

technical data

FAQ-BU

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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. 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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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 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 guiet 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 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











teps Twin / Triple

2 Specifications



NOMINAL CAPACITY and NOMINAL INPUT								
For indoor units only:								
INDOOR UNITS			FAQ71BUV1B	FAQ100BUV1B				
NOMINAL INPUT	Cooling	kW	0.068	0.101				
	Heating	kW	0.068	0.101				

INDOOR UNITS				FAQ71B7V3B	FAQ100B7V3B
OUTDOOR UNITS				RR71B7V3B/RR71B7W1B	RR100B7V3B/RR100B7W1B
NOMINAL CAPACITY (3)	Cooling (1)	nominal	kW	7.10	10.00
Nominal input	Cooling	nominal	kW	2.65/2.53	3.56/3.52
EER				2.68/2.81	2.81/2.84
ENERGY LABEL	Cooling			D/C	C/C
ANNUAL ENERGY CONSUMPTION	Cooling	3		1,325	1,780

For combination indoor + outdoor units (air cooled):								
INDOOR UNITS				FAQ71B7V3B	FAQ100B7V3B			
OUTDOOR UNITS				RQ71B7V3B/RQ71B7W1B	RQ100B7V3B/RQ100B7W1B			
NOMINAL CAPACITY (3)	Cooling (1)	Cooling (1) nominal kW	kW	7.10	10.10			
	Heating (2)	nominal	kW	8.00	11.20			
NOMINAL INPUT	Cooling	nominal	kW	2.65/2.53	3.56/3.52			
	Heating	nominal	kW	2.58/2.49	3.96/3.82			
EER				2.68/2.81	2.81/2.84			
COP				3.10/3.21	2.83/2.93			
ENERGY LABEL	Cooling			D/C	C/C			
	Heating			D/C	D/D			
ANNUAL ENERGY CONSUMPTION	Cooling		kWh	1,325	1,780			

For combination indoor + outdoor units (air cooled):								
INDOOR UNITS				FAQ71BUV1B	FAQ100BUV1B			
OUTDOOR UNITS				RZQ71B8V3B	RZQ100B8V3B/B7W1B			
NOMINAL CAPACITY (3)	Cooling (1)	nominal	kW	7.10	10.00			
	Heating (2)	nominal	kW	8.00	11.20			
NOMINAL INPUT	Cooling	nominal	kW	2.36	2.78			
	Heating	nominal	kW	2.42	3.39			
EER	-		'	3.01	3.6			
COP				3.31	3.30			
ENERGY LABEL	Cooling			В	A			
	Heating			C	C			
ANNUAL ENERGY CONSUMPTION	Cooling	-		1,180	1,390			

2 Specifications



INDOOR UNITS				FAQ71BUV1B	FAQ100BUV1B	
DIMENSIONS	Unit	Н	l mm	290	360	
		W	mm	1,050	1,570	
		D	mm	230	200	
WEIGHT	Unit		kg	13	26	
MATERIAL	Unit		1.19	Res		
COLOUR	Unit			Wh	ite	
SOUND LEVEL	Sound pressure (cooling/heating) (4)	high	dB(A)	43/43	45/45	
		low	dB(A)	37/37	41/41	
	Sound power (cooling/heating) (5)	high	dB(A)	59/59	61/61	
		low	dB(A)	53/53	57/57	
FAN	Air flow rate	high	m³/min	19/19	23/23	
		low	m³/min	15/15	19/19	
	Speed	Speed steps		2 steps		
	Туре	-		Cross flow fan		
	Qty x motor output W			1 x 43	1 x 49	
HEAT EXCHANGER	Туре			Cross fin coil (Multi louver fins and Hi-XA tubes)		
	Rows x stages x fin pitch		mm	2 x 16 x 1.4	2 x 12 x 1.4	
	Face area		m ²	0.289	0.332	
PIPING CONNECTIONS		liquid	mm	Ф9.5	(flare)	
		gas	mm	Ф15.9	(flare)	
		drain I.D.	mm	Ф13 (VP13)	Ф20 (VP20)	
		drain O.D.	mm	Ф18 (VP13)	Ф26 (VP20)	
Insulation Material	RIAL Heat insulation			Foamed polystyrene/foamed polyethylene		
For outdoor units	Pair / Twin / Triple application	l		See chapter RR-B	/ RQ-B / RZQ-B	

