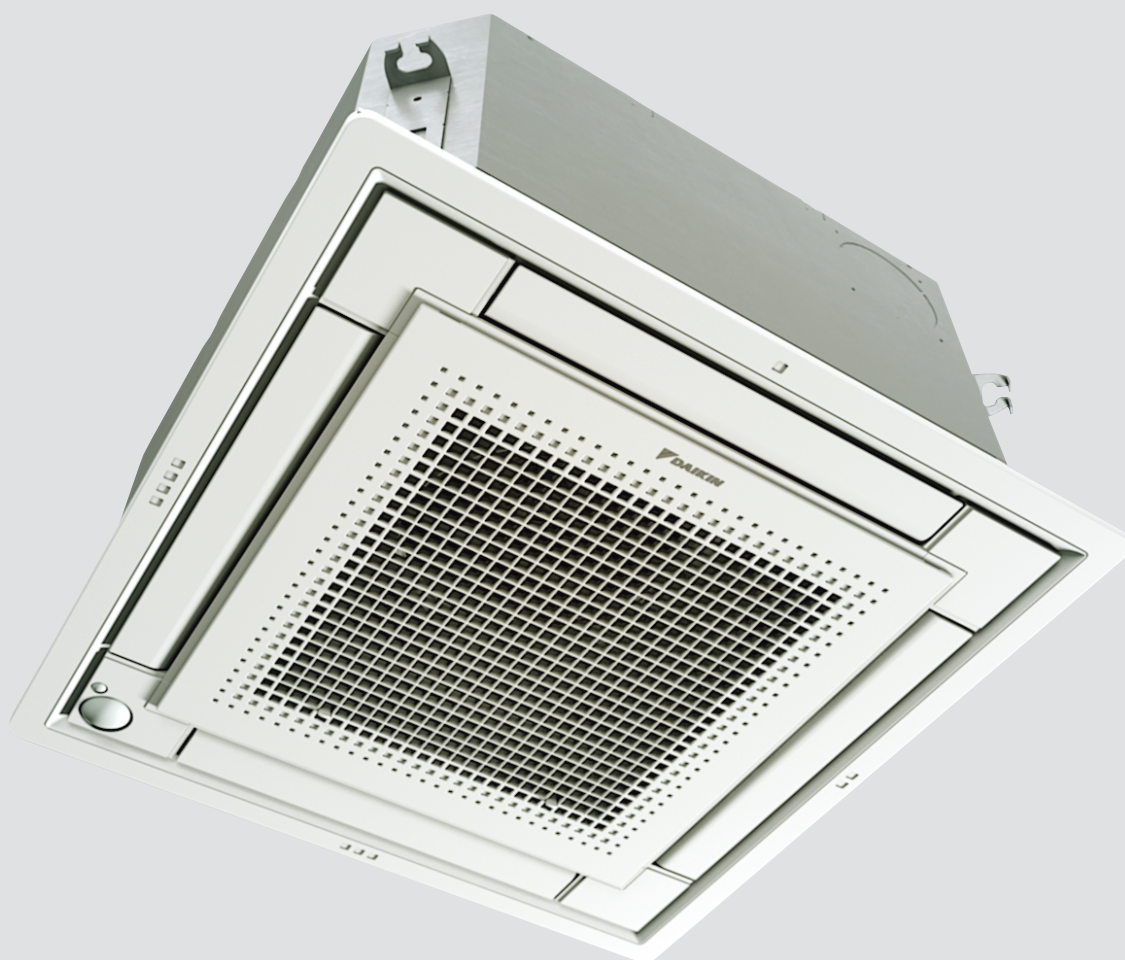


Air Conditioning
Technical Data

FFA-A9



- > FFA25A2VEB9
- > FFA35A2VEB9
- > FFA50A2VEB9
- > FFA60A2VEB9

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FFA-A9

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1 Features

Unique design in the market that integrates fully flat into the ceiling

- Fully flat integration in standard architectural ceiling tiles, leaving only 8mm
- Remarkable blend of iconic design and engineering excellence with an elegant finish in white or a combination of silver and white
- Unified indoor unit range for R-32 and R-410A
- Combining with R-32 Bluevolution technology, reduces environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has up to lower 16% refrigerant charge
- Two optional intelligent sensors improve energy efficiency and comfort
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Reduced energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Optional fresh air intake
- Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- Standard drain pump with 630mm lift increases flexibility and installation speed



Infrastructure cooling



Inverter



Presence & floor sensor



Home leave operation



Fan only



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



Online controller via app



Auto-restart



Self diagnosis



Drain pump kit



Twin/triple/double twin application



Multi model application



VRV for residential application

2 Specifications

2-1 Technical Specifications					FFA25A9		FFA35A9		FFA50A9		FFA60A9	
Casing	Material				Galvanised steel plate							
Dimensions	Unit	Height/Width/Depth		mm	260/575/575							
	Packed unit	Height/Width/Depth		mm	280/686/597							
Weight	Unit			kg	16.0				17.5			
	Packed unit			kg	18.0				19.0			
Decoration panel	Model				BYFQ60C2W1W							
	Colour				White (N9.5)							
	Dimensions	HeightxWidthxDepth		mm	46x620x620							
	Weight			kg	2.8							
Decoration panel 2	Model				BYFQ60C2W1S							
	Colour				SILVER							
	Dimensions	HeightxWidthxDepth		mm	46x620x620							
	Weight			kg	2.8							
Decoration panel 3	Model				BYFQ60B2W1							
	Colour				White (RAL9010)							
	Dimensions	HeightxWidthxDepth		mm	55x700x700							
	Weight			kg	2.7							
Decoration panel 4	Model				BYFQ60B3W1							
	Colour				WHITE (RAL9010)							
	Dimensions	HeightxWidthxDepth		mm	55x700x700							
	Weight			kg	2.7							
Heat exchanger	Inside length			mm	1,295				1,248			
	Outside length			mm	1,342							
	Rows	Quantity			2				3			
	Fin pitch			mm	1.20							
	Passes	Quantity			5				7			
	Face area			m²	0.29				0.30			
	Stages	Quantity			12				16			
	Empty tubeplate hole			Quantity	0							
	Fin	Type			Cross fin coil (multi slit fins and hi-XA tubes)							
Air filter	Type				Resin net							
Fan	Model				QTS32D15M							
	Type				Turbo fan							
	Quantity				1							
	Air flow rate	Cooling	High	m³/min	9.0	10.0		12.7		14.5		
				cfm	318	353		448		512		
			Medium	m³/min	8.0	8.5		10.9		12.5		
				cfm	282	300		385		442		
			Low	m³/min	6.5			8.6			9.5	
				cfm	230			304			336	
		Heating	High	m³/min	9.0	10.0		12.7		14.5		
				cfm	318	353		448		512		
			Medium	m³/min	8.0	8.5		10.9		12.5		
cfm				282	300		385		442			
Low	m³/min		6.5			8.6			9.5			
	cfm		230			304			336			

