

Round flow cassette Air Conditioning Technical Data FXFQ-B



FXFQ20BVEB
FXFQ25BVEB
FXFQ32BVEB
FXFQ40BVEB
FXFQ50BVEB
FXFQ63BVEB
FXFQ80BVEB
FXFQ100BVEB
FXFQ125BVEB

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FXFQ-B

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Features

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360° air discharge for optimum efficiency and comfort

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- › 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
- › Branch duct discharge allows to optimize air distribution in irregular shaped rooms or to supply air to small adjacent rooms
- › Standard drain pump with 675mm lift increases flexibility and installation speed



Inverter



Presence & floor sensor (optional)



Home leave operation



Fan only



Auto-cleaning filter (optional)



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



Self diagnosis



Multi tenant (optional)



Drain pump kit (standard)

2 Specifications

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Technical specifications				FXFQ20B	FXFQ25B	FXFQ32B	FXFQ40B	FXFQ50B	FXFQ63B
Cooling capacity	Sensible capacity	At high fan speed	kW	1.80	2.10	2.80	3.40	4.10	5.20
	Latent capacity	At high fan speed	kW	0.40	0.70	0.80	1.10	1.50	1.90
	Total capacity	At high fan speed	kW	2.20	2.80	3.60	4.50	5.60	7.10
Heating capacity	Total capacity	At high fan speed	kW	2.50	3.20	4.00	5.00	6.30	8.00
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					
		Width	mm	880					
		Depth	mm	880					
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		m²	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)					
Fan	Type			Turbo fan					
	Quantity			1					
Fan	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	12.8		14.8	15.1	16.6
			At medium fan speed	m³/min	10.7		12.6	12.9	13.4
			At low fan speed	m³/min	8.9		10.4	10.7	
		Heating	At high fan speed	m³/min	12.8		14.8	15.1	16.6
			At medium fan speed	m³/min	10.7		12.6	12.9	13.4
			At low fan speed	m³/min	8.9		10.4	10.7	
Sound power level	Cooling	At high fan speed	dB(A)	49.0			51.0	53.0	
Sound pressure level	Cooling	At high fan speed	dB(A)	31.0			33.0	35.0	
		At medium fan speed	dB(A)	29.0			31.0	33.0	
		At low fan speed	dB(A)	28.0			29.0	30.0	
		At high fan speed	dB(A)	31.0			33.0	35.0	
	Heating	At medium fan speed	dB(A)	29.0			31.0	33.0	
		At low fan speed	dB(A)	28.0			29.0	30.0	
Fan motor	Quantity			1					
	Speed	Steps		5					
Refrigerant	Type			R-410A					
	GWP			2,087.5					
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					
	Dimen-sions	Height	mm	65					
		Width	mm	950					
		Depth	mm	950					
	Weight		ka	5.5					

2 Specifications

1 - 1 FXFQ-B

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Technical specifications				FXFQ20B	FXFQ25B	FXFQ32B	FXFQ40B	FXFQ50B	FXFQ63B
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					
Decoration panel 3	Dimensions	Depth	mm	950					
	Weight		kg	6.5					
Air filter	Type			Resin net					
Safety devices	Item	01		Fan motor overcurrent protector					
Control systems	Infrared remote control			BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB					
	Wired remote control			BRC1D528 / BRC1E53A7 / BRC1E53B7 / BRC1E53C7 / BRC1H81W/S / BRC1H51W/S/K7 / BRC2E52C7 / BRC3E52C7					

Technical specifications				FXFQ80B	FXFQ100B	FXFQ125B		
Cooling capacity	Sensible capacity	At high fan speed	kW	6.50	7.80	9.80		
	Latent capacity	At high fan speed	kW	2.50	3.40	4.20		
	Total capacity	At high fan speed	kW	9.00	11.20	14.00		
Heating capacity	Total capacity	At high fan speed	kW	10.00	12.50	16.00		
Power input - 50Hz	Cooling	At high fan speed	kW	0.045 (1)	0.071 (1)	0.103 (1)		
		At medium high fan speed	kW	0.036 (1)	0.049 (1)	0.081 (1)		
		At medium fan speed	kW	0.028 (1)	0.033 (1)	0.062 (1)		
		At medium low fan speed	kW	0.020 (1)	0.021 (1)	0.045 (1)		
	Heating	At low fan speed	kW	0.015 (1)	0.014 (1)	0.031 (1)		
		At high fan speed	kW	0.045 (1)	0.071 (1)	0.103 (1)		
		At medium high fan speed	kW	0.036 (1)	0.049 (1)	0.081 (1)		
		At medium fan speed	kW	0.028 (1)	0.033 (1)	0.062 (1)		
		At medium low fan speed	kW	0.020 (1)	0.021 (1)	0.045 (1)		
Power input - 60Hz	Cooling	At high fan speed	kW	0.045 (1)	0.071 (1)	0.103 (1)		
		At high fan speed	kW	0.045 (1)	0.071 (1)	0.103 (1)		
	Dimensions	Unit	Height	mm	246		288	
			Width	mm	840			
			Depth	mm	840			
	Packed unit	Height	mm	260		300		
			Width	mm	880			
			Depth	mm	880			
	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		m²	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)					
Fan	Type			Turbo fan				
	Quantity			1				
Fan	Air flow rate - 50Hz	Cooling	At high fan speed	m³/min	23.3	27.8	31.6	
			At medium fan speed	m³/min	19.2	20.4	26.0	
			At low fan speed	m³/min	13.5	13.0	19.8	
	Heating	At high fan speed	m³/min	22.5	27.8	30.3		
		At medium fan speed	m³/min	18.5	20.4	24.9		
At low fan speed		m³/min	13.0		18.9			
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 fan speed	dBA	34.0	37.0	41.0		
		At low fan speed	dBA	30.0		36.0		
		Heating	At high fan speed	dBA	38.0	43.0	45.0	
	At medium fan speed	dBA	34.0	37.0	41.0			
At low fan speed	dBA	30.0		36.0				

2 Specifications

1 - 1 FXFQ-B

Technical specifications				FXFQ80B	FXFQ100B	FXFQ125B
Fan motor	Quantity				1	
	Speed	Steps			5	
	Output	Max	W	-		106
Refrigerant	Type				R-410A	
	GWP				2,087.5	
Piping connections	Liquid	Type			Flare connection	
		OD	mm		10	
	Gas	Type			Flare connection	
		OD	mm		15.90	
	Drain				VP25 (O.D. 32 / I.D. 25)	
	Heat insulation				Foamed polystyrene / Foamed polyethylene	
Decoration panel	Sound absorbing insulation				Foamed polyurethane	
	Model				BYCQ140E2W1 / BYCQ140E2W1W / BYCQ140E2W1B	
	Dimen- sions	Height	mm		65	
		Width	mm		950	
		Depth	mm		950	
	Weight		kg		5.5	
Decoration panel 2	Model				BYCQ140E2GFW1 / BYCQ140E2GFW1B	
	Dimen- sions	Height	mm		148	
		Width	mm		950	
		Depth	mm		950	
	Weight		kg		10.3	
Decoration panel 3	Model				BYCQ140E2P / BYCQ140E2PB	
	Dimen- sions	Height	mm		106	
Decoration panel 3	Dimen- sions	Width	mm		950	
		Depth	mm		950	
	Weight		kg		6.5	
Air filter	Type				Resin net	
Safety devices	Item	01			Fan motor overcurrent protector	
Control systems	Infrared remote control				BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB	
	Wired remote control				BRC1D528 / BRC1E53A7 / BRC1E53B7 / BRC1E53C7 / BRC1H81W/S / BRC1H51W/S/K7 / BRC2E52C7 / BRC3E52C7	

Standard accessories: Operation manual; Quantity: 1;

Standard accessories: Installation 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				FXFQ20B	FXFQ25B	FXFQ32B	FXFQ40B	FXFQ50B	FXFQ63B
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				16			
	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				16			
	Full load amps (FLA) Total	A			0.2			0.3	

Electrical specifications				FXFQ80B	FXFQ100B	FXFQ125B
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			16	
	Full load amps (FLA) Total	A		0.5	0.6	1.0
Current - 60Hz	Minimum circuit amps (MCA)	A		0.6	0.8	1.3
	Maximum fuse amps (MFA)	A			16	
	Full load amps (FLA) Total	A		0.5	0.6	1.0

(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 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 environments exposed to concentrations of dirt. |

2 Specifications

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

(6)Voltage range: units are suitable for use on electrical systems where voltage supplied to unit terminal is not below or above listed range limits. |

(7)Maximum allowable voltage range variation between phases is 2%. |

(8)Contains fluorinated greenhouse gases |

(9)BYCQ140E2W1: pure white standard panel with grey louvers; BYCQ140E2W1W: pure white standard panel with white louvers; BYCQ140E2W1B: black standard panel with black louvers.

3 Electrical data

3 - 1 Electrical Data

FXFQ-B

Model name	Power supply					IFM	Power input [W]	
Indoor unit	Hz	Voltage	Voltage range	MCA	MFA	FLA	Cooling	Heating
FXFQ20BVEB	50	220-240	MAX. 50Hz 264V MIN. 50Hz 198V	0,3	16	0,2	38	35
FXFQ25BVEB		220-240		0,3	16	0,2	38	35
FXFQ32BVEB		220-240		0,3	16	0,2	38	35
FXFQ40BVEB		220-240		0,3	16	0,2	38	35
FXFQ50BVEB		220-240		0,4	16	0,3	53	50
FXFQ63BVEB		220-240		0,4	16	0,3	61	58
FXFQ80BVEB		220-240		0,6	16	0,5	92	89
FXFQ100BVEB		220-240		0,8	16	0,6	115	112
FXFQ125BVEB		220-240		1,3	16	1,0	186	183
FXFQ20BVEB	60	220	MAX. 60Hz 242V MIN. 60Hz 198V	0,3	16	0,2	38	35
FXFQ25BVEB		220		0,3	16	0,2	38	35
FXFQ32BVEB		220		0,3	16	0,2	38	35
FXFQ40BVEB		220		0,3	16	0,2	38	35
FXFQ50BVEB		220		0,4	16	0,3	53	50
FXFQ63BVEB		220		0,4	16	0,3	61	58
FXFQ80BVEB		220		0,6	16	0,5	92	89
FXFQ100BVEB		220		0,8	16	0,6	115	112
FXFQ125BVEB		220		1,3	16	1,0	186	183

Symbols

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

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) 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/MFA

$$MCA = 1.25 \times FLA$$

$$MFA \leq 4 \times FLA$$

The next lower standard fuse rating is minimum ·16· ampere.

