

4-way blow ceiling
suspended unit
Air Conditioning
Technical Data
FXUA-A



FXUA50AVEB
FXUA71AVEB
FXUA100AVEB

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FXUA-A

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1 Features

1 - 1 FXUA-A

- › Optimised design for R-32 refrigerant
- › Even rooms with ceilings up to 3.5m can be heated up or cooled down very easily without capacity loss
- › Can easily be installed in both new and refurbishment projects
- › Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- › Stylish unit blends easily with any interior. The flaps close entirely when the unit is not operating.
- › Optimum comfort guaranteed with automatic air flow adjustment to the required load
- › 5 different discharge angles between 0 and 60° can be programmed via the remote control
- › Standard drain pump with 720mm lift increases flexibility and installation speed



Onecta app
(optional)
(optional)



Home leave
operation



Fan only



Draught
prevention



Auto cooling-
heating
changeover



Individual flap
control



Vertical auto
swing



Fan speed
steps
(3 steps +
auto)



Dry
programme



Air filter
(pre filter)



Weekly timer
(optional)



Infrared
remote control
(optional
- must be
combined
with Madoka
wired remote
controller)



Wired remote
control



Centralised
control
(optional)



Auto-restart



Self diagnosis



Drain pump
kit

2 Specifications

1 - 1 FXUA-A

Technical specifications				FXUA50A	FXUA71A	FXUA100A
Cooling capacity	Sensible capacity	At high fan speed	kW	3.8	5.5	8.1
		Nom.	kW	5.6	8.0	11.2
	Sensible capacity	At medium fan speed	kW	3.2	4.6	6.3
Heating capacity	Nom.		kW	6.3	9.0	12.5
Cooling capacity	Sensible capacity	At low fan speed	kW	2.7	3.5	4.2
		At high fan speed	kW	1.8	2.5	3.1
		At medium fan speed	kW	1.5	2.0	2.4
	Latent capacity	At low fan speed	kW	1.3	1.6	
		At high fan speed	kW	5.6	8.0	11.2
		At medium fan speed	kW	4.7	6.6	8.7
	Total capacity	At low fan speed	kW	4.0	5.1	5.8
		At high fan speed	kW	6.3	9.0	12.5
Heating capacity	Total capacity	At medium fan speed	kW	5.1	7.2	9.3
		At low fan speed	kW	4.1	5.4	6.0
Power input - 50Hz	Cooling	At high fan speed	kW	0.029	0.055	0.117
		At medium fan speed	kW	0.021	0.037	0.073
		At low fan speed	kW	0.017	0.025	0.042
	Heating	At high fan speed	kW	0.029	0.055	0.117
		At medium fan speed	kW	0.021	0.037	0.073
		At low fan speed	kW	0.017	0.025	0.042
Power input - 60Hz	Cooling	At high fan speed	kW	0.029	0.055	0.117
	Heating	At high fan speed	kW	0.029	0.055	0.117
Dimensions	Unit	Height	mm		198	
		Width	mm		950	
		Depth	mm		950	
	Packed unit	Height	mm		295	
		Width	mm		1,026	
		Depth	mm		1,016	
Weight	Unit		kg	27		28
	Packed unit		kg	36		37
Casing	Colour				Fresh White	
	Material				Resin	
Heat exchanger	Inside length		mm		2,413	
	Rows	Quantity			3	
	Fin pitch		mm		1.20	
	Passes	Quantity			10	
Heat exchanger	Face area		m ²		0.330	
	Stages	Quantity			10	
	Tube type				Ø5 HI-XA	
	Fin	Type			Multi slit fin	
Fan	Type				Turbo fan	
	Quantity				1	
	Air flow rate - 50Hz	Cooling	At high fan speed	m ³ /min	17.0	31.0
			At medium fan speed	m ³ /min	14.5	25.5
			At low fan speed	m ³ /min	13.0	21.0
		Heating	At high fan speed	m ³ /min	17.0	31.0
			At medium fan speed	m ³ /min	14.5	25.5
			At low fan speed	m ³ /min	13.0	21.0
	Air flow rate - 60Hz	Cooling	At high fan speed	cfm	600	1,095
			At medium fan speed	cfm	512	901
			At low fan speed	cfm	459	742
		Heating	At high fan speed	cfm	600	1,095
			At medium fan speed	cfm	512	901
			At low fan speed	cfm	459	742
Sound power level	Cooling	At high fan speed	dBA	55.0	58.0	65.0
		At medium fan speed	dBA	53.0	56.0	62.0
		At low fan speed	dBA	51.0	54.0	58.0
	Heating	At high fan speed	dBA	55.0	58.0	65.0
		At medium fan speed	dBA	53.0	56.0	62.0
		At low fan speed	dBA	51.0	54.0	58.0
Sound pressure level	Cooling	At high fan speed	dBA	37.0	40.0	47.0
		At medium fan speed	dBA	35.0	38.0	44.0
		At low fan speed	dBA	33.0	36.0	40.0
	Heating	At high fan speed	dBA	37.0	40.0	47.0
		At medium fan speed	dBA	35.0	38.0	44.0
		At low fan speed	dBA	33.0	36.0	40.0

2 Specifications

1 - 1 FXUA-A

2

Technical specifications				FXUA50A	FXUA71A	FXUA100A
Fan motor	Quantity			1		
	Model			ARW5208DK		
	Speed	Steps		3		
	Output	Max	W	56		106
Refrigerant	Type			R-32		
	GWP			675		
Piping connections	Liquid	Type		Flare connection		
Piping connections	Liquid	OD	mm	6.4		9.5
	Gas	Type		Flare connection		
		OD	mm	12.7		15.9
	Drain			VP20		
	Heat insulation			Foamed Polyethylene		
Air filter	Type			Resin net		
Safety devices	Item	01		PC board fuse		
		02		Fan motor overcurrent protector		
Control systems	Infrared remote control			BRC7CB58 / BRC7CB59		
	Wired remote control			BRC1H52W/S/K		

