Fully flat cassette Air Conditioning Technical Data

FXZQ-A

FXZQ15A2VEB
FXZQ20A2VEB
FXZQ25A2VEB
FXZQ32A2VEB
FXZQ40A2VEB
FXZQ50A2VEB

EEDEN22A

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FXZQ-A

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1 Features

1 - 1 FXZQ-A

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

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- 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
- Two optional intelligent sensors improve energy efficiency and comfort
- 15 class unit especially developed for small or well-insulated rooms, such as hotel bedrooms, small offices, etc.
- 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
- Standard drain pump with 630mm lift increases flexibility and installation speed

Inverter


Presence & floor sensor (optional)


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 (3 steps)

Dry programme


Air filter

Weekly timer (optional)


Infrared remote control (optional)


Wired remote control (optional)


Centralised control (optional)

Auto-restart

1 Features

1 - 1 FXZQ-A

Self diagnosis

Multi tenant (optional)

Drain pump kit (standard)

2 Specifications

1 - 1 FXZQ-A

Technical specifications					FXZQ15A	FXZQ20A	FXZQ25A	FXZQ32A	FXZQ40A	FXZQ50A
Cooling capacity	Sensible capacity	At high fan speed		kW	1.40	1.70	2.00	2.40	3.30	4.10
	Latent capacity	At high fan speed		kW	0.300	0.500	0.800	1.20	-	1.50
	Total capacity	At high fan speed		kW	1.70	2.20	2.80	3.60	4.50	5.60
Heating capacity	Total capacity	At high fan speed		kW	1.90	2.50	3.20	4.00	5.00	6.30
Power input - 50Hz	Cooling	At high fan speed		kW	0.018 (1)		0.020 (1)	0.019 (1)	0.029 (1)	0.048 (1)
		At medium fan speed		kW	0.013 (1)		0.016 (1)	0.015 (1)	0.019 (1)	0.036 (1)
		At low fan speed		kW	0.0100 (1)			0.011 (1)	0.014 (1)	0.019 (1)
	Heating	At high fan speed		kW	0.018 (1)		0.020 (1)	0.019 (1)	0.029 (1)	0.048 (1)
		At medium fan speed		kW	0.013 (1)		0.016 (1)	0.015 (1)	0.019 (1)	0.036 (1)
		At low fan speed		kW	0.0100 (1)			0.011 (1)	0.014 (1)	0.019 (1)
Power input - 60Hz	Cooling	At high fan speed		kW	0.018 (1)		0.020 (1)	0.019 (1)	0.029 (1)	0.048 (1)
	Heating	At high fan speed		kW	0.018 (1)		0.020 (1)	0.019 (1)	0.029 (1)	0.048 (1)
Dimensions	Unit	Height		mm	260					
		Width		mm	575					
		Depth		mm	575					
	Packed unit	Height		mm	280					
		Width		mm	686					
		Depth		mm	597					
Weight	Unit			kg	15.5			16.5		18.5
	Packed unit			kg	17		18			19
Casing	Material				Galvanised steel plate					
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			4			5		7
	Face area			m^2	0.218			0.290		0.300
	Stages	Quantity			12			16		
	Empty tubeplate hole	Quantity			0					
	Fin	Type			Cross fin coil (multi slit fins and hi-XA tubes)					
Fan	Type				Turbo fan					
	Quantity				1					
	Air flow rate - 50Hz	Cooling	At high fan speed	m^3/min	8.5	8.7	9.0	10.0	11.5	14.5
			At medium fan speed	m^3/min	7.00	7.50	8.00	8.50	9.50	12.5
			At low fan speed	m^3/min	6.5			7.0	8.0	10.0
		Heating	At high fan speed	m^3/min	8.5	8.7	9.0	10.0	11.5	14.5
Fan	Air flow rate - 50Hz	Heating	At medium fan speed	m^3/min	7.0	7.5	8.0	8.5	9.5	12.5
			At low fan speed	m^3/min	6.5			7.0	8.0	10.0
Sound power level	Cooling	At high fan speed		dBA	49		50	51	54	60
Sound pressure level	Cooling	At high fan speed		dBA	31.5	32.0	33.0	33.5	37.0	43.0
		At medium fan speed		dBA	28.0	29.5	30.0		32.0	40.0
		At low fan speed		dBA	25.5			26.0	28.0	33.0
	Heating	At high fan speed		dBA	31.5	32.0	33.0	33.5	37.0	43.0
		At medium fan speed		dBA	28.0	29.5	30.0		32.0	40.0
		At low fan speed		dBA	25.5			26.0	28.0	33.0
Fan motor	Model				QTS32D15M					
	Speed	Steps			3					
Refrigerant	Type				R-410A					
	GWP				2,087.5					
Piping connections	Liquid	Type			Flare connection					
		OD		mm	6					
	Gas	Type			Flare connection					
		OD		mm	12.7					
	Drain				VP20 (I.D. 20/O.D. 26)					
	Heat insulation				Foamed polystyrene / Foamed polyethylene					
	Sound absorbing insulation				Foamed polyurethane					
Decoration panel	Model				BYFQ60C2W1W					
	Colour				White (N9.5)					
	Dimensions	Height		mm	46					
		Width		mm	620					
		Depth		mm	620					
	Weight			kg	2.8					

2 Specifications

1 - 1 FXZQ-A

Technical specifications				FXZQ15A	FXZQ20A	FXZQ25A	FXZQ32A	FXZQ40A	FXZQ50A
Decoration panel 2	Model			BYFQ60C2W1S					
	Colour			SILVER					
	Dimensions	Height	mm	46					
		Width	mm	620					
		Depth	mm	620					
	Weight		kg	2.8					
Decoration panel 3	Model			BYFQ60B2W1					
	Colour			White (RAL9010)					
	Dimensions	Height	mm	55					
		Width	mm	700					
		Depth	mm	700					
Decoration panel 3	Weight		kg	2.7					
Decoration panel 4	Model			BYFQ60B3W1					
	Colour			WHITE (RAL9010)					
	Dimensions	Height	mm	55					
		Width	mm	700					
		Depth	mm	700					
	Weight		kg	2.7					
Air filter	Type			Resin net					
Control systems	Infrared remote control			BRC7F530W (white panel) / BRC7F530S (grey panel) / BRC7EB530W (standard panel)					
	Wired remote control			BRC1E53A / BRC1E53B / BRC1E53C / BRC1D52					
	Simplified wired remote control for hotel applications			BRC2E52C (heat recovery type) / BRC3E52C (heat pump type)					

Standard accessories: Operation manual; Quantity: 1;

Standard accessories: Installation manual; Quantity: 1;

Standard accessories: Drain hose; Quantity: 1;

Standard accessories: Metal clamp for drain hose; Quantity: 1;

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

Standard accessories: Screws; Quantity: 4;

Standard accessories: Insulation for fitting; Quantity: 2;

Standard accessories: Sealing pad; Quantity: 4;

Standard accessories: Clamps; Quantity: 7;

Electrical specifications			FXZQ15A	FXZQ20A	FXZQ25A	FXZQ32A	FXZQ40A	FXZQ50A
Power supply	Name		VE					
	Phase		1~					
	Frequency	Hz	50/60					
	Voltage	V	220-240/220					
Current - 50Hz	Minimum circuit amps (MCA)	A	0.3			0.4		0.6
	Maximum fuse amps (MFA)	A	16					
	Full load amps (FLA) Total	A	0.2			0.3		0.5

(1)Values are valid for the factory setting. |
Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB |
Dimensions do not include control box |
The sound power level is an absolute value indicating the power which a sound source generates. |
Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |
Maximum allowable voltage range variation between phases is 2%. |
MCA/MFA: MCA = 1.25 x FLA |
MFA ≤ 4 x FLA |
Next lower standard fuse rating minimum 16A |
Contains fluorinated greenhouse gases |
Instead of a fuse, use a circuit breaker |
Select wire size based on the value of MCA

3 Electrical data

3 - 1 Electrical Data

FXZQ-A

Unit				Power supply		IFM	Power input [W]	
Model	Hz	Voltage	Voltage range	MCA	MFA	FLA	Cooling	Heating
FXZQ15A2VEB	50/60	220-240/220	MAX. 264/MAX. 242 MIN. 198/MIN. 198	0,3	16	0,2	43	36
FXZQ20A2VEB				0,3	16	0,2	43	36
FXZQ25A2VEB				0,3	16	0,2	43	36
FXZQ32A2VEB				0,4	16	0,3	45	38
FXZQ40A2VEB				0,4	16	0,3	59	53
FXZQ50A2VEB				0,6	16	0,5	92	86

Notes

1) Voltage range
   The units are suitable for use with electrical systems in which the voltage supplied to the unit terminals is not below or above the listed range limits.

