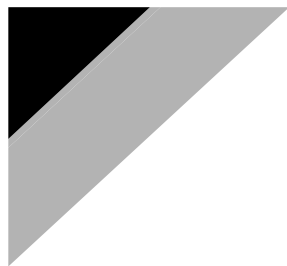


**DAIKIN**



# TECHNICAL DATA

## Split-Sky Air



**FAYP-B**  
**Wall Mounted Unit**



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

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# TABLE OF CONTENTS

## FAYP-B

1	Features .....	2
2	Specifications .....	3
	Nominal capacity, capacity steps and nominal input	
	Technical specifications	
	Electrical 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 velocity and temperature distributions .....	11
8	Accessories .....	15
	Standard accessories	
	Optional accessories	
9	Control systems .....	16
10	Safety device settings .....	18
11	Installation .....	18

For capacity tables, please refer to the outdoor units concerned

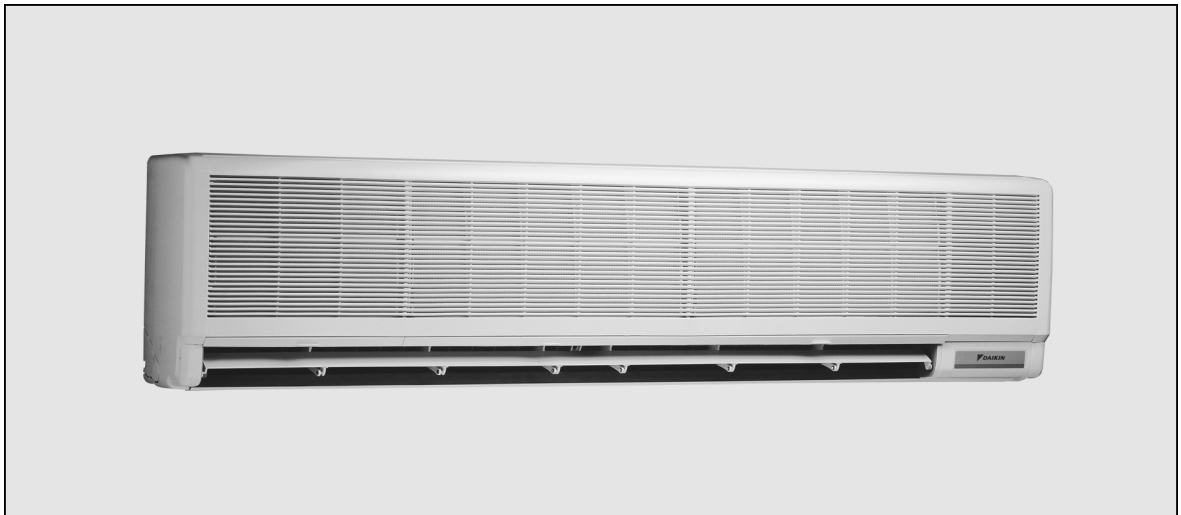




# 1 Features

- Ideal for shops, restaurants or offices requiring maximum floor space for furniture and fittings
- Fits neatly on a wall
- Automatic air flow director ensures uniform airflow and temperature distribution
- 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
- The (wired) remote control has a programmable timer
- Centralised control of several units can be achieved via 3 wired controls
  - centralised remote control
  - unified ON/OFF control
  - Schedule timer

1



Optional



Optional



Optional



Heat pump



2 steps



## 2 Specifications



NOMINAL CAPACITY and NOMINAL INPUT				
For indoor units only:				
INDOOR UNITS			FAYP71BV1	FAYP100BV1
NOMINAL INPUT	Cooling	kW	0.086	0.101

For combination indoor units + outdoor units:				
INDOOR UNITS			FAYP71BV1	FAYP100BV1
OUTDOOR UNITS			RP71B7V1/W1/T1	RP100B7V1/W1/T1
NOMINAL CAPACITY (2)	Cooling (1)	kW	7.1	10.0
NOMINAL INPUT	Cooling	kW	2.66/2.65/2.65	3.53/3.51/3.51

TECHNICAL SPECIFICATIONS					
INDOOR UNITS				FAYP71BV1	FAYP100BV1
DIMENSIONS	Unit	H	mm	360	360
		W	mm	1,570	1,570
		D	mm	200	200
WEIGHT	Unit	kg		26	26
MATERIAL	Unit			Resin	
COLOUR	Unit			White	
SOUND LEVEL	Sound pressure (3)	high	dBA	41	45
		low	dBA	37	41
	Sound power (4)	high	dBA	57	61
		low	dBA	53	57
FAN	Air flow rate	high	m <sup>3</sup> /min	19	23
		medium	m <sup>3</sup> /min	—	—
		low	m <sup>3</sup> /min	16	19
	Speed	steps		2 steps	
		high	rpm	—	—
		low	rpm	—	—
	Type			Cross flow fan	
	Qty x model			1 x (QCL1163MA+QCL1163MB)	
HEAT EXCHANGER	Qty x motor output	W		1 x 46	1 x 49
	Type			Cross fin coil (Multi louver fins and N-hiX tubes)	
	Rows x stages x fin pitch	mm		2 x 12 x 1.4	2 x 12 x 1.4
	Face area	m <sup>2</sup>		0.332	0.332
AIR FILTER				—	
AIR DIRECTION CONTROL				—	
TEMPERATURE CONTROL				—	
PIPING CONNECTIONS	liquid	mm		φ9.5(flare)	φ9.5(flare)
	gas	mm		φ15.9(flare)	φ19.1(flare)
	drain	mm		VP20, I.D. φ20	VP20, I.D. φ20
	drain	mm		VP20, O.D. φ26	VP20, O.D. φ26
INSULATION MATERIAL	Heat insulation			Foamed polystyrene/foamed polyethylene	
	Sound absorbing insulation			—	

For outdoor units	Pair application	See chapter R-GZ7/RP-B7
-------------------	------------------	-------------------------

## 2 Specifications



ELECTRICAL SPECIFICATIONS					
For indoor units only:				FAYP71BV1	FAYP100BV1
CURRENT	Nominal running current	cooling	A	—	—

For combination indoor units + outdoor units:				FAYP71BV1 RP71B7V1/W1/T1	FAYP100BV1 RP100B7V1/W1/T1
CURRENT	Nominal running current	cooling	A	—	—
	Maximum running current	cooling	A	—	—

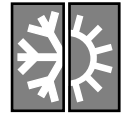
  

For indoor units only:				FAYP71BV1	FAYP100BV1
POWER SUPPLY				V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~
	Frequency		Hz	50	50
	Voltage		V	230	230

### 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.
- Capacities are net, including a deduction for indoor fan motor heat.
- 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.
- The sound power level is an absolute value indicating the "power" which a sound source generates.

