

Air Conditioning Technical Data

FXFQ-B



- > FXFQ20BVEB
- > FXFQ25BVEB
- > FXFQ32BVEB
- > FXFQ40BVEB
- > FXFQ50BVEB
- > FXFQ63BVEB

- > FXFQ80BVEB
- > FXFQ100BVEB
- > FXFQ125BVEB

TABLE OF CONTENTS

FXFQ-B

1	Features	2
2	Specifications	3
	Technical Specifications	3
	Electrical Specifications	4
3	Electrical data	5
4	Safety device settings	6
5	Options	7
6	Capacity tables	8
	Cooling Capacity Tables	8
	Heating Capacity Tables	9
7	Dimensional drawings	10
	Dimensional Drawings with Accessories	10
	Dimensional Drawings with Fresh Air Intake	13
8	Centre of gravity	14
9	Piping diagrams	15
10	Wiring diagrams	16
	Wiring Diagrams - Single Phase	16
11	Sound data	17
	Sound Pressure Spectrum	17
12	Air flow patterns	22
	Air Flow Pattern - Cooling	22

1 Features

360° air discharge for optimum efficiency and comfort

- Optional automatic filter cleaning panel results in higher efficiency & comfort and lower maintenance costs. 2 filters available: standard filter and finer mesh filter
- 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



Home leave operation



Fan only



Auto-cleaning filter



Draught prevention



Auto cooling-heating changeover



Whisper quiet



Ceiling soiling prevention



Individual flap control



Vertical auto swing



Fan speed steps



Dry programme



Air filter



Weekly timer



Infrared remote control



Wired remote control



Centralised control



Auto-restart



Self diagnosis



Multi tenant



Drain pump kit

2 Specifications

2-1 Technical Specifications					FXFQ20B	FXFQ25B	FXFQ32B	FXFQ40B	FXFQ50B	FXFQ63B	FXFQ80B	FXFQ100 B	FXFQ125 B
Cooling capacity	Sensible capacity		Nom.	kW	1.80	2.10	2.80	3.40	4.10	5.20	6.50	7.80	9.80
	Latent capacity		Nom.	kW	0.400	0.700	0.800	1.10	1.50	1.90	2.50	3.40	4.20
	Total capacity		Nom.	kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
Heating capacity	Total capacity		Nom.	kW	2.50	3.20	4.00	5.00	6.30	8.00	10.0	12.5	16.0
Power input - 50Hz	Cooling		Nom.	kW	0.040				0.050	0.060	0.090	0.120	0.190
	Heating		Nom.	kW	0.040				0.050	0.060	0.090	0.120	0.190
Power input - 60Hz	Cooling		Nom.	kW	0.04				0.05	0.06	0.09	0.12	0.19
	Heating		Nom.	kW	0.04				0.05	0.06	0.09	0.12	0.19
Dimensions	Unit	Height	mm	204							246		288
		Width	mm	840									
		Depth	mm	840									
	Packed unit	Height	mm	220							260		300
		Width	mm	880									
		Depth	mm	880									
Weight	Unit			kg	18.0			19.0	21.0		24.0		26.0
	Packed unit			kg	21			22	24		27		29
Casing	Material				Galvanised steel plate								
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								
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		14	17	
	Face area			m²	0.278			0.366	0.371		0.464	0.556	
	Stages	Quantity			9			12		15	18		
	Empty tubeplate hole			0									
	Tube type				Ø5 HI-XA								
	Fin	Type			Cross fin coil (Multi slit fins and Ø5HI-XA tubes)								
Fan	Type				Turbo fan								
	Quantity				1								
	Air flow rate - 50Hz	Cooling	High	m³/min	12.8			14.8	15.1	16.6	23.3	27.8	31.6
			Medium	m³/min	10.7			12.6	12.9	13.4	19.2	20.4	26.0
			Low	m³/min	8.9			10.4	10.7		13.5	13.0	19.8
		Heating	High	m³/min	12.8			14.8	15.1	16.6	22.5	27.8	30.3
			Medium	m³/min	10.7			12.6	12.9	13.4	18.5	20.4	24.9
Low			m³/min	8.9			10.4	10.7		13.0		18.9	
Fan motor	Quantity				1								
	Model				DFB05A2VB						DFB11A2VB		
	Speed	Steps			5								
	Output	Max	W	-							106		
Air filter	Type				Resin net								

2 Specifications

2-1 Technical Specifications				FXFQ20B	FXFQ25B	FXFQ32B	FXFQ40B	FXFQ50B	FXFQ63B	FXFQ80B	FXFQ100 B	FXFQ125 B
Sound power level	Cooling	High	dBA	49.0			51.0		53.0	55.0	60.0	61.0
Sound pressure level	Cooling	Medium	dBA	-								
		High	dBA	31.0		33.0		35.0	38.0	43.0	45.0	
		Nom.	dBA	29.0		31.0		33.0	34.0	37.0	41.0	
		Low	dBA	28.0		29.0		30.0			36.0	
	Heating	High	dBA	31.0		33.0		35.0	38.0	43.0	45.0	
		Nom.	dBA	29.0		31.0		33.0	34.0	37.0	41.0	
		Low	dBA	28.0		29.0		30.0			36.0	
Refrigerant	Type			R-410A								
	GWP			2,087.5								
Piping connections	Liquid	Type		Flare connection								
		OD	mm	6,35					9,52			
	Gas	Type		Flare connection								
		OD	mm	12.7						15.9		
	Drain			VP25 (O.D. 32 / I.D. 25)								
	Heat insulation			Foamed polystyrene / Foamed polyethylene								
	Sound absorbing insulation			Foamed polyurethane								
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 / BRC1H51(9W/S/K7 / BRC2E52C7 / BRC3E52C7								
	Simplified wired remote control for hotel applications			-								

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;

2-2 Electrical Specifications				FXFQ20B	FXFQ25B	FXFQ32B	FXFQ40B	FXFQ50B	FXFQ63B	FXFQ80B	FXFQ100B	FXFQ125B
Power supply	Phase			1~								
	Frequency		Hz	50/60								
	Voltage		V	220-240/220								

Notes

Cooling: indoor temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB

Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB

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.

The sound power level is an absolute value indicating the power which a sound source generates.

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

Maximum allowable voltage range variation between phases is 2%.

Contains fluorinated greenhouse gases

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	FXFQ80-125BVEB
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		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 ⑭	✓	✓
Sensor kit (for designer decoration panel)		Black BRYQ140C8B ⑮	✓	✓
Extension wire harness		EWHAR1 ⑰	✓	✓
Wireless remote control		BRC7FA532F ⑥⑩⑲	✓	✓
Wireless remote control		Black BRC7FA532FB ⑥⑩⑲	✓	✓
Wireless remote control (for designer decoration panel)		BRC7FB532F ⑥⑲⑳	✓	✓
Wireless remote control (for designer decoration panel)		Black BRC7FB532FB ⑥⑲⑳	✓	✓
Wired remote control		BRC1D528 ⑱㉔	✓	✓
Wired remote control		BRC1H81W/S7	✓	✓
Wired remote control		BRC1E53A7 ⑬, BRC1E53B7 ⑭, BRC1E53C7 ⑮⑯, BRC1H51(9)W/K/S7	✓	✓
Simplified remote control (with operation mode selector button)		BRC2E52C7 ⑮⑰⑲	✓	✓
Simplified remote control (without operation mode selector button)		BRC3E52C7 ⑮⑰⑲	✓	✓
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 ㉑	✓	✓
Wi-Fi adaptor for smartphones		BRP069B82 ㉑㉒㉓	✓	✓
Intelligent Touch Manager		DCM601A51	✓	✓
Intelligent Tablet Controller		DCC601A51	✓	✓

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 Option -BYCQ140E2GFW1 / BYCQ140E2GFW1B- cannot be used with -VRV IV-S-, multi, and non-inverter split outdoor units.
- ⑤ This option is intended exclusively for use in fine dust environments (e.g. clothing shops). Do not use it 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-.
- ㉑ Only possible in combination with remote control -BRC2/3E52C7, BRC1E53A/B/C7, BRC1H51(9)W/K/S7, BRC1H81W/S7-.
- ㉒ Only possible in combination with wired or wireless remote control (e.g. -BRC1E, BRC1H, BRC7F-)
- ㉓ When combining the Wi-Fi adaptor (-BRP069B82-) with a self-cleaning decoration panel (-BYCQ140E2GFW1 / BYCQ140E2GFW1B-), option -EWHAR1- is required.
- ㉔ This option cannot be combined with -KRP4A53-.
- ㉕ Only possible in combination with -BYCQ140E2P-
- ㉖ Only possible in combination with -BYCQ140E2PB-
- ㉗ The active airflow circulation function is not available for this controller.

