

Air Conditioners

Technical Data

SkyAir®

Wall Mounted Unit



EEDEN10-100



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EEDEN10-100

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FAQ-BVV1B

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1 Features

- Lightweight and compact
- Ideal for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- Fits neatly on a wall
- Nice design and very compact casing
- Both horizontal flaps and front panel can easily be removed and washed
- Auto-swing function ensures efficient air distribution via louvers that close automatically when the unit is switched off
- Extremely quiet in operation
- Easy to install
- 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.



heat pump

optional

2 steps

optional



optional

2 Specifications

2-1 FOR INDOOR UNITS ONLY			FAQ71BVV1B	FAQ100BVV1B
Nominal Input	Cooling	kW	0.068	0.101
	Heating	kW	0.068	0.101

2-2 TECHNICAL SPECIFICATIONS				FAQ71BVV1B		FAQ100BVV1B	
Casing	Colour			White			
	Material			Resin			
Dimensions	Packing	Height	mm	366		483	
		Width	mm	1147		1740	
		Depth	mm	337		299	
	Unit	Height	mm	290		360	
		Width	mm	1050		1570	
		Depth	mm	230		200	
Weight	Unit		kg	13.0		26.0	
	Packed Unit		kg	17.0		34.0	
Heat Exchanger	Dimensions	Length	mm	863		1320	
		Nr of Rows		2		2	
		Fin Pitch	mm	1.40		1.40	
		Nr of Passes		4		9	
		Face Area	m²	0.289		0.332	
		Nr of Stages		16		12	
		Empty Tubeplate Hole				2	
	Tube type		Hi-XA		N-Hix		
	Fin	Type	Cross fin coil (Multi louver fins and HI-XA tubes)		Cross fin coil (Multi louver fins and N-hix tubes)		
Fan	Type			Cross flow fan			
	Quantity			1		1	
Air Flow Rate	Cooling	High	m³/min	19.0		23.0	
		Low	m³/min	15.0		19.0	
	Heating	High	m³/min	19.0		23.0	
		Low	m³/min	15.0		19.0	
Fan	Motor	Quantity		1		1	
		Model		QCL9686M		QCL1163MA+QCL1163MB	
		Number of steps		2		2	
		Output (high)	W	43		49	
Cooling	Sound Power	High	dBA	59.0		61.0	
		Low	dBA	53.0		57.0	
	Sound Pressure	High	dBA	43.0		45.0	
		Low	dBA	37.0		41.0	
Heating	Sound Power	High	dBA	59.0		61.0	
		Low	dBA	53.0		57.0	
	Sound Pressure	High	dBA	43.0		45.0	
		Low	dBA	37.0		41.0	
Refrigerant	Type			R-410A			
Piping connections	Liquid (OD)	Type		Flare connection			
		Diameter (OD)	mm	9.5		9.5	
	Gas	Type		Flare connection			
		Diameter (OD)	mm	15.9		15.9	
	Drain	Diameter (OD)	mm	VP13 (I.D. 13/O.D. 18)		VP20 (I.D. 20/O.D. 26)	
	Heat Insulation			Foamed polystyrene/polyethylene			
Safety Devices						PC board fuse	

2 Specifications

2-2 TECHNICAL SPECIFICATIONS		FAQ71BVV1B	FAQ100BVV1B
Standard Accessories	Item	Installation and operation manual	
	Quantity	1	1
	Item	Paper pattern for installation	
		Insulation tape	
		Installation panel	
		Screws	
			Insulation for fitting
Notes	The sound pressure level is measured via a microphone at 1m distance of the unit.		
	Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to sound level drawings of this chapter.		
	The sound power level is an absolute value indicating the power which a sound source generates.		

2-3 ELECTRICAL SPECIFICATIONS			FAQ71BVV1B	FAQ100BVV1B
Power Supply	Phase		V1	V1
	Frequency	Hz	50	50
	Voltage	V	220-240	
Power Supply Intake			Outdoor unit only	

3 Safety device settings

FAQ71-100B

Model	Safety devices	FAQ71B	FAQ100B
FAQ~B	Fuse	—	—
	Fan motor thermal fuse (°C)	—	—
	Fan motor thermal protector (°C)	—	OFF: 130±5 ON: 83±20