## 2 Specifications



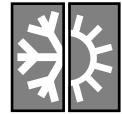
NOMINAL CAPACITY and NOMINAL INPUT				
For indoor units only:				
INDOOR UNITS			FAYP71BV1	FAYP100BV1
NOMINAL INPUT	Cooling	kW	0.086	0.101
	Heating	kW	0.086	0.101

For combination indoor units + outdoor units:				
INDOOR UNITS			FAYP71BV1	FAYP100BV1
OUTDOOR UNITS			RYP71B7V1/W1	RYP100B7V1/W1
NOMINAL CAPACITY (3)	Cooling (1)	kW	7.1	10.0
	Heating (2)	kW	7.7	10.8
NOMINAL INPUT	Cooling	kW	2.66/2.65	3.53/3.51
	Heating	kW	2.64/2.62	4.3/4.0

TECHNICAL SPECIFICATIONS					
INDOOR UNITS				FAYP71BV1	FAYP100BV1
DIMENSIONS	Unit	H	mm	360	360
		W	mm	1,570	1,570
		D	mm	200	200
WEIGHT	Unit	kg		26	26
MATERIAL	Unit			Resin	
COLOUR	Unit			White	
SOUND LEVEL	Sound pressure (cooling/heating) (4)	high	dBA	41/42	45/45
		low	dBA	37/38	41/41
	Sound power (cooling/heating) (5)	high	dBA	57/58	61/61
		low	dBA	53/54	57/57
FAN	Air flow rate	high	m <sup>3</sup> /min	19/19	23/23
		medium	m <sup>3</sup> /min	—	—
		low	m <sup>3</sup> /min	16/16	19/19
	Speed	steps		2 steps	
		high	rpm	—	—
		low	rpm	—	—
	Type			Cross flow fan	
	Qty x model			1 x (QCL1163MA+QCL1163MB)	
HEAT EXCHANGER	Qty x motor output	W		1 x 46	1 x 49
	Type			Cross fin coil (Multi louver fins and N-hiX tubes)	
	Rows x stages x fin pitch	mm		2 x 12 x 1.4	2 x 12 x 1.4
	Face area	m <sup>2</sup>		0.332	0.332
AIR FILTER				—	
AIR DIRECTION CONTROL				—	
TEMPERATURE CONTROL				—	
PIPING CONNECTIONS		liquid	mm	φ9.5flare	φ9.5flare
		gas	mm	φ15.9flare	φ19.1flare
		drain	mm	VP20, I.D. φ20	VP20, I.D. φ20
		drain	mm	VP20, O.D. φ26	VP20, O.D. φ26
INSULATION MATERIAL	Heat insulation			Foamed polystyrene/foamed polyethylene	
	Sound absorbing insulation			—	

For outdoor units	Pair application	See chapter RY-EAZ7/RYPB-7
-------------------	------------------	----------------------------

## 2 Specifications



ELECTRICAL SPECIFICATIONS					
For indoor units only:				FAYP71BV1	FAYP100BV1
CURRENT	Nominal running current	cooling	A	—	—
		heating	A	—	—

For combination indoor units + outdoor units:				FAYP71BV1	FAYP100BV1
				RYP71BV1/W1	RYP100B7V1/W1
CURRENT	Nominal running current	cooling	A	—	—
		heating	A	—	—
	Maximum running current	cooling	A	—	—
		heating	A	—	—

For indoor units only:				FAYP71BV1	FAYP100BV1
POWER SUPPLY				V1	V1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase			1~	1~
	Frequency		Hz	50	50
	Voltage		V	230	230