Standard accessories: Thermal insulation tube; Quantity: 3;

Standard accessories: Sealing material; Quantity: 4;

Standard accessories: Wire clamp material; Quantity: 10;

Standard accessories: Drain hose; Quantity: 1;

Standard accessories: Hose band; Quantity: 1;

Standard accessories: Drain joint; Quantity: 1;

Standard accessories: Washer fixing plate; Quantity: 1;

Standard accessories: Extension auxiliary pipe; Quantity: 1;

Standard accessories: Non woven fabric; Quantity: 1;

Standard accessories: Screws; Quantity: 5;

Standard accessories: Washer; Quantity: 8;

Electrical specifications				FXUA50A	FXUA71A	FXUA100A
Power supply	Phase			1~		
	Frequency	Hz		50/60		
	Voltage	V		220-240/220		
Current - 50Hz	Minimum circuit amps (MCA)	A		0.5	0.6	1.1
	Maximum fuse amps (MFA)	A			6	
	Full load amps (FLA) Total	A		0.4	0.5	1.0
Current - 60Hz	Minimum circuit amps (MCA)	A		0.5	0.6	1.1
	Maximum fuse amps (MFA)	A			6	
	Full load amps (FLA) Total	A		0.4	0.5	1.0

1. Nominal cooling capacities are based on: indoor temperature: 27°CDB, 19°CWB, outdoor temperature: 35°CDB, equivalent refrigerant piping: 5m, level difference: 0m. |

2. Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. |

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

4. Instead of a fuse, use a circuit breaker |

5. Select wire size based on the value of MCA |

6. Contains fluorinated greenhouse gases

3 Safety device settings

3 - 1 Safety Device Settings

FXUA-A

Safety devices		FXUA50AVEB	FXUA71AVEB	FXUA100AVEB
PCB fuse		250V, 3.15A	250V, 3.15A	250V, 3.15A
Fan motor thermal fuse	°C			
Fan motor thermal protector	°C			

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4 Options

4 - 1 Options

FXUA-A

Option kit		Product name	FXUA50/71/100AVEB
Air discharge outlet sealing member		KDBHP49B140	✓
Decoration panel option		KDBTP49B140	✓
Long-life replacement filter		KAFP551K160	✓
Wired remote control		BRC1H52W ①	✓
		BRC1H52S ①	✓
		BRC1H52K ①	✓
Wireless remote control	Heat pump	BRC7CB58 ②	✓
	Cooling only	BRC7CB59 ②	✓
Sensor kit		BRE49B2F	✓
Relay PCB		ERP01A51 ③	✓
Wiring adaptor for electrical appendices		EKR1C14 ③	✓
		KRP4AA53 ③	✓
Remote sensor		KRCS01-6B, KRCS01-8B	✓
Installation box for adaptor PCB		KRP1BA97	✓
Central remote control		DCS302C51 ②	✓
		DCS302CA51, DCS302CA61 ②	✓
Unified ON/OFF controller		DCS301B51 ② ⑦	✓
		DCS301BA51, DCS301BA61 ② ⑦	✓
Electrical box with earth terminal (-3- blocks)		KJB311AA	✓
Electrical box with earth terminal (-2- blocks)		KJB212AA	✓
Schedule timer		DST301BA51 ②	✓
Intelligent Tablet Controller		DCC601A51 ②	✓
iTouch Manager		DCM601A51 ②	✓
iTouch Controller		DCS601C51 ②	✓
Digital input adaptor		BRP7A53 ② ③	✓
Noise filter		KEK26-1A	✓
WLAN adaptor for smartphones		BRP069C51 ②	✓
External wireless temperature sensor		EKEWTSC-1 ⑥	✓
		K.RSS ④ ⑤	✓

Notes

- ① Mandatory option
- ② Only possible in combination with remote control -BRC1H52-.
- ③ Requires installation box for adaptor PCB -KRP1BA97-.
- ④ -K.RSS- is not an official option. Sales for this option are an SBU responsibility.
- ⑤ This option needs to be ordered together with -EKEWTSC-1-.
- ⑥ -EKEWTSC-1- is a wire harness for the connection of option -K.RSS-.
- ⑦ To mount option -DCS301B/BA51, DCS301BA61-, option -KEK26-1A- is required.

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5 Capacity tables

5 - 1 Cooling/Heating Capacity Tables

FXUA-A

Cooling

		Indoor air temperature													
Unit size	Fan speed	14,0 [°C WB]		16,0 [°C WB]		18,0 [°C WB]		19,0 [°C WB]		20,0 [°C WB]		22,0 [°C WB]		24,0 [°C WB]	
		20,0 [°C DB]		23,0 [°C DB]		26,0 [°C DB]		27,0 [°C DB]		28,0 [°C DB]		30,0 [°C DB]		32,0 [°C DB]	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
50	H	3,1	2,6	4,1	3,1	5,1	3,7	5,6	3,8	6,1	4,0	7,3	4,2	8,4	4,5
	M	Correction factor -0.84 × H·													
	L	Correction factor -0.71 × H·													
71	H	4,6	3,8	5,9	4,6	7,3	5,3	8,0	5,5	8,7	5,7	10,3	6,1	11,9	6,5
	M	Correction factor -0.83 × H·													
	L	Correction factor -0.64 × H·													
100	H	6,6	5,7	8,4	6,8	10,2	7,9	11,2	8,1	12,2	8,4	14,3	8,9	16,4	9,3
	M	Correction factor -0.78 × H·													
	L	Correction factor -0.52 × H·													

Notes

1) TC: Total capacity [kW]

SHC: Sensible heat capacity [kW]

