Round flow cassette Air Conditioning Technical Data

FXFA-A

FXFA20A2VEB
FXFA25A2VEB
FXFA32A2VEB
FXFA40A2VEB
FXFA50A2VEB
FXFA63A2VEB
FXFA80A2VEB
FXFA100A2VEB
FXFA125A2VEB

EEDEN22

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FXFA-A

1 Features

1 - 1 FXFA-A

360° air discharge for optimum efficiency and comfort

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- Optimised design for R-32 refrigerant
- Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs.
- Two optional intelligent sensors improve energy efficiency and comfort
- Widest choice ever in decoration panels: designer panels in white (RAL9010) and black (RAL9005) and standard panels in white (RAL9010) with grey louvers or full white
- Bigger flaps and unique swing pattern improve equal air distribution
- Individual flap control: flexibility to suit every room layout without changing the location of the unit!
- Lowest installation height in the market: 214mm for class 20-63
- Optional fresh air intake
- Standard drain pump with 675mm lift increases flexibility and installation speed

Auto-cleaning filter (optional)

Onecta app (optional) (optional)

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 (5 steps + auto)

Dry programme

Air filter (pre filter)

Weekly timer

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

Wired remote control (required option)

Centralised control (optional)

Auto-restart

Self diagnosis

Multi tenant

Drain pump kit (standard)

2 Specifications

1 - 1 FXFA-A

Technical specifications				FXFA20A	FXFA25A	FXFA32A	FXFA40A	FXFA50A	FXFA63A
Cooling capacity	Sensible capacity	At high fan speed	kW	1.50	2.00	2.50	3.10	3.80	4.80
		At medium high fan speed	kW	1.40	1.80	2.40	2.90	3.50	4.30
		At medium fan speed	kW	1.30	1.70	2.10	2.60	3.10	3.80
		At medium low fan speed	kW	1.20	1.50	1.90	2.50	2.90	3.50
		At low fan speed	kW	1.10	1.40	1.80	2.20	2.60	3.10
	Latent capacity	At high fan speed	kW	0.70	0.80	1.10	1.40	1.80	2.30
		At medium high fan speed	kW	0.70	0.80	1.00	1.30	1.70	2.10
		At medium fan speed	kW	0.60	0.80	1.00	1.30	1.60	2.00
		At medium low fan speed	kW	0.60	0.80	1.00	1.20	1.50	1.80
		At low fan speed	kW	0.60	0.80	0.90	1.20	1.40	1.60
	Total capacity	At high fan speed	kW	2.20	2.80	3.60	4.50	5.60	7.10
		At medium high fan speed	kW	2.10	2.60	3.40	4.20	5.20	6.40
		At medium fan speed	kW	1.90	2.50	3.10	3.90	4.70	5.80
		At medium low fan speed	kW	1.80	2.30	2.90	3.70	4.40	5.30
		At low fan speed	kW	1.70	2.20	2.70	3.40	4.00	4.70
Heating capacity	Total capacity	At high fan speed	kW	2.50	3.20	4.00	5.00	6.30	8.00
		At medium high fan speed	kW	2.30	2.90	3.70	4.60	5.80	7.10
		At medium fan speed	kW	2.10	2.70	3.40	4.20	5.10	6.30
		At medium low fan speed	kW	1.90	2.50	3.10	3.90	4.90	5.80
		At low fan speed	kW	1.80	2.30	2.90	3.60	4.10	5.00
Power input - 50Hz	Cooling	At high fan speed	kW	0.017 (1)			0.018 (1)	0.023 (1)	0.028 (1)
		At medium high fan speed	kW	0.015 (1)			0.016 (1)	0.020 (1)	0.022 (1)
		At medium fan speed	kW	0.013 (1)			0.014 (1)	0.017 (1)	0.018 (1)
		At medium low fan speed	kW	0.012 (1)				0.014 (1)	0.015 (1)
		At low fan speed	kW	0.011 (1)				0.012 (1)	
	Heating	At high fan speed	kW	0.017 (1)			0.018 (1)	0.023 (1)	0.028 (1)
		At medium high fan speed	kW	0.015 (1)			0.016 (1)	0.020 (1)	0.022 (1)
		At medium fan speed	kW	0.013 (1)			0.014 (1)	0.017 (1)	0.018 (1)
		At medium low fan speed	kW	0.012 (1)				0.014 (1)	0.015 (1)
		At low fan speed	kW	0.011 (1)				0.012 (1)	
Power input - 60Hz	Cooling	At high fan speed	kW	0.017 (1)			0.018 (1)	0.023 (1)	0.028 (1)
	Heating	At high fan speed	kW	0.017 (1)			0.018 (1)	0.023 (1)	0.028 (1)
Dimensions	Unit	Height	mm	204					
		Width	mm	840					
		Depth	mm	840					
	Packed unit	Height	mm	220					
Dimensions	Packed unit	Width	mm	882					
		Depth	mm	882					
Weight	Unit		kg	18			19	21	
	Packed unit		kg	21			22	24	
Casing	Material			Galvanised steel plate					
Heat exchanger	Inside length		mm	2,134				2,090	
	Outside length		mm	2,181				2,184	
	Rows	Quantity		2				3	
	Fin pitch		mm	1.20					
	Passes	Quantity		4			6	12	
	Face area		m^2	0.278			0.366	0.371	
	Stages	Quantity		9			12		
	Tube type			Ø5 HI-XA					
	Fin	Type		Cross fin coil (Multi slit fins and Ø5HI-XA tubes)					

2 Specifications

1 - 1 FXFA-A

Technical specifications					FXFA20A	FXFA25A	FXFA32A	FXFA40A	FXFA50A	FXFA63A
Fan	Type				Turbo fan					
	Quantity				1					
	Air flow rate - 50Hz	Cooling	At high fan speed	m^3/min	12.8			14.8	15.1	16.6
			At medium high fan speed	m^3/min	11.8			13.7	14.0	15.0
			At medium fan speed	m^3/min	10.7			12.6	12.8	13.3
			At medium low fan speed	m^3/min	9.8			11.5	11.8	12.0
			At low fan speed	m^3/min	8.9			10.4	10.7	
		Heating	At high fan speed	m^3/min	12.8			14.8	15.1	16.6
			At medium high fan speed	m^3/min	11.8			13.7	14.0	15.0
			At medium fan speed	m^3/min	10.7			12.6	12.8	13.3
			At medium low fan speed	m^3/min	9.8			11.5	11.8	12.0
			At low fan speed	m^3/min	8.9			10.4	10.7	
	Air flow rate - 60Hz	Cooling	At high fan speed	cfm	452			523	533	586
			At medium high fan speed	cfm	417			484	494	530
			At medium low fan speed	cfm	346			406	417	424
			At medium fan speed	cfm	378			445	452	470
			At low fan speed	cfm	314			367	378	
		Heating	At high fan speed	cfm	452			523	533	586
			At medium high fan speed	cfm	417			484	494	530
			At medium fan speed	cfm	378			445	452	470
			At medium low fan speed	cfm	346			406	417	424
			At low fan speed	cfm	314			367	378	
Sound power level	Cooling	At high fan speed		dBA	49.0			51.0		53.0
Sound pressure level	Cooling	At high fan speed		dBA	31.0			33.0		35.0
		At medium high fan speed		dBA	30.0			32.0		34.0
		At medium fan speed		dBA	29.0			31.0		33.0
		At medium low fan speed		dBA	29.5			30.0		32.0
		At low fan speed		dBA	28.0			29.0		30.0
	Heating	At high fan speed		dBA	31.0			33.0		35.0
		At medium high fan speed		dBA	30.0			32.0		34.0
		At medium fan speed		dBA	29.0			31.0		33.0
		At medium low fan speed		dBA	29.5			30.0		32.0
		At low fan speed		dBA	28.0			29.0		30.0
Fan motor	Quantity				1					
	Speed	Steps			5					
Refrigerant	Type				R-32					
	GWP				675.0					
Piping connections	Liquid	Type			Flare connection					
		OD		mm	6					
	Gas	Type			Flare connection					
		OD		mm	9.52			12.70		
	Drain				VP25 (O.D. 32 / I.D. 25)					
	Heat insulation				Foamed polystyrene / Foamed polyethylene					
	Sound absorbing insulation				Foamed polyurethane					
Decoration panel	Model				BYCQ140E2W1 / BYCQ140E2W1W / BYCQ140E2W1B					
	Dimensions	Height		mm	65					
		Width		mm	950					
		Depth		mm	950					
	Weight			kg	5.5					
Decoration panel 2	Model				BYCQ140E2GFW1 / BYCQ140E2GFW1B					
	Dimensions	Height		mm	148					
		Width		mm	950					
		Depth		mm	950					
	Weight			kg	10.3					
Decoration panel 3	Model				BYCQ140E2P / BYCQ140E2PB					
	Dimensions	Height		mm	106					
		Width		mm	950					
		Depth		mm	950					
	Weight			kg	6.5					
Air filter	Type				Resin net					

2 Specifications

1 - 1 FXFA-A

Technical specifications			FXFA20A	FXFA25A	FXFA32A	FXFA40A	FXFA50A	FXFA63A
Safety devices	Item	01	PC board fuse					
		02	Fan motor overcurrent protector					
Control systems	Infrared remote control		BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB					
	Wired remote control		BRC1H52W/S/K					

Technical specifications				FXFA80A	FXFA100A	FXFA125A
Cooling capacity	Sensible capacity	At high fan speed	kW	6.10	7.70	9.70
		At medium high fan speed	kW	5.50	6.80	8.50
		At medium fan speed	kW	5.00	5.80	7.70
		At medium low fan speed	kW	4.20	4.90	6.90
		At low fan speed	kW	3.60	3.80	6.00
	Latent capacity	At high fan speed	kW	2.90	3.50	4.30
		At medium high fan speed	kW	2.70	3.20	3.90
		At medium fan speed	kW	2.50	2.90	3.70
		At medium low fan speed	kW	2.20	2.40	3.40
		At low fan speed	kW	1.80	2.00	3.00
	Total capacity	At high fan speed	kW	9.00	11.20	14.00
		At medium high fan speed	kW	8.20	10.00	12.40
		At medium fan speed	kW	7.50	8.70	11.40
		At medium low fan speed	kW	6.40	7.30	10.30
		At low fan speed	kW	5.40	5.80	9.00
Heating capacity	Total capacity	At high fan speed	kW	10.00	12.50	16.00
		At medium high fan speed	kW	9.10	10.90	14.10
		At medium fan speed	kW	8.30	9.30	12.80
		At medium low fan speed	kW	7.10	7.70	11.30
		At low fan speed	kW	5.90	6.00	9.80
Power input - 50Hz	Cooling	At high fan speed	kW	0.045 (1)	0.078 (1)	0.103 (1)
		At medium high fan speed	kW	0.036 (1)	0.054 (1)	0.081 (1)
		At medium fan speed	kW	0.028 (1)	0.036 (1)	0.062 (1)
		At medium low fan speed	kW	0.020 (1)	0.022 (1)	0.045 (1)
		At low fan speed	kW	0.015 (1)		0.031 (1)
	Heating	At high fan speed	kW	0.045 (1)	0.078 (1)	0.103 (1)
		At medium high fan speed	kW	0.036 (1)	0.054 (1)	0.081 (1)
		At medium fan speed	kW	0.028 (1)	0.036 (1)	0.062 (1)
		At medium low fan speed	kW	0.020 (1)	0.022 (1)	0.045 (1)
		At low fan speed	kW	0.015 (1)		0.031 (1)
Power input - 60Hz	Cooling	At high fan speed	kW	0.045 (1)	0.078 (1)	0.103 (1)
	Heating	At high fan speed	kW	0.045 (1)	0.078 (1)	0.103 (1)
Dimensions	Unit	Height	mm	246		288
		Width	mm	840		
		Depth	mm	840		
	Packed unit	Height	mm	260		300
Dimensions	Packed unit	Width	mm	882		
		Depth	mm	882		
Weight	Unit		kg	24		26
	Packed unit		kg	27		29
Casing	Material			Galvanised steel plate		
Heat exchanger	Inside length		mm	2,090		
	Outside length		mm	2,184		
	Rows	Quantity		3		
	Fin pitch		mm	1.20		
	Passes	Quantity		14		17
	Face area		m^2	0.464		0.556
	Stages	Quantity		15		18
	Tube type			Ø5 HI-XA		
	Fin	Type		Cross fin coil (Multi slit fins and Ø5HI-XA tubes)		

