

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

Unique Daikin unit for high rooms with no false ceilings nor free floor space

1

- › 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 - 1 Specifications

2

2 Specifications

2 - 1 Specifications

Technical specifications				FXUA50A	FXUA71A	FXUA100A
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
Fan motor	Quantity		1			
	Model		ARW5208DK		EHDS14DDK	
	Speed	Steps	3			
	Output	Max	W	56	106	
Refrigerant	Type		R-32			
	GWP		675			
Piping connections	Liquid	Type	Flare connection			
		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			50/60		
	Voltage			220-240/220		
Current - 50Hz	Minimum circuit amps (MCA)			0.5	0.6	1.1
	Maximum fuse amps (MFA)			6		
	Full load amps (FLA) Total			0.4	0.5	1.0
Current - 60Hz	Minimum circuit amps (MCA)			0.5	0.6	1.1
	Maximum fuse amps (MFA)			6		
	Full load amps (FLA) Total			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	FXUA50/71/100A
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	✓
Optional output PCB		ERP01A51 ⑧	✓
PCB for multi-tenant indoor units		DTA114A61-9 ③ ⑦	✓
Wiring adaptor for electrical appendices		EKR1C14 ③	✓
Remote sensor		KRP4AA53 ③	✓
Remote sensor		KRC501-6B, KRCS01-8B	✓
Installation box for adaptor PCB		KRP1BA97	✓
Installation box for adaptor PCB		KRP1C97	✓
Central remote control		DCS302C51 ②	✓
Central remote control		DCS302CA61 ②	✓
Central remote control		DCS301B51 ②	✓
Unified ON/OFF controller		DCS301BA61 ②	✓
Electrical box with earth terminal (-3- blocks)		KJB311AA	✓
Electrical box with earth terminal (-2- blocks)		KJB212AA	✓
External adaptor for outdoor unit (installation on indoor unit)		DTA104A61 ③	✓
Intelligent Tablet Controller		DCC601A51 ②	✓
iTouch Manager		DCM601A51 ②	✓
iTouch Controller		DCS601C51 ②	✓
Digital input adaptor		BRP7A53 ② ③	✓
WLAN adaptor for smartphones		BRP069C51 ②	✓
External wireless temperature sensor		EKEWTSC-1 ⑥	✓
External wireless temperature sensor		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 ·DTA114A61-9· can only be used in combination with ·REMA5A7Y1B, REYA8/10/12/14/16/18/20A7Y1B·.
- ⑧ Requires installation box for adaptor PCB ·KRP1C97·.

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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

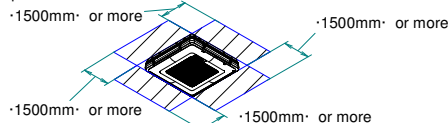
6 - 1 Dimensional Drawings

FXUA-A

Required space

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

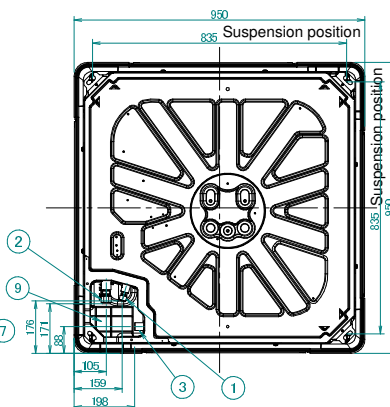
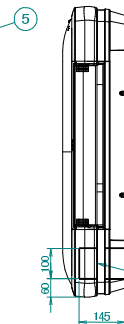
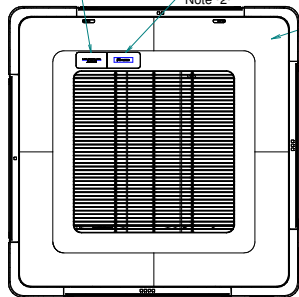
Model	AA	AB
FXUA50	ø6.4	ø12.7
FXUA71	ø6.4	ø12.7
FXUA100	ø9.5	ø15.9



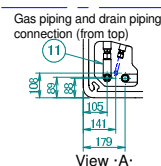
Brand name label

Brand name label

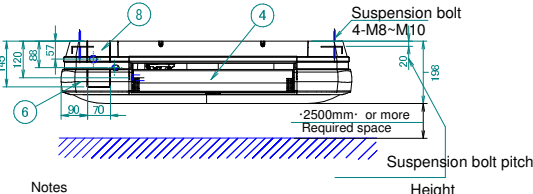
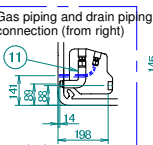
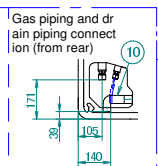
Note ·2·



- 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·



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.