2 Specifications

2-1 Technical Specifications					FFA25A9	FFA35A9	FFA50A9	FFA60A9
Fan motor	Quantity				1			
	Model				ARW5204DK			
	Speed	Steps			3			
		Cooling	High/Low	rpm	653/447		793/538	900/581
		Heating	High/Low	rpm	653/447		793/538	900/581
	Output	High		W	50			
Sound power level	Cooling			dBA	48.0	51.0	56.0	60.0
Sound pressure level	Cooling	High/Medium/Low	dBA	31.0/28.5/25.0	34.0/30.5/25.0	39.0/34.0/27.0	43.0/40.0/32.0	
	Heating	High/Medium/Low	dBA	31.0/28.5/25.0	34.0/30.5/25.0	39.0/34.0/27.0	43.0/40.0/32.0	
Control systems	Infrared remote control				BRC7EB530W (standard panel) / BRC7F530W (white panel) / BRC7F530S (grey panel)			
	Wired remote control				BRC1D528 / BRC1E53A7 / BRC1E53B7 / BRC1E53C7			
Refrigerant	Type				R-32 / R-410A			
Piping connections	Sound absorbing insulation				Foamed polyurethane			
	Liquid	Type/OD	mm	Flare connection/6,35				
	Gas	Type/OD	mm	Flare connection/9.52		Flare connection/12.70		
	Drain				VP20 (I.D. 20/O.D. 26)			
	Heat insulation				Foamed polystyrene/polyethylene			

Standard Accessories : Installation and operation manual; Quantity : 1;

Standard Accessories : Drain hose; Quantity : 1;

Standard Accessories : Hose band; Quantity : 1;

Standard Accessories : Washer for hanger bracket; Quantity : 8;

Standard Accessories : Screws; Quantity : 4;

Standard Accessories : Thermal insulation tube; Quantity : 2;

Standard Accessories : Sealing material; Quantity : 4;

Standard Accessories : Tie-wraps; Quantity : 7;

2-2 Electrical Specifications				FFA25A9	FFA35A9	FFA50A9	FFA60A9
Power supply	Phase			1~			
	Frequency		Hz	50			
	Voltage		V	220-240			

3 Safety device settings

3 - 1 Safety Device Settings

FFA-A9

3

Safety devices		FFA25-60A2VEB(9)
PCB fuse		250V, 3.15A
PCB fuse (fan driver)		---
Fan motor overcurrent protection	Nominal	0.74A
Fan motor thermal protector	Maximum	108°C
Drain pump fuse		---

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Options

Options

FFA-A9

Option kit	Product name	Compatibility			Availability
		BYFQ60B2W1 BYFQ60B3W1	BYFQ60C2W1W	BYFQ60C2W1S	SA FFA25A2VEB(9) FFA35A2VEB(9) FFA50A2VEB(9) FFA60A2VEB(9)
Decoration panel - Standard	BYFQ60B2W1	-	-	-	✓
Decoration panel - Standard	BYFQ60B3W1	-	-	-	✓
Decoration panel - White	BYFQ60C2W1W	-	-	-	✓
Decoration panel - Silver	BYFQ60C2W1S	-	-	-	✓
Sensor kit - White	BRYQ60A2W(3)	No	Yes	No	✓
Sensor kit - Silver	BRYQ60A2S(3)	No	No	Yes	✓
Air discharge outlet sealing member	BDBHQ44C60	Yes	Yes	Yes	✓
Panel spacer	KDBQ44B60	Yes	No	No	✓
Long-life replacement filter	KAFQ441BA60	Yes	Yes	Yes	✓
Fresh air intake kit	KDDQ44XA60	Yes	Yes	Yes	✓
Remote control Infrared type HP	BRC7EB530W(1)(2)	Yes	No	No	✓
Remote control Infrared type HP White	BRC7FS30W(1)(2)	No	Yes	No	✓
Remote control Infrared type HP Silver	BRC7FS30S(1)(2)	No	No	Yes	✓
Wired remote control	BRC1D52B(2), BRC1H51(9)W/S/K, BRC1H81W/S	Yes	Yes	Yes	✓
Wired remote control	BRC1E53A7(8)/BRC1E53B7(9)/ BRC1E53C7(10)(11)	Yes	Yes	Yes	✓
Simplified remote control (with operation mode selector button)	BRC2E52C7(5)(11)	Yes	Yes	Yes	✓
Simplified remote control (without operation mode selector button)	BRC3E52C7(5)(11)	Yes	Yes	Yes	✓
Central remote control	DCS302B51				✓
Unified ON/OFF controller	DCS301B51	Yes	Yes	Yes	✓
Schedule timer	DST301B51	Yes	Yes	Yes	✓
Wiring adaptor for electrical appendices	KRP1B57	Yes	Yes	Yes	✓
Wiring adaptor for electrical appendices	KRP4A53	Yes	Yes	Yes	✓
Wiring adaptor (hour meter)	EKRP1B2	Yes	Yes	Yes	✓
Installation box for adaptor PCB	KRP1B101, KRP1BA101	Yes	Yes	Yes	✓
Remote sensor	KRC501-4B	Yes	Yes	Yes	✓
ITouch Controller	DCS601CS1	Yes	Yes	Yes	✓
Centralised control systems	DCM601A51	Yes	Yes	Yes	✓
Intelligent touch controller	DCM601ASA	Yes	Yes	Yes	✓
Digital input adaptor	BRP7A53(6)	Yes	Yes	Yes	✓
Wi-Fi adaptor for smartphones	BRP069A81(13)	Yes	Yes	Yes	✓

- ①: The sensing function is not available.
 ②: The independently-controllable-flaps function is not available.
 ③: This option cannot be used with RR and RQ models.
 ④: The independently-controllable-flaps function is not available in combination with RR and RQ models.
 ⑤: Included languages are:
 Language pack 1: English, German, French, Dutch, Spanish, Italian, and Portuguese.
 With PC cable EKPCAB3 in combination with the Updater PC software, you can additionally change the language to:
 Language pack 3: English, Greek, Polish, Russian, Serbian, Slovak, and Turkish.
 Language pack 2: English, Bulgarian, Croatian, Czech, Hungarian, Romanian, and Slovenian.
 ⑥: Only possible in combination with remote control BRC2/3E52C, BRC1E53A/B/C7, BRC1H51(9)W/S/K, BRC1H81W/S.
 ⑦: Requires installation box for adaptor PCB
 ⑧: Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.
 ⑨: Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.
 ⑩: Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.
 ⑪: Language pack 3 of controller BRC1E53C7 is different from that of controller BRC2/3E52C7.
 ⑫: Only possible in combination with wired or wireless remote control (e.g. BRC1E*, BRC1H*, BRC7FA*)

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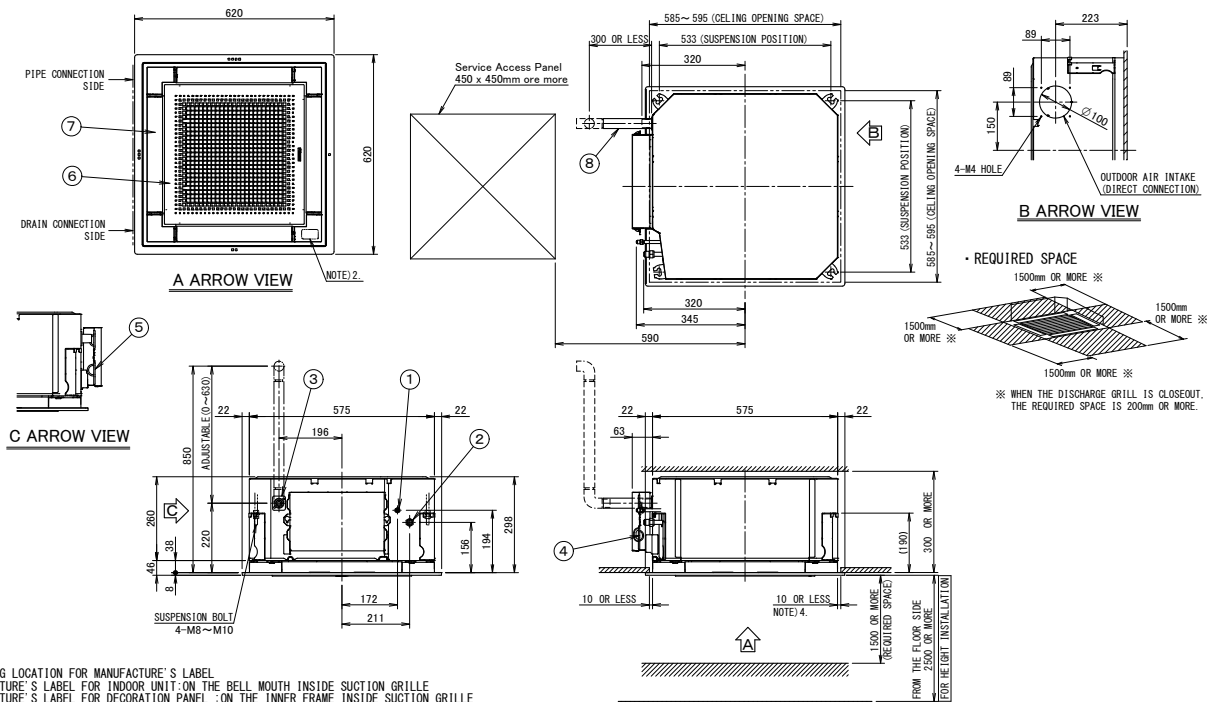
5 Dimensional drawings