2 Specifications



ELECTRICAL SPECIFICATIONS								
For indoor units only: FAQ71BUV1B FAQ100BUV1B								
CURRENT	Nominal running current	cooling	A					
		heating	A	Con chapter DD D	77 DO D7 D7O D			
	Max. running current	cooling	A	See chapter RR-B7, RQ-B7, RZQ-B				
		heating	А					

For combination indoor + outdoor units (air cooled):				FAQ71B7V3B RR71B7V3B/RR71B7W1B	FAQ100B7V3B RR100B7V3B/RR100B7W1B
CURRENT	Nominal running current	cooling	А		
	Maximum running current	cooling	А	See chapter RR-B7	
	Starting current	cooling	A		

For combination indoor + outdoor units (air cooled):				FAQ71BUV1B RQ71B7V3B/RQ71B7W1B	FAQ100BUV1B RQ100B7V3B/RQ100B7W1B		
CURRENT	Nominal running current	cooling	Α				
	Maximum running current	cooling	A	See chapter RQ-B7			
	Starting current	cooling	А				

For combination indoor units + outdoor units:				FAQ71BUV1B RZQ71B8V3B	FAQ100BUV1B RZQ100B8V3B/B7W1B		
CURRENT	Nominal running current	cooling	А				
	Maximum running current	cooling	А	See chapter RZQ-B			
	Starting current	cooling	А	· 			

For indoor units only:			FAQ71BUV1B	FAQ100BUV1B	
POWER SUPPLY			V1	V1	
NOMINAL DISTRIBUTION	Phase		1~	1~	
system voltage	Frequency	Hz	50	50	
	Voltage	٧	220-240	220-240	

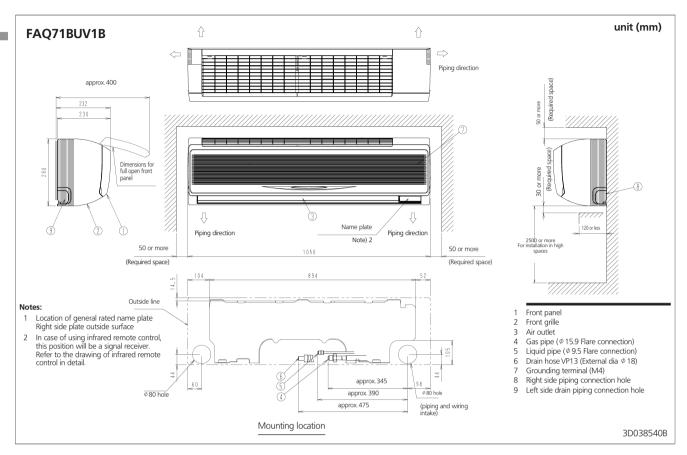
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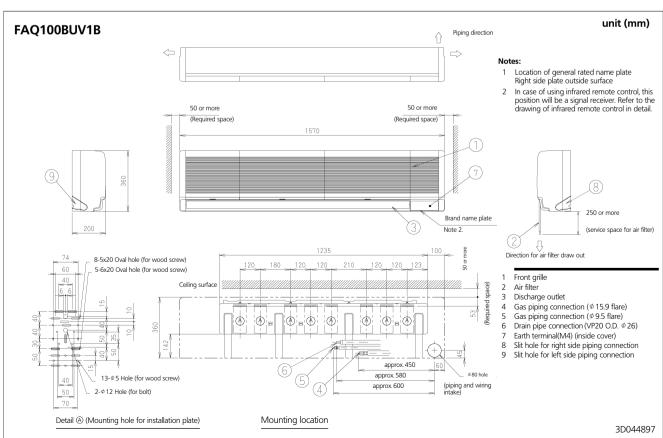
NOTES

- 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.
- 3 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.
- 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