2 Specifications

1 - 1 FXFA-A

Technical specifications					FXFA80A	FXFA100A	FXFA125A
Fan	Type				Turbo fan		
	Quantity				1		
	Air flow rate - 50Hz	Cooling	At high fan speed	m^3/min	23.3	28.8	33.0
			At medium high fan speed	m^3/min	21.7	25.1	30.2
			At medium fan speed	m^3/min	19.3	21.2	27.4
			At medium low fan speed	m^3/min	16.5	17.5	24.0
			At low fan speed	m^3/min	13.8		20.6
		Heating	At high fan speed	m^3/min	23.3	29.0	33.0
			At medium high fan speed	m^3/min	21.7	25.1	30.2
			At medium fan speed	m^3/min	19.3	21.2	27.4
			At medium low fan speed	m^3/min	16.5	17.5	24.0
			At low fan speed	m^3/min	13.8		20.6
	Air flow rate - 60Hz	Cooling	At high fan speed	cfm	823	1,017	1,165
			At medium high fan speed	cfm	766	886	1,067
			At medium low fan speed	cfm	583	618	848
			At medium fan speed	cfm	682	749	968
			At low fan speed	cfm	487		727
		Heating	At high fan speed	cfm	823	1,024	1,165
			At medium high fan speed	cfm	766	886	1,067
			At medium fan speed	cfm	682	749	968
			At medium low fan speed	cfm	583	618	848
			At low fan speed	cfm	487		727
Sound power level	Cooling	At high fan speed		dBA	55.0	60.0	61.0
Sound pressure level	Cooling	At high fan speed		dBA	38.0	43.0	45.0
		At medium high fan speed		dBA	36.0	41.0	43.0
		At medium fan speed		dBA	34.0	37.0	41.0
		At medium low fan speed		dBA	32.0	34.0	39.0
		At low fan speed		dBA	30.0		36.0
	Heating	At high fan speed		dBA	38.0	43.0	45.0
		At medium high fan speed		dBA	36.0	41.0	43.0
		At medium fan speed		dBA	34.0	37.0	41.0
		At medium low fan speed		dBA	32.0	34.0	39.0
		At low fan speed		dBA	30.0		36.0
Fan motor	Quantity				1		
	Speed	Steps			5		
Refrigerant	Type				R-32		
	GWP				675.0		
Piping connections	Liquid	Type			Flare connection		
		OD		mm	6	10	
	Gas	Type			Flare connection		
		OD		mm	12.70	15.90	
	Drain				VP25 (O.D. 32 / I.D. 25)		
	Heat insulation				Foamed polystyrene / Foamed polyethylene		
	Sound absorbing insulation				Foamed polyurethane		
Decoration panel	Model				BYCQ140E2W1 / BYCQ140E2W1W / BYCQ140E2W1B		
	Dimensions	Height		mm	65		
		Width		mm	950		
		Depth		mm	950		
	Weight			kg	5.5		
Decoration panel 2	Model				BYCQ140E2GFW1 / BYCQ140E2GFW1B		
	Dimensions	Height		mm	148		
		Width		mm	950		
		Depth		mm	950		
	Weight			kg	10.3		
Decoration panel 3	Model				BYCQ140E2P / BYCQ140E2PB		
	Dimensions	Height		mm	106		
		Width		mm	950		
		Depth		mm	950		
	Weight			kg	6.5		
Air filter	Type				Resin net		

2 Specifications

1 - 1 FXFA-A

Technical specifications			FXFA80A	FXFA100A	FXFA125A
Safety devices	Item	01	PC board fuse		
		02	Fan motor overcurrent protector		
Control systems	Infrared remote control		BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB		
	Wired remote control		BRC1H52W/S/K		

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

Standard accessories: Drain hose; Quantity: 1;

Standard accessories: Clamp for drain hose; Quantity: 1;

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

Standard accessories: Screws; Quantity: 4;

Standard accessories: Installation guide; Quantity: 1;

Standard accessories: Insulation for fitting; Quantity: 2;

Standard accessories: Sealing pads; Quantity: 1;

Standard accessories: Wire clamp material; Quantity: 7;

Standard accessories: Clamps; Quantity: 1;

Electrical specifications			FXFA20A	FXFA25A	FXFA32A	FXFA40A	FXFA50A	FXFA63A
Power supply	Phase		1~					
	Frequency	Hz	50/60					
	Voltage	V	220-240/220					
Current - 50Hz	Minimum circuit amps (MCA)	A	0.3				0.4	
	Maximum fuse amps (MFA)	A	6					
	Full load amps (FLA) Total	A	0.2				0.3	
Current - 60Hz	Minimum circuit amps (MCA)	A	0.3				0.4	
	Maximum fuse amps (MFA)	A	6					
	Full load amps (FLA) Total	A	0.2				0.3	

Electrical specifications			FXFA80A	FXFA100A	FXFA125A
Power supply	Phase		1~		
	Frequency	Hz	50/60		
	Voltage	V	220-240/220		
Current - 50Hz	Minimum circuit amps (MCA)	A	0.6	0.8	1.3
	Maximum fuse amps (MFA)	A	6		
	Full load amps (FLA) Total	A	0.5	0.7	1.2
Current - 60Hz	Minimum circuit amps (MCA)	A	0.6	0.8	1.3
	Maximum fuse amps (MFA)	A	6		
	Full load amps (FLA) Total	A	0.5	0.7	1.2

(1)Values are valid for the factory setting. |
(2)Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB |
(3)Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB |
(4)The sound power level is an absolute value indicating the power which a sound source generates. |
(5)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |
(6)Maximum allowable voltage range variation between phases is 2%. |
(7)MCA/MFA: MCA = 1.1 x FLA |
(8)Instead of a fuse, use a circuit breaker |
(9)Select wire size based on the value of MCA |
(10)BYCQ140E2W1: pure white standard panel with grey louvers; BYCQ140E2W1W: pure white standard panel with white louvers; BYCQ140E2W1B: black standard panel with black louvers. |
(11)The BYCQ140E2W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140E2W1W decoration panel in enviroments exposed to concentrations of dirt. |
(12)Contains fluorinated greenhouse gases

3 Electrical data

3 - 1 Electrical Data

FXFA-A

Model name	Power supply					IFM	Power input [W]	
Indoor unit	Hz	Voltage	Voltage range	MCA	MFA	FLA	Cooling	Heating
FXFA20A2VEB	50	220-240	Minimum ·50·Hz ·198·V Maximum ·50·Hz ·264·V	0,3	6	0,2	38	38
FXFA25A2VEB		220-240		0,3	6	0,2	38	38
FXFA32A2VEB		220-240		0,3	6	0,2	38	38
FXFA40A2VEB		220-240		0,3	6	0,2	38	38
FXFA50A2VEB		220-240		0,4	6	0,3	53	53
FXFA63A2VEB		220-240		0,4	6	0,3	61	61
FXFA80A2VEB		220-240		0,6	6	0,5	92	92
FXFA100A2VEB		220-240		0,8	6	0,7	115	115
FXFA125A2VEB		220-240		1,3	6	1,2	186	186
FXFA20A2VEB	60	220	Minimum ·50·Hz ·198·V Maximum ·60·Hz ·242·V	0,3	6	0,2	38	38
FXFA25A2VEB		220		0,3	6	0,2	38	38
FXFA32A2VEB		220		0,3	6	0,2	38	38
FXFA40A2VEB		220		0,3	6	0,2	38	38
FXFA50A2VEB		220		0,4	6	0,3	53	53
FXFA63A2VEB		220		0,4	6	0,3	61	61
FXFA80A2VEB		220		0,6	6	0,5	92	92
FXFA100A2VEB		220		0,8	6	0,7	115	115
FXFA125A2VEB		220		1,3	6	1,2	186	186

Notes

Voltage range

1) 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) Use a circuit breaker instead of a fuse.

3) Select the wire size according to the MCA.

4) The maximum allowable voltage that is unbalanced between phases is ·2·%.

5) MCA = 1.1 × FLA

Symbols

MCA: Minimum Circuit Ampere [A]

MFA: Maximum Fuse Ampere [A]

IFM: Indoor fan motor

FLA: Full Load Ampere [A]

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4 Safety device settings

4 - 1 Safety Device Settings

FXFA-A

Safety devices		FXFQ20-63BVEB FXFA20-63A2VEB	FXFQ80-125BVEB FXFA80-125A2VEB FXFN50-112A2VEB
PCB fuse		250V, 3.15A	250V, 3.15A
Fan motor overcurrent protection	Nominal	0.92A	1.49A
Fan motor thermal protector	Maximum	---	---
Drain pump fuse		---	---

4D121692B

5 Options

5 - 1 Options

FXFA-A

Option kit		Product name	Availability FXFA20-125A2VEB
Decoration panel	Standard	BYCQ140E2W1	✓
	White	BYCQ140E2W1W ②	✓
	Black	BYCQ140E2W1B	✓
Designer decoration panel		BYCQ140E2P	✓
Designer decoration panel	Black	BYCQ140E2PB	✓
Self-cleaning decoration panel (with fine filter)		BYCQ140E2GFW1 ③④⑤	✓
Self-cleaning decoration panel (with fine filter)	Black	BYCQ140E2GFW1B ③④⑤	✓
Long-life replacement filter		KAFP551K160	✓
Chamber [part of fresh air intake kit (·20·% fresh air)]		KDDP55C160-1 ⑥⑦	✓
Diffuser from chamber to duct [part of fresh air intake kit (·20·% fresh air)]		KDDP55D160-2 ⑥⑦	✓
Air discharge outlet sealing member		KDBHQ56B140 ⑥	✓
Sensor kit		BRYQ140B8 ⑧	✓
Sensor kit	Black	BRYQ140B8B ⑨	✓
Sensor kit (for designer decoration panel)		BRYQ140C8 ⑮	✓
Sensor kit (for designer decoration panel)	Black	BRYQ140C8B ⑯	✓
Wireless remote control		BRC7FA532F ⑥⑩⑭⑰	✓
Wireless remote control	Black	BRC7FA532FB ⑥⑪⑭⑰	✓
Wireless remote control (for designer decoration panel)		BRC7FB532F ⑥⑭⑮⑰	✓
Wireless remote control (for designer decoration panel)	Black	BRC7FB532FB ⑥⑭⑯⑰	✓
Wired remote control		BRC1H52W/S/K	✓
Wiring adaptor for electrical appendices ·1·		KRP1BA58 ⑥⑬	✓
Wiring adaptor for electrical appendices ·2·		KRP4A53 ⑥⑬	✓
Wiring adaptor (hour meter)		EKRP1C12 ⑥⑬	✓
Remote sensor		KRCS01-7B	✓
Installation box for adaptor PCB		KRP1H98A ⑥	✓
Installation box for adaptor PCB		KRP1BC101	✓
Central remote control		DCS302C51	✓
Unified ON/OFF controller		DCS301B51	✓
Electrical box with earth terminal (·2· blocks)		KJB212AA	✓
Electrical box with earth terminal (·3· blocks)		KJB311AA	✓
Schedule timer		DST301BA51	✓
iTouch Controller		DCS601C51	✓
Digital input adaptor		BRP7A53 ⑬⑭	✓
Intelligent Touch Manager		DCM601A51	✓
Intelligent Tablet Controller		DCC601A51	✓
Relay PCB		ERP01A51 ⑫	✓
Wire harness for external wireless temperature sensor		EKEWTSC-2 ⑱	✓
WLAN adaptor for smartphones		BRP069C51 ⑭	✓

For notes and symbols, refer to page ·2·.

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FXFA-A

Notes

① All options are kits
② This option has white insulation.
Be aware that dirt formation is more easily visible on white insulation.
It is recommended not to install this option in environments with a high concentration of dirt.
③ To be able to control option ·BYCQ140E2GFW1 / BYCQ140E2GFW1B·, controller ·BRC1H52· is required.
④ This option cannot be used with multi, and non-inverter split outdoor units.
⑤ This option is suitable for all applications, except for use in environments that are greasy, or have high humidity.
⑥ This option cannot be combined with ·BYCQ140E2GFW1 / BYCQ140E2GFW1B·.
⑦ Both parts of the fresh air intake kit are required for each unit.
⑧ Only possible in combination with ·BYCQ140E2W1 / BYCQ140E2W1W / BYCQ140E2GFW1·
⑨ Only possible in combination with ·BYCQ140E2W1B / BYCQ140E2GFW1B·
⑩ Only possible in combination with ·BYCQ140E2W1 / BYCQ140E2W1W·
⑪ Only possible in combination with ·BYCQ140E2W1B·
⑫ Requires installation box for adaptor PCB ·KRP1BC101·.
⑬ Requires installation box for adaptor PCB ·KRP1H98A·.
⑭ Only possible in combination with remote control ·BRC1H52·.
⑮ Only possible in combination with ·BYCQ140E2P·
⑯ Only possible in combination with ·BYCQ140E2PB·
⑰ The active airflow circulation function is not available for this controller.
⑱ ·EKEWTSC-2· is a wire harness for the connection of option ·K.RSS·.
·K.RSS· is not an official option. Sales for this option are an SBU responsibility.

