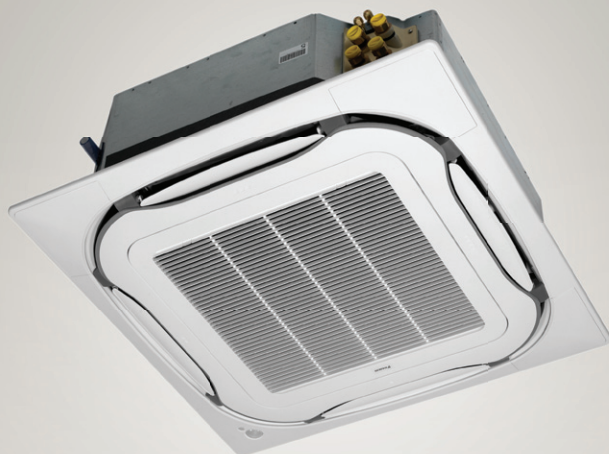




Air Conditioners

Technical Data

Round flow cassette



EEDEN12-100

FCQG-F

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FCQG-F

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1 Features

- User friendly remote control with contemporary design
- Seasonal efficiency, optimized for all seasons.
- Easy to use: all main functions directly accessible
- Seasonal efficiency gives an indication on how efficient an air conditioner operates over an entire heating or cooling season.
- Easy setup: clear graphical user interface for advanced menu settings
- The round flow cassette provides a more comfortable environment and offers greater savings in energy consumption to shop, office and restaurant owners
- Optimise your air conditioning system by activating a series of energy saving functions (temperature range limit, setback function, off timer, ...)
- 360° air discharge ensures uniform air flow and temperature distribution
- Keep track of your energy consumption with the kWh indication showing an indicative electricity consumption
- Modern style decoration panel is available in 3 different variations: pure white (RAL9010) auto cleaning panel, pure white (RAL9010) standard panel with grey louvers and pure white (RAL9010) standard panel with white louvers
- Set up to 3 independent schedules, so the user can easily change the schedule himself throughout the year (e.g. summer, winter, mid-season)
- Air discharge from the corners avoids dead zones that may be subject to temperature differences
- Real time clock with auto update to daylight saving time
- 23 different air flow patterns possible
- Supports multiple languages (English, German, Dutch, Spanish, Italian, Portuguese, French, Greek, Russian, Turkish and Polish)
- Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- Possibility to individually restrict menu functions
- Daikin introduces first auto cleaning cassette to European market.
- When a power failure occurs all settings remain stored up to 48 hours thanks to the built-in backup power
- Higher efficiency and comfort thanks to daily auto cleaning of the filter.
- Easy dust removal with vacuum cleaner without opening the unit.
- Lower maintenance costs thanks to auto cleaning function.
- The presence sensor (optional) : - adjusts the temperature or switches off the unit when there is nobody in the room - ensures the air flow is directed away from any person detected in the room, when the air flow control is activated
- The floor sensor (optional) detects the average floor temperature and ensures even temperature distribution between ceiling and floor. Cold feet will become history.
- Home leave operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy



1 Features



3 steps



optional



2 Specifications

2-1 Technical Specifications				FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB
Casing	Material			Galvanised steel plate						
Dimensions	Unit	Height/Width/Depth	mm	204/840/840				246/840/840		
	Packed unit	Height/Width/Depth	mm	220/880/880				260/880/880		
Weight	Unit		kg	18	19		21	24		
	Packed unit		kg	22	23		25	28		
Decoration panel	Model			BYCQ140D7W1						
	Colour			Pure White (RAL 9010)						
	Dimensions	Height/Width/Depth	mm	60/950/950						
	Weight		kg	5.4						
Decoration panel 2	Model			BYCQ140D7W1W						
	Colour			Pure White (RAL 9010)						
	Dimensions	Height/Width/Depth	mm	60/950/950						
	Weight		kg	5.4						
Decoration panel 3	Model			BYCQ140D7GW1						
	Colour			Pure White (RAL 9010)						
	Dimensions	Height/Width/Depth	mm	145/950/950						
	Weight		kg	10.3						
Heat exchanger	Inside length		mm	2,134			2,090			
	Outside length		mm	2,181			2,184			
	Rows	Quantity		2			3			
	Fin pitch		mm	1.2						
	Passes	Quantity		4	6		12	14		
	Face area		m²	0.278	0.366		0.371	0.464		
	Stages	Quantity		9	12			15		
	Empty tubeplate hole		Quantity	0						
	Fin	Type		Cross fin coil (multi slit fins and hi-XA tubes)						
Fan	Type			Turbo fan						
	Quantity			1						
	Air flow rate	Cooling	High	m³/min	12.5	12.6	13.6	15.0	22.8	26.0
			Nom.	m³/min	10.6	10.7	11.2	12.1	17.6	19.2
			Low	m³/min	8.7			9.1	12.4	
		Heating	High	m³/min	12.5	12.6	13.6	15.0	22.8	26.0
			Nom.	m³/min	10.6	10.7	11.2	12.1	17.6	19.2
Low			m³/min	8.7			9.1	12.4		
Fan motor	Model			QTS48D11M				QTS48C15M		
	Speed	Steps		3						
	Output	High	W	48				106		
Sound power level	Cooling	High	dBA	49		51		54	58	
	Heating	High	dBA	49		51		54	58	
Sound pressure level	Cooling	High/Nom./Low	dBA	31/29/27		33/31/28		37/33/29	41/35/29	
	Heating	Super high/High/Nom./Low	dBA	-31/29/27		-33/31/28		-37/33/29	-41/35/29	
Refrigerant	Type			R-410A						
Piping connections	Sound absorbing insulation			Foamed Polyurethane						
	Liquid	Type/OD	mm	Flare connection/6.35			Flare connection/9.52			
	Gas	Type/OD	mm	Flare connection/9.52	Flare connection/12.7			Flare connection/15.9		
	Drain			VP25 (O.D. 32 / I.D. 25)						
	Heat insulation			Foamed polystyrene / Foamed polyethylene						
Air filter	Type			Resin net with mold resistance						

Standard Accessories : Clamps;

Standard Accessories : Drain sealing pad;

Standard Accessories : Sealing pads; Quantity : 4;

2 Specifications

Standard Accessories : Insulation for fitting; Quantity : 2;

Standard Accessories : Installation guide;

Standard Accessories : Screws;

Standard Accessories : Washer for hanger bracket;

Standard Accessories : Clamp for drain hose;

Standard Accessories : Drain hose;

Standard Accessories : Installation manual;

Standard Accessories : Operation manual;

2-2 Electrical Specifications			FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB
Power supply	Name		VE						
	Phase		1~						
	Frequency	Hz	50						
	Voltage	V	220-240						
Current - 60Hz	Nominal running current	A	-						

Notes

(1) The sound power level is an absolute value indicating the power which a sound source generates.

(2) The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt.

3 Electrical data

3 - 1 Electrical Data

FCQG-F

Unit combination		Power supply				Compressor	OFM		IFM	
Indoor unit	Outdoor unit	Hz-volts	Voltage range	MCA	MFA	RLA	kW	FLA	kW	FLA
FCQG35FVEB	RKS35J2V1B RXS35J2V1B	50 - 220	Max. 50Hz-253V Min. 50Hz-207V	9.75	10	7.1	0.023	0.23	0.048	0.30
		50 - 230				3.9				
		50 - 240				3.7				
FCQG50FVEB	RKS50J2V1B RXS50J2V1B	50 - 220		19.75	20	6.0	0.053	0.27	0.048	0.30
		50 - 230				5.7				
		50 - 240				3.4				
FCQG60FVEB	RKS60F3V1B RXS60F3V1B	50 - 220		19.75	20	7.4	0.053	0.19	0.048	0.30
		50 - 230				7.1				
		50 - 240				6.8				
FCQG71FVEB	REQ71B8V3B	50 - 230		16.30	32	12.2	0.065	0.6	0.106	0.40
FCQG71FVEB	RR71B8V3B	50 - 230		16.30	32	12.2	0.065	0.6	0.106	0.40
FCQG71FVEB	RQ71B8V3B	50 - 230		16.30	32	12.2	0.065	0.6	0.106	0.40
FCQG100FVEB	REQ100B8V3B	50 - 230		23.50	40	17.6	0.09	0.8	0.106	0.70
FCQG100FVEB	RR100B8V3B	50 - 230		23.50	40	-	0.09	0.8	0.106	0.70
FCQG100FVEB	RQ100B8V3B	50 - 230		23.50	40	17.6	0.09	0.8	0.106	0.70
FCQG71FVEB	REQ71B8W1B	50 - 400	6.80	16	4.8	0.065	0.6	0.106	0.20	
FCQG71FVEB	RR71B8W1B	50 - 400	7.00	16	4.8	0.065	0.6	0.106	0.40	
FCQG71FVEB	RQ71B8W1B	50 - 400	7.00	16	4.8	0.065	0.6	0.106	0.40	
FCQG100FVEB	REQ100B8W1B	50 - 400	8.90	16	5.9	0.09	0.8	0.106	0.70	
FCQG100FVEB	RR100B8W1B	50 - 400	8.90	16	-	0.09	0.8	0.106	0.70	
FCQG100FVEB	RQ100B8W1B	50 - 400	8.90	16	5.9	0.09	0.8	0.106	0.70	
FCQG125FVEB	REQ125B8W1B	50 - 400	12.40	20	8.1	0.065 +0.085	0.6+ 0.7	0.106	1.00	
FCQG125FVEB	RR125B8W1B	50 - 400	11.90	20	7.7	0.065 +0.085	0.6+ 0.7	0.106	1.00	

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NOTES

- 1 RLA based on the following conditions:
Indoor temp.: 27°CDB/19.0°CWB
Outdoor temp. : 35°CDB
- 2 Voltage range
Units are suitable for use on electrical systems where the voltage supplied to the unit terminals is not below or above the listed range limits.
- 3 Maximum allowable voltage unbalance between phases is 2%.
- 4 MCA/MFA
 $MCA = 1.25 \times RLA + \text{all FLA}$, $MFA = < 2.25 \times RLA + \text{all FLA}$
(next lower standard fuse rating Min. 16A)
- 5 Select wire size based on the larger value of MCA.
- 6 Instead of fuse, use circuit breaker.

SYMBOLS

- MCA : Min. Circuit Amps
MFA : Max. Fuse Amps (See note 6)
RLA : Rated Load Amps
OFM : Outdoor Fan Motor
IFM : Indoor Fan Motor
FLA : Full Load Amps
kW : Fan Motor Rated Output

4 Safety device settings

4 - 1 Safety Device Settings

FCQG-F

Safety devices		FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB
Fuse		250V 5A	250V 5A	250V 5A	---	---	---	---
Fan motor thermal fuse	°C	---	---	---	---	---	---	---
Fan motor thermal protector	°C	---	---	---	---	---	---	---
Drain pump fuse	°C	---	---	---	---	---	---	---

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5 Options

5 - 1 Options

FCQG-F

OPTIONS

	Item	Model	FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB
1	Decoration panel	Standard				BYCQ140D7W1			
		White				BYCQ140D7W1W *3			
		Self clean				BYCQ140D7GW1 *5, *6			
2	Long life replacement filter	Non-woven type				KAPP551K160			
3	Fresh air intake kit (20% fresh air)	Chamber type				KDDQ55B140 *7			
4	Sealing member of air discharge outlet					KDBH055B140 *7			
5	Sensor kit					BRYQ140A7			

CONTROL SYSTEM

	Item	Model	FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB
1	Remote controller	Infrared				BRC7FA532F *7			
						BRC1D528 *4			
						BRC1E51A *4			
		Wired				BRC1E52A / BRC1E52B			
2-1	Wiring adapter for electrical appendices (1)					KRP1BA57 *2 *7			
2-2	Wiring adapter for electrical appendices (2)					KRP4AA53 *2 *7			
2-3	Wiring adapter (hour meter)					EKRP1C11 *2 *7			
3	Remote sensor					KRC501-4B			
4	Installation box for adapter PCB					KRP1H98 *7			
5	Central remote controller					DCS302CA51			
6	Unified ON/OFF controller					DCS301BA51			
7	Electrical box with earth terminal (2 blocks)					KJB212AA			
8	Electrical box with earth terminal (3 blocks)					KJB311AA			
9	Schedule timer					DST301BA51			
10	Remote On/Off					EKROR02			

*1 All options are supplied as kit.

*2 Installation box is necessary for these adapters.

*3 The BYCQ140D7W1W has white insulations.

Be informed that formation of dirt on white insulations is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt.

*4 Not recommended because of the limitation of the functions.

5 To be able to control the BYCQ140D7GW1 the controller BRC1E is needed.

*6 The BYCQ140D7GW1 is not compatible with Mini-VRV, Multi and Split Non-Inverter Outdoor units.

*7 Option not available in combination with BYCQ140D7GW1.