H: High

M: Medium

L: Low

2) Outdoor temperature -35°C DB

Heating

Unit size	Fan speed	Indoor air temperature					
		16,0 [°C DB]		18,0 [°C DB]		20,0 [°C DB]	
		21,0 [°C DB]		22,0 [°C DB]		24,0 [°C DB]	
		TC	TC	TC	TC	TC	TC
50	H	7,4	6,8	6,3	6,0	5,8	5,3
	M	Correction factor -0.81 × H·					
	L	Correction factor -0.65 × H·					
71	H	10,5	9,8	9,0	8,6	8,3	7,5
	M	Correction factor -0.80 × H·					
	L	Correction factor -0.6 × H·					
100	H	14,6	13,5	12,5	12,0	11,5	10,5
	M	Correction factor -0.74 × H·					
	L	Correction factor -0.48 × H·					

Notes

1) TC: Total capacity [kW]

H: High

M: Medium

L: Low

2) Outdoor temperature -7°C DB / -6°C WB

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6 Dimensional drawings

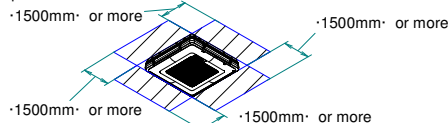
6 - 1 Dimensional Drawings

FXUA-A

Required space

When closing the air outlet, the required space is ·30·mm or more.
See note ·3·.

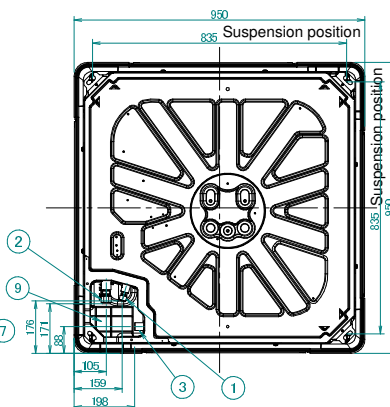
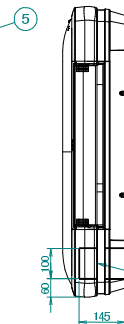
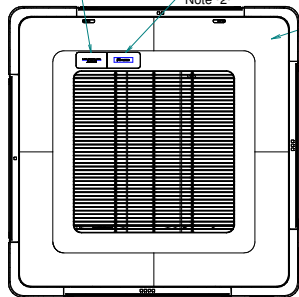
Model	AA	AB
FXUA50	ø6.4	ø12.7
FXUA71	ø6.4	ø12.7
FXUA100	ø9.5	ø15.9



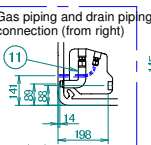
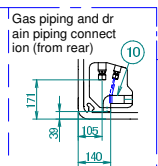
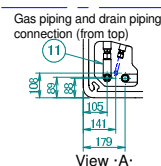
Brand name label

Brand name label

Note ·2·

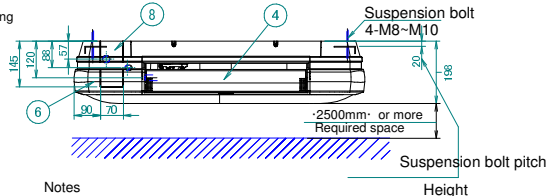


- ① Liquid pipe connection ·AA· flare
- ② Gas pipe connection ·AB· flare
- ③ VP20Drain socket
- ④ Air discharge outlet
- ⑤ Air suction grille
- ⑥ Corner decoration cover
- ⑦ Piping connections/Wiring connection Right side
- ⑧ Piping connections/Wiring connection Rear side
- ⑨ Pipe cover (top)
- ⑩ Drain pipe connection (outside diameter ·26·)
- ⑪ L-type piping kit (upward direction)



View ·A·

The drain piping can be raised up to ·600·mm from the top surface of the unit.



Notes

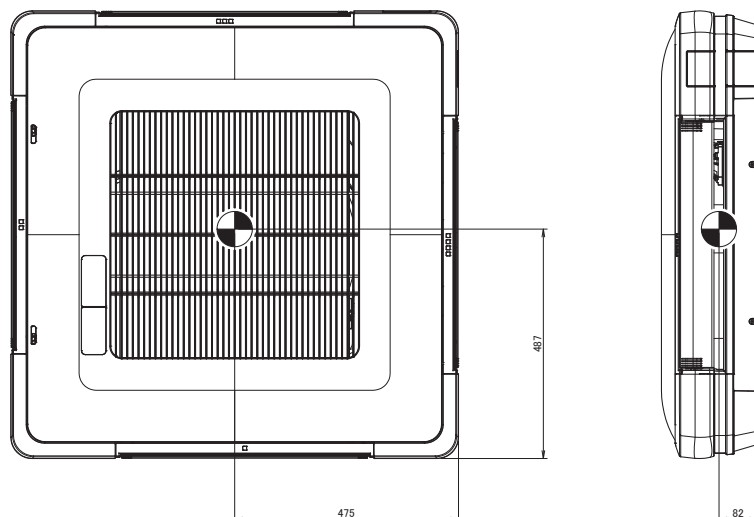
1. The unit nameplate is located on the control box cover.
2. When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.
3. When closing the discharge grille in case of ·2·-way blow or ·3·-way blow, there are limitations to the piping connection direction. See the installation manual.
4. Do not place any objects under the indoor unit. In case of high humidity (>80%), clogged drain outlets, or dirty air filters, condensate may drop out.