### NOTES

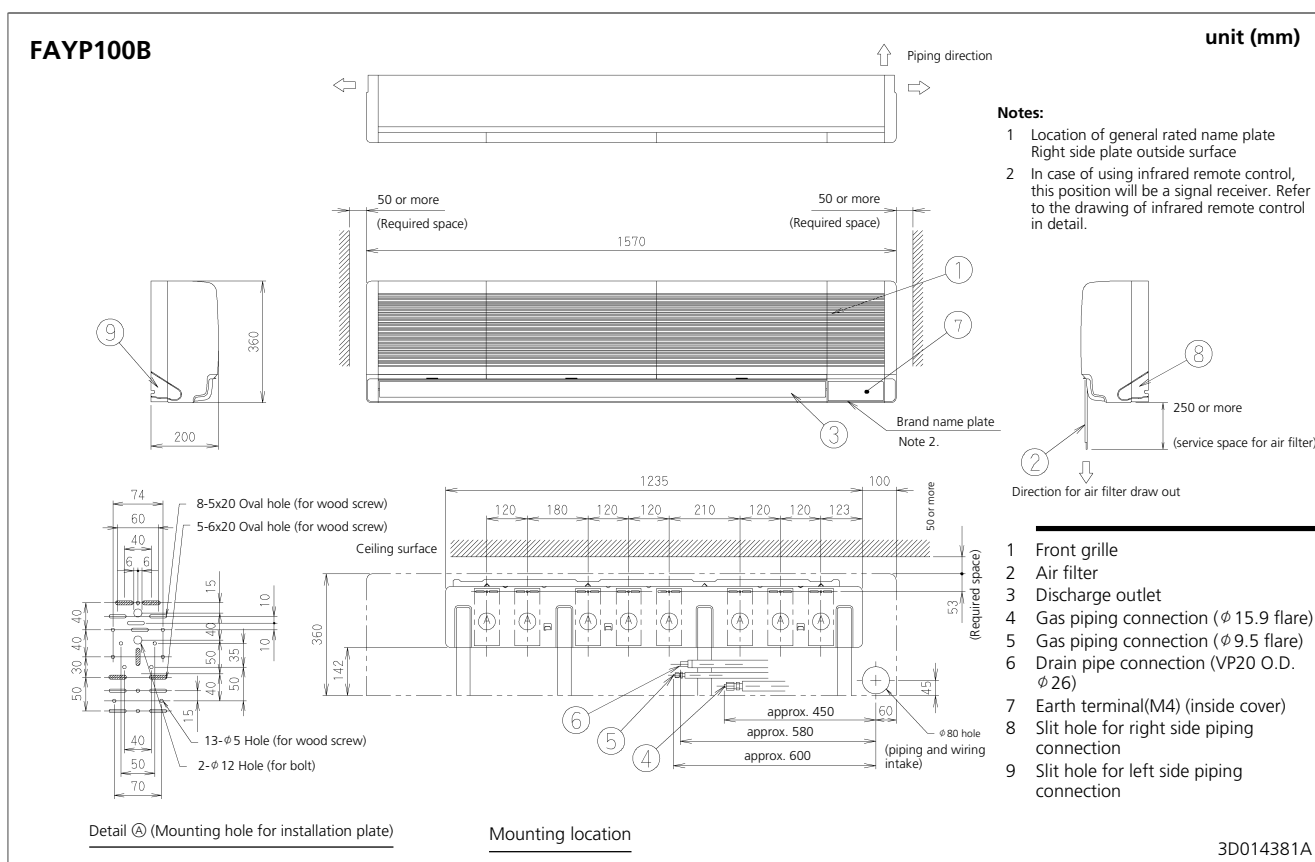
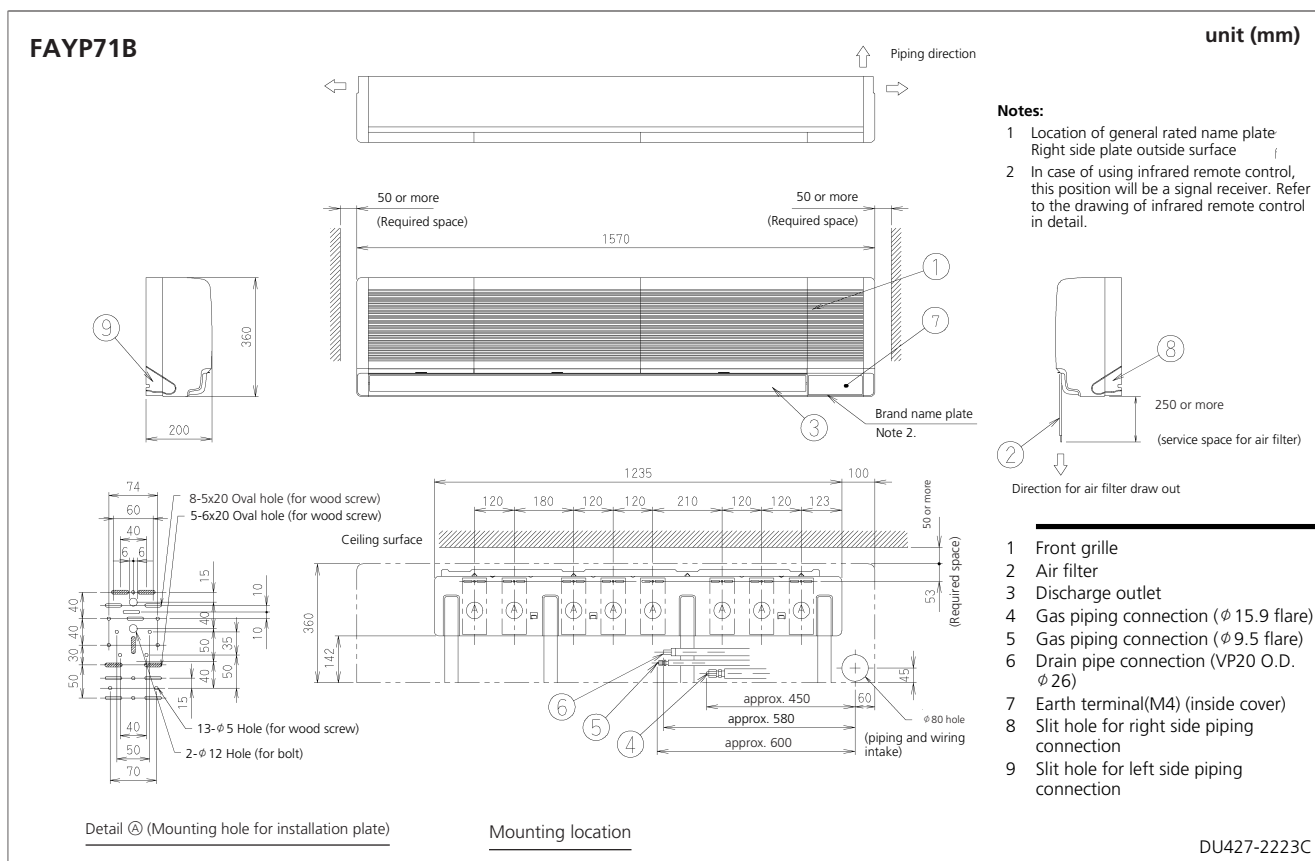
- Nominal cooling capacities are based on: indoor temperature 27°CDB/19.5°CWB \* outdoor temperature 35°CDB \* equivalent refrigerant piping length: 7.5m \* level difference: 0m.
- Nominal heating capacities are based on: indoor temperature: 20°CDB\* outdoor temperature: 7°CDB/6°CWB \* equivalent refrigerant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