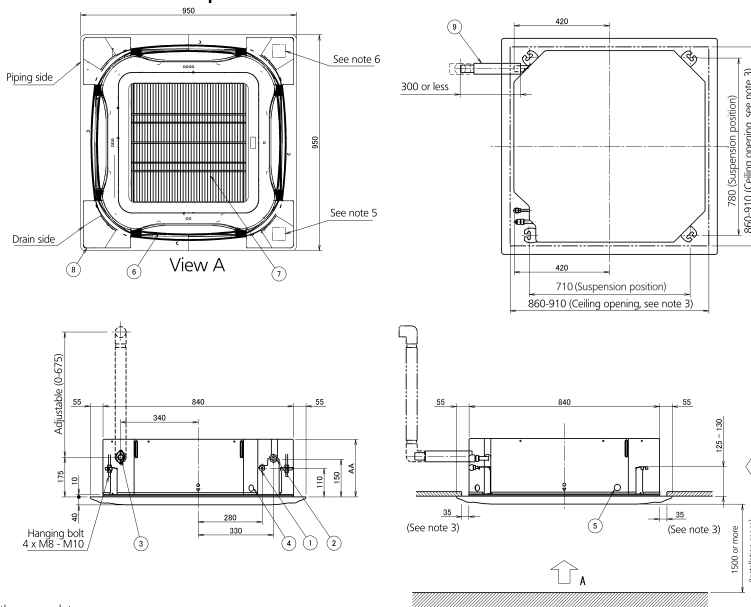
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6 Dimensional drawings

6 - 1 Dimensional Drawings

FCQG-F

Standard panel



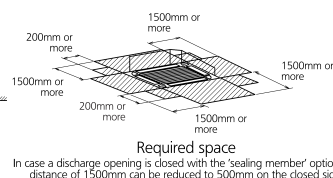
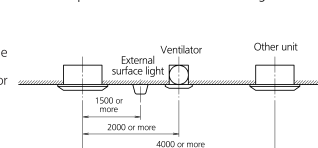
- 1 Liquid pipe connection
- 2 Gas pipe connection
- 3 Drain pipe connection
- 4 Power supply entry hole
- 5 Transmission wiring entry hole
- 6 Air discharge opening
- 7 Air suction grille
- 8 Corner decoration cover
- 9 Drain hose
- 10 Knock out hole

AA	AB	Model
204	140	FCQG35-71PVEB
246	180	FCQG100-140PVEB

Notes:

1. Location of the nameplates:
- Unit body: on the control box cover.
- Decoration panel: on the panel frame at the piping side under the corner cover.
2. When installing an optional accessory, refer to the installation drawings.
- For fresh air intake kit an inspection port is necessary.
3. Make sure the spacing between the ceiling and the cassette is no more than 35mm.
MAX ceiling opening: 910mm.
4. When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10 mm or more).
5. In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail.
6. In case of using an infrared controller, this position will be a receiver, refer to the drawing of the infrared controller for more detail.

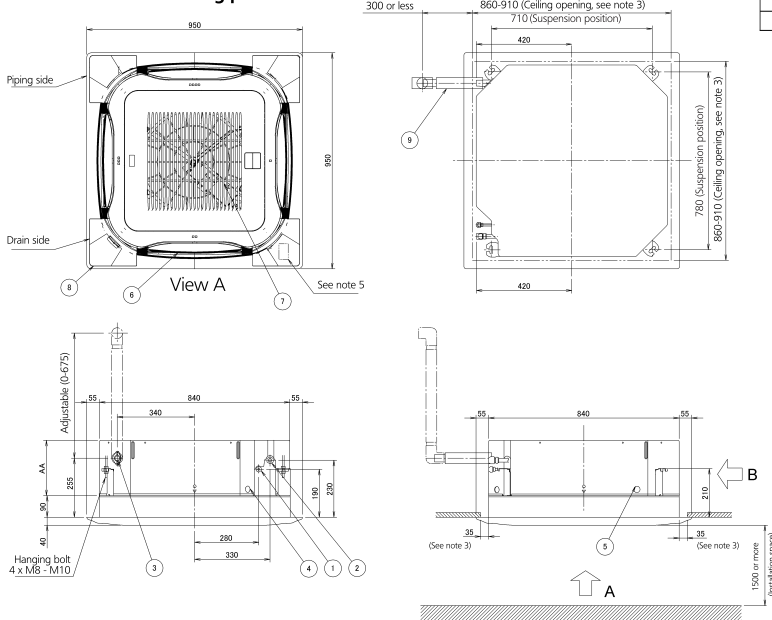
5. Please respect the distances as shown on figure.



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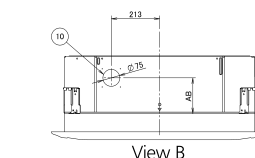
FCQG-F

Auto cleaning panel

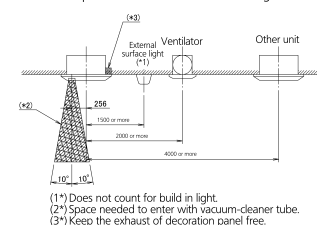


AA	AB	Model
204	140	FCQG35-71PVEB
246	180	FCQG100-140PVEB

- 1 Liquid pipe connection
- 2 Gas pipe connection
- 3 Drain pipe connection
- 4 Power supply entry hole
- 5 Transmission wiring entry hole
- 6 Air discharge opening
- 7 Air suction grille
- 8 Corner decoration cover
- 9 Drain hose
- 10 Knock out hole



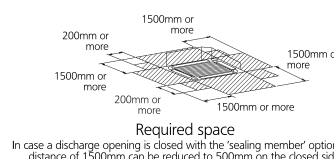
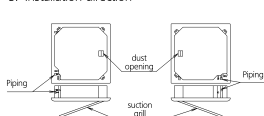
6. Please respect the distances as shown on figure below.



Notes:

1. Location of the nameplates:
- Unit body: on the control box cover.
- Decoration panel: on the panel frame at the piping side under the corner cover.
2. When installing an optional accessory, refer to the installation drawings.
- For fresh air intake kit an inspection port is necessary.
3. Make sure the spacing between the ceiling and the cassette is no more than 35mm.
MAX ceiling opening: 910mm.
4. When the conditions exceed 30°C and RH 80% in the ceiling or fresh air is inducted into the ceiling, an additional insulation is required (polyethylene foam, thickness 10 mm or more).
5. In case of using a sensor kit, this position will be a sensor, refer to the drawing of the sensor kit for more detail.

5. Installation direction

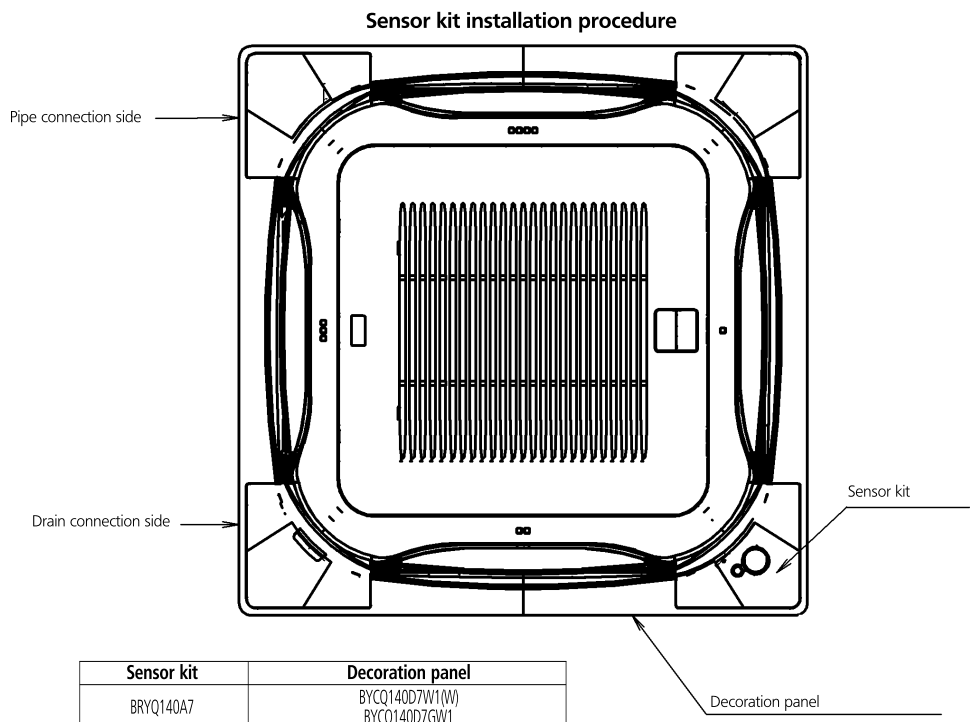


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6 Dimensional drawings

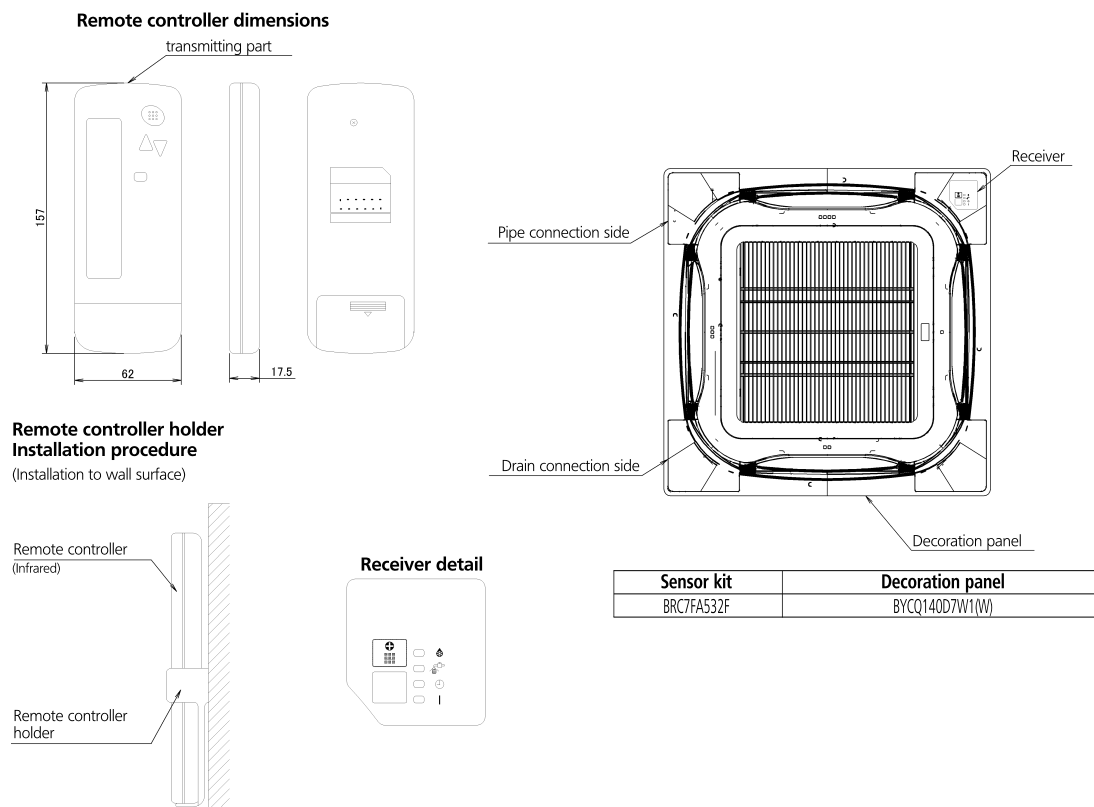
6 - 2 Dimensional Drawings with Accessories

