

Air Conditioning
Technical Data

FCAHG-F



- > FCAHG71FVEB
- > FCAHG100FVEB
- > FCAHG125FVEB
- > FCAHG140FVEB

TABLE OF CONTENTS

FCAHG-F

1	Features	2
2	Specifications	3
	Technical Specifications	3
	Electrical Specifications	4
3	Safety device settings	5
4	Options	6
5	Dimensional drawings	7
	Dimensional Drawings with Accessories	7
6	Centre of gravity	10
7	Piping diagrams	11
8	Wiring diagrams	12
	Wiring Diagrams - Single Phase	12
9	External connection diagrams	13
10	Sound data	14
	Sound Level Data	14
	Sound Power Spectrum	15
	Sound Pressure Spectrum	16
	Sound Pressure Spectrum - Cooling	18
	Sound Pressure Spectrum - Heating	22
11	Air flow patterns	26
	Air Flow Pattern - Cooling	26
	Air Flow Pattern - Heating	30

1 Features

First R-32 BLUEEVOLUTION light commercial range available in Europe

- Choosing for an R-32 product, reduces the environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has a 10% lower refrigerant charge
- 5 different fan speeds available for maximum comfort
- Reduces maintenance costs as no yearly refrigerant containment check is required thanks to the low GWP levels
- 360° air discharge ensures uniform air flow and temperature distribution
- High COP cassette ensures top performance, great savings in energy consumption and a comfortable environment for commercial applications
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Modern style decoration panel is available in 4 different variations: white (RAL9010) with grey louvers, full white (RAL9010), auto cleaning panel or auto cleaning panel with fine mesh
- Daily automatic filter cleaning results in higher efficiency & comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter (for fine dust applications e.g. clothing shops)
- Two optional intelligent sensors improve energy efficiency and comfort.
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- User friendly remote control with contemporary design
- Fresh air intake integrated in the same system thus reducing installation cost as no additional ventilation is required
- Standard drain pump with 675mm lift increases flexibility and installation speed



Inverter



Presence & floor sensor



Home leave operation



Fan only



Auto-cleaning filter



Draught prevention



Auto cooling-heating changeover



Whisper quiet



Ceiling soiling prevention



Individual flap control



Vertical auto swing



Fan speed steps



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control

2 Specifications

2-1 Technical Specifications				FCAHG71F	FCAHG100F	FCAHG125F	FCAHG140F	
Casing	Material			Galvanised steel plate				
Dimensions	Unit	Height/Width/Depth	mm	288/840/840				
	Packed unit	Height/Width/Depth	mm	300/880/880				
Weight	Unit	kg		25.0	26.0			
	Packed unit	kg		29.0	30.0			
Packing	Material			Cardboard				
	Weight			kg				
Decoration panel	Model			BYCQ140D7GFW1 - auto cleaning panel with fine mesh filter				
	Colour			Pure White (RAL 9010)				
	Dimensions	HeightxWidthxDepth	mm	130x950x950				
	Weight			kg				
Decoration panel 2	Model			BYCQ140D7GW1 - auto cleaning panel				
	Colour			Pure White (RAL 9010)				
	Dimensions	HeightxWidthxDepth	mm	130x950x950				
	Weight			kg				
Decoration panel 3	Model			BYCQ140D7W1W - full white / (1)				
	Colour			Pure White (RAL 9010)				
	Dimensions	HeightxWidthxDepth	mm	50x950x950				
	Weight			kg				
Decoration panel 4	Model			BYCQ140D7W1 - white with grey louvers				
	Colour			Pure White (RAL 9010)				
	Dimensions	DepthxHeightxWidth	mm	950x50x950				
	Weight			kg				
Heat exchanger	Type			Cross fin coil				
	Inside length			mm				
	Outside length			mm				
	Rows	Quantity		3				
	Fin pitch			mm				
	Passes	Quantity		17				
	Face area			m ²				
	Stages	Quantity		18				
	Empty tubeplate hole	Quantity		0				
	Tube type			Hi-XA				
	Tube diameter			mm				
	Fin	Type		Multi slit fin				
		Treatment		Hydrophilic				
	Air filter	Type			Resin net			
Fan	Type			Turbo fan				
	Quantity			1				
	Air flow rate	Cooling	High	m ³ /min	21.2	32.3	33.5	
			Low	m ³ /min	12.2	19.0	19.9	21.1
	Heating	High	m ³ /min	21.2	32.3	33.5		
Low		m ³ /min	12.2	19.0	19.9	21.1		
Fan motor	Speed	Steps		5				
	Output	High	W	48	106			
Sound power level	Cooling		dBA	53	61			
	Heating		dBA	53	61			
Sound pressure level	Cooling	High/Low	dBA	36/29	44/33	45/35	45/37	
	Heating	High/Low	dBA	36/29	44/33	45/35	45/37	
Refrigerant	Type			R-32				
	GWP			675				

2 Specifications

2

2-1 Technical Specifications				FCAHG71F	FCAHG100F	FCAHG125F	FCAHG140F
Piping connections	Sound absorbing insulation			Foamed polyurethane			
	Liquid	Type/OD	mm	Flare connection/9,52			
	Gas	Type/OD	mm	Flare connection/15.9			
	Drain			VP25 (I.D. 25/O.D. 32)			
	Heat insulation			Foamed polystyrene / Foamed polyethylene			

Standard Accessories : Installation and operation manual;

Standard Accessories : Installation manual;

2-2 Electrical Specifications				FCAHG71F	FCAHG100F	FCAHG125F	FCAHG140F
Power supply	Name			VE			
	Phase			1~			
	Frequency		Hz	50/60			
	Voltage		V	220-240			

Notes

(1) 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.

Contains fluorinated greenhouse gases

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

3 Safety device settings

3 - 1 Safety Device Settings

FCAHG-F

Safety devices		FCQG35FVEB	FCQG50FVEB	FCQG60FVEB	FCQG71FVEB	FCQG100FVEB	FCQG125FVEB	FCQG140FVEB	FCQHG71FVEB	FCQHG100FVEB	FCQHG125FVEB
Fuse		250V 5A	250V 5A	250V 5A	---	---	---	---	---	---	---
Fan motor thermal fuse	°C	---	---	---	---	---	---	---	---	---	---
Fan motor thermal protector	°C	---	---	---	---	---	---	---	---	---	---
Drain pump fuse	°C	---	---	---	---	---	---	---	---	---	---

Safety devices		FCAHG71FVEB	FCAHG100FVEB	FCAHG125FVEB	FCAHG140FVEB
Fuse		---	---	---	---
Fan motor thermal fuse	°C	---	---	---	---
Fan motor thermal protector	°C	---	---	---	---
Drain pump fuse	°C	---	---	---	---

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4 Options

4 - 1 Options

FCAHG-F

Options

Item	FCAHG1FVEB	FCAHG100FVEB	FCAHG120FVEB	FCAHG140FVEB
1 Decoration panel - Standard		BYCQ140D7W1		
Decoration panel - White		BYCQ140D7W1W	-3	
Self-cleaning decoration panel		BYCQ140D7W1B	BYCQ140D7GW1	-5, -6, -12
2 Long-life replacement filter (nonwoven type)		KAFP551K160		
3 Chamber (part of fresh air intake kit (20% fresh air))		KDDQ55B140-1	-7, -8	
Diffuser from chamber to duct (part of fresh air intake kit (20% fresh air))		KDDQ55B140-2	-7, -8	
4 Air discharge outlet sealing member		KDSH255B140	-7	
5 Sensor kit		BRVY140A7		

Control systems

Item	FCAHG1FVEB	FCAHG100FVEB	FCAHG120FVEB	FCAHG140FVEB
1-1 Wireless remote control HP		BRCT7A32F	-7	
Wired remote control		BRCTD52B	-4	
		BRCTE51A	-4	
		BRCTE52A / BRCTE52B		
		BRCTE53A / BRCTE53B / BRCTE53C		
1-2 Simplified remote control (with operation mode selector button)		BRCE52C	-9	
1-3 Simplified remote control (without operation mode selector button)		BRCE52C	-9	
2-1 Wiring adaptor for electrical appendices (1)		KRP1BA07	-2, -7	
2-2 Wiring adaptor for electrical appendices (2)		KRP4AA53	-7, -8	
2-3 Wiring adaptor (hour meter)		EKRPI1C11	-2, -7	
3 Remote sensor		KRCS014B		
4 Installation box for adaptor PCB		KRP1H08	-7	
5 Control remote control		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		
11 Digital input adaptor		BRP7A53		

Notes

- All options are kits.
- Requires installation box for adaptor PCB.
- Be aware that dirt formation is more easily visible on white insulation.
- It is recommended not to install this option in environments with a high concentration of dirt.
- Not recommended because of its limited functionality.
- To be able to control option BYCQ140D7GW1/BYCQ140D7GFW1, controller BRCTE is required.
- Option BYCQ140D7GW1/BYCQ140D7GFW1 cannot be used with mini-VRV, multi, and non-inverter split outdoor units.
- This option cannot be combined with BYCQ140D7GW1/BYCQ140D7GFW1.
- Both parts of the fresh air intake kit are required for each unit.
- Included languages are:
Language pack 1: English, German, French, Dutch, Spanish, Italian, and Portuguese.
With PC cable KPCPCAB3 in combination with the Updater PC software, you can additionally change the language to:
Language pack 2: English, Bulgarian, Croatian, Czech, Hungarian, Romanian, and Slovenian.
Language pack 3: English, Greek, Polish, Russian, Serbian, Slovak, and Turkish.
- Only possible in combination with simplified remote control BRCE52C.
- Requires installation box for adaptor PCB.
- This option is intended exclusively for use in fine dust environments (e.g. clothing shops). Do not use it in environments that are greasy, or have high humidity.

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5 Dimensional drawings

5 - 1 Dimensional Drawings with Accessories

FCAHG-F

Maximum: 300
420
880-910
380
780
Ceiling opening See note 3.
Suspension position 880-910
710
Ceiling opening See note 3.
55 840 55
125-130
2500 or more
Required installation space

See note 5. 7 6 5 Drain side
950
See note 6. 10
213
180
950
Piping side

Detail B
2 places
Opposite side
151
54.5 54.5
121.6
100 100 100
85
131

Detail C
2 places
Opposite side
350
121.6
81 100 100 85
131

Item Name
① Liquid pipe connection port
② Gas pipe connection port
③ Drain pipe connection
④ Power supply wiring intake
⑤ Transmission wiring intake hole
⑥ Air discharge outlet
⑦ Air suction grille
⑧ Corner decoration cover
⑨ Drain hose
⑩ Knockout hole

View A
175 10 40 55 340 840 55
Adjustable
Suspension bolt 4 x M8 - M10
280 330
117 113
AA

Respect the distances shown on the figure.

Ceiling-mounted lighting Air fan Other unit
1500 or more 2000 or more 4000 or more

200 or more 1500 or more 1500 or more 1500 or more
200 or more 1500 or more
Required installation space
If a discharge outlet is closed up with the "sealing member" option kit, then the required installation space on that (closed up) side is 500mm instead of 1500mm.

Notes
1. The unit nameplate is located on the switch box cover.
The decoration panel nameplate is located on the piping-side panel frame, under the corner cover.
2. When installing optional accessories, refer to their respective documentation.
When installing a fresh air intake kit, an inspection hole is required.
3. Make sure the distance between the ceiling and the cassette does not exceed 35mm.
The maximum ceiling opening is 910mm.
4. When the conditions in the ceiling exceed 30°C ambient temperature and 80% relative humidity, or when fresh air is inducted into the ceiling, additional insulation is required (polyethylene foam, thickness ≥10mm).
5. When installing a sensor kit, there will be a sensor on this location. For details, see the drawing of the sensor kit.
6. When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.

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FCAHG-F

Maximum: 300
420
880-910
380
780
Ceiling opening See note 3.
Suspension position 880-910
710
Ceiling opening See note 3.
55 840 55
125-130
2500 or more
Required installation space

See note 5. 7 6 5 Drain side
950
See note 6. 10
213
180
950
Piping side

Detail B
2 places
Opposite side
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54.5 54.5
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100 100 100
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Item Name
① Liquid pipe connection port
② Gas pipe connection port
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⑨ Drain hose
⑩ Knockout hole

View A
175 10 40 55 340 840 55
Adjustable
Suspension bolt 4 x M8 - M10
280 330
117 113
AA

Respect the distances shown on the figure.

Ceiling-mounted lighting Air fan Other unit
1500 or more 2000 or more 4000 or more

200 or more 1500 or more 1500 or more 1500 or more
200 or more 1500 or more
Required installation space
If a discharge outlet is closed up with the "sealing member" option kit, then the required installation space on that (closed up) side is 500mm instead of 1500mm.