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4 Safety device settings

4 - 1 Safety Device Settings

FXFQ-B

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		---	---

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5 Options

5 - 1 Options

FXFQ-B

Option kit		Product name	Availability		
			FCAG35-140BVEB FCAHG71- 140HVEB	FXFQ20-125BVEB	
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		KAF5511D160	✓	✓	
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 ⑭	✓	✓	
Sensor kit (for designer decoration panel)		Black	BRYQ140C8B ⑮	✓	✓
Extension wire harness		EWHR1 ⑳	✓		
Wireless remote control		BRC7FA532F ⑥⑩㉔	✓	✓	
Wireless remote control		Black	BRC7FA532FB ⑥⑪㉔	✓	✓
Wireless remote control (for designer decoration panel)		BRC7FB532F ⑥㉔㉔	✓	✓	
Wireless remote control (for designer decoration panel)		Black	BRC7FB532FB ⑥㉔㉔	✓	✓
Wired remote control		BRC1D528 ⑫㉔	✓	✓	
Wired remote control		BRC1H81W/S7		✓	
Wired remote control		BRC1E53A7 ⑬, BRC1E53B7 ⑬	✓	✓	
Simplified remote control (with operation mode selector button)		BRC2E52C7 ⑬⑭㉔	✓	✓	
Simplified remote control (without operation mode selector button)		BRC3E52C7 ⑬⑭㉔	✓	✓	
Wiring adaptor for electrical appendices -1-		KRP1BA58 ⑥⑱	✓	✓	
Wiring adaptor for electrical appendices -2-		KRP4A53 ⑥⑱⑲	✓	✓	
Wiring adaptor (hour meter)		EKRP1C12 ⑥⑱	✓	✓	
Remote sensor		KRCS01-7B	✓	✓	
Installation box for adaptor PCB		KRP1H98A ⑥	✓	✓	
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	✓	✓	
PCB for multi-tenant indoor units		DTA114A61		✓	
iTouch Controller		DCS601C51		✓	
Digital input adaptor		BRP7A53 ㉔	✓	✓	
Wi-Fi adaptor for smartphones		BRP069B82 ㉔㉔㉔	✓		
Intelligent Touch Manager		DCM601A51	✓	✓	
Intelligent Tablet Controller		DCC601A51	✓	✓	
Wire harness for external wireless temperature sensor		EKEWTSC-2 ㉔	✓	✓	

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

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5 Options

5 - 1 Options

FXFQ-B

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 ·BRC1E / BRC1H· 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 Not recommended because of its limited functionality.
- ⑬ Included languages are: English, German, French, Italian, Spanish, Portuguese, and Dutch.
- ⑭ Included languages are: English, Czech, Croatian, Hungarian, Slovenian, Romanian, and Bulgarian.
- ⑮ Included languages are: English, Russian, Greek, Turkish, Polish, Albanian, and Slovak.
- ⑯ Language pack ·3· of controller ·BRC1E53C7· is different from that of controller ·BRC2/3E52C7·.
- ⑰ Included languages are:
Language pack ·1·: English, German, French, Dutch, Spanish, Italian, and Portuguese.
With PC cable ·EKPCAB3· in combination with the Updater PC software, you can additionally change the language to:
Language pack ·2·: English, Bulgarian, Croatian, Czech, Hungarian, Romanian, and Slovenian.
Language pack ·3·: English, Greek, Polish, Russian, Serbian, Slovak, and Turkish.
- ⑱ Requires installation box for adaptor PCB ·KRP1H98A·.
- ⑲ This option cannot be combined with ·BRP069B82·.
- ⑳ Only possible in combination with remote control ·BRC2/3E52C7, BRC1E53A/B/C7, BRC1H51(9)W/K/S7, BRC1H81W/S7·.
- ㉑ Only possible in combination with wired or wireless remote control (e.g. ·BRC1E, BRC1H, BRC7F·)
- ㉒ When combining the Wi-Fi adaptor (·BRP069B82·) with a self-cleaning decoration panel (·BYCQ140E2GFW1 / BYCQ140E2GFW1B·), option ·EWHAR1· is required.
- ㉓ This option cannot be combined with ·KRP4A53·.
- ㉔ Only possible in combination with ·BYCQ140E2P·.
- ㉕ Only possible in combination with ·BYCQ140E2PB·.
- ㉖ The active airflow circulation function is not available for this controller.
- ㉗ ·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.

3D121704E

Capacity tables

6 - 1 Cooling Capacity Tables

FXFQ-B

Unit size	Outdoor °CDB	Indoor air temp.													
		14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
		20.0DB	23.0DB	26.0DB	27.0DB	28.0DB	30.0DB	32.0DB	TC	SHC	TC	SHC	TC	SHC	TC
20	10.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.9	1.9
	12.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.9	1.9
	14.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.8	1.8
	16.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.8	1.8
	18.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.7	1.8
	20.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.7	1.8
	21.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.7	1.8
	23.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.6	1.7
	25.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.6	1.9	2.6	1.7
	27.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.6	1.7
	29.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.5	1.8	2.5	1.7
	31.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.8	2.5	1.7
	33.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.7	2.5	1.7
	35.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.8	2.3	1.8	2.4	1.7	2.4	1.7
	37.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.7	2.3	1.8	2.3	1.8	2.4	1.7
	39.0	1.5	1.4	1.8	1.6	2.1	1.7	2.2	1.7	2.2	1.8	2.3	1.7	2.3	1.7
25	10.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.7	2.3
	12.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.6	2.3
	14.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.6	2.2
	16.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.5	2.2
	18.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.5	2.2
	20.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.4	2.1
	21.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.4	2.2	3.4	2.1
	23.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.3	2.2	3.4	2.1
	25.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.3	2.2	3.3	2.1
	27.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.2	2.1	3.3	2.1
	29.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.2	2.1	3.2	2.0
	31.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.1	2.1	3.2	2.1
	33.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.1	2.1	3.1	2.0
	35.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	3.0	2.2	3.0	2.1	3.1	2.0
	37.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.2	3.0	2.1	3.0	2.0
	39.0	1.9	1.7	2.3	1.9	2.6	2.0	2.8	2.1	2.9	2.2	2.9	2.0	3.0	2.0
32	10.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.7	2.9
	12.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.7	2.9
	14.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.6	2.8
	16.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.6	2.8
	18.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.5	2.8
	20.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.4	2.7
	21.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.3	2.9	4.4	2.7
	23.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.2	2.8	4.3	2.7
	25.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.2	2.8	4.3	2.7
	27.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.1	2.8	4.2	2.6
	29.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.1	2.8	4.2	2.6
	31.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	4.0	2.7	4.1	2.6
	33.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	3.9	2.7	4.0	2.6
	35.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.8	2.9	3.9	2.7	4.0	2.6
	37.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.8	3.7	2.8	3.8	2.7	3.9	2.6
	39.0	2.4	2.3	2.9	2.6	3.4	2.8	3.6	2.9	3.7	2.8	3.8	2.6	3.8	2.6
40	10.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.9	3.5
	12.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.8	3.5
	14.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.8	3.5
	16.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.7	3.4
	18.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.6	3.4
	20.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.5	3.4
	21.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.4	3.2	5.5	3.3
	23.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.3	3.2	5.4	3.3
	25.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.2	3.2	5.3	3.3
	27.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.2	3.1	5.3	3.3
	29.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.1	3.1	5.2	3.2
	31.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	5.0	3.1	5.1	3.2
	33.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.8	3.5	4.9	3.0	5.0	3.2
	35.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.7	3.5	4.9	3.0	5.0	3.1
	37.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.7	3.5	4.8	3.0	4.9	3.1
	39.0	3.0	2.8	3.6	3.0	4.2	3.3	4.5	3.4	4.6	3.4	4.7	3.0	4.8	3.1
50	10.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	7.4	4.3
	12.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	7.3	4.3
	14.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	7.2	4.3
	16.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	7.1	4.2
	18.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	7.0	4.2
	20.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	6.9	4.1
	21.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.7	3.9	6.8	4.1
	23.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.6	3.9	6.7	4.1
	25.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.5	3.9	6.6	4.0
	27.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.4	3.8	6.6	4.0
	29.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.3	3.8	6.5	3.9
	31.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.2	3.8	6.4	3.9
	33.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	6.0	4.2	6.1	3.7	6.3	3.9
	35.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	5.9	4.2	6.0	3.7	6.2	3.8
	37.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	5.8	4.2	5.9	3.6	6.1	3.8
	39.0	3.8	3.2	4.5	3.6	5.2	4.0	5.6	4.1	5.7	4.1	5.8	3.6	6.0	3.7

TC: Total Capacity (kW); SHC: Sensible heat capacity (kW)

Unit size	Outdoor °CDB	Indoor air temp.													
		14.0WB		16.0WB		18.0WB		19.0WB		20.0WB		22.0WB		24.0WB	
		20.0DB	23.0DB	26.0DB	27.0DB	28.0DB	30.0DB	32.0DB	TC	SHC	TC	SHC	TC	SHC	TC
63	10.0	4.8	4.0	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.5	5.5	9.0	5.3
	12.0	4.8	4.0	5.7	4.6	6.6	5.1	7.1	5.2	7.6	5.3	8.5	5.5	8.9	5.3

Capacity tables

6 - 2 Heating Capacity Tables

6

FXFQ-B

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
20	-19.8	-20.0	1.5	1.5	1.5	1.5	1.5	1.5
	-18.8	-19.0	1.5	1.5	1.5	1.5	1.5	1.5
	-16.7	-17.0	1.6	1.6	1.6	1.6	1.6	1.6
	-14.7	-15.0	1.7	1.7	1.7	1.7	1.7	1.7
	-12.6	-13.0	1.8	1.8	1.8	1.8	1.8	1.8
	-10.5	-11.0	1.9	1.9	1.9	1.9	1.9	1.9
	-9.5	-10.0	1.9	1.9	1.9	1.9	1.9	1.9
	-8.5	-9.1	2.0	2.0	1.9	1.9	1.9	1.9
	-7.0	-7.6	2.0	2.0	2.0	2.0	2.0	2.0
	-5.0	-5.6	2.1	2.1	2.1	2.1	2.1	2.1
	-3.0	-3.7	2.2	2.2	2.2	2.2	2.2	2.2
	0.0	-0.7	2.3	2.3	2.3	2.3	2.3	2.2
	3.0	2.2	2.5	2.5	2.4	2.4	2.3	2.2
	5.0	4.1	2.5	2.5	2.5	2.4	2.3	2.2
	7.0	6.0	2.6	2.6	2.5	2.4	2.3	2.2
	9.0	7.9	2.7	2.7	2.5	2.4	2.3	2.2
	11.0	9.8	2.8	2.7	2.5	2.4	2.3	2.2
	13.0	11.8	2.8	2.7	2.5	2.4	2.3	2.2
	15.0	13.7	2.8	2.7	2.5	2.4	2.3	2.2
	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9	1.9
25	-18.8	-19.0	1.9	1.9	1.9	1.9	1.9	1.9
	-16.7	-17.0	2.1	2.1	2.0	2.0	2.0	2.0
	-14.7	-15.0	2.2	2.2	2.2	2.2	2.2	2.1
	-12.6	-13.0	2.3	2.3	2.3	2.3	2.3	2.3
	-10.5	-11.0	2.4	2.4	2.4	2.4	2.4	2.4
	-9.5	-10.0	2.5	2.4	2.4	2.4	2.4	2.4
	-8.5	-9.1	2.5	2.5	2.5	2.5	2.5	2.5
	-7.0	-7.6	2.6	2.6	2.6	2.6	2.6	2.6
	-5.0	-5.6	2.7	2.7	2.7	2.7	2.7	2.7
	-3.0	-3.7	2.8	2.8	2.8	2.8	2.8	2.8
	0.0	-0.7	3.0	3.0	3.0	3.0	3.0	3.0
	3.0	2.2	3.1	3.1	3.1	3.1	3.0	2.8
	5.0	4.1	3.3	3.2	3.2	3.1	3.0	2.8
	7.0	6.0	3.4	3.4	3.2	3.1	3.0	2.8
	9.0	7.9	3.5	3.4	3.2	3.1	3.0	2.8
	11.0	9.8	3.6	3.4	3.2	3.1	3.0	2.8
	13.0	11.8	3.6	3.4	3.2	3.1	3.0	2.8
	15.0	13.7	3.6	3.4	3.2	3.1	3.0	2.8
	-19.8	-20.0	2.4	2.4	2.3	2.3	2.3	2.3
	-18.8	-19.0	2.4	2.4	2.4	2.4	2.4	2.4
32	-16.7	-17.0	2.6	2.6	2.6	2.6	2.6	2.5
	-14.7	-15.0	2.7	2.7	2.7	2.7	2.7	2.7
	-12.6	-13.0	2.9	2.8	2.8	2.8	2.8	2.8
	-10.5	-11.0	3.0	3.0	3.0	3.0	3.0	3.0
	-9.5	-10.0	3.1	3.1	3.1	3.1	3.0	3.0
	-8.5	-9.1	3.1	3.1	3.1	3.1	3.1	3.1
	-7.0	-7.6	3.2	3.2	3.2	3.2	3.2	3.2
	-5.0	-5.6	3.4	3.4	3.4	3.4	3.4	3.4
	-3.0	-3.7	3.5	3.5	3.5	3.5	3.5	3.5
	0.0	-0.7	3.7	3.7	3.7	3.7	3.7	3.5
	3.0	2.2	3.9	3.9	3.9	3.9	3.7	3.5
	5.0	4.1	4.1	4.1	4.0	3.9	3.7	3.5
	7.0	6.0	4.2	4.2	4.0	3.9	3.7	3.5
	9.0	7.9	4.3	4.3	4.0	3.9	3.7	3.5
	11.0	9.8	4.5	4.3	4.0	3.9	3.7	3.5
	13.0	11.8	4.5	4.3	4.0	3.9	3.7	3.5
	15.0	13.7	4.5	4.3	4.0	3.9	3.7	3.5
	-19.8	-20.0	3.0	2.9	2.9	2.9	2.9	2.9
	-18.8	-19.0	3.0	3.0	3.0	3.0	3.0	3.0
40	-16.7	-17.0	3.2	3.2	3.2	3.2	3.2	3.2
	-14.7	-15.0	3.4	3.4	3.4	3.4	3.4	3.4
	-12.6	-13.0	3.6	3.6	3.6	3.5	3.5	3.5
	-10.5	-11.0	3.7	3.7	3.7	3.7	3.7	3.7
	-9.5	-10.0	3.8	3.8	3.8	3.8	3.8	3.8
	-8.5	-9.1	3.9	3.9	3.9	3.9	3.9	3.9
	-7.0	-7.6	4.0	4.0	4.0	4.0	4.0	4.0
	-5.0	-5.6	4.2	4.2	4.2	4.2	4.2	4.2
	-3.0	-3.7	4.4	4.4	4.4	4.4	4.4	4.4
	0.0	-0.7	4.7	4.6	4.6	4.6	4.6	4.4
	3.0	2.2	4.9	4.9	4.9	4.8	4.7	4.4
	5.0	4.1	5.1	5.1	5.0	4.8	4.7	4.4
	7.0	6.0	5.2	5.2	5.0	4.8	4.7	4.4
	9.0	7.9	5.4	5.3	5.0	4.8	4.7	4.4
	11.0	9.8	5.6	5.3	5.0	4.8	4.7	4.4
	13.0	11.8	5.6	5.3	5.0	4.8	4.7	4.4
	15.0	13.7	5.6	5.3	5.0	4.8	4.7	4.4
	-19.8	-20.0	3.7	3.7	3.7	3.7	3.7	3.7
	-18.8	-19.0	3.8	3.8	3.8	3.8	3.8	3.8
50	-16.7	-17.0	4.1	4.0	4.0	4.0	4.0	4.0
	-14.7	-15.0	4.3	4.3	4.3	4.2	4.2	4.2
	-12.6	-13.0	4.5	4.5	4.5	4.5	4.5	4.5
	-10.5	-11.0	4.7	4.7	4.7	4.7	4.7	4.7
	-9.5	-10.0	4.8	4.8	4.8	4.8	4.8	4.8
	-8.5	-9.1	4.9	4.9	4.9	4.9	4.9	4.9
	-7.0	-7.6	5.1	5.1	5.1	5.1	5.1	5.1
	-5.0	-5.6	5.3	5.3	5.3	5.3	5.3	5.3
	-3.0	-3.7	5.5	5.5	5.5	5.5	5.5	5.5
	0.0	-0.7	5.9	5.9	5.8	5.8	5.8	5.5
	3.0	2.2	6.2	6.2	6.2	6.1	5.9	5.5
	5.0	4.1	6.4	6.4	6.3	6.1	5.9	5.5
	7.0	6.0	6.6	6.6	6.3	6.1	5.9	5.5
	9.0	7.9	6.8	6.7	6.3	6.1	5.9	5.5
	11.0	9.8	7.0	6.7	6.3	6.1	5.9	5.5
	13.0	11.8	7.1	6.7	6.3	6.1	5.9	5.5
	15.0	13.7	7.1	6.7	6.3	6.1	5.9	5.5