### 3 Dimensional drawings

3

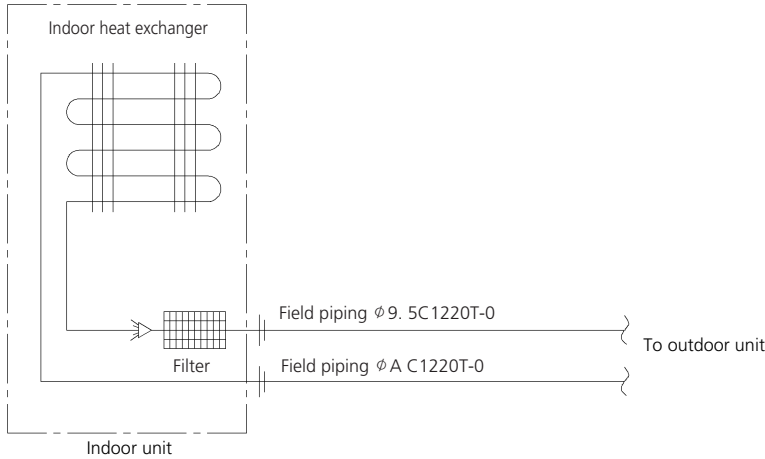




# 4 Piping diagrams

4

## FAYP71-100B



Refrigerant pipe connection port diameters

Model	A
FAYP71	φ15.9
FAYP100	φ19.1

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

4D013899A

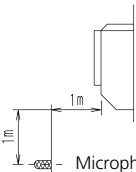
## 5

## 3D027748



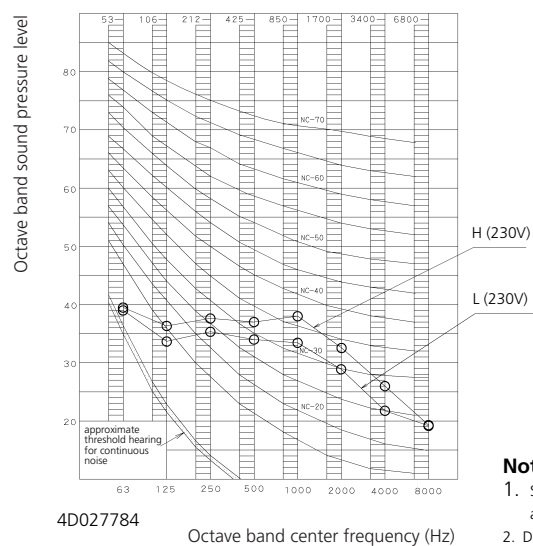
## 6 Sound levels

### 6-1 Sound level data

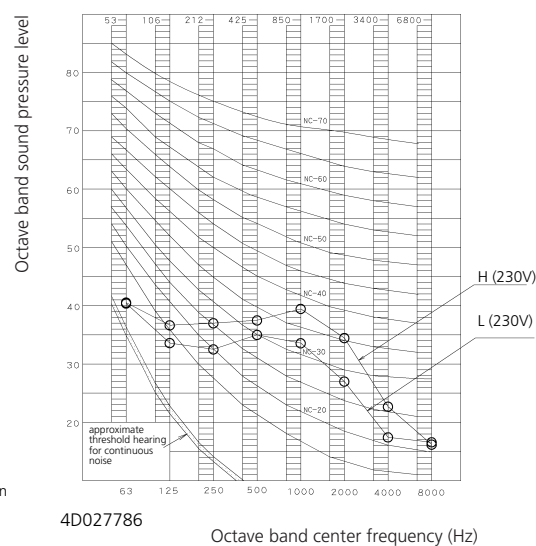
Model	Sound pressure level		Measuring location	Sound power level	
	230V			Cooling H/L	Heating H/L
	50Hz				
	Cooling H/L	Heating H/L			
FAYP71BV1	41/37	42/38	 Microphone	57/53	58/54
FAYP100BV1	45/41	45/41		61/57	61/57

### 6-2 Sound pressure spectrum

FAYP71BV1 (Cooling)



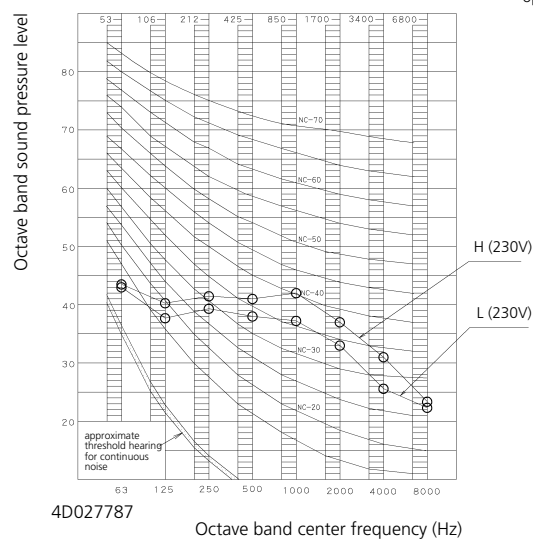
FAYP71BV1 (Heating)



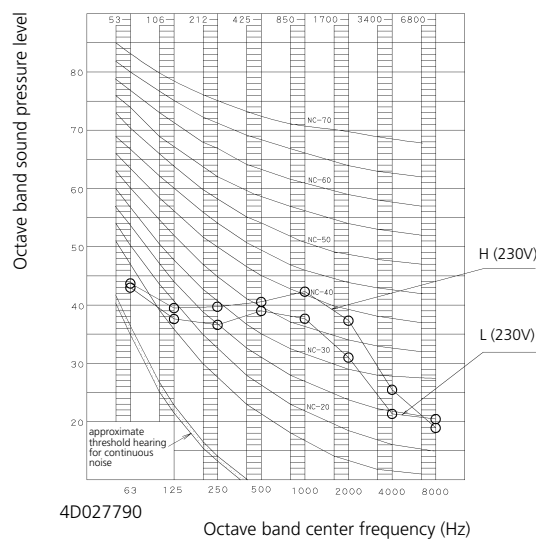
**Note:**

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.