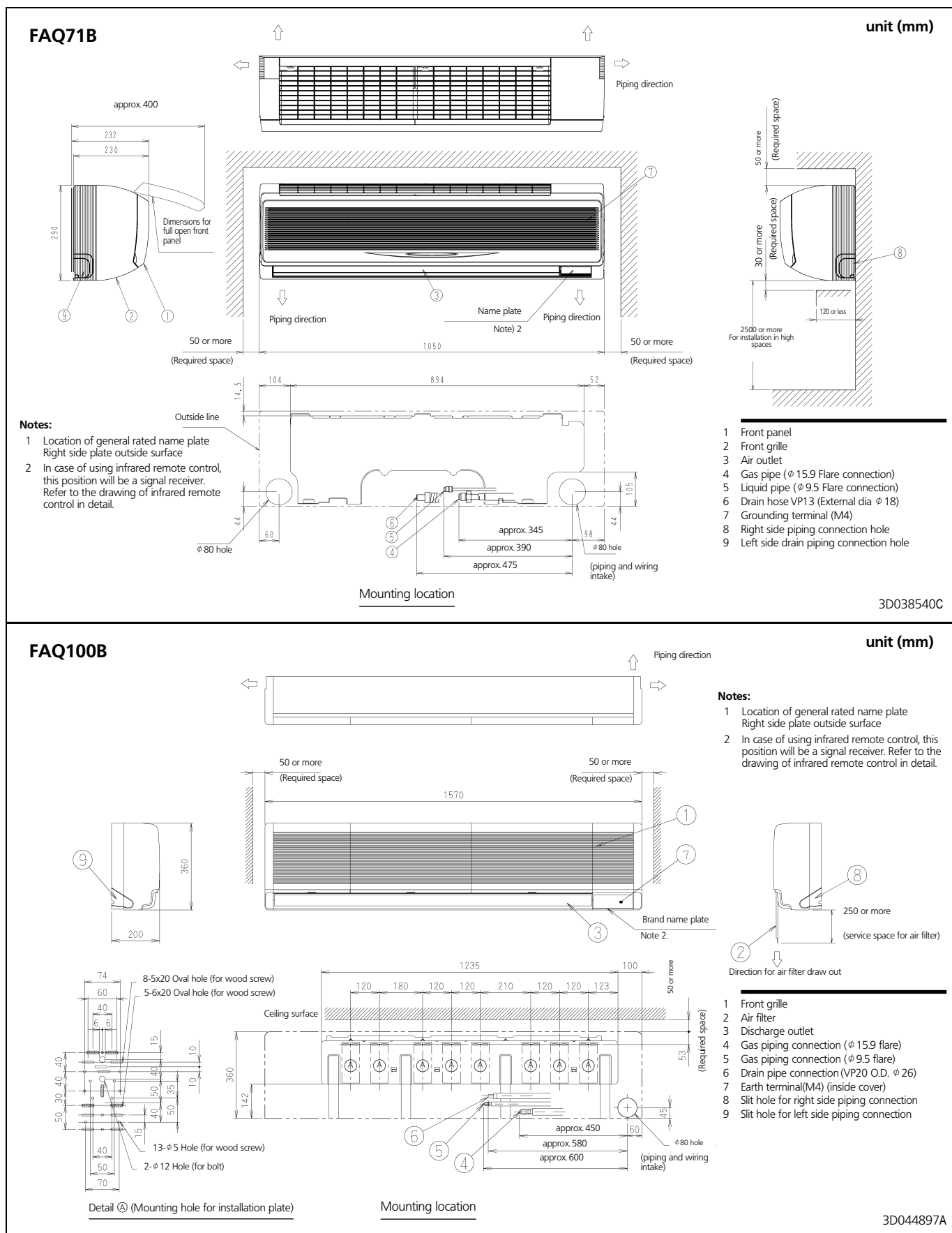
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4 Options

Optional accessories			FAQ71B	FAQ100B
Remote control	Wired		BRC1D528	
	Infrared type	Heat pump	BRC7EA618	BRC7CA510W
		Cooling only	BRC7EA619	BRC7CA511W
Wiring adapter for electrical appendices (2)*			*KRP4AA51	
Installation box for adapter PCB			KRP4AA93	-
Central remote control			DCS302CA51	
Electrical box with earth terminal (3 blocks)			KJB311AA	
Unified ON/OFF control			DCS301BA51	
Electrical box with earth terminal (2 blocks)			KJB212AA	
Noise filter (for electromagnetic interface use only)			KEK26-1A	-
Schedule timer			DST301BA51	
Interface adapter for Sky Air series			-	DTA112BA51
Remote sensor			KRCS01-1A	-
Drain up kit			K-KDU572CVE	-
Connector for forced on, forced off			-	EKROR0A
Note:				
1. Installation box (KRP4AA93) is necessary for each adapter marked*				
			3D044482B	

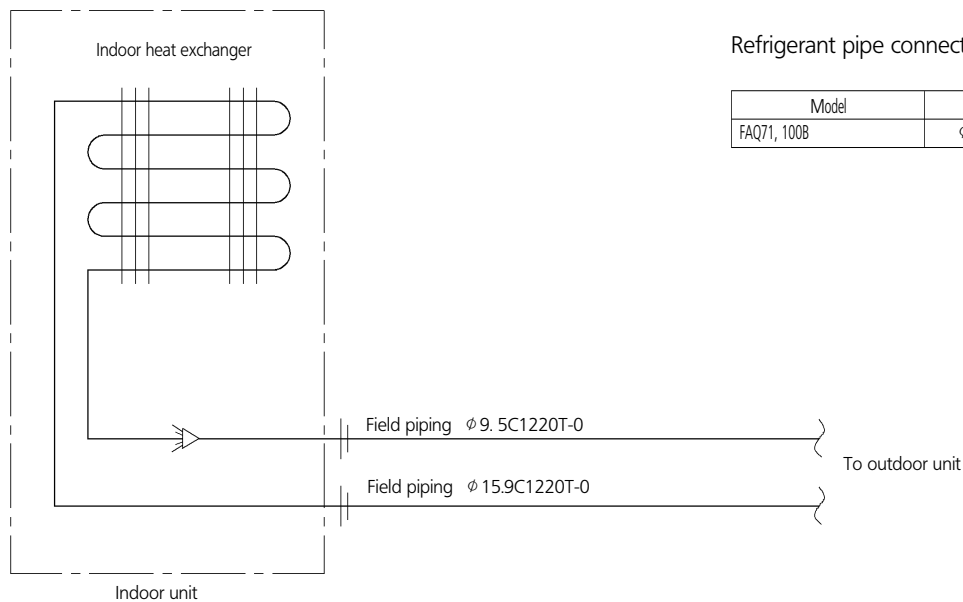
5 Dimensional drawing & centre of gravity