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6 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	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
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	2.9		
	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		

6 Capacity tables

6 - 2 Heating Capacity Tables

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
25	-19.8	-20.0	1.9	1.9	1.9	1.9	1.9	1.9
	-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
32	-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
	-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
40	-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
	-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
50	-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
	-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	5.8
	-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	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	9.3
	-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	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

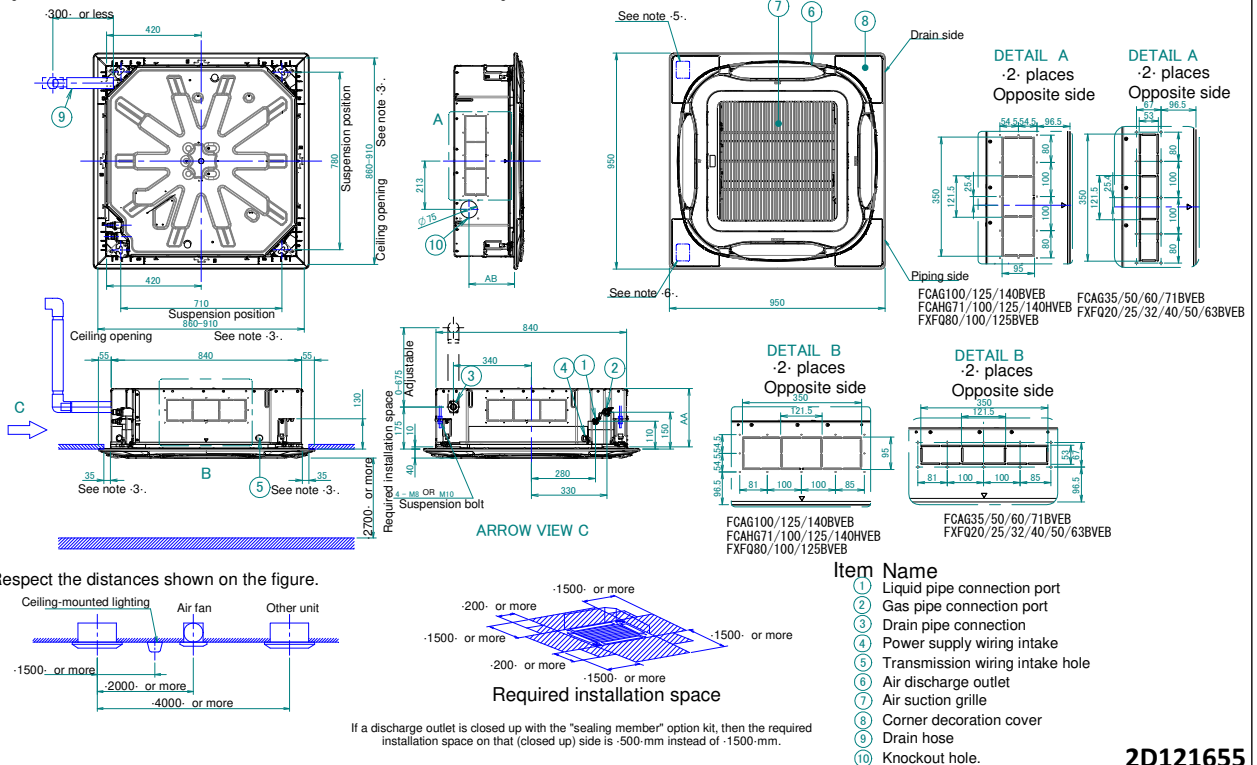
7 Dimensional drawings

7 - 1 Dimensional Drawings with Accessories

FXFQ-B

Notes

- 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.
- When installing optional accessories, refer to their respective documentation.
- Make sure the distance between the ceiling and the cassette does not exceed 35-mm.
The maximum ceiling opening is 910-mm.
- 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).
- When installing a sensor kit, there will be a sensor on this location. For details, see the drawing of the sensor kit.
- When installing a wireless controller, there will be a receiver on this location. For details, see the drawing of the wireless controller.

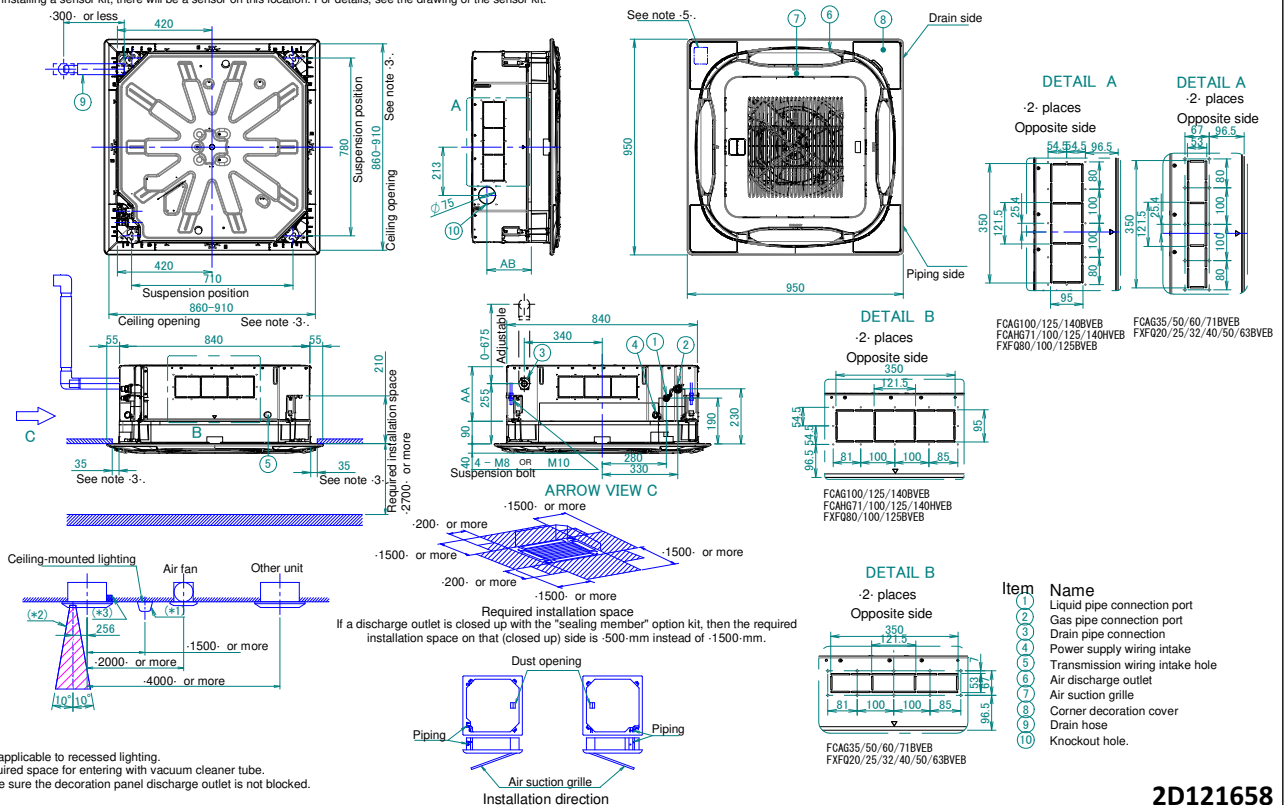


2D121655

FXFQ-B

Notes

- 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.
- When installing optional accessories, refer to their respective documentation.
- Make sure the distance between the ceiling and the cassette does not exceed 35-mm.
The maximum ceiling opening is 910-mm.
- 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).
- When installing a sensor kit, there will be a sensor on this location. For details, see the drawing of the sensor kit.



