

technical data

FCQ-D

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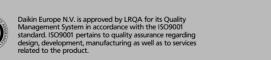
4-way Blow Ceiling Mounted Cassette (950mm x 950mm) air conditioning systems

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. 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.

DAIKIN EUROPE N.V.

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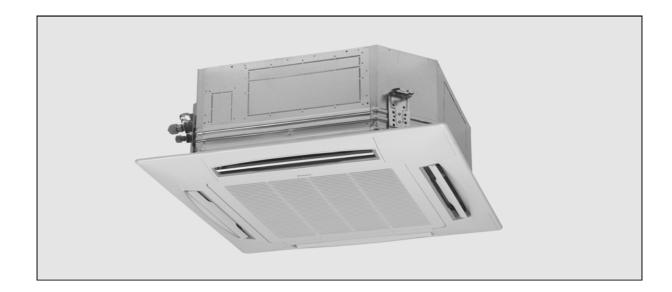
FCQ-D

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1 Features

- 1
- Compact & stylish
- Ideal for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- · Fits flush into each ceiling
- Extremely quiet in operation
- Air can be discharged in any of 4 directions
- Possibility to shut 1 or 2 flaps for easy installation in corners or to use 1 or 2 branches
- Air flow distribution for ceiling heights up to 4.2m without loss of capacity.
- 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)













(2 steps)



(optional)

(heat pump)







(standard)





(twin application only)

(optional)

2 Specifications

2-1 NOMINAL CAPACITY AND POWER INPUT									
For indoor units only:									
INDOOR UNITS			FCQ71DV3B	FCQ100DV3B	FCQ125DV3B	FCQ140DV3B			
NOMINAL INPUT	PUT Cooling kW		-	-	-	-			
	Heating	kW	-	-	-	-			

For combination indoor + outdoor units (air cooled):								
INDOOR UNITS				FCQ71DV3B	FCQ100DV3B	FCQ125DV3B	FCQ140DV3B	
OUTDOOR UNITS				RZQ71B8V3B	RZQ100B8V3B/B7W1B	RZQ125B7W1B	RZQ140B7W1B	
Nominal capacity	Cooling	nominal	kW	3.2~7.1~8.0	5.0~10.0~11.2	5.7~12.5~14.0	6.2~14.0~15.4	
	Heating	nominal	kW	3.5~8.0~9.0	5.1~11.2~12.8	6.0~14.0~16.2	6.2~16.0~18.0	
Nominal input	Cooling	nominal	kW	1.98	2.44	3.54	4.56	
	Heating	nominal	kW	1.97	2.56	3.59	4.52	
EER				3.59	4.10	3.53	-	
COP				4.06	4.375	3.90	-	
Energy label	Cooling			А	А	А	-	
	Heating			А	А	А	-	
Annual energy consumption	Cooling kWh		990	1,220	1,770	-		

2-2 TECHN	ICAL SPECIFICA	TIONS		FCQ71DV3B	FCQ125DV3B FCQ140D			
Dimensions	Unit	Height	mm	246	288	288	288	
		Width	mm	840	840	840	840	
		Depth	mm	840	840	840	840	
Weight	Machine Weight	•	kg	24.0	28.0	28.0	28.0	
Heat Exchanger	Dimensions	Nr of Rows	•	2	2	2	2	
		Fin Pitch	mm	1.20	1.20	1.20	1.20	
		Face Area	m ²	0.454	0.544	0.544	0.544	
		Nr of Stage	S	10	12	12	12	
	Tube type			<u></u>	Hi-)	(SS (7)		
	Fin	Туре			Cross fin coil (Multi lou	ver fins and Hi-XSS tubes)		
Fan	Туре	1			Tur	bo fan		
Air Flow Rate	Cooling	High	m³/min	19.0	30.0	30.0	30.0	
		Low	m³/min	14.0	21.0	24.0	25.0	
	Heating	High	m³/min	19.0	30.0	30.0	30.0	
		Low	m³/min	14.0	21.0	24.0	25.0	
Fan	Motor	Model		QTS46F15M	QTS46E17M	QTS46E17M	QTS46E17M	
		Output (high)	W	30	120	120	120	
Cooling	Sound Power	High	dBA	50.0	58.0	58.0	58.0	
· ·		Low	dBA	44.0	48.0	51.0	53.0	
	Sound Pressure	High	dBA	34.0	43.0	43.0	43.0	
		Low	dBA	28.0	33.0	36.0	38.0	
Heating	Sound Power	High	dBA	50.0	58.0	58.0	58.0	
•		Low	dBA	44.0	48.0	51.0	53.0	
	Sound Pressure	High	dBA	34.0	43.0	43.0	43.0	
		Low	dBA	28.0	33.0	36.0	38.0	
Refrigerant	Туре	+		Į.	R-	410A		
Piping	Liquid (OD)	Туре		Flare connection				
connections		Diameter (OD)	mm	9.5	9.5	9.5	9.5	
	Gas	Туре	1	Flare connection				
		Diameter (OD)	mm	15.9	15.9	15.9	15.9	
	Drain	Diameter (OD)	mm		I.D. 25	5/O.D. 32		