5 - 1 Dimensional drawing



6 Piping diagram

FAQ71-100B



Refrigerant pipe connection port diameters

Model	A	B
FAQ71, 100B	φ 9.5	φ 15.9

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

4D037995H

7 Wiring diagram

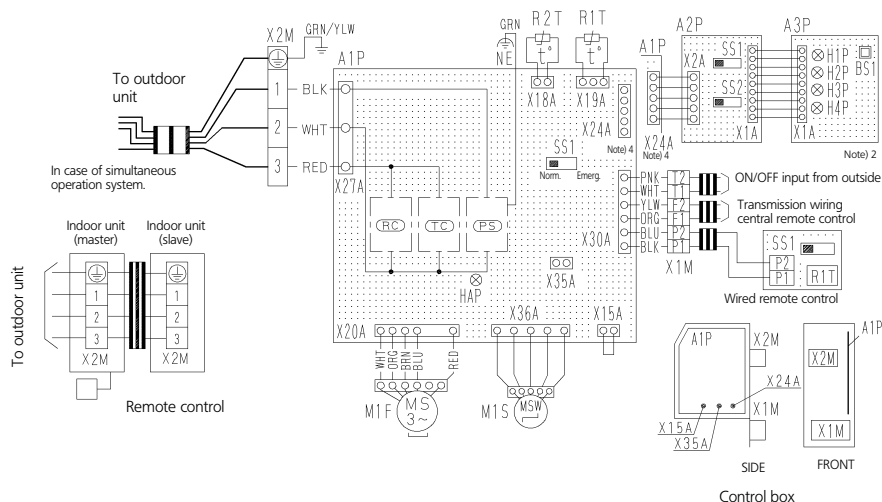
7 - 1 Wiring diagram

FAQ71B

Receiver / display unit (attached to infrared remote control)

Notes

1. : Terminal, : Connector, : Field wiring
2. In case using central remote control, connect it to the unit in accordance with the attached instruction manual.
3. Remote control model varies according to the combination system, confirm technical materials and catalogs, etc. before connecting.
4. X24A is connected when the infrared remote control kit is being used.
5. Shows short circuit connector
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, etc.



A1P	Printed circuit board	Infrared remote control	
HAP	Light emitting diode (service monitor green)	Receiver / display unit	
M1S	Motor (swing flap)	A2P	Printed circuit board
M1F	Motor (indoor fan)	A3P	Printed circuit board
R1T	Thermistor (air)	BS1	Push button (on/off)
R2T	Thermistor (coil)	H1P	Light emitting diode (on-red)
SS1	Selector switch (emergency)	H2P	Light emitting diode (timer-green)
X1M	Terminal block	H3P	Light emitting diode (filter sign-red)
X2M	Terminal block	H4P	Light emitting diode (defrost-orange)
PS	Power supply	SS1	Selector switch (main/sub)
RC	Signal receiver circuit	SS2	Selector switch (wireless address set)
TC	Signal transmission circuit		

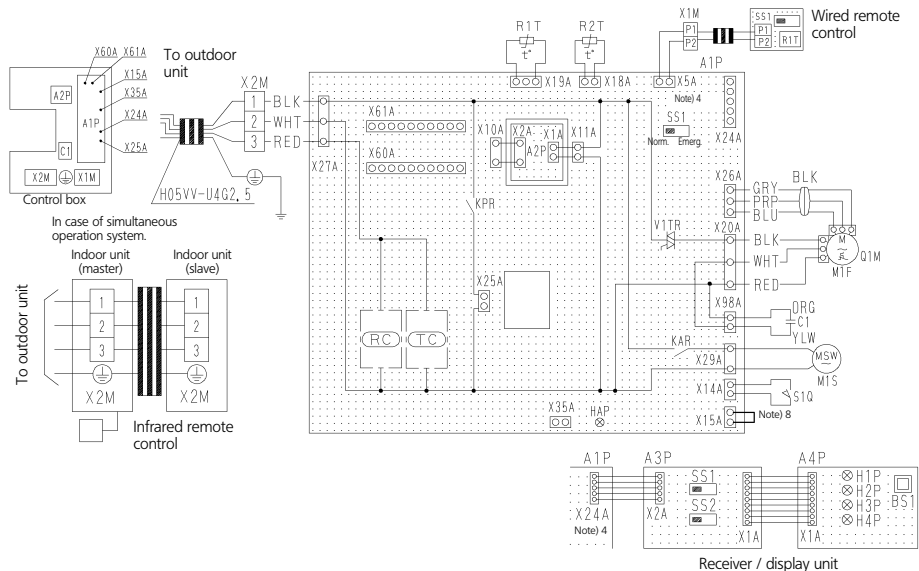
Connector for optional parts	
X15A	Connector (float switch)
X35A	Connector (group control adapter)
Wired remote control	
R1T	Thermistor (air)
SS1	Selector switch (main/sub)

3D043881A

FAQ100B

Notes

1. : Terminal, : Connector, : Field wiring
2. In case using central remote control, connect it to the unit in accordance with the attached instruction manual.
3. Remote control model varies according to the combination system, confirm technical materials and catalogs, etc. before connecting.
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, etc.
8. X15A, X25A are connected when the drain kit is being used. Connect it to the kit in accordance with the attached installation manual.