3D128835C

6 Capacity tables

6 - 1 Cooling Capacity Tables

FXFA-A

		Indoor air temperature													
		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]	
Unit size	Fan speed	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
20	H	1,3	1,1	1,6	1,3	2,0	1,5	2,2	1,5	2,4	1,6	2,8	1,7	3,2	1,8
	HM	Correction factor ·0.94 × H·													
	M	Correction factor ·0.89 × H·													
	ML	Correction factor ·0.83 × H·													
	L	Correction factor ·0.77 × H·													
25	H	1,6	1,6	2,1	1,7	2,6	1,9	2,8	2,0	3,0	2,0	3,6	2,1	4,1	2,1
	HM	Correction factor ·0.94 × H·													
	M	Correction factor ·0.89 × H·													
	ML	Correction factor ·0.83 × H·													
	L	Correction factor ·0.77 × H·													
32	H	2,1	1,8	2,7	2,1	3,3	2,5	3,6	2,5	3,9	2,6	4,6	2,8	5,3	2,9
	HM	Correction factor ·0.95 × H·													
	M	Correction factor ·0.89 × H·													
	ML	Correction factor ·0.83 × H·													
	L	Correction factor ·0.77 × H·													
40	H	2,6	2,1	3,3	2,6	4,1	3,0	4,5	3,1	4,9	3,2	5,8	3,4	6,7	3,6
	HM	Correction factor ·0.94 × H·													
	M	Correction factor ·0.88 × H·													
	ML	Correction factor ·0.82 × H·													
	L	Correction factor ·0.76 × H·													
50	H	3,1	2,6	4,1	3,1	5,1	3,6	5,6	3,8	6,2	3,9	7,3	4,2	8,5	4,5
	HM	Correction factor ·0.93 × H·													
	M	Correction factor ·0.87 × H·													
	ML	Correction factor ·0.80 × H·													
	L	Correction factor ·0.73 × H·													
63	H	4,0	3,3	5,2	3,9	6,4	4,6	7,1	4,8	7,8	5,0	9,2	5,4	10,8	5,7
	HM	Correction factor ·0.91 × H·													
	M	Correction factor ·0.83 × H·													
	ML	Correction factor ·0.75 × H·													
	L	Correction factor ·0.67 × H·													
80	H	5,1	4,2	6,6	5,0	8,2	5,8	9,0	6,1	9,9	6,3	11,7	6,8	13,6	7,3
	HM	Correction factor ·0.91 × H·													
	M	Correction factor ·0.82 × H·													
	ML	Correction factor ·0.71 × H·													
	L	Correction factor ·0.61 × H·													
100	H	6,1	5,3	8,2	6,4	10,2	7,4	11,2	7,7	12,2	8,0	14,4	8,6	16,7	9,1
	HM	Correction factor ·0.89 × H·													
	M	Correction factor ·0.78 × H·													
	ML	Correction factor ·0.66 × H·													
	L	Correction factor ·0.53 × H·													
125	H	8,0	6,7	10,3	8,0	12,7	9,3	14,0	9,7	15,3	10,0	18,0	10,7	20,9	11,4
	HM	Correction factor ·0.89 × H·													
	M	Correction factor ·0.83 × H·													
	ML	Correction factor ·0.74 × H·													
	L	Correction factor ·0.64 × H·													

Notes

1) TC: Total capacity [kW]
SHC: Sensible heat capacity [kW]

2) Outdoor temperature ·35·°C DB

3D129252

6 Capacity tables

6 - 2 Heating Capacity Tables

FXFA-A

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
20	H	2,9	2,7	2,5	2,4	2,3	2,1
	MH	Correction factor ·0.93 × H·					
	M	Correction factor ·0.86 × H·					
	ML	Correction factor ·0.79 × H·					
	L	Correction factor ·0.72 × H·					
25	H	3,7	3,5	3,2	3,1	2,9	2,7
	MH	Correction factor ·0.93 × H·					
	M	Correction factor ·0.86 × H·					
	ML	Correction factor ·0.79 × H·					
	L	Correction factor ·0.72 × H·					
32	H	4,7	4,3	4,0	3,8	3,7	3,3
	MH	Correction factor ·0.93 × H·					
	M	Correction factor ·0.86 × H·					
	ML	Correction factor ·0.79 × H·					
	L	Correction factor ·0.72 × H·					
40	H	5,8	5,4	5,0	4,8	4,6	4,2
	MH	Correction factor ·0.93 × H·					
	M	Correction factor ·0.87 × H·					
	ML	Correction factor ·0.80 × H·					
	L	Correction factor ·0.73 × H·					
50	H	7,4	6,8	6,3	6,0	5,8	5,3
	MH	Correction factor ·0.93 × H·					
	M	Correction factor ·0.86 × H·					
	ML	Correction factor ·0.79 × H·					
	L	Correction factor ·0.72 × H·					
63	H	9,4	8,7	8,0	7,7	7,3	6,7
	MH	Correction factor ·0.90 × H·					
	M	Correction factor ·0.81 × H·					
	ML	Correction factor ·0.73 × H·					
	L	Correction factor ·0.65 × H·					
80	H	11,7	10,8	10,0	9,6	9,2	8,3
	MH	Correction factor ·0.92 × H·					
	M	Correction factor ·0.83 × H·					
	ML	Correction factor ·0.72 × H·					
	L	Correction factor ·0.60 × H·					
100	H	14,6	13,5	12,5	12,0	11,5	10,4
	MH	Correction factor ·0.87 × H·					
	M	Correction factor ·0.75 × H·					
	ML	Correction factor ·0.62 × H·					
	L	Correction factor ·0.50 × H·					
125	H	18,7	17,3	16,0	15,3	14,7	13,4
	MH	Correction factor ·0.88 × H·					
	M	Correction factor ·0.81 × H·					
	ML	Correction factor ·0.71 × H·					
	L	Correction factor ·0.62 × H·					

Notes

1) TC: Total capacity [kW]
2) Outdoor temperature ·7·°C DB / ·6·°C WB

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7 Dimensional drawings

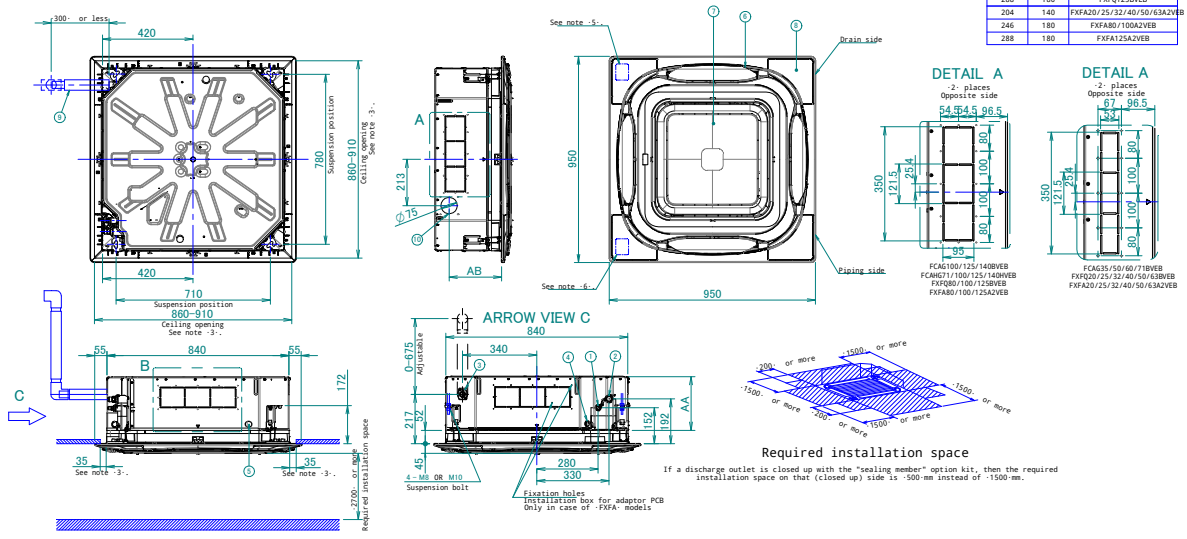
7 - 1 Dimensional Drawings

FXFA-A

Notes

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

AA	AB	Model
204	140	FCAG35/50/60/71BVEB
246	180	FCAG100/125/140BVEB
288	180	FCAHG71/100/125/140HVEB
204	140	FXFQ20/25/32/40/50/63BVEB
246	180	FXFQ80/100BVEB
288	180	FXFQ125BVEB
204	140	FXFA20/25/32/40/50/63A2VEB
246	180	FXFA80/100A2VEB
288	180	FXFA125A2VEB



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

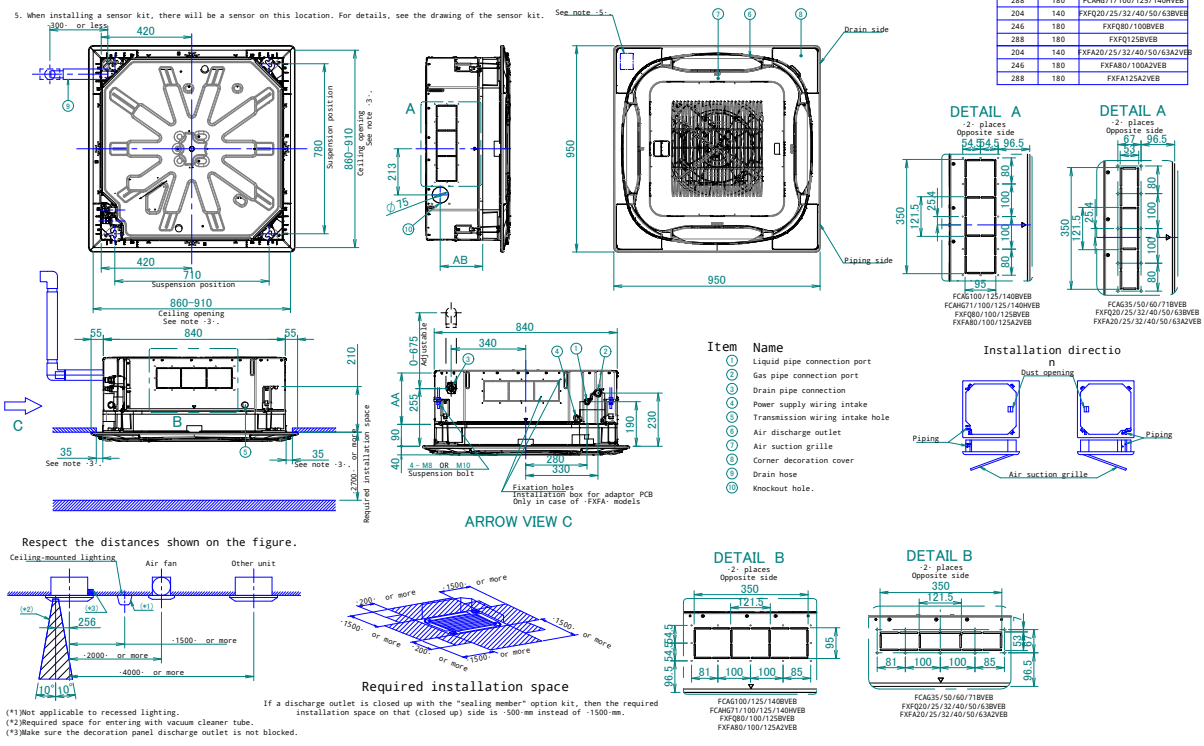
2D121703C

FXFA-A

Notes

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

AA	AB	Model
204	140	FCAG35/50/60/71BVEB
246	180	FCAG100/125/140BVEB
288	180	FCAHG71/100/125/140HVEB
204	140	FXFQ20/25/32/40/50/63BVEB
246	180	FXFQ80/100BVEB
288	180	FXFQ125BVEB
204	140	FXFA20/25/32/40/50/63A2VEB
246	180	FXFA80/100A2VEB
288	180	FXFA125A2VEB



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

(*1)Not applicable to recessed lighting.
(*2)Required space for entering with vacuum cleaner tube.
(*3)Make sure the decoration panel discharge outlet is not blocked.

2D121658C

7 Dimensional drawings

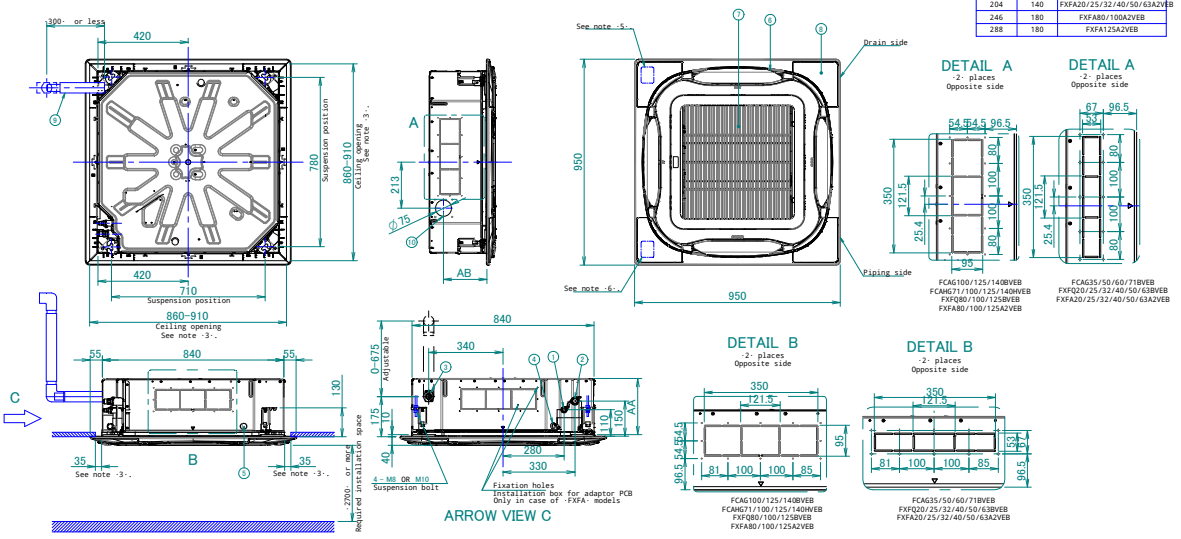
7 - 1 Dimensional Drawings

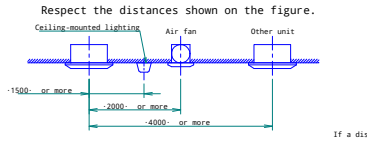
FXFA-A

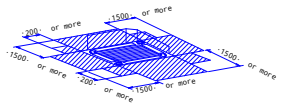
Notes

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

AA	AB	Model
204	140	FCAG35/50/60/71BVEB
246	180	FCAG100/125/140BVEB
288	180	FCAHG71/100/125/140HVEB
204	140	FXFQ20/25/32/40/50/63BVEB
246	180	FXFQ80/100BVEB
288	180	FXFQ125BVEB
204	140	FXFA20/25/32/40/50/63A2VEB
246	180	FXFA80/100A2VEB
288	180	FXFA125A2VEB