Installation direction
Dust opening
Piping Piping
Air suction grille

Notes
1. The unit nameplate is located on the switch box cover.
The decoration panel nameplate is located on the piping-side panel frame, under the corner cover.
2. When installing optional accessories, refer to their respective documentation.
When installing a fresh air intake kit, an inspection hole is required.
3. Make sure the distance between the ceiling and the cassette does not exceed 35mm.
The maximum ceiling opening is 910mm.
4. When the conditions in the ceiling exceed 30°C ambient temperature and 80% relative humidity, or when fresh air is inducted into the ceiling, additional insulation is required (polyethylene foam, thickness ≥10mm).
5. When installing a sensor kit, there will be a sensor on this location. For details, see the drawing of the sensor kit.

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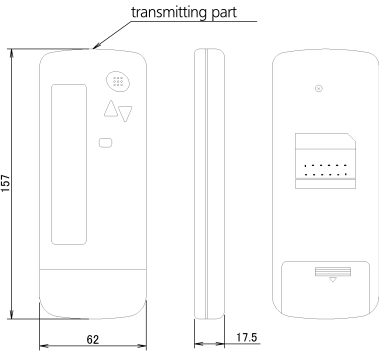
5 Dimensional drawings

5 - 1 Dimensional Drawings with Accessories

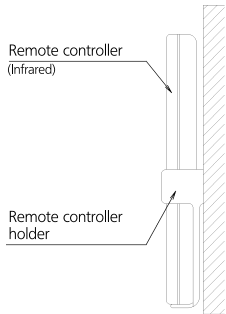
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FCAHG-F

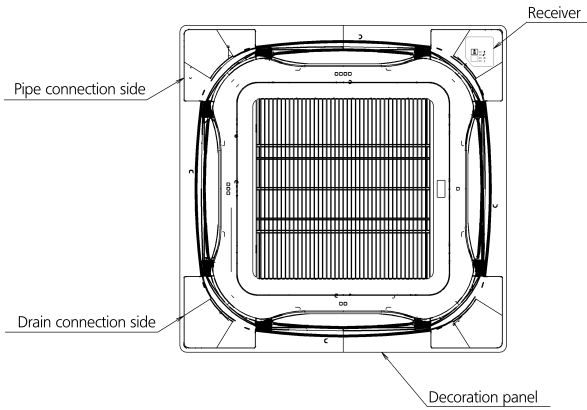
Remote controller dimensions



Remote controller holder Installation procedure (Installation to wall surface)



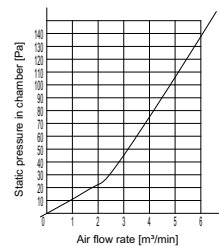
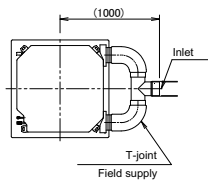
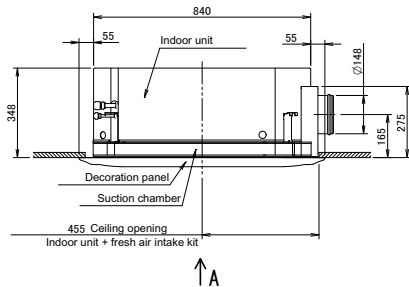
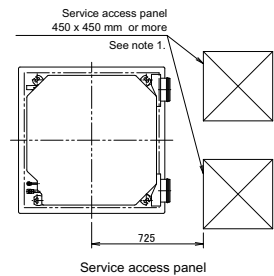
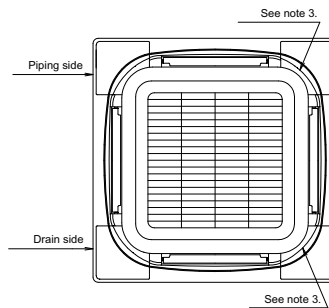
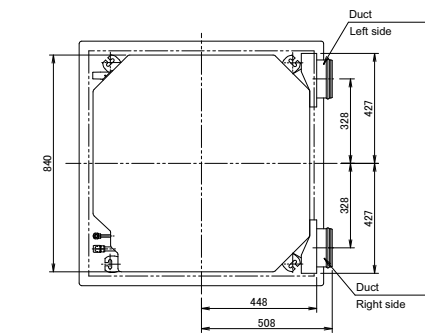
Receiver detail



Sensor kit	Decoration panel
BRC7FA532F	BYCQ140D7W1(W)

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FCAHG-F



Notes

- When installing a fresh air intake kit, provide a service access panel.
- Field construction
- This corner discharge outlet needs to be closed.
- When installing a duct fan, use a wiring adapter to link the duct fan to the fan of the indoor unit.
- The intake air flow rate is recommended to be ≤20% of the air flow rate at high fan speed.
If the intake air flow rate is too large, the operating sound may increase, and the detection of the indoor unit suction temperature may be affected.
- This indicates the distance between the T-joint inlet and the indoor unit inlet when the T-tube is connected.

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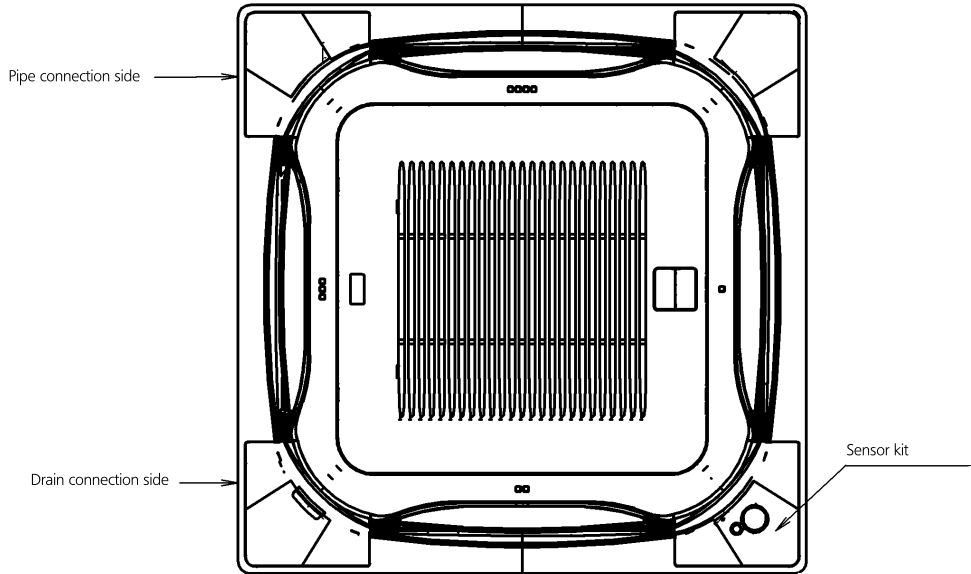
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5 Dimensional drawings

5 - 1 Dimensional Drawings with Accessories

FCAHG-F

Sensor kit installation procedure



Sensor kit	Decoration panel
BRYQ140A7	BYCQ140D7W1(W) BYCQ140D7GW1

Decoration panel

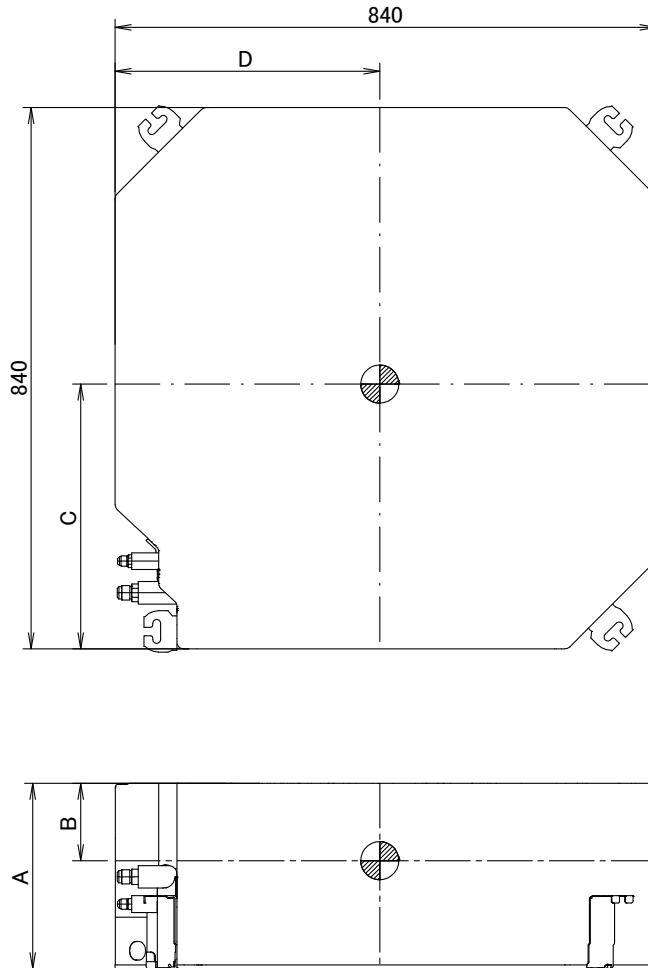
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6 Centre of gravity

6 - 1 Centre of Gravity

6

FCAHG-F



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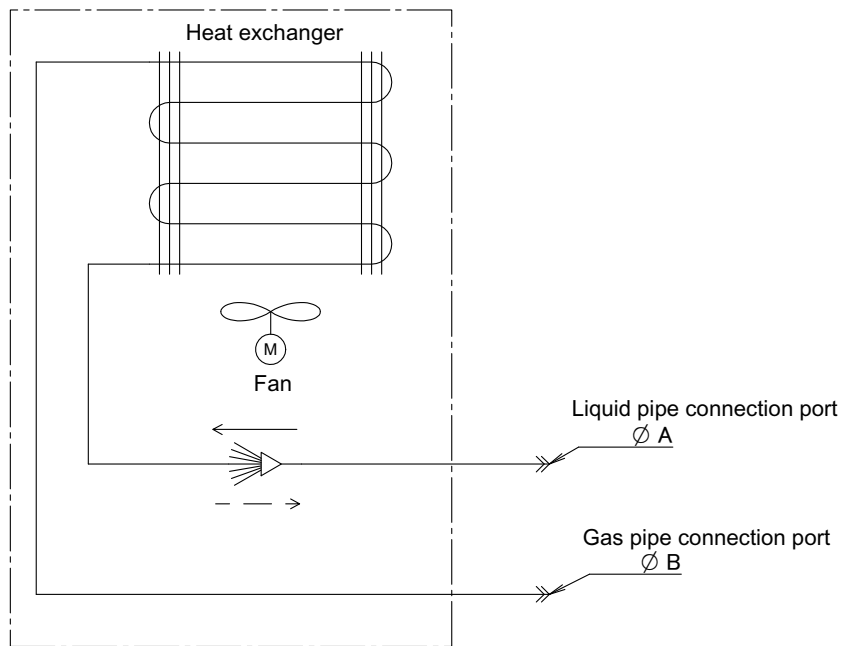
7 Piping diagrams

7 - 1 Piping Diagrams

FCAHG-F

Refrigerant flow

Cooling ———>
Heating - - ->



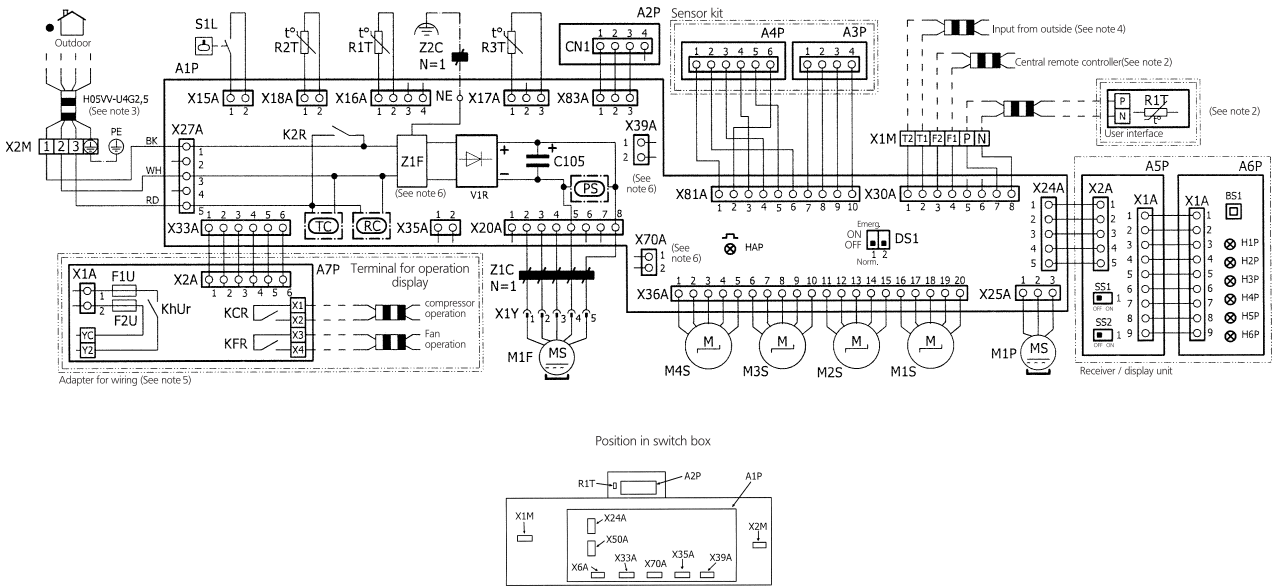
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8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