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7 Centre of gravity

7 - 1 Centre of Gravity

FXUA-A

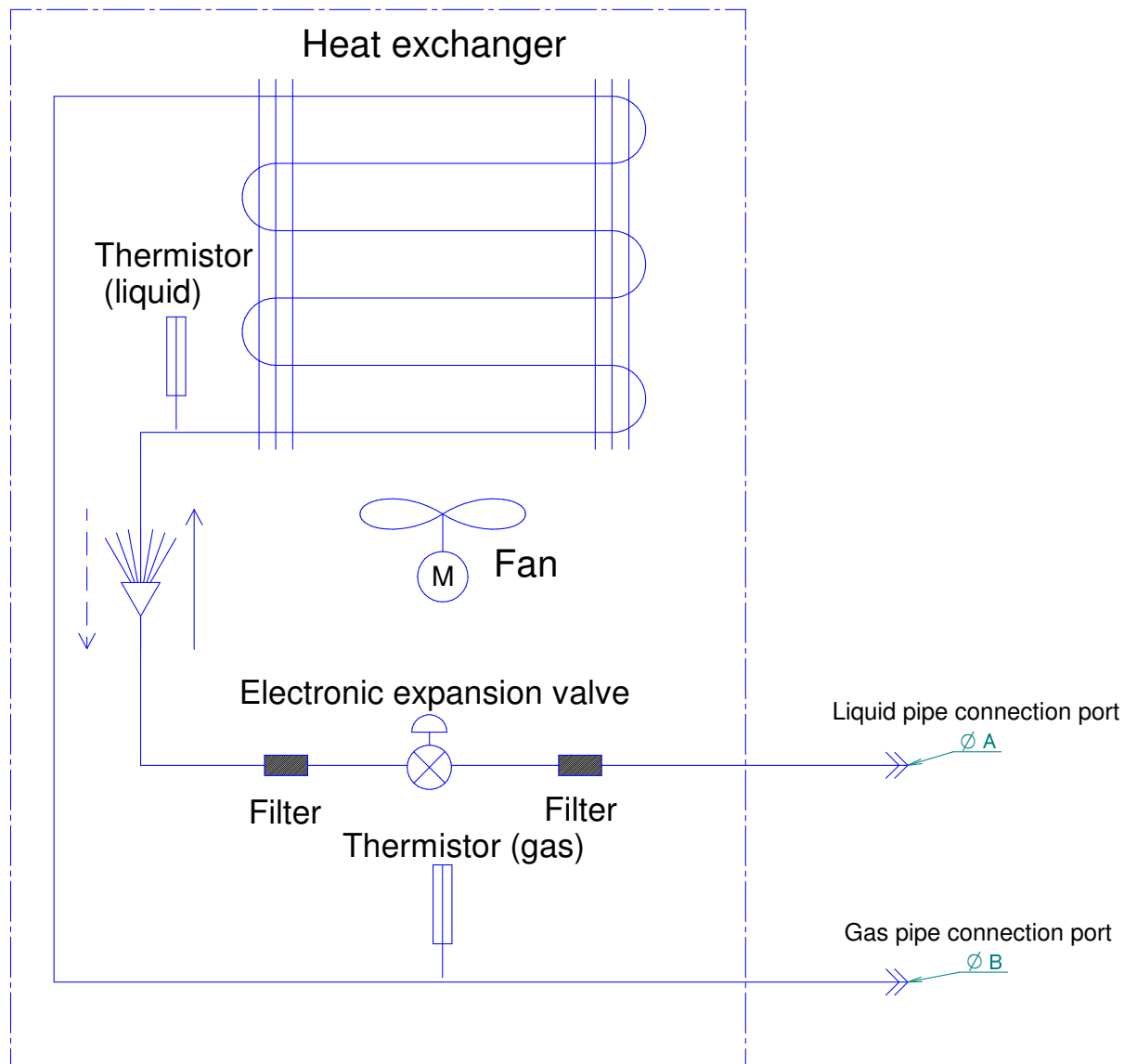


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8 Piping diagrams

8 - 1 Piping Diagrams

FXUA-A



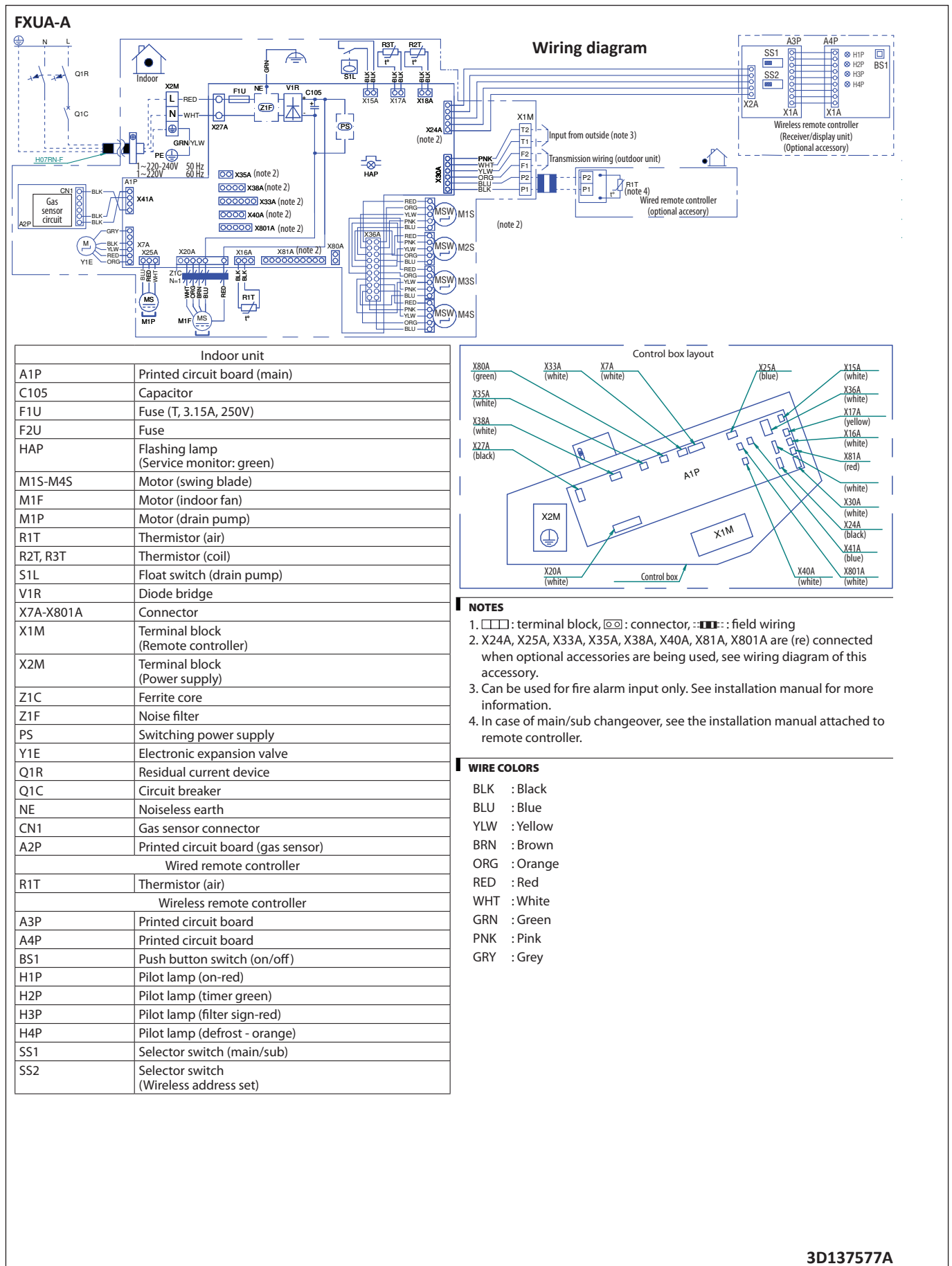
Model	A	B
FXUA50AVEB	6.35	12.7
FXUA71AVEB		
FXUA100AVEB	9.52	15.9