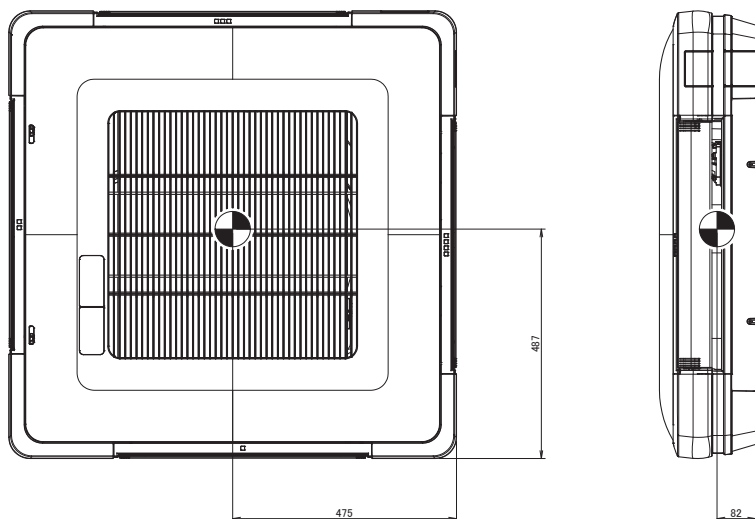
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The drain piping can be raised up to ·600·mm from the top surface of the unit.