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FCAHG-F



LEGEND

* : field installed option
: field supplied

A1P	: Main PCB	M*5	: Motor (swing flap)
A2P	: Adapter PCB	PS (A1P)	: Power supply
A3P, A4P	* : Sensor kit PCB	R1T	: Thermistor (air)
A5P, A6P	* : Receiver/display PCB	R2T	: Thermistor (liquid pipe)
A7P	* : Adapter for wiring	R3T	: Thermistor (coil)
BS1 (A6P)	: Push button (on/off)	RC (A1P)	: Signal receiver circuit
C105 (A1P)	: Capacitor	SS1 (A5P)	: Selector switch (emergency)
DS1 (A1P)	: Dipswitch	SS2 (A5P)	: Selector switch (infrared address set)
F1U (A7P)	: Fuse B, 5A 250V	S1L	: Float switch
F2U (A7P)	: Fuse B, 5A 250V	TC (A1P)	: Signal transmission circuit
HAP (A1P)	: running LED (Service monitor-green)	V1R (A1P)	: Diode module
H1P (A6P)	: LED (on-red)	X1A (A7P)	: Connector (power supply for option PCB)
H2P (A6P)	: LED (timer-green)	X2A (A7P)	: PCB connector (Sensor kit)
H3P (A6P)	: LED (filter sign-red)	X24A (A1P)	: PCB connector (Infrared remote controller)
H4P (A6P)	: LED (defrost-orange)	X33A (A1P)	: PCB connector (Adapter for wiring)
H5P (A6P)	: LED (element cleaning - red)	X35A (A1P)	: PCB connector (Auto clean panel)
H6P (A6P)	: LED (ventilation cleaning - green)	X39A (A1P)	: PCB connector (Auto clean panel)
KCR (A7P)	: Magnetic relay	X70A (A1P)	: PCB connector (Auto clean panel)
KFR (A7P)	: Magnetic relay	X*A	: PCB connector
KHuR (A7P)	: Magnetic relay (Hu)	X*M	: Terminal strip
K2R (A7P)	: Magnetic relay	X*Y	: Connector
M1F	: Fan motor (Indoor)	Z*C	: Noise filter (Ferrite core)
M1P	: Motor (drain pump)	Z*F	: Noise filter

NOTES TO GO THROUGH BEFORE STARTING THE UNIT

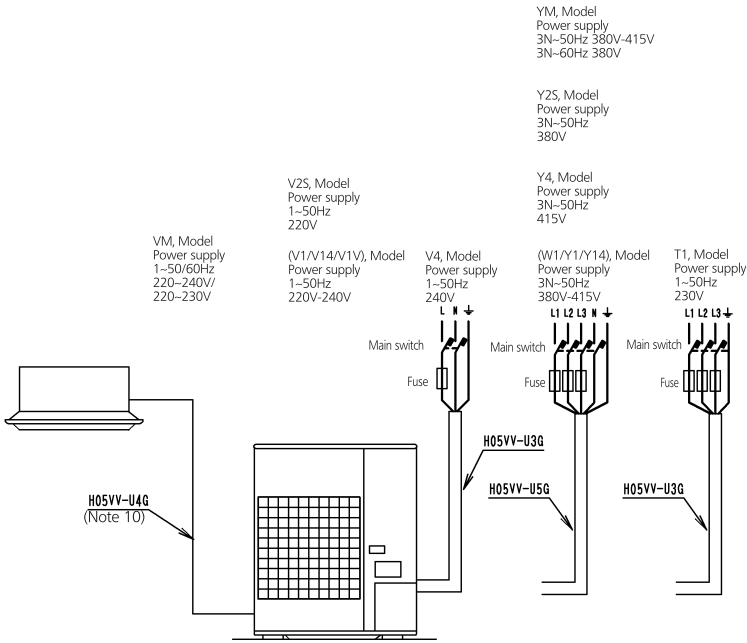
- X1M: Main terminal — — — — : Earth wiring, 15 : Wire number 15, - - - - - : Field wire, ■■■■■ : Field cable, □ : Option
□ : Wiring depending on model □ : Not mounted in switchbox □ : PCB **/12,2: Connection ** continues on page 12 column 2 ①: Several wiring possibilities
- In case using central remote control, connect it to the unit in accordance with the attached instruction manual
- In case of main/sub changeover, see the installation manual attached to remote controller.
- Shows only in case of protected pipes, use HO7RN-F in case of no protection.
- 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.
- Connect power of adaptor for wiring to terminal block (X2M) of indoor unit directly.
- X33A, X39A, X70A are connected when the optional accessories are being used. In case of using an auto clean panel, see the wiring diagram of it.

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9 External connection diagrams

9 - 1 External Connection Diagrams

FCAHG-F



NOTES

- 1 Line voltage wiring
- 2 Control circuit wiring
- 3 All wiring, components and materials to be procured on the site must comply with the applicable local and national codes.
- 4 Use copper conductors only.
- 5 As for details, see wiring diagram.
- 6 Install fuse and mainswitch for safety.
- 7 All field wiring and components must be provided by a licensed electrician.
- 8 The unit shall be grounded in compliance with the applicable local and national codes.
- 9 Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
- 10 Never share a common power source with other equipment.
- 11 Show only in case of protected pipes. Use HO7RN-F in case of no protection.

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10 Sound data

10 - 1 Sound Level Data

FCAHG-F

Maximum fresh air intake flow rate

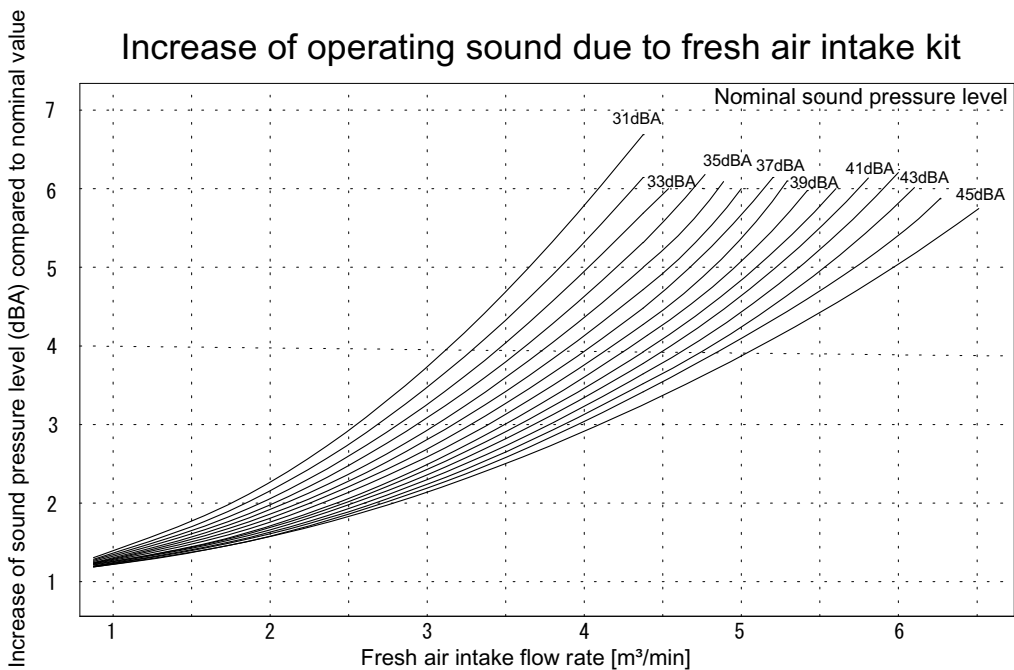
If the intake air flow rate is too large, the operating sound may increase, and the detection of the indoor unit suction temperature may be affected.

FCCG-FVEB	35	50	60	71	100	125	140
Maximum fresh air intake flow rate [m ³ /min]	2,5	2,5	2,7	3,0	4,5	5,2	5,2

FCCHG-FVEB	71	100	125	140
Maximum fresh air intake flow rate [m ³ /min]	4,2	6,4	6,7	6,7

FCAHG-FVEB	71	100	125	140
Maximum fresh air intake flow rate [m ³ /min]	4,2	6,4	6,7	6,7

FXFQ-AVEB	20	25	32	40	50	63	80	100	125
Maximum fresh air intake flow rate [m ³ /min]	2,5	2,5	2,5	2,7	3,0	3,3	4,5	5,3	6,6

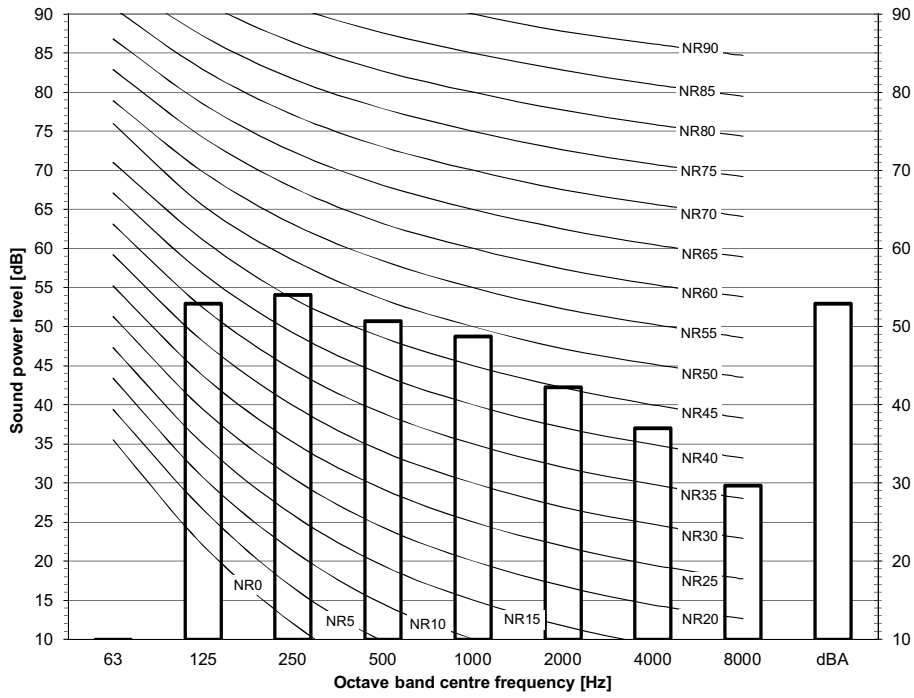


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10 Sound data

10 - 2 Sound Power Spectrum

FCAHG71F



Notes
 - dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity 0dB = 10E-6µW/m²
 - Measured according to ISO 3744

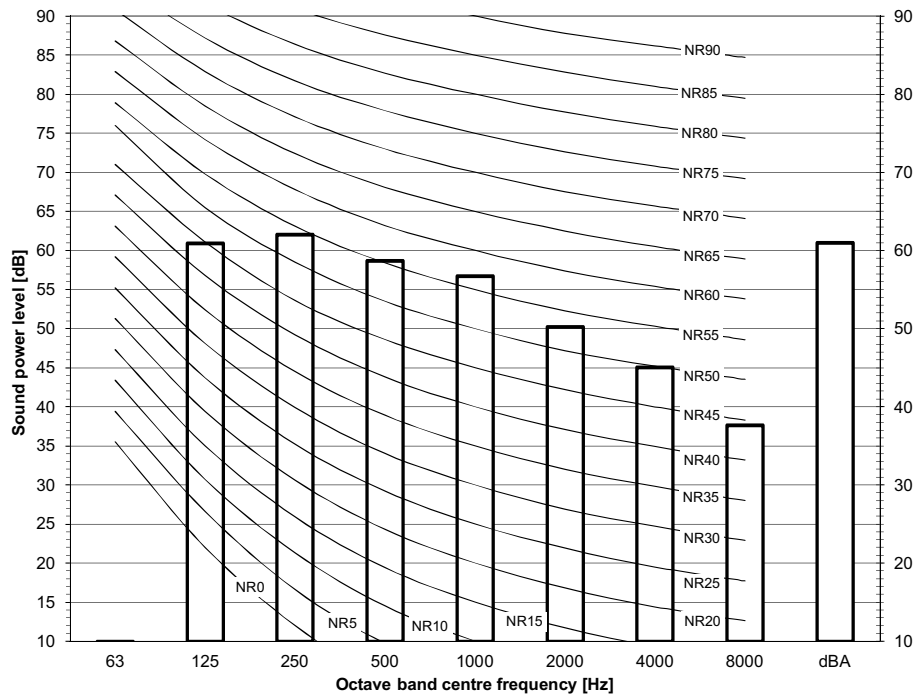
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10 Sound data