A1P	Printed circuit board	S1Q	Limit switch (swing flap)
A2P	Printed circuit board (Transformer 230V/16V)	SS1	Selector switch (emergency)
C1R	Capacitor (M1F)	V1TR	Phase control circuit
HAP	Light emitting diode (service monitor green)	X1M	Terminal block
KAR	Magnetic relay (M1S)	X2M	Terminal block
KPR	Magnetic relay (M1P)	RC	Signal receiver circuit
M1F	Motor (indoor fan)	TC	Signal transmission circuit
M1S	Motor (swing flap)	Wired remote control	
Q1M	Thermo switch (M1F embedded)	R1T	Thermistor (air)
R1T	Thermistor (air)	SS1	Selector switch (main/sub)
R2T	Thermistor (coil)		

Infrared remote control	
Receiver / display unit	
A3P	Printed circuit board
A4P	Printed circuit board
BS1	Push button (on/off)
H1P	Light emitting diode (on-red)
H2P	Light emitting diode (timer-green)
H3P	Light emitting diode (filter sign-red)
H4P	Light emitting diode (defrost-orange)
SS1	Selector switch (main/sub)
SS2	Selector switch (wireless address set)

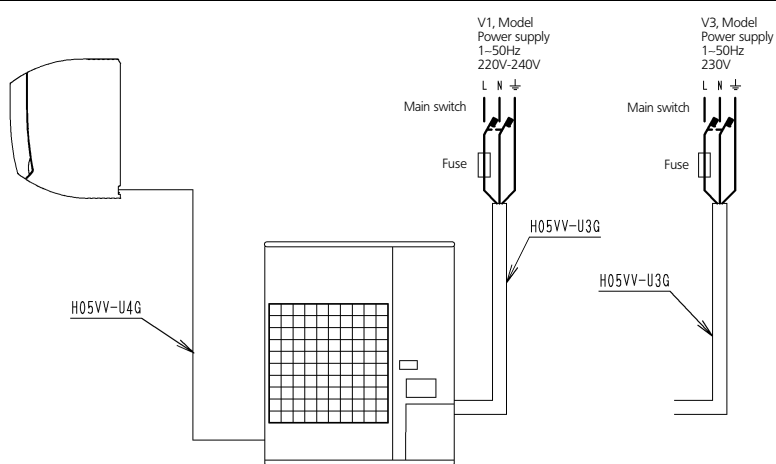
Connector for optional parts	
X15A	Connector (float switch)
X25A	Connector (drain pump)
X35A	Connector (group control adapter)
X16A	Connector (interface adapter for sky air series)
X61A	

Receiver / display unit

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7 Wiring diagram

7 - 2 External connection diagram



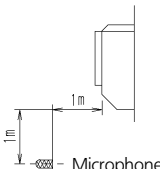
NOTES

- 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 main switch 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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8 Sound data

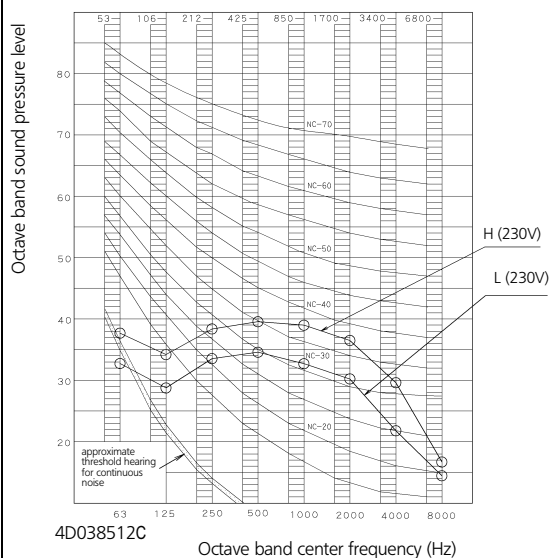
8 - 1 Sound level data

Model	Sound pressure level			 Measuring location	Sound power level	
	230V				Cooling H/L	Heating H/L
	50Hz					
	Cooling H/L	Heating H/L				
FAQ71B	43/37	43/37		45/41	45/41	
FAQ100B	59/53	59/53		61/57	61/57	

8 Sound data

8 - 2 Sound pressure spectrum

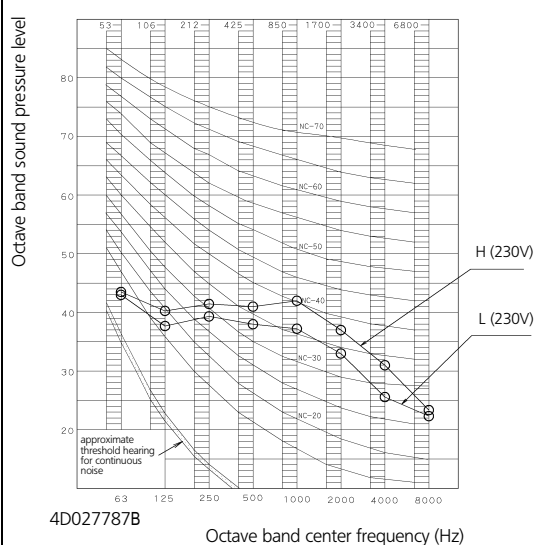
FAQ71B (Cooling/Heating)



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.