FCQG-F



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FCQG71F

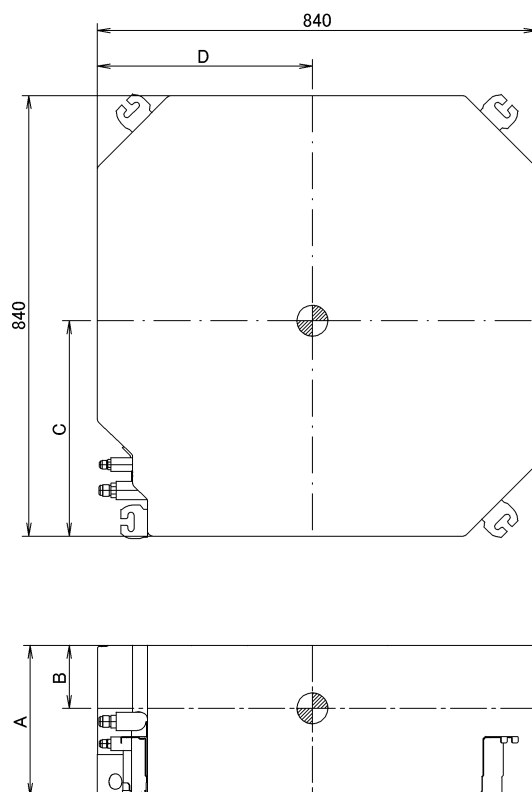


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7 Centre of gravity

7 - 1 Centre of Gravity

FCQG-F

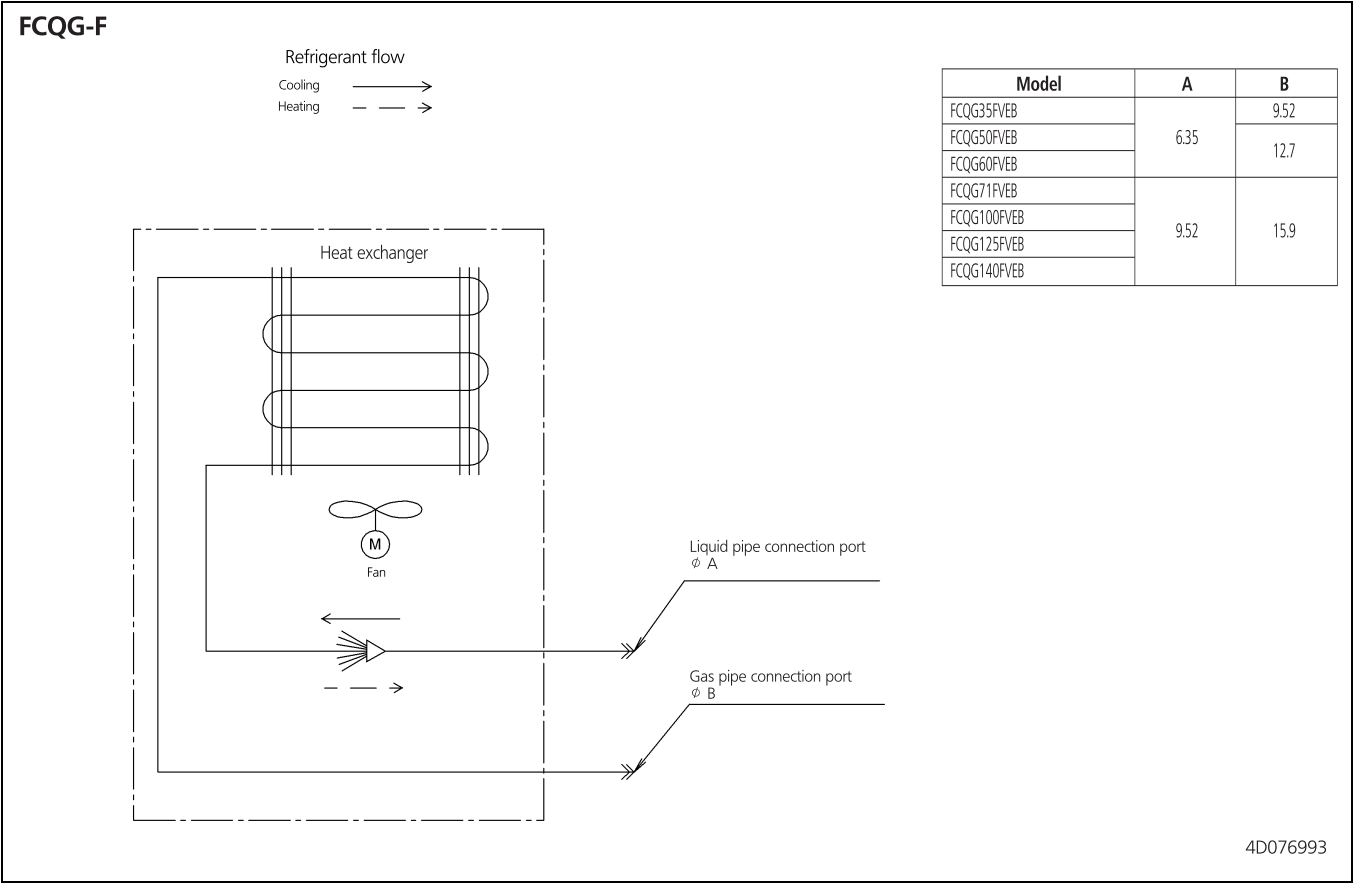


Model	A	B	C	D
FCQG35~71FVEB	204	60	409	358
FCQG100~140FVEB	246	90	411	411

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8 Piping diagrams

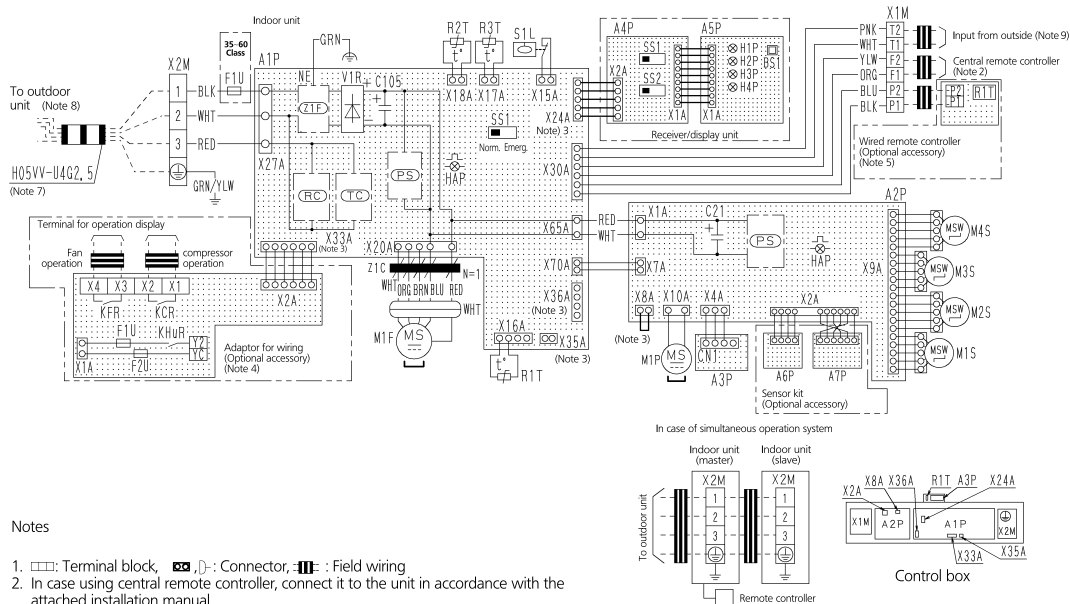
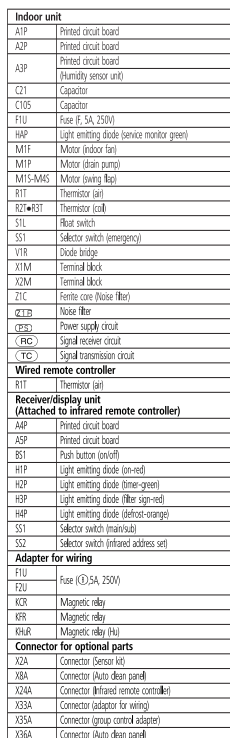
8 - 1 Piping Diagrams



9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

FCQG-F

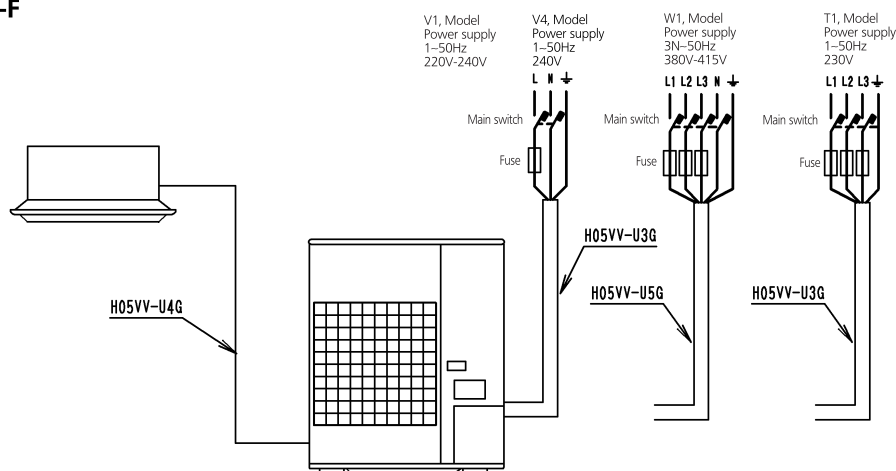


- ## Notes
1. : Terminal block, : Connector, : Field wiring
 2. In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
 3. X2A, X8A, X33A, X35A, X36A are connected when the optional accessories are being used. In case of using an auto clean panel, see the wiring diagram of it.
 4. Connect power of adaptor for wiring to terminal block (X2M) of indoor unit directly.
 5. In case of main/sup overcharge, see the installation manual attached to remote controller.
 6. Symbols show as follows: RED:Red BLK:Black WHT:White YLW:Yellow GRN:Green ORG:Orange BRN:Brown PNK:Pink GRY:Grey BLU:Blue.
 7. Shows only in case of protected pipes, use HO7RN-F in case of no protection.
 8. For the detail, see wiring diagram attached to outdoor unit.
 9. When connecting the input wires from outside, forced OFF or ON/OFF control operation can be selected by the remote controller. See installation manual for more details.

10 External connection diagrams

10 - 1 External Connection Diagrams

FCQG-F



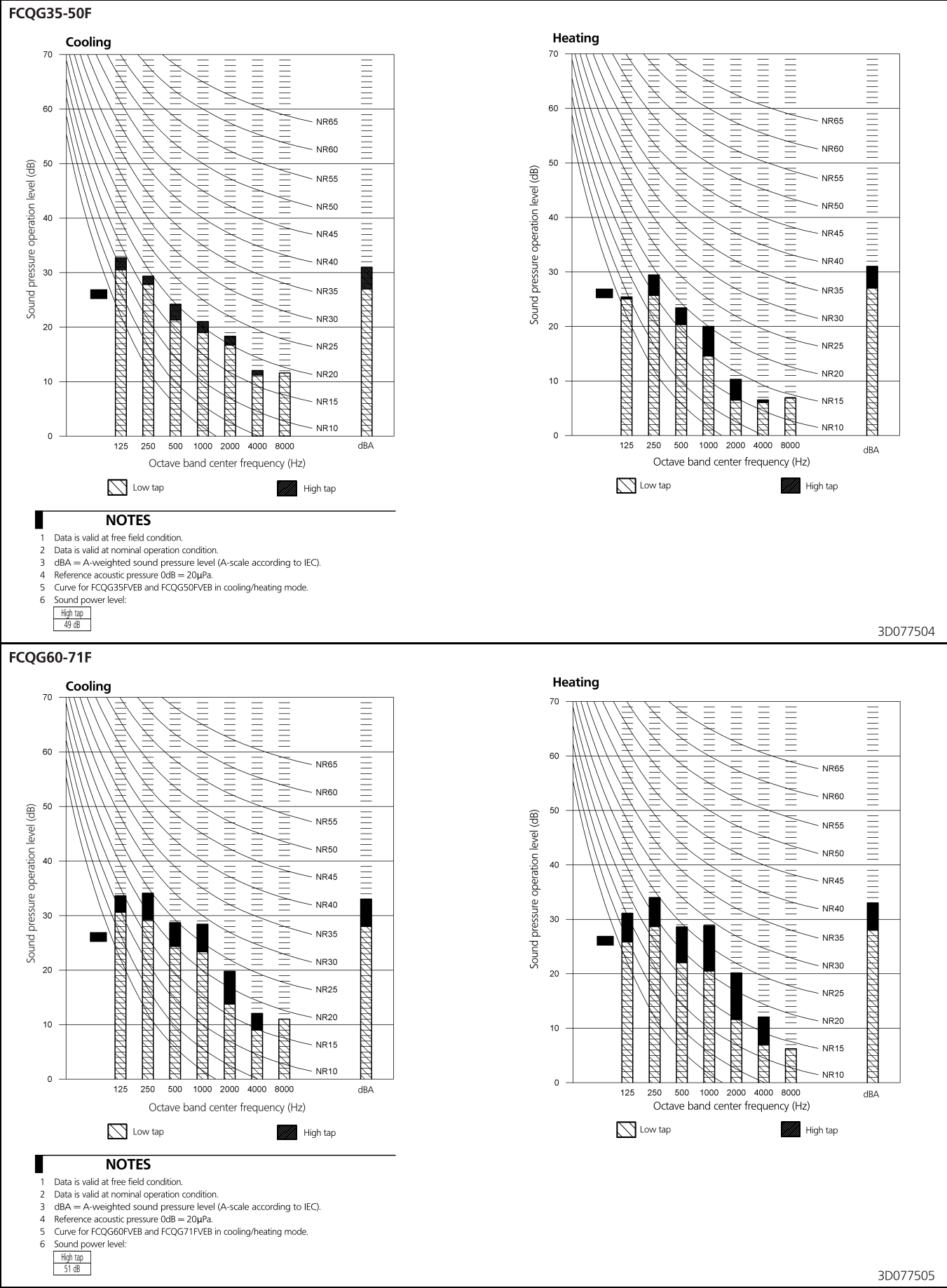
NOTES

- 1 Line voltage wiring
 Control circuit wiring
- 2 All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.
- 3 Use copper conductors only.
- 4 As for details, see wiring diagram.
- 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.

4D010992E

11 Sound data

11 - 1 Sound Pressure Spectrum



FCQG60-71F

Cooling

Heating

NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation condition.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC).
- 4 Reference acoustic pressure 0dB = 20μPa.
- 5 Curve for FCQG60FVEB and FCQG71FVEB in cooling/heating mode.
- 6 Sound power level:

High tap

51 dB

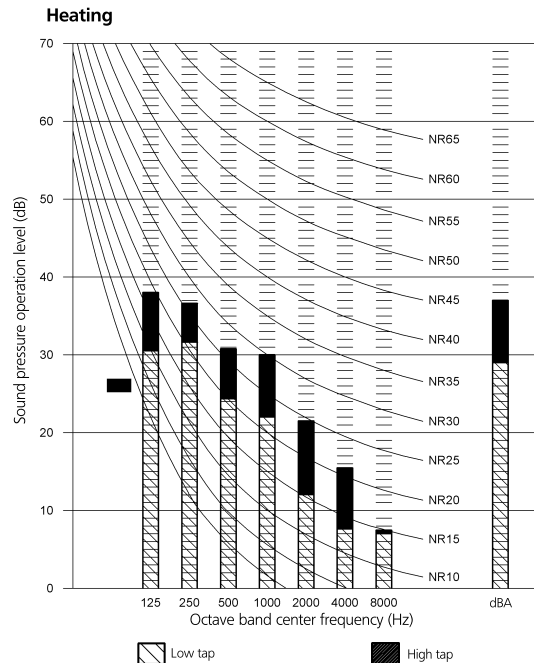
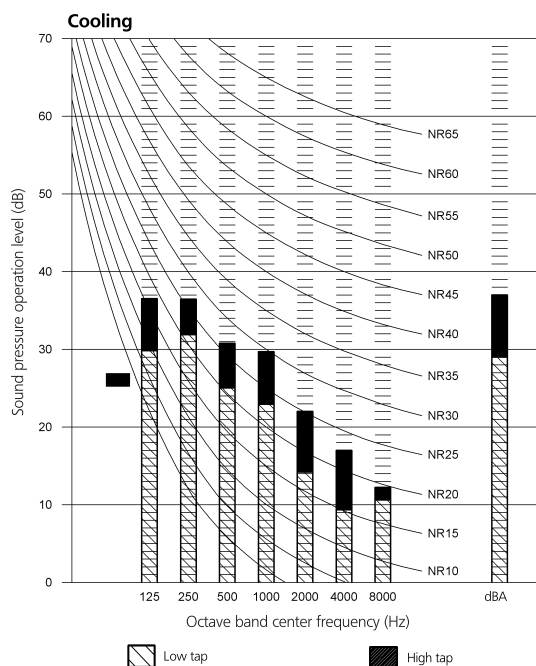
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11 Sound data