10 - 3 Sound Pressure Spectrum

10

FCAHG100F



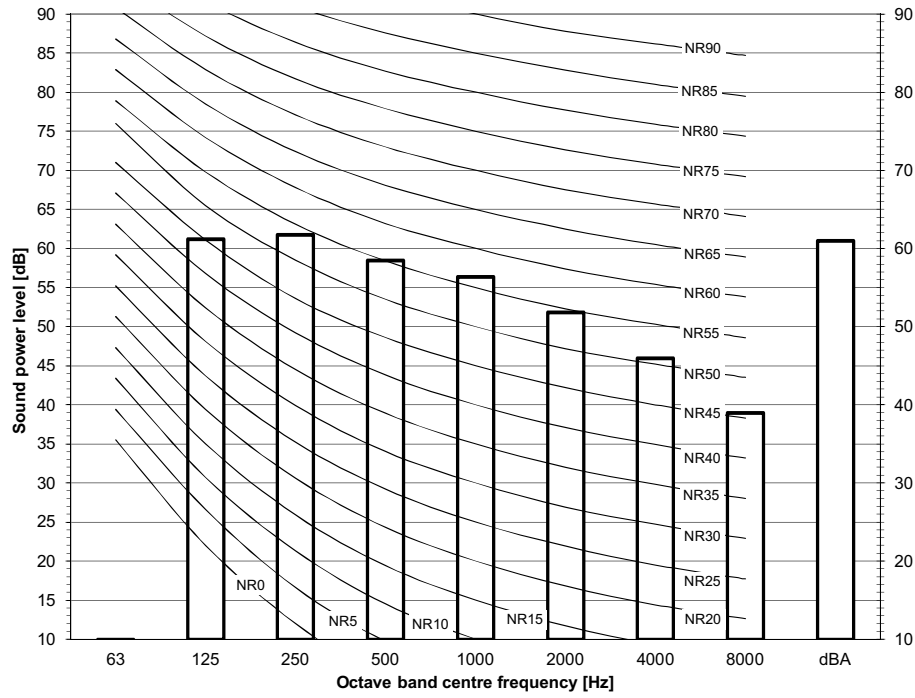
Notes
 - dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity $0\text{dB} = 10^{-6}\mu\text{W}/\text{m}^2$
 - Measured according to ISO 3744

3D103167

10 Sound data

10 - 3 Sound Pressure Spectrum

FCAHG125-140F



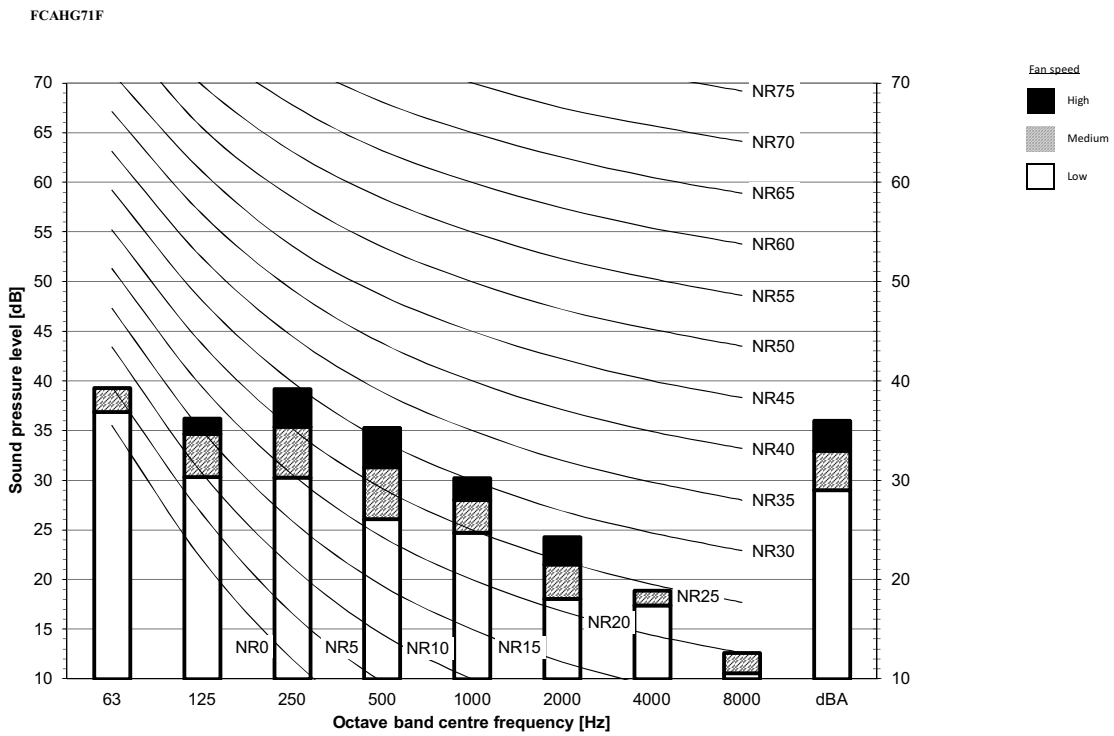
Notes
 - dBA = A-weighted sound power level (A scale according to IEC).
 - Reference acoustic intensity 0dB = 10E-6W/m²
 - Measured according to ISO 3744

3D103168

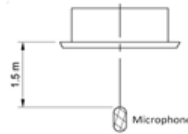
10 Sound data

10 - 4 Sound Pressure Spectrum - Cooling

10



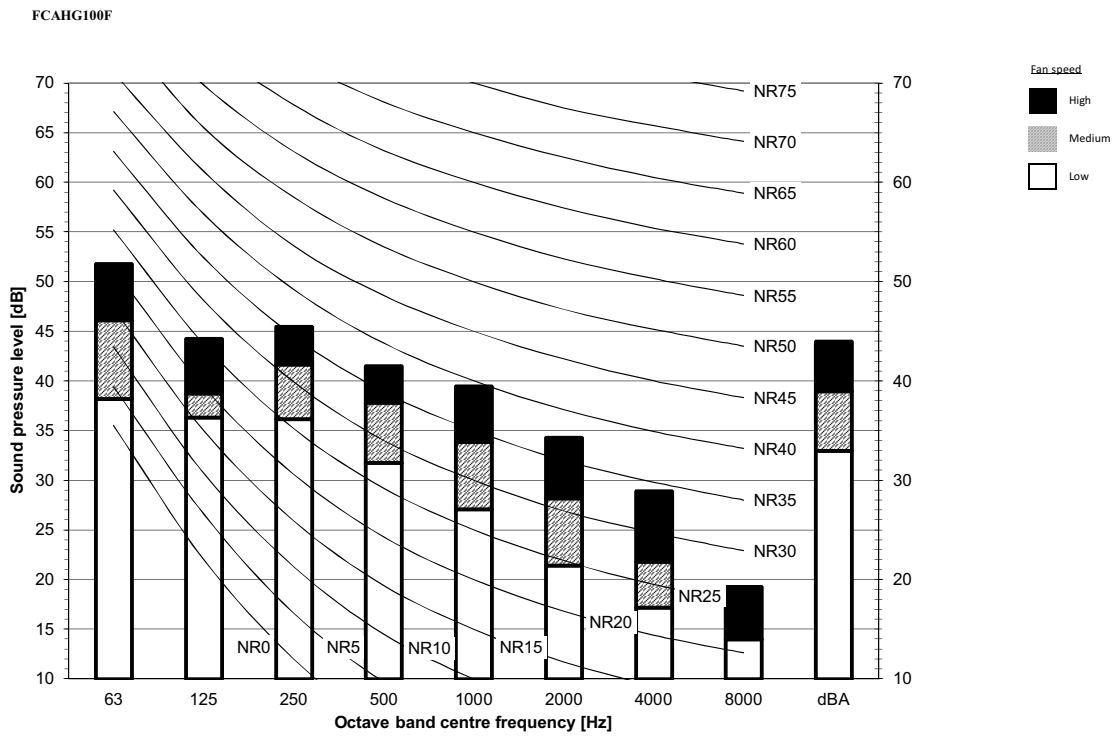
- Notes**
- Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 μPa



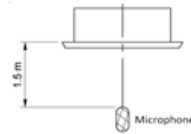
3D103013

10 Sound data

10 - 4 Sound Pressure Spectrum - Cooling



- Notes**
- Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 μPa

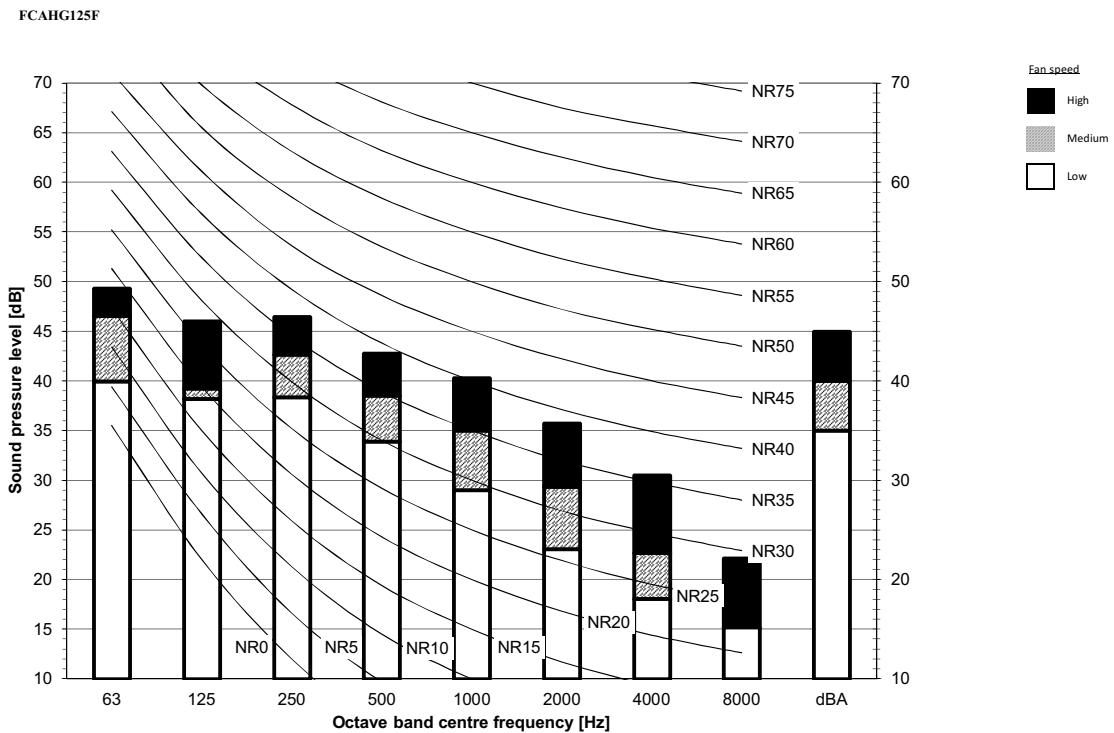


3D103014

10 Sound data

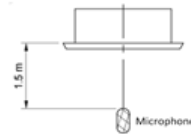
10 - 4 Sound Pressure Spectrum - Cooling

10



Notes

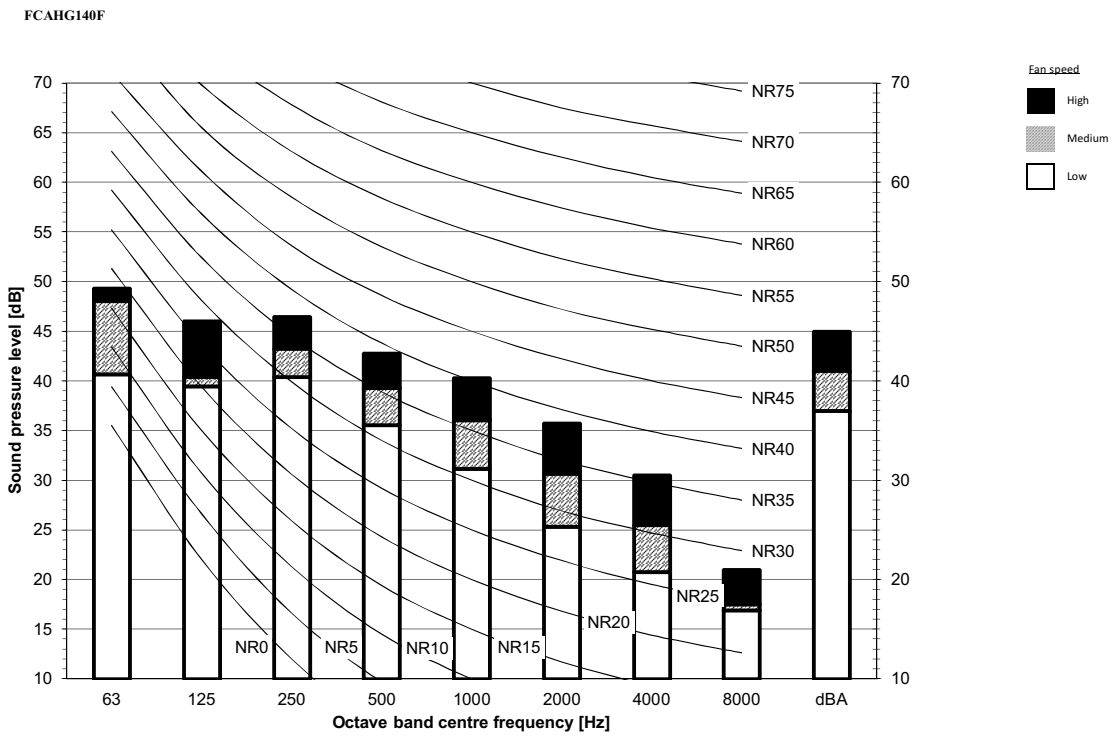
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 µPa