2-2 TECHNIC	CAL SPECIFIC	ATIONS		FCQ71DV3B	FCQ100DV3B	FCQ125DV3B	FCQ140DV3B		
Decoration Panel	Model			BYCP125DJW1					
	Colour			White					
	Dimensions	Н	mm	45	45	45	45		
		W	mm	950	950	950	950		
		D	mm	950	950	950	950		
	Weight		kg	5.5	5.5	5.5	5.5		
Air Filter				Resin net with mold resistance					
Safety Devices				_	Low pressure switch				
				High pressure switch					
					Fu	se	_		

2-3 ELECTRI	CAL SPECIFICATIONS		FCQ71DV3B	FCQ100DV3B	FCQ125DV3B	FCQ140DV3B
Power Supply	Name		V3	V3	V3	V3
	Phase		1	1	1	1
	Frequency	Hz	50	50	50	50
	Voltage	٧	230	230	230	230

Notes

- 1 Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 7.5m, level difference: 0m.
- 2 Nominal heating capacities are based on : indoor temperature : 20°CDB, outdoor temperature : 7°CDB, 6°CWB, equivalent refrigerant piping : 7.5m, level difference : 0m.
- 3 Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
- 4 In case of drain piping for the outdoor unit, a drain piping kit (option) is needed.

3 Options

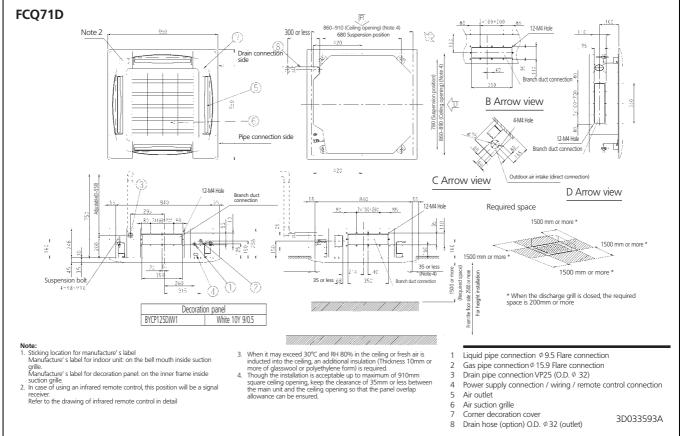
Mode	el	FCQ71D	FCQ100D	FCQ125D	FCQ140D		
<u> </u>		BYCP125DJW1					
		KDBP55H160WA					
High efficiency filter 65%	Colorimetric method	KAFP556D80		KAFP556D160			
High efficiency filter 90%	Colorimetric method	KAFP557D80 KAFP557D160					
Replacement high effiency filter 65%	Colorimetric method	KAFP552H80	KAFP552H160				
Replacement high effiency filter 90%	Colorimetric method	KAFP553H80		KAFP553H160			
Filter chamber			KDDFP	55D160			
Long life filter			KAFJ5	51C160			
Ultra long-life filter			KAFP55D160				
Replacement ultra long-life filter		KAFJ55K160H					
Chamber type	Without T-shape and fan	KDDP55D160					
	With T-shape, without fan	KDDP55D160K					
Direct installation type	KDDJ55X160						
		KDP55D80 KDP55D160					
lity		KDT-55D80	KDT-55D160				
Infrared		BRC7E51W					
Wired		BRC1D527					
		DCS302C51					
		DCS301B51					
		DST301B51					
		KRP1B59					
appendices *1		KRP4A53					
PCB		KRP1D98					