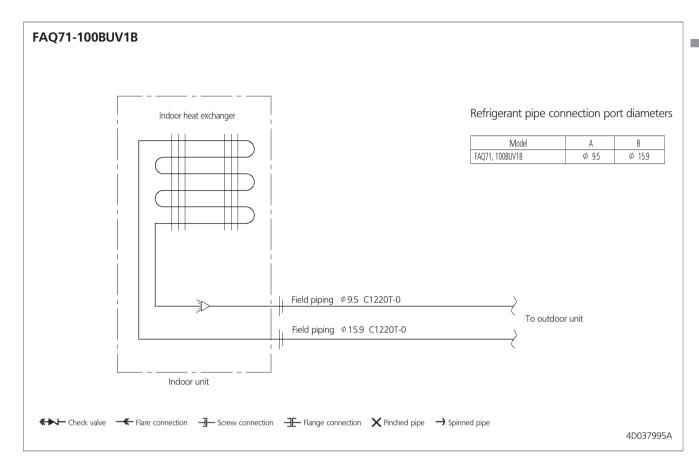






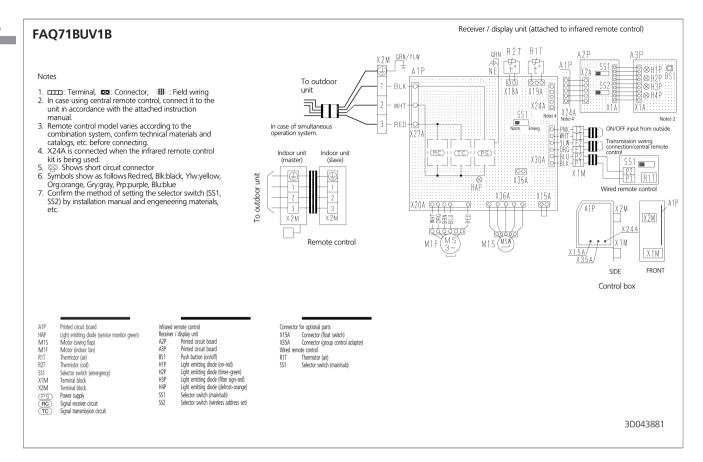
4 Piping diagrams

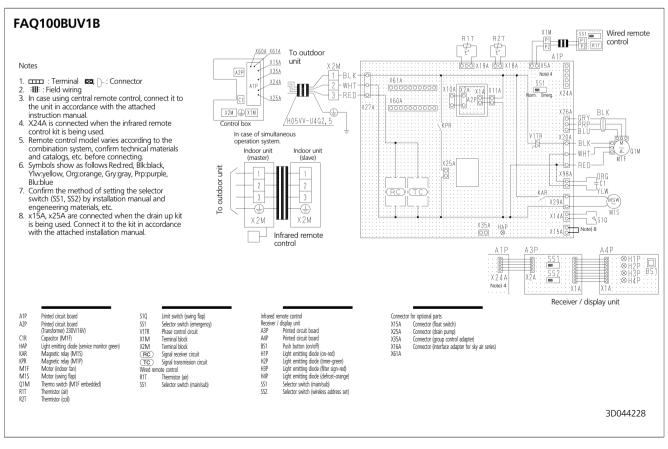




5 Wiring diagrams

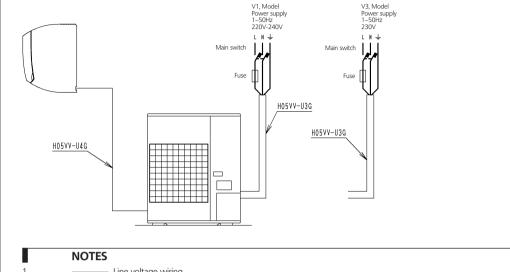






5 Wiring diagrams





- 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 compilance 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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Sound levels

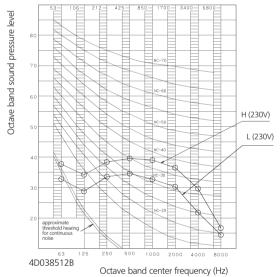
6-1 Sound level data



		Sound pressure lev			
	230V 50Hz			Sound power level	
Model			50Hz Measuring location		
	Cooling H/L	Heating H/L		Cooling H/L	Heating H/L
FAQ71BUV1B	43/37	43/37		45/41	45/41
FAQ100BUV1B	59/53	59/53	= Microphone	61/57	61/57

6-2 Sound pressure spectrum

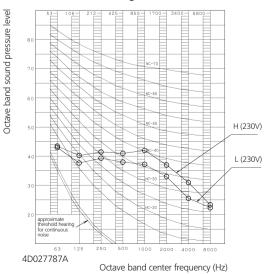
FAQ71BUV1B (Cooling/Heating)



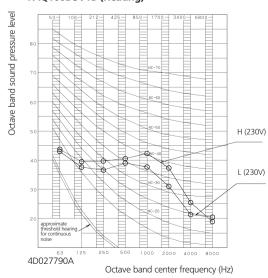
Note:

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

FAQ100BUV1B (Cooling)