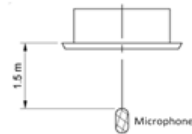
3D103015

10 Sound data

10 - 4 Sound Pressure Spectrum - Cooling



- Notes**
- Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 μPa

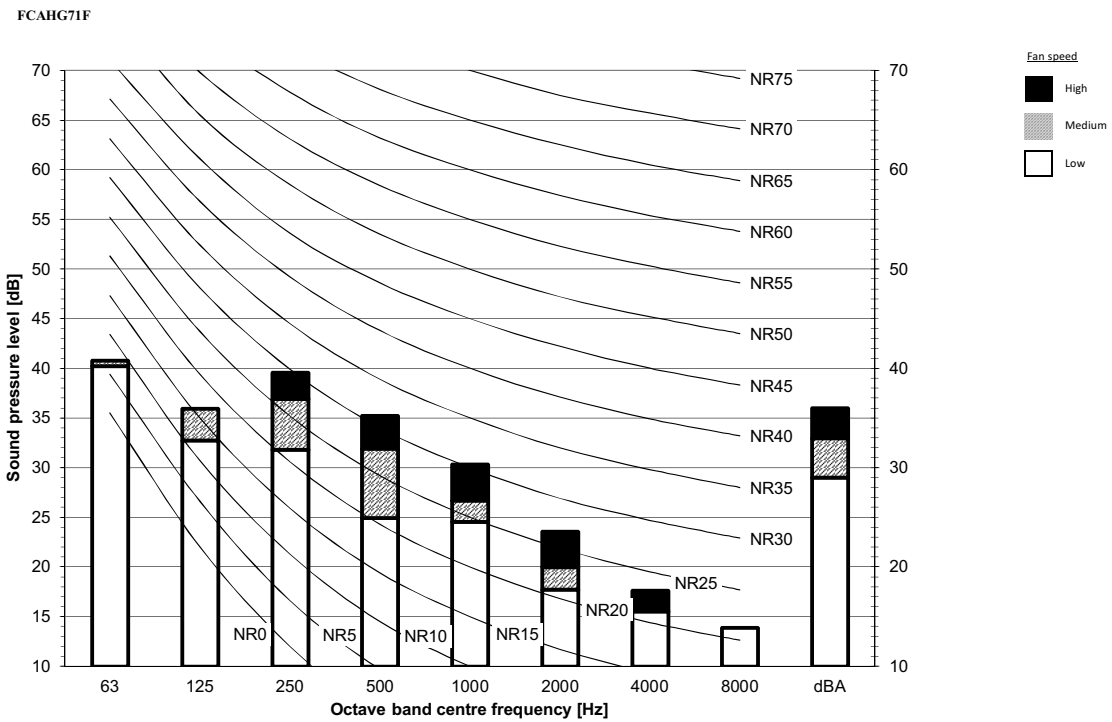


3D103016

10 Sound data

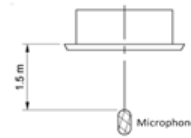
10 - 5 Sound Pressure Spectrum - Heating

10



Notes

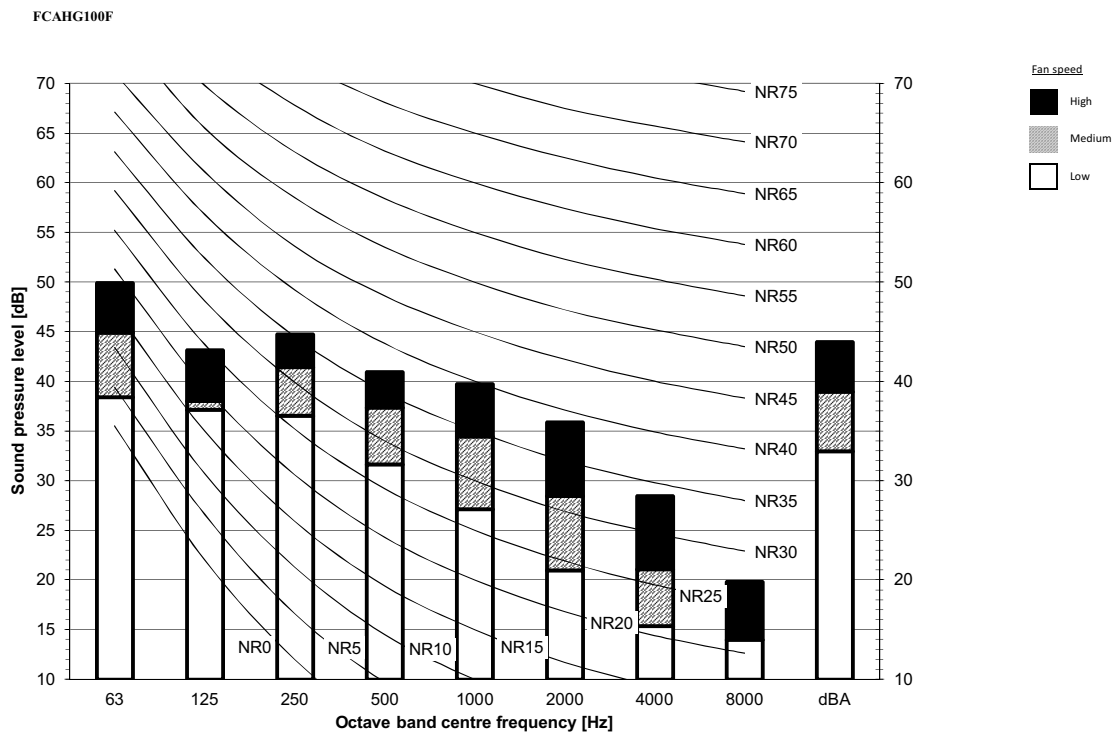
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μPa



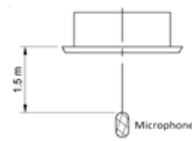
3D103017

10 Sound data

10 - 5 Sound Pressure Spectrum - Heating



Notes
 - Data is valid at free field condition.
 - Data is valid at nominal operation condition.
 - dBA = A-weighted sound pressure level (A scale according to IEC).
 - Reference acoustic pressure 0 dB = 20 µPa

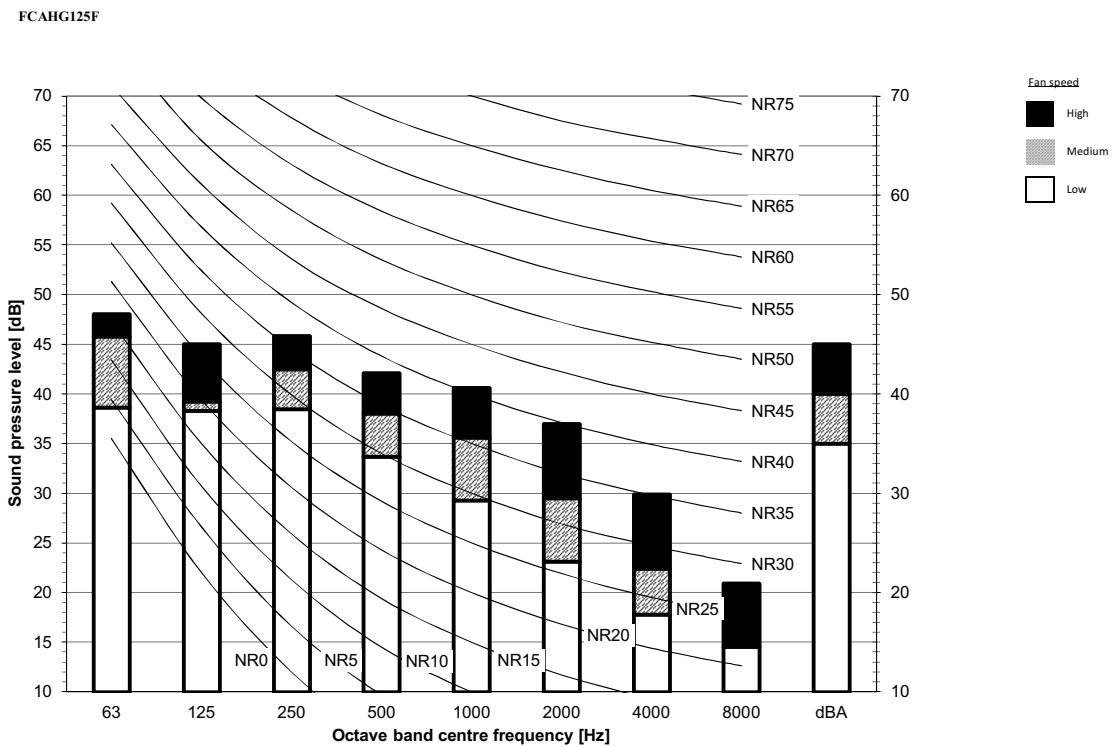


3D103018

10 Sound data

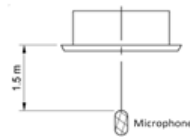
10 - 5 Sound Pressure Spectrum - Heating

10



Notes

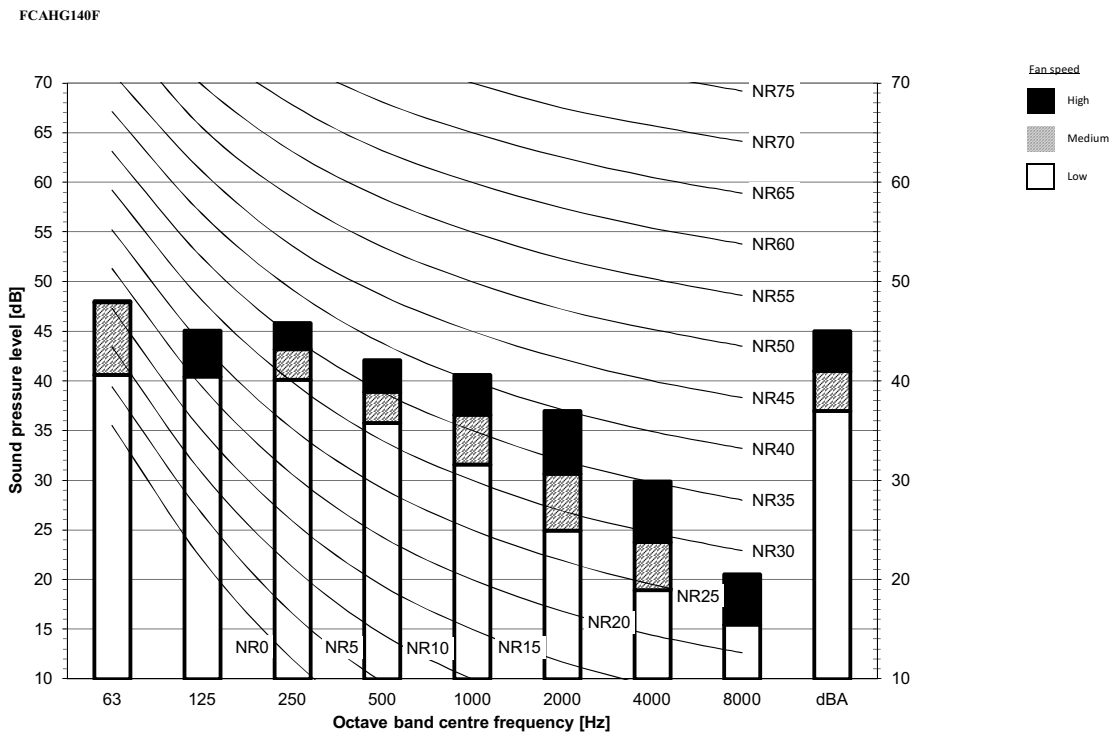
- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μPa



3D103019

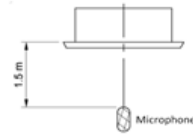
10 Sound data

10 - 5 Sound Pressure Spectrum - Heating



Notes

- Data is valid at free field condition.
- Data is valid at nominal operation condition.
- dBA = A-weighted sound pressure level (A scale according to IEC).
- Reference acoustic pressure 0 dB = 20 μPa