5 - 1 Dimensional Drawings

FFA50-60A9

• DECORATION PANEL

BYF060C2W1W FRESH WHITE N9.5
BYF060C2W1S DAIKIN SILVER



- NOTE) 1. STICKING LOCATION FOR MANUFACTURE'S LABEL.
MANUFACTURE'S LABEL FOR DECORATION PANEL, ON THE INNER FRAME INSIDE SUCTION GRILLE.
MANUFACTURE'S LABEL FOR DECORATION PANEL, ON THE INNER FRAME INSIDE SUCTION GRILLE.
2. IN CASE OF USING WIRELESS REMOTE CONTROLLER, THIS POSITION WILL BE A SIGNAL RECEIVER.
REFER TO THE DRAWING OF WIRELESS REMOTE CONTROLLER IN DETAIL.
3. WHEN THE TEMPERATURE AND HUMIDITY IN THE CEILING EXCEED 30°C AND RH 80% OR THE FRESH AIR IS INDUCTED INTO THE CEILING OR THE UNIT CONTINUES 24 HOUR OPERATION, AN ADDITIONAL INSULATION (THICKNESS 10mm OR MORE OF GLASSWOOL OR POLYETHYLENE FOAM) IS REQUIRED.
4. THOUGH THE INSTALLATION IS ACCEPTABLE UP TO MAXIMUM OF 595mm SQUARE CEILING OPENING, KEEP THE CLEARANCE OF 10mm OR LESS BETWEEN THE MAIN UNIT AND THE CEILING OPENING SO THAT THE PANEL OVERLAP ALLOWANCE CAN BE ENSURED.

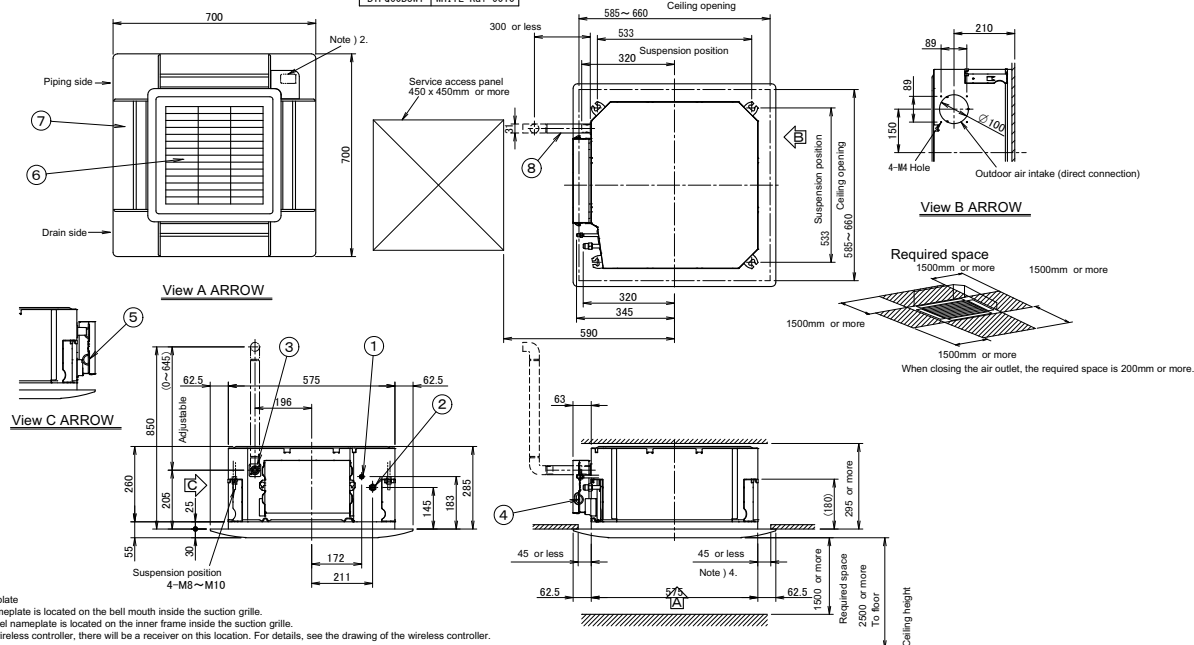
ITEM	PART NAME	REMARK	ITEM	PART NAME	REMARK
1	LIQUID PIPE CONNECTION	φ6.4 (FLARE CONNECTION)	5	REMOTE CONTROL CODE AND CONTROL WIRING CONNECTION	
2	GAS PIPE CONNECTION	φ12.7 (FLARE CONNECTION)	6	AIR DISCHARGE GRILLE	
3	DRAIN PIPE CONNECTION	VP20 (O.D. φ25)	7	SUCTION GRILLE	
4	POWER SUPPLY CONNECTION		8	DRAIN HOSE (ACCESSORY)	I.D. φ25 (OUTLET)

3D082052

FFA50-60A9

Decoration panel

BYF060B2W1 WHITE Ra1 9010
BYF060B3W1 WHITE Ra1 9010



- Note)
1. Location of nameplate
The indoor unit nameplate is located on the bell mouth inside the suction grille.
The decoration panel nameplate is located on the inner frame inside the suction grille.
2. When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.
3. If any of the following conditions are met, additional insulation (glass wool or polyethylene foam, thickness ≥10mm) is required:
Ambient conditions in the ceiling ≥30°C and 80% relative humidity.
Fresh air is inducted into the ceiling.
The unit operates continuously.
4. Though the installation is acceptable up to maximum 660mm square ceiling opening, keep the clearance of 45mm or less between the indoor unit and the ceiling opening, so that the panel overlap allowance can be ensured.