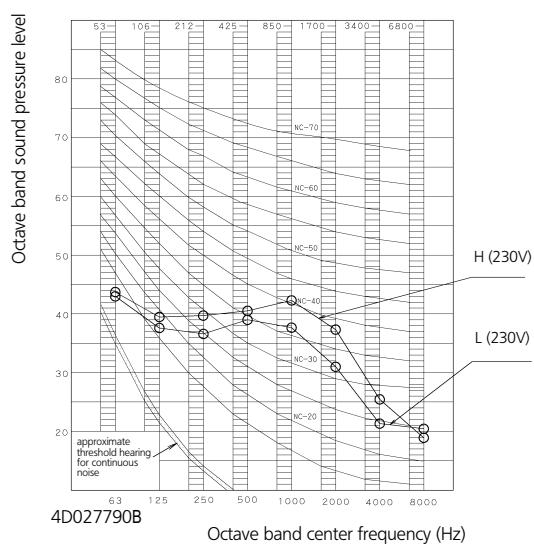
FAQ100B (Cooling)



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.

FAQ100B (Heating)



Note:

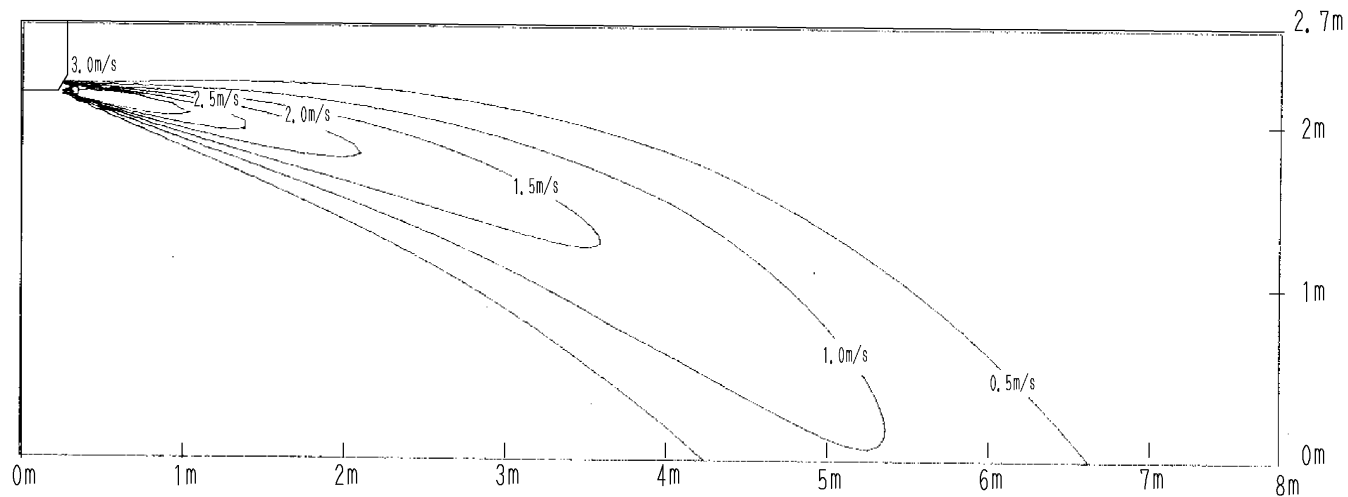
1. Sound pressure levels are measured in an anechoic room.
2. Data are valid at nominal operation conditions.
3. Operation sound level differs with operation and ambient conditions.

9 Air flow pattern

FAQ71B

Cooling - air velocity distribution

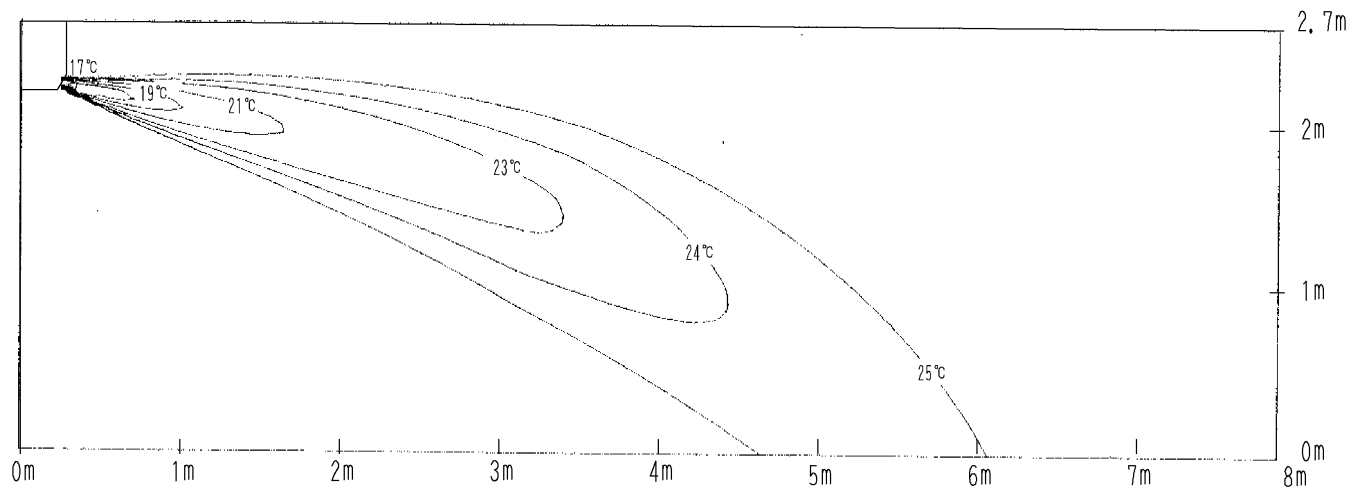
Air flow direction: 10° (downward)