2) The maximum allowable voltage that is unbalanced between phases is ·2·%.
3) MCA / MFA
   MCA = 1.25 x FLA
   MFA ≤ 4 x FLA
   The next lower standard fuse rating is minimum ·16· ampere.
4) Select the wire size according to the MCA.
5) Use a circuit breaker instead of a fuse.

Symbols

MCA: Minimum Circuit Ampere [A]
MFA: Maximum Fuse Ampere [A]
FLA: Full Load Ampere [A]
IFM: Indoor fan motor

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4 Safety device settings

4 - 1 Safety Device Settings

FXZQ-A

Safety devices		FXZQ-A
Fuse		250V 3.15A (ON PCB BOARD)
Fan motor thermal fuse	°C	---
Fan motor thermal protector	°C	---
Drain pump fuse	°C	---

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5 Options

5 - 1 Options

FXZQ-A

Option kit	Product name	New/Existing	Compatibility: BYFQ60B2W1 BYFQ60B3W1	Compatibility: BYFQ60C2W1W	Compatibility: BYFQ60C2W1S	Compatibility: BYFQ60C4W1W	Compatibility: BYFQ60C4W1S	Availability: VRV (FXZQ15A2VEB FXZQ20A2VEB FXZQ25A2VEB FXZQ32A2VEB FXZQ40A2VEB FXZQ50A2VEB)	Availability: SA (FFQ25C2VEB FFQ35C2VEB FFQ50C2VEB FFQ60C2VEB)
Decoration panel - Standard	BYFQ60B2W1	New	-	-	-	-	-	✓	✓
Decoration panel - Standard	BYFQ60B3W1	New	-	-	-	-	-	✓	✓
Decoration panel - White	BYFQ60C2W1W	New	-	-	-	-	-	✓	✓
Decoration panel - Silver	BYFQ60C2W1S	New	-	-	-	-	-	✓	✓
Decoration panel - White	BYFQ60C4W1W ⑬	New	-	-	-	-	-	✓	✓
Decoration panel - Silver	BYFQ60C4W1S ⑬	New	-	-	-	-	-	✓	✓
Conversion wire harness	EKRS22	New	No	No	No	Yes	Yes	✓	✓
Sensor kit - White	BRYQ60A2W ③	New	No	Yes	No	Yes	No	✓	✓
Sensor kit - Silver	BRYQ60A2S ③	New	No	No	Yes	No	Yes	✓	✓
Air discharge outlet sealing member	BDBHQ44C60	New	Yes	Yes	Yes	Yes	Yes	✓	✓
Panel spacer	KDBQ44B60	Existing	Yes	No	No	No	No	✓	✓
Long-life replacement filter	KAF441C60	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Fresh air intake kit	KDDQ44XA60	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Remote control | Infrared type | HP	BRC7EB530W ① ②	New	Yes	No	No	No	No	✓	✓
Remote control | Infrared type | -HP- | White	BRC7F530W ① ②	New	No	Yes	No	Yes	No	✓	✓
Remote control | Infrared type | -HP- | Silver	BRC7F530S ① ②	New	No	No	Yes	No	Yes	✓	✓
Wired remote control	BRC1D528 ②	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Wired remote control	BRC1E53A7 ⑧/BRC1E53B7 ⑨/BRC1E53C7 ⑩ ⑪	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Wired remote control	BRC1H52W/S/K, BRC1H82W/S	New	Yes	Yes	Yes	Yes	Yes	✓	✓
Simplified remote control (with operation mode selector button)	BRC2E52C ⑤ ⑪	New	Yes	Yes	Yes	Yes	Yes	✓	✓
Simplified remote control (without operation mode selector button)	BRC3E52C ⑤ ⑪	New	Yes	Yes	Yes	Yes	Yes	✓	✓
Central remote control	DCS302B51	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Unified ON/OFF controller	DCS301B51	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Schedule timer	DST301B51	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Wiring adaptor for electrical appendices	KRP1B57	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Wiring adaptor for electrical appendices	KRP2A526	Existing	Yes	Yes	Yes	Yes	Yes	✓	×
Wiring adaptor for electrical appendices	KRP4A53	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Wiring adaptor (hour meter)	EKRP1B2	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Installation box for adaptor PCB	KRP1B101, KRP1BA101	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Remote sensor	KRCS01-4B	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
PCB for multi-tenant indoor units	DTA114A61	Existing	Yes	Yes	Yes	Yes	Yes	✓	×
iTouch Controller	DCS601C51	Existing	Yes	Yes	Yes	Yes	Yes	✓	✓
Digital input adaptor	BRP7A53 ⑥ ⑫	New	Yes	Yes	Yes	Yes	Yes	✓	✓

Notes

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 -EKPCCAB3- 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.

⑥ Only possible in combination with remote control -BRC2/3E52C,BRC1E53A/B/C7, BRC1H52W/S/K, BRC1H82W/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 This option needs to be installed together with installation box -KRP1B101/KRP1BA101-.
⑬ Only possible in combination with -EKRS22-

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6 Capacity tables

6 - 1 Cooling Capacity Tables

FXZQ-A

TC: Total capacity: kW
SHC: Sensible heat capacity: kW

Unit size	Outdoor°CDB	14.0WB 20.0DB		16.0WB 23.0DB		18.0WB 26.0DB		19.0WB 27.0DB		20.0WB 28.0DB		22.0WB 30.0DB		24.0WB 32.0DB	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
15	35.0	1.1	1.1	1.4	1.3	1.6	1.4	1.7	1.4	1.8	1.4	1.8	1.3	1.9	1.2
20	35.0	1.5	1.3	1.8	1.5	2.1	1.7	2.2	1.7	2.3	1.6	2.4	1.6	2.4	1.5
25	35.0	1.9	1.5	2.3	1.8	2.6	2.0	2.8	2.0	3.0	2.0	3.0	1.9	3.1	1.8
32	35.0	2.4	1.9	2.9	2.1	3.4	2.4	3.6	2.4	3.8	2.4	3.9	2.3	4.0	2.2
40	35.0	3.0	2.5	3.6	2.9	4.2	3.2	4.5	3.3	4.7	3.3	4.9	3.1	5.0	3.0
50	35.0	3.8	3.1	4.5	3.6	5.2	4.0	5.6	4.1	5.9	4.2	6.0	4.0	6.2	3.9

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6 Capacity tables

6 - 2 Heating Capacity Tables

FXZQ-A

Unit size	Outdoor air temp.		Indoor air temp.: °CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
15	7.0	6.0	2.0	2.0	1.9	1.8	1.8	1.7
20	7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
25	7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
32	7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
40	7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
50	7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5