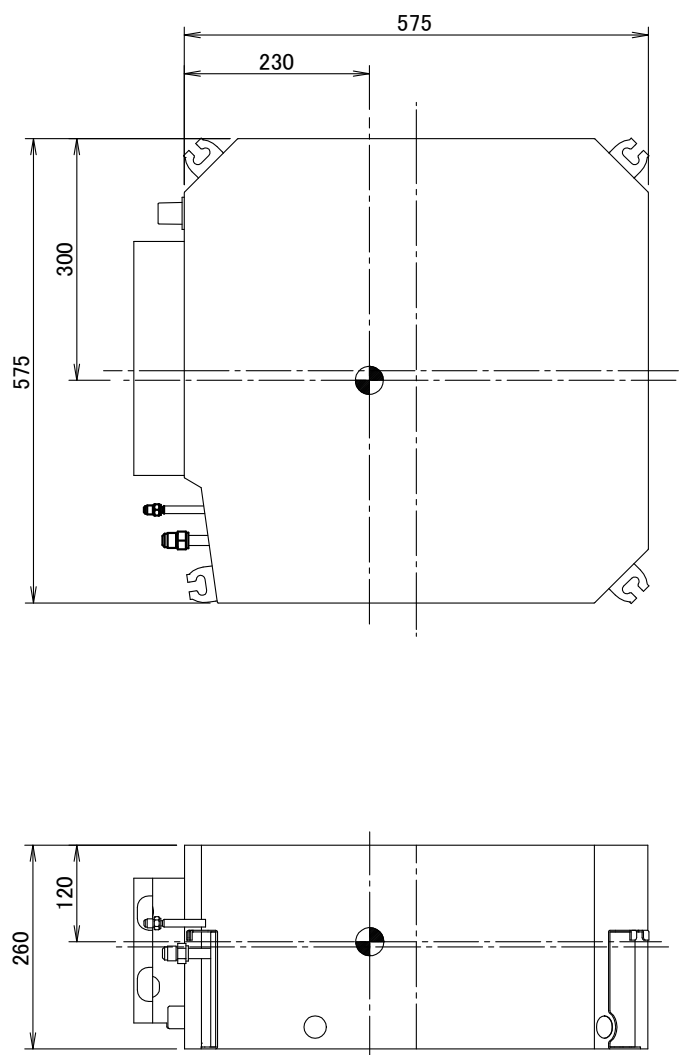
Item	Part name	Remark	Item	Part name	Remark
1	Liquid pipe connection	φ6.4 Flare connection	5	Remote control code and control wiring connection	
2	Gas pipe connection	φ12.7 Flare connection	6	Air discharge grille	
3	Drain pipe connection	VP20 (O.D. φ25)	7	Air suction grille	
4	Power supply		8	Drain hose Accessory	I.D. φ25 Outlet

3D082161C

6 Centre of gravity

6 - 1 Centre of Gravity

FFA-A9



4D082432

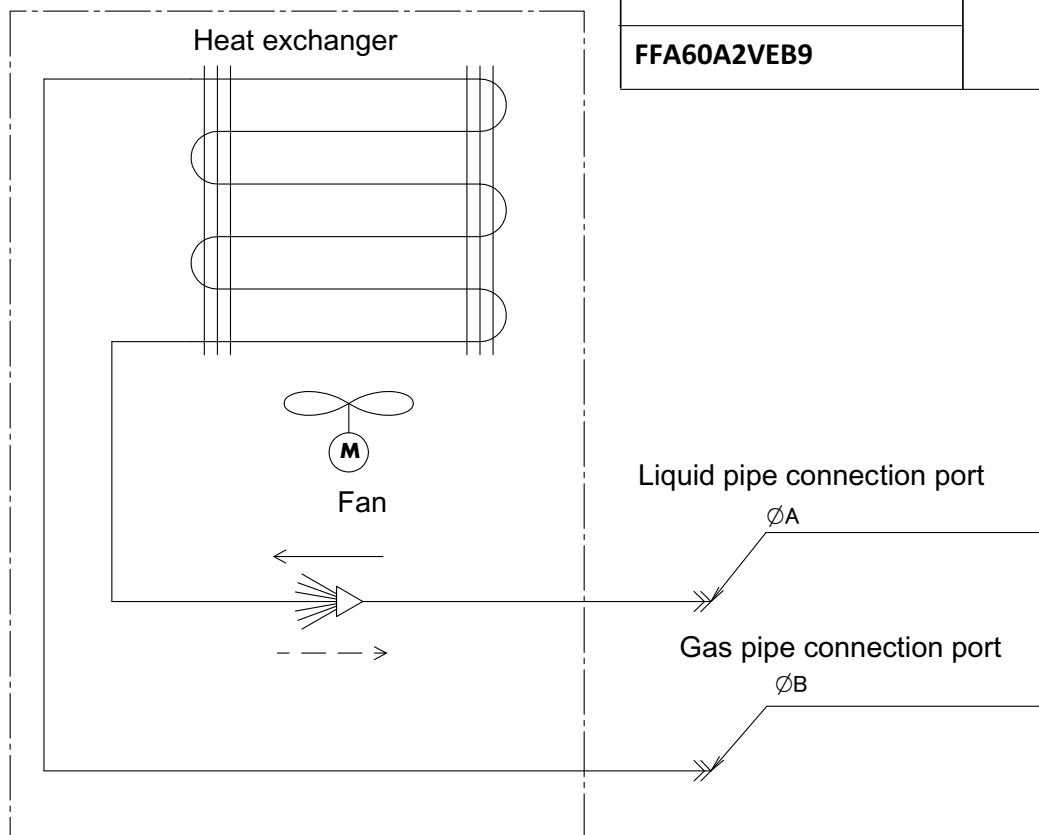
7 Piping diagrams

7 - 1 Piping Diagrams

FFA-A9

Refrigerant flow

Cooling —————>
Heating - - - ->



Model	A	B
FFQ25C2VEB	6.35	9.52
FFQ35C2VEB		
FFQ50C2VEB		
FFQ60C2VEB		12.7
FFA25A2VEB		
FFA35A2VEB		9.52
FFA50A2VEB		
FFA60A2VEB		12.7
FFA25A2VEB9		
FFA35A2VEB9		9.5
FFA50A2VEB9		
FFA60A2VEB9		

4D082551A

WIRING DIAGRAM

COMPONENTS AND FUNCTIONS:

- INDOOR UNIT:**
 - HWP: PILOT LAMP (ON-RED)
 - H2P: PILOT LAMP (TIMER-GREEN)
 - H3P: PILOT LAMP (FILTER, SIGN-RED)
 - H4P: PILOT LAMP (DEFROST-ORANGE)
 - DS1: SELECTOR SWITCH (MAIN/SUB)
 - DS2: SELECTOR SWITCH (WIRELESS ADDRESS SET)
 - SENSOR KIT:**
 - AAP: PRINTED CIRCUIT BOARD
 - ASP: PRINTED CIRCUIT BOARD
 - WIRED REMOTE CONTROLLER:**
 - R1T: THERMISTOR (AIR)
 - R2T: THERMISTOR (COIL)
 - R3T: FLOAT SWITCH
 - V1R: DIODE BRIDGE
 - X1R: TERMINAL BLOCK
 - X2R: TERMINAL BLOCK
 - Z1F: NOISE FILTER
 - Z2C: FERRITE CORE
 - Z2D: FERRITE CORE
 - PS: SWITCHING POWER SUPPLY
 - RC: RECEIVER
 - TC: TRANSMITTER
 - WIRELESS REMOTE CONTROLLER (DECEIVER/DISPLAY UNIT):**
 - AAP: AAP
 - ASP: ASP
 - BST: PUSH BUTTON SWITCH ON PCB

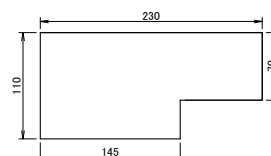
NOTES:

- □ □ TERMINAL BLOCK □ □ □ : CONNECTOR □ □ □ : FIELD WIRING
- IN CASE OF SIMULTANEOUS OPERATION INDOOR UNIT SYSTEM, SEE THE INDOOR UNIT WIRING ONLY.
- FOR THE DETAIL, SEE WIRING DIAGRAM ATTACHED TO OUTDOOR UNIT.
- IN CASE USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTALLATION MANUAL.
- IN CASE OF SIMULTANEOUS OPERATION SYSTEM, CONNECTION QUANTITY OF THE INDOOR UNITS VARIES ACCORDING TO THE CONNECTION OUTDOOR UNIT. CONFIRM TECHNICAL GUIDE AND CATALOG, ETC. BEFORE CONNECTING.
- IN CASE OF MAIN/SUB CHANGEOVER, SEE THE INSTALLATION MANUAL ATTACHED TO REMOTE CONTROLLER.
- SYMBOLS SHOW AS FOLLOWS: BLK:BLACK RED:RED BLU:BLUE WHT:WHITE YLW:YELLOW GRN:GREEN ORG:ORANGE BRN:BROWN PNK:PINK.
- WHEN CONNECTING THE INPUT WIRINGS FROM OUTSIDE, FORCED OFF OR ON/OFF OPERATION CAN BE SELECTED BY THE REMOTE CONTROLLER. SEE INSTALLATION MANUAL FOR DETAIL.