FAQ71B

Cooling - air temperature distribution

Air flow direction: 10° (downward)



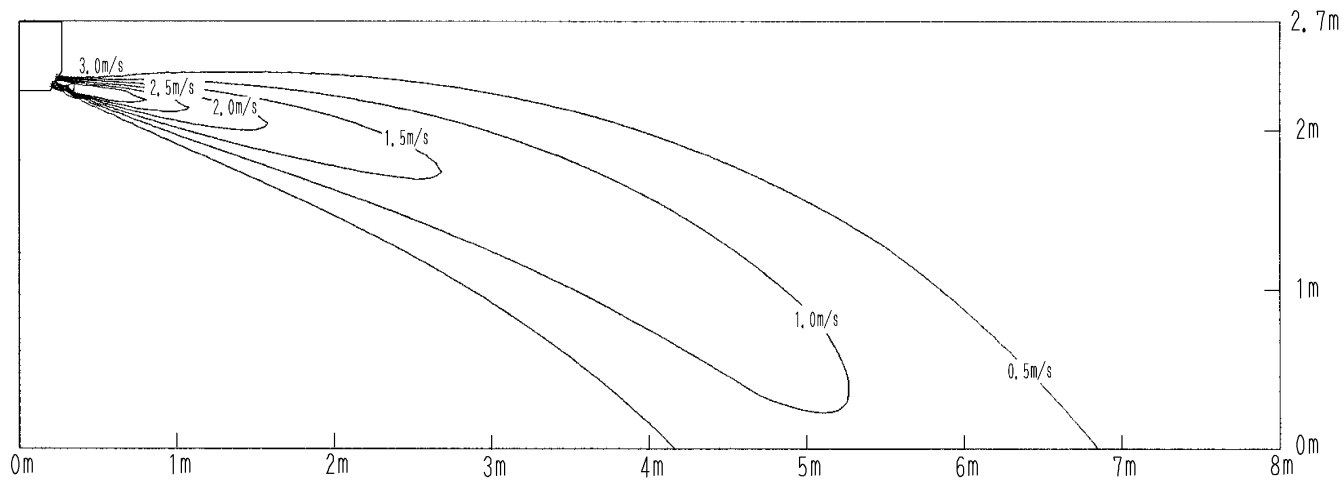
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9 Air flow pattern

FAQ100B

Cooling - air velocity distribution

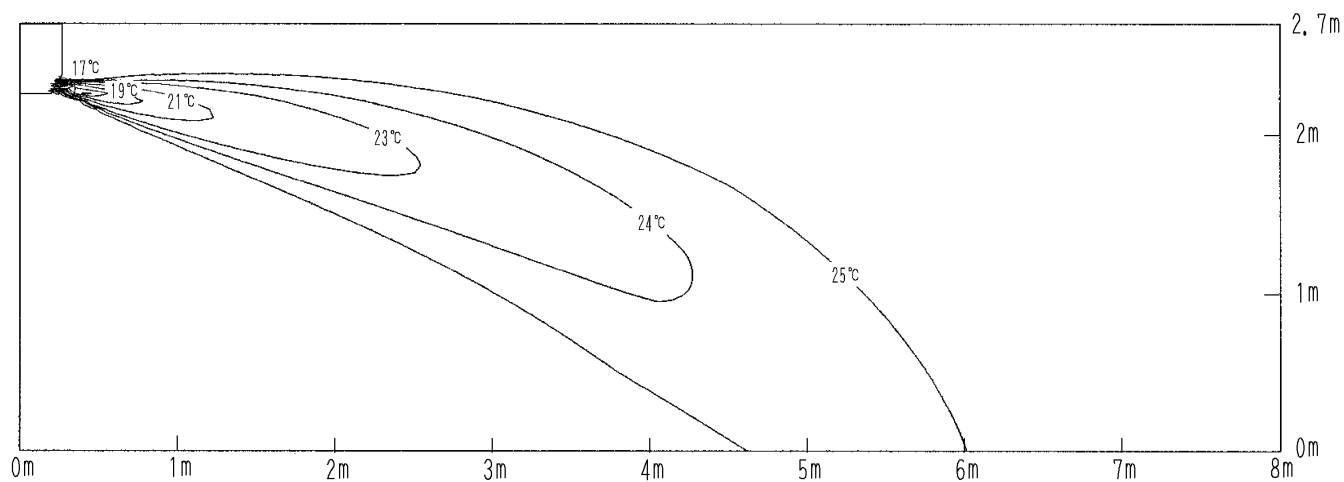
Air flow direction: 10° (downward)



FAQ100B

Cooling - air temperature distribution

Air flow direction: 10° (downward)



