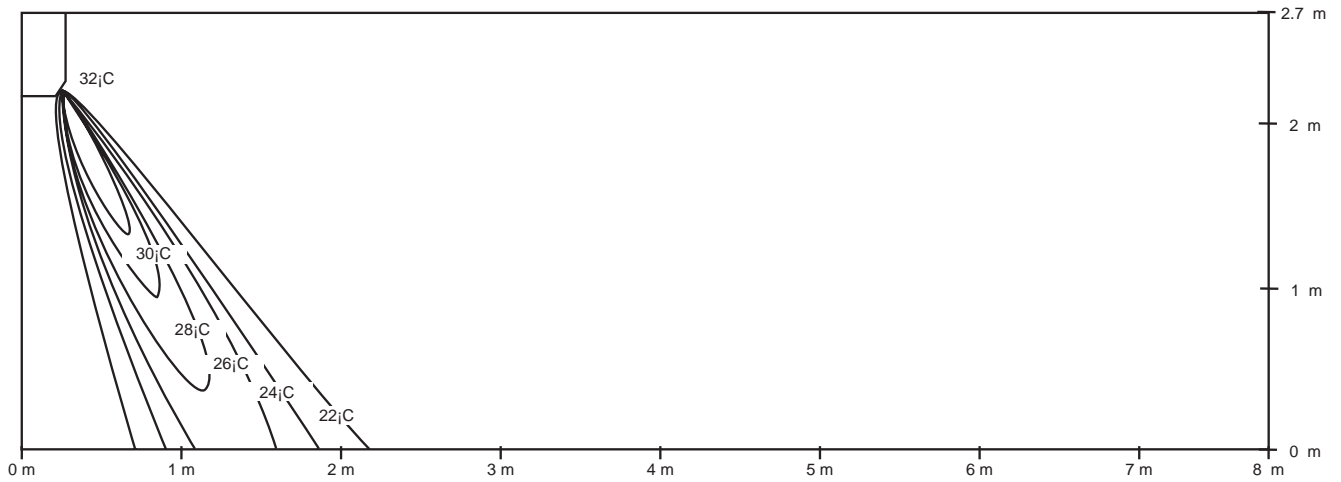
Air flow direction: 65°C (downward)



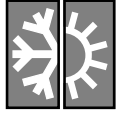
**FAYP71BV1**

Heating - air temperature distribution

Air flow direction: 65°C (downward)



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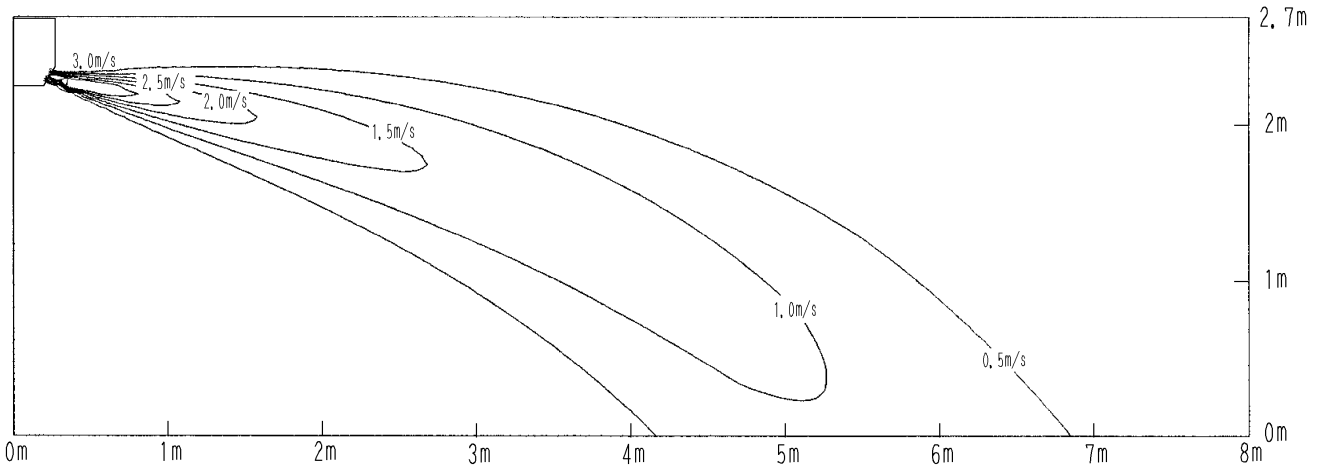