TC: Total Capacity (kW) ; SHC: Sensible heat capacity (kW)

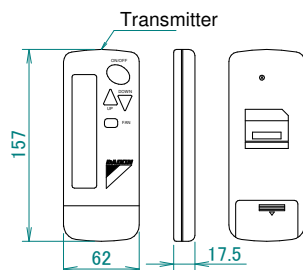
Unit size	Outdoor air temp.		Indoor air temp.: °CDB					
			16.0	18.0	20.0	21.0	22.0	24.0
	°CDB	°CWB	kW	kW	kW	kW	kW	kW
63	-19.8	-20.0	4.7	4.7	4.7	4.7	4.7	4.7
	-18.8	-19.0	4.9	4.9	4.8	4.8	4.8	4.8
	-16.7	-17.0	5.1	5.1	5.1	5.1	5.1	5.1
	-14.7	-15.0	5.4	5.4	5.4	5.4	5.4	5.4
	-12.6	-13.0	5.7	5.7	5.7	5.7	5.7	5.7
	-10.5	-11.0	6.0	6.0	6.0	6.0	6.0	5.9
	-9.5	-10.0	6.1	6.1	6.1	6.1	6.1	6.1
	-8.5	-9.1	6.3	6.3	6.2	6.2	6.2	6.2
	-7.0	-7.6	6.5	6.5	6.4	6.4	6.4	6.4
	-5.0	-5.6	6.8	6.7	6.7	6.7	6.7	6.7
	-3.0	-3.7	7.0	7.0	7.0	7.0	7.0	7.0
	0.0	-0.7	7.5	7.4	7.4	7.4	7.4	7.0
	3.0	2.2	7.9	7.8	7.8	7.7	7.5	7.0
	5.0	4.1	8.1	8.1	8.0	7.7	7.5	7.0
	7.0	6.0	8.4	8.4	8.0	7.7	7.5	7.0
	9.0	7.9	8.7	8.5	8.0	7.7	7.5	7.0
	11.0	9.8	8.9	8.5	8.0	7.7	7.5	7.0
	13.0	11.8	9.0	8.5	8.0	7.7	7.5	7.0
	15.0	13.7	9.0	8.5	8.0	7.7	7.5	7.0
	80	-19.8	-20.0	5.9	5.9	5.9	5.9	5.9
-18.8		-19.0	6.1	6.1	6.0	6.0	6.0	6.0
-16.7		-17.0	6.4	6.4	6.4	6.4	6.4	6.4
-14.7		-15.0	6.8	6.8	6.8	6.7	6.7	6.7
-12.6		-13.0	7.1	7.1	7.1	7.1	7.1	7.1
-10.5		-11.0	7.5	7.5	7.5	7.5	7.4	7.4
-9.5		-10.0	7.7	7.7	7.6	7.6	7.6	7.6
-8.5		-9.1	7.8	7.8	7.8	7.8	7.8	7.8
-7.0		-7.6	8.1	8.1	8.1	8.1	8.0	8.0
-5.0		-5.6	8.4	8.4	8.4	8.4	8.4	8.4
-3.0		-3.7	8.8	8.8	8.7	8.7	8.7	8.7
0.0		-0.7	9.3	9.3	9.3	9.3	9.3	8.7
3.0		2.2	9.8	9.8	9.8	9.7	9.4	8.7
5.0		4.1	10.2	10.1	10.0	9.7	9.4	8.7
7.0		6.0	10.5	10.5	10.0	9.7	9.4	8.7
9.0		7.9	10.8	10.6	10.0	9.7	9.4	8.7
11.0		9.8	11.2	10.6	10.0	9.7	9.4	8.7
13.0		11.8	11.3	10.6	10.0	9.7	9.4	8.7
15.0		13.7	11.3	10.6	10.0	9.7	9.4	8.7
100		-19.8	-20.0	7.4	7.4	7.3	7.3	7.3
	-18.8	-19.0	7.6	7.6	7.6	7.5	7.5	7.5
	-16.7	-17.0	8.0	8.0	8.0	8.0	8.0	8.0
	-14.7	-15.0	8.5	8.5	8.4	8.4	8.4	8.4
	-12.6	-13.0	8.9	8.9	8.9	8.9	8.9	8.8
	-10.5	-11.0	9.4	9.3	9.3	9.3	9.3	9.3
	-9.5	-10.0	9.6	9.6	9.5	9.5	9.5	9.5
	-8.5	-9.1	9.8	9.8	9.7	9.7	9.7	9.7
	-7.0	-7.6	10.1	10.1	10.1	10.1	10.1	10.0
	-5.0	-5.6	10.6	10.5	10.5	10.5	10.5	10.5
	-3.0	-3.7	11.0	11.0	10.9	10.9	10.9	10.9
	0.0	-0.7	11.6	11.6	11.6	11.6	11.6	10.9
	3.0	2.2	12.3	12.3	12.2	12.1	11.7	10.9
	5.0	4.1	12.7	12.7	12.5	12.1	11.7	10.9
	7.0	6.0	13.1	13.1	12.5	12.1	11.7	10.9
	9.0	7.9	13.5	13.3	12.5	12.1	11.7	10.9
	11.0	9.8	14.0	13.3	12.5	12.1	11.7	10.9
	13.0	11.8	14.1	13.3	12.5	12.1	11.7	10.9
	15.0	13.7	14.1	13.3	12.5	12.1	11.7	10.9
	125	-19.8	-20.0	9.4	9.4	9.4	9.4	9.4
-18.8		-19.0	9.7	9.7	9.7	9.7	9.6	9.6
-16.7		-17.0	10.3	10.3	10.2	10.2	10.2	10.2
-14.7		-15.0	10.9	10.8	10.8	10.8	10.8	10.7
-12.6		-13.0	11.4	11.4	11.4	11.4	11.3	11.3
-10.5		-11.0	12.0	12.0	11.9	11.9	11.9	11.9
-9.5		-10.0	12.3	12.2	12.2	12.2	12.2	12.2
-8.5		-9.1	12.5	12.5	12.5	12.5	12.4	12.4
-7.0		-7.6	13.0	12.9	12.9	12.9	12.9	12.8
-5.0		-5.6	13.5	13.5	13.5	13.4	13.4	13.4
-3.0		-3.7	14.1	14.0	14.0	14.0	14.0	13.9
0.0		-0.7	14.9	14.9	14.8	14.8	14.8	13.9
3.0		2.2	15.7	15.7	15.7	15.5	15.0	13.9
5.0		4.1	16.3	16.2	16.0	15.5	15.0	13.9
7.0		6.0	16.8	16.8	16.0	15.5	15.0	13.9
9.0		7.9	17.3	17.0	16.0	15.5	15.0	13.9
11.0		9.8	17.9	17.0	16.0	15.5	15.0	13.9
13.0		11.8	18.1	17.0	16.0	15.5	15.0	13.9
15.0		13.7	18.1	17.0	16.0	15.5	15.0	13.9
140		-19.8	-20.0	10.6	10.6	10.6	10.6	10.5
	-18.8	-19.0	10.9	10.9	10.9	10.9	10.9	10.8
	-16.7	-17.0	11.6	11.6	11.5	11.5	11.5	11.5
	-14.7	-15.0	12.2	12.2	12.2	12.1	12.1	12.1
	-12.6	-13.0	12.9	12.8	12.8	12.8	12.8	12.7
	-10.5	-11.0	13.5	13.5	13.4	13.4	13.4	13.4
	-9.5	-10.0	13.8	13.8	13.7	13.7	13.7	13.7
	-8.5	-9.1	14.1	14.1	14.0	14.0	14.0	14.0
	-7.0	-7.6	14.6	14.5	14.5	14.5	14.5	14.4
	-5.0	-5.6	15.2	15.2	15.1	15.1	15.1	15.1
	-3.0	-3.7	15.8	15.8	15.7	15.7	15.7	15.7
	0.0	-0.7	16.8	16.7	16.7	16.7	16.7	15.7
	3.0	2.2	17.7	17.7	17.6	17.4	16.8	15.7
	5.0	4.1	18.3	18.3	18.0	17.4	16.8	15.7
	7.0	6.0	18.9	18.9	18.0	17.4	16.8	15.7
	9.0	7.9	19.5	19.2	18.0	17.4	16.8	15.7
	11.0	9.8	20.1	19.2	18.0	17.4	16.8	15.7
	13.0	11.8	20.3	19.2	18.0	17.4	16.8	15.7
	15.0	13.7	20.3	19.2	18.0	17.4	16.8	15.7