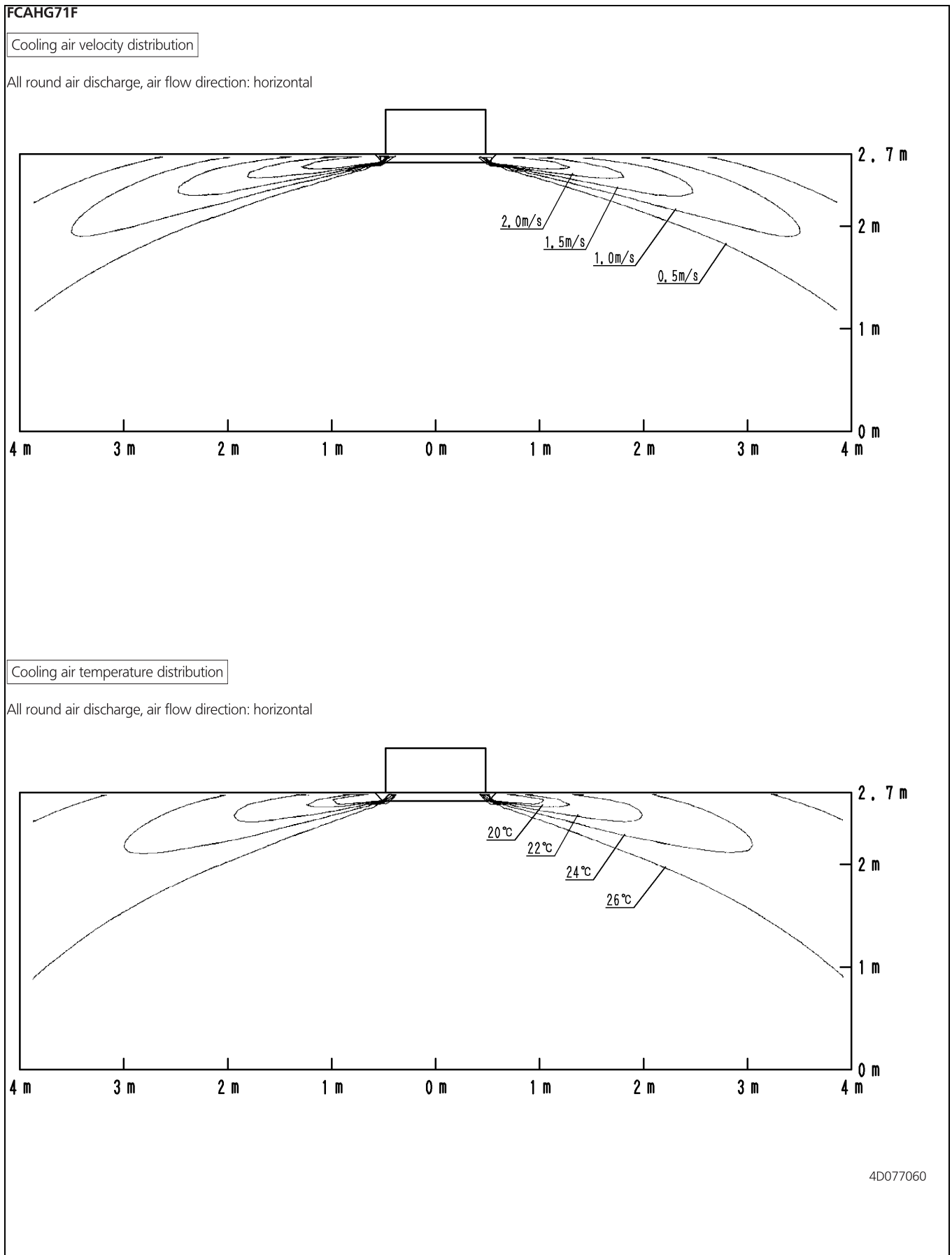


3D103020

11 Air flow patterns

11 - 1 Air Flow Pattern - Cooling

11



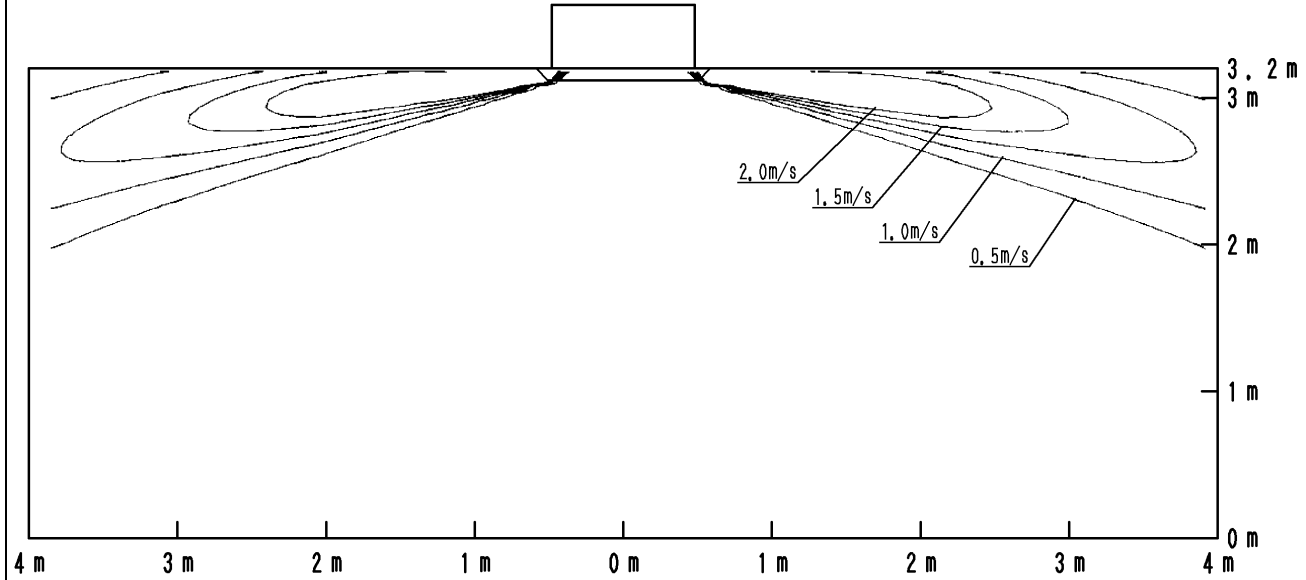
11 Air flow patterns

11 - 1 Air Flow Pattern - Cooling

FCAHG100F

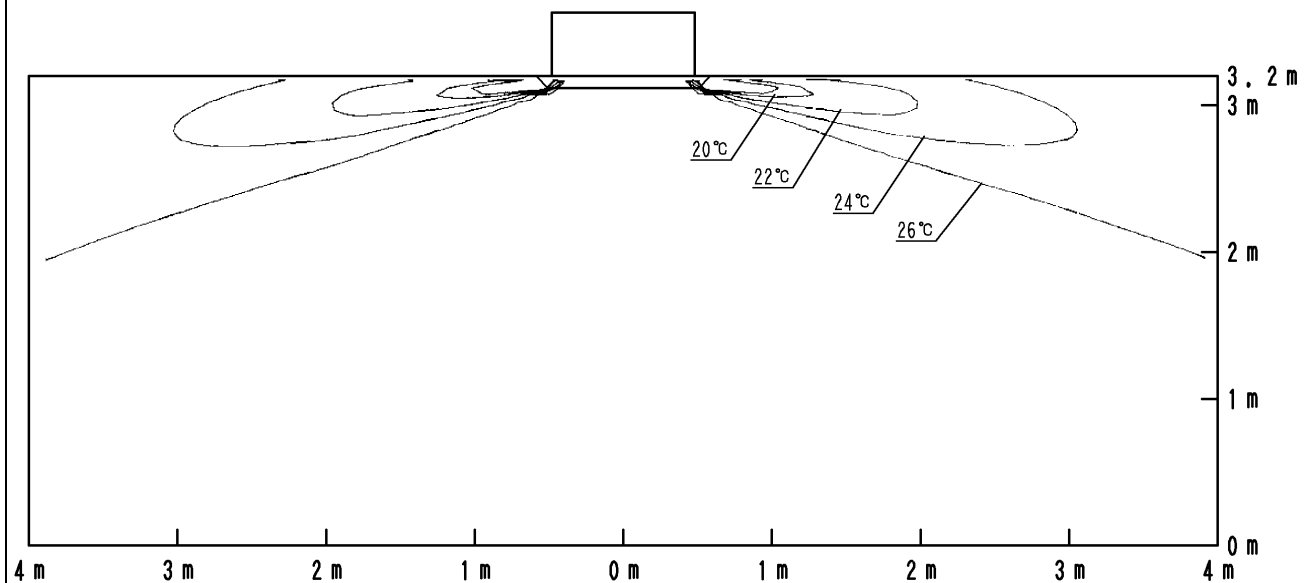
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077061

11 Air flow patterns

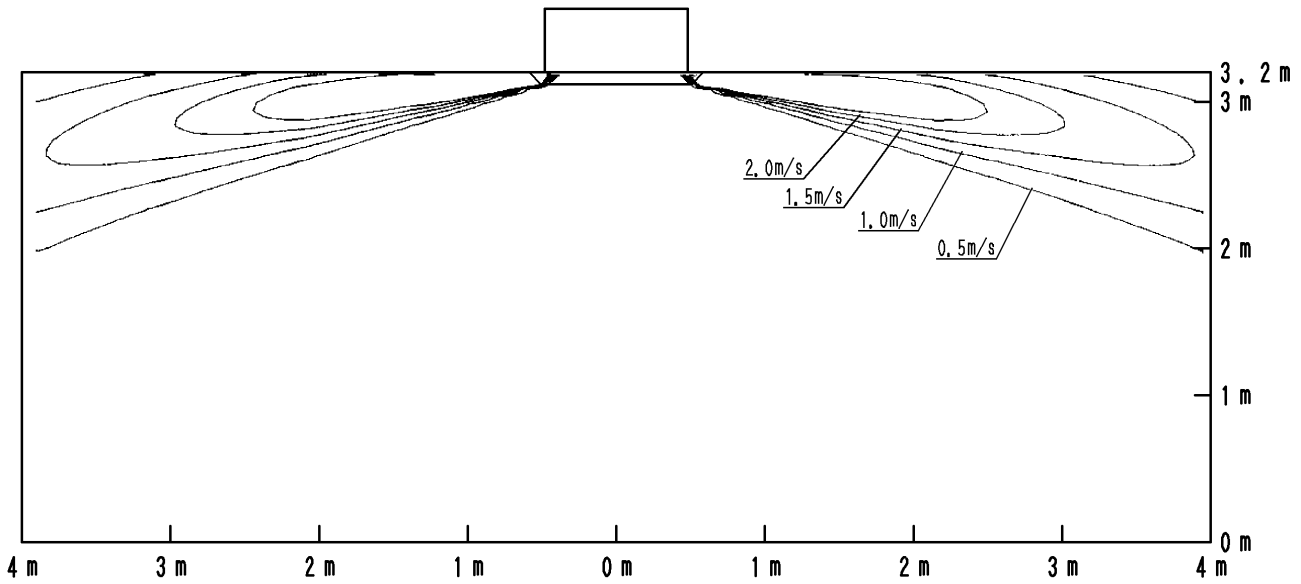
11 - 1 Air Flow Pattern - Cooling

11

FCAHG125F

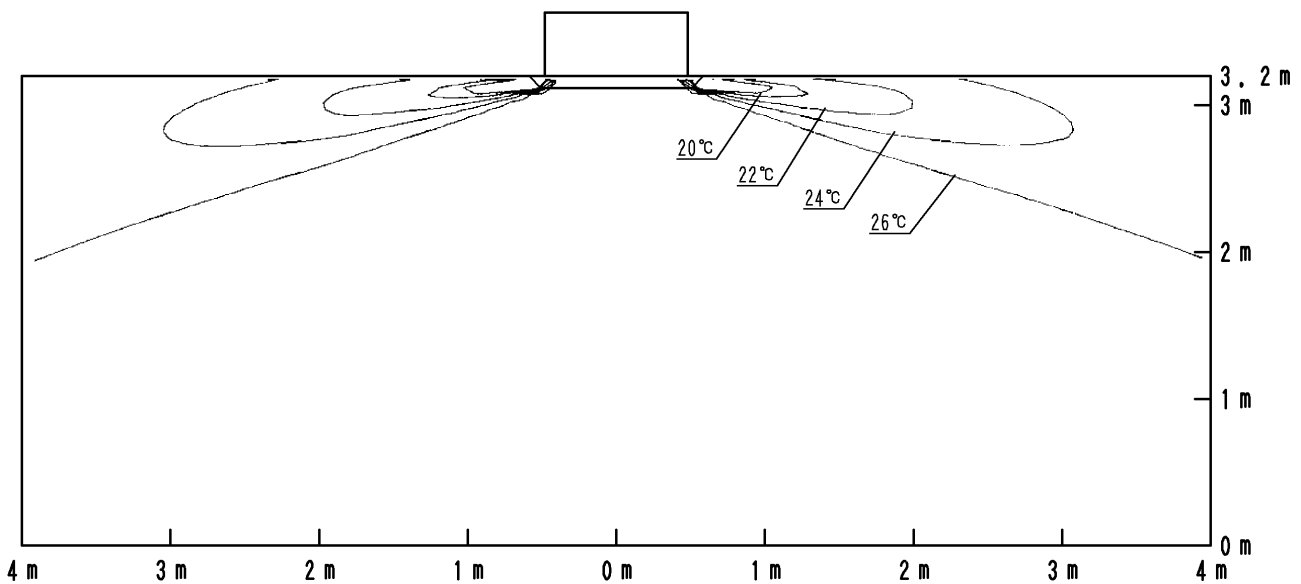
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077062