11 - 1 Sound Pressure Spectrum

11

FCQG100F



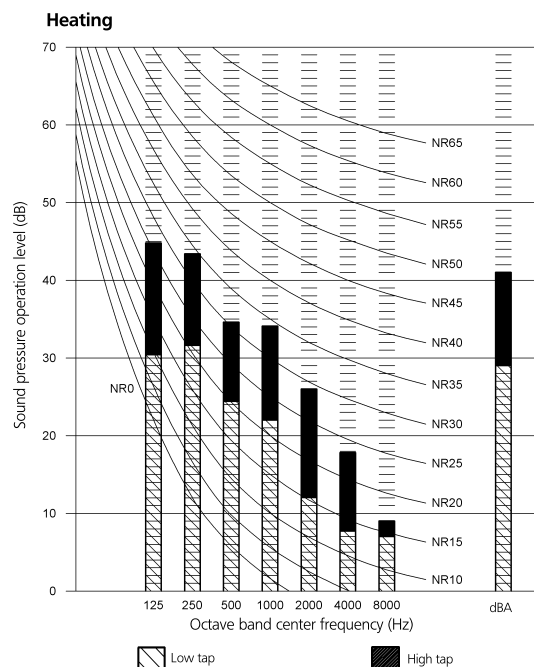
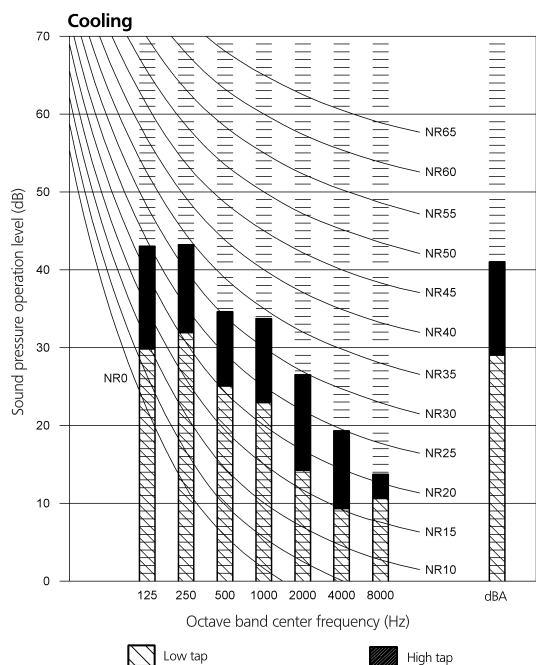
NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation level condition.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC).
- 4 Reference acoustic pressure 0dB = 20μPa.
- 5 Curve for FCQG100FVEB in cooling/heating mode.
- 6 Sound power level:

High tap
54 dB

3D077506

FCQG125-140F



NOTES

- 1 Data is valid at free field condition.
- 2 Data is valid at nominal operation level condition.
- 3 dBA = A-weighted sound pressure level (A-scale according to IEC).
- 4 Reference acoustic pressure 0dB = 20μPa.
- 5 Curve for FCQG125FVEB and FCQG140FVEB in cooling/heating mode.
- 6 Sound power level:

High tap
58 dB

3D077531

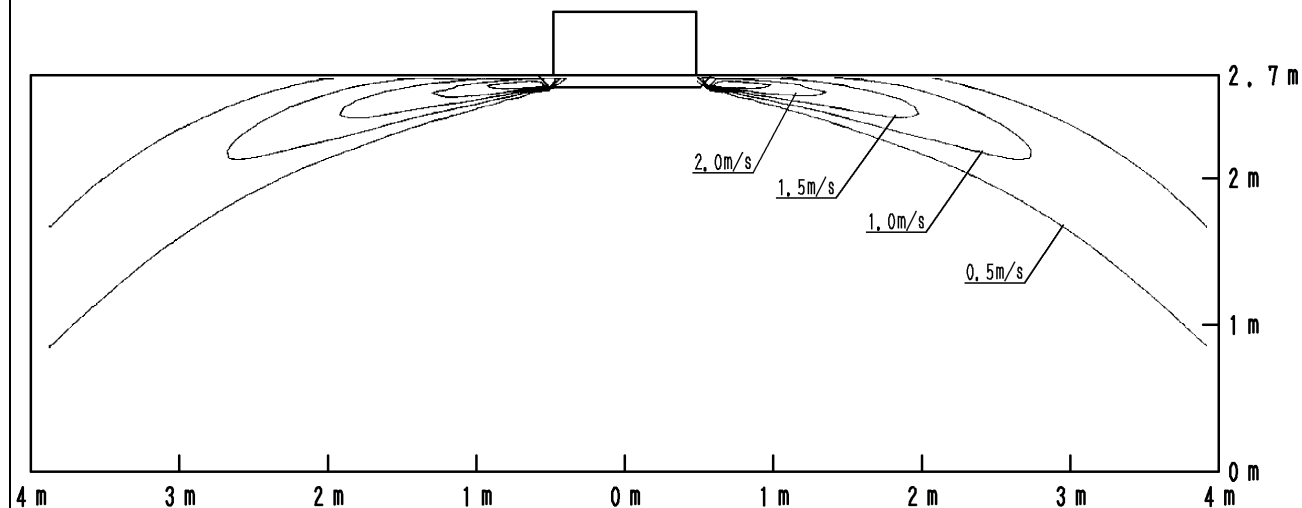
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FCQG35F

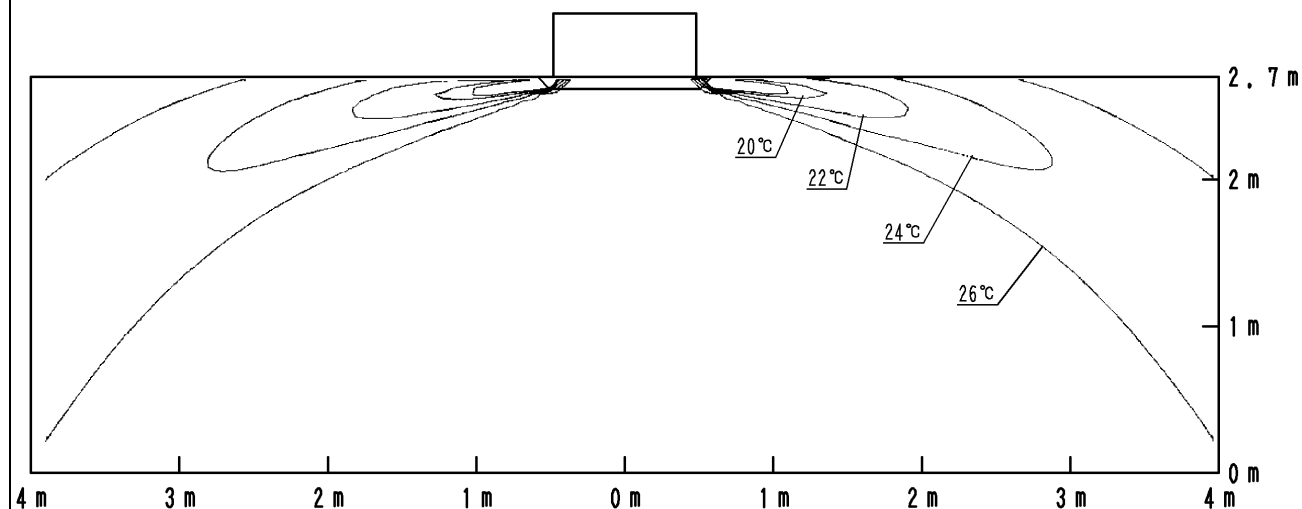
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077053

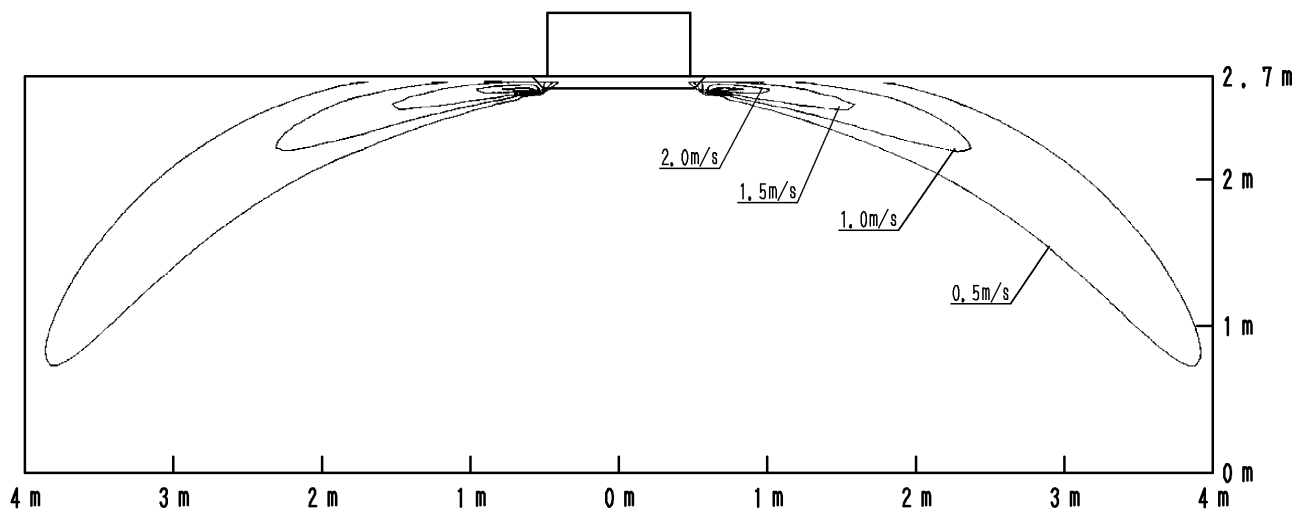
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FCQG50F

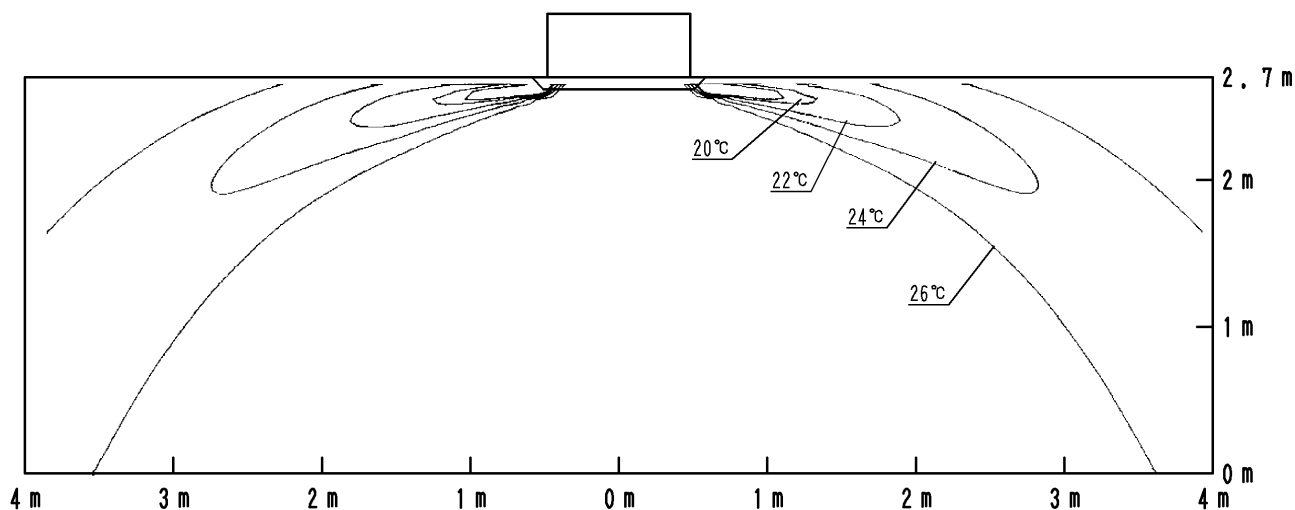
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077054