Required installation space

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

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

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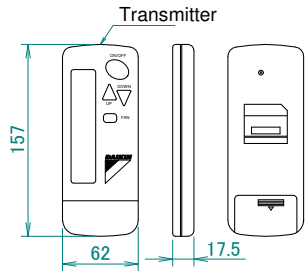
7 Dimensional drawings

7 - 2 Dimensional Drawings with Accessories

FXFA-A

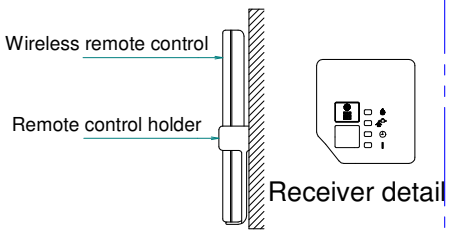
Remote control dimensions



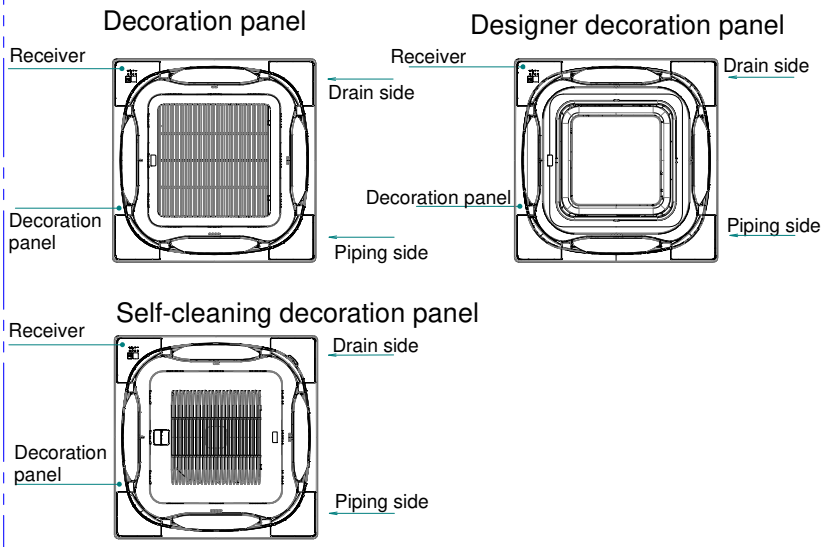
Remote control holder

Installation methods

Installation to wall surface



Installation methods



Front panel	Model name	Option
Decoration panel	BYCQ140E2W1(W)	BRC7FA532F
	BYCQ140E2W1B	BRC7FA532FB
Self-cleaning decoration panel	BYCQ140E2GFW1	BRC7FA532F
	BYCQ140E2GFW1B	BRC7FA532FB
Designer decoration panel	BYCQ140E2P	BRC7FB532F
	BYCQ140E2PB	BRC7FB532FB

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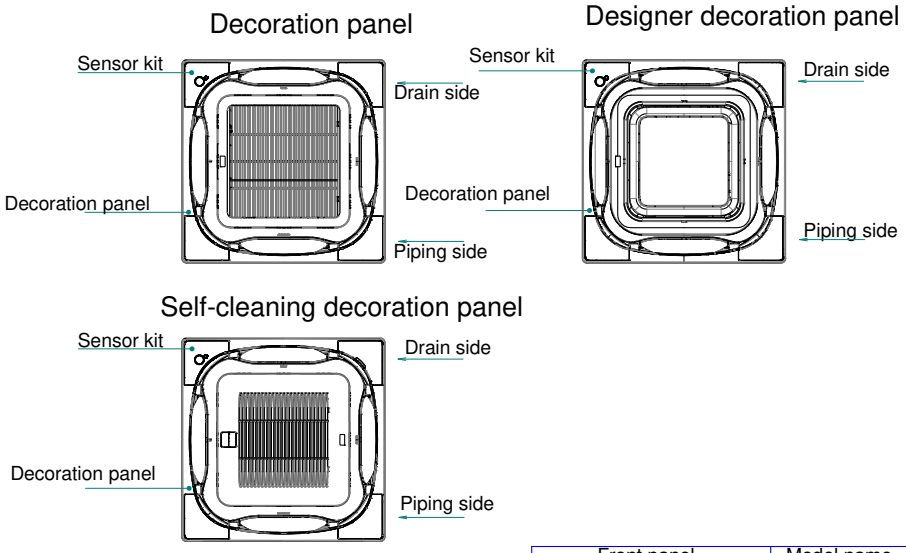
FXFA-A

Installation methods



Front panel	Model name	Option
Decoration panel	BYCQ140E2W1(W)	BRYQ140B8
	BYCQ140E2W1B	BRYQ140B8B
Self-cleaning decoration panel	BYCQ140E2GFW1	BRYQ140B8
	BYCQ140E2GFW1B	BRYQ140B8B
Designer decoration panel	BYCQ140E2P	BRYQ140C8
	BYCQ140E2PB	BRYQ140C8B

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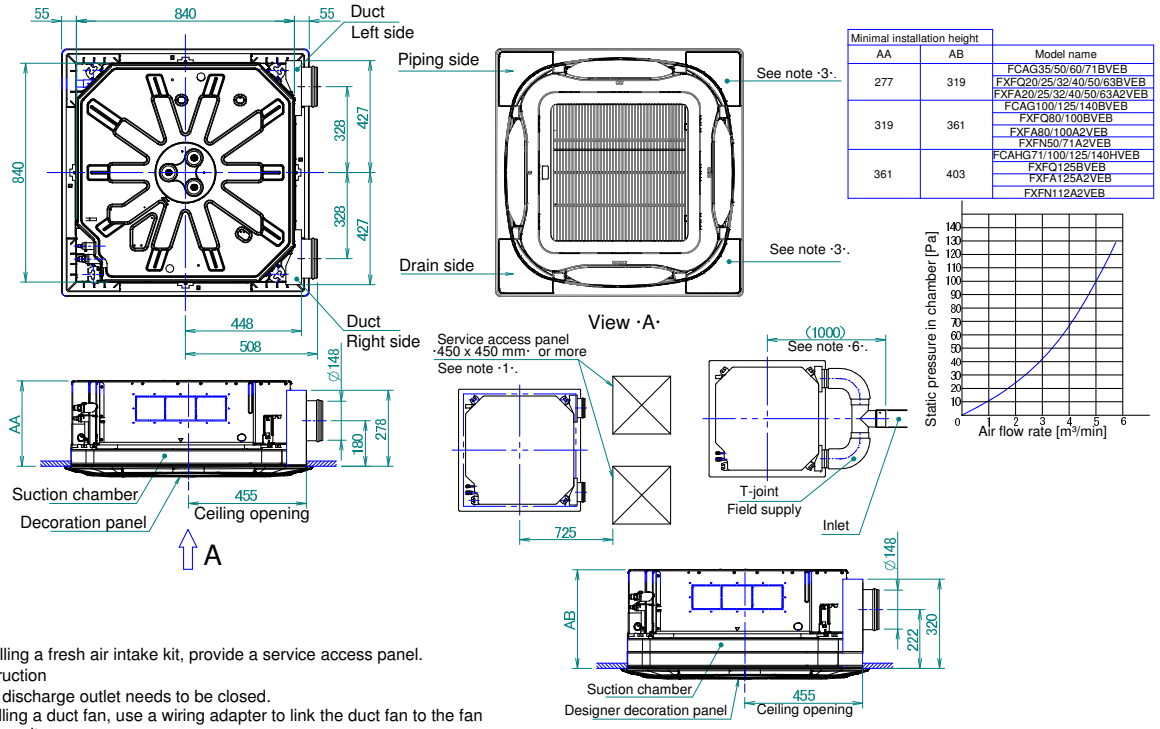
7 Dimensional drawings

7 - 3 Dimensional Drawings with Fresh Air Intake

FXFA-A



Minimal installation height		
AA	AB	Model name
277	319	FCAG35/50/60/71BVEB
		FXFQ20/25/32/40/50/63BVEB
		FXFA20/25/32/40/50/63A2VEB
319	361	FCAG100/125/140BVEB
		FXFQ80/100BVEB
		FXFA80/100A2VEB
		FXFN50/71A2VEB
361	403	FCAHG71/100/125/140HVEB
		FXFQ125BVEB
		FXFA125A2VEB
		FXFN112A2VEB

Notes

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

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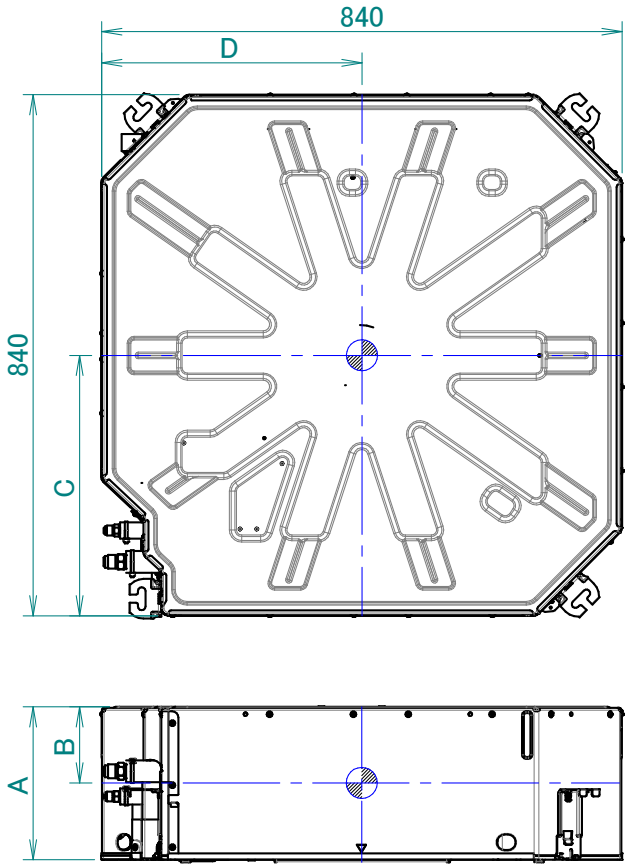
8 Centre of gravity

8 - 1 Centre of Gravity

FXFA-A



Model	A	B	C	D
FCAG35～71BVEB	204	70	400	405
FCAG100～140BVEB	246	100	400	405
FCAHG71～140HVEB	288	135	400	405
FXFQ20～63BVEB, FXFA20～63A2VEB	204	70	395	400
FXFQ80～100BVEB, FXFA80～100A2VEB	246	100	395	400
FXFQ125BVEB, FXFA125A2VEB	288	135	395	400
FXFN50～71A2VEB	246	113	408	412
FXFN112A2VEB	288	120	403	415