IN CASE OF SIMULTANEOUS OPERATION SYSTEMNOTE ②

3D109453-1

1. DIMENSIONS FOR PRINTING ARE:

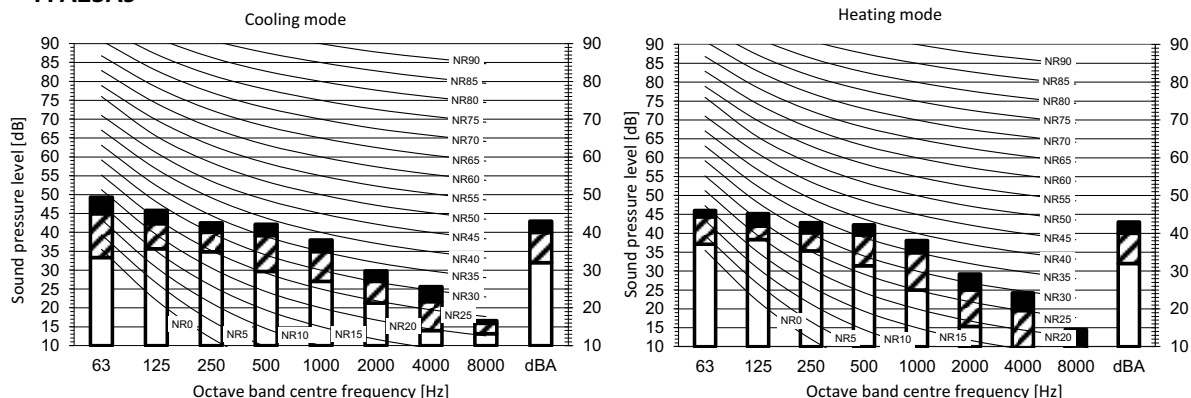


3D109453A

9 Sound data

9 - 1 Sound Pressure Spectrum

FFA25A9



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

A Scale Fan speed

B High

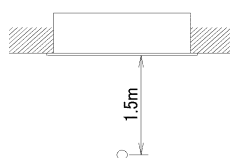
C Medium

D Low

Cooling Total dB			
A	B	C	D
dBA	31	28,5	25

Heating Total dB			
A	B	C	D
dBA	31	28,5	25

Location of microphone

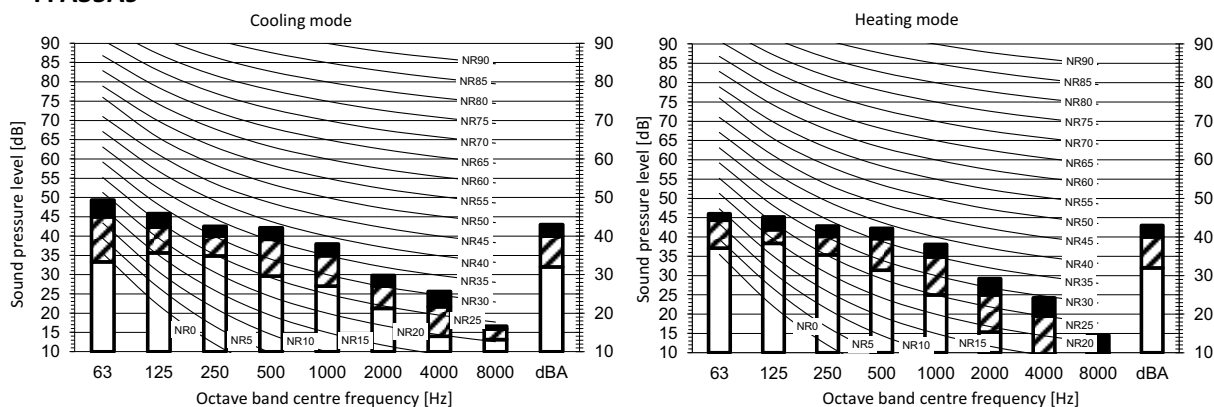


Notes

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

3D109998

FFA35A9



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

A Scale Fan speed

B High

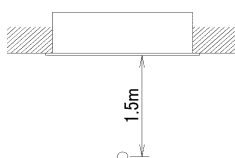
C Medium

D Low

Cooling Total dB			
A	B	C	D
dBA	34	30,5	25

Heating Total dB			
A	B	C	D
dBA	34	30,5	25

Location of microphone



Notes

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

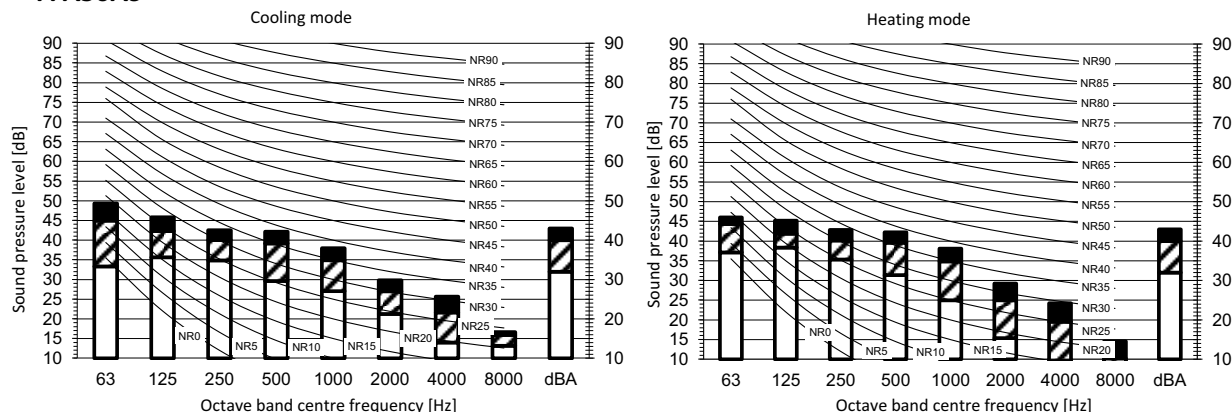
3D109999

9 Sound data

9 - 1 Sound Pressure Spectrum

9

FFA50A9



Cooling			
Total dB			
A	B	C	D
dBA	39	34	27

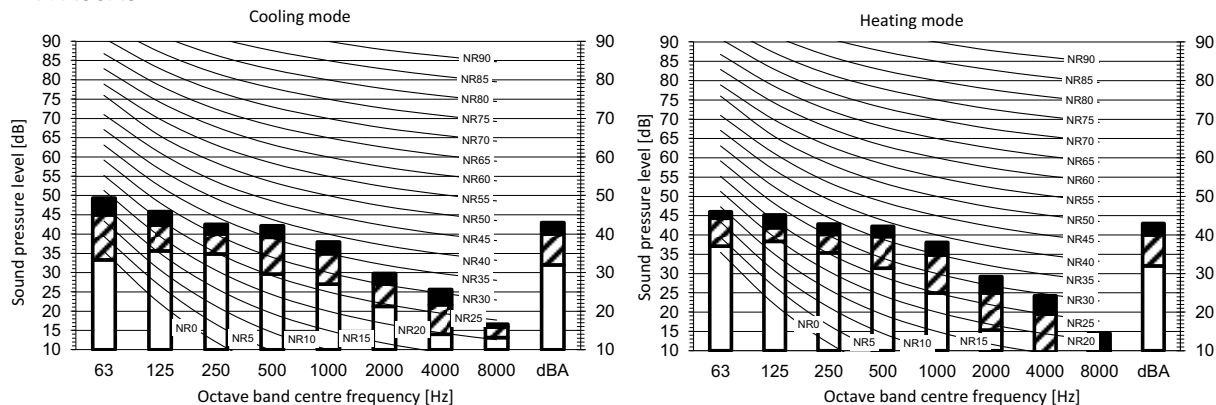
Heating			
Total dB			
A	B	C	D
dBA	39	34	27

Notes

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

3D110000

FFA60A9



Cooling			
Total dB			
A	B	C	D
dBA	43	40	32

Heating			
Total dB			
A	B	C	D
dBA	43	40	32

Notes

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

3D110001

10 Air flow patterns

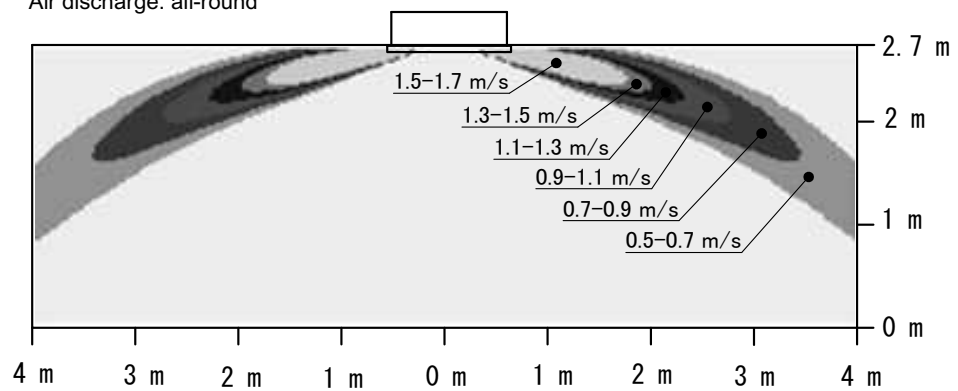
10 - 1 Air Flow Pattern - Cooling

FFA25A9

Air velocity distribution (cooling)

Air flow direction: horizontal

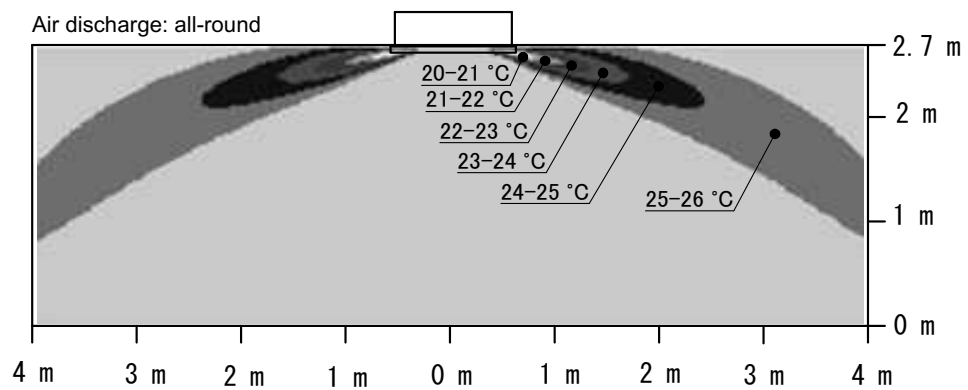
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

Air discharge: all-round



4D083819A

10 Air flow patterns

10 - 1 Air Flow Pattern - Cooling

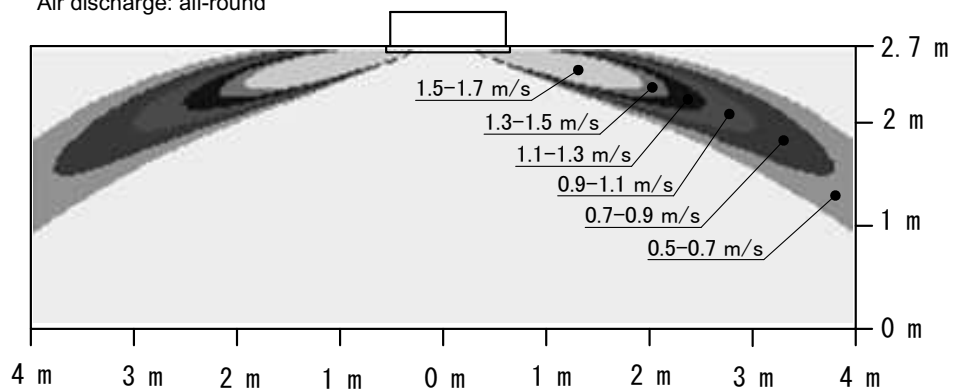
FFA35A9

10

Air velocity distribution (cooling)

Air flow direction: horizontal

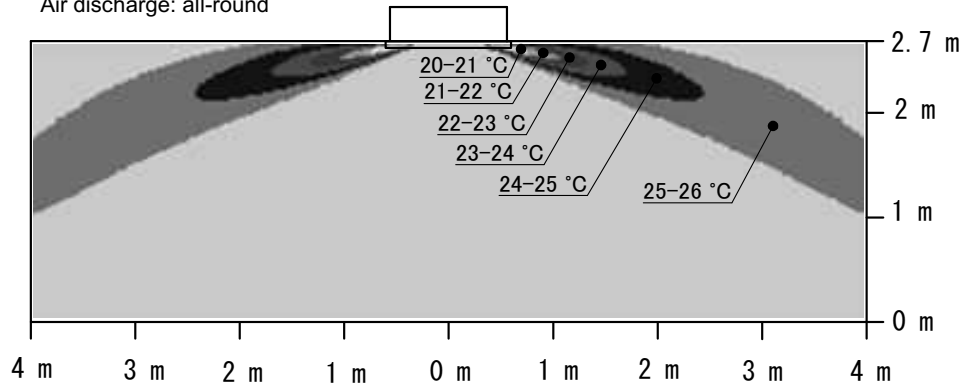
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