7 Dimensional drawings

7 - 1 Dimensional Drawings with Accessories

FXFQ-B

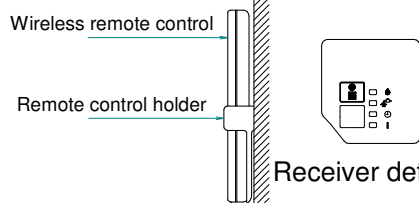
Remote control dimensions



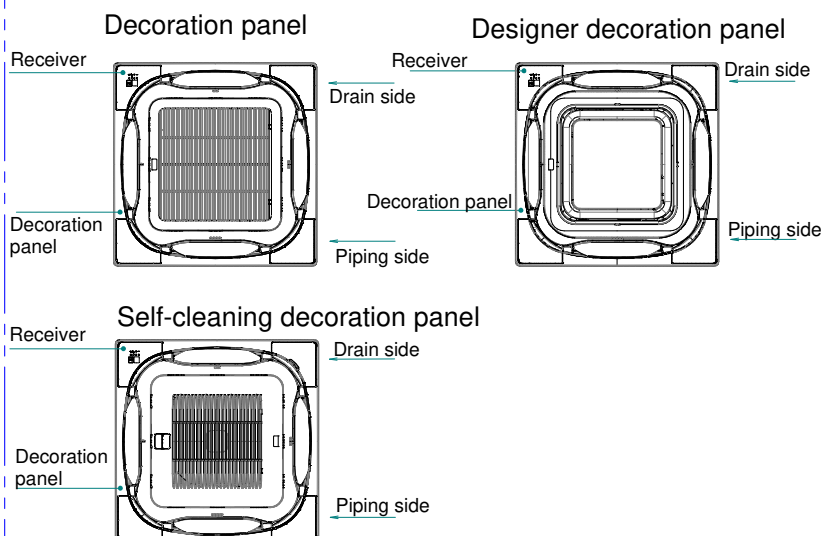
Remote control holder

Installation methods

Installation to wall surface



Installation methods



Front panel	Model name	Option
Decoration panel	BYCQ140E2W1(W)	BRC7FA532F
	BYCQ140E2W1B	BRC7FA532F
Self-cleaning decoration panel	BYCQ140E2GF1B	BRC7FA532F
	BYCQ140E2GF1B	BRC7FA532F
Designer decoration panel	BYCQ140E2P	BRC7FB532F
	BYCQ140E2PB	BRC7FB532F

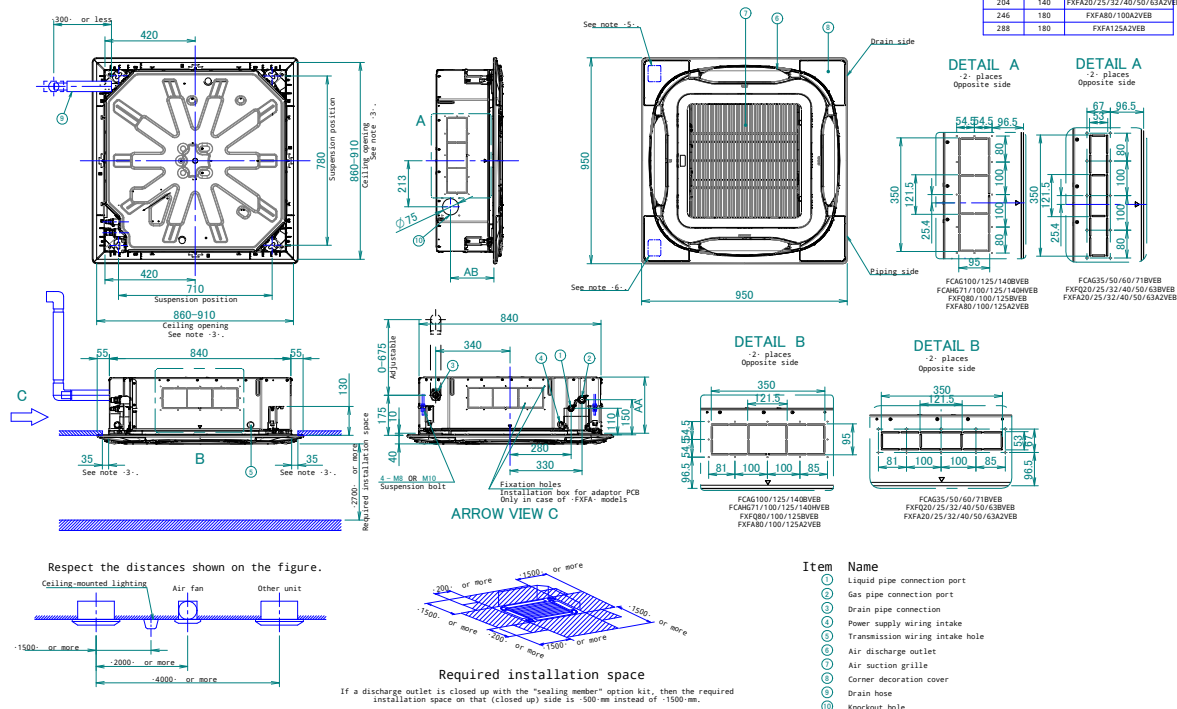
3D121750

FXFQ-B

Notes

1. Location of nameplate
The unit nameplate is located on the control box cover.
2. Location panel nameplate
The location panel nameplate is located on the mixing-side panel frame, under the corner cover.
3. When installing optional accessories, refer to their respective documentation.
4. Make sure the distance between the ceiling and the cassette does not exceed 35 mm.
The maximum ceiling opening is 310 mm.
5. When the conditions in the ceiling exceed 30°C ambient temperature and 90% relative humidity, or when fresh air is induced into the ceiling, additional insulation is required (polyethylene foam, thickness 50 mm).
6. When using a sensor kit, this will be a **mandatory** step. For this location, details, see the drawing of the sensor kit.
7. 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	FCAG71/100/125/140HVEB
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



2D121655C

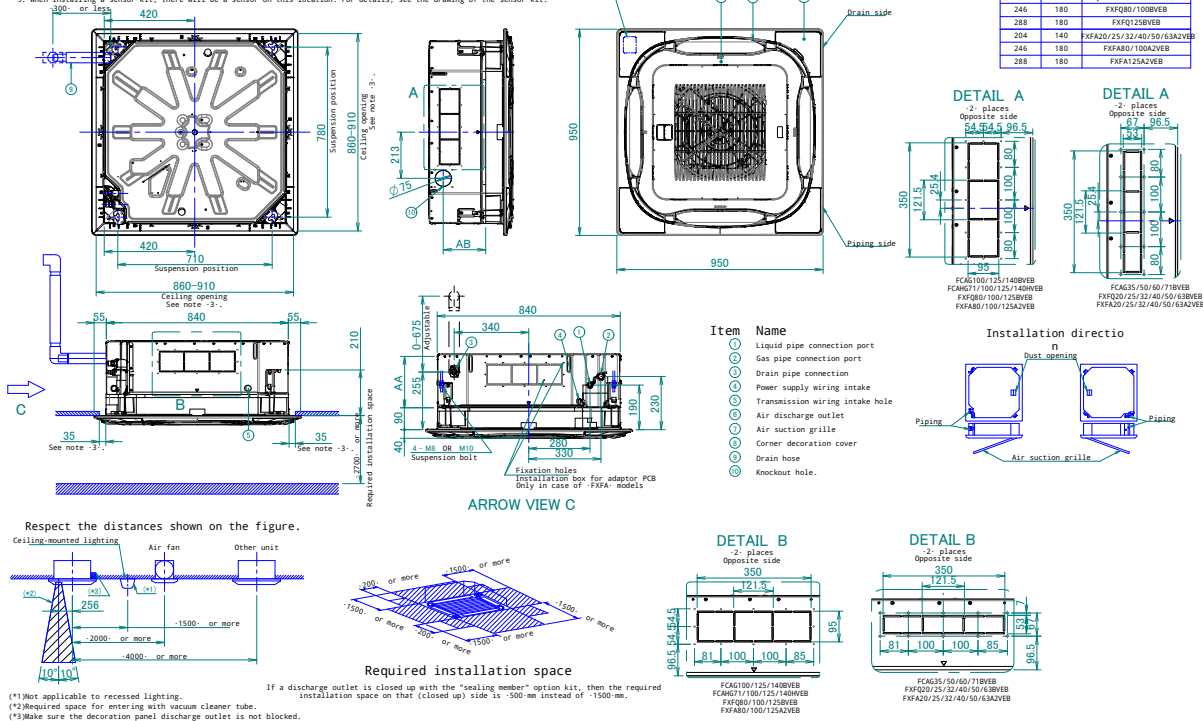
7 Dimensional drawings

7 - 1 Dimensional Drawings with Accessories

FXFQ-B

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 induced 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.

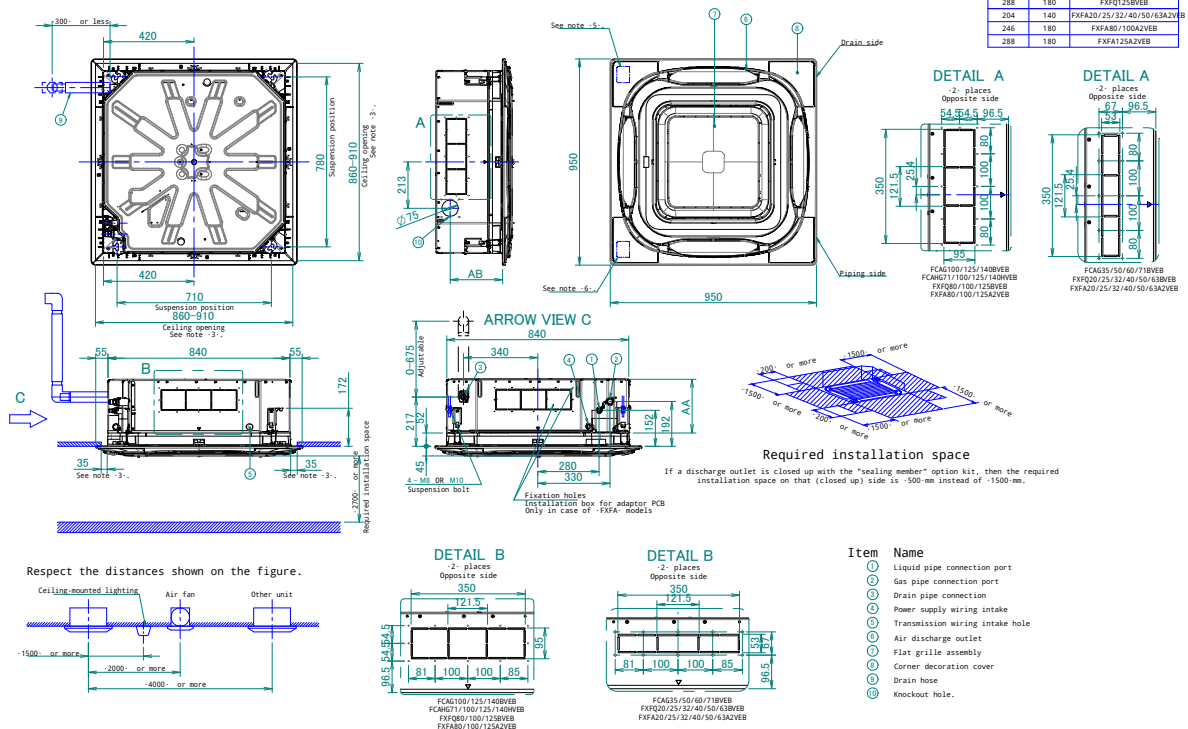


2D121658C

FXFQ-B

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 induced 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.