FAQ100BUV1B (Heating)

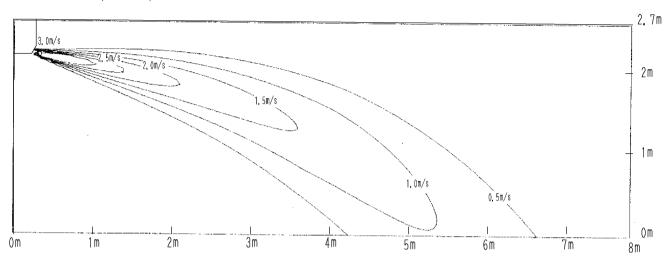




FAQ71BUV1B

Cooling - air velocity distribution

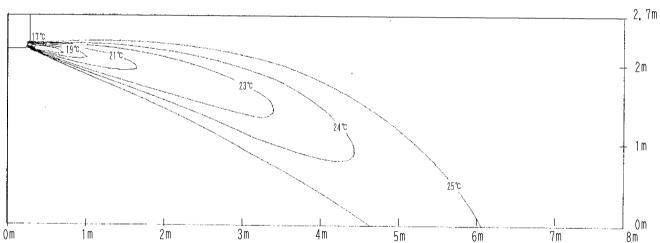
Air flow direction: 10° (downward)



FAQ71BUV1B

Cooling - air temperature distribution

Air flow direction: 10° (downward)



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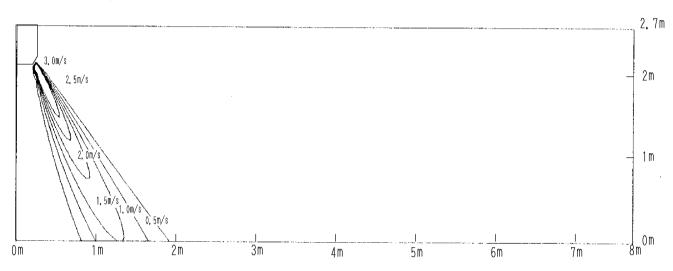


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FAQ71BUV1B

Heating - air velocity distribution

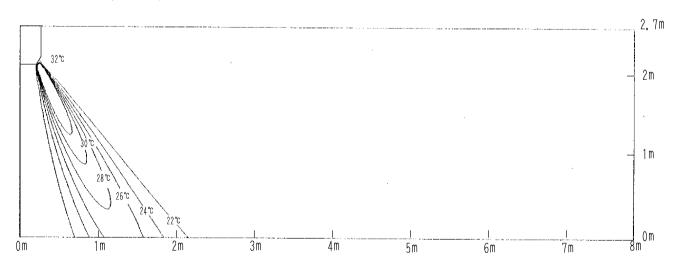
Air flow direction: 65°C (downward)



FAQ71BUV1B

Heating - air temperature distribution

Air flow direction: 65°C (downward)



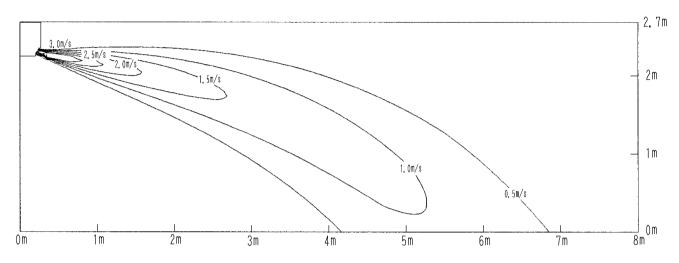
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FAQ100BUV1B

Cooling - air velocity distribution

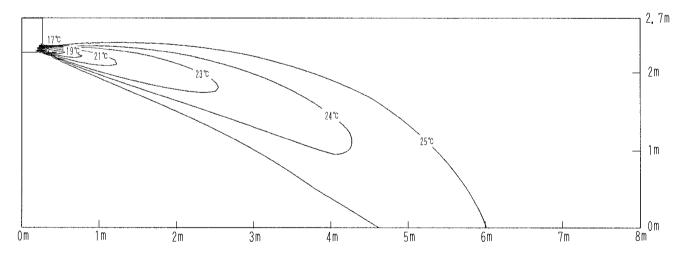
Air flow direction: 10° (downward)



FAQ100BUV1B

Cooling - air temperature distribution

Air flow direction: 10° (downward)