2D121658

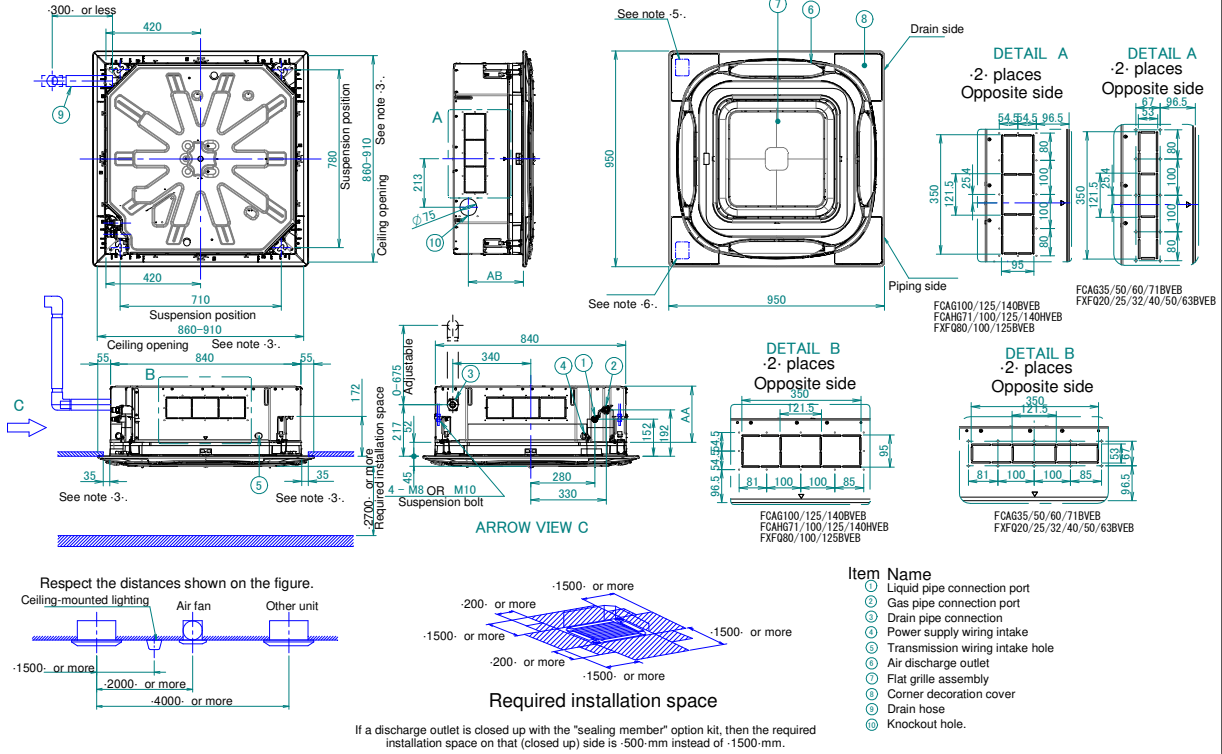
7 Dimensional drawings

7 - 1 Dimensional Drawings with Accessories

FXFQ-B

Notes

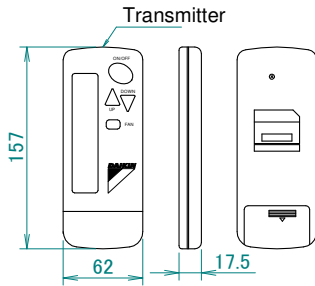
1. Location of nameplate
The unit nameplate is located on the control box cover.
The decoration panel nameplate is located on the piping-side panel frame, under the corner cover.
2. When installing optional accessories, refer to their respective documentation.
3. Make sure the distance between the ceiling 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 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.



2D121703

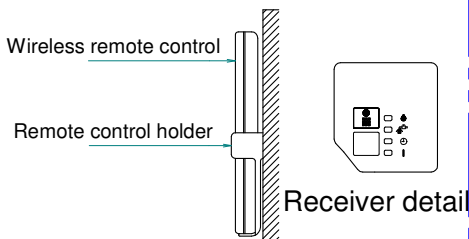
FXFQ-B

Remote control dimensions

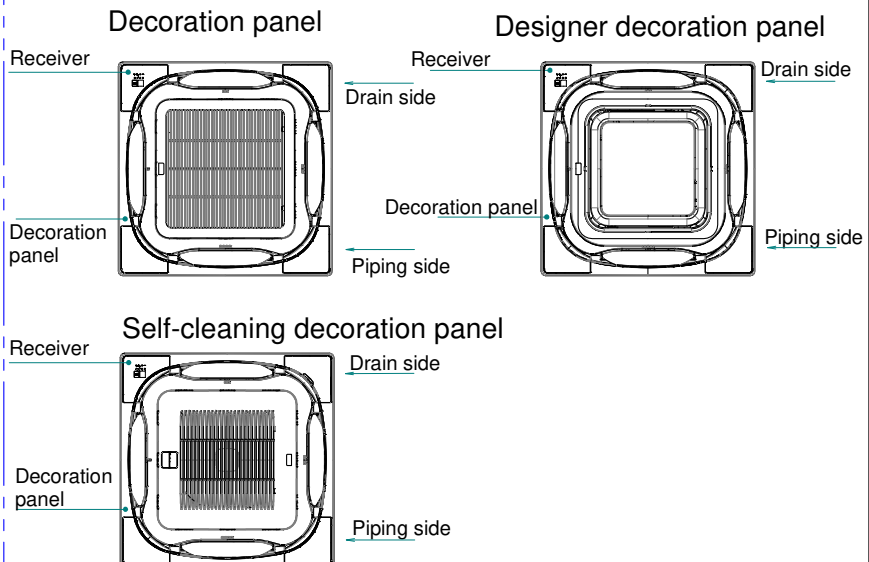


Remote control holder

Installation methods
Installation to wall surface



Installation methods



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

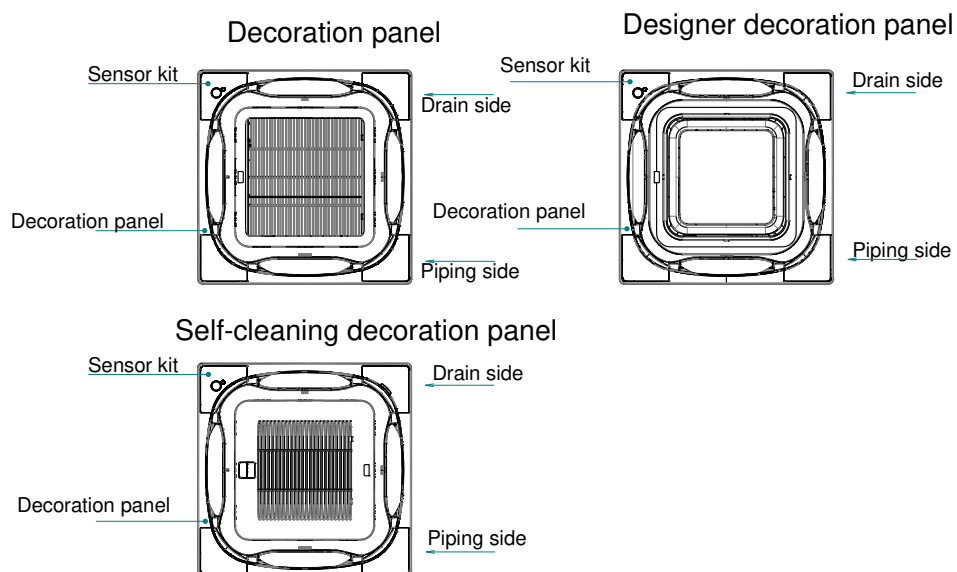
3D121750

7 Dimensional drawings

7 - 1 Dimensional Drawings with Accessories

FXFQ-B

Installation methods



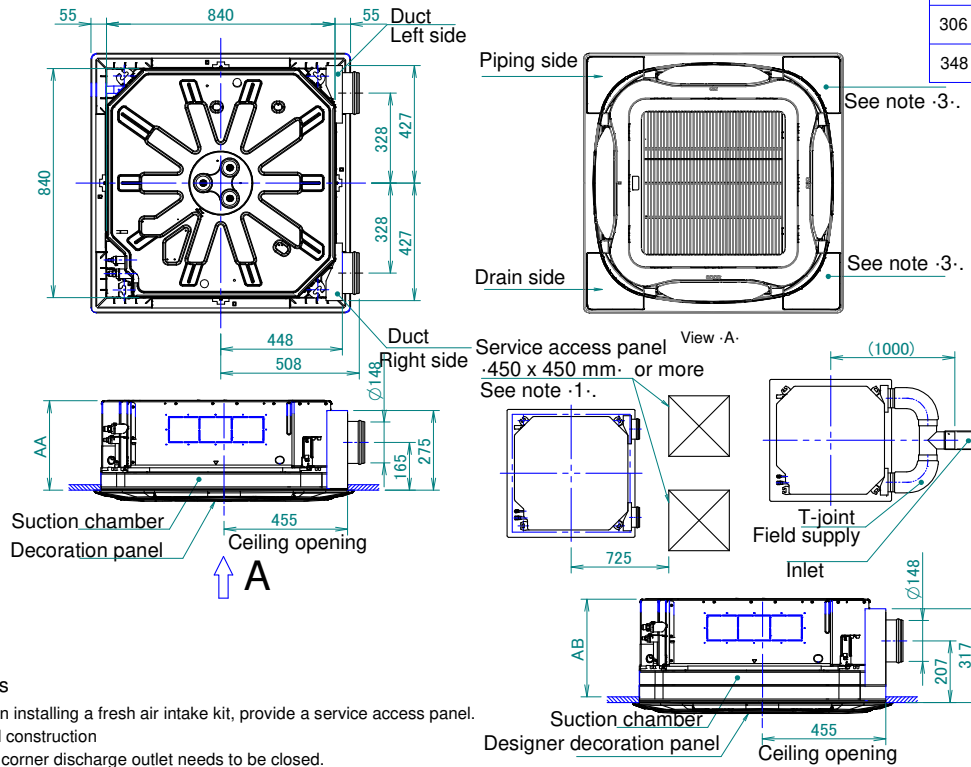
Front panel	Model name	Option
Decoration panel	BYCQ140E2W1(W)	BRYQ140B8
	BYCQ140E2W1B	BRYQ140B8B
Self-cleaning decoration panel	BYCQ140E2GFW1	BRYQ140B8
	BYCQ140E2GFW1B	BRYQ140B8B
Designer decoration panel	BYCQ140E2P	BRYQ140C8
	BYCQ140E2PB	BRYQ140C8B