Air discharge: all-round



4D083820A

10 Air flow patterns

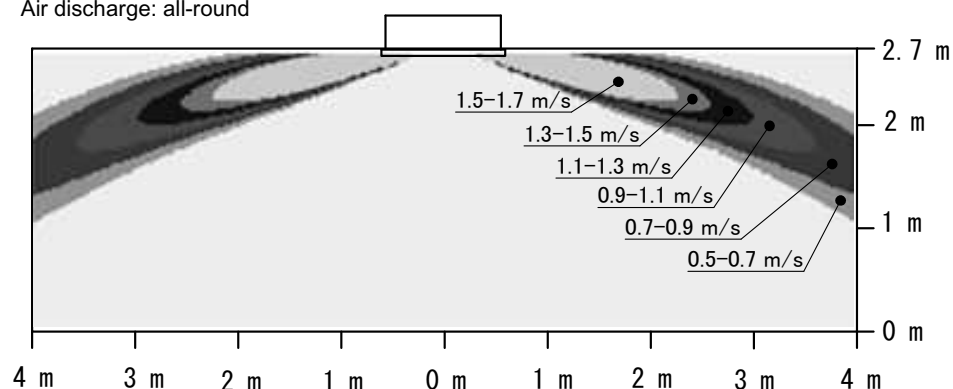
10 - 1 Air Flow Pattern - Cooling

FFA50A9

Air velocity distribution (cooling)

Air flow direction: horizontal

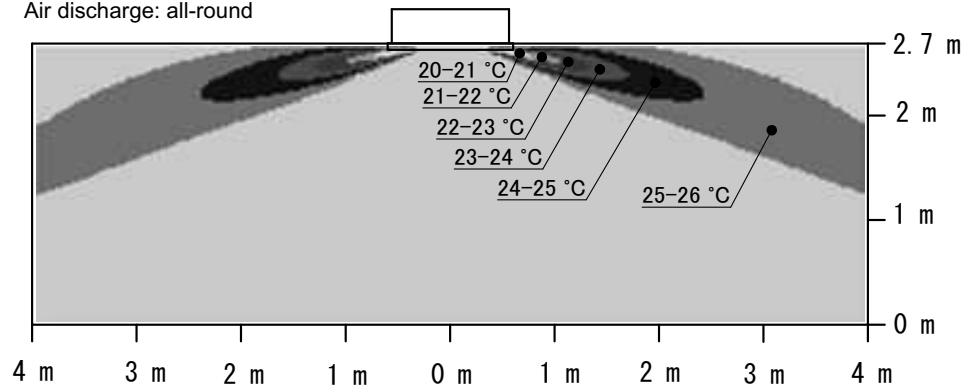
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

Air discharge: all-round



4D083821A

10 Air flow patterns

10 - 1 Air Flow Pattern - Cooling

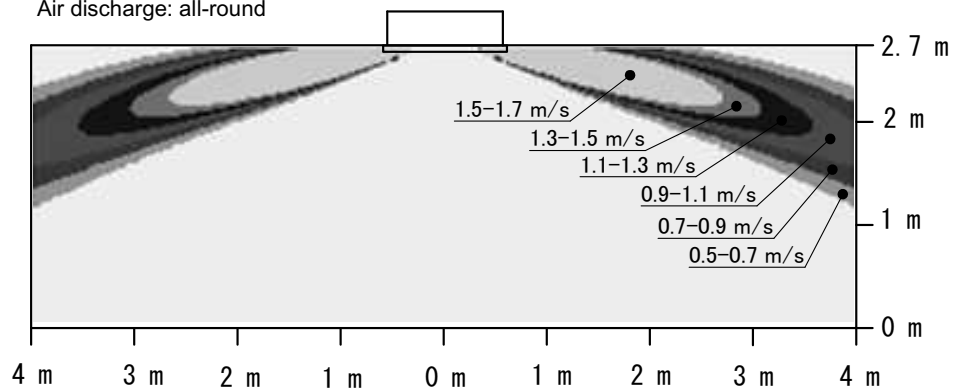
FFA60A9

10

Air velocity distribution (cooling)

Air flow direction: horizontal

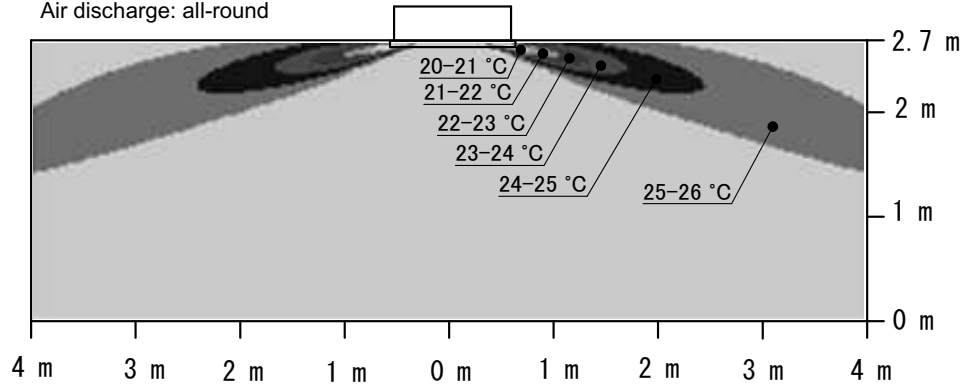
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

Air discharge: all-round



4D083822A

10 Air flow patterns

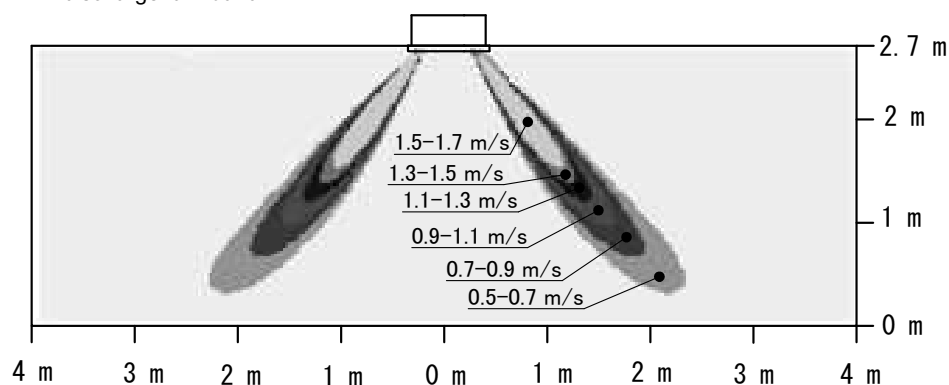
10 - 2 Air Flow Pattern - Heating

10

FFA25A9

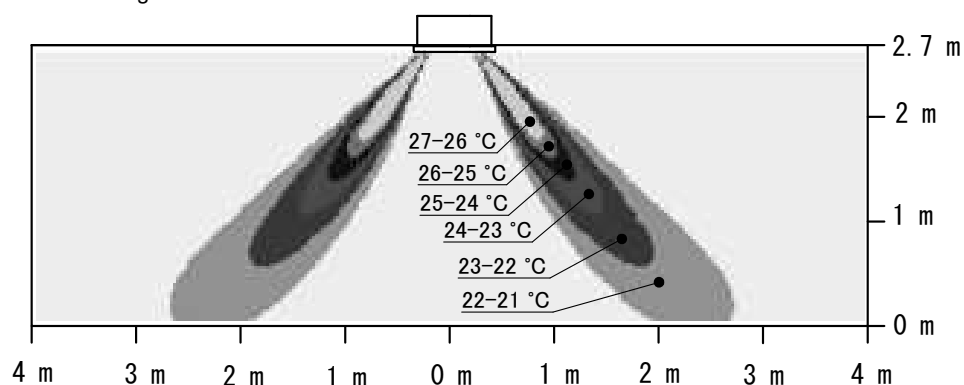
Air velocity distribution (heating)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: horizontal
Air discharge: all-round