7 Centre of gravity

7 - 1 Centre of Gravity

FXUA-A

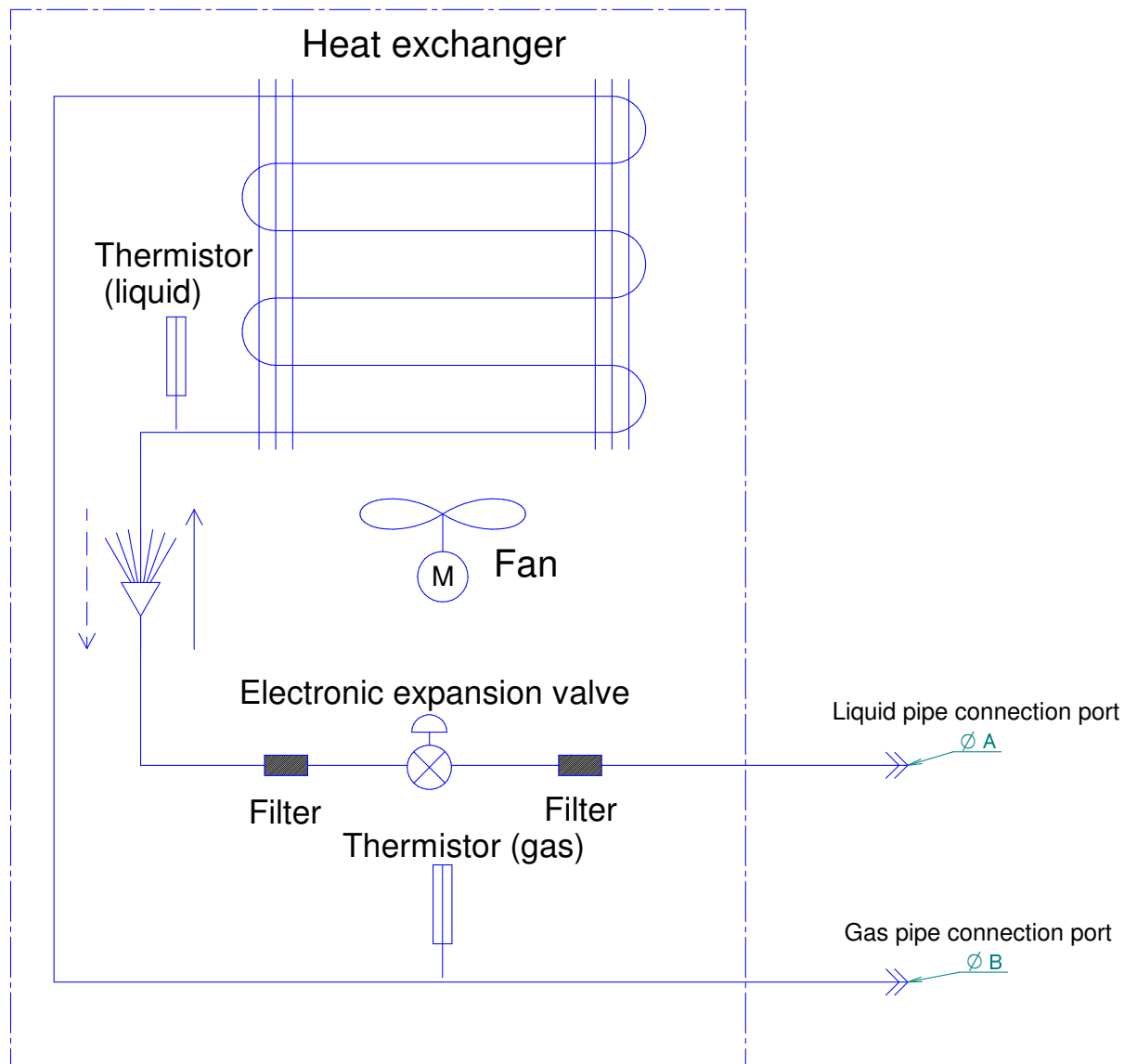


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8 Piping diagrams

8 - 1 Piping Diagrams

FXUA-A



Model	A	B
FXUA50AVEB	6.35	12.7
FXUA71AVEB		
FXUA100AVEB	9.52	15.9

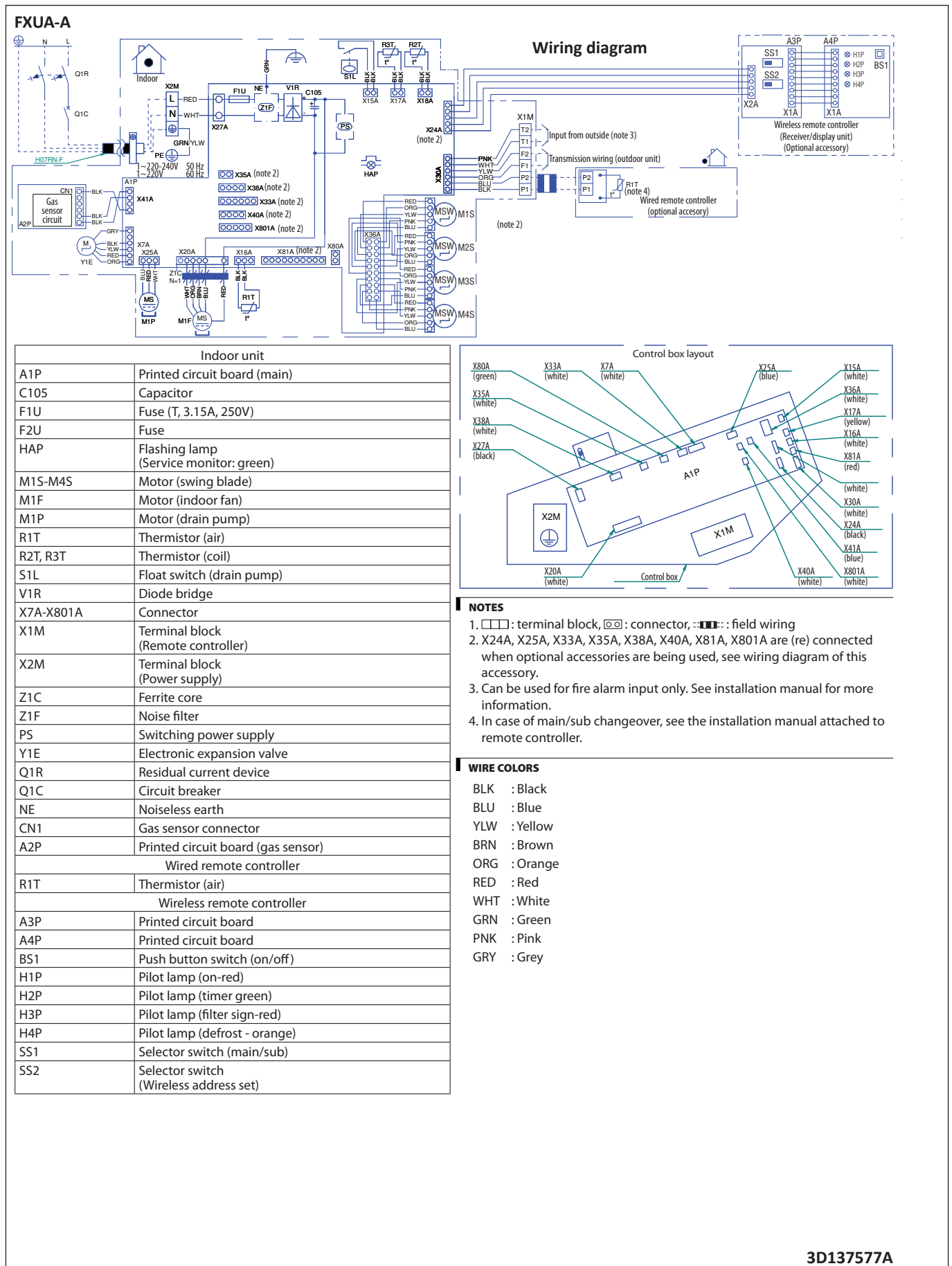
Refrigerant flow