3D121755

7 Dimensional drawings

7 - 2 Dimensional Drawings with Fresh Air Intake

FXFQ-B



Notes

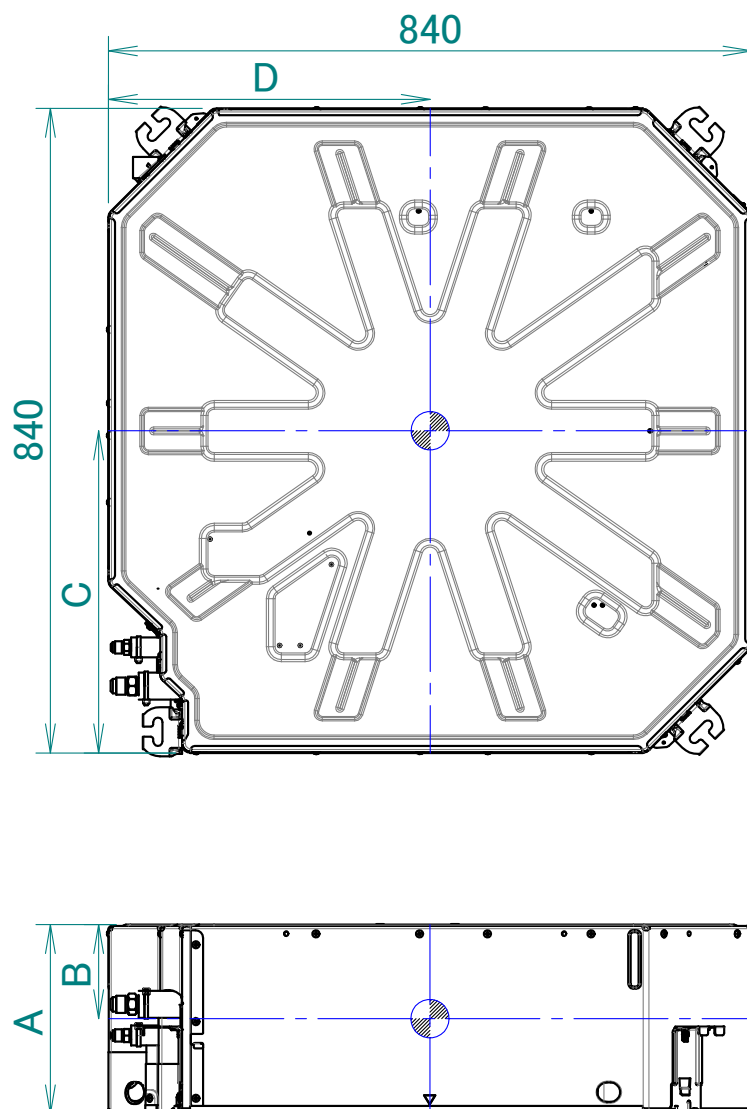
1. When installing a fresh air intake kit, provide a service access panel.
2. Field construction
3. This corner discharge outlet needs to be closed.
4. When installing a duct fan, use a wiring adapter to link the duct fan to the fan of the indoor unit.
5. The intake air flow rate is recommended to be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

3D121741

8 Centre of gravity

8 - 1 Centre of Gravity

FXFQ-B



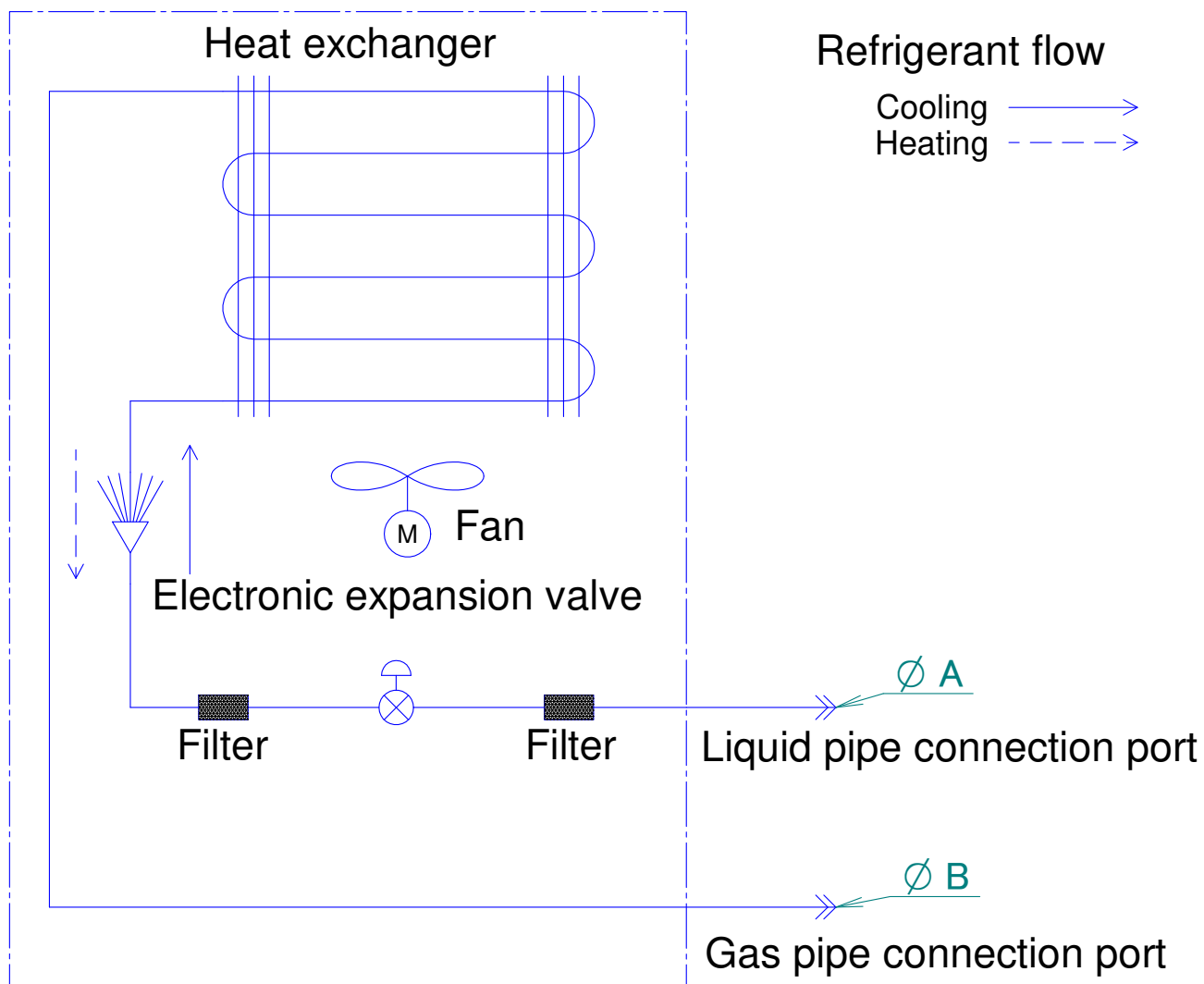
Model	A	B	C	D
FCAG35~71BVEB	204	70	400	405
FCAG100~140BVEB	246	100	400	405
FCAHG71~140HVEB	288	135	400	405
FXFQ20~63BVEB	204	70	395	400
FXFQ80~100BVEB	246	100	395	400
FXFQ125BVEB	288	135	395	400

4D121659

9 Piping diagrams

9 - 1 Piping Diagrams

FXFQ-B



9

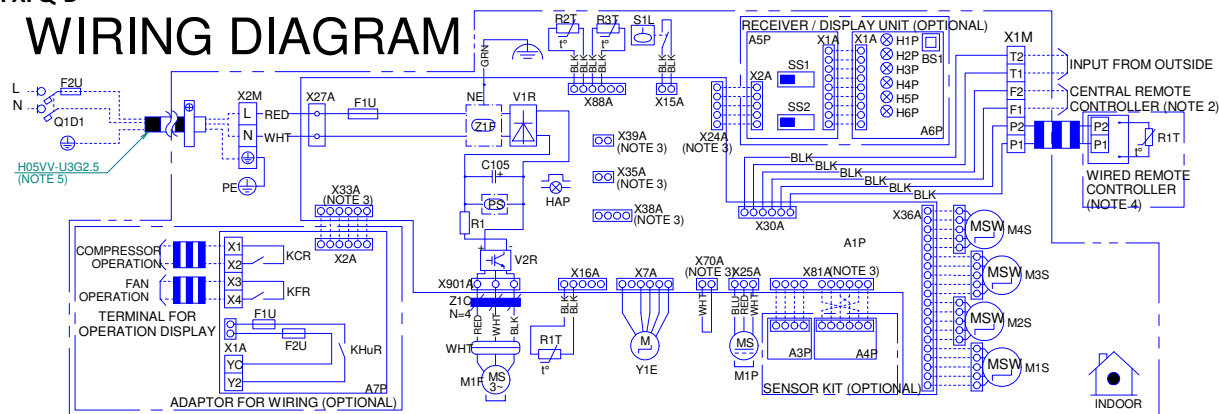
Model	A	B
FXFQ20BVEB	6.35	12.7
FXFQ25BVEB		
FXFQ32BVEB		
FXFQ40BVEB		
FXFQ50BVEB		
FXFQ63BVEB	9.52	15.9
FXFQ80BVEB		
FXFQ100BVEB		
FXFQ125BVEB		