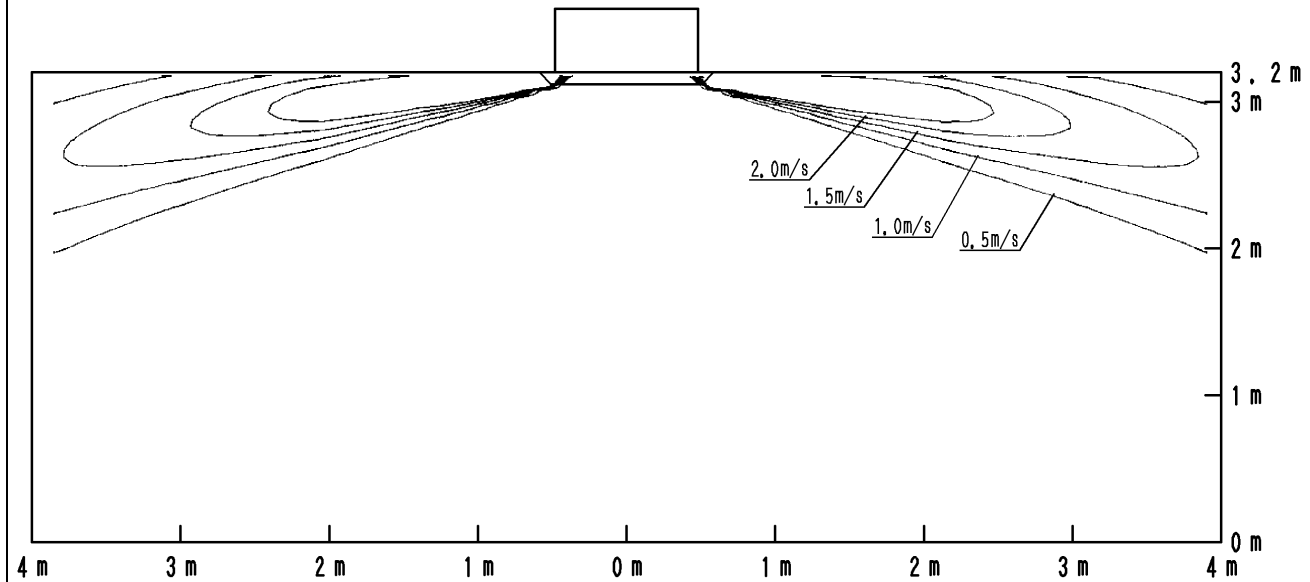
11 Air flow patterns

11 - 1 Air Flow Pattern - Cooling

FCAHG140F

Cooling air velocity distribution

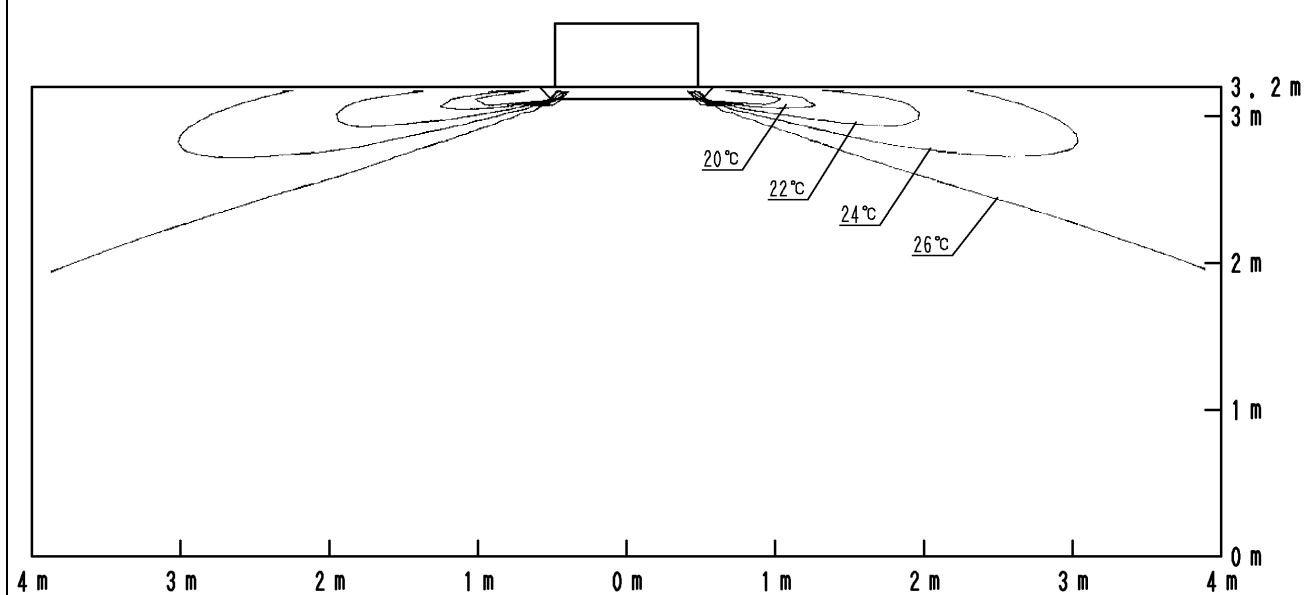
All round air discharge, air flow direction: horizontal



11

Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D077063A

11 Air flow patterns

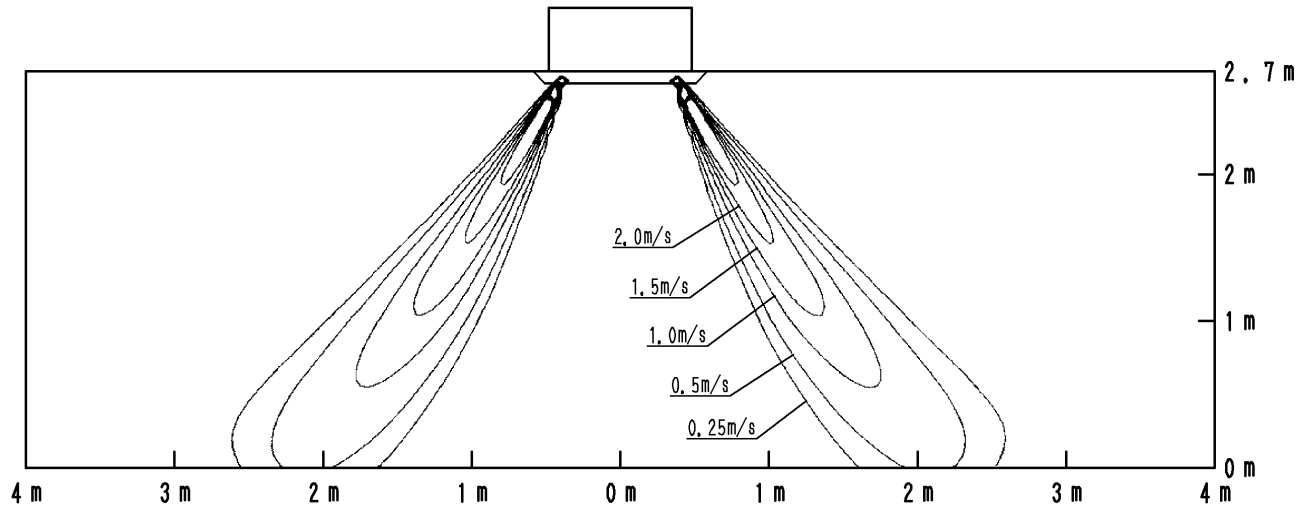
11 - 2 Air Flow Pattern - Heating

11

FCAHG71F

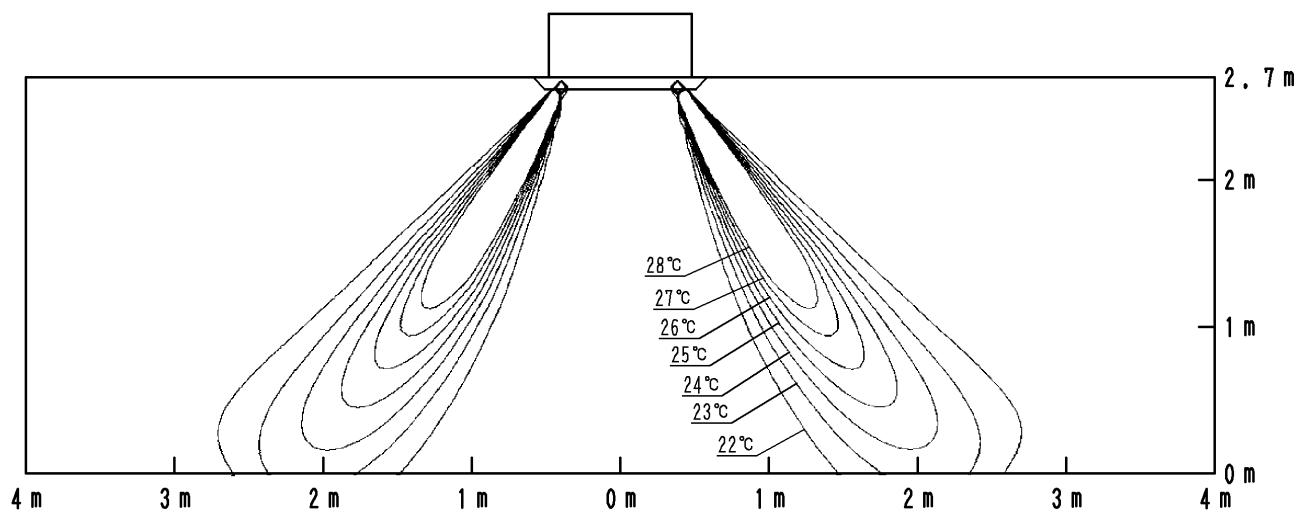
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077049