Cooling ———→
Heating - - - ->

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9 Wiring diagrams

9 - 1 Wiring Diagrams - Single Phase

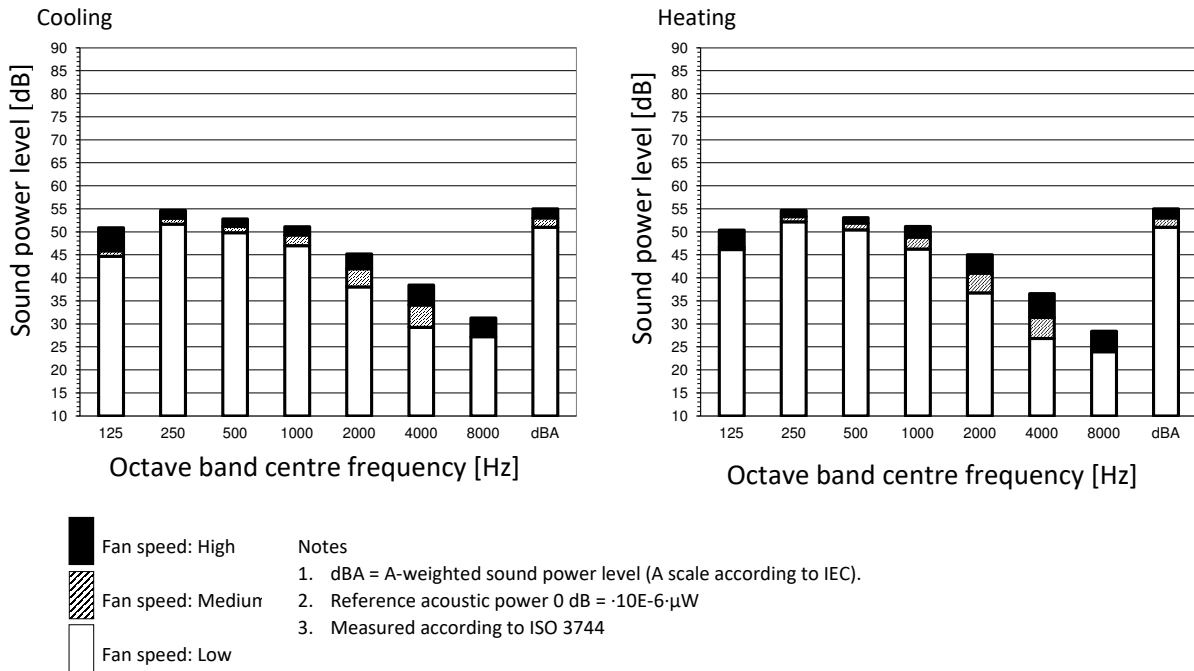


10 Sound data

10 - 1 Sound Power Spectrum

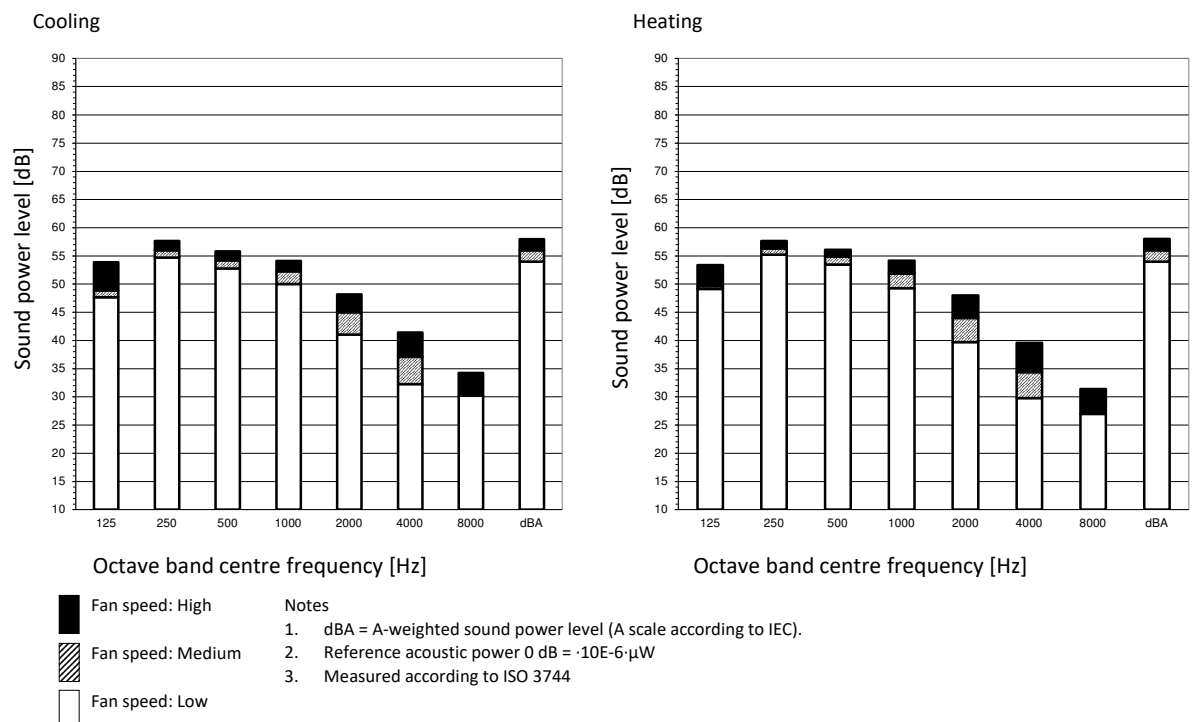
FXUA50A

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FXUA71A