# 7 Air flow patterns

## 7 FAYP100BV1

Cooling - air velocity distribution

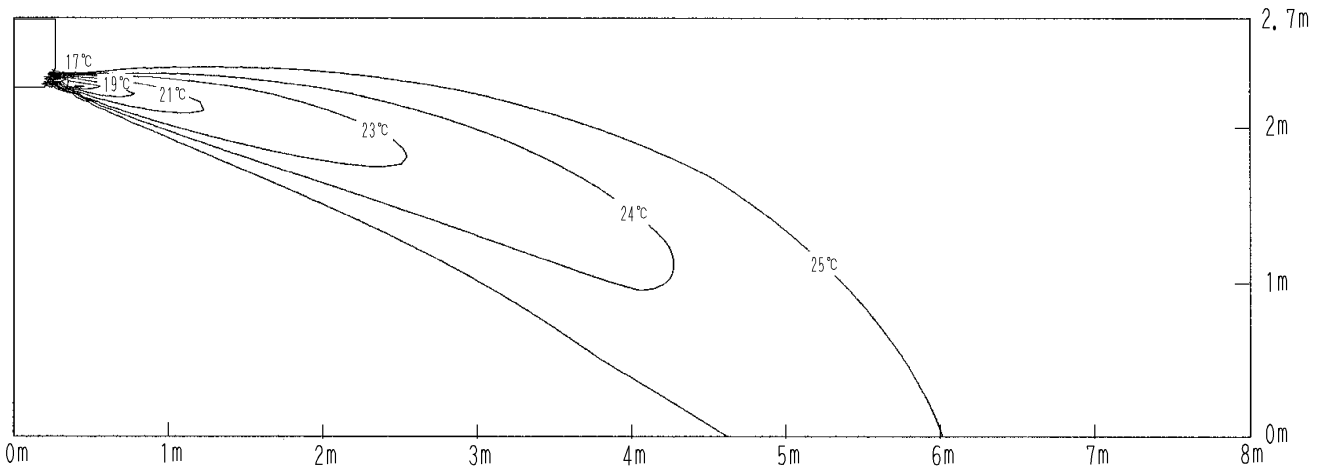
Air flow direction: 10° (downward)



## FAYP100BV1

Cooling - air temperature distribution

Air flow direction: 10° (downward)



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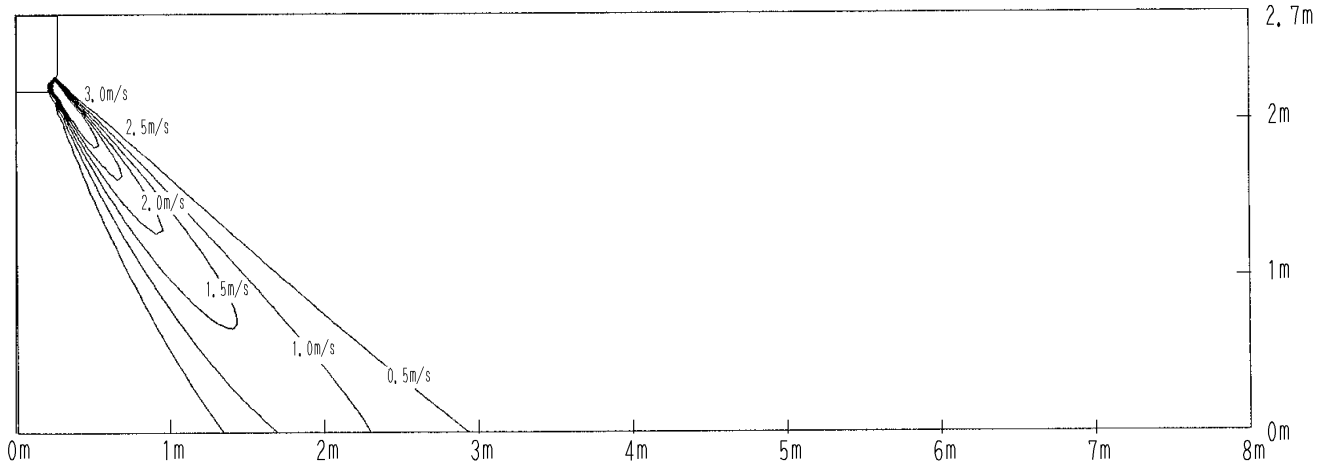
# 7 Air flow patterns