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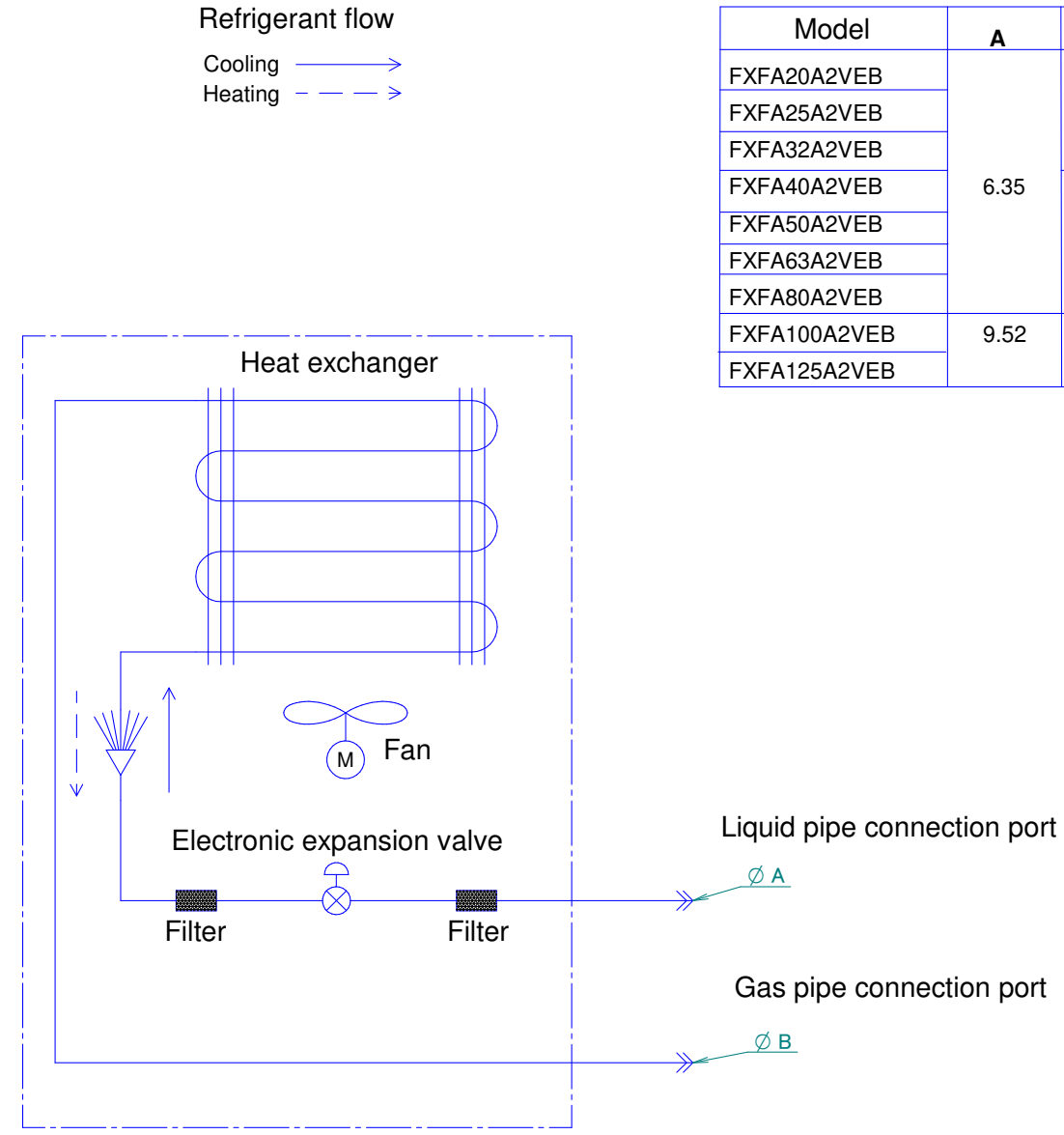
9 Piping diagrams

9 - 1 Piping Diagrams

FXFA-A



Model	A	B
FXFA20A2VEB	6.35	9.52
FXFA25A2VEB		
FXFA32A2VEB		
FXFA40A2VEB		12.7
FXFA50A2VEB		
FXFA63A2VEB		
FXFA80A2VEB		
FXFA100A2VEB	9.52	15.9
FXFA125A2VEB		

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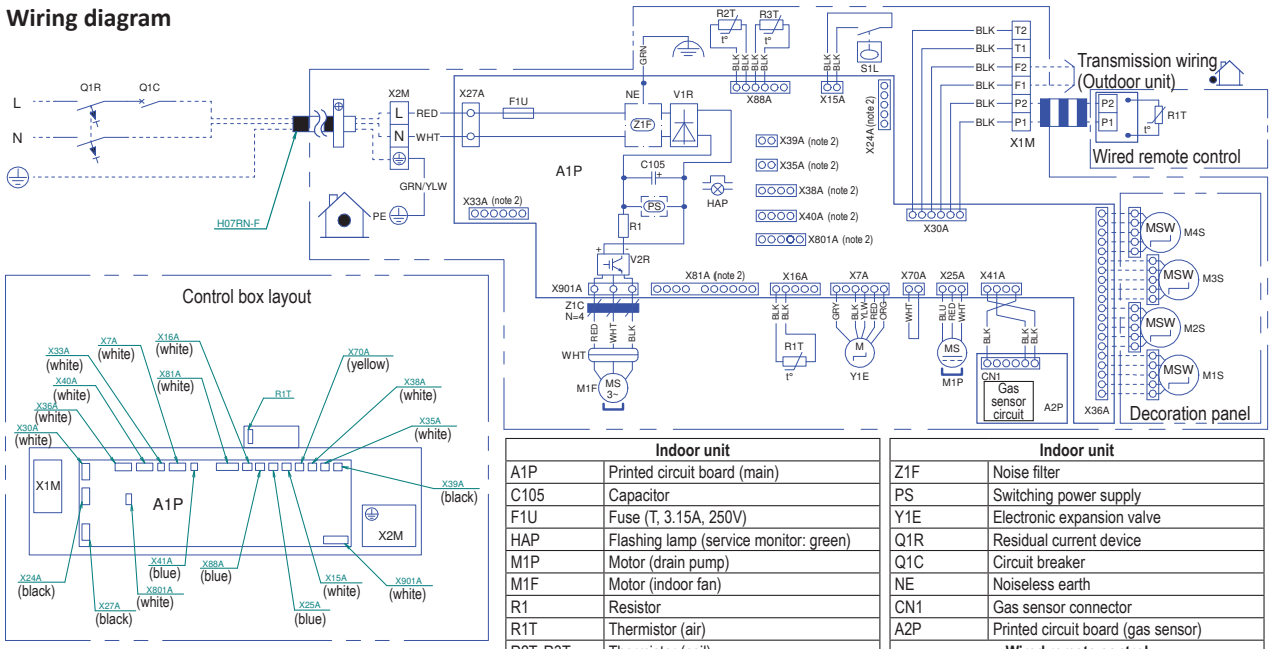
10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

FXFA-A

Wiring diagram



Indoor unit	
A1P	Printed circuit board (main)
C105	Capacitor
F1U	Fuse (T, 3.15A, 250V)
HAP	Flashing lamp (service monitor: green)
M1P	Motor (drain pump)
M1F	Motor (indoor fan)
R1	Resistor
R1T	Thermistor (air)
R2T, R3T	Thermistor (coil)
S1L	Float switch (drain pump)
V1R	Diode bridge
V2R	Igbt power module
X7A-X901A	Connector
X1M	Terminal block (remote controller)
X2M	Terminal block (power supply)
Z1C	Ferrite core

Indoor unit	
Z1F	Noise filter
PS	Switching power supply
Y1E	Electronic expansion valve
Q1R	Residual current device
Q1C	Circuit breaker
NE	Noiseless earth
CN1	Gas sensor connector
A2P	Printed circuit board (gas sensor)
Wired remote control	
R1T	Thermistor (air)
Decoration panel	
M1S-M4S	Motor (swing blade)

NOTES

1. □□□: terminal block, ⊡⊡: connector, ▮▮▮: field wiring
2. X24A, X33A, X35A, X38A, X39A, X40A, X81A, X801A are connected when optional accessories are being used, see wiring diagram of this accessory.

WIRE COLOURS

BLK: black, RED: red, BLU: blue, WHT: white, YLW: yellow, GRN: green, BRN: brown, PNK: pink, GRY: grey, ORG: orange

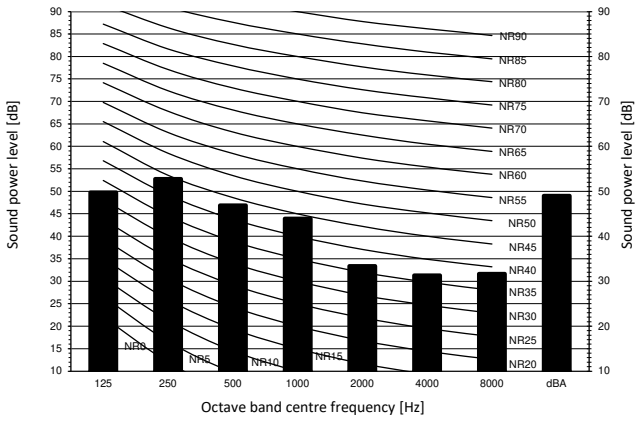
3D128222

11 Sound data

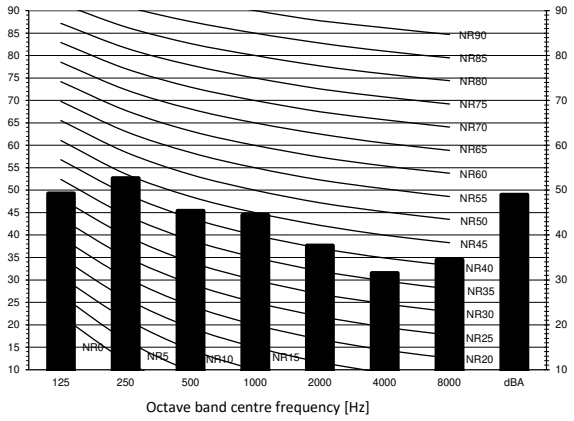
11 - 1 Sound Power Spectrum

FXFA20-32A

Cooling mode



Heating mode



Notes

Fan speed

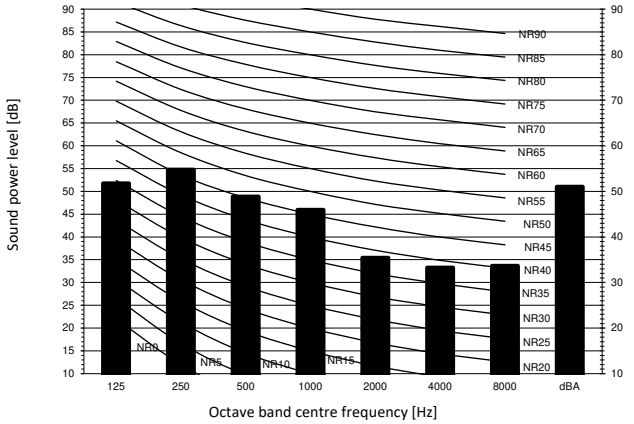
High

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = ·10E-6·µW
3. Measured according to ISO 3744

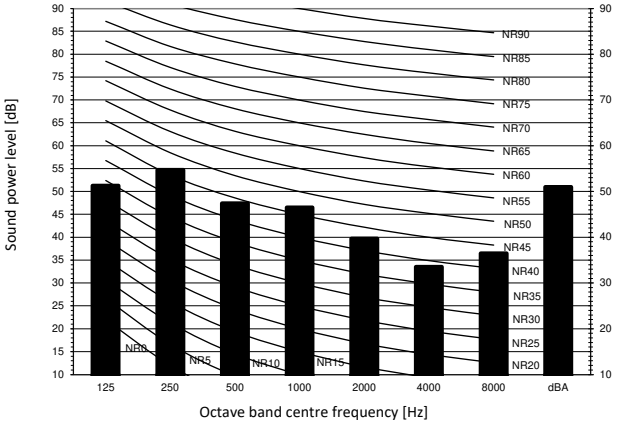
3D131809

FXFA40-50A

Cooling mode



Heating mode



Notes

Fan speed

High

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = ·10E-6·µW
3. Measured according to ISO 3744

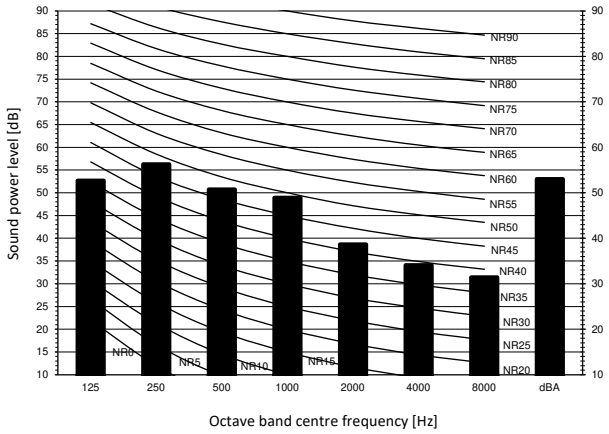
3D131810

11 Sound data

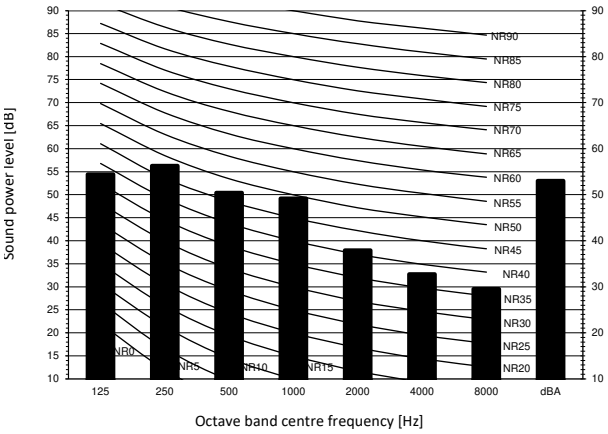
11 - 1 Sound Power Spectrum

FXFA63A

Cooling mode



Heating mode



Notes

Fan speed

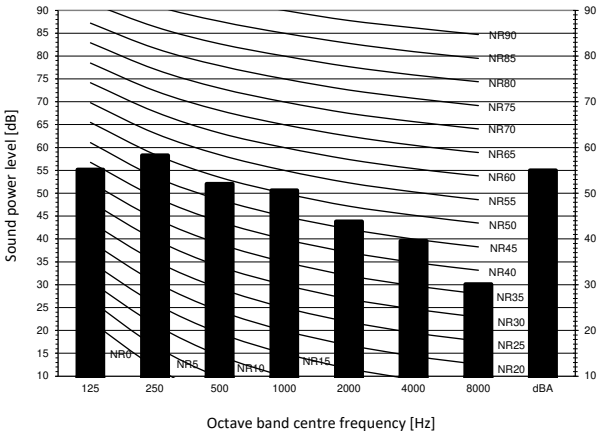
High

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = ·10E-6·µW
3. Measured according to ISO 3744