	High efficiency filter 65% High efficiency filter 90% Replacement high effiency filter 65% Replacement high effiency filter 90% Filter chamber Long life filter Ultra long-life filter Replacement ultra long-life filter Chamber type Direct installation type Infrared Wired appendices *1	High efficiency filter 90% Replacement high effiency filter 65% Colorimetric method Replacement high effiency filter 90% Colorimetric method Filter chamber Long life filter Ultra long-life filter Replacement ultra long-life filter Chamber type Without T-shape and fan With T-shape, without fan Direct installation type	High efficiency filter 65% High efficiency filter 90% Replacement high effiency filter 65% Replacement high effiency filter 90% Colorimetric method KAFP552H80 Replacement high effiency filter 90% Filter chamber Long life filter Ultra long-life filter Replacement ultra long-life filter Chamber type Without T-shape and fan With T-shape, without fan Direct installation type KDP55D80 Infrared Wired	BYCP1 KDBP55 KDBP55 High efficiency filter 65% High efficiency filter 90% Colorimetric method KAFP55D80 Replacement high efficiency filter 65% Replacement high efficiency filter 90% Replacement high efficiency filter 90% Colorimetric method KAFP552H80 Filter chamber KDDFF Long life filter Ultra long-life filter KAFJ5 Ultra long-life filter KAFJ5 Chamber type Without T-shape and fan With T-shape, without fan KDDP5 Direct installation type KDDJ9 KDDP5D80 Infrared Wired BRC	BYCP125DM11 KDBP55H160WA High efficiency filter 65% Colorimetric method KAFP556D80 KAFP556D160 High efficiency filter 90% Colorimetric method KAFP557D80 KAFP557D160 Replacement high efficiency filter 65% Colorimetric method KAFP552H80 KAFP552H160 Replacement high efficiency filter 90% Colorimetric method KAFP553H80 KAFP553H160 Filter thamber KDDFP55D160 Long life filter KAFP551H60 Ultra long-life filter KAFP551H60 Replacement ultra long-life filter KAFP55D160 Chamber type Without T-shape and fan KDDP55D160 Direct installation type KDDF55D160 KDP55D160 KDF55D160 KDF55D160 KDF55D160 KDF55D160 KDF55D160 KDF55D160 KDF55D160 KDF55D160 KDF5D160 KDF55D160 KDF55D160		

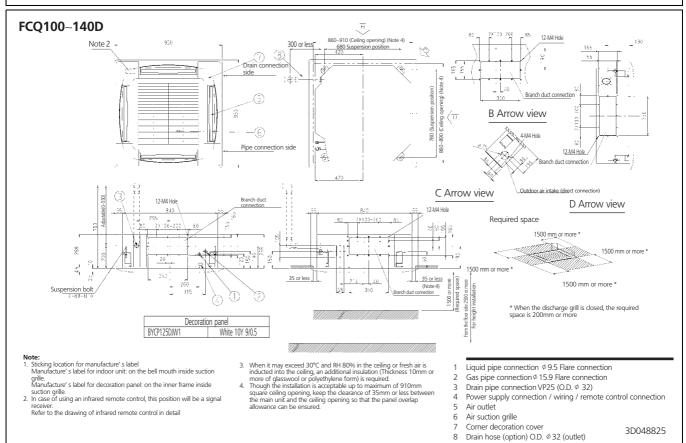
^{*1} Installation box for adapter PCB (KRP1D98) is necessary