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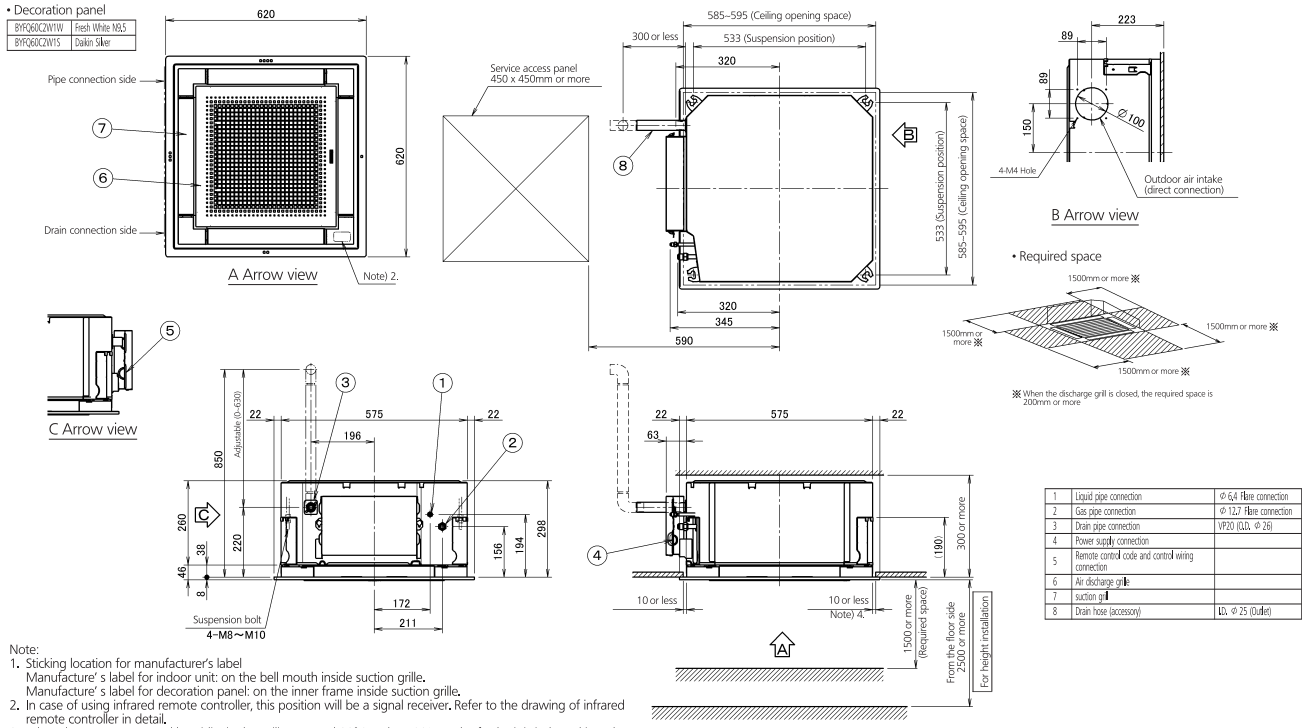
7 Dimensional drawings

7 - 1 Dimensional Drawings

FXZQ-A



1	Liquid pipe connection	Ø 6,4 Flare connection
2	Gas pipe connection	Ø 12,7 Flare connection
3	Drain pipe connection	VP20 (I.D. Ø 26)
4	Power supply connection	
5	Remote control code and control wiring connection	
6	Air discharge grille	
7	suction grill	
8	Drain hose (accessory)	I.D. Ø 25 (Outlet)

Note:
1. Sticking location for manufacturer's label
   Manufacture' s label for indoor unit: on the bell mouth inside suction grille.
   Manufacture' s label for decoration panel: on the inner frame inside suction grille.
2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared 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 glasswool or polyethylene form) 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.

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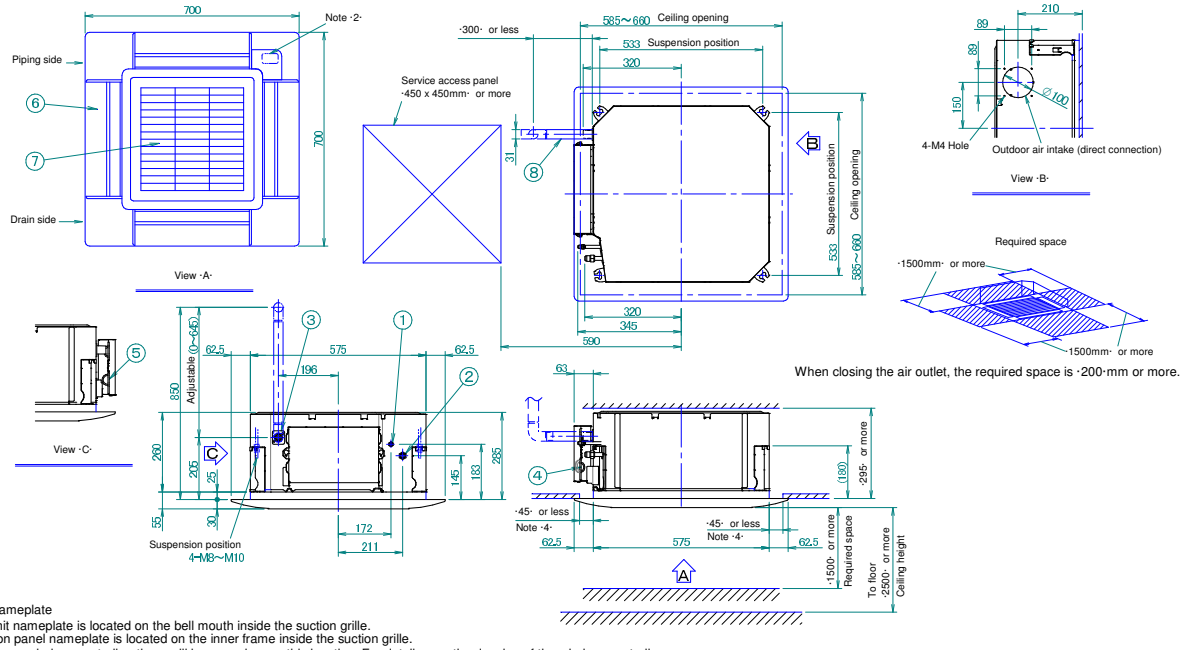
7 Dimensional drawings

7 - 2 Dimensional Drawings with Accessories

FXZQ-A

Decoration panel

BYFQ60B2W1	WHITE Ral 9010
BYFQ60B3W1	WHITE Ral 9010



Notes

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 ≥·10·mm) 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 ·660·mm square ceiling opening, keep the clearance of ·45·mm or less between the indoor unit and the ceiling opening, so that the panel overlap allowance can be ensured.