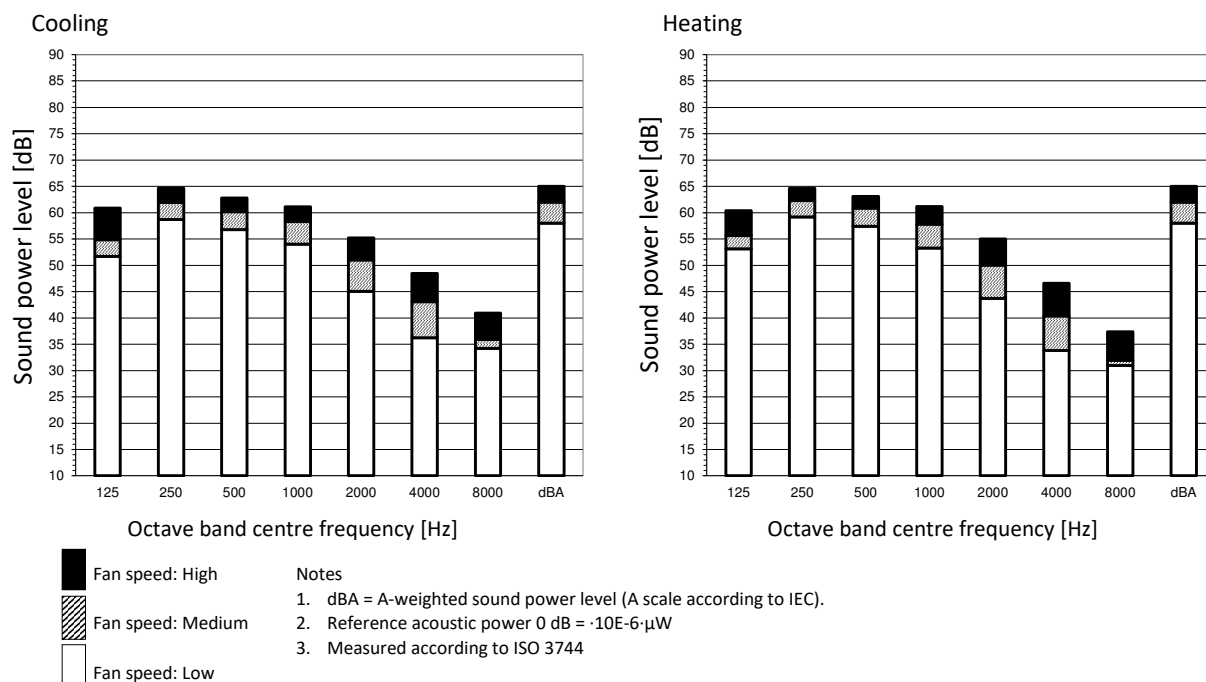


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10 Sound data

10 - 1 Sound Power Spectrum

FXUA100A

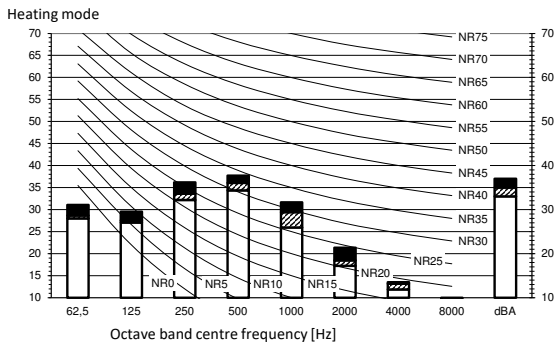
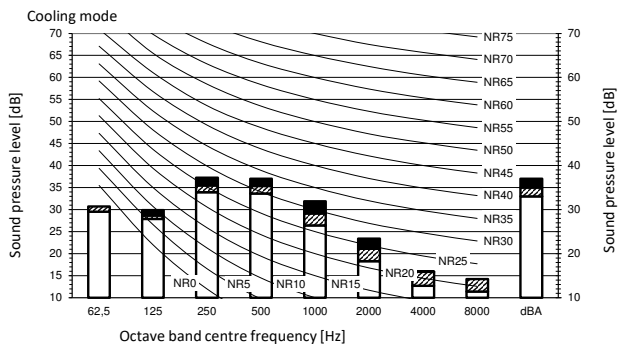


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10 Sound data