Refrigerant flow
Cooling ———→
Heating - - - ->

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9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

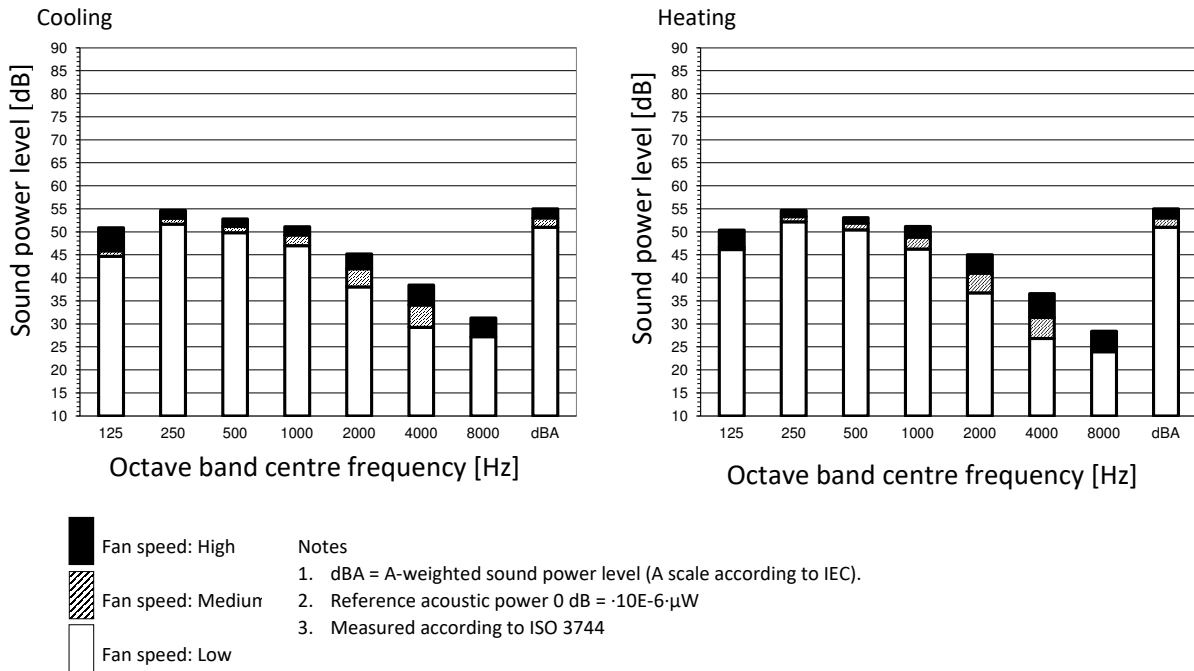


10 Sound data

10 - 1 Sound Power Spectrum

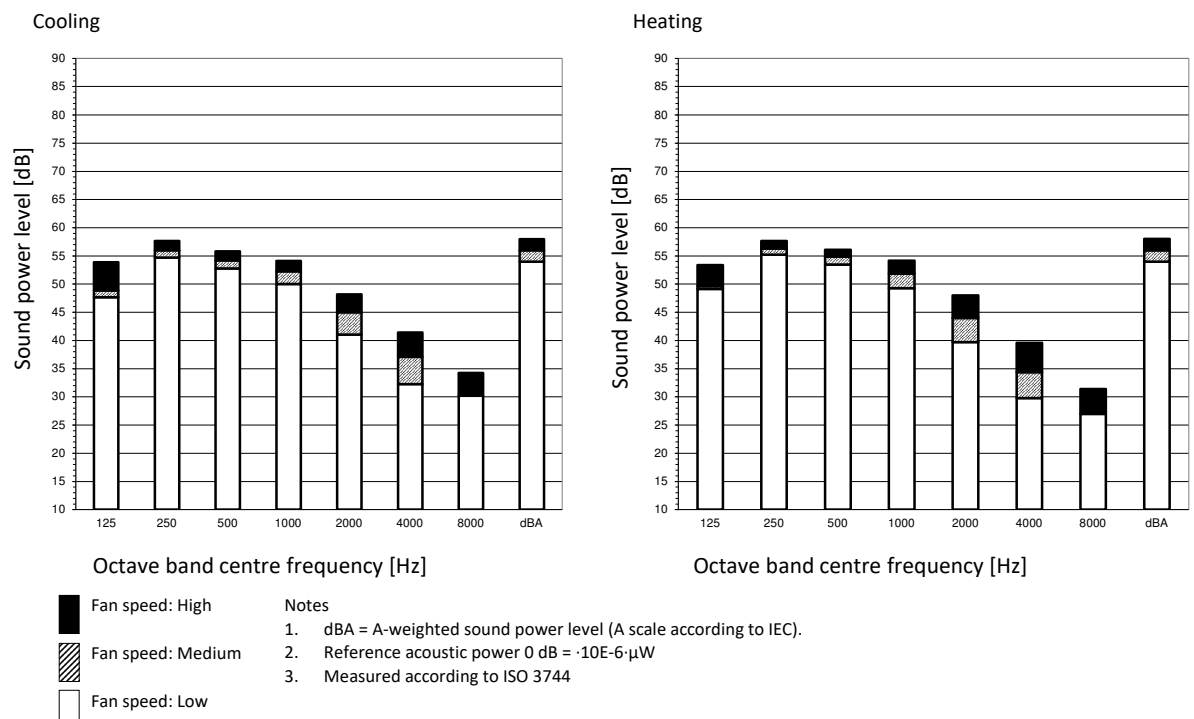
FXUA50A

10