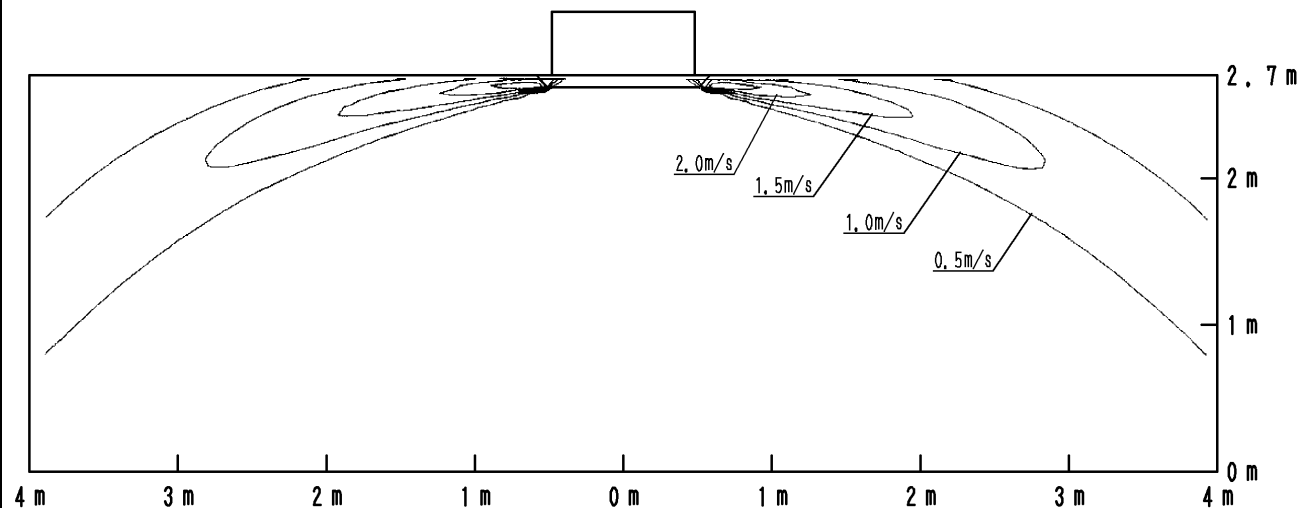
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FCQG60F

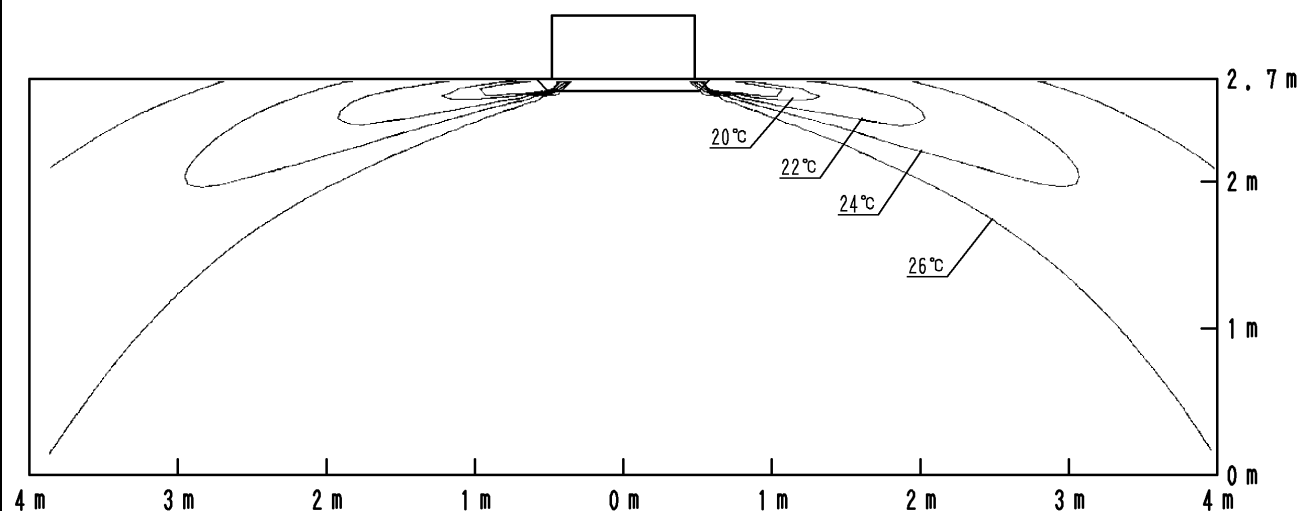
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077055

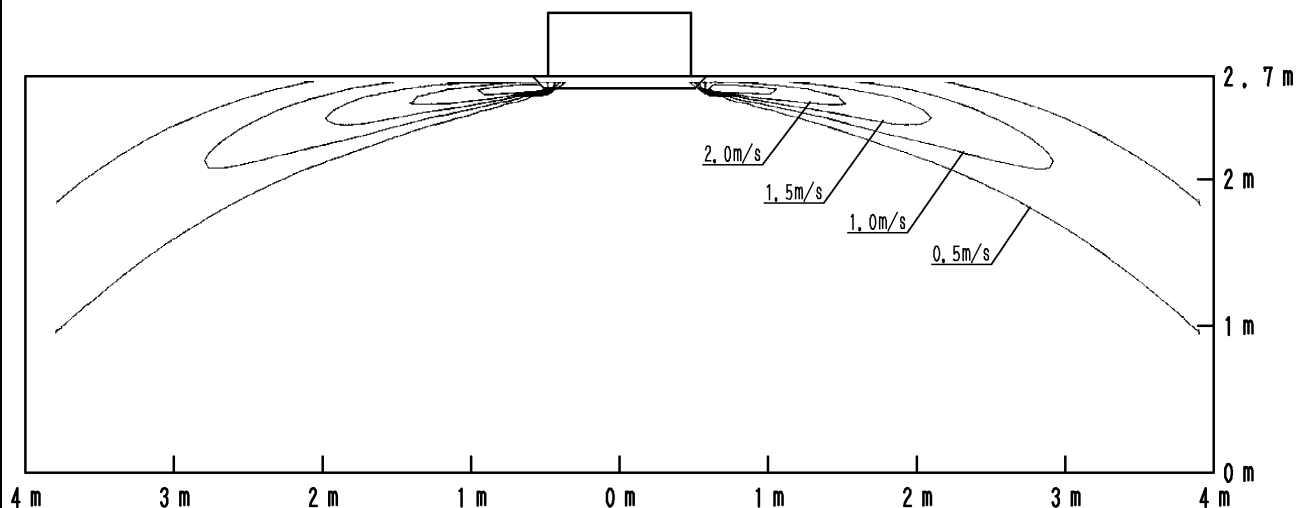
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FCQG71F

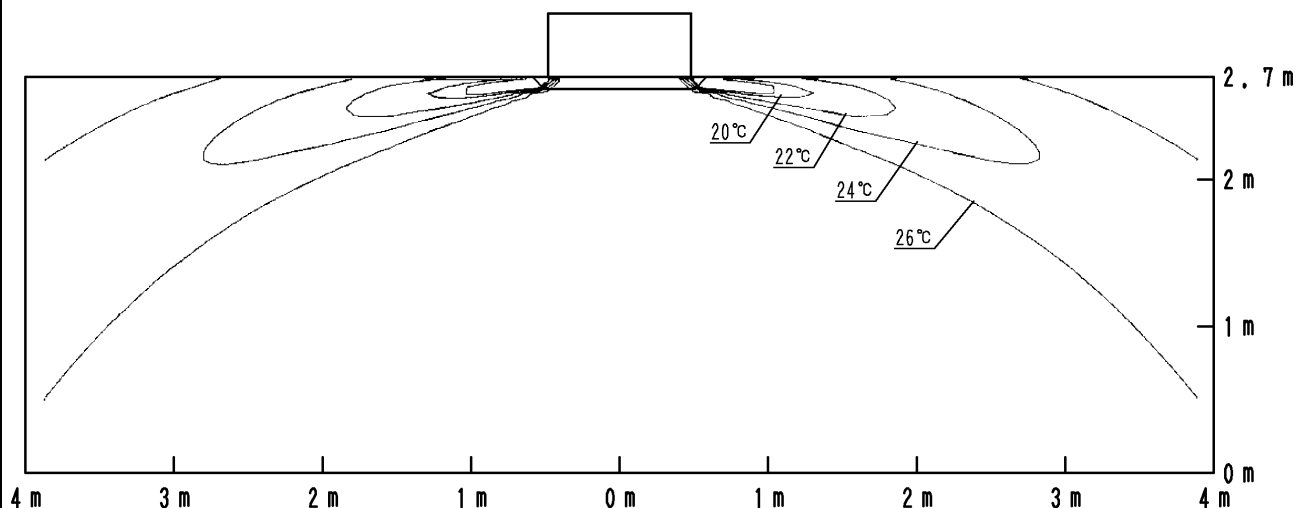
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077056

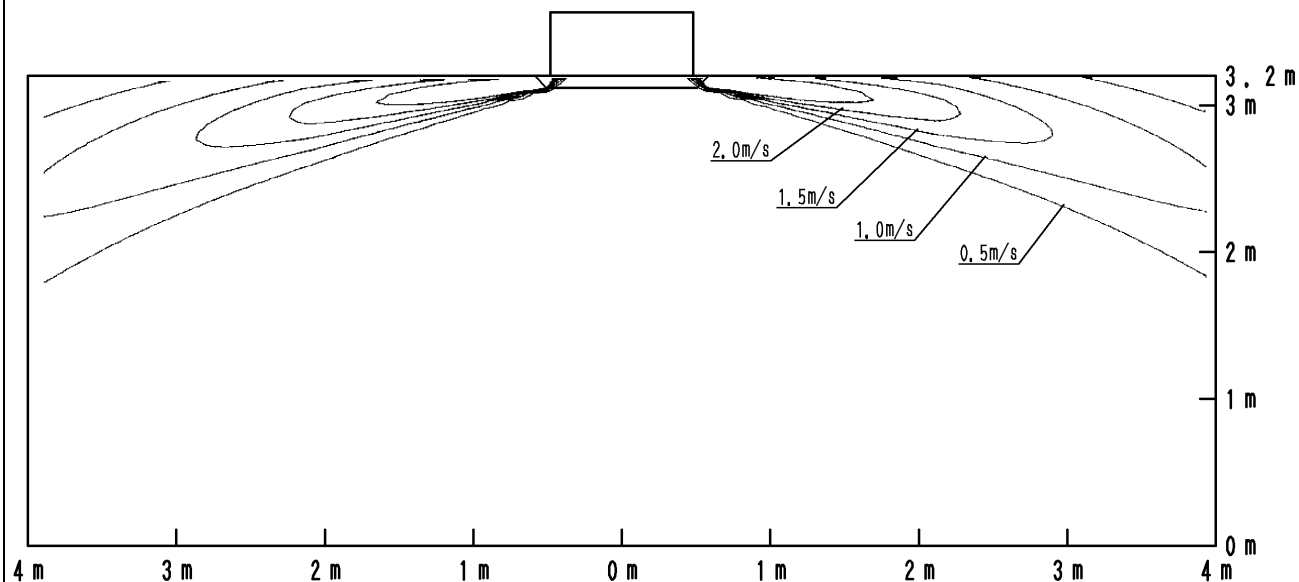
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FCQG100F

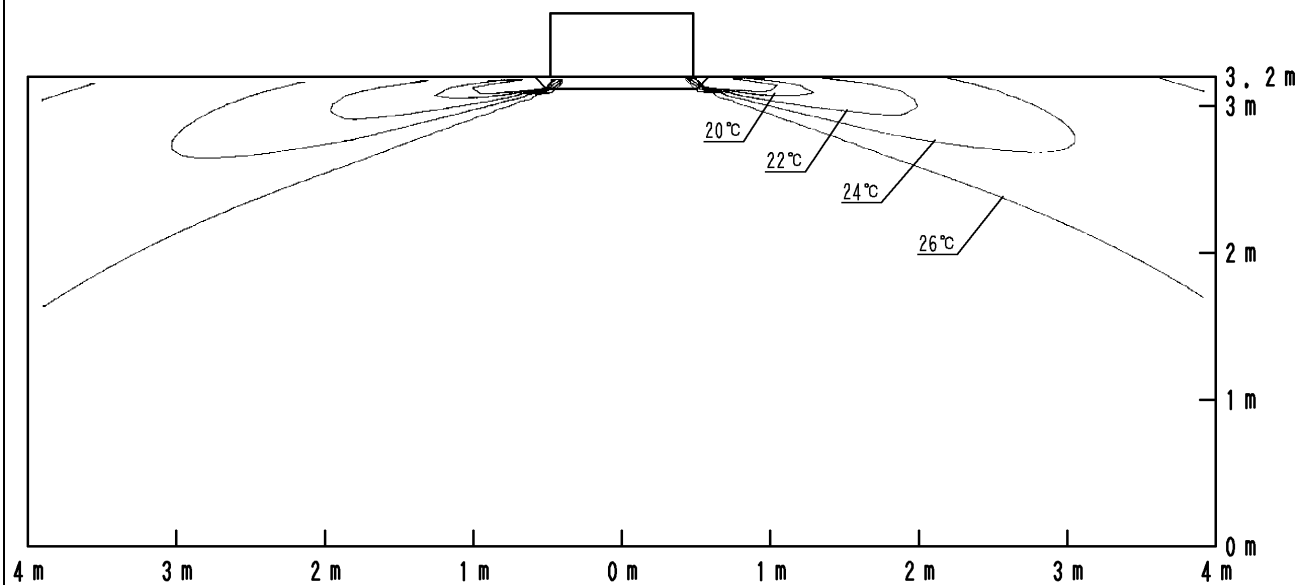
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077057