10 - 2 Sound Pressure Spectrum

FXUA50A

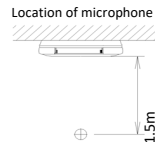


Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

- 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

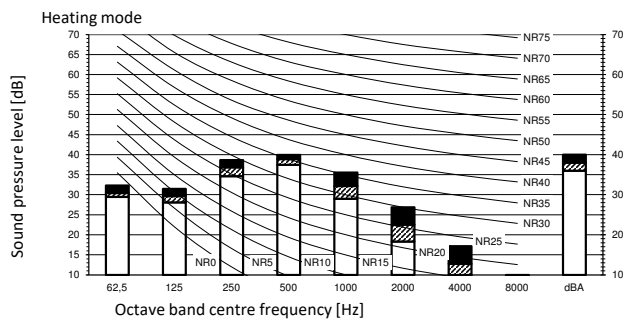
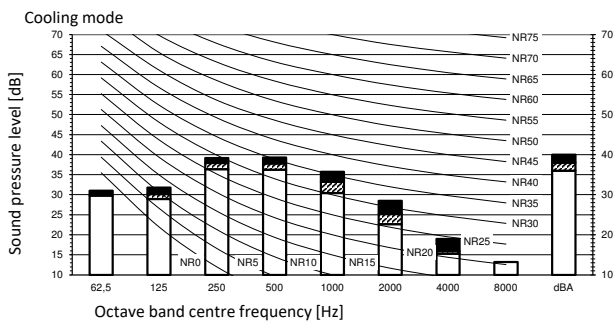
Heating		Total dB	
A	B	C	D
dBa	37,0	35,0	33,0