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FXUA71A

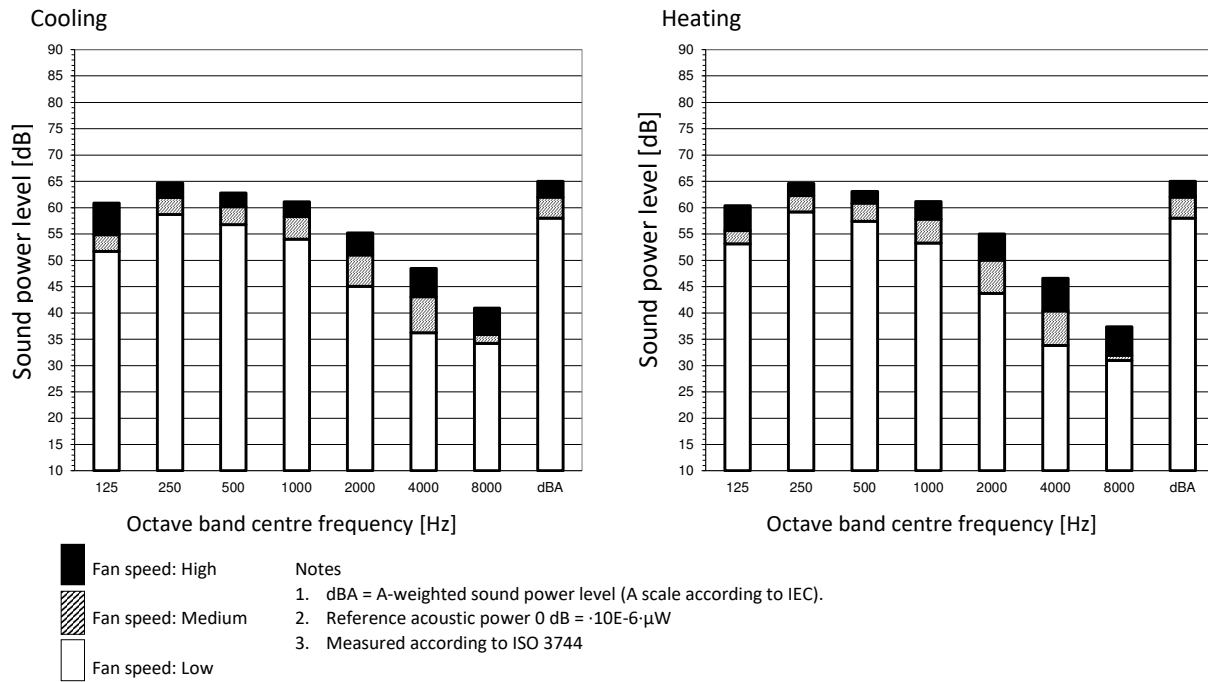


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10 Sound data

10 - 1 Sound Power Spectrum

FXUA100A

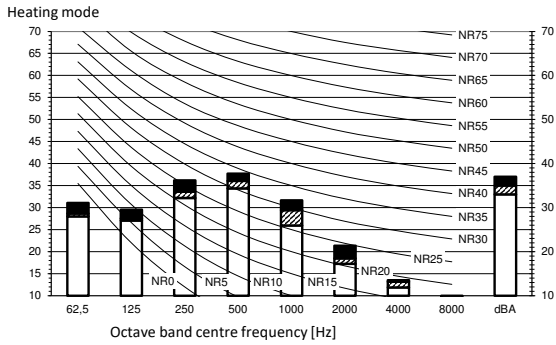
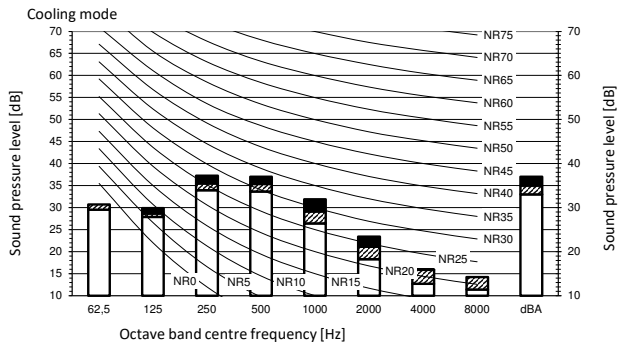