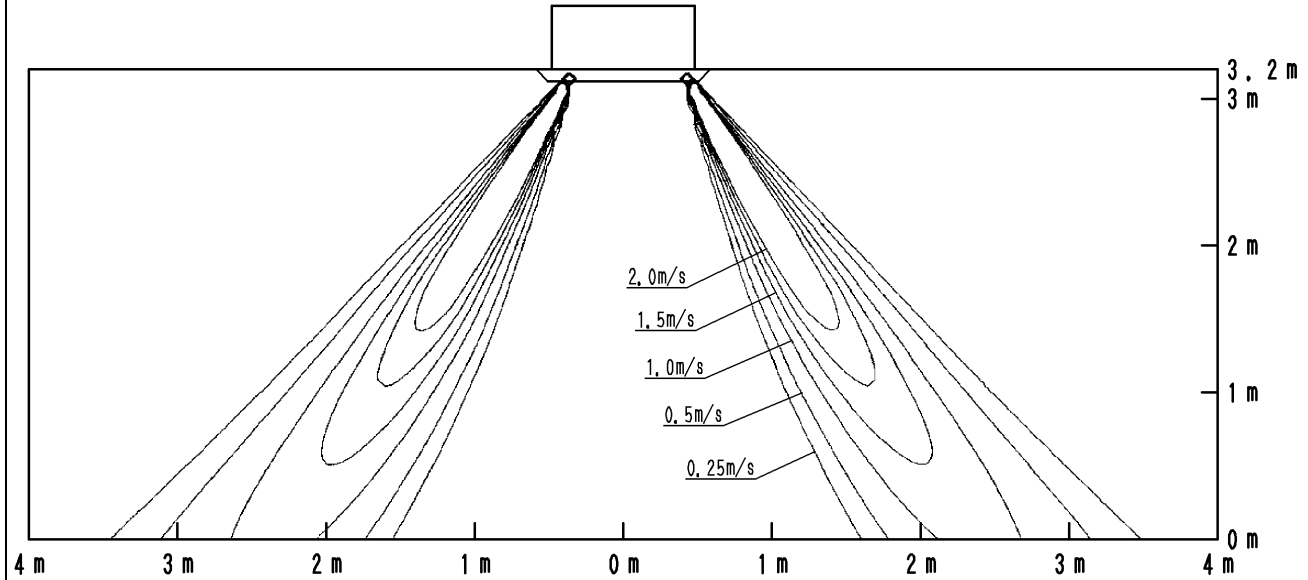
11 Air flow patterns

11 - 2 Air Flow Pattern - Heating

FCAHG100F

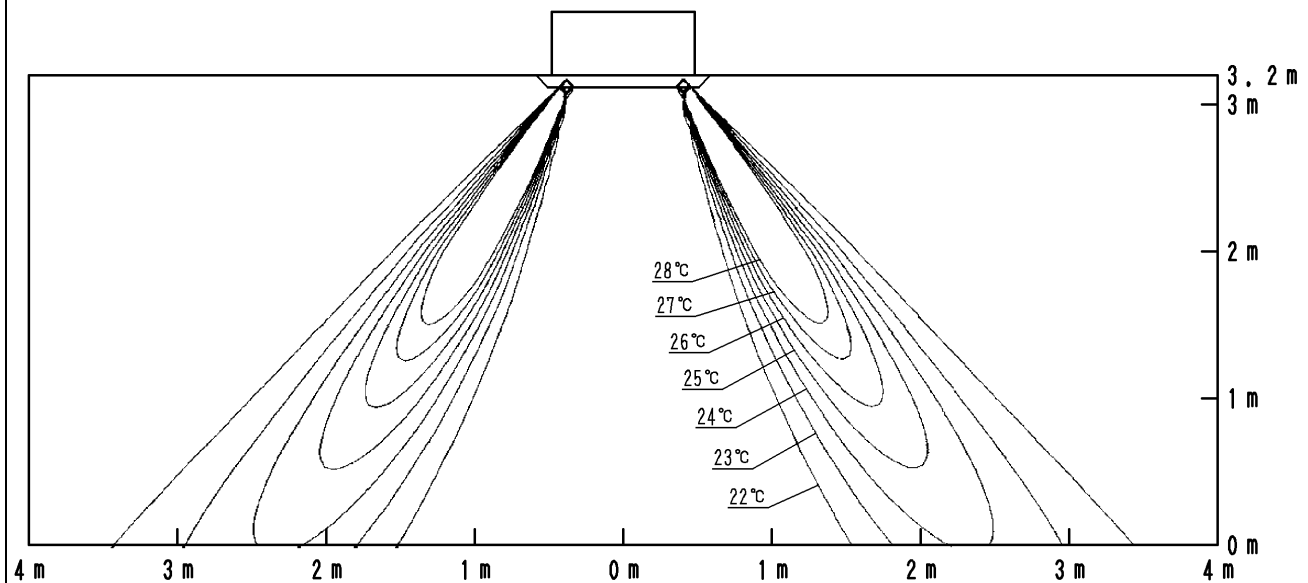
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077050

11 Air flow patterns

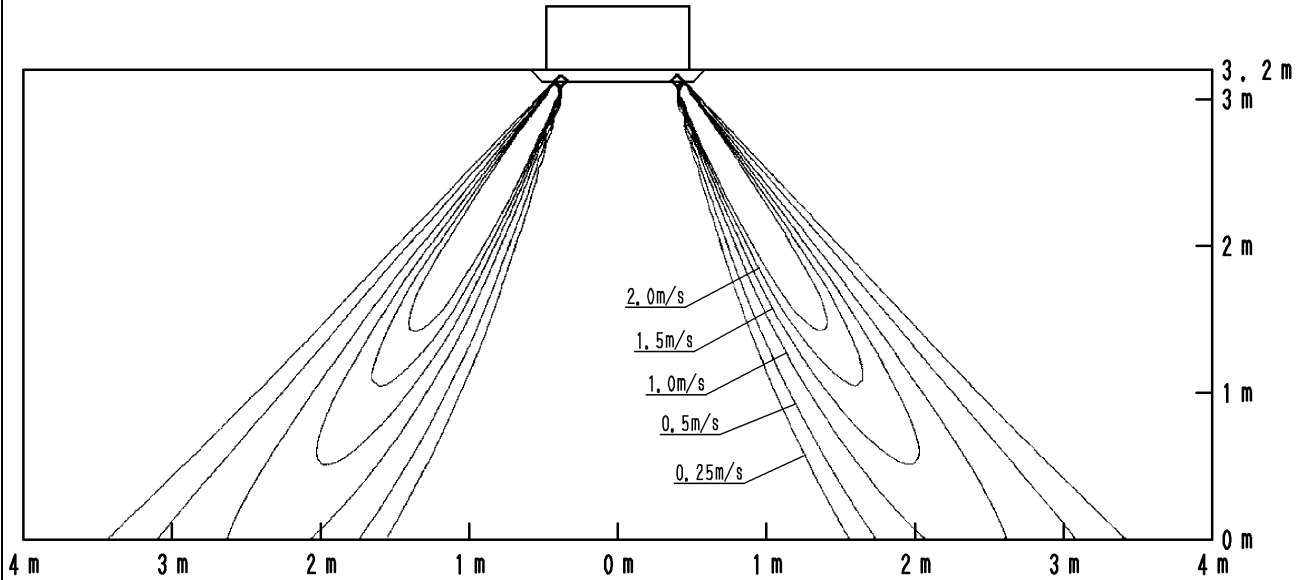
11 - 2 Air Flow Pattern - Heating

11

FCAHG125F

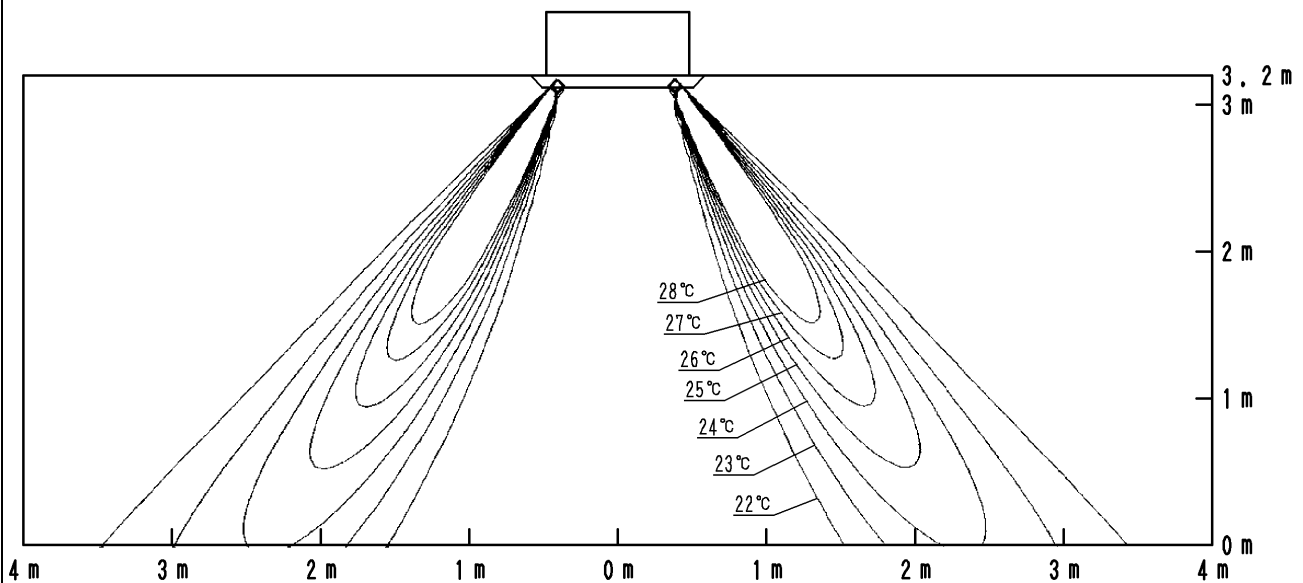
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D077051

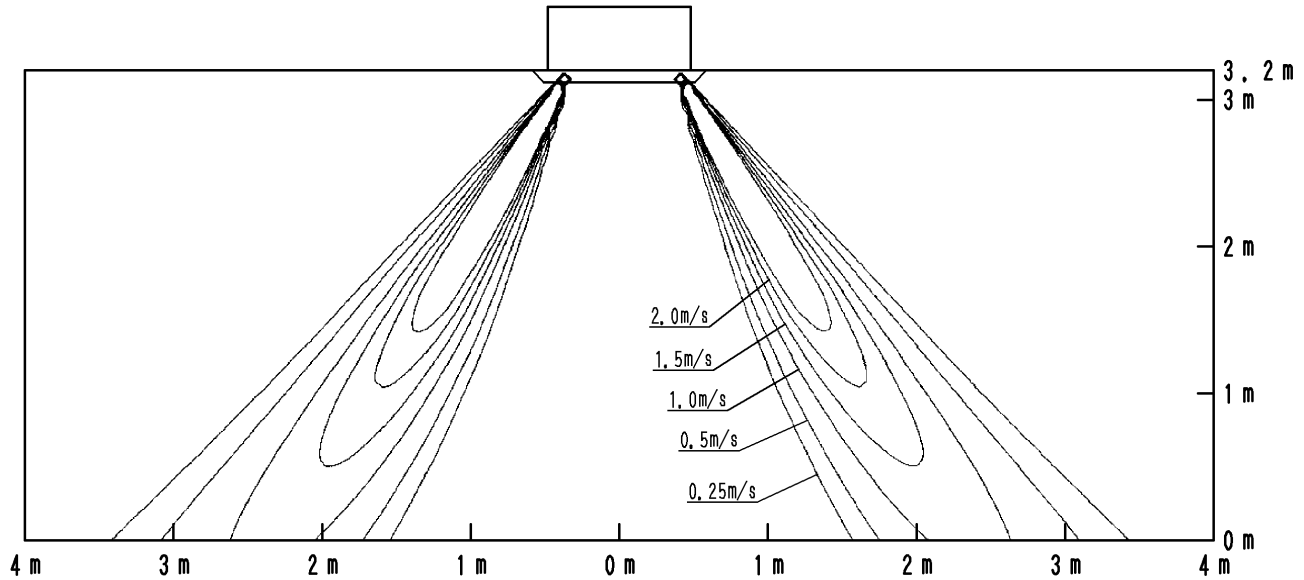
11 Air flow patterns

11 - 2 Air Flow Pattern - Heating

FCAHG140F

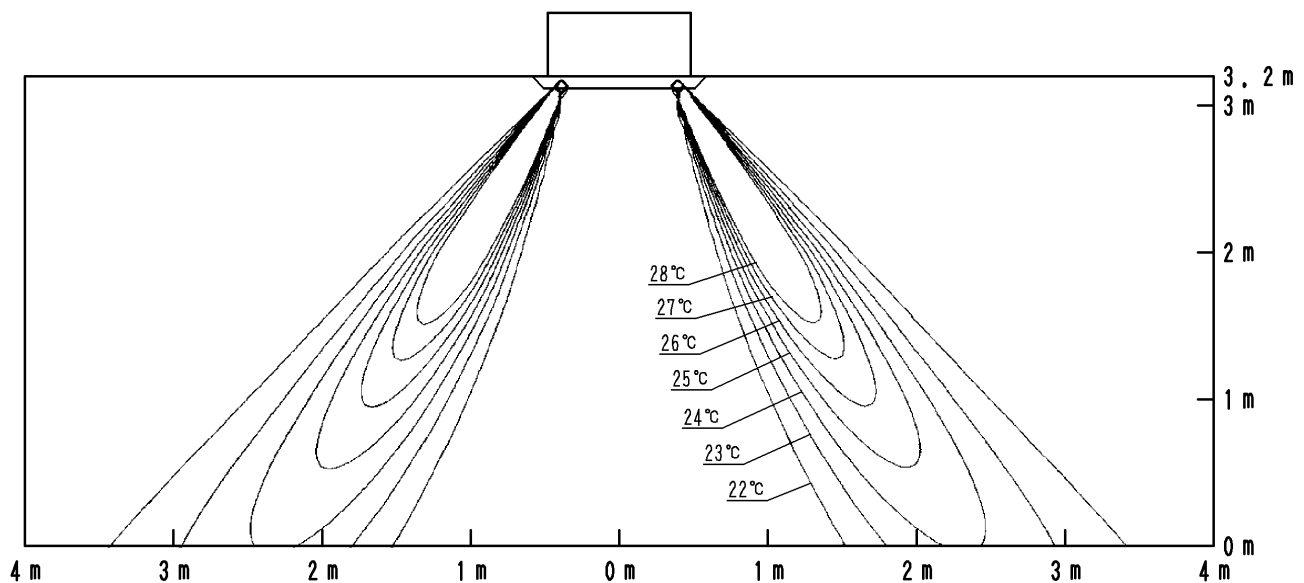
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

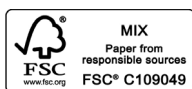
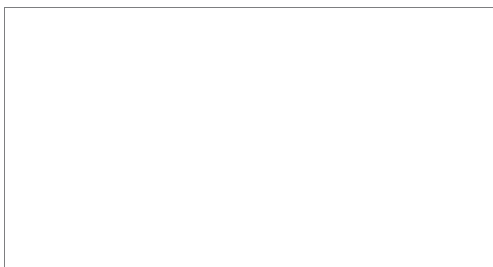
All round air discharge, air flow direction: horizontal



4D077052A



Daikin Europe N.V. Naamloze Vennootschap - Zandvoordestraat 300, B-8400 Oostende - Belgium - www.daikin.eu - BE 0412 120 336 - RPR Oostende



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