4D121434

10 Wiring diagrams

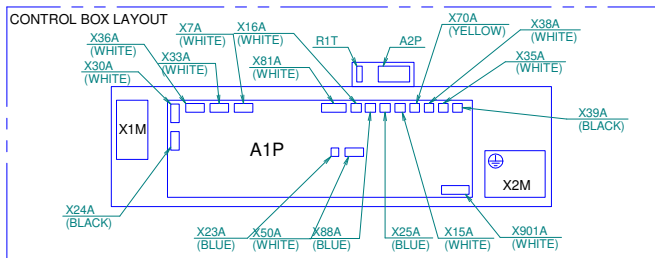
FXFQ-B

WIRING DIAGRAM



NOTES:

- NOTES:
1. : TERMINAL BLOCK : FIELD WIRING
 2. IN CASE OF USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTALLATION MANUAL.
 3. X24A, X33A, X35A, X38A, X39A, X70A, X81A ARE CONNECTED WHEN OPTIONAL ACCESSORIES ARE BEING USED. SEE WIRING DIAGRAM OF THIS ACCESSORY.
 4. IN CASE OF MAINS UNIT CHANGEOVER, SEE INSTALLATION MANUAL ATTACHED TO THE REMOTE CONTROLLER.
 5. IN CASE OF USING A HYDRONIC SYSTEM, IN CASE OF NO PROPER OPERATION, THE REMOTE CONTROLLER CAN BE SELECTED BY THE REMOTE CONTROLLER. SEE INSTALLATION MANUAL FOR MORE DETAILS.



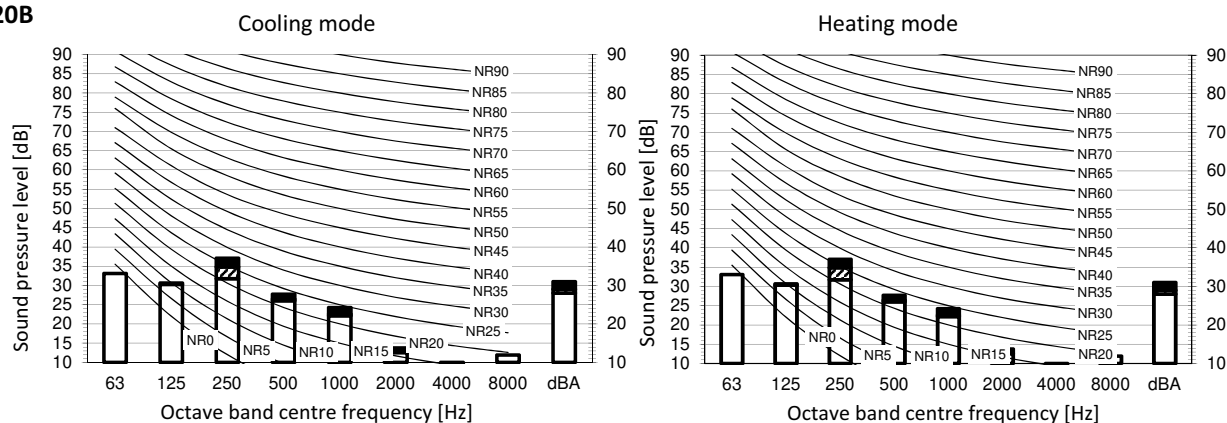
INDOOR UNIT		H3P	PILOT LAMP (FILTER SIGN: RED)
A1P	MAIN PCB	H4P	PILOT LAMP (DEFROST: ORANGE)
C105	CAPACITOR	H5P	PILOT LAMP (ELEMENT CLEANING: RED)
F1U	FUSE (T, 3.15A, 250V)	H6P	PILOT LAMP (TIMER: GREEN)
F2U	FIELD FUSE	SS1	DIP SWITCH (MAIN / SUB)
HAP	FLASHING LAMP	SS2	DIP SWITCH (WIRELESS ADDRESS SET)
M1P	MOTOR (DRAIN PUMP)	ADAPTOR FOR WIRING	
M1F	MOTOR (INDOOR FAN)	A7P	ADAPTER PCB
M1S-M4S	MOTOR (SWING BLADE)	F1U	FUSE (SA, 250V)
R1	RESISTOR	F2U	FUSE (SA, 250V)
R1T	THERMISTOR (AIR)	KHuR	MAGNETIC RELAY
R2T, R3T	THERMISTOR (COIL)	KCR	MAGNETIC RELAY
F1	FLOAT SWITCH (DRAIN PUMP)	KFR	MAGNETIC RELAY
V1R	DIODE BRIDGE	X1-2A	CONNECTOR
V2R	IGBT POWER MODULE	CONNECTORS FOR OPTIONAL PARTS	
X7-901A	CONNECTOR	X2A4	CONNECTOR (WIRELESS REMOTE CONTROLLER)
X1M	TERMINAL BLOCK (REMOTE CONTROLLER)	X33A	CONNECTOR (ADAPTOR FOR WIRING)
X2M	TERMINAL BLOCK (POWER SUPPLY)	X35A	CONNECTOR
Z1C	FERRITE CORE	X39A	(AUTO CLEAN PANEL)
Z1F	NOISE FILTER	X70A	CONNECTOR (MULTI TENANT)
PS	POWER SUPPLY CIRCUIT	X38A	CONNECTOR (SENSOR KIT)
Y1E	ELECTRONIC EXPANSION VALVE	X81A	WIRED REMOTE CONTROLLER
QD1	EARTH LEAK DETECTOR	R1T	THERMISTOR (AIR)
NE	NOISELESS EARTH SENSOR KIT	WIRE COLORS	
A3P, A4P	SENSOR KIT PCB	BLK:	BLACK
WIRELESS REMOTE CONTROLLER (RECEIVER / DISPLAY UNIT)		RED:	RED
A5P	RECEIVER PCB	BLU:	BLUE
A6P	DISPLAY PCB	YLU:	YELLOW
BS1	PUSH BUTTON (ON/OFF)	BRN:	BROWN
X1-2A	CONNECTOR	PNK:	PINK
H1P	PILOT LAMP (ON: RED)		
H2P	PILOT LAMP (TIMER: GREEN)		