Item	Part name
①	Liquid pipe connection ·Ø 6.4·
②	Gas pipe connection ·Ø 12.7·
③	Drain outlet ·VP20· Outer: ·Ø26·
④	Power supply

Item	Part name
⑤	Remote control wiring intake
⑥	Air discharge grille
⑦	Air suction grille
⑧	Drain hose Inner: ·Ø25·

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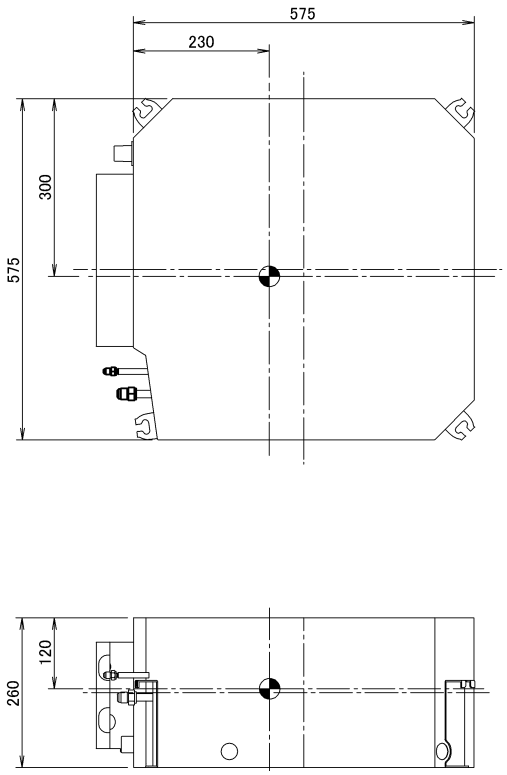
8 Centre of gravity

8 - 1 Centre of Gravity

FXZQ-A



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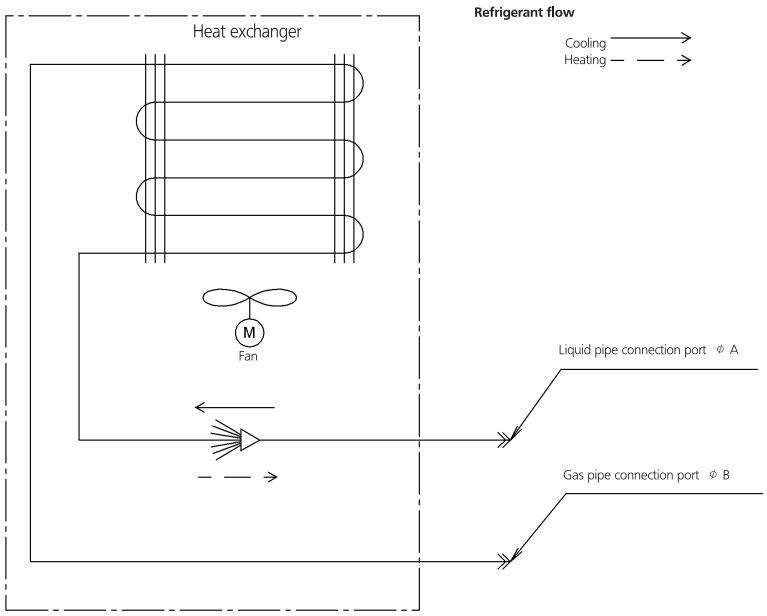
9 Piping diagrams

9 - 1 Piping Diagrams

FXZQ-A



Model	A	B
FXZQ15A	6.35	12.7
FXZQ20A		
FXZQ25A		
FXZQ32A		
FXZQ40A		
FXZQ50A		

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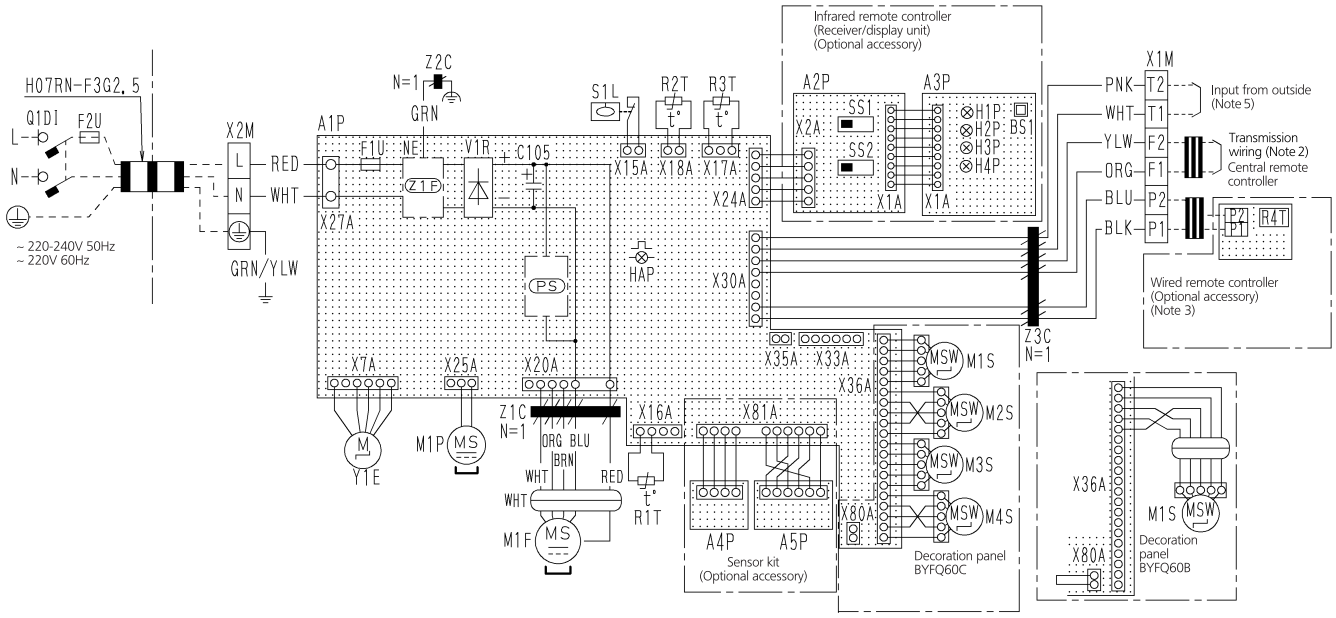
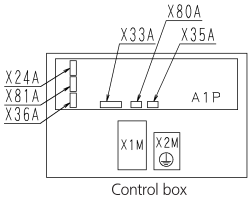
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXZQ-A





Indoor unit	
A1P	Printed circuit board
C105	Capacitor (M1F)
F1U	Fuse (T, 3.15A, 250V)
HAP	Flashing lamp (service monitor-green)
M1F	Fan motor
M1P	Drain pump motor
M1S • M2S M3S • M4S	Swing motor
R1T	Thermistor (air)
R2T • R3T	Thermistor (coil)
S1L	Float switch
V1R	Diode bridge
X1M	Terminal block
X2M	Terminal block
Y1E	Electronic expansion valve
Z1F	Noise filter
Z1C	Ferrite core
Z2C	Ferrite core
Z3C	Ferrite core
PS	Switching power supply

Infrared remote controller (Receiver/display unit)	
A2P	Printed circuit board
A3P	Printed circuit board
BS1	Push button switch on PCB
H1P	Pilot lamp (on-red)
H2P	Pilot lamp (timer-green)
H3P	Pilot lamp (filter sign-red)
H4P	Pilot lamp (defrost-orange)
SS1	Selector switch (main/sub)
SS2	Selector switch (infrared address set)

Sensor kit	
A4P	Printed circuit board
A5P	Printed circuit board
Wired remote controller	
R4T	Thermistor (air)
Connector for optional parts	
X24A	Connector (Infrared remote controller)
X33A	Connector (adapter for wiring)
X35A	Connector (Power supply for adapter)
X81A	Connector (Sensor kit)
Power supply	
F2U	Fuse
Q1DI	Earth leak detector

Notes

1. ▭▭ : Terminal block, ⊂⊃ , ▯- : Connector, ▮▮▮ : Field wiring
2. In case of using central remote controller, connect it to the unit in accordance with the attached installation manual.
3. In case of main/sub changeover, see the installation manual attached to remote controller.
4. Symbols show as follows: BLK:Black RED:Red BLU:Blue WHT:White YLW:Yellow GRN:Green ORG:Orange BRN:Brown PNK:Pink.
5. When connecting the input wiring from outside, forced off or on/off control operation can be selected by the remote controller See installation manual for more details.