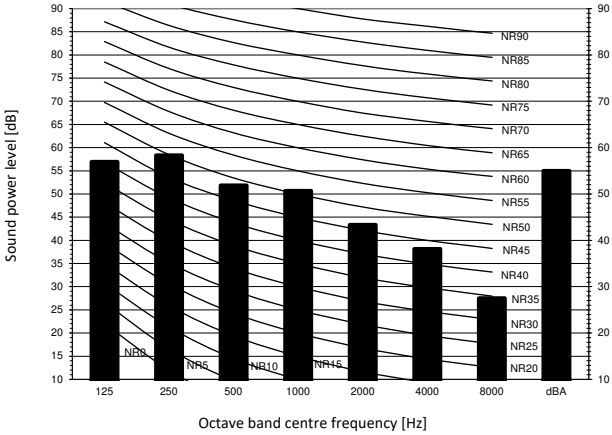
3D131811

FXFA80A

Cooling mode



Heating mode



Notes

Fan speed

High

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = ·10E-6·µW
3. Measured according to ISO 3744

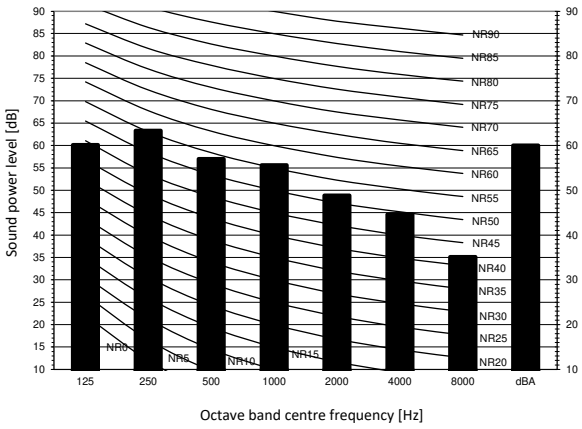
3D131812

11 Sound data

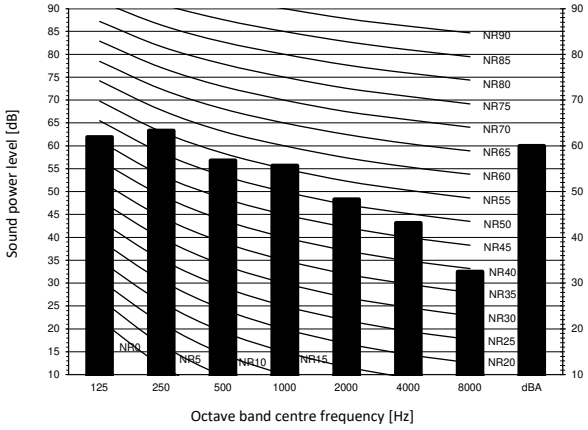
11 - 1 Sound Power Spectrum

FXFA100A

Cooling mode



Heating mode



Fan speed

High

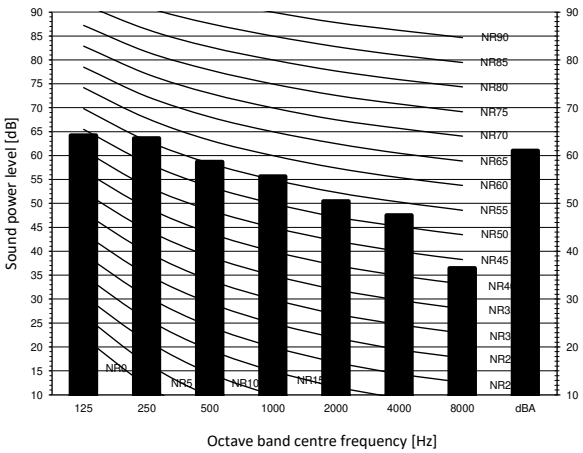
Notes

1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = ·10E-6·µW
3. Measured according to ISO 3744

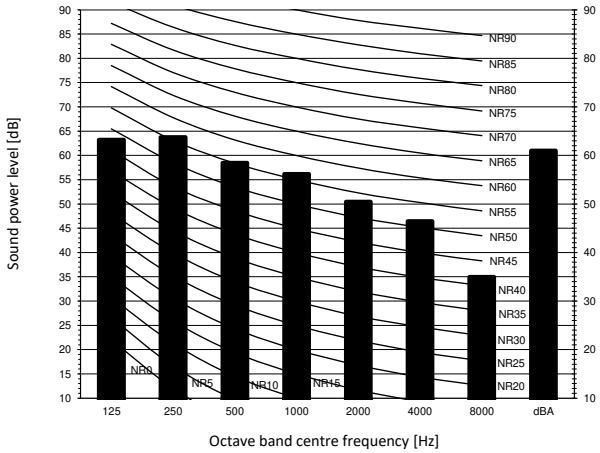
3D131813

FXFA125A

Cooling mode



Heating mode



Fan speed

High

Notes

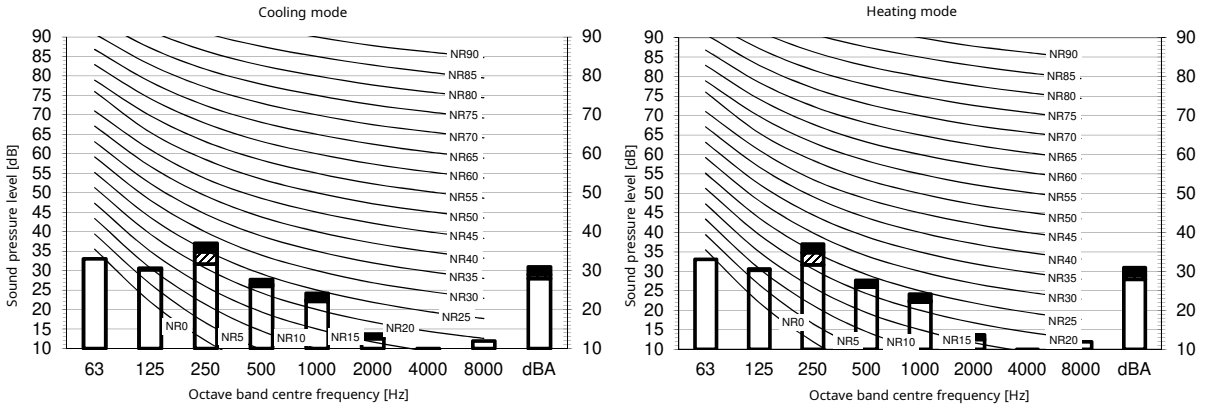
1. dBA = A-weighted sound power level (A scale according to IEC).
2. Reference acoustic power 0 dB = ·10E-6·µW
3. Measured according to ISO 3744

3D131814

11 Sound data

11 - 2 Sound Pressure Spectrum

FXFA20A



Legend

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

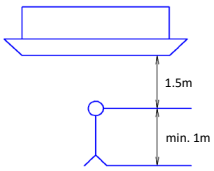
A Scale Fan speed

B High

C Medium

D Low

Location of microphone



Cooling	Total dB		
A	B	C	D
dBA	31,0	29,0	28,0

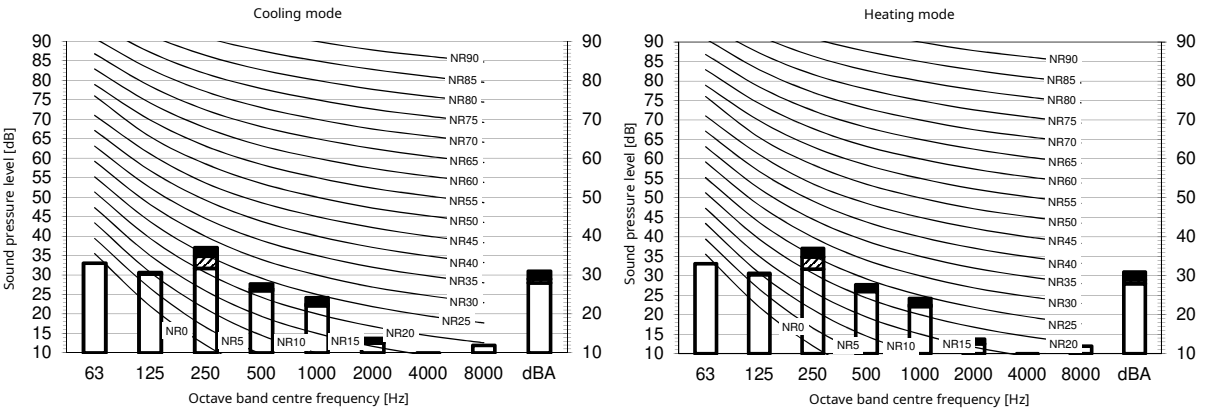
Heating	Total dB		
A	B	C	D
dBA	31,0	29,0	28,0

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

3D121671A

FXFA25A



Legend

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

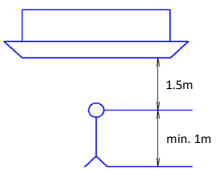
A Scale Fan speed

B High

C Medium

D Low

Location of microphone



Cooling	Total dB		
A	B	C	D
dBA	31,0	29,0	28,0

Heating	Total dB		
A	B	C	D
dBA	31,0	29,0	28,0

Notes

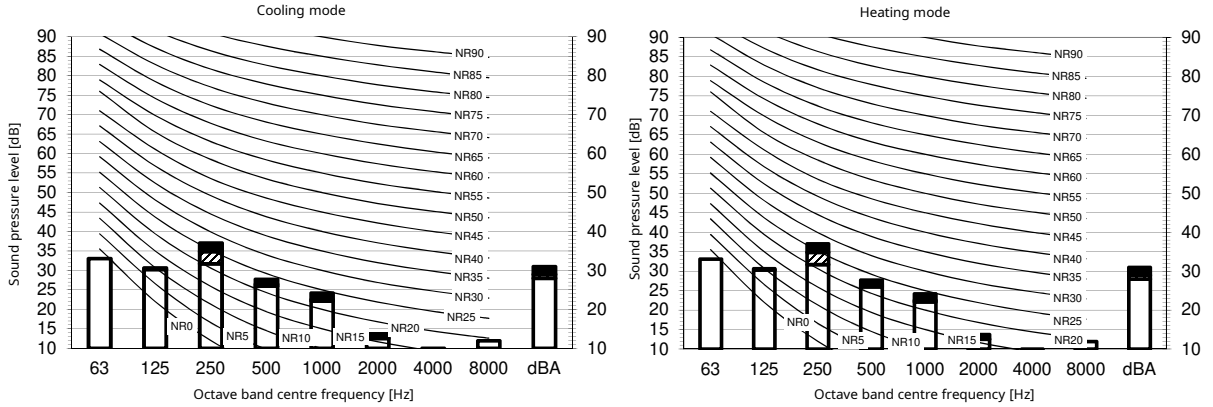
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D121672A