3D117278A

11 Sound data

11 - 1 Sound Pressure Spectrum

FXFQ20B

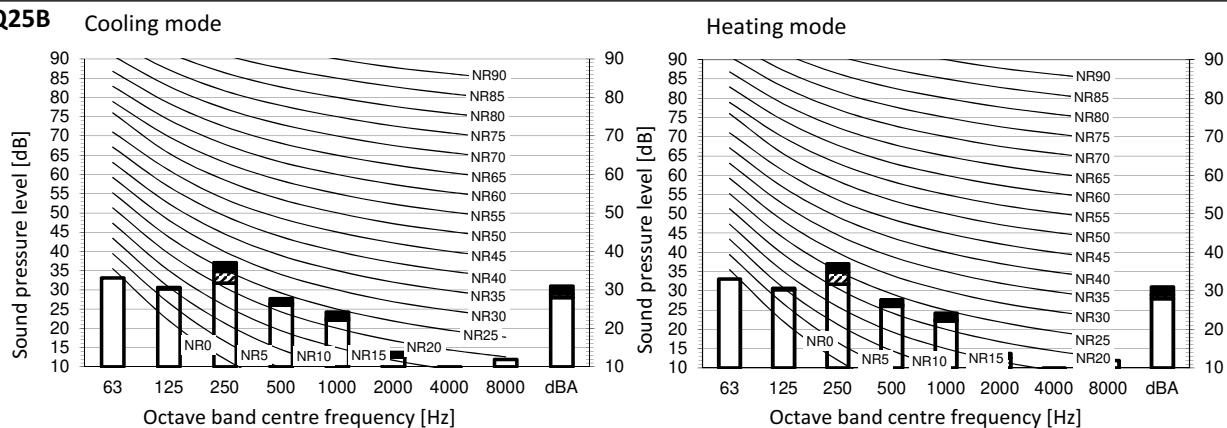


Notes

- 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

3D121671

FXFQ25B



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

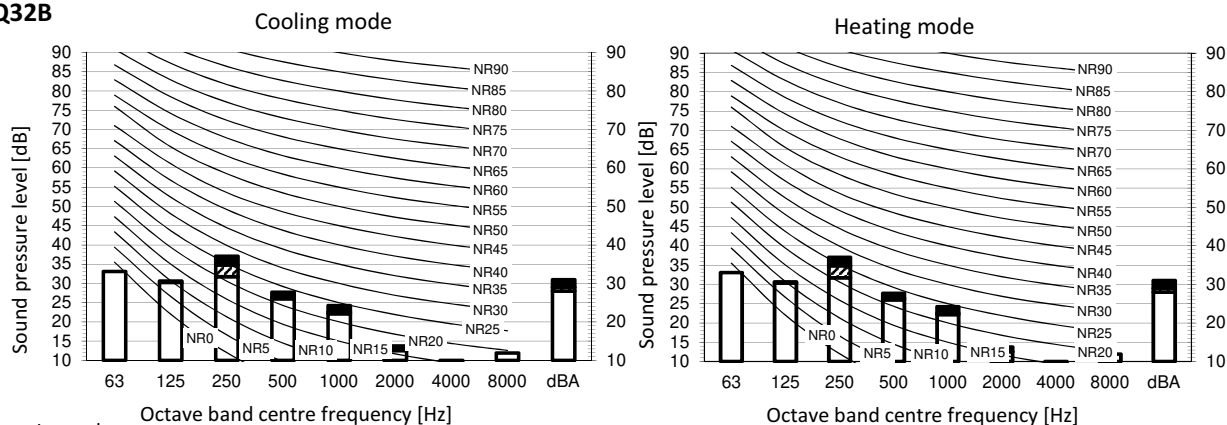
3D121672

11 Sound data

11 - 1 Sound Pressure Spectrum

11

FXFQ32B



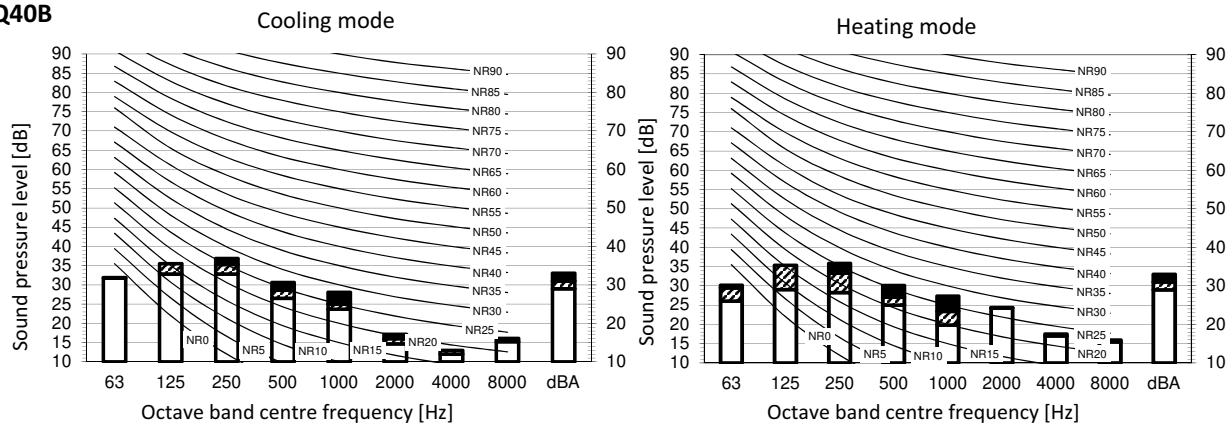
Cooling				Heating			
Total dB				Total dB			
A	B	C	D	A	B	C	D
dBA	31,0	29,0	28,0	dBA	31,0	29,0	28,0

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

3D121673

FXFQ40B



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

Notes

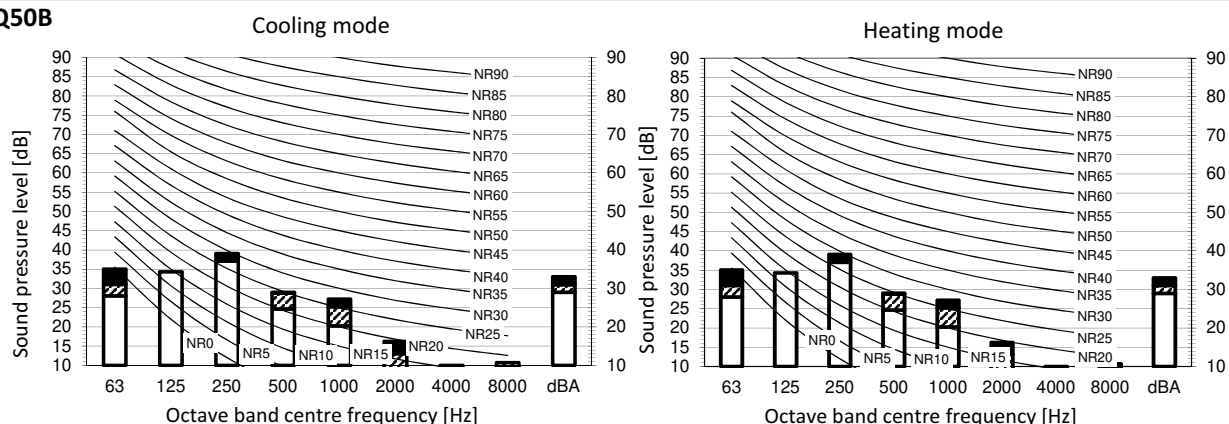
- Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard
- Background noise already taken into account.
- Operating noise varies depending on operation and ambient conditions.
- The operation noise measuring method is in accordance with JISC9612.
- Measuring location: anechoic chamber

3D121674

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

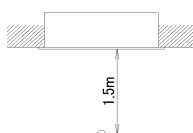
Cooling Total dB

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

Location of microphone

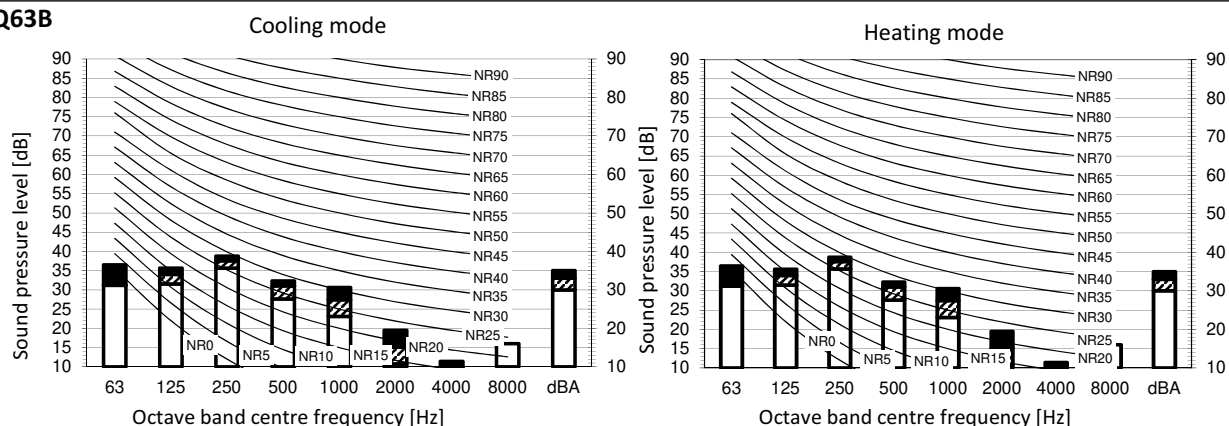


Notes

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

3D121675

FXFQ63B



Legend

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

A Scale Fan speed

B High
C Medium
D Low

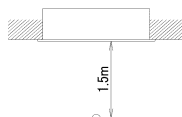
Cooling Total dB

A	B	C	D
dBA	35,0	33,0	30,0

Heating Total dB

A	B	C	D
dBA	35,0	33,0	30,0

Location of microphone



Notes

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

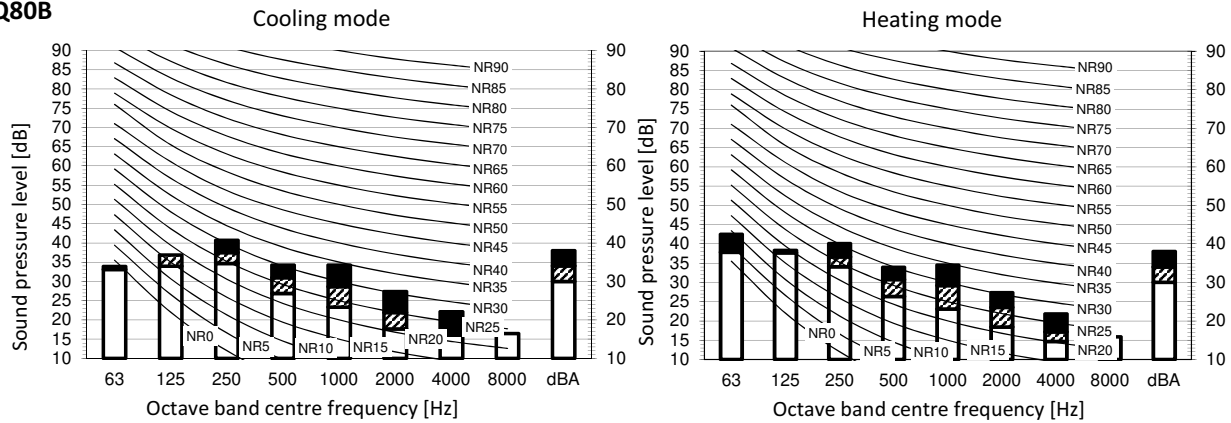
3D121676

11 Sound data

11 - 1 Sound Pressure Spectrum

11

FXFQ80B



Legend

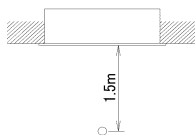
dBA = A-weighted sound pressure level (A scale according to IEC).