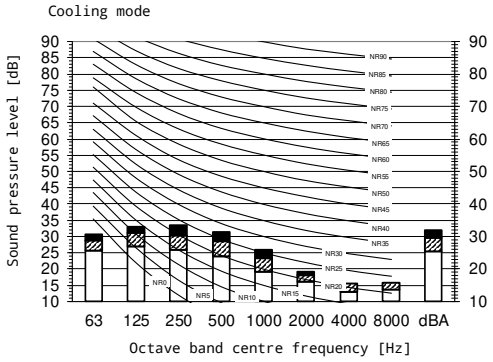
3D081396A

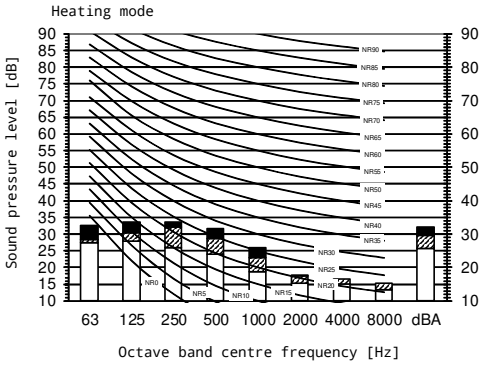
11 Sound data

11 - 1 Sound Pressure Spectrum

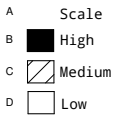
11

FXZQ15-20A





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



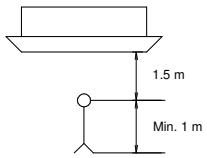
Cooling Total dBA

A	B	C	D
dBA	32.0	29.5	25.5

Heating Total dBA

A	B	C	D
dBA	32.0	29.5	25.5

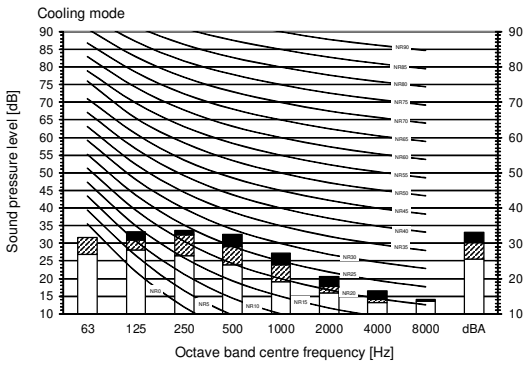
Location of microphone

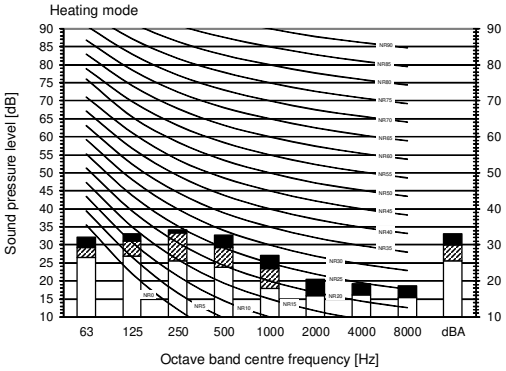


Notes
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D082566B

FXZQ25A





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

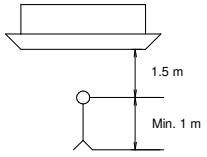
Cooling Total dBA

A	B	C	D
dBA	33.0	30.0	25.5

Heating Total dBA

A	B	C	D
dBA	33.0	30.0	25.5

Location of microphone



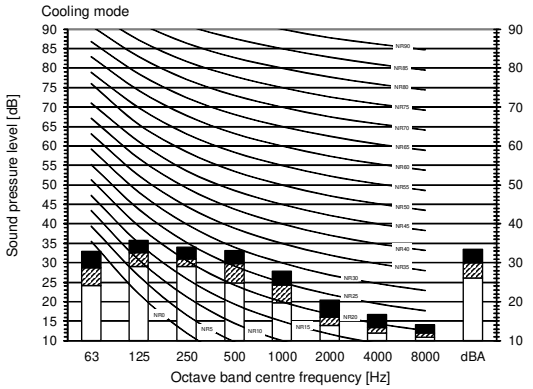
Notes
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

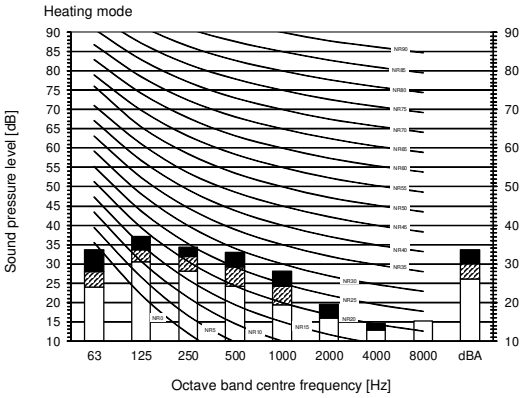
3D082567B

11 Sound data

11 - 1 Sound Pressure Spectrum

FXZQ32A





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

A Scale
B High
C Medium
D Low

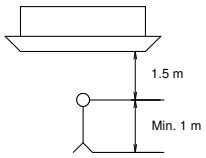
Cooling Total dBA

A	B	C	D
dBA	33.5	30.0	26.0

Heating Total dBA

A	B	C	D
dBA	33.5	30.0	26.0

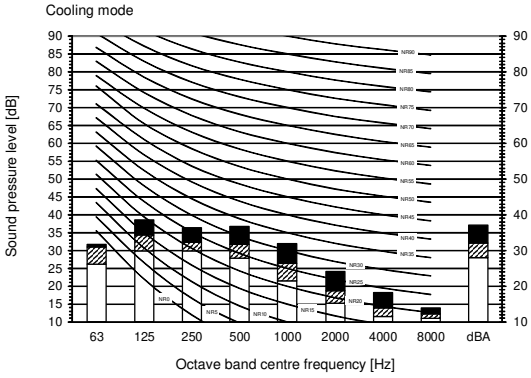
Location of microphone

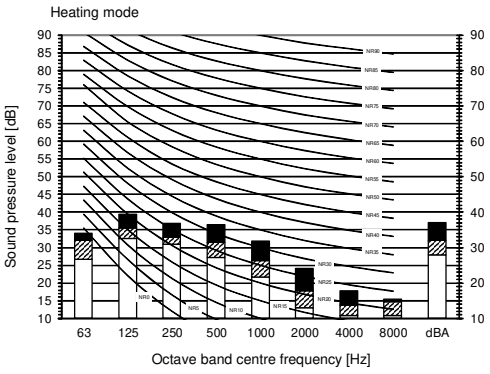


Notes
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D082568B

FXZQ40A





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

A Scale
B High
C Medium
D Low

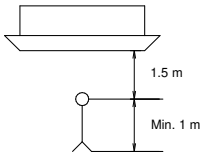
Cooling Total dBA

A	B	C	D
dBA	37.0	32.0	28.0

Heating Total dBA

A	B	C	D
dBA	37.0	32.0	28.0

Location of microphone



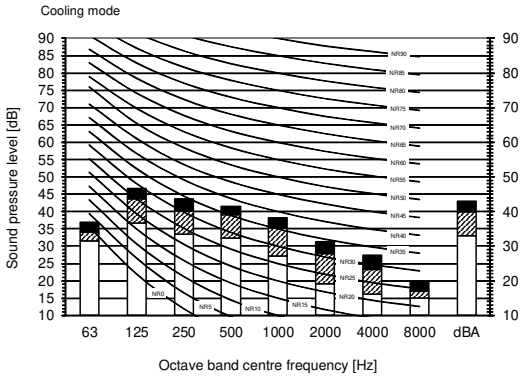
Notes
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