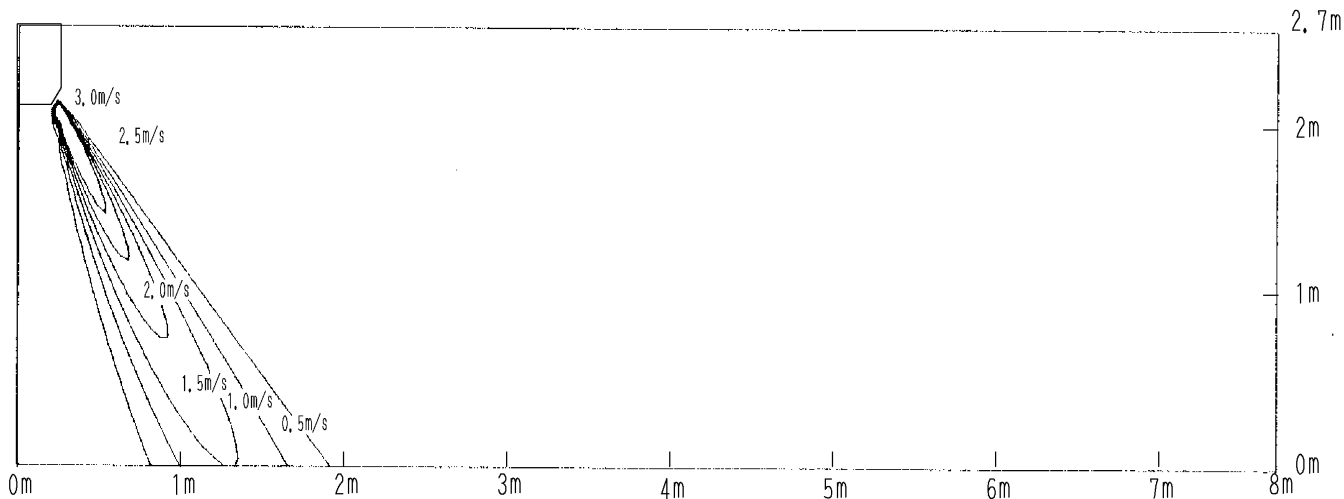
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9 Air flow pattern

FAQ71B

Heating - air velocity distribution

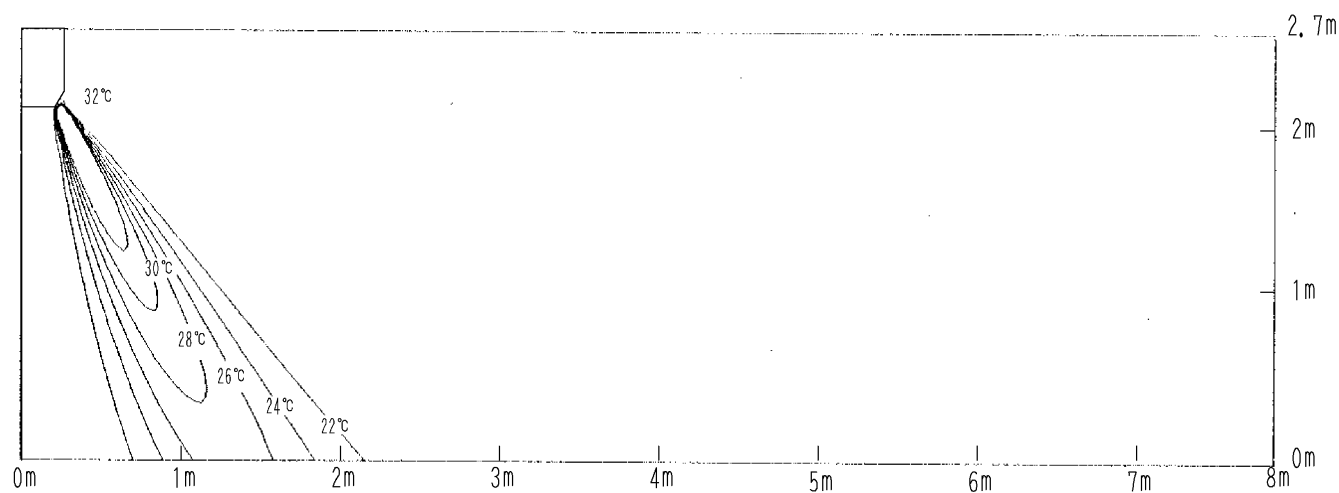
Air flow direction: 65°C (downward)



FAQ71B

Heating - air temperature distribution

Air flow direction: 65°C (downward)



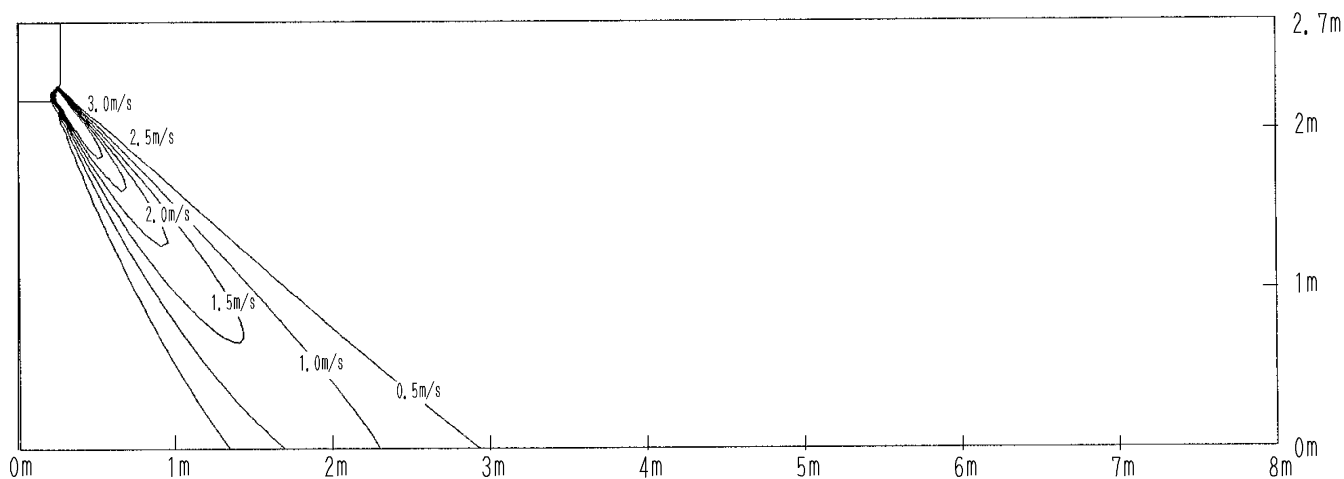
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9 Air flow pattern