11 Sound data

11 - 2 Sound Pressure Spectrum

FXFA32A



Legend

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

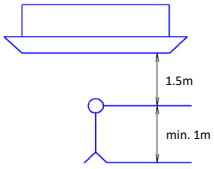
A Scale Fan speed

B High

C Medium

D Low

Location of microphone



Cooling Total dB

A	B	C	D
dBA	31,0	29,0	28,0

Heating Total dB

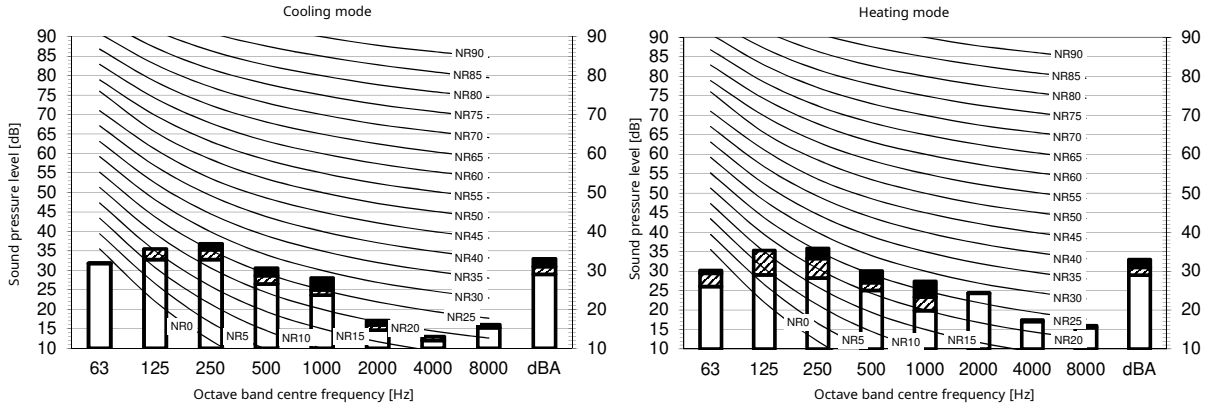
A	B	C	D
dBA	31,0	29,0	28,0

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

3D121673A

FXFA40A



Legend

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

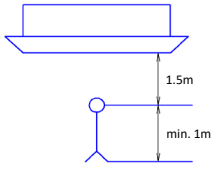
A Scale Fan speed

B High

C Medium

D Low

Location of microphone



Cooling Total dB

A	B	C	D
dBA	33,0	31,0	29,0

Heating Total dB

A	B	C	D
dBA	33,0	31,0	29,0

Notes

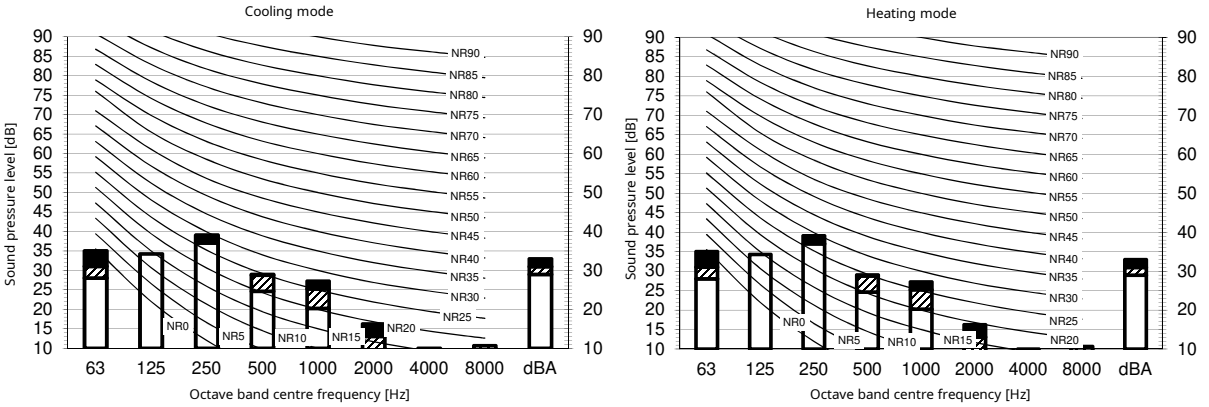
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D121674A

11 Sound data

11 - 2 Sound Pressure Spectrum

FXFA50A



Legend

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

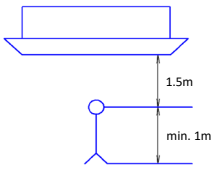
A Scale Fan speed

B High

C Medium

D Low

Location of microphone



Cooling	Total dB		
A	B	C	D
dBA	33,0	31,0	29,0

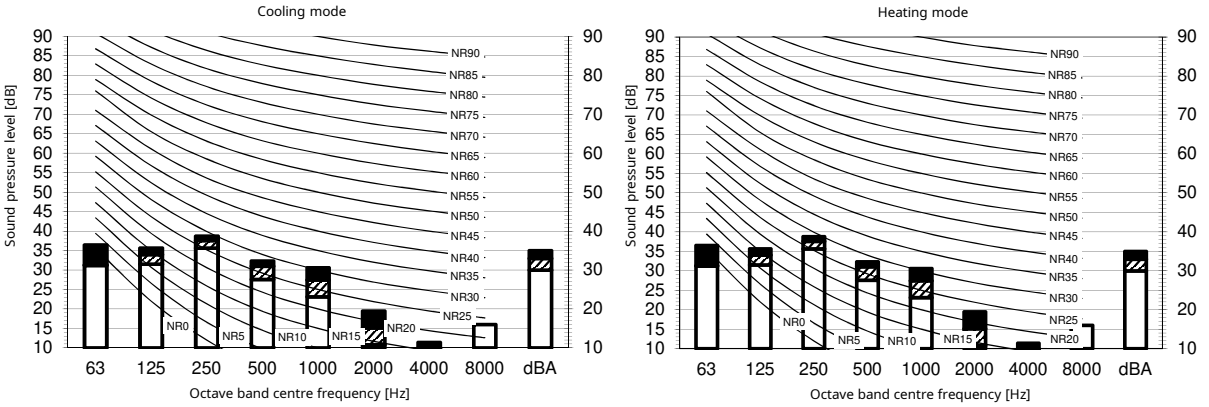
Heating	Total dB		
A	B	C	D
dBA	33,0	31,0	29,0

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

3D121675A

FXFA63A



Legend

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

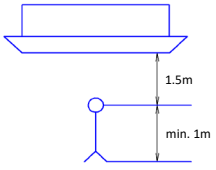
A Scale Fan speed

B High

C Medium

D Low

Location of microphone



Cooling	Total dB		
A	B	C	D
dBA	35,0	33,0	30,0

Heating	Total dB		
A	B	C	D
dBA	35,0	33,0	30,0

Notes

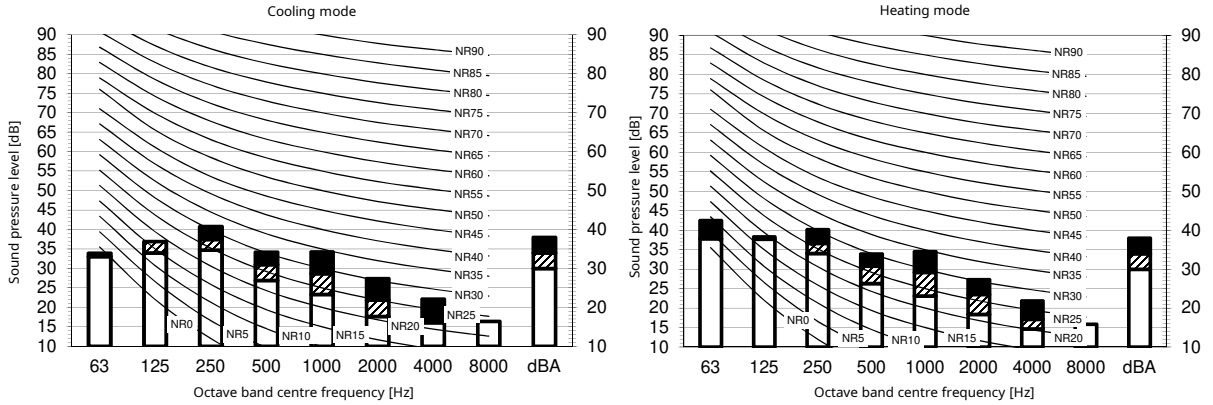
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D121676A

11 Sound data

11 - 2 Sound Pressure Spectrum

FXFA80A



Legend

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

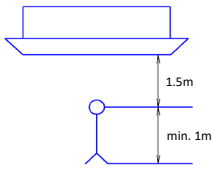
A Scale Fan speed

B High

C Medium

D Low

Location of microphone



Cooling	Total dB		
A	B	C	D
dBA	38,0	34,0	30,0

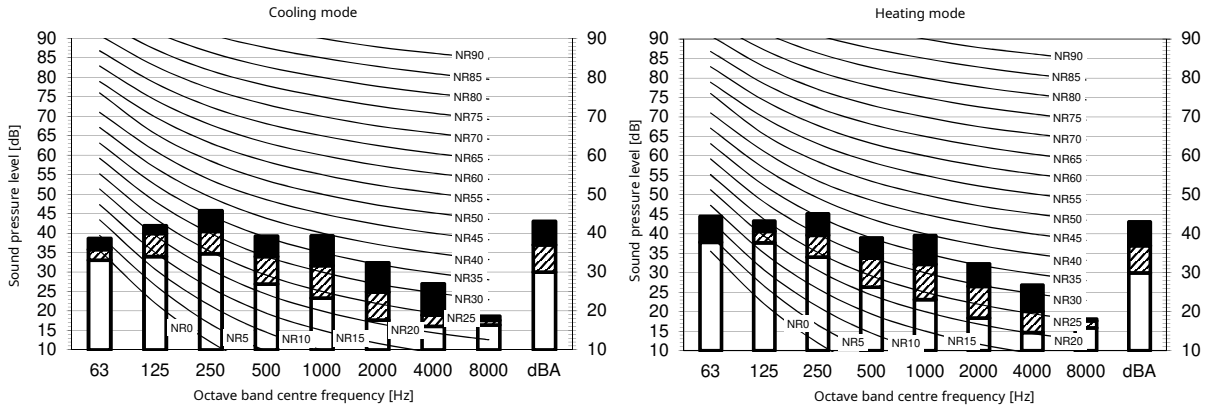
Heating	Total dB		
A	B	C	D
dBA	38,0	34,0	30,0

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

3D121677A

FXFA100A



Legend

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

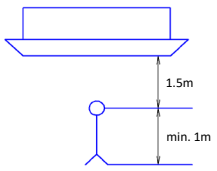
A Scale Fan speed

B High

C Medium

D Low

Location of microphone



Cooling	Total dB		
A	B	C	D
dBA	43,0	37,0	30,0

Heating	Total dB		
A	B	C	D
dBA	43,0	37,0	30,0

Notes

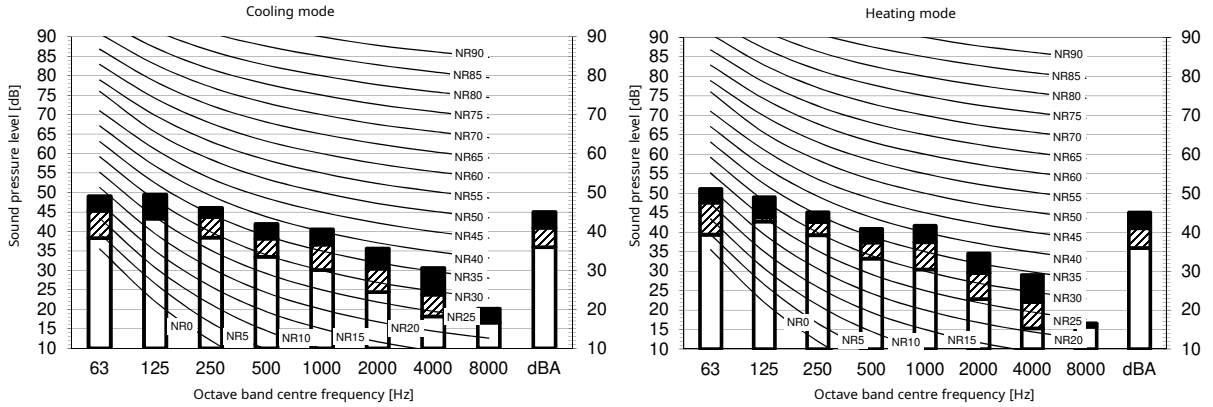
1. Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
2. Background noise already taken into account.
3. Operating noise varies depending on operation and ambient conditions.
4. The operation noise measuring method is in accordance with JISC9612.
5. Measuring location: anechoic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

3D121678A

11 Sound data

11 - 2 Sound Pressure Spectrum

FXFA125A



Legend

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

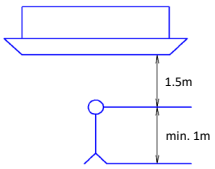
A Scale Fan speed

B High

C Medium

D Low

Location of microphone



Cooling Total dB

A	B	C	D
dBA	45,0	41,0	36,0

Heating Total dB

A	B	C	D
dBA	45,0	41,0	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

3D121679A

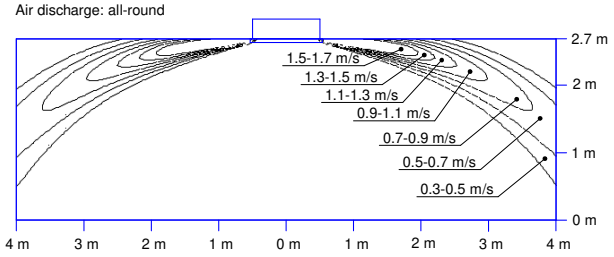
12 Air flow patterns

12 - 1 Air flow pattern - Cooling and Heating

FXFA20-32A

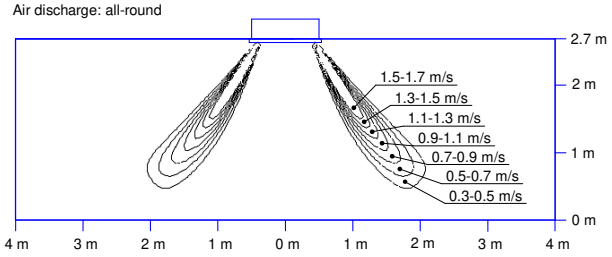
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



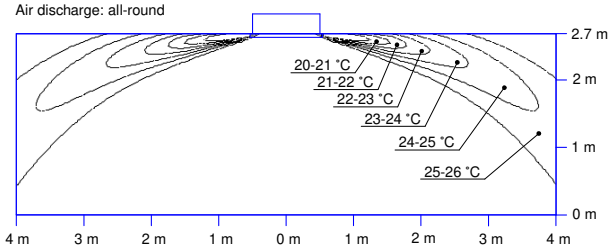
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



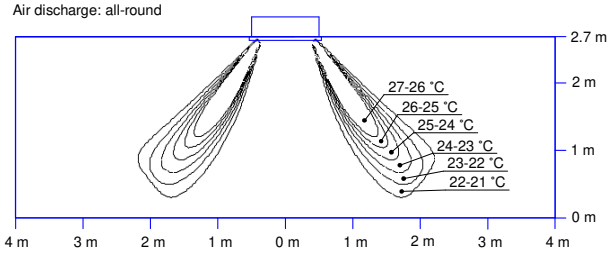
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round