4 Dimensional drawing

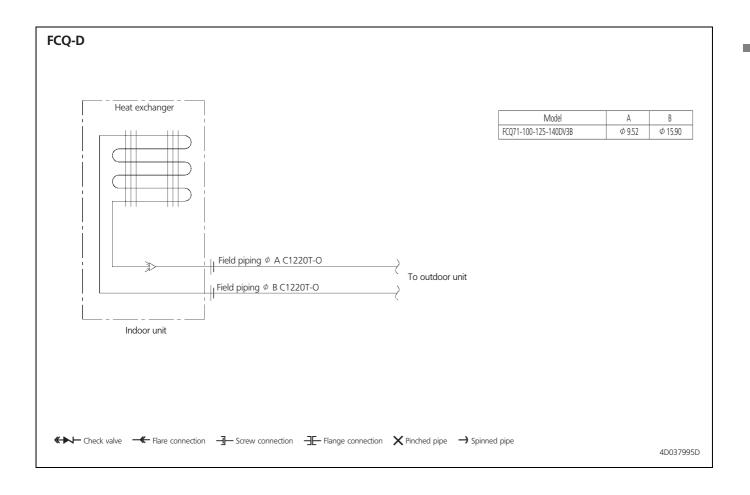
4 - 1 Dimensional drawing

4





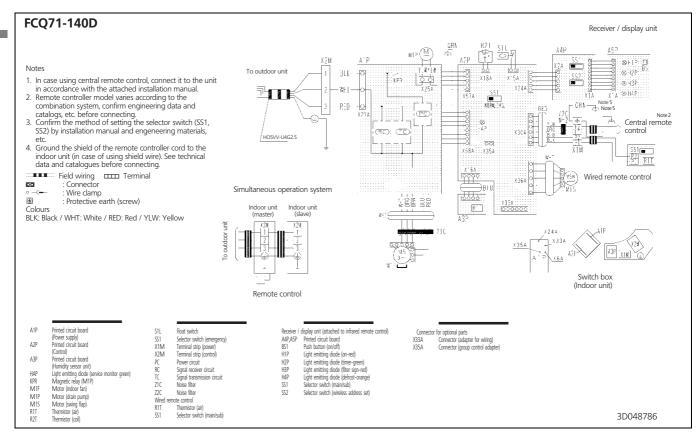
5 Piping diagram



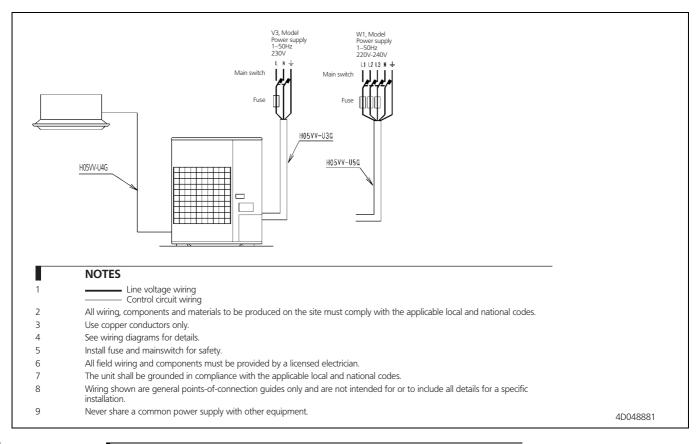
6 Wiring diagram

6 - 1 Wiring diagram

6



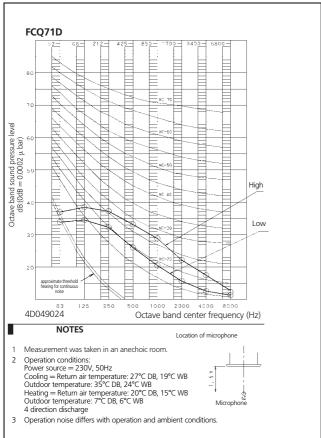
6 - 2 External connection diagram

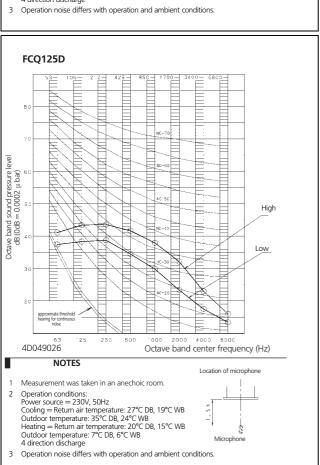


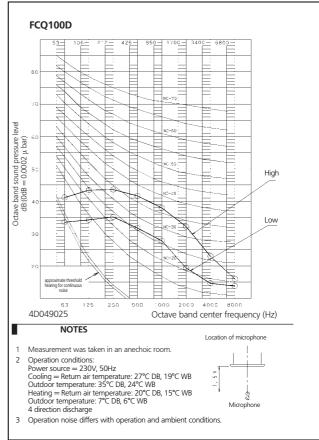
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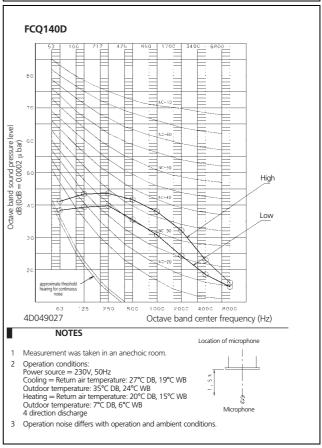