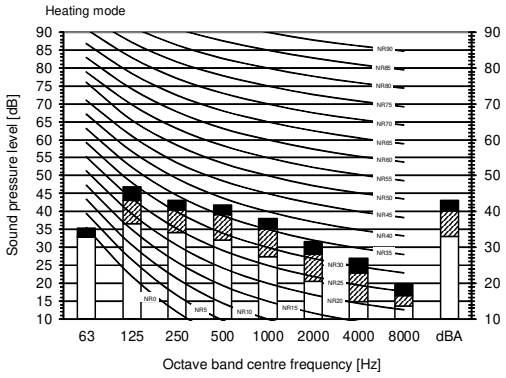
3D082569B

11 Sound data

11 - 1 Sound Pressure Spectrum

FXZQ50A





Legend

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

A	Scale	
B	High	
C	Medium	
D	Low	

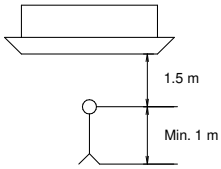
Cooling — Total dBA

A	B	C	D
dBA	43.0	40.0	33.0

Heating — Total dBA

A	B	C	D
dBA	43.0	40.0	33.0

Location of microphone



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

3D082570B

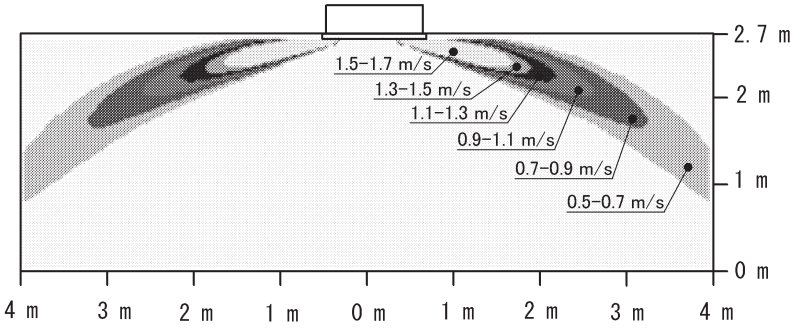
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXZQ15A

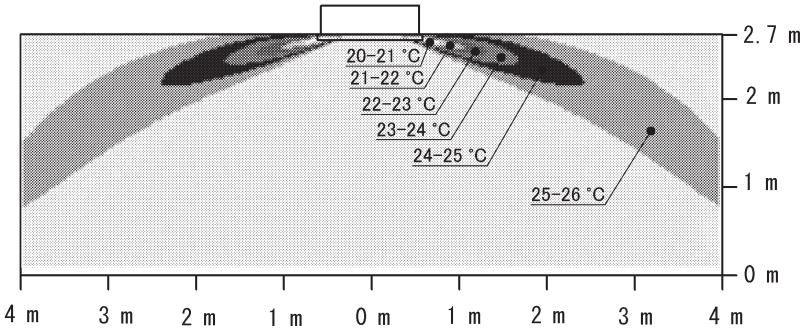
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal

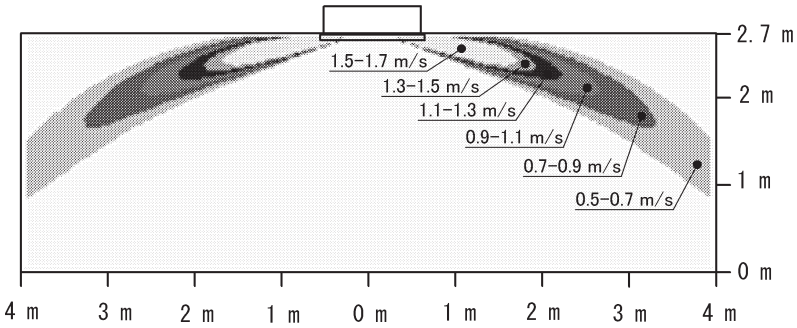


4D083823

FXZQ20A

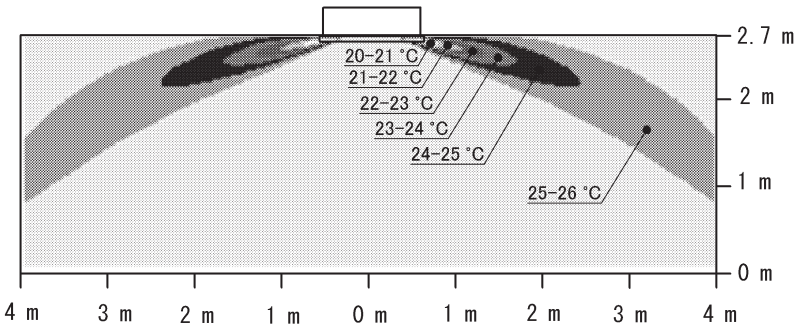
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D083824

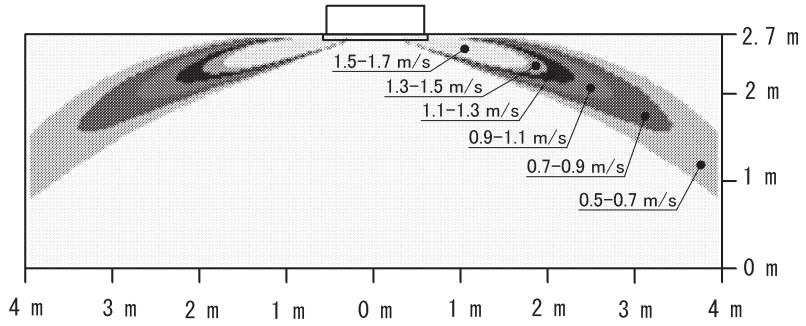
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXZQ25A

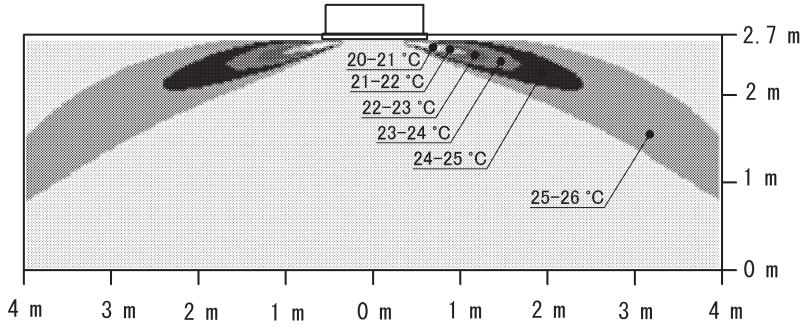
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal

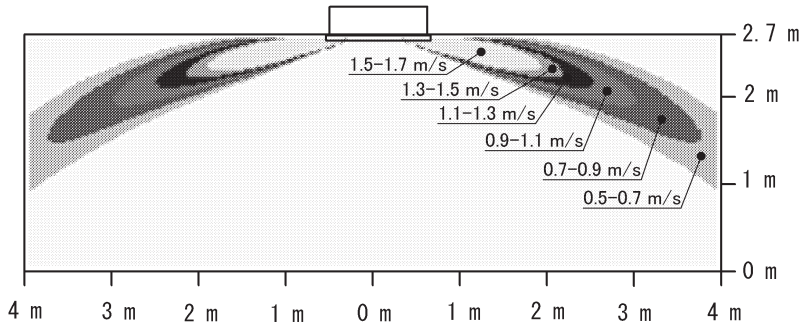


4D083825

FXZQ32A

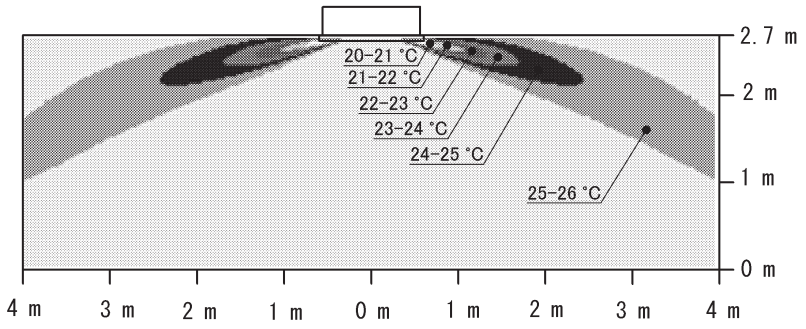
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D083826