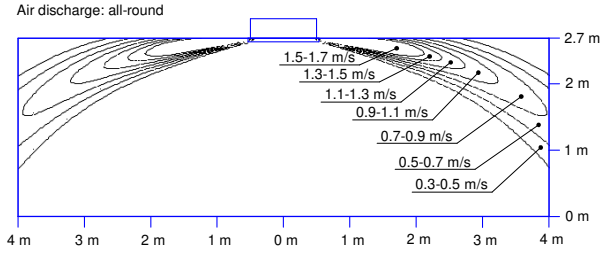


3D121627A

FXFA40A

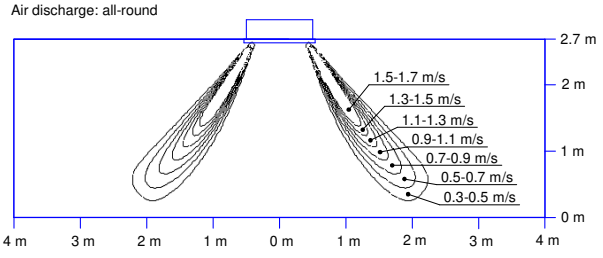
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



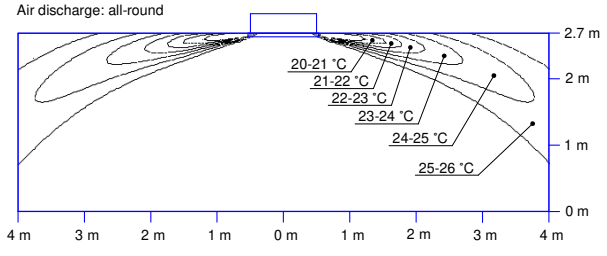
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



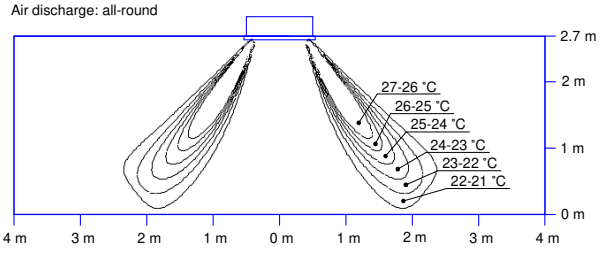
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



3D121620A

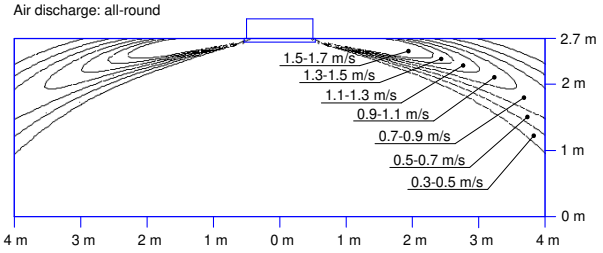
12 Air flow patterns

12 - 1 Air flow pattern - Cooling and Heating

FXFA50A

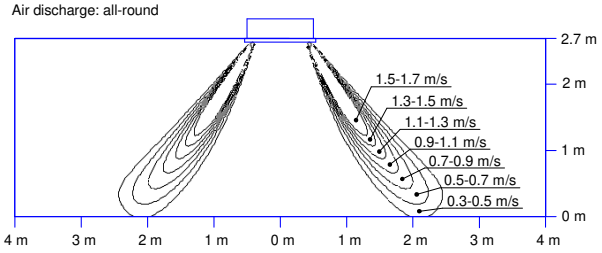
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



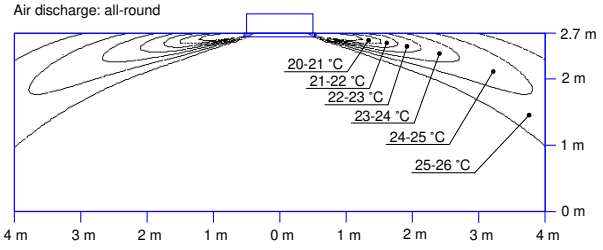
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



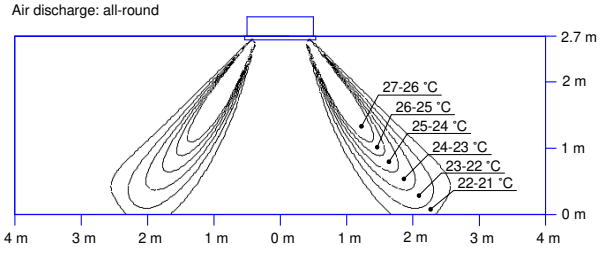
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round

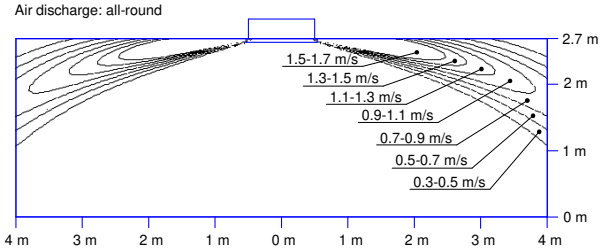


3D121621A

FXFA63A

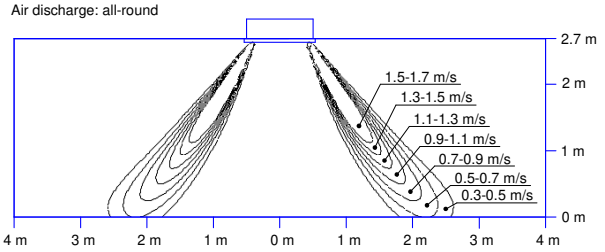
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



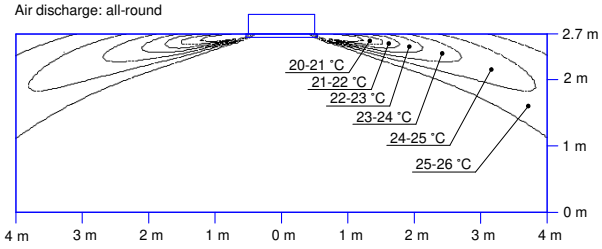
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



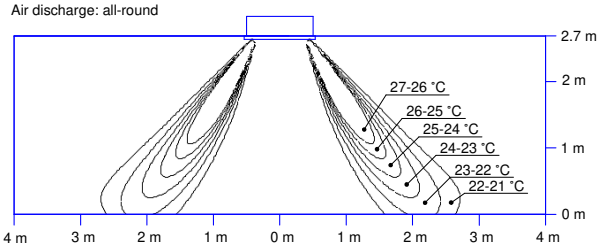
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



3D121628A

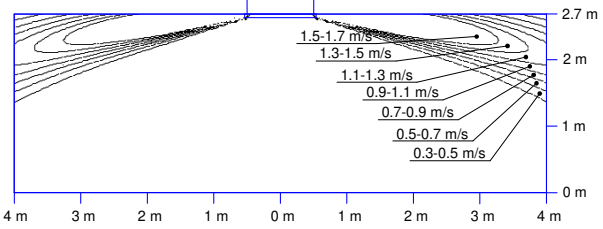
12 Air flow patterns

12 - 1 Air flow pattern - Cooling and Heating

FXFA80A

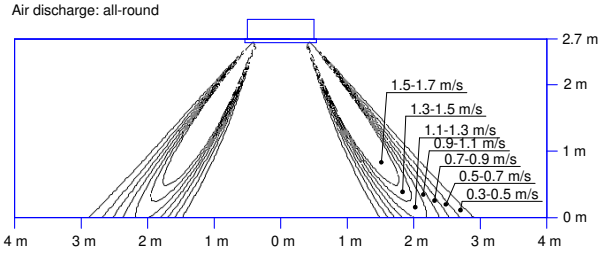
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



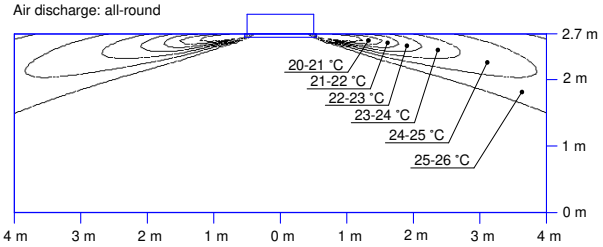
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



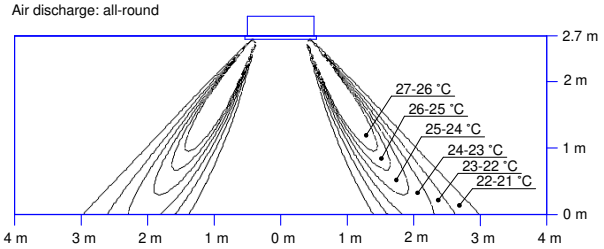
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round

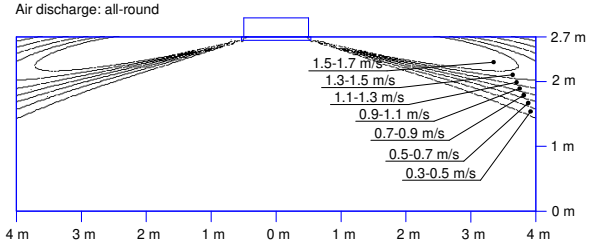


3D121622A

FXFA100A

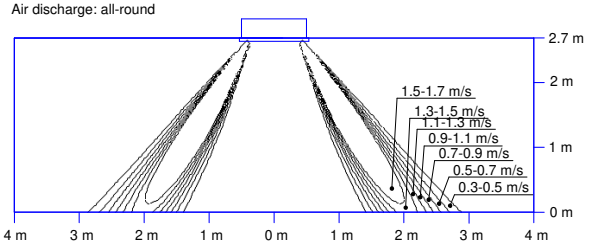
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



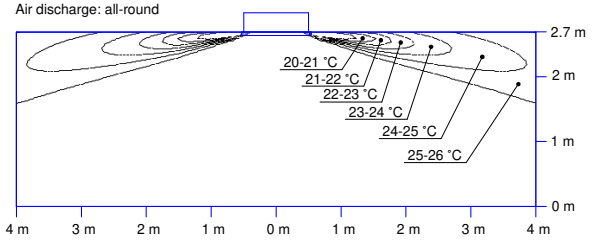
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



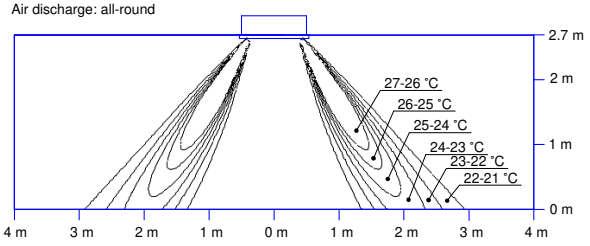
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



3D121629A

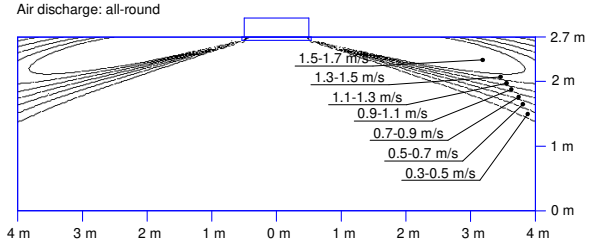
12 Air flow patterns

12 - 1 Air flow pattern - Cooling and Heating

FXFA125A

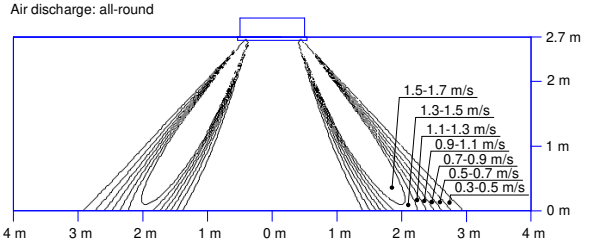
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



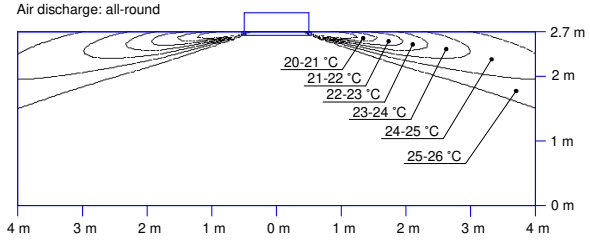
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



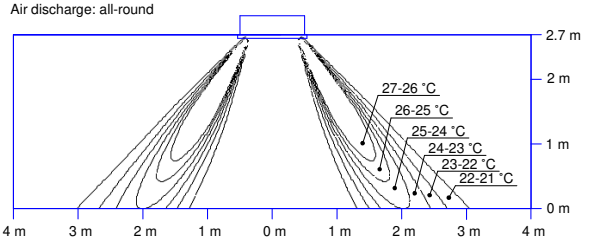
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



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Daikin Europe N.V. Naamloze Vennootschap · Zandvoordestraat 300 · 8400 Oostende · Belgium · www.daikin.eu · BE 0412 120 336 · RPR Oostende (Responsible Editor)

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