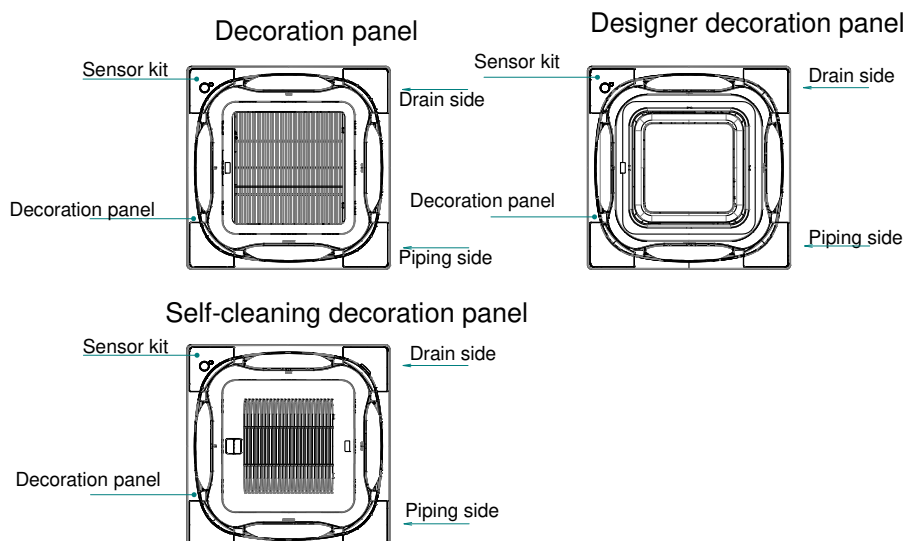
2D121703C

7 Dimensional drawings

7 - 1 Dimensional Drawings with Accessories

FXFQ-B

Installation methods



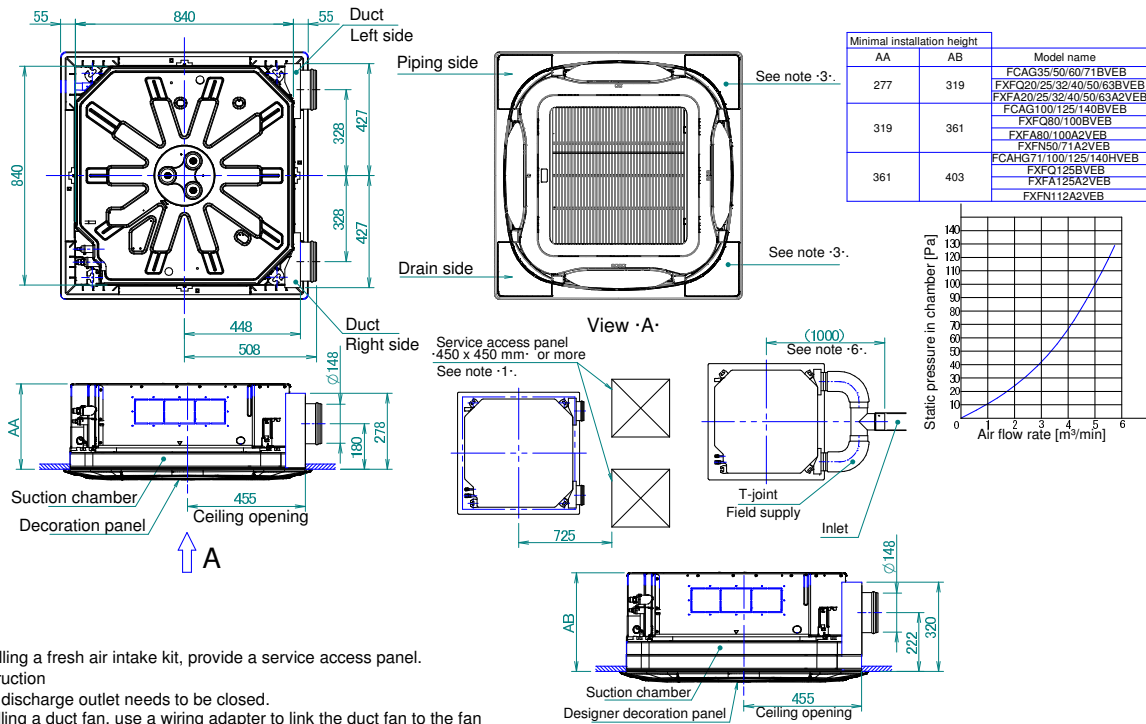
Front panel	Model name	Option
Decoration panel	BYCQ140E2W1(W)	BRYQ140B8
	BYCQ140E2W1B	BRYQ140B8B
Self-cleaning decoration panel	BYCQ140E2GFW1	BRYQ140B8
	BYCQ140E2GFW1B	BRYQ140B8B
Designer decoration panel	BYCQ140E2P	BRYQ140C8
	BYCQ140E2PB	BRYQ140C8B

3D121755

7 Dimensional drawings

7 - 2 Dimensional Drawings with Fresh Air Intake

FXFQ-B



Notes

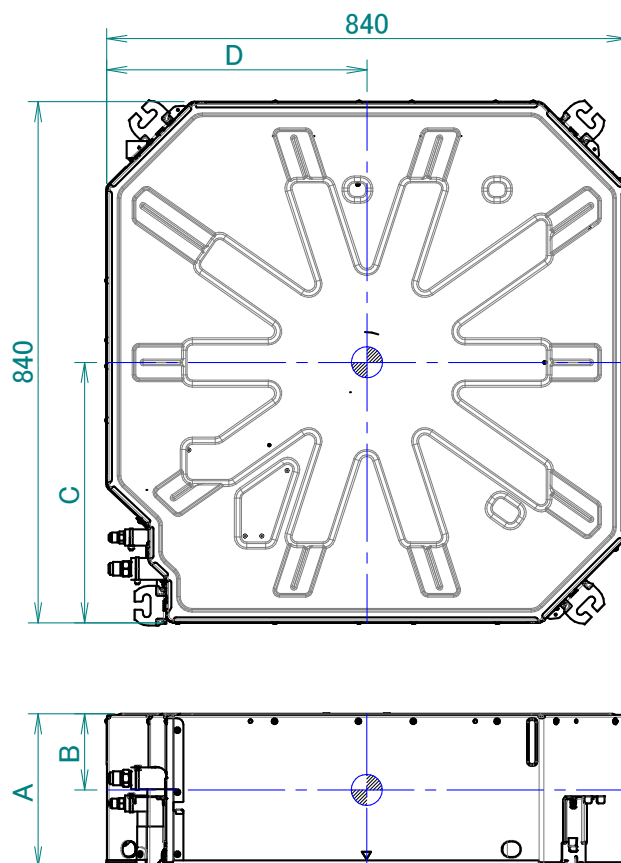
1. When installing a fresh air intake kit, provide a service access panel.
2. Field construction
3. This corner discharge outlet needs to be closed.
4. When installing a duct fan, use a wiring adapter to link the duct fan to the fan of the indoor unit.
5. The intake air flow rate is recommended to be ≤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.

3D121741C

8 Centre of gravity

8 - 1 Centre of Gravity

FXFQ-B



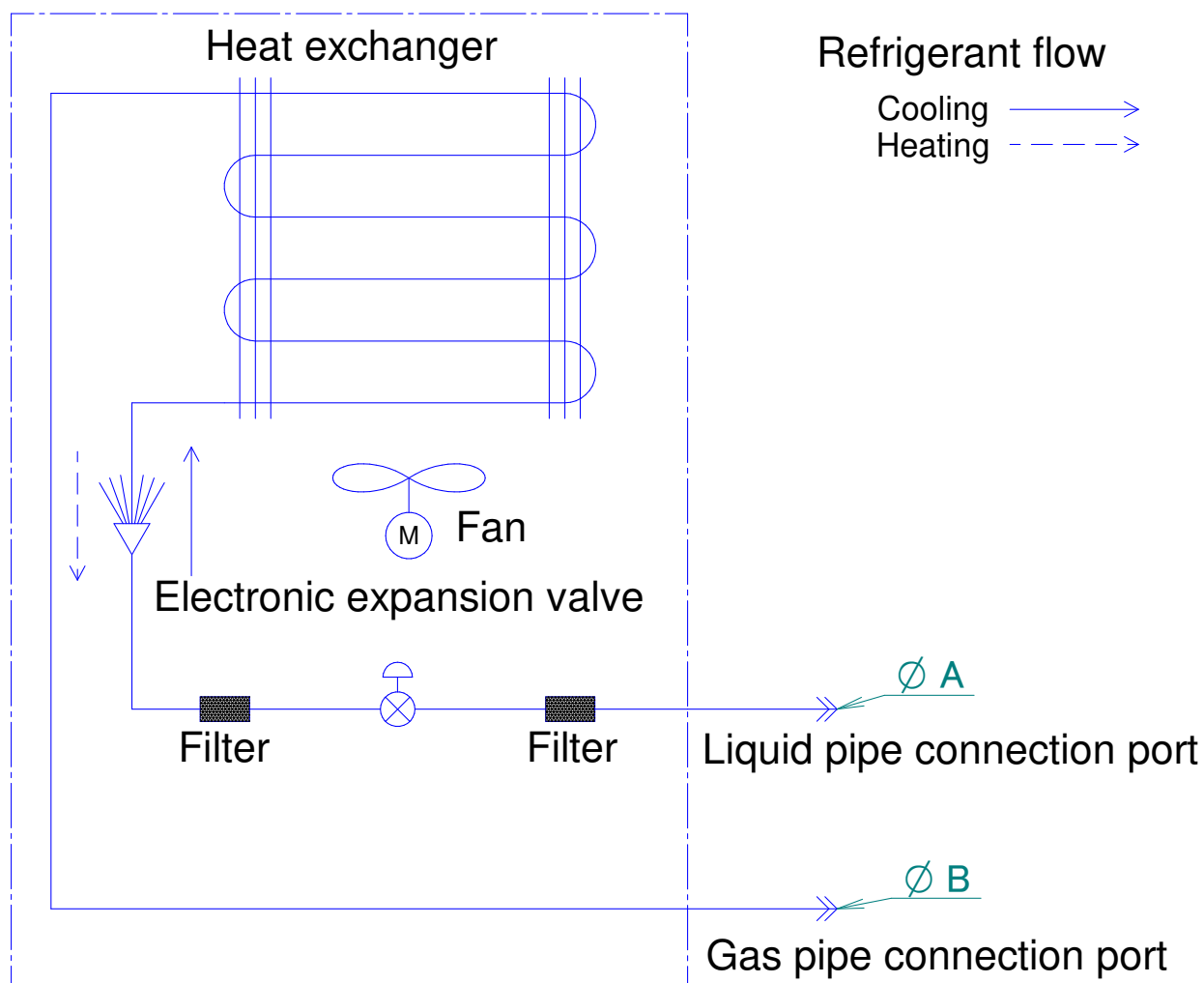
Model	A	B	C	D
FCAG35~71BVEB	204	70	400	405
FCAG100~140BVEB	246	100	400	405
FCAHG71~140HVEB	288	135	400	405
FXFQ20~63BVEB, FXFA20~63A2VEB	204	70	395	400
FXFQ80~100BVEB, FXFA80~100A2VEB	246	100	395	400
FXFQ125BVEB, FXFA125A2VEB	288	135	395	400
FXFN50~71A2VEB	246	113	408	412
FXFN112A2VEB	288	120	403	415