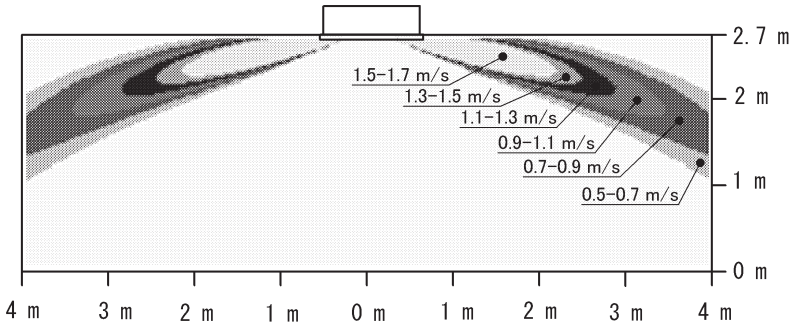
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXZQ40A

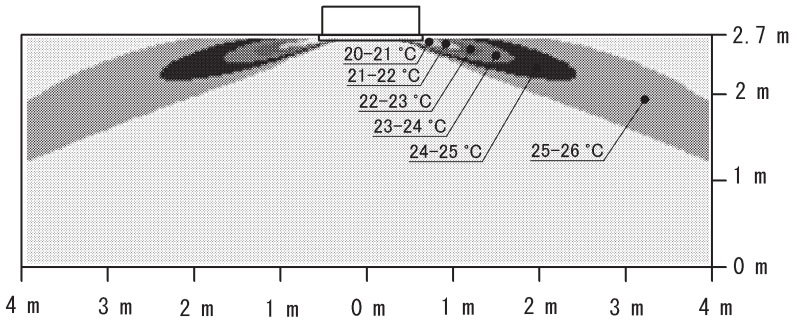
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal

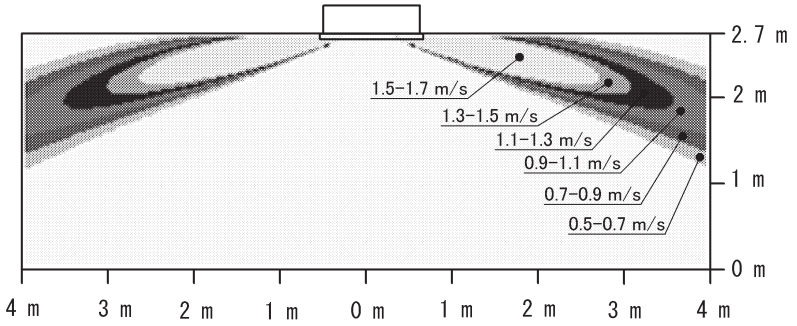


4D083827

FXZQ50A

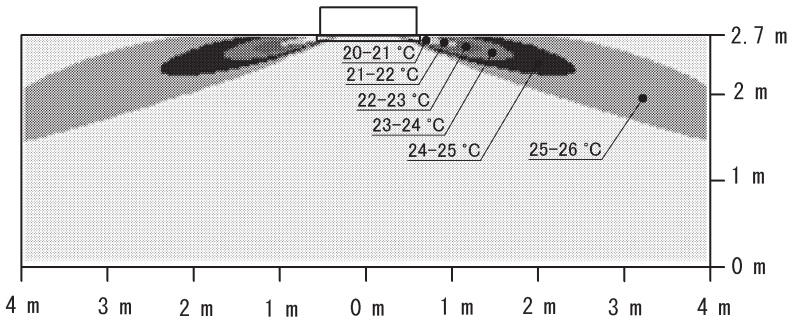
Cooling air velocity distribution

All round air discharge, air flow direction: horizontal



Cooling air temperature distribution

All round air discharge, air flow direction: horizontal



4D083828

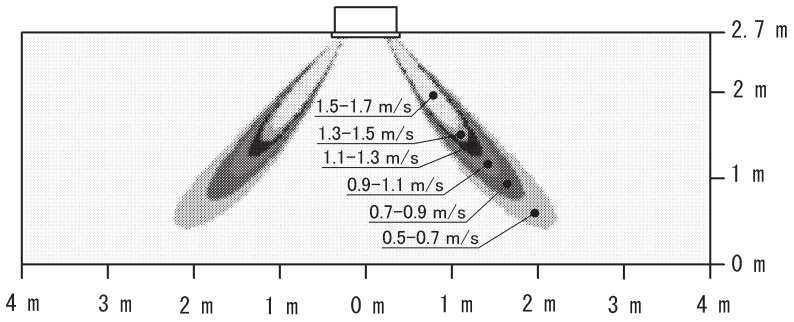
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FXZQ15A

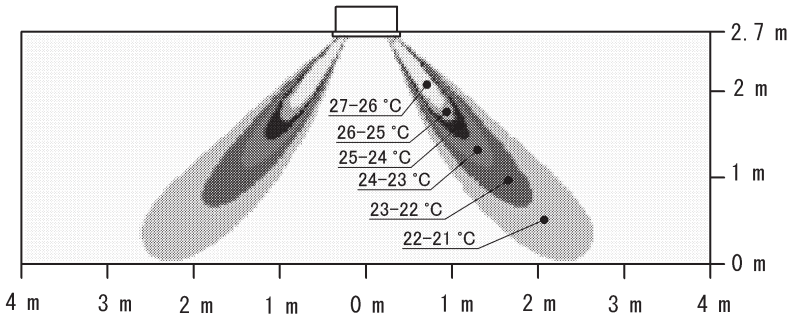
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal

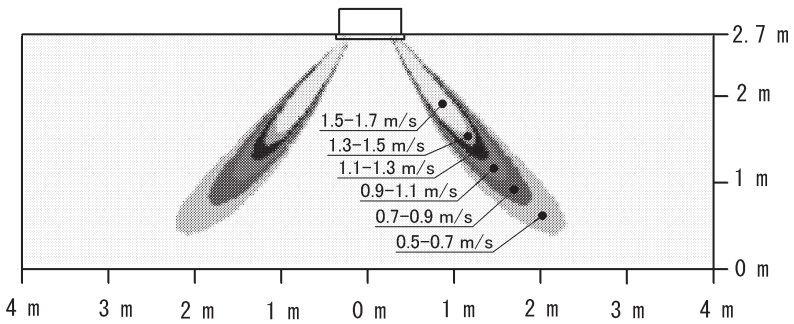


4D083833

FXZQ20A

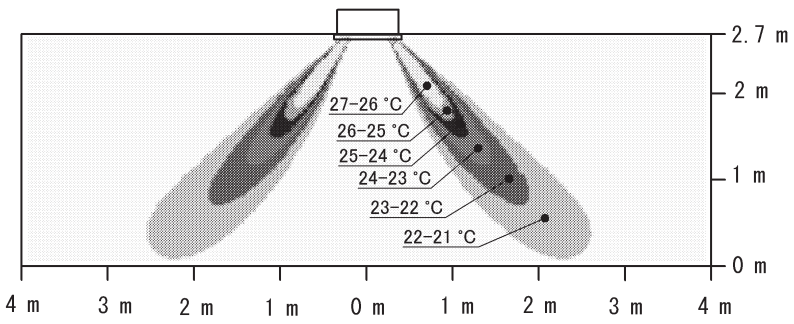
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D083834