7

## FAYP100BV1

Heating - air velocity distribution

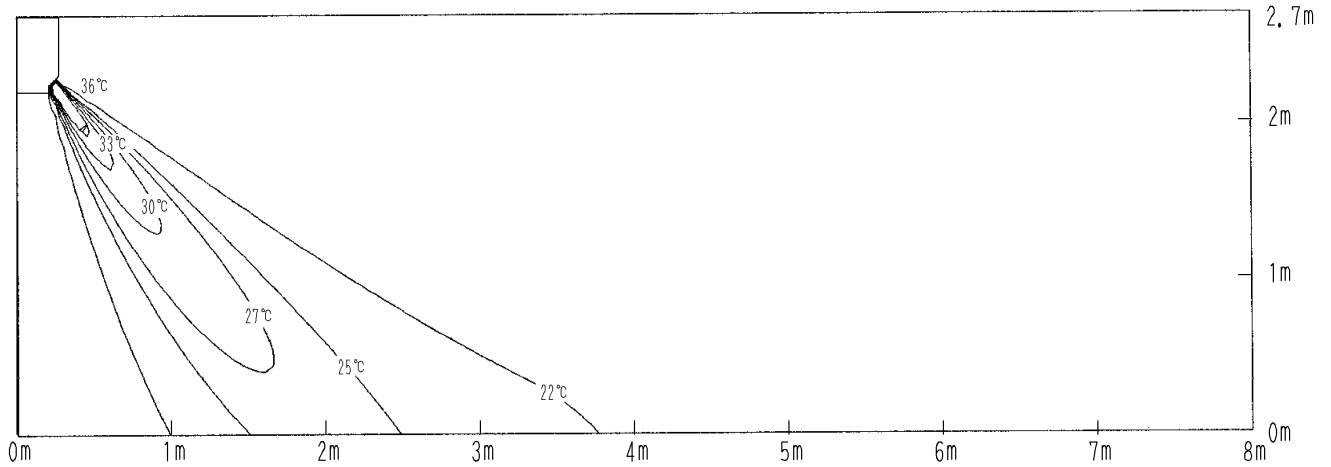
Air flow direction: 65°C (downward)



## FAYP100BV1

Heating - air temperature distribution

Air flow direction: 65°C (downward)



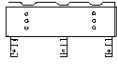



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# 8 Accessories

## 8-1 Standard accessories

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8-1

Name	1. Installation panel	Insulation for fitting (for refrigerant pipe)	4. Insulation tape	5. Paper pattern for installation	(Other) ● Installation manual ● Operation manual
Quantity	1 pc.	1 of each	2 pcs.	1 pc.	
Shape	 6. Screw x 12	2. For liquid pipe  3. For gas pipe			

## 8-2 Optional accessories

Optional accessories	Remark		Kit name
			FAYP100BV1
Remote control	Wired type		BRC1D527
	Infrared type	Heat pump	BRC7C510W
		Cooling only	BRC7C511W
Central remote control			DCS302B51
Unified ON/OFF control			DCS301B51
Schedule timer			DST301B51
Group control adapter			KRP4A51
Interface adapter for Sky Air series			DTA102A52
Remote ON/OFF, forced OFF			EKRORO

DU427-965E

Optional accessories	Remark		Kit name
			FAYP71LV1
Remote control	Wired		BRC1D527
	Infrared type	Heat pump	BRC7E618
		Cooling only	BRC7E619
Wiring adapter for electrical appendices (1)*			KRP2A51
Wiring adapter for electrical appendices (2)*			KRP4A51
Remote sensor			KRCS01-1
Installation box for adapter PCB (2-3)			KRP4A93
Central remote control			DCS302B51
Electrical box with earth terminal (3 blocks)			KJB311A
Unified ON/OFF control			DCS301B51
Electrical box with earth terminal (2 blocks)			KJB212A
Noise filter (for electromagnetic interface use only)			KEK26-1
Schedule timer			DST301B51

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**Note:**

1. Installation box (KRP4A93) is necessary for each adapter marked\*
2. Up to 2 adaptors can be fixed for each installation box.
3. Only one installation box can be installed for each indoor unit.