4D121659B

9 Piping diagrams

9 - 1 Piping Diagrams

FXFQ-B

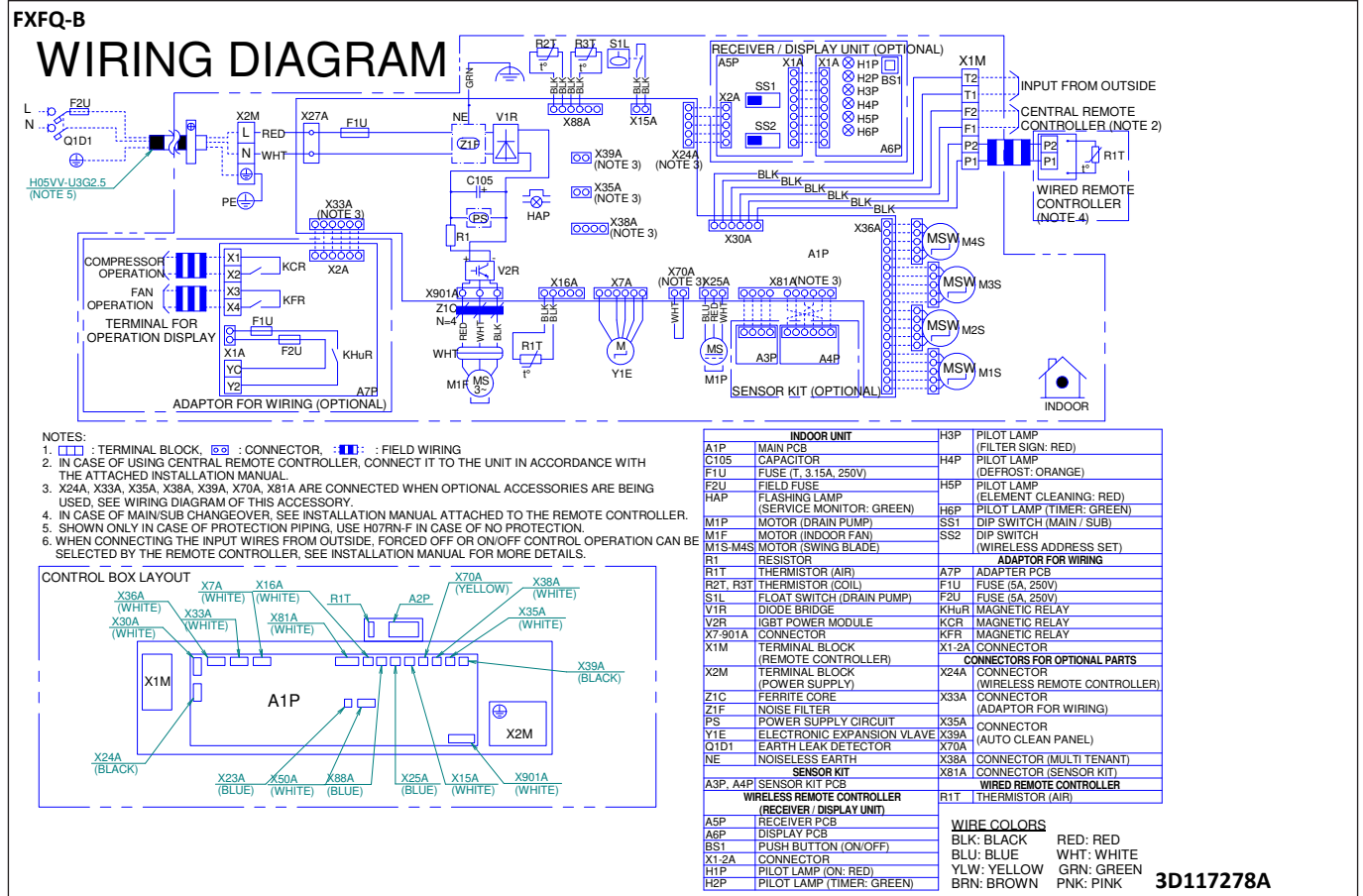


Model	A	B
FXFQ20BVEB	6.35	12.7
FXFQ25BVEB		
FXFQ32BVEB		
FXFQ40BVEB		
FXFQ50BVEB		
FXFQ63BVEB	9.52	15.9
FXFQ80BVEB		
FXFQ100BVEB		
FXFQ125BVEB		

4D121434

10 Wiring diagrams

10 - 1 Wiring Diagrams - Single Phase

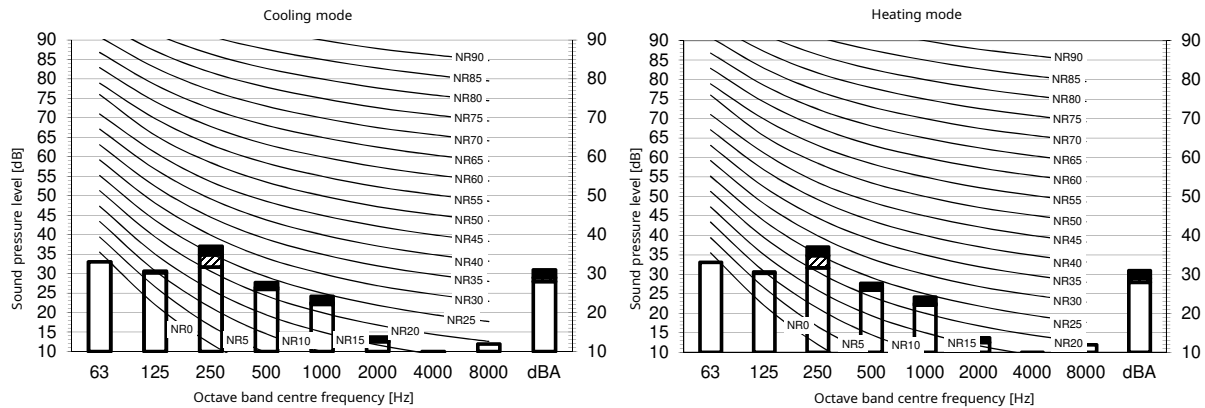


11 Sound data

11 - 1 Sound Pressure Spectrum

11

FXFQ20B

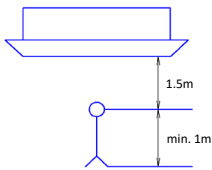


Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

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

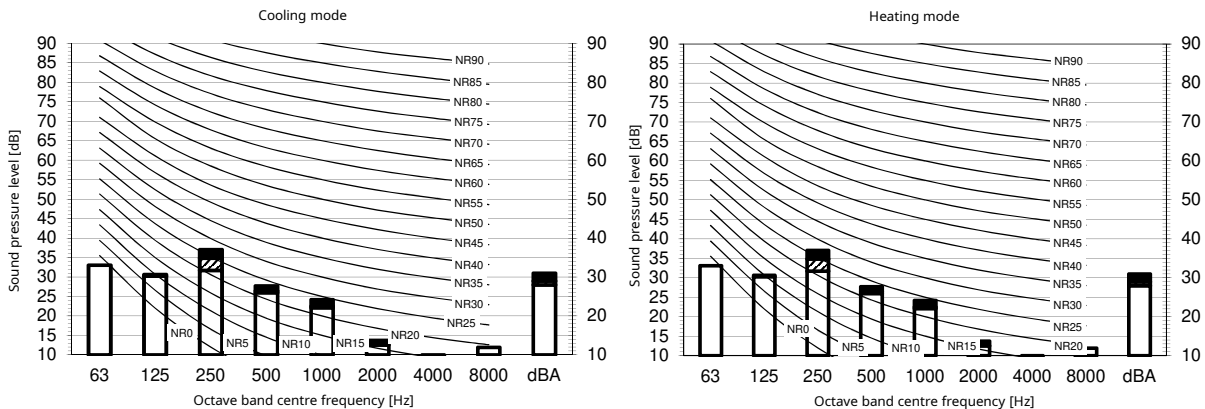
Heating Total dB			
A	B	C	D
dBA	31,0	29,0	28,0

Notes

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

3D121671A

FXFQ25B

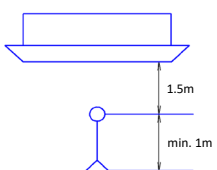


Legend
dBA = A-weighted sound pressure level (A scale according to IEC).

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

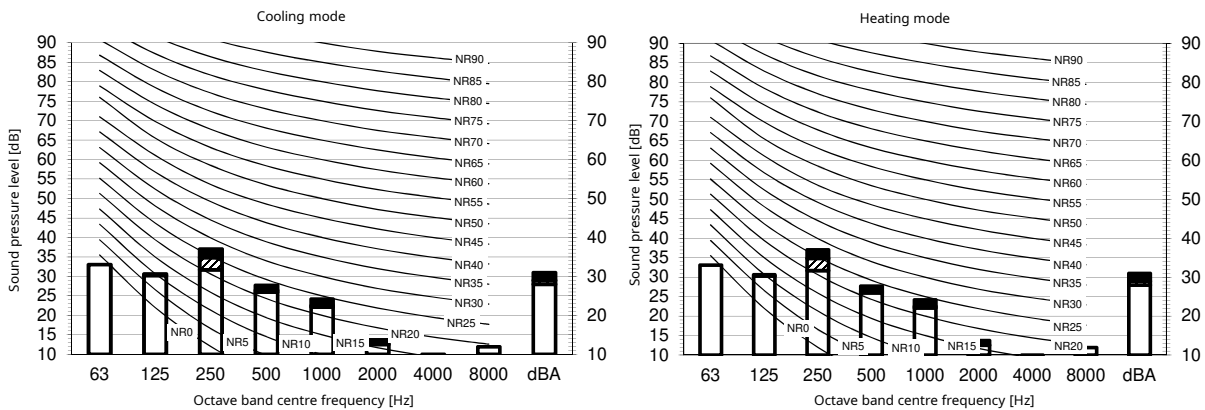
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

3D121672A

11 Sound data

11 - 1 Sound Pressure Spectrum

FXFQ32B



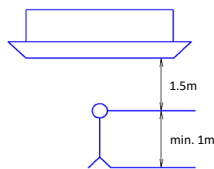
Legend

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

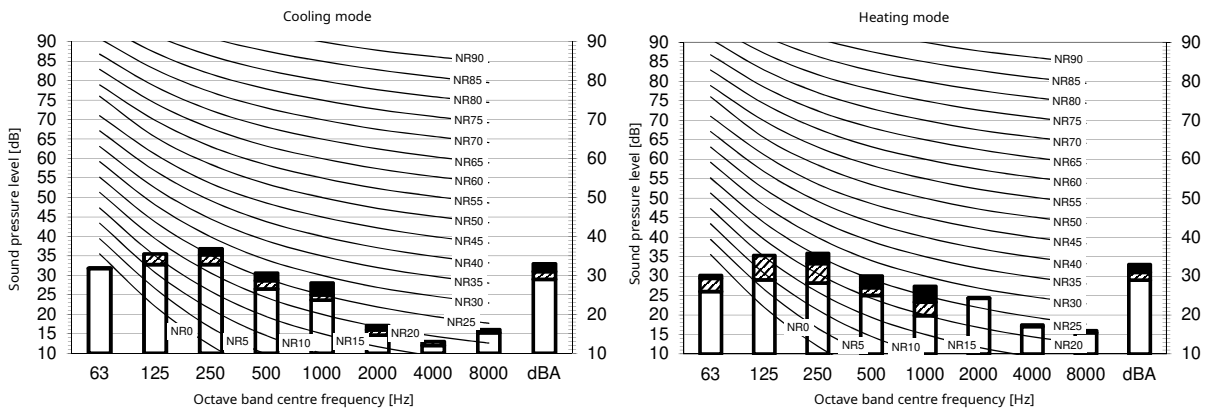
Heating		Total dB	
A	B	C	D
dBA	31,0	29,0	28,0