7 Sound data

7 - 1 Sound pressure spectrum





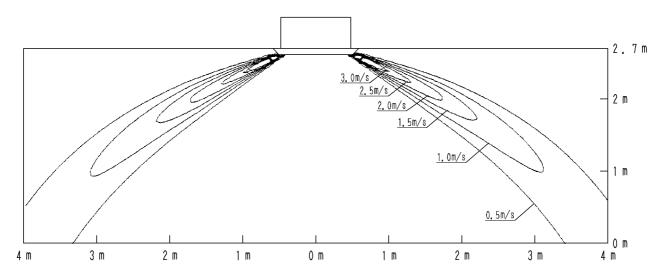




8 FCQ71D

Cooling - air velocity distribution

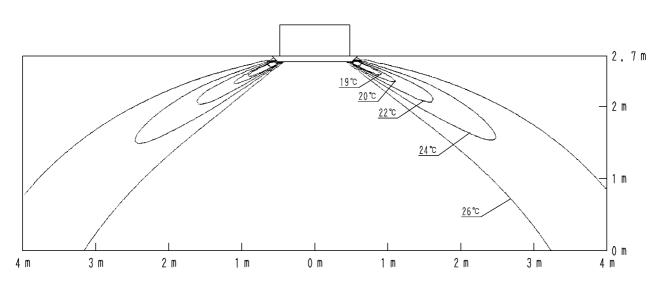
4-way discharge air flow direction: horizontal



FCQ71D

Cooling - air temperature distribution

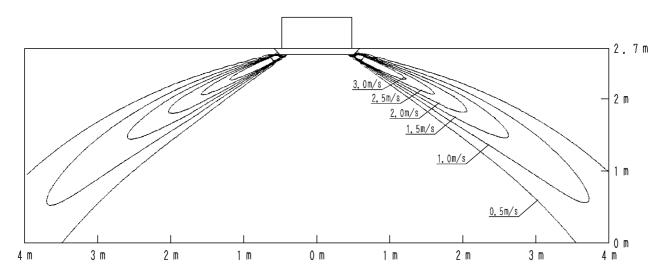
4-way discharge air flow direction: horizontal



FCQ100D

Cooling - air velocity distribution

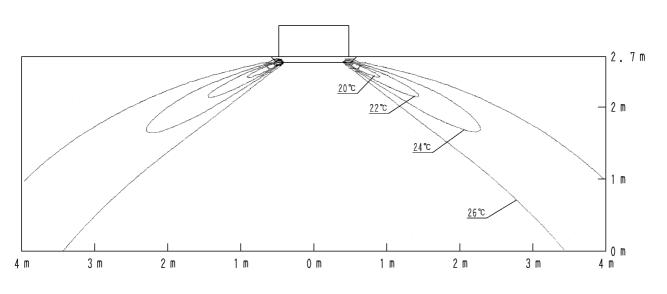
4-way discharge air flow direction: horizontal