# 8 Accessories

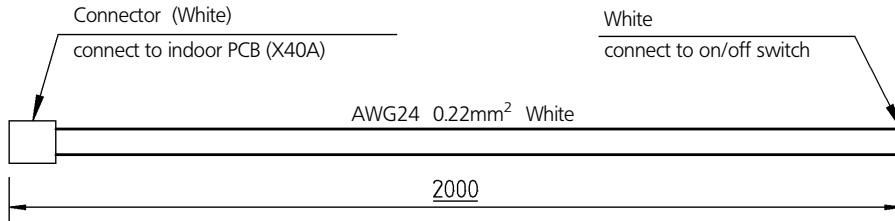
## 8-2 Optional accessories

### Specifications EKRORO

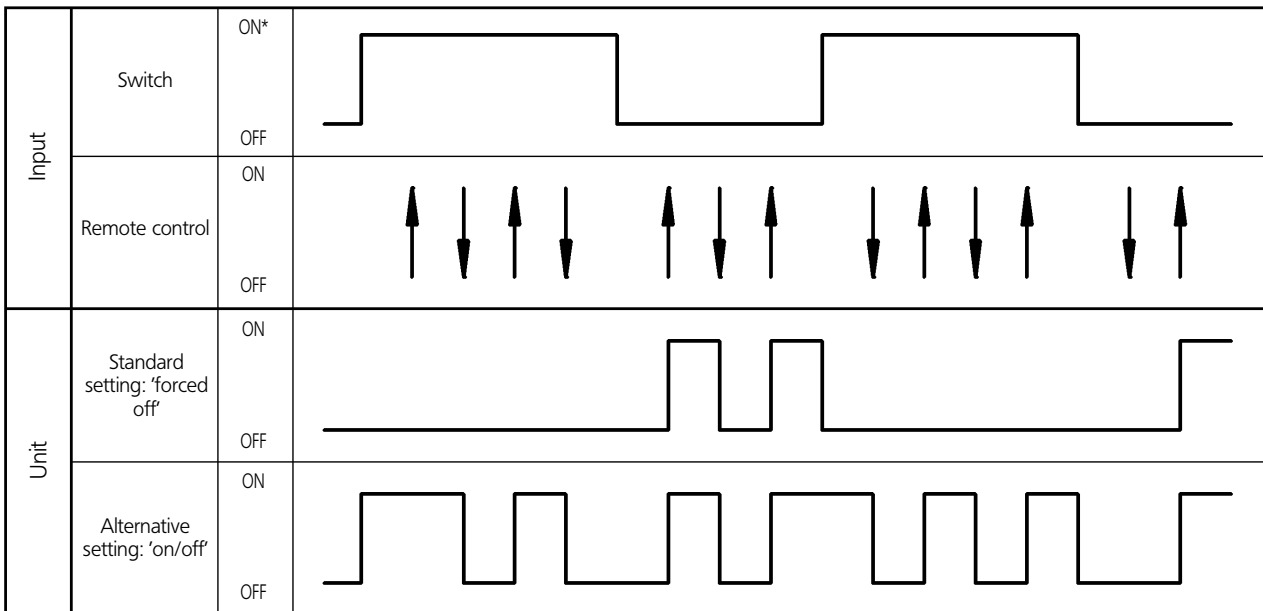
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8-2

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

4TW23941-1

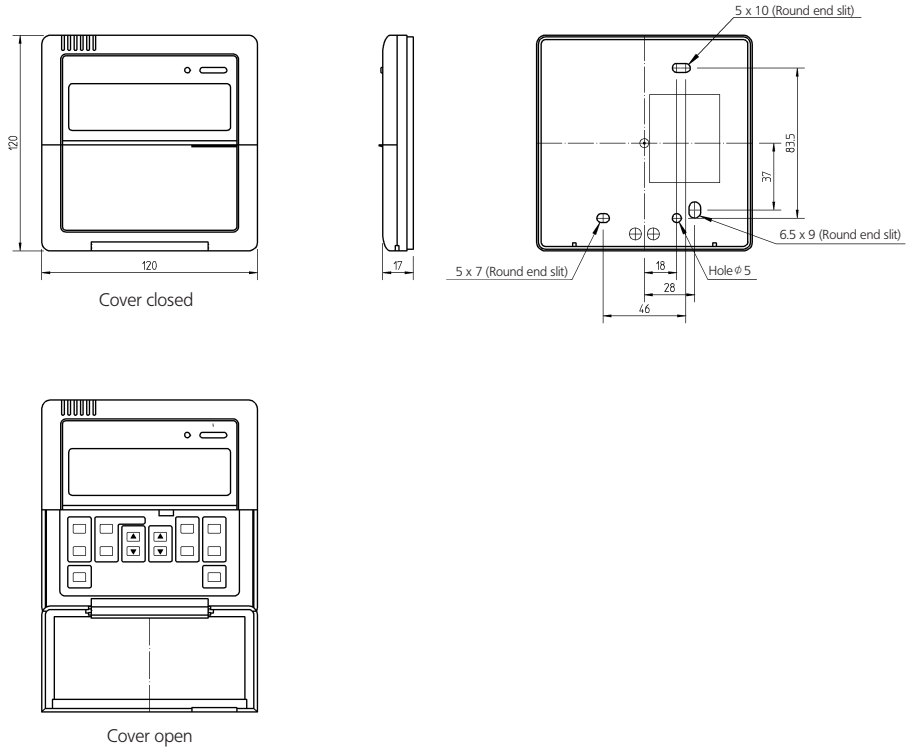


# 9 Control systems

## 9-1 Wired remote control

9  
9-1

BRC1D527



3TW23651-2



# 10 Safety device settings

10

Model	Safety devices	FAYP71LV1	FAYP100BV1
FAYP~BV1	Fuse	250V 3A	—
	Fan motor thermal fuse (°C)	—	—
	Fan motor thermal protector (°C)	—	OFF: 130±5 ON: 83±20

DU423-9101J

# 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.