Notes

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

3D121673A

FXFQ40B



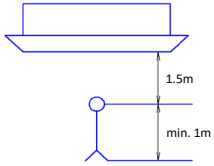
Legend

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

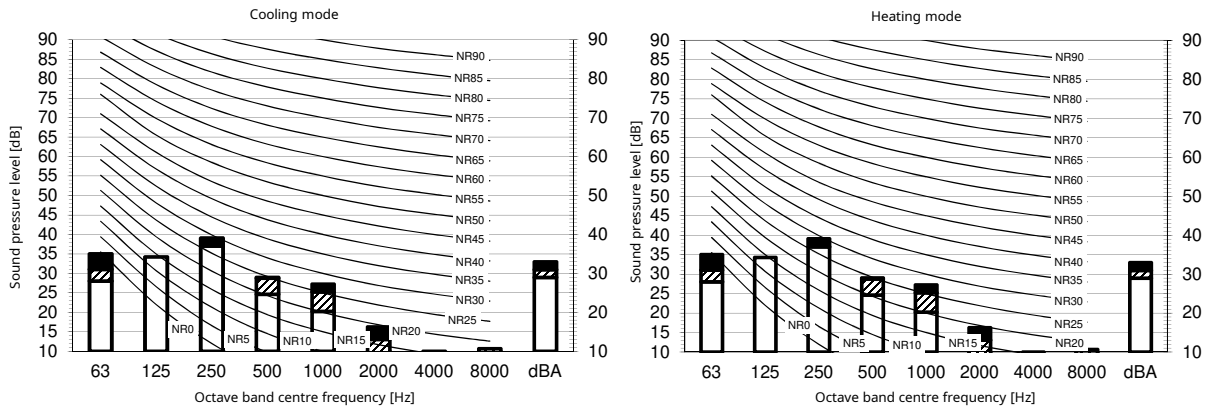
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

3D121674A

11 Sound data

11 - 1 Sound Pressure Spectrum

FXFQ50B



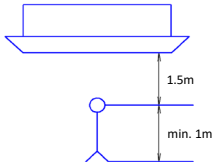
Legend

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

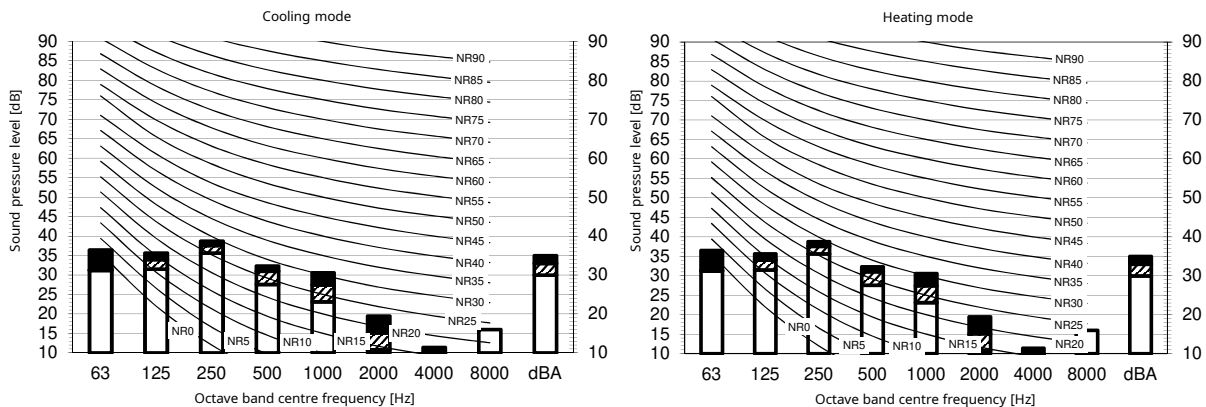
Heating Total dB			
A	B	C	D
dBA	33,0	31,0	29,0

Notes

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

3D121675A

FXFQ63B



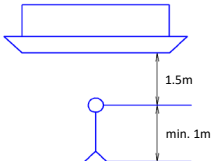
Legend

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

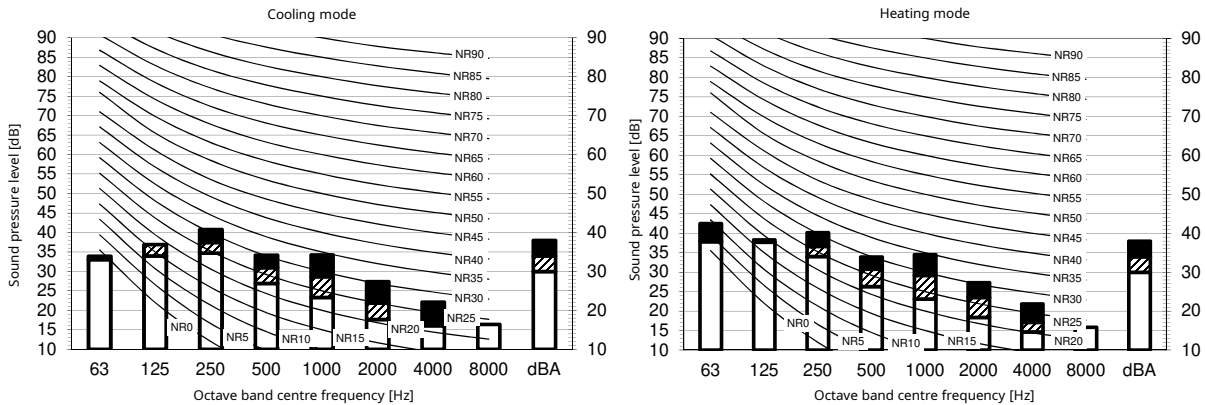
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

3D121676A

11 Sound data

11 - 1 Sound Pressure Spectrum

FXFQ80B



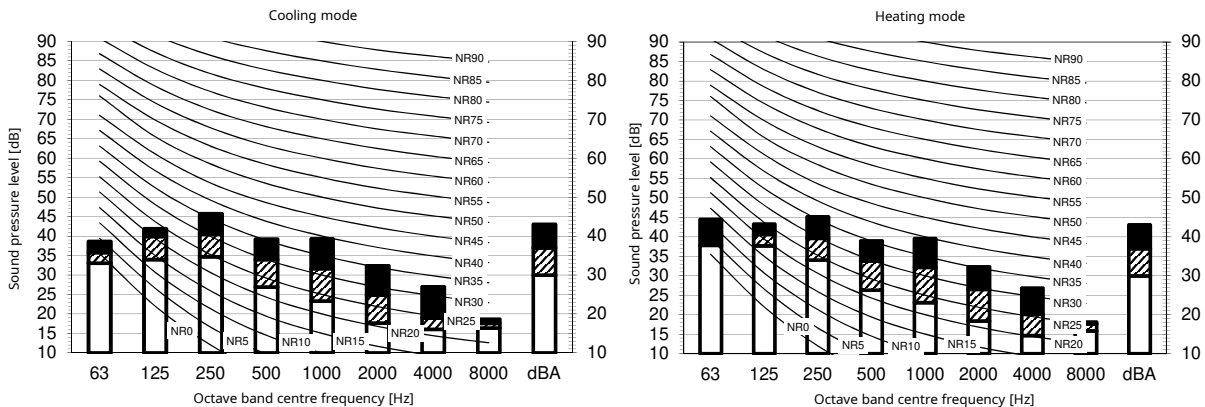
Cooling Total dB			
A	B	C	D
dBA	38,0	34,0	30,0

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

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

3D121677A

FXFQ100B



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

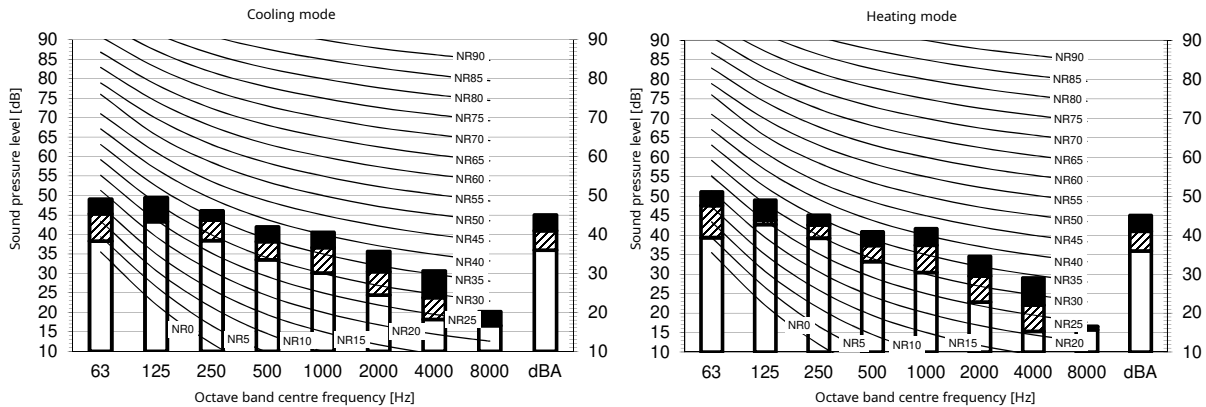
- Notes
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
 - Background noise already taken into account.
 - Operating noise varies depending on operation and ambient conditions.
 - The operation noise measuring method is in accordance with JISC9612.
 - Measuring location: anechoic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

3D121678A

11 Sound data

11 - 1 Sound Pressure Spectrum

FXFQ125B



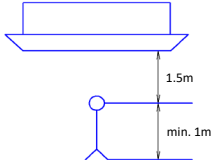
Legend

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

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

3D121679A

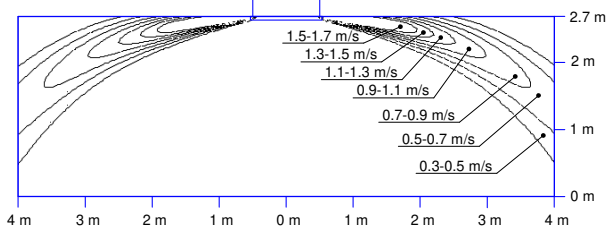
12 Air flow patterns

12 - 1 Air flow pattern - Cooling and Heating

FXFQ20-32B

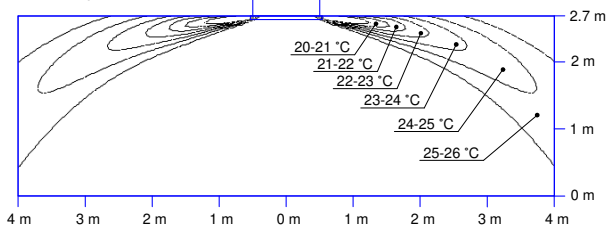
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



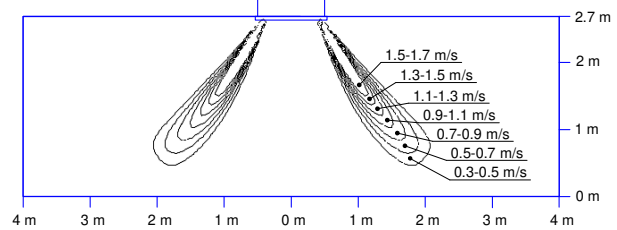
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



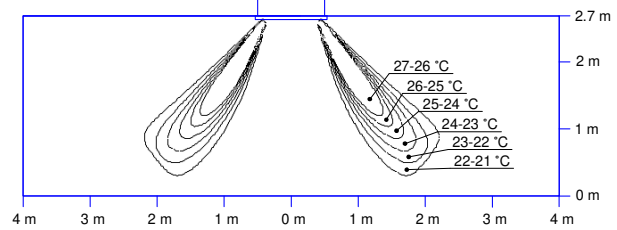
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round

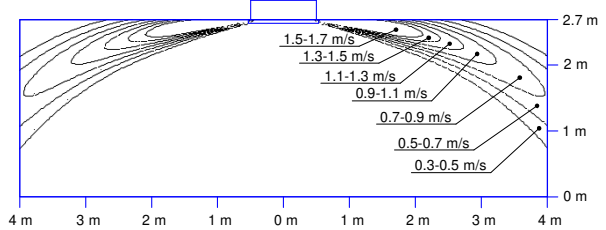


3D121627A

FXFQ40B

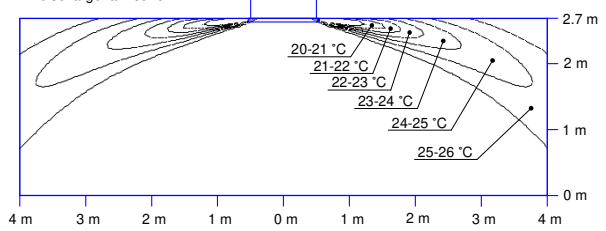
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