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10 Sound data

10 - 2 Sound Pressure Spectrum

FXUA50A

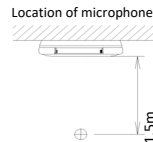


Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

- A Scale
- B Fan speed: High
- C Fan speed: Medium
- D Fan speed: Low

Cooling		Total dB	
A	B	C	D
dBa	37,0	35,0	33,0

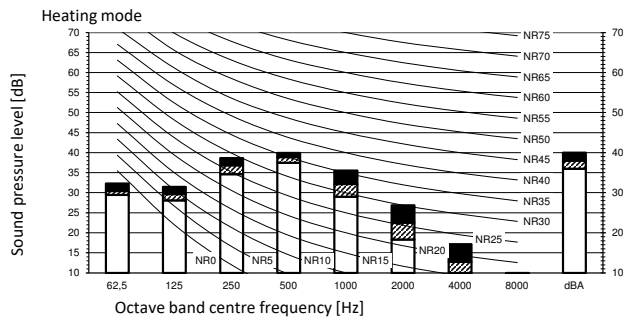
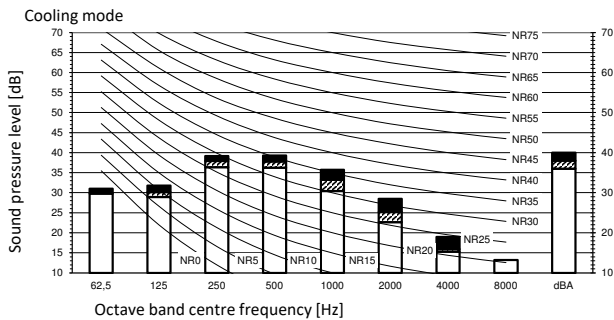
Heating		Total dB	
A	B	C	D
dBa	37,0	35,0	33,0



- Notes
- 1) Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
 - 2) Background noise already taken into account.
 - 3) Operating noise varies depending on operation and ambient conditions.
 - 4) The operation noise measuring method is in accordance with JISC9612.
 - 5) Measuring location: anechoic chamber

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FXUA71A

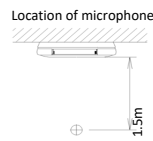


Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

- A Scale
- B Fan speed: High
- C Fan speed: Medium
- D Fan speed: Low

Cooling		Total dB	
A	B	C	D
dBa	40,0	38,0	36,0

Heating		Total dB	
A	B	C	D
dBa	40,0	38,0	36,0



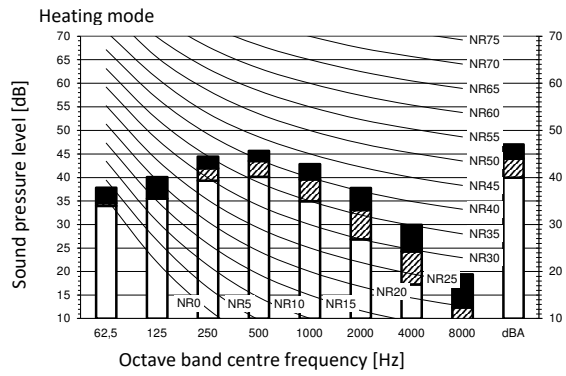
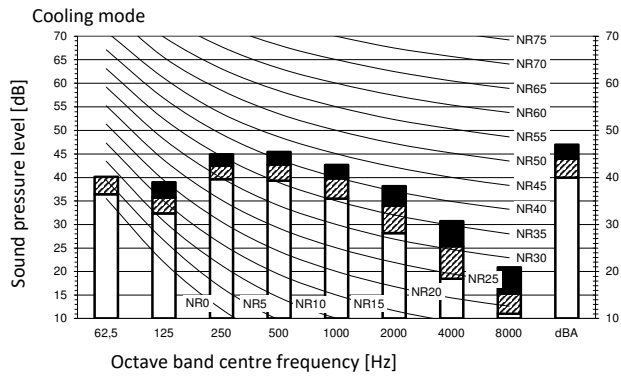
- Notes
- 1) Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
 - 2) Background noise already taken into account.
 - 3) Operating noise varies depending on operation and ambient conditions.
 - 4) The operation noise measuring method is in accordance with JISC9612.
 - 5) Measuring location: anechoic chamber

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10 Sound data

10 - 2 Sound Pressure Spectrum

FXUA100A

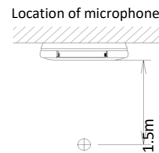


Legend

dBA = A-weighted sound pressure level (A scale according to IEC).

A Scale

- B** Fan speed: High
C Fan speed: Medium
D Fan speed: Low



Cooling	Total dB			
A	B	C	D	
dBA	47,0	44,0	40,0	

Heating	Total dB			
A	B	C	D	
dBA	47,0	44,0	40,0	

Notes

- 1) Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- 2) Background noise already taken into account.
- 3) Operating noise varies depending on operation and ambient conditions.
- 4) The operation noise measuring method is in accordance with JISC9612.
- 5) Measuring location: anechoic chamber

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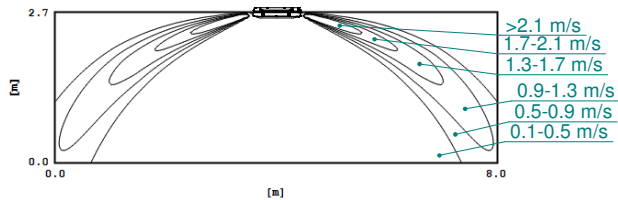
11 Air flow pattern

11 - 1 Air flow pattern - cooling and heating

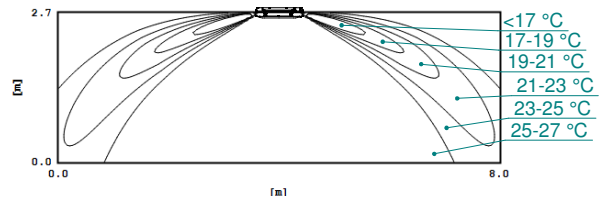
11

FXUA50A

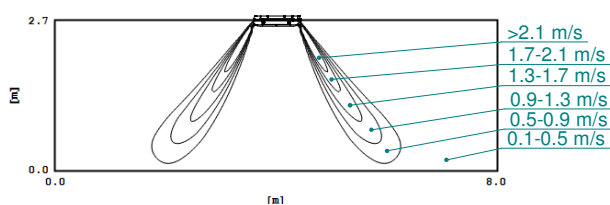
Air velocity distribution (cooling)
Air flow direction: horizontal