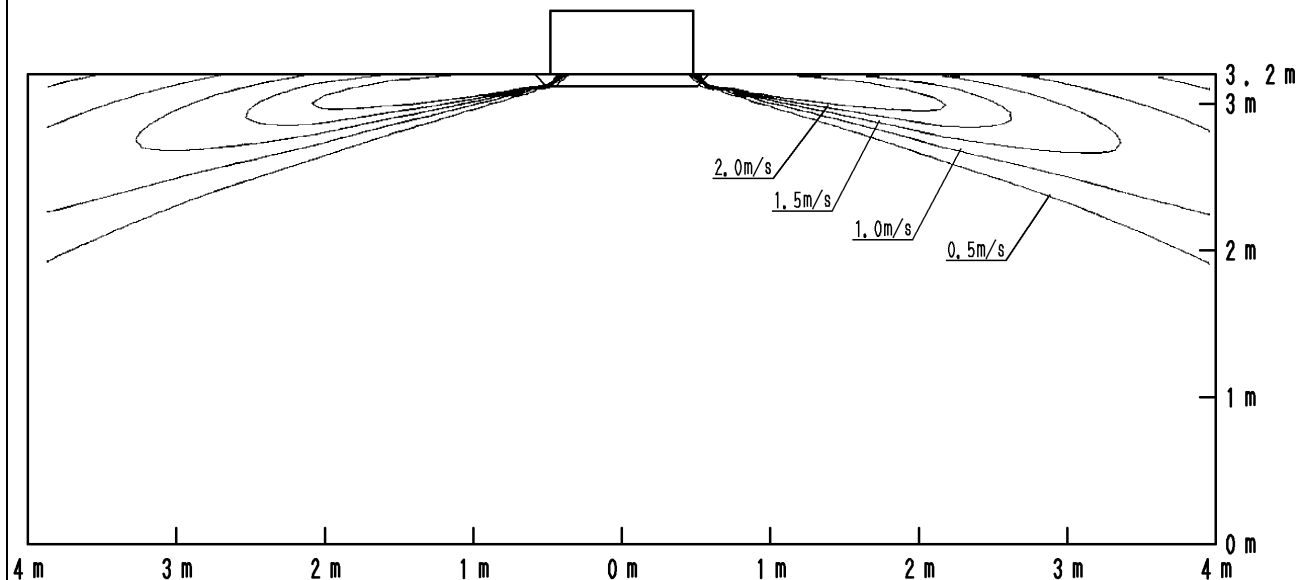
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FCQG125F

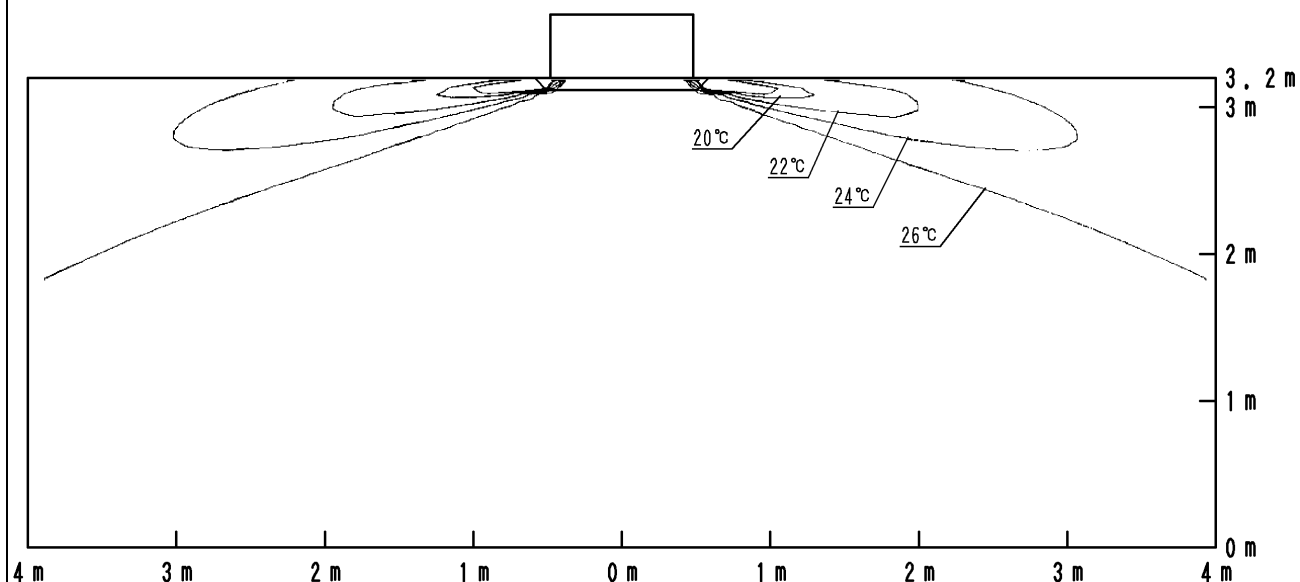
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077058

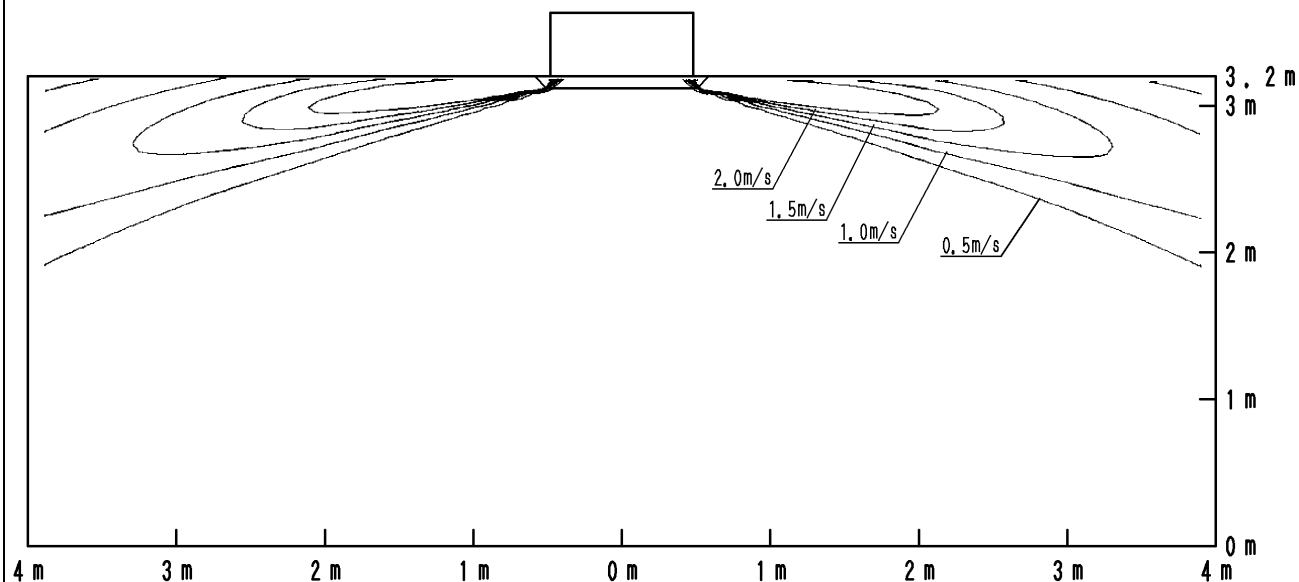
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FCQG140F

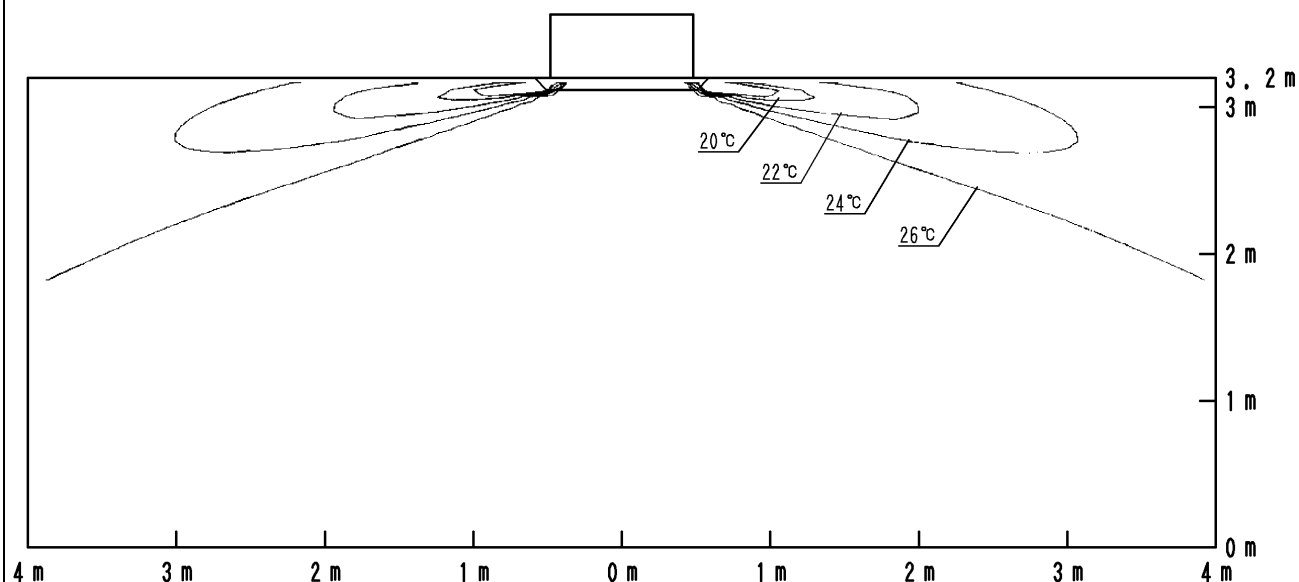
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077059

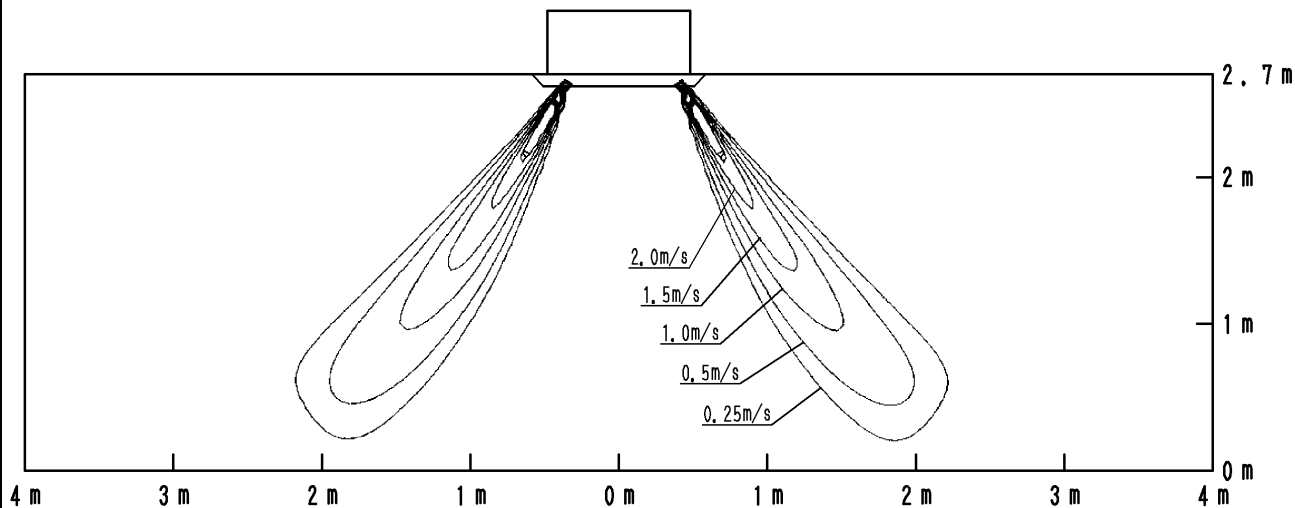
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FCQG35F

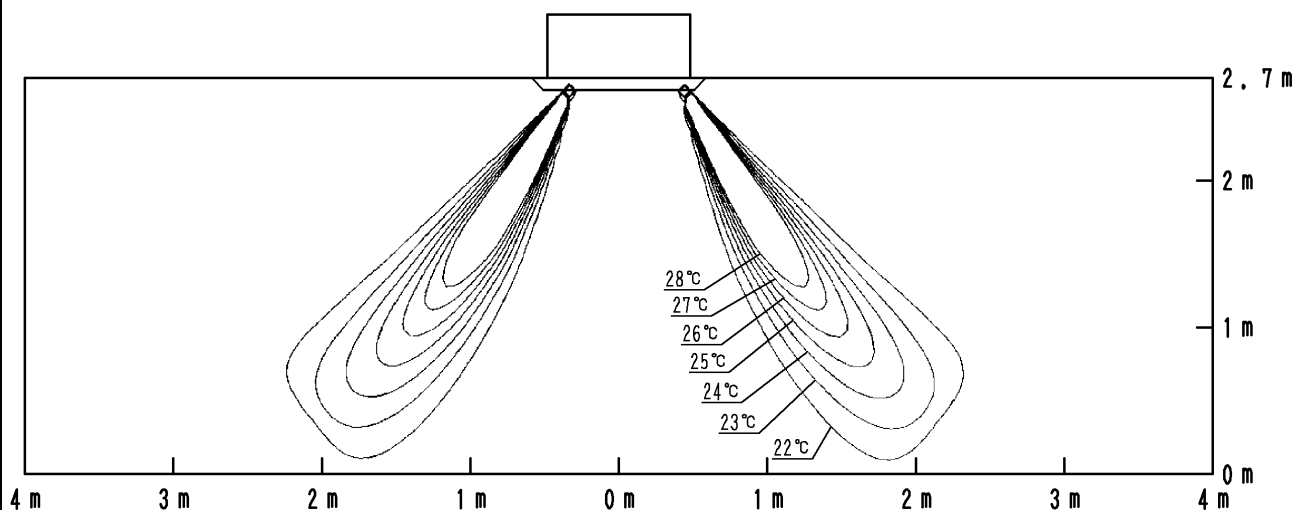
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077042