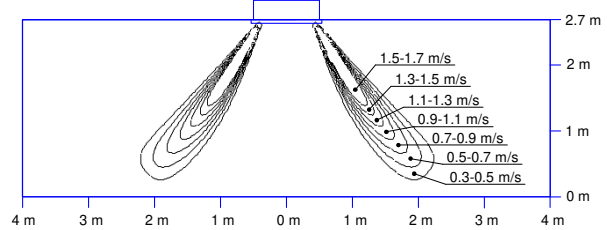
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



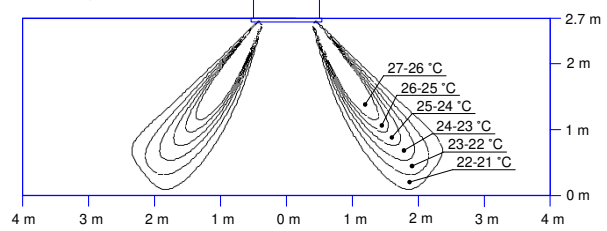
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



3D121620A

12 Air flow patterns

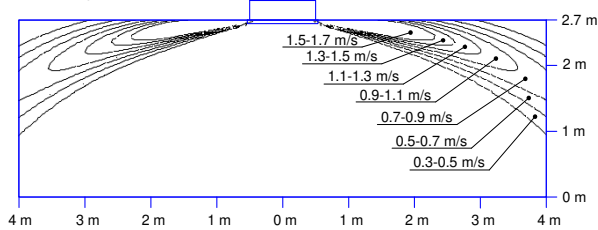
12 - 1 Air flow pattern - Cooling and Heating

12

FXFQ50B

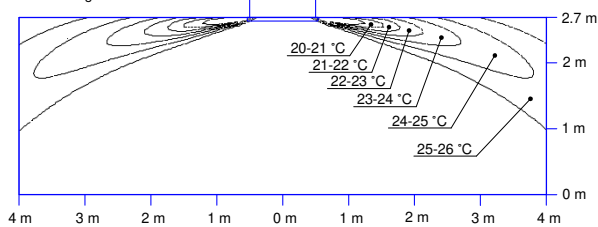
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



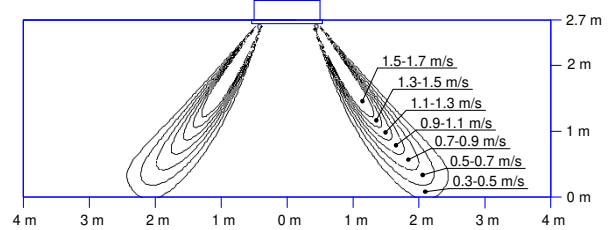
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



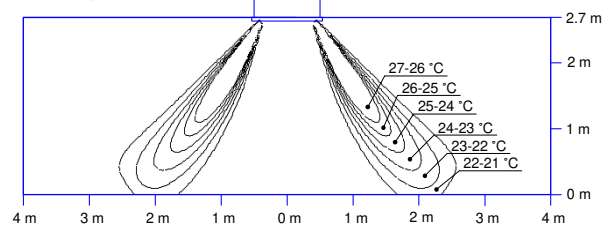
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round

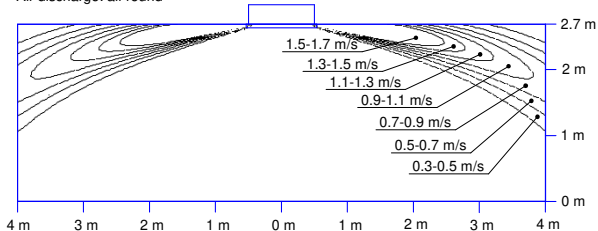


3D121621A

FXFQ63B

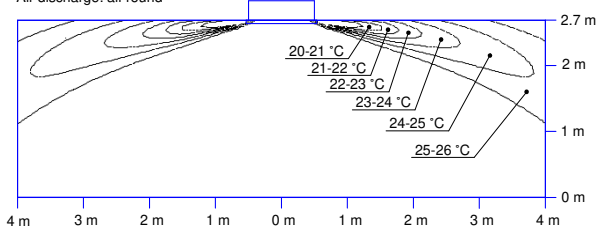
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



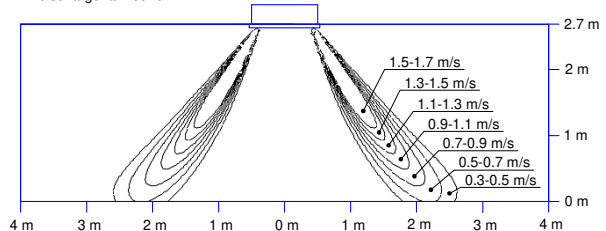
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



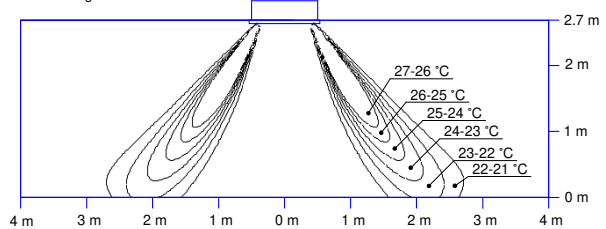
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



3D121628A

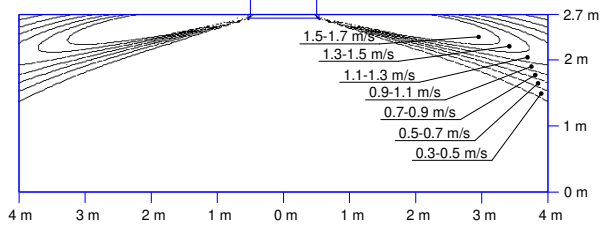
12 Air flow patterns

12 - 1 Air flow pattern - Cooling and Heating

FXFQ80B

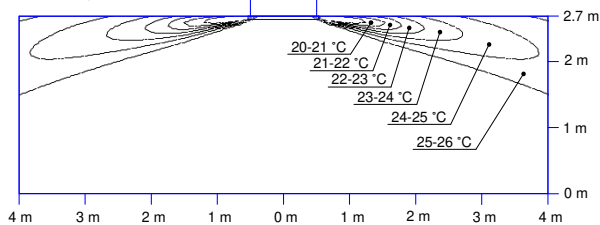
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



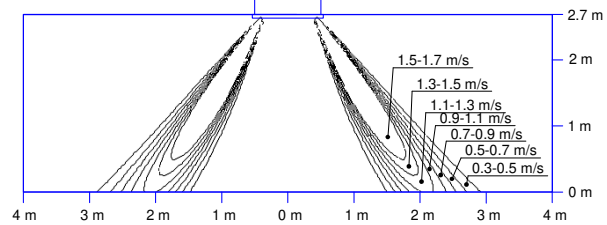
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



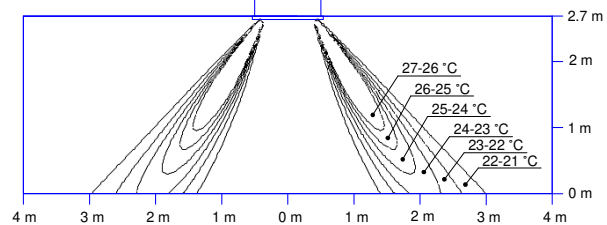
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round

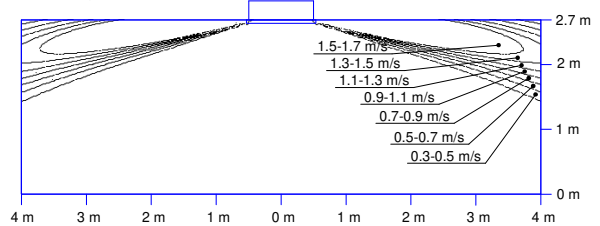


3D121622A

FXFQ100B

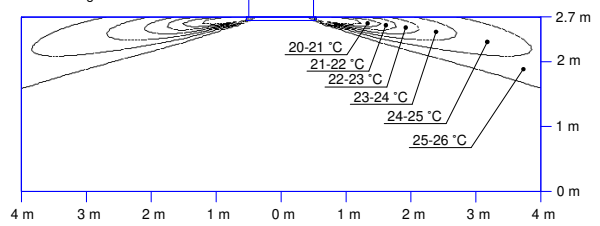
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



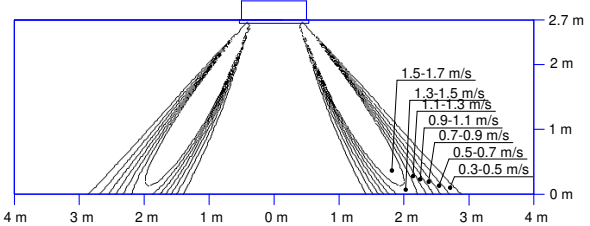
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



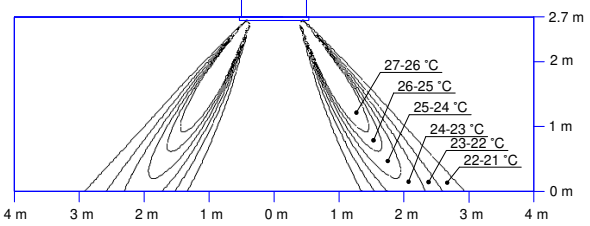
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



3D121629A

12 Air flow patterns

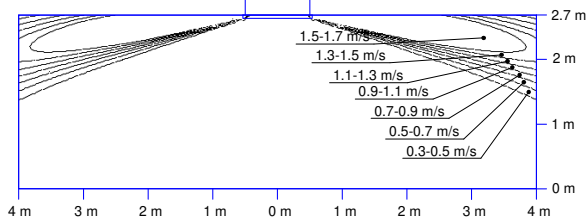
12 - 1 Air flow pattern - Cooling and Heating

FXFQ125B

12

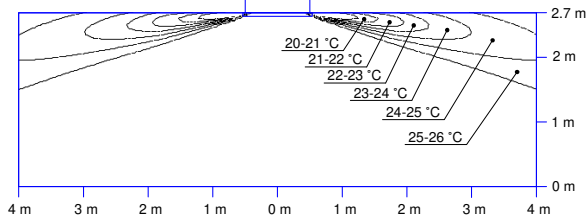
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



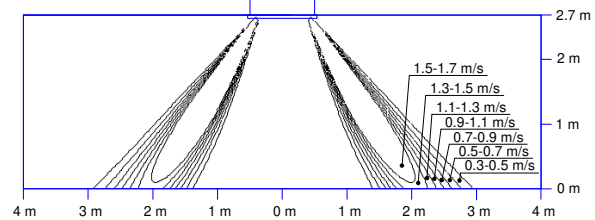
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



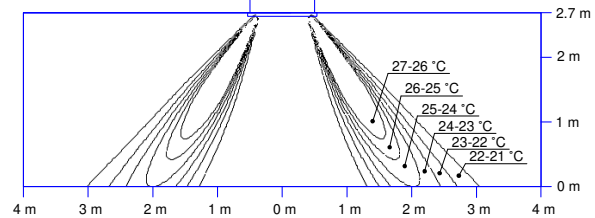
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round

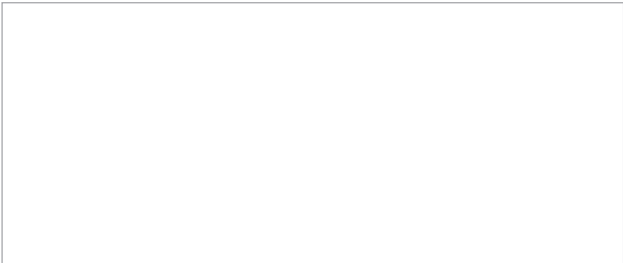


Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



3D121630A



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02/2022



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