4D083829A

10 Air flow patterns

10 - 2 Air Flow Pattern - Heating

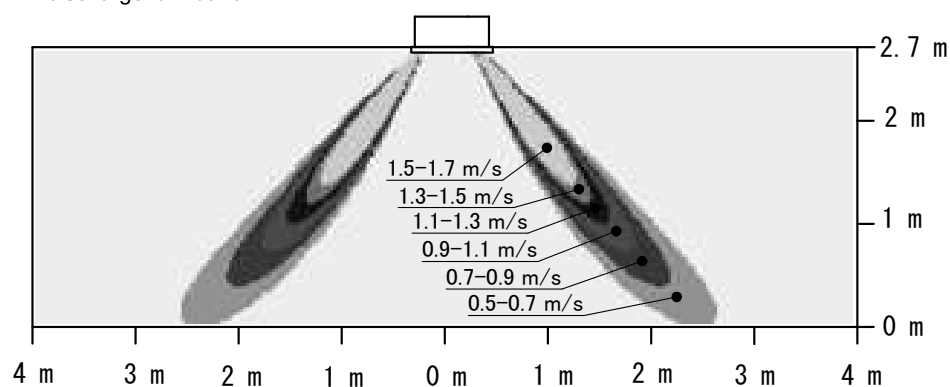
FFA35A9

10

Air velocity distribution (heating)

Air flow direction: horizontal

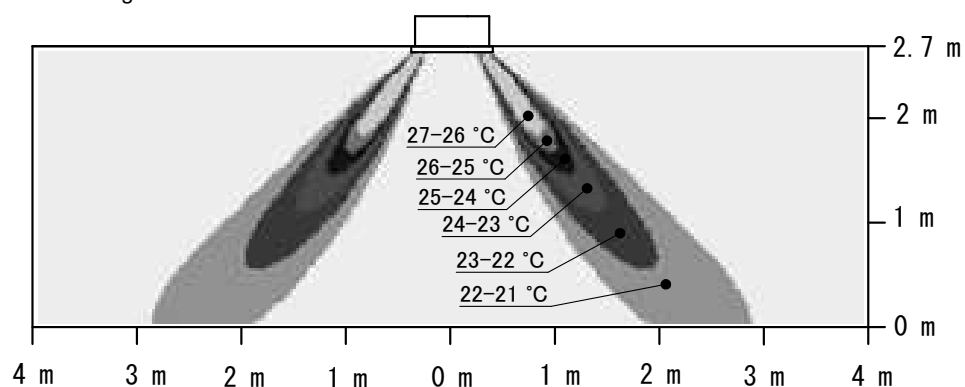
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: horizontal

Air discharge: all-round



4D083830A

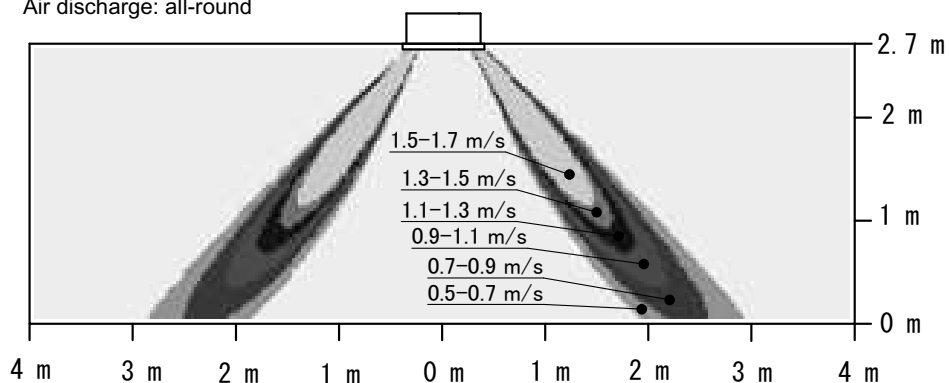
10 Air flow patterns

10 - 2 Air Flow Pattern - Heating

FFA50A9

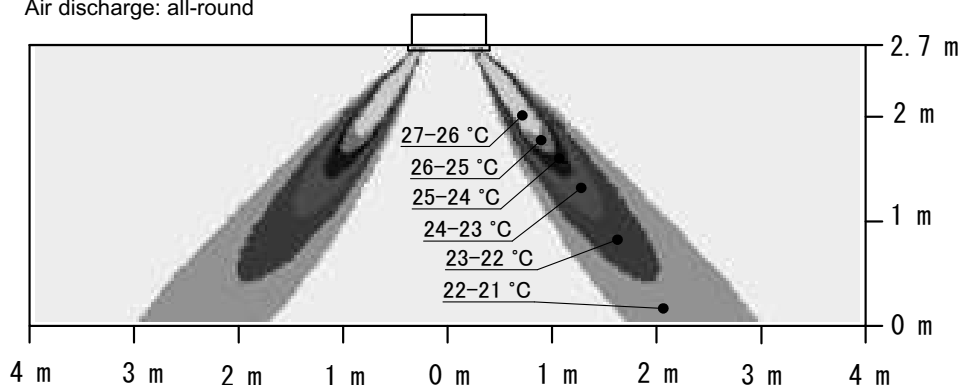
Air velocity distribution (heating)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: horizontal
Air discharge: all-round



4D083831A

10 Air flow patterns

10 - 2 Air Flow Pattern - Heating

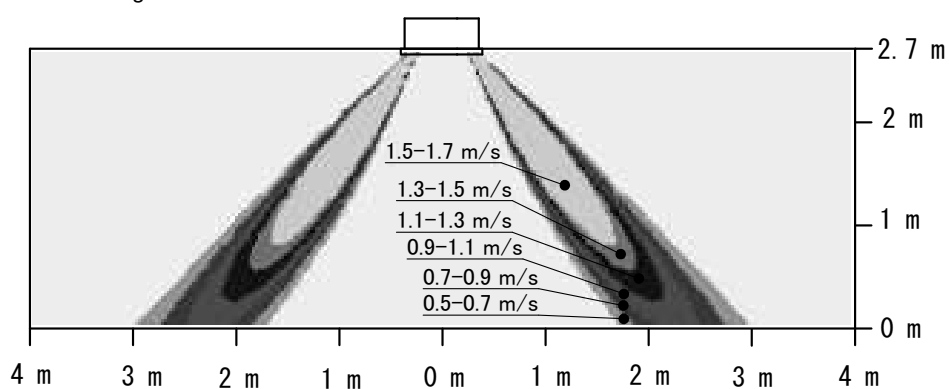
FFA60A9

10

Air velocity distribution (heating)

Air flow direction: horizontal

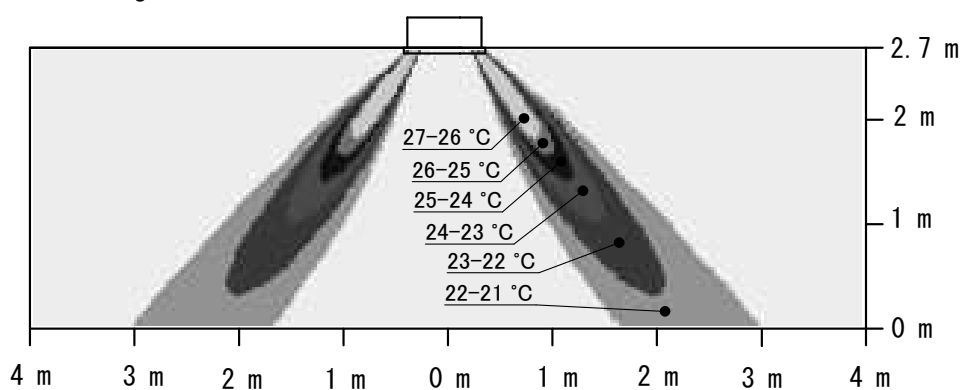
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: horizontal

Air discharge: all-round



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