- 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

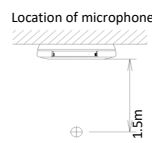


Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

- 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



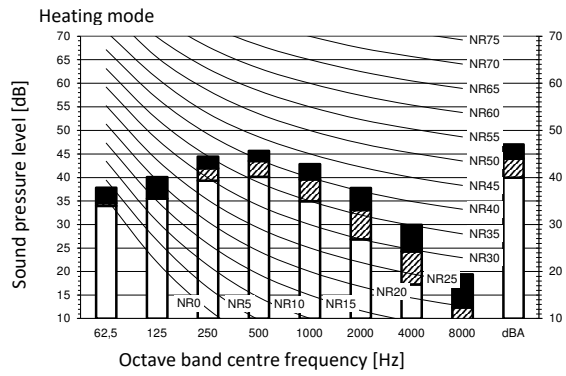
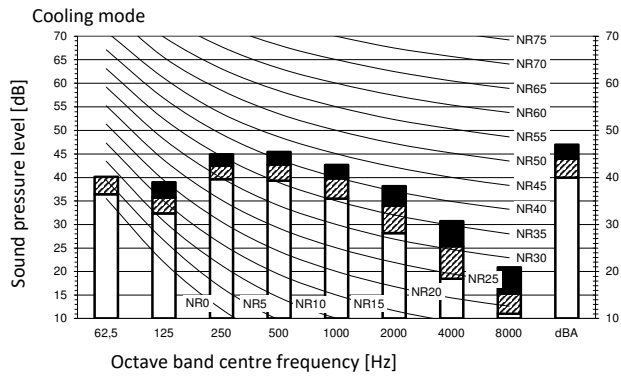
- Notes
- 1) Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
 - 2) Background noise already taken into account.
 - 3) Operating noise varies depending on operation and ambient conditions.
 - 4) The operation noise measuring method is in accordance with JISC9612.
 - 5) Measuring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

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10 Sound data

10 - 2 Sound Pressure Spectrum

FXUA100A

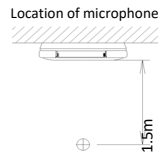


Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

- 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

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	



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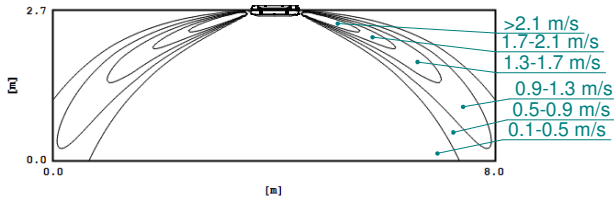
11 Air flow patterns

11 - 1 Air flow pattern - Cooling and Heating

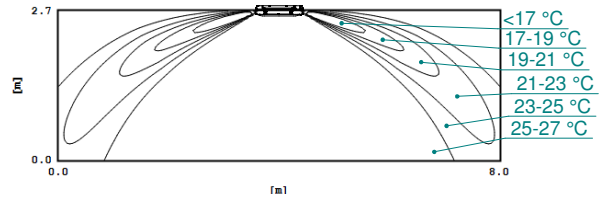
11

FXUA50A

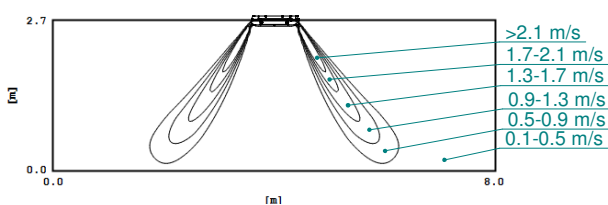
Air velocity distribution (cooling)
Air flow direction: horizontal



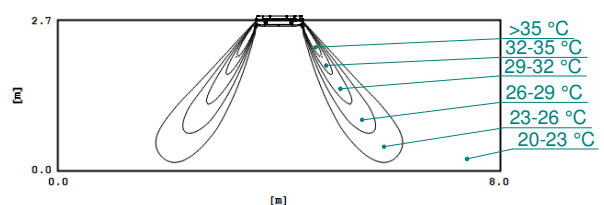
Air temperature distribution (cooling)
Air flow direction: horizontal



Air velocity distribution (heating)
Air flow direction: vertical



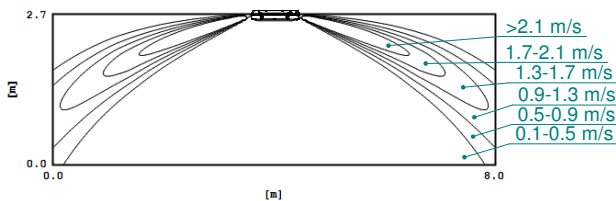
Air temperature distribution (heating)
Air flow direction: vertical