FAQ100B

Heating - air velocity distribution

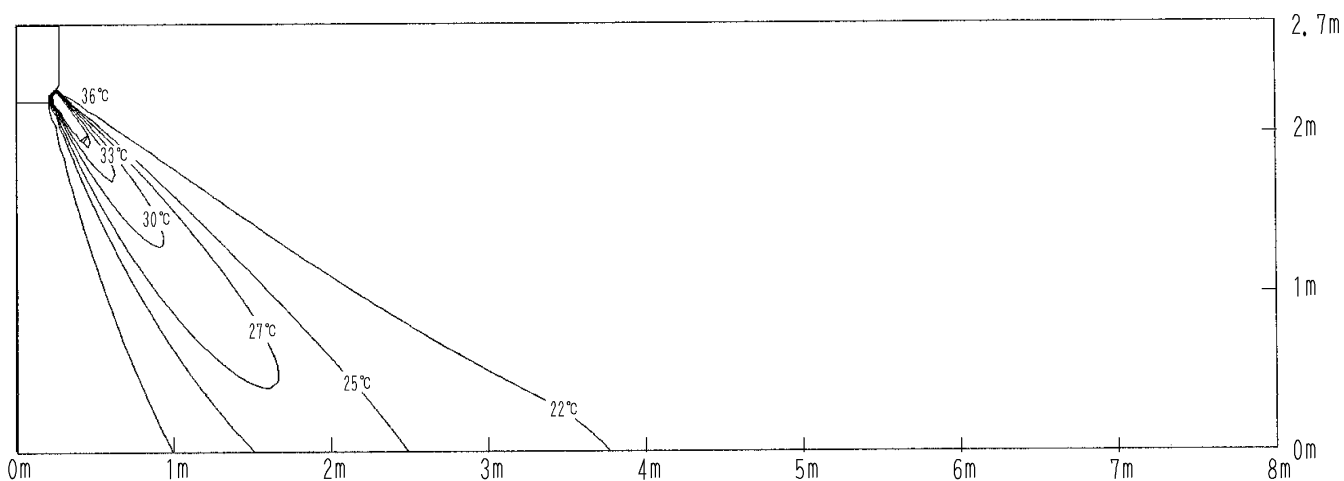
Air flow direction: 65°C (downward)



FAQ100B

Heating - air temperature distribution

Air flow direction: 65°C (downward)



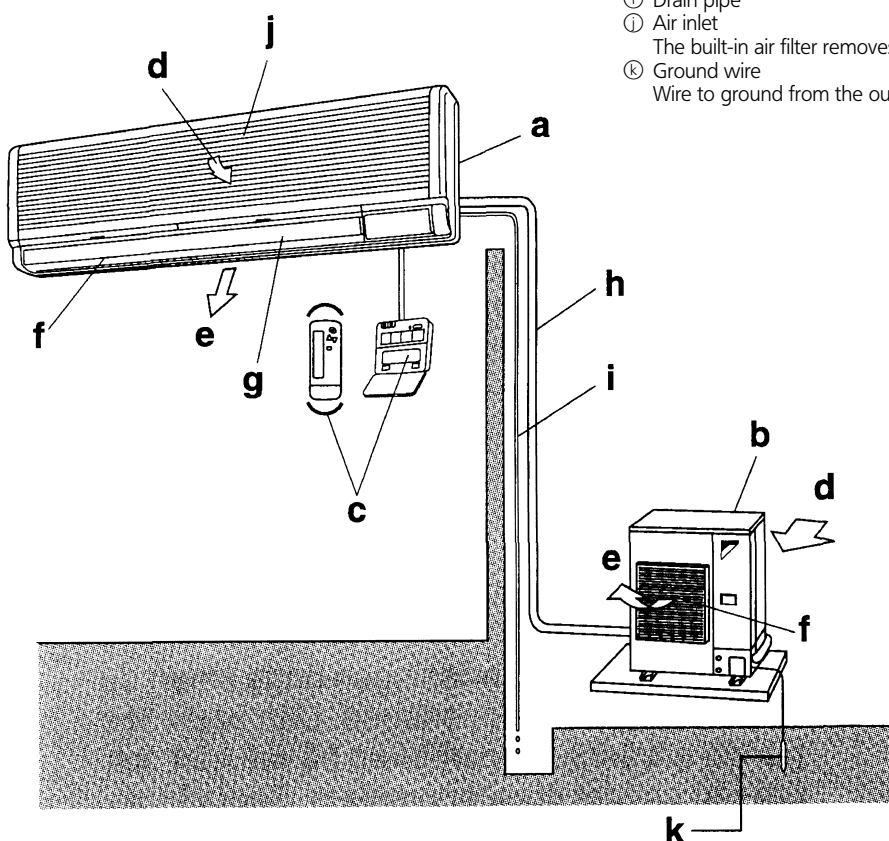
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10 Installation

10 - 1 Installation method

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.





Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



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