A	Scale	Fan speed
B	High	
C	Medium	
D	Low	

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

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

Location of microphone

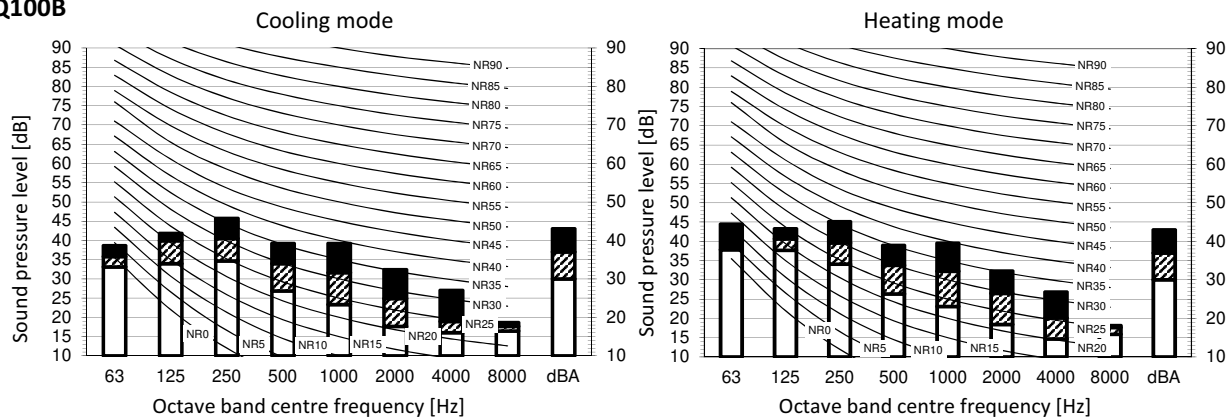


Notes

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

3D121677

FXFQ100B



Legend

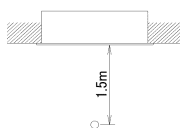
dBA = A-weighted sound pressure level (A scale according to IEC).

A	Scale	Fan speed
B	High	
C	Medium	
D	Low	

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

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

Location of microphone



Notes

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

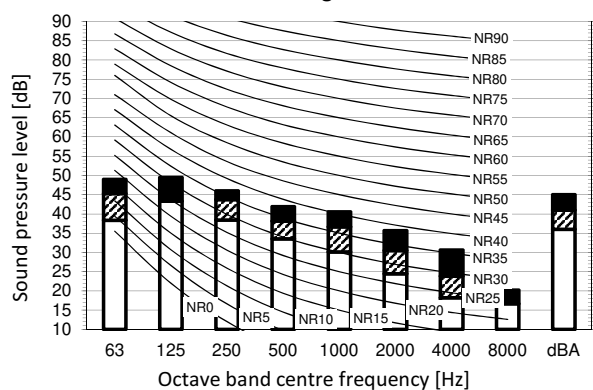
3D121678

11 Sound data

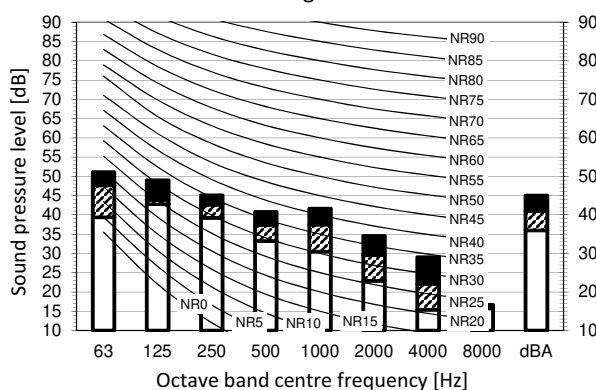
11 - 1 Sound Pressure Spectrum

FXFQ125B

Cooling mode



Heating mode



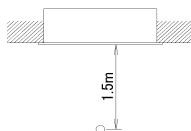
Legend

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

A	Scale	Fan speed
B	High	
C	Medium	
D	Low	

Cooling				Heating			
Total dB				Total dB			
A	B	C	D	A	B	C	D
dBA	45,0	41,0	36,0	dBA	45,0	41,0	36,0

Location of microphone



Notes

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

3D121679

12 Air flow patterns

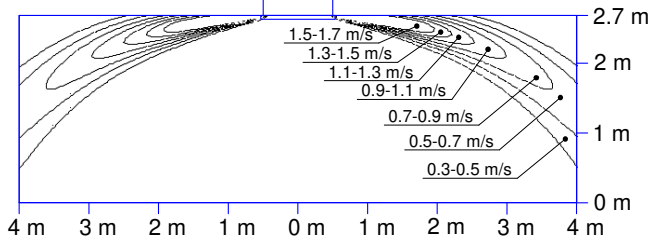
12 - 1 Air Flow Pattern - Cooling

12

FXFQ20-32B

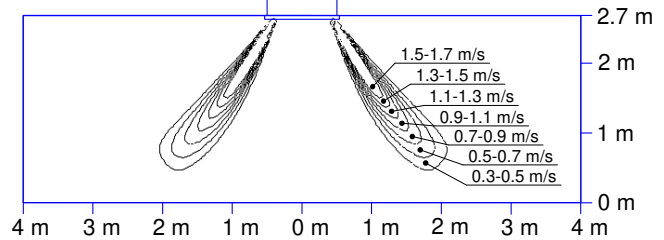
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



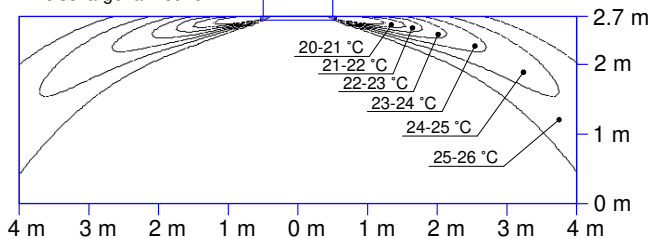
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



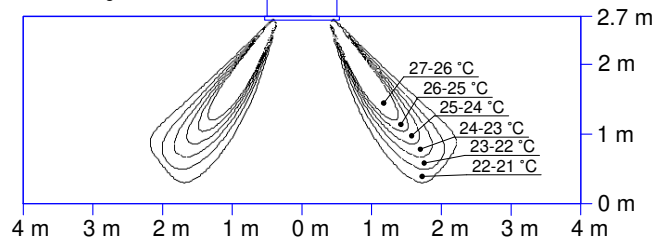
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round

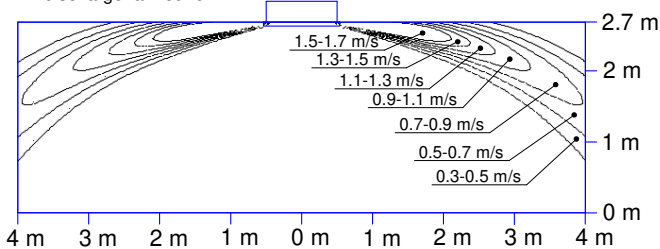


3D121627

FXFQ40B

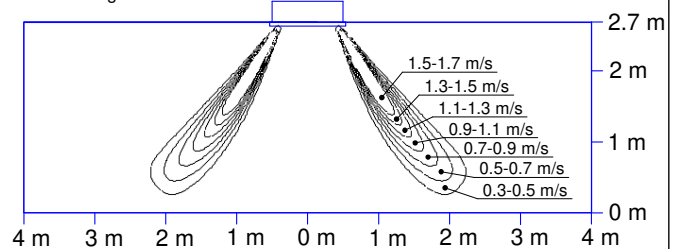
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



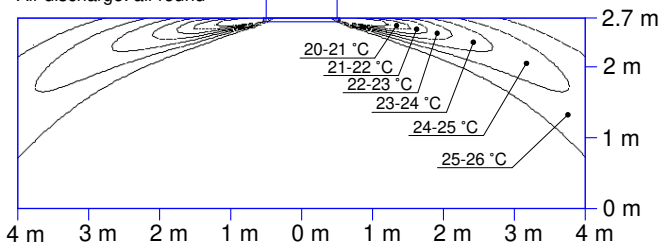
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



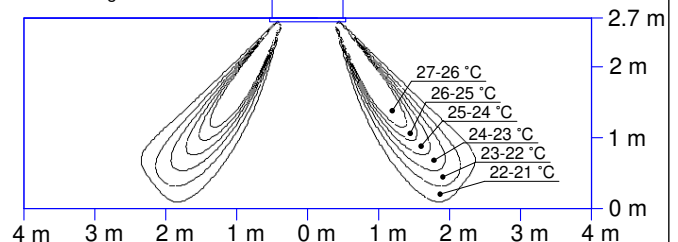
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



3D121620

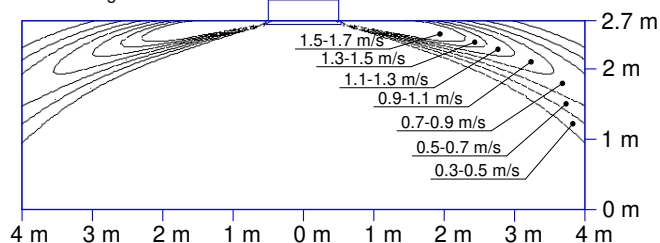
12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