FAYP100BV1 (Cooling)



FAYP100BV1 (Heating)



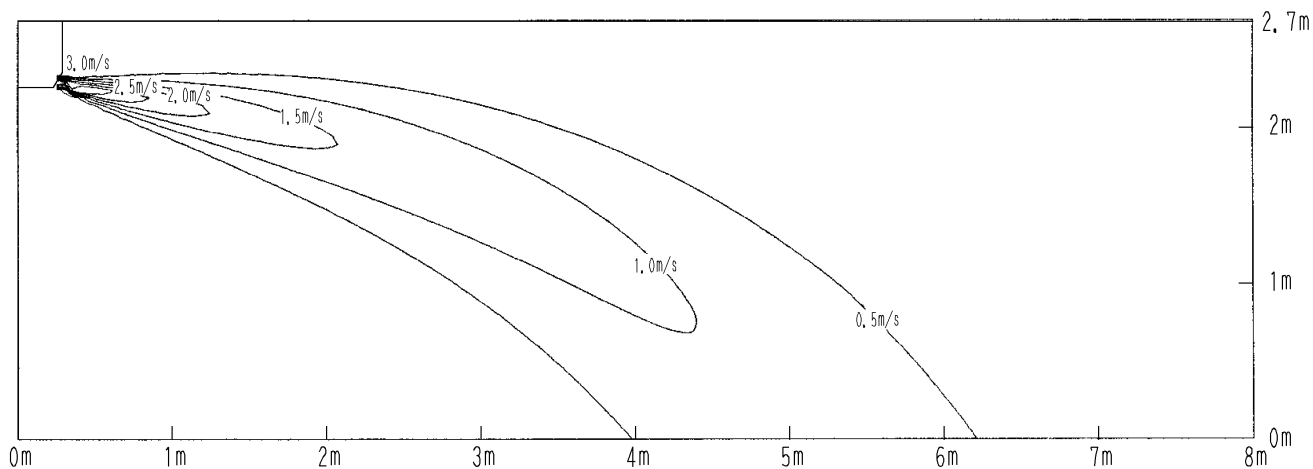


# 7 Air velocity and temperature distributions

## FAYP71BV1

Cooling - air velocity distribution

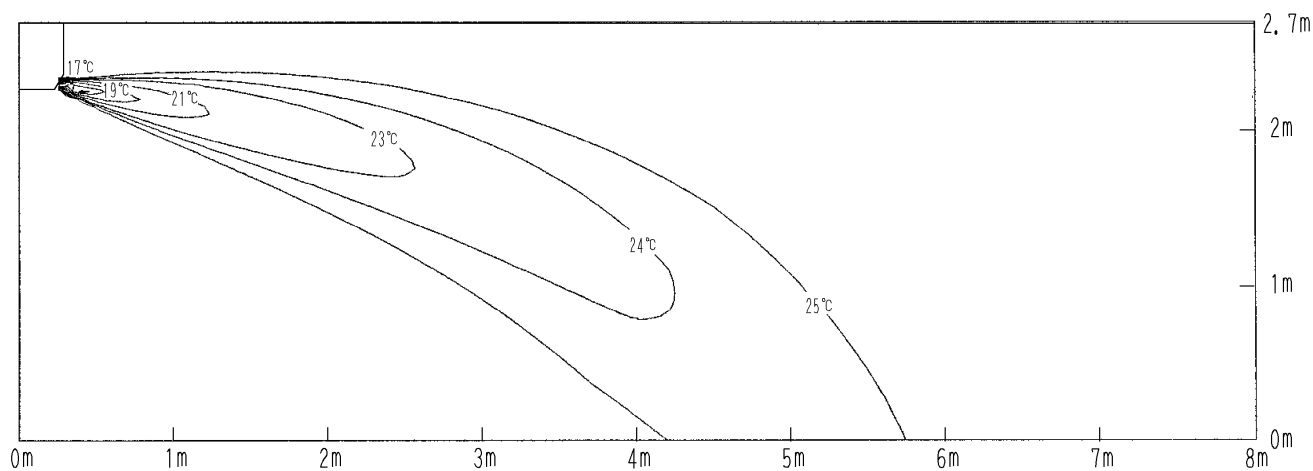
Air flow direction: 10° (downward)



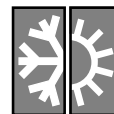
## FAYP71BV1

Cooling - air temperature distribution

Air flow direction: 10° (downward)