FCQ100D

Cooling - air temperature distribution

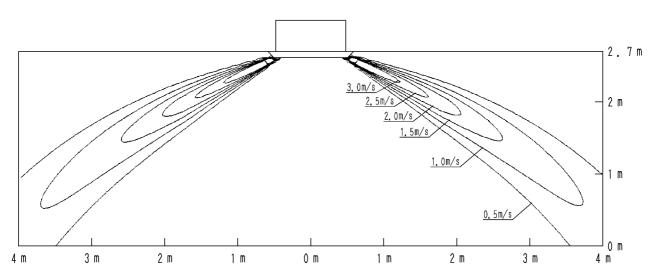
4-way discharge air flow direction: horizontal



8 FCQ125D

Cooling - air velocity distribution

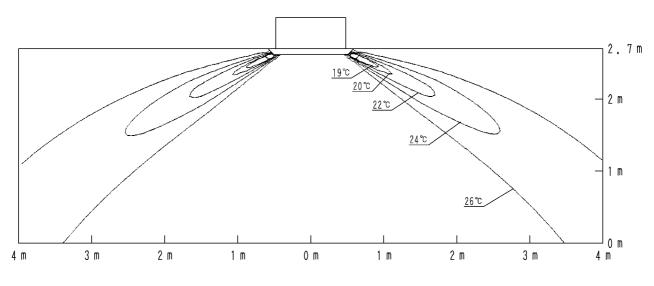
4-way discharge air flow direction: horizontal



FCQ125D

Cooling - air temperature distribution

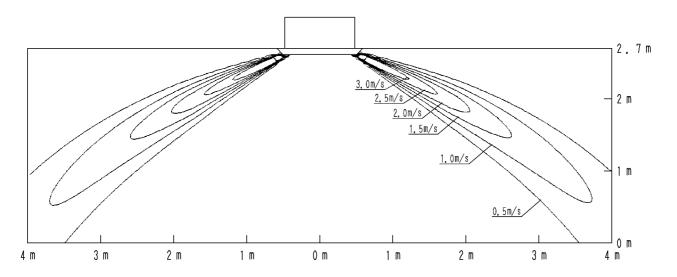
4-way discharge air flow direction: horizontal



FCQ140D

Cooling - air velocity distribution

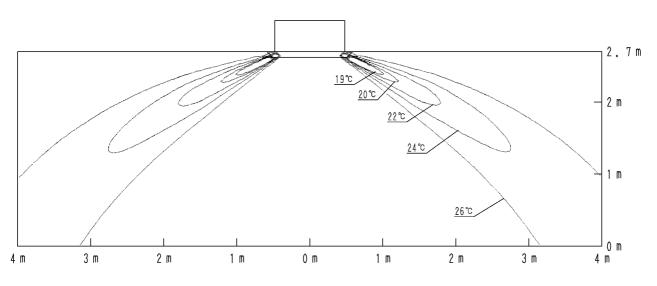
4-way discharge air flow direction: horizontal



FCQ140D

Cooling - air temperature distribution

4-way discharge air flow direction: horizontal

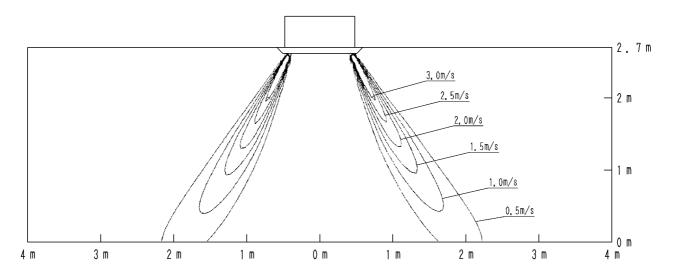


8

FCQ71D

Heating - air velocity distribution

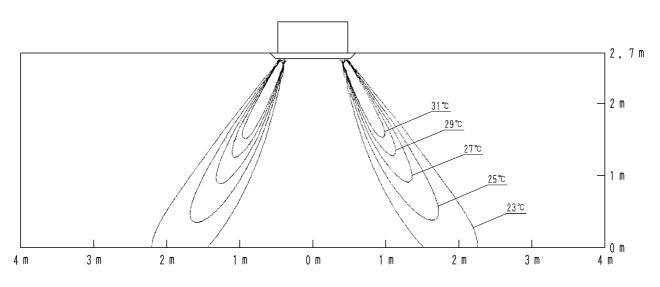
4-way discharge, air flow direction: down