FXFQ50B

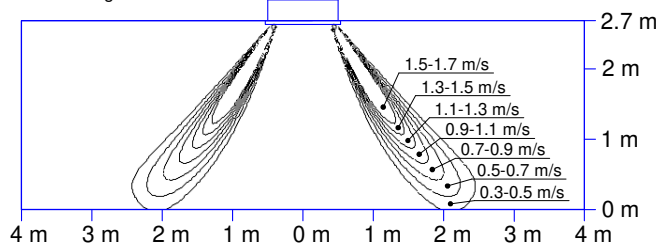
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



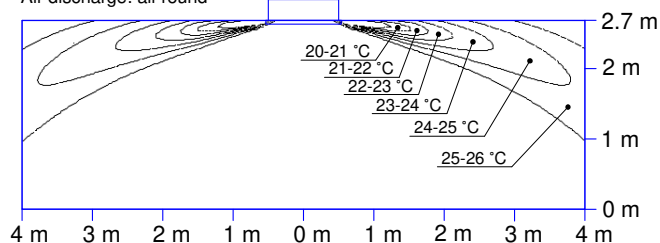
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



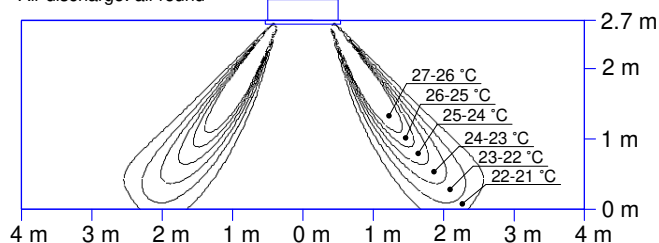
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round

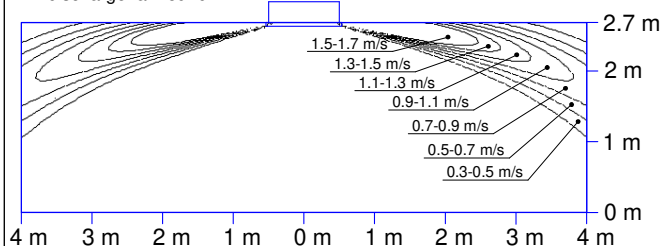


3D121621

FXFQ63B

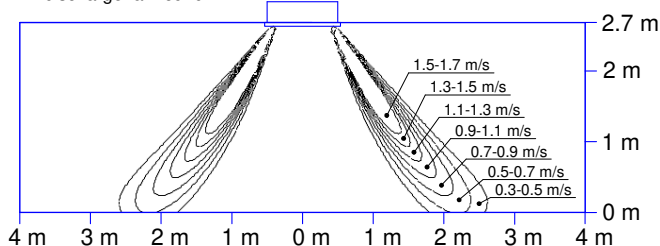
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



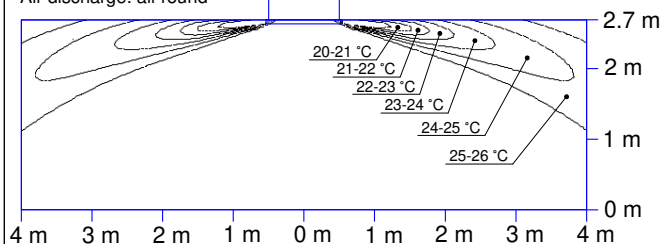
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



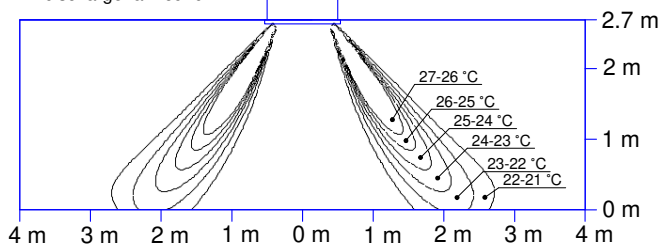
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



3D121628

12 Air flow patterns

12 - 1 Air Flow Pattern - Cooling

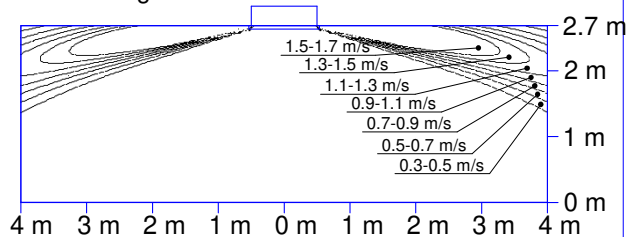
12

FXFQ80B

Air velocity distribution (cooling)

Air flow direction: horizontal

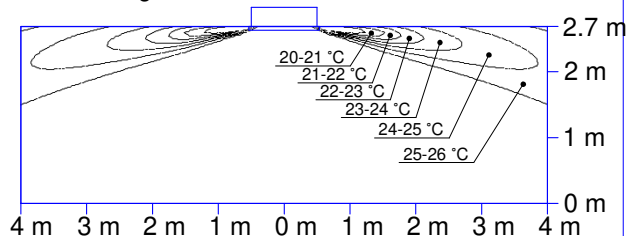
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

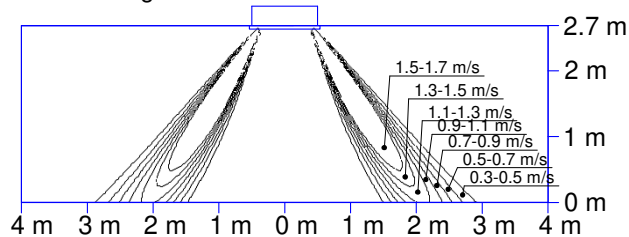
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

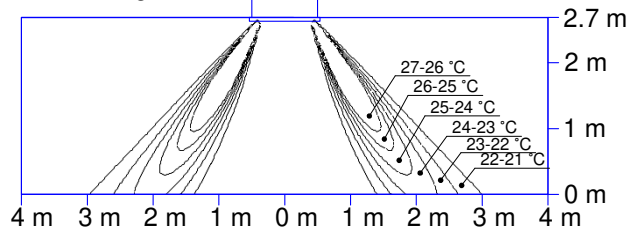
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



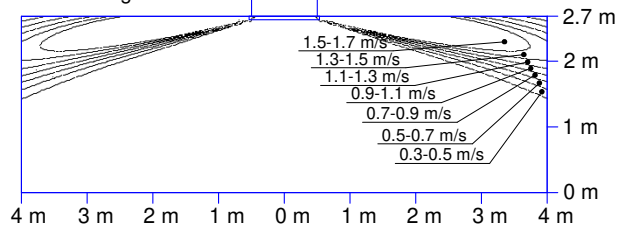
3D121622

FXFQ100B

Air velocity distribution (cooling)

Air flow direction: horizontal

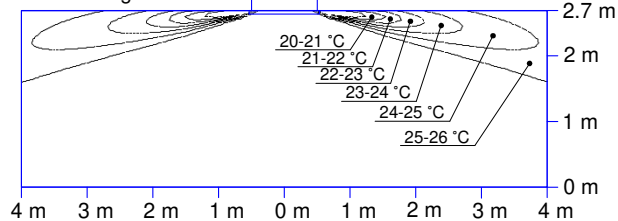
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

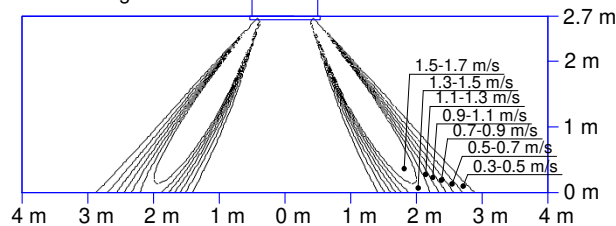
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

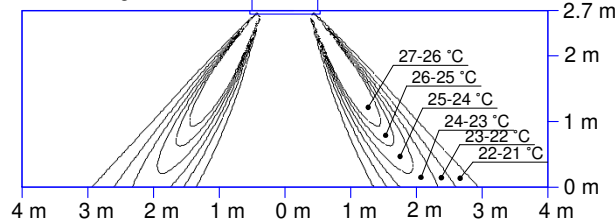
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



3D121629

12 Air flow patterns

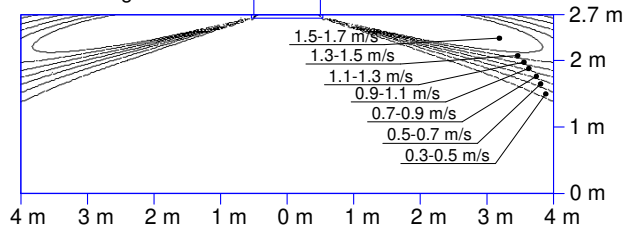
12 - 1 Air Flow Pattern - Cooling

FXFQ125B

Air velocity distribution (cooling)

Air flow direction: horizontal