4D028545

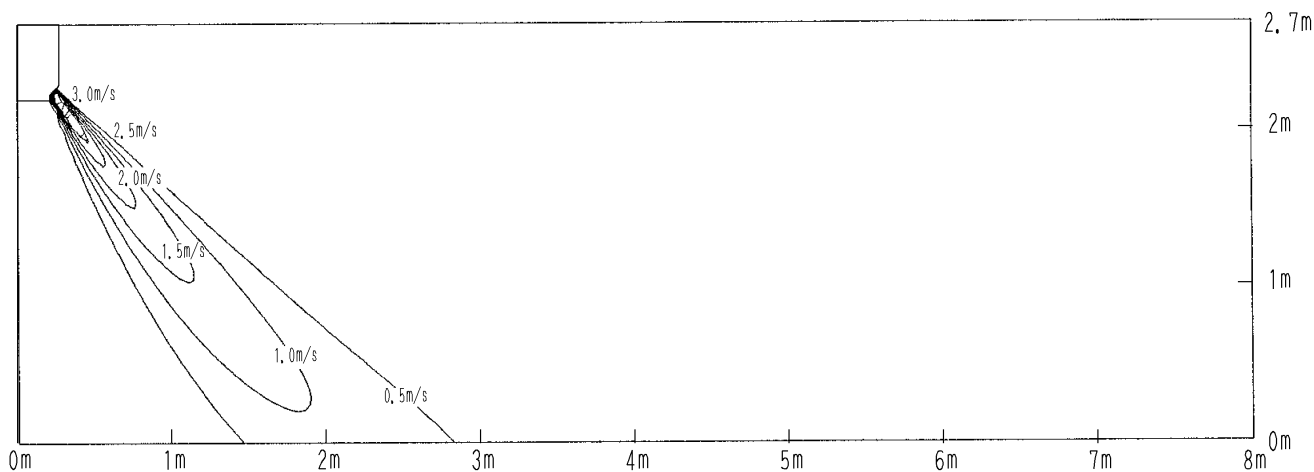


## 7 Air velocity and temperature distributions

### FAYP71BV1

Heating - air velocity distribution

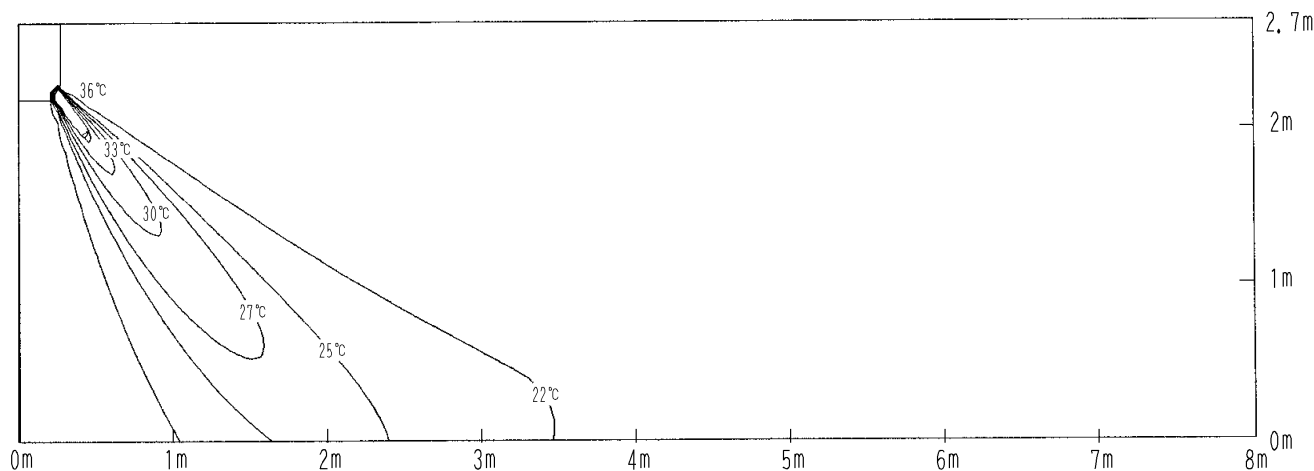
Air flow direction: 65°C (downward)



### FAYP71BV1

Heating - air temperature distribution

Air flow direction: 65°C (downward)



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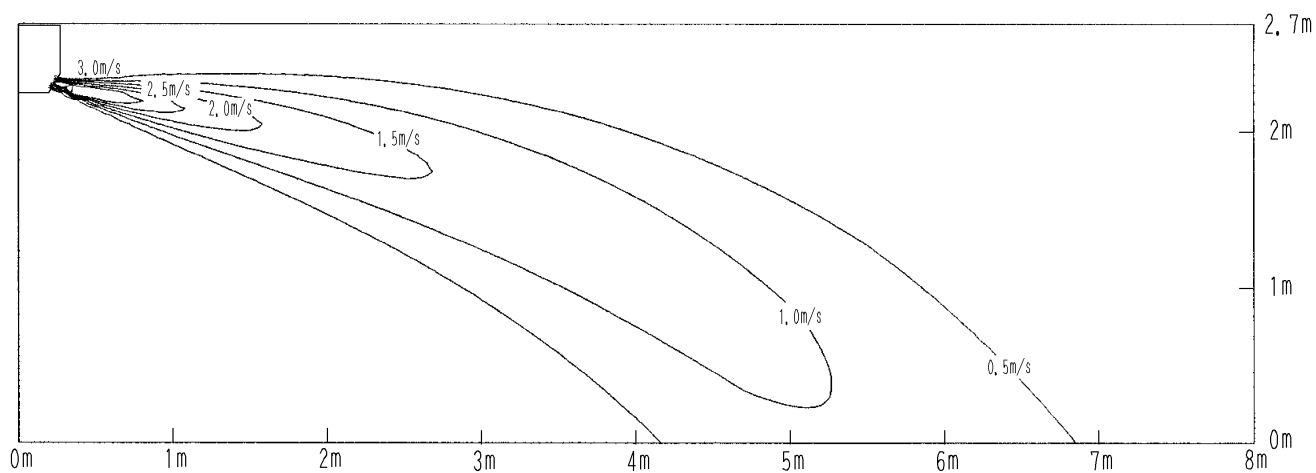


## 7 Air velocity and temperature distributions

### FAYP100BV1

Cooling - air velocity distribution

Air flow direction: 10° (downward)

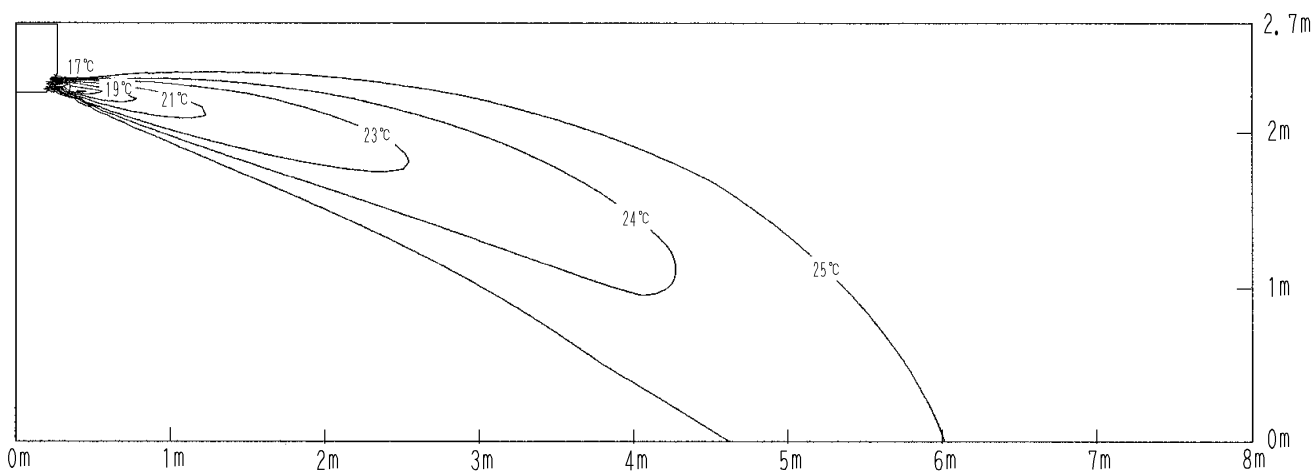


7

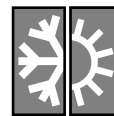
### FAYP100BV1

Cooling - air temperature distribution

Air flow direction: 10° (downward)