FCQ71D

Heating - air temperature distribution

4-way discharge, air flow direction: down



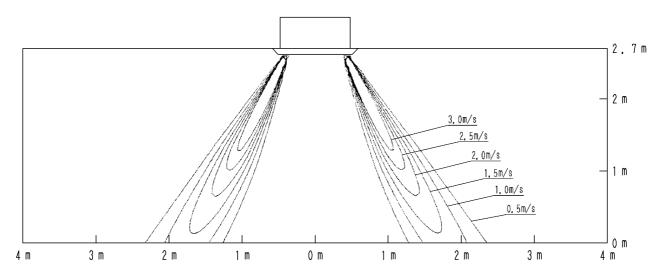
8

8 Air flow pattern

FCQ100D

Heating - air velocity distribution

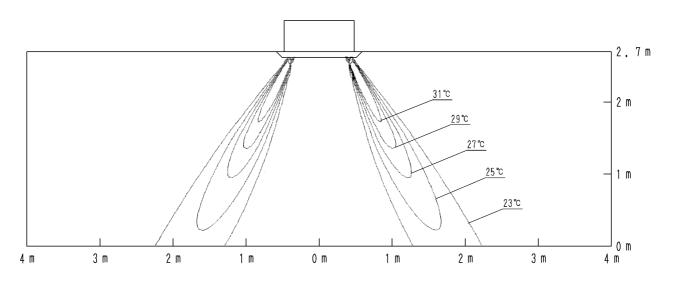
4-way discharge, air flow direction: down



FCQ100D

Heating - air temperature distribution

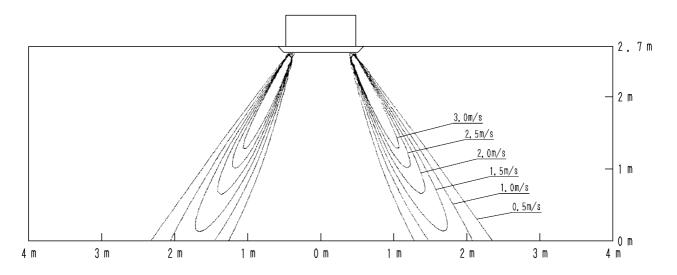
4-way discharge, air flow direction: down



8 FCQ125D

Heating - air velocity distribution

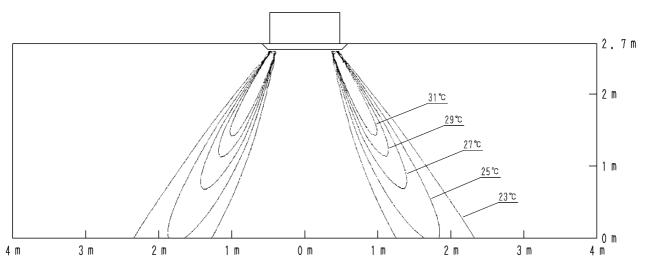
4-way discharge, air flow direction: down



FCQ125D

Heating - air temperature distribution

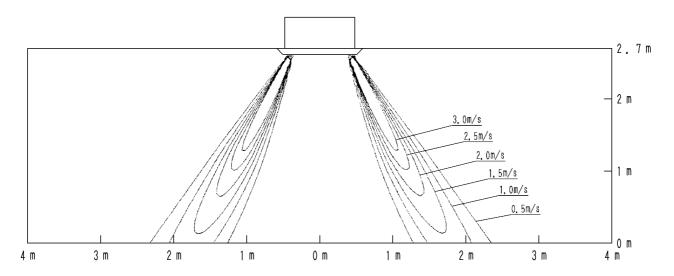
4-way discharge, air flow direction: down



FCQ140D

Heating - air velocity distribution

4-way discharge, air flow direction: down



FCQ140D

Heating - air temperature distribution

4-way discharge, air flow direction: down