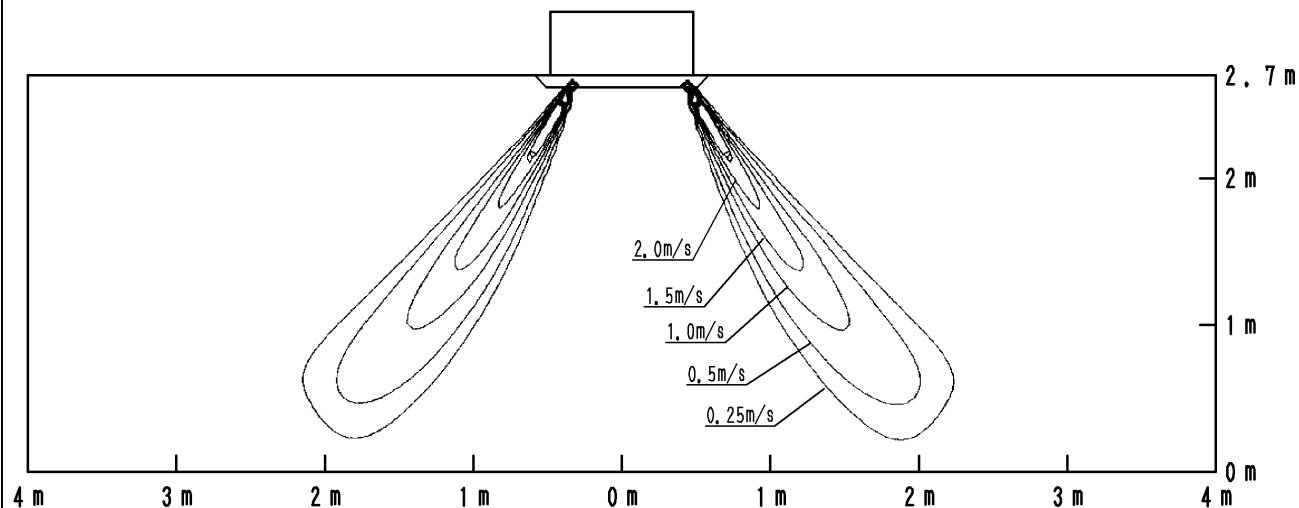
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FCQG50F

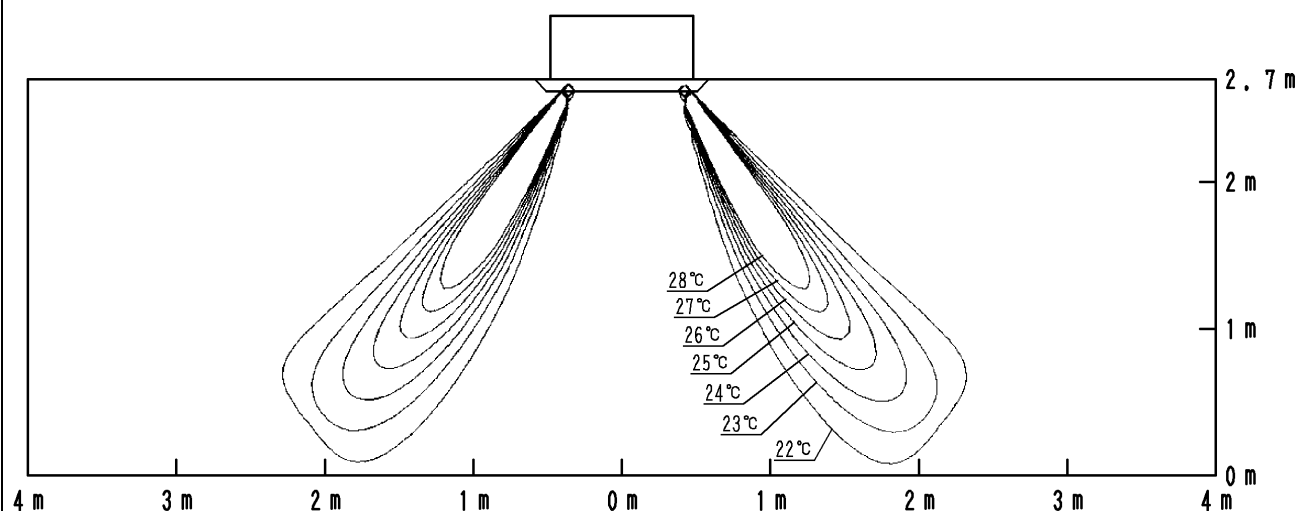
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077043

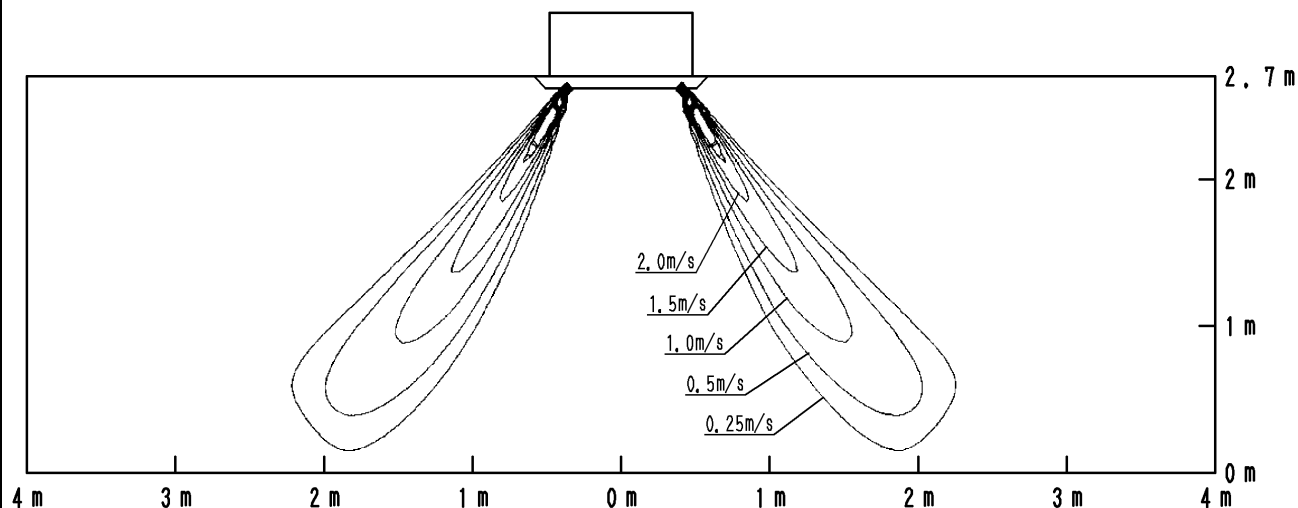
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FCQG60F

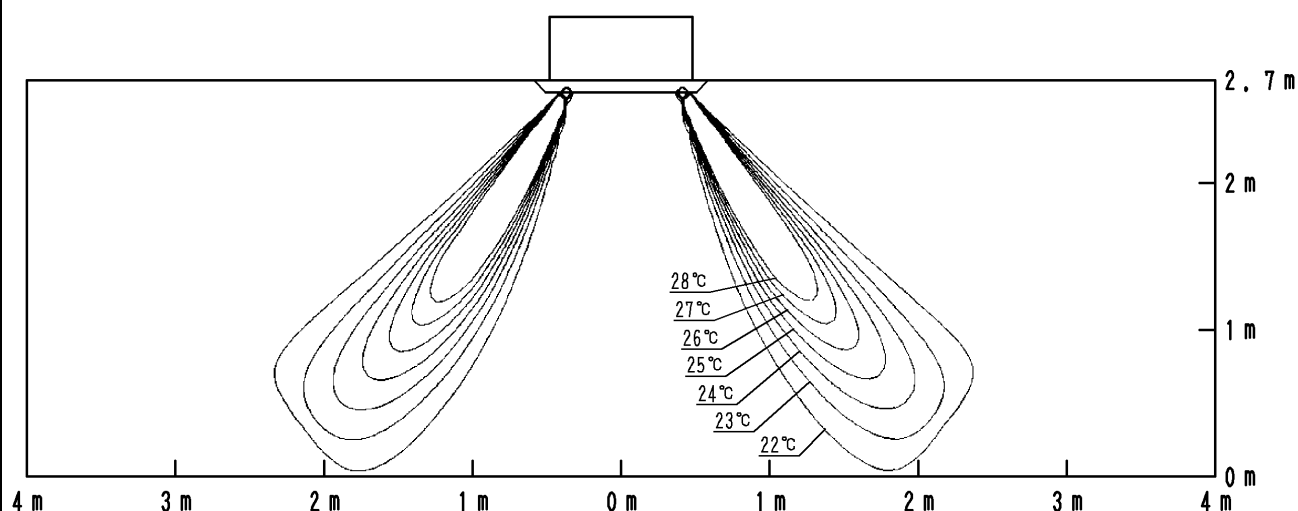
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077044

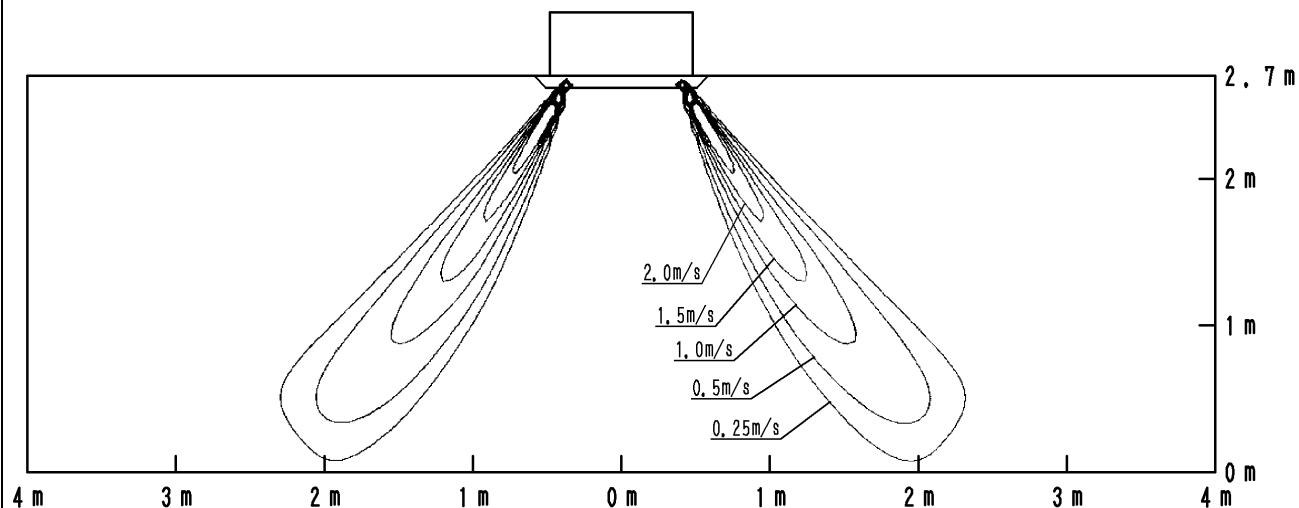
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FCQG71F

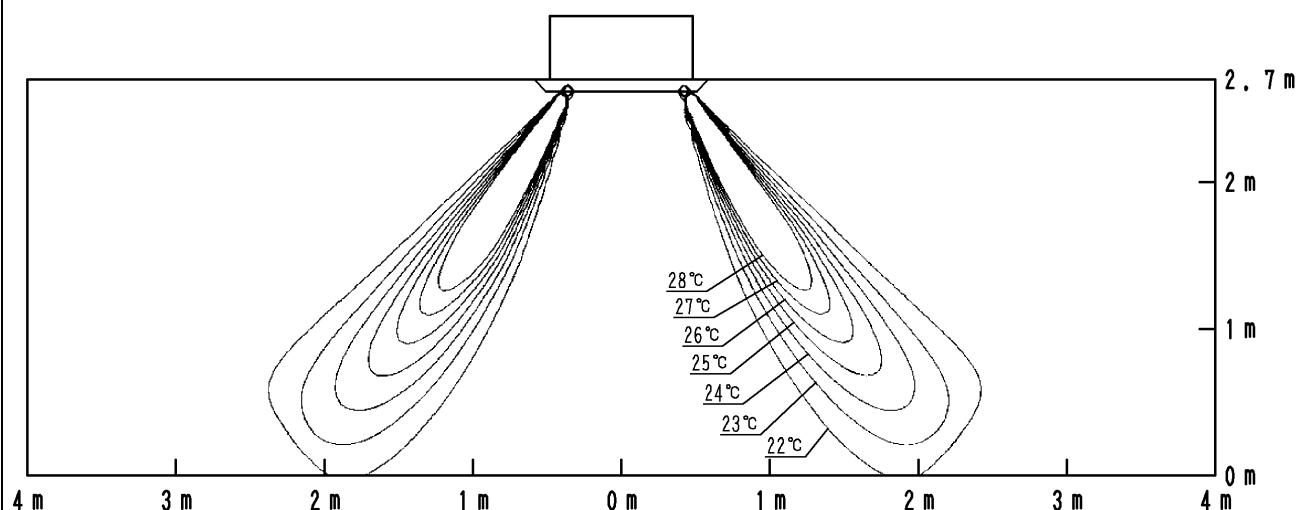
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077045