4D028547

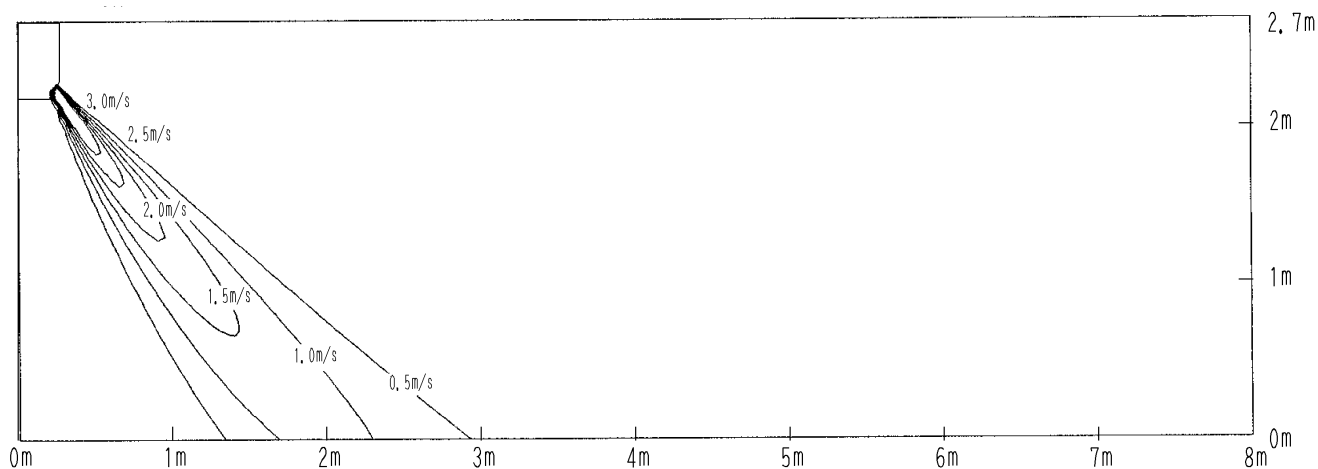


## 7 Air velocity and temperature distributions

### FAYP100BV1

#### Heating - air velocity distribution

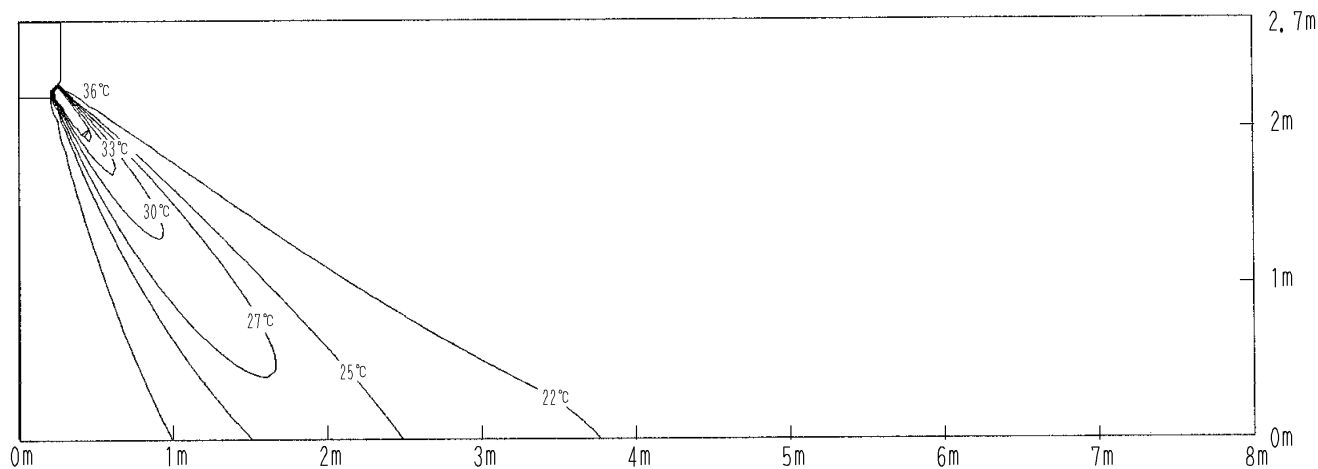
Air flow direction: 65°C (downward)



### FAYP100BV1

#### Heating - air temperature distribution

Air flow direction: 65°C (downward)



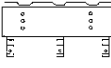



4D028548

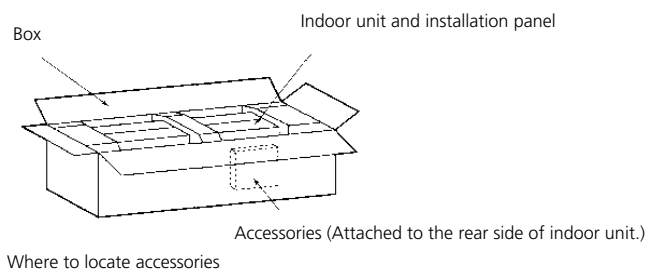




## 8 Accessories

### 8-1 Standard accessories

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

Name of option	Remark		Kit name	
			FAYP71BV1	FAYP100BV1
Remote controller	Wired type		BRC1C517	
	Infrared type	Heat pump	BRC7C510W	
		Cooling only	BRC7C511W	
Central remote control			DCS302B51	
Unified ON/OFF control			DCS301B51	
Schedule timer			DCS301B51	
Group control adaptor			KRP4A51	
Interface adaptor for Sky Air series			DTA102A52	
Connector for forced on, forced off			EKF0F0	