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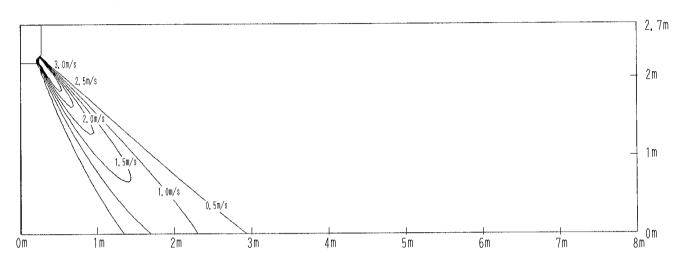


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FAQ100BUV1B

Heating - air velocity distribution

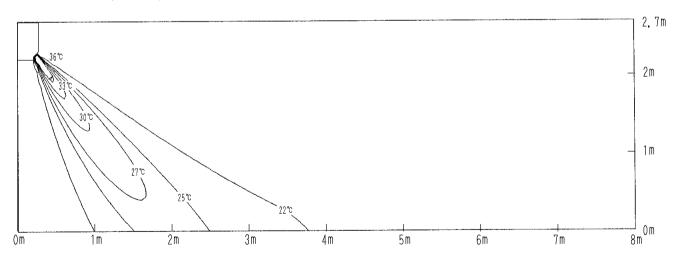
Air flow direction: 65°C (downward)



FAQ100BUV1B

Heating - air temperature distribution

Air flow direction: 65°C (downward)



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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)
Quantity	1 pc.	1 of each	2 pcs.	1 pc.	
Shape	意 意 臣 豆 豆 6. Screw x 12	2. For liquid pipe 3. For gas pipe	6		Installation manual Operation manual

8

8–2 Optional accessories

Optional accessories	FAQ71BUV1B	FAQ100BUV1B			
Remote control	ol Wired		BRC1D527		
	Infrared type	Heat pump	BRC7E618	BRC7C510W	
		Cooling only	BRC7E619	BRC7C511W	
Wiring adapter for electrical appendices (2)*	*KRF	*KRP4A51			
Installation box for adapter PCB	KRP4A93	-			
Central remote control	DCS3	DCS302C51			
Electrical box with earth terminal (3 blocks)	KJB.	KJB311A			
Unified ON/OFF control	DCS3	DCS301B51			
Electrical box with earth terminal (2 blocks)	KJB	KJB212A			
Noise filter (for electromagnetic interface use only)	KEK26-1	-			
Schedule timer	dule timer			DST301B51	
Interface adapter for Sky Air series	-	DTA112B51			
Remote sensor	KRCS01-1	-			
Drain up kit	K-KDU572CVE	-			
Connector for forced on, forced off	-	EKRORO			

Note:

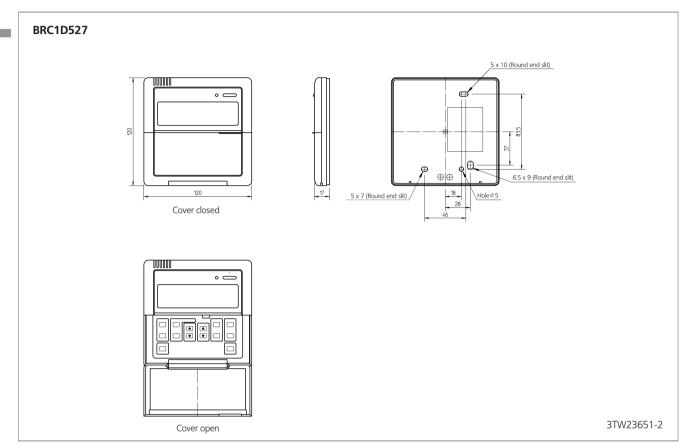
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1. Installation box (KRP4A93) is necessary for each adapter marked*

9 Control systems

9–1 Wired remote control





Safety device settings 10



FAQ71-100BUV1B

10

Model	Safety devices	FAQ71BUV1B	FAQ100BUV1B	
	Fuse	_	_	
FAQ~BUV1B	Fan motor thermal fuse (°C)	-	-	
1710 50015	Fan motor thermal protector (°C)	-	OFF: 130±5 ON: 83±20	

DU423-9101K

Installation 11

Names and functions of parts

- a Indoor unitb Outdoor unitc Infrared remote control
- Inlet air
- @ Discharged air
- f 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.

 (S) Ground wire

Wire to ground from the outdoor unit to prevent electrical shocks.