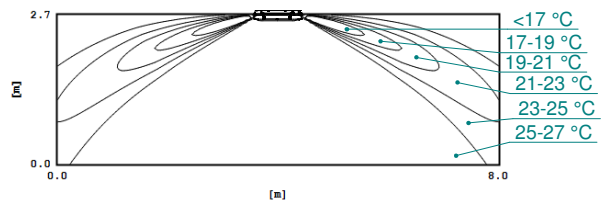
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FXUA71A

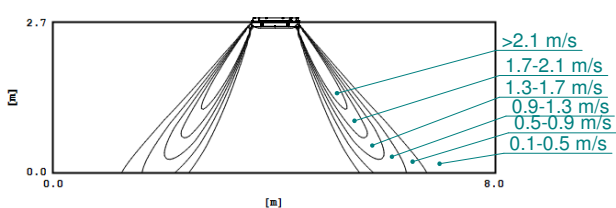
Air velocity distribution (cooling)
Air flow direction: horizontal



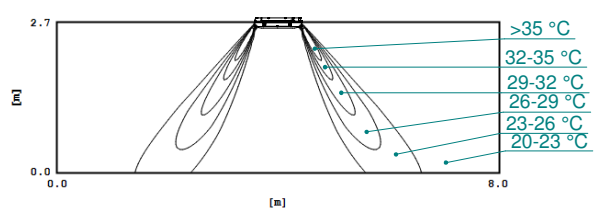
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Air flow direction: horizontal



Air velocity distribution (heating)
Air flow direction: vertical



Air temperature distribution (heating)
Air flow direction: vertical



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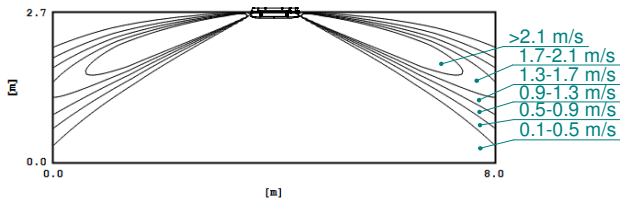
11 Air flow patterns

11 - 1 Air flow pattern - Cooling and Heating

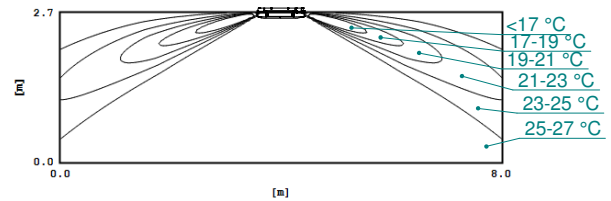
FXUA100A

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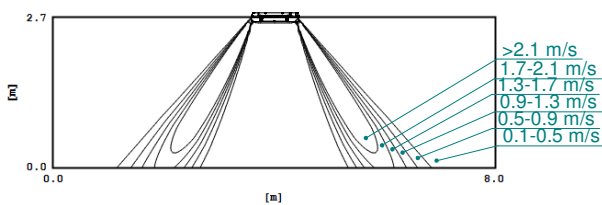
Air velocity distribution (cooling)
Air flow direction: horizontal



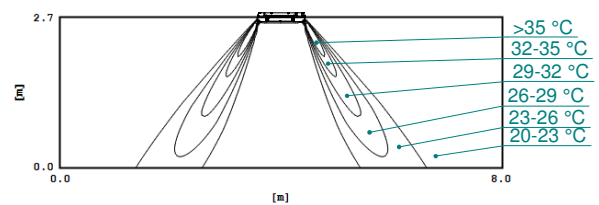
Air temperature distribution (cooling)
Air flow direction: horizontal



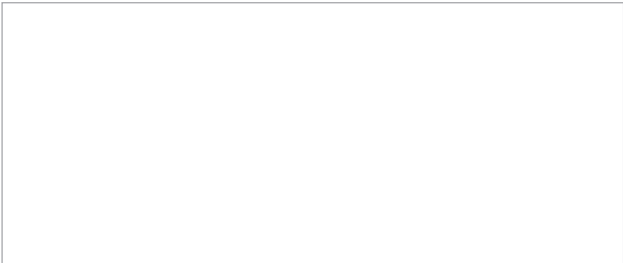
Air velocity distribution (heating)
Air flow direction: vertical



Air temperature distribution (heating)
Air flow direction: vertical



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10/2022



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