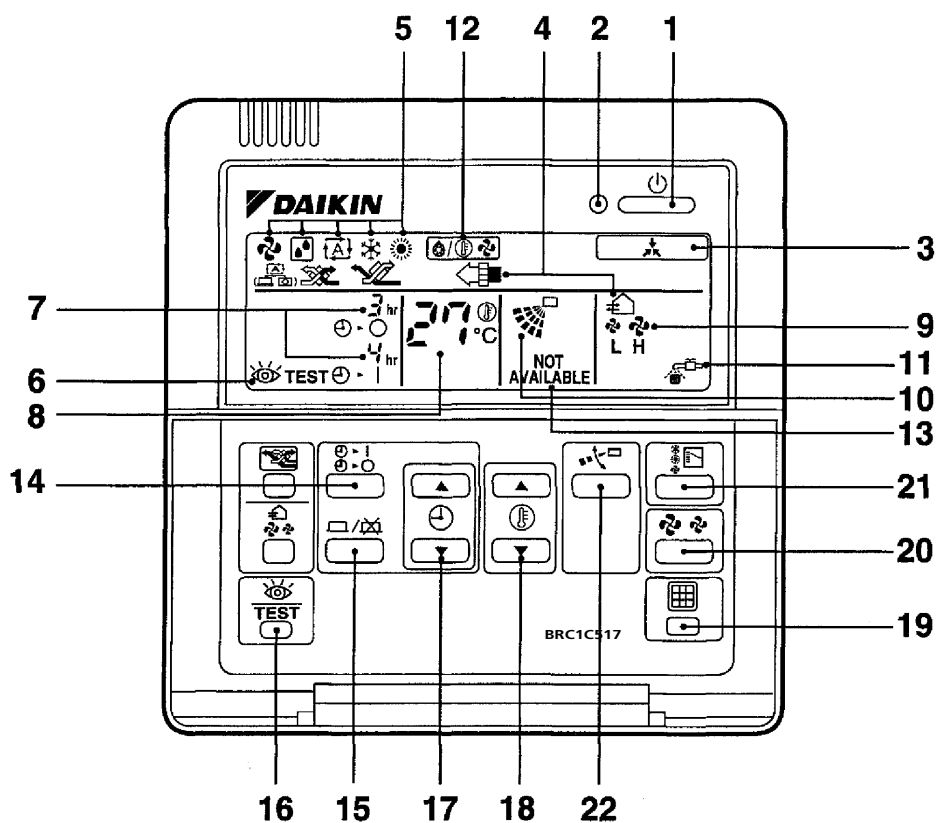
DU427-965E



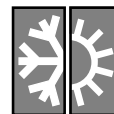
## 9 Control systems

Figure 1

BRC1C517



Remote control



## 9 Control systems

### Name and function of each switch and display on the remote control

Refer to figure 1 on the previous page.

This illustration corresponds to the remote control format BRC1C type. Although the display and shape of the buttons on the BRC1B type are slightly different, they may be operated in the same manner.

9

1	<b>ON/OFF BUTTON</b>	12	<b>DISPLAY "❄️/❄️" (DEFROST)</b>
	Press the button and the system will start. Press the button again and the system will stop.		Refer to "DEFROST OPERATION"
2	<b>OPERATION LAMP (RED)</b>	13	<b>NON-FUNCTIONING DISPLAY</b>
	The lamp lights up during operation.		If that particular function is not available, pressing the button may display the words "NOT AVAILABLE" for a few seconds. When running multiple units simultaneously, the "NOT AVAILABLE" message will only appear if none of the indoor units is equipped with the function. If even one unit is equipped with the function, the display will not appear.
3	<b>DISPLAY 'A' (UNDER CENTRALISED CONTROL)</b>	14	<b>TIMER MODE START/STOP BUTTON</b>
	When this display shows, the system is UNDER CENTRALISED CONTROL.		Refer to "PROGRAM TIMER OPERATION".
4	<b>DISPLAY "🌀", "🌀", "🌀", "🌀", "🌀" (VENTILATION / AIR CLEANING)</b>	15	<b>TIMER ON/OFF BUTTON</b>
	This display shows that the total heat exchange unit and the air cleaning unit are in operation. These are optional accessories.		Refer to "PROGRAM TIMER OPERATION".
5	<b>DISPLAY '❄️' 'A' 'A' '❄️' '❄️' '❄️' (OPERATION MODE)</b>	16	<b>INSPECTION/TEST OPERATION BUTTON</b>
	This display shows the current OPERATION MODE. For cooling only type, 'A' (Auto) and '❄️' (Heating) are not installed.		This button is used only by qualified service persons for maintenance purposes.
6	<b>DISPLAY '🔍' (INSPECTION/TEST OPERATION)</b>	17	<b>PROGRAMMING TIME BUTTON</b>
	When the INSPECTION/TEST OPERATION BUTTON is pressed, the display shows the system mode is in.		Use this button for programming 'START and/or STOP' time.
7	<b>DISPLAY '🕒' (PROGRAMMED TIME)</b>	18	<b>TEMPERATURE SETTING BUTTON</b>
	This display shows PROGRAMMED TIME of the system start or stop.		Use this button for SETTING TEMPERATURE.
8	<b>DISPLAY '27.0' (SET TEMPERATURE)</b>	19	<b>FILTER SIGN RESET BUTTON</b>
	This display shows the set temperature.		Refer to "HOW TO CLEAN THE AIR FILTER".
9	<b>DISPLAY '🌀' (FAN SPEED)</b>	20	<b>FAN SPEED CONTROL BUTTON</b>
	The display shows the set fan speed.		Press this button to select the fan speed, HIGH or LOW, of your choice.
10	<b>DISPLAY '🌀' (AIR FLOW FLAP)</b>	21	<b>OPERATION MODE SELECTOR BUTTON</b>
	Refer to "ADJUSTING THE AIR FLOW DIRECTION".		Press this button to select OPERATION MODE.
11	<b>DISPLAY '🕒' (TIME TO CLEAN AIR FILTER)</b>	22	<b>AIR FLOW DIRECTION ADJUST BUTTON</b>
	Refer to "HOW TO CLEAN THE AIR FILTER".		Refer to "ADJUSTING THE AIR FLOW DIRECTION".

#### NOTE

- For the sake of explanation, all indications are shown on the display contrary to actual running situations.



## 10 Safety device settings

Model	Safety devices r;1	FAYP71BV1	FAYP100BV1
FAYP-BV1	Fuse	–	–
	Fan motor thermal fuse (°C)	–	–
	Fan motor thermal protector (°C)	OFF: 130±5 ON: 83±20	OFF: 130±5 ON: 83±20

DU423-9101C

10

## 11 Installation

### Names and functions of parts

- a Indoor unit
- b Outdoor unit
- c Remote controller
- d Inlet air
- e Discharged air
- f Air outlet
- g Air flow flap (at air outlet)
- h Refrigerant piping, connection electric wire
- i Drain pipe
- j Air inlet
- The built-in air filter removes dust and dirt.
- k Ground wire
- Wire to ground from the outdoor unit to prevent electrical shocks.