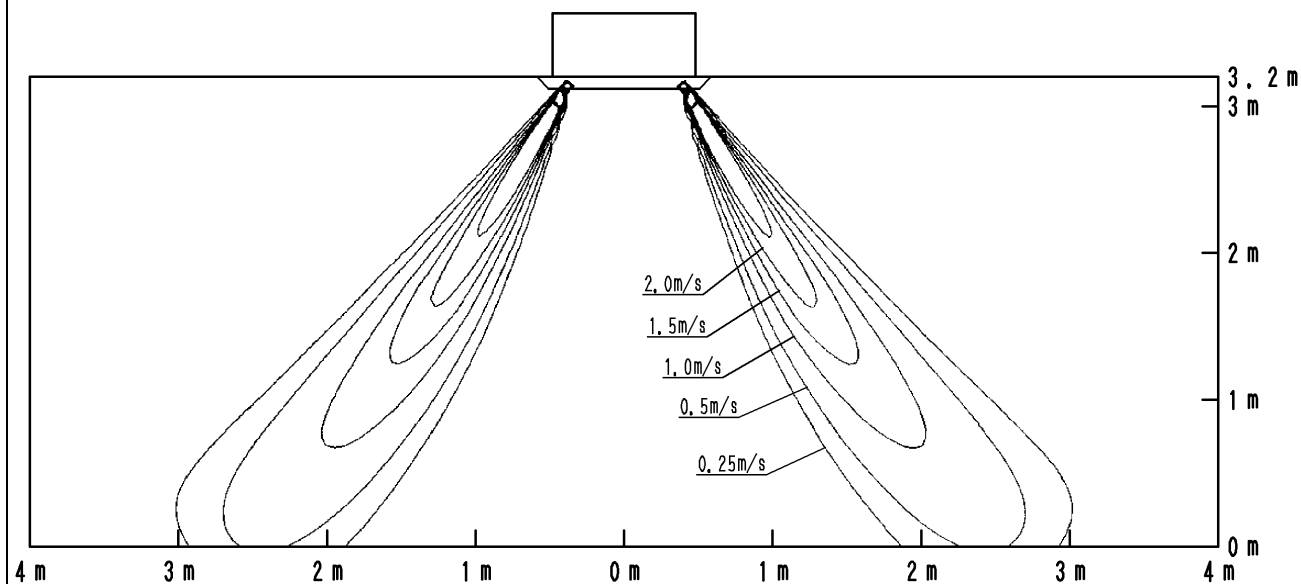
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FCQG100F

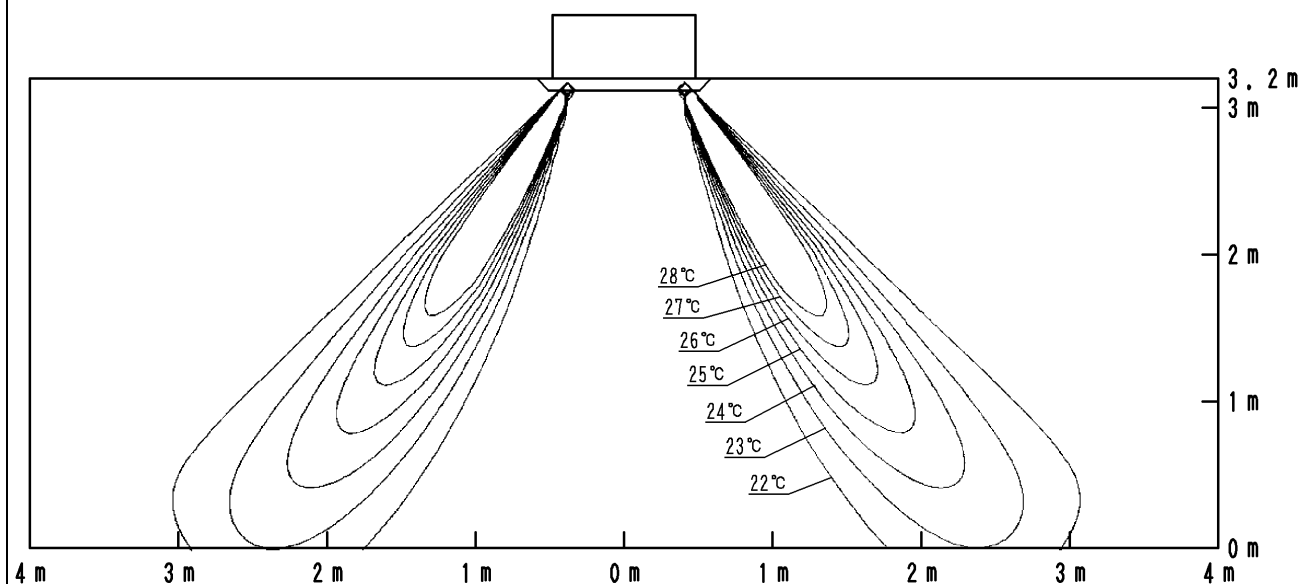
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077046

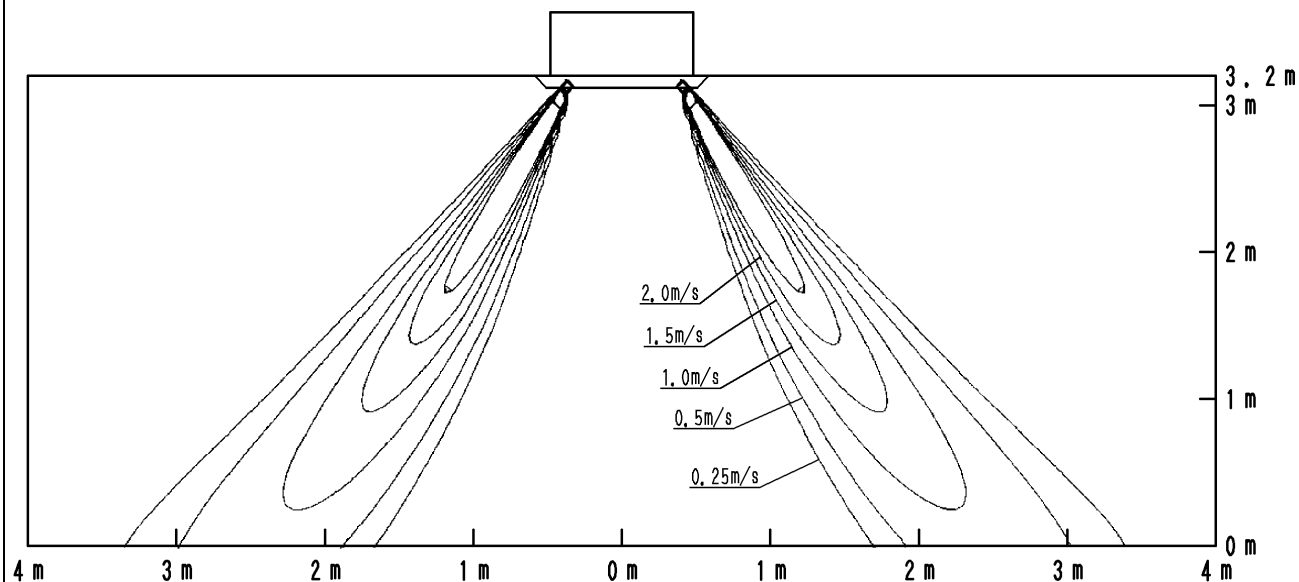
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FCQG125F

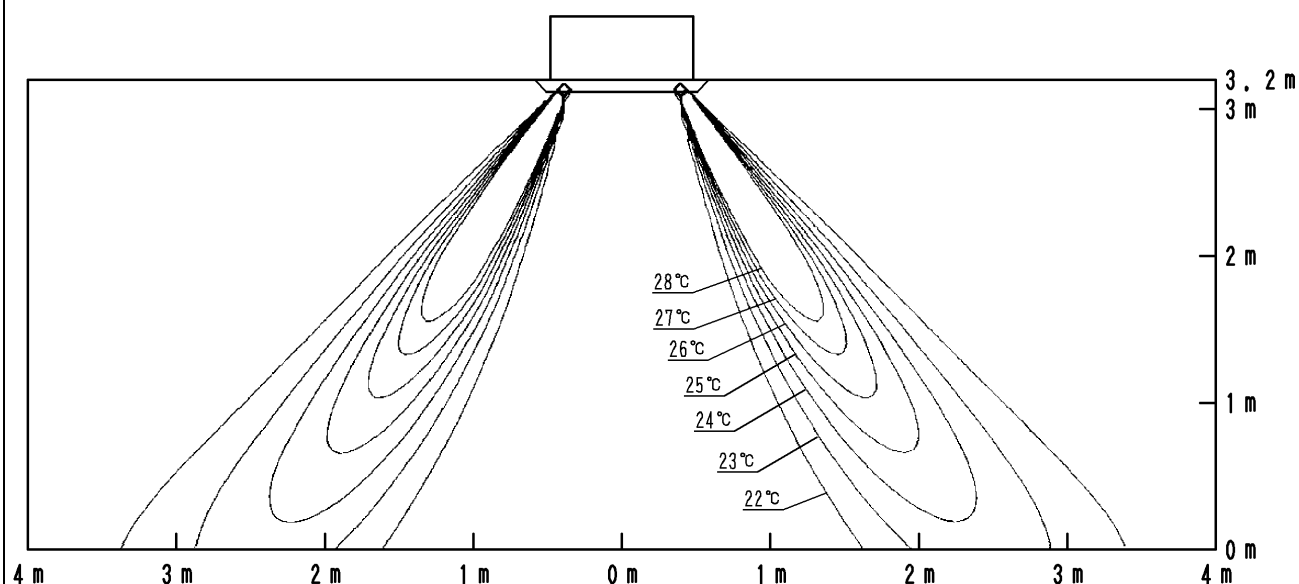
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077047

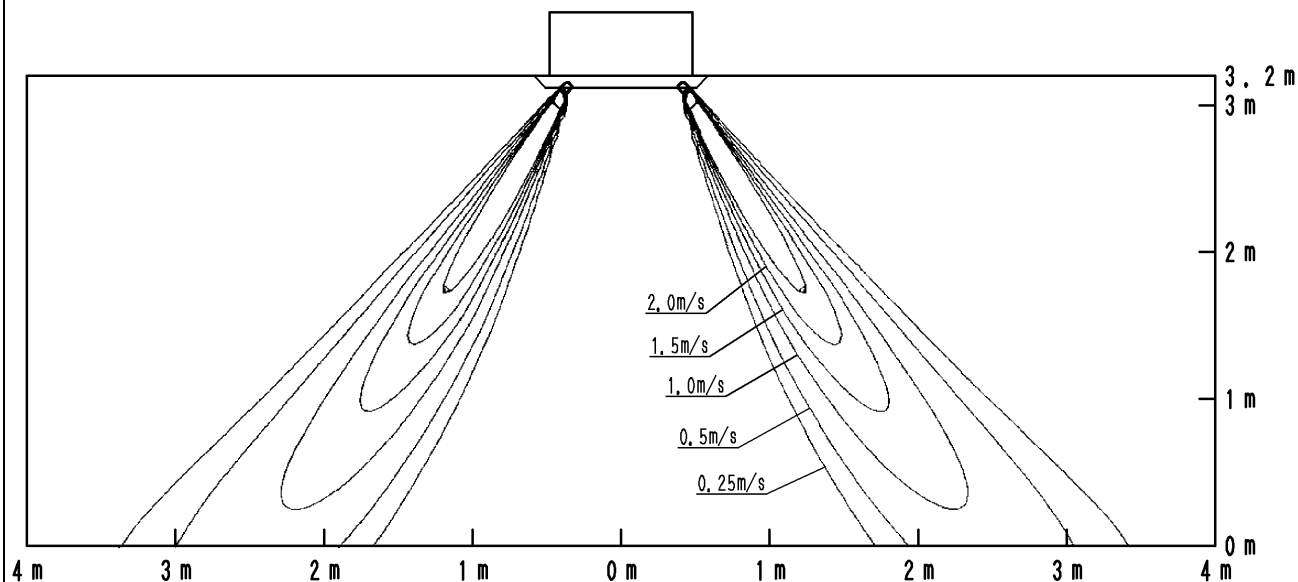
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FCQG140F

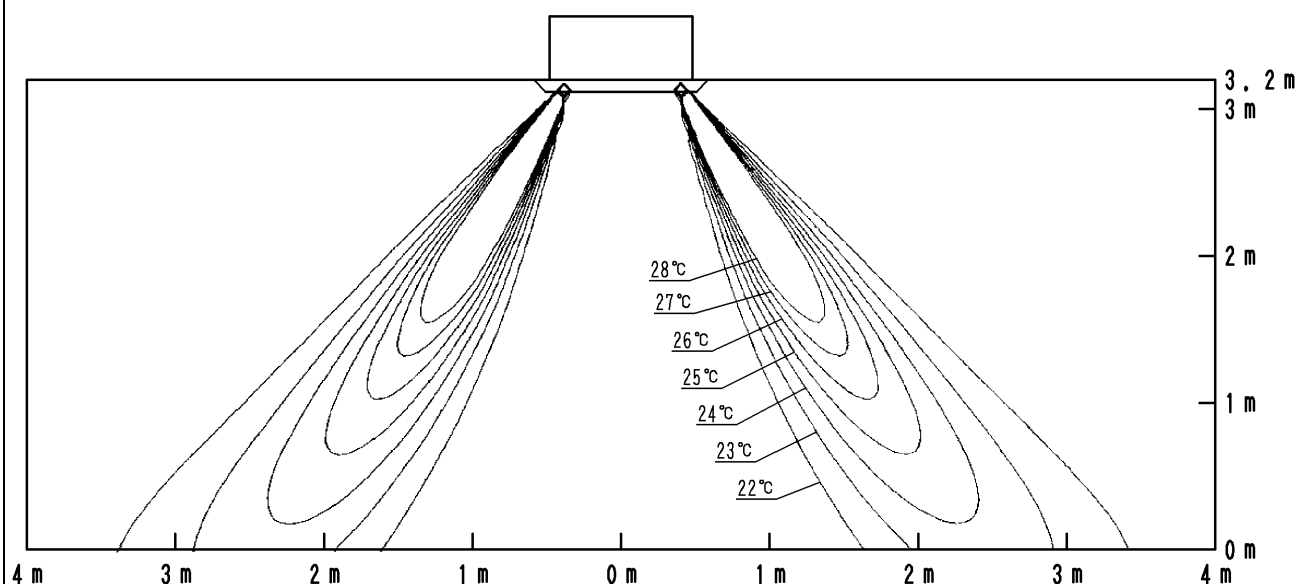
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077048



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