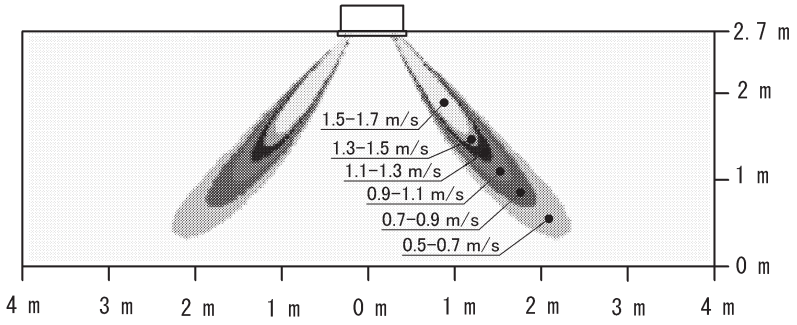
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FXZQ25A

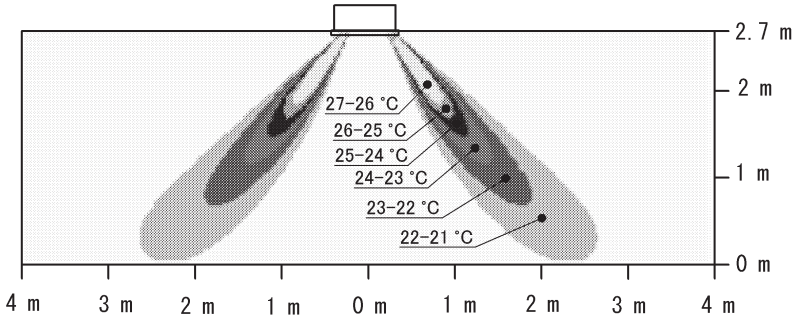
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal

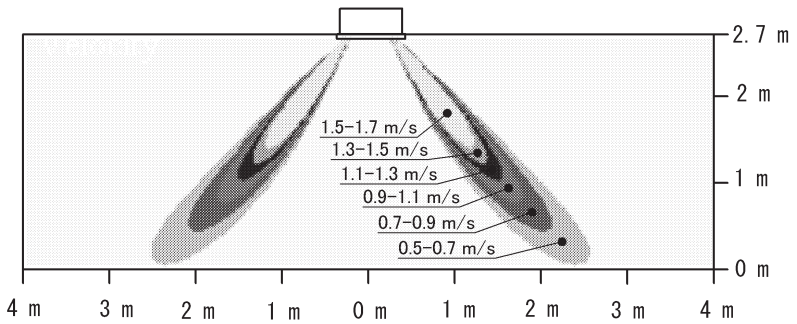


4D083835

FXZQ32A

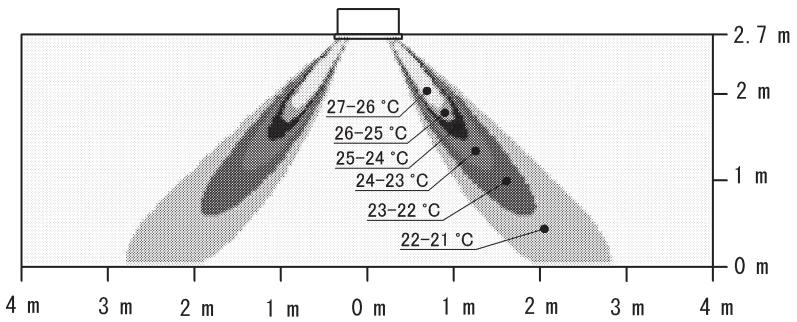
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D083836

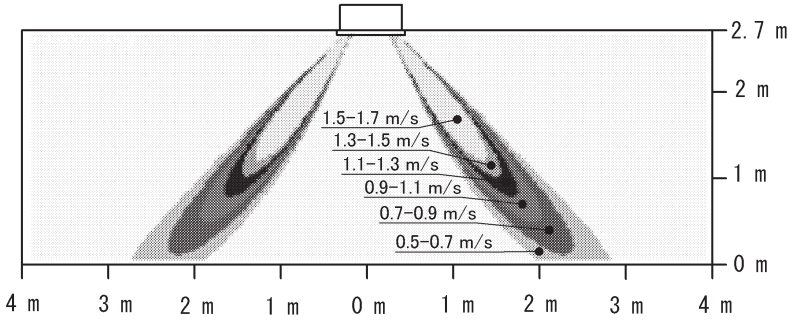
12 Air flow patterns

12 - 2 Air Flow Pattern - Heating

FXZQ40A

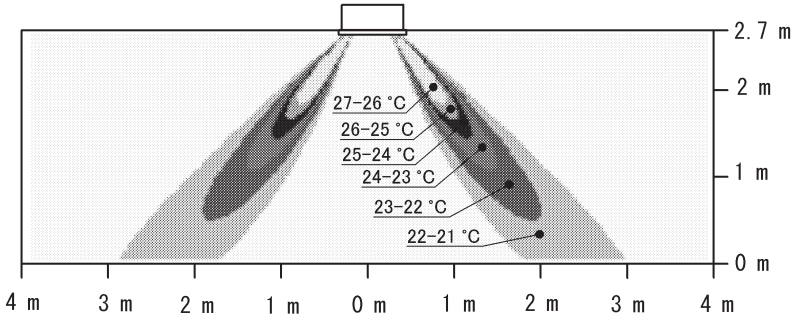
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal

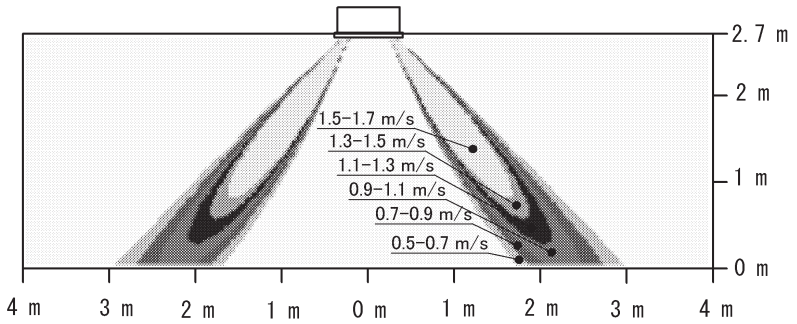


4D083837

FXZQ50A

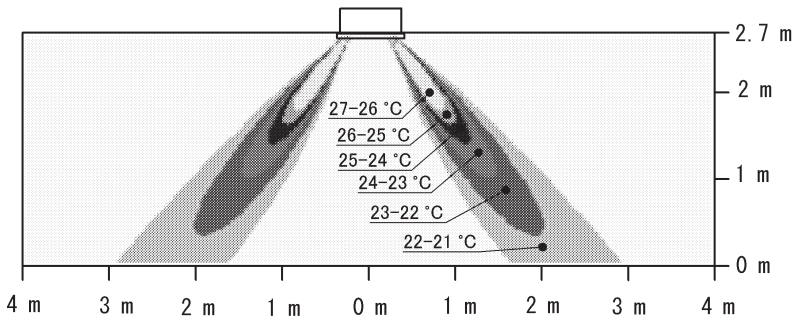
Heating air velocity distribution

All round air discharge, air flow direction: horizontal



Heating air temperature distribution

All round air discharge, air flow direction: horizontal



4D083838

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