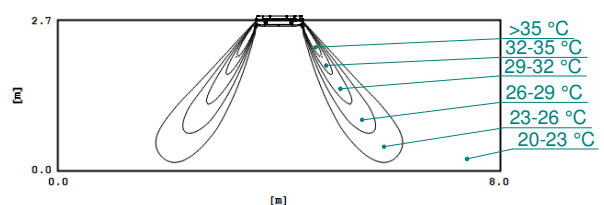
Air temperature distribution (cooling)
Air flow direction: horizontal



Air velocity distribution (heating)
Air flow direction: vertical



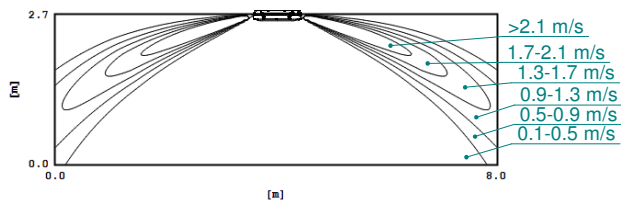
Air temperature distribution (heating)
Air flow direction: vertical



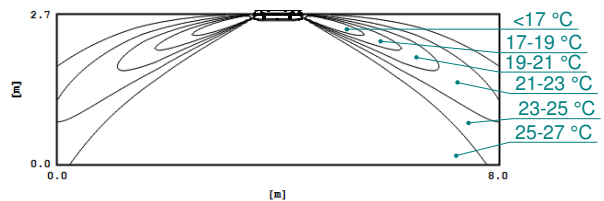
3D138854

FXUA71A

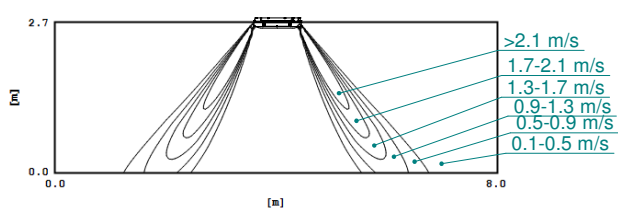
Air velocity distribution (cooling)
Air flow direction: horizontal



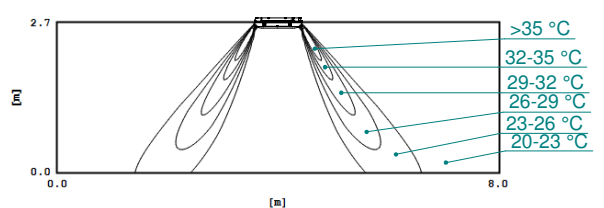
Air temperature distribution (cooling)
Air flow direction: horizontal



Air velocity distribution (heating)
Air flow direction: vertical



Air temperature distribution (heating)
Air flow direction: vertical



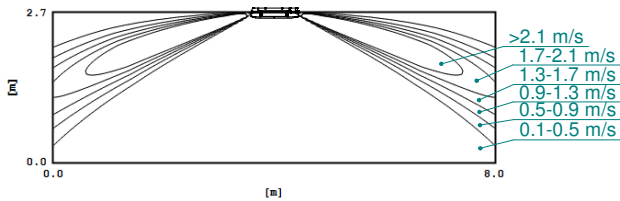
3D138852

11 Air flow pattern

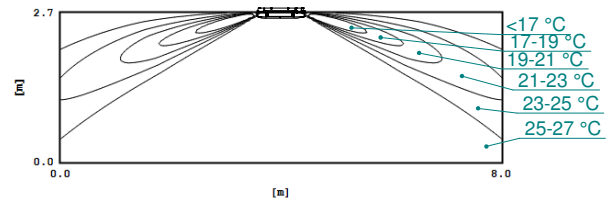
11 - 1 Air flow pattern - cooling and heating

FXUA100A

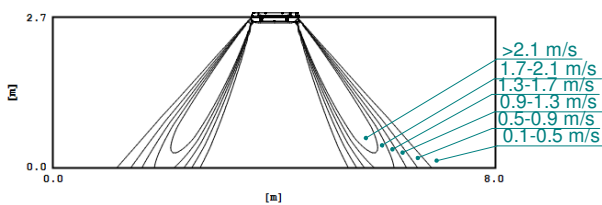
Air velocity distribution (cooling)
Air flow direction: horizontal



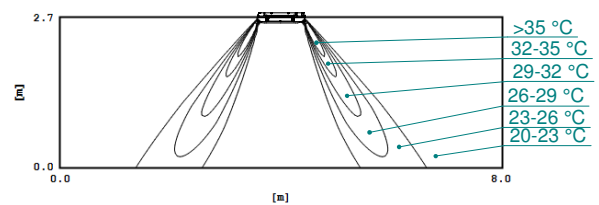
Air temperature distribution (cooling)
Air flow direction: horizontal



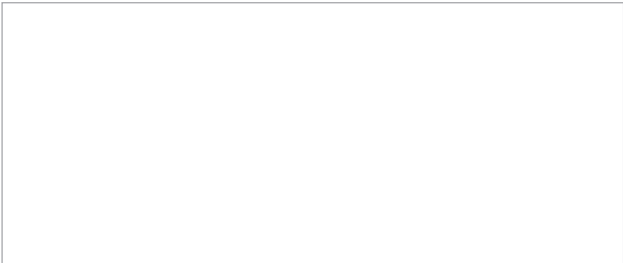
Air velocity distribution (heating)
Air flow direction: vertical



Air temperature distribution (heating)
Air flow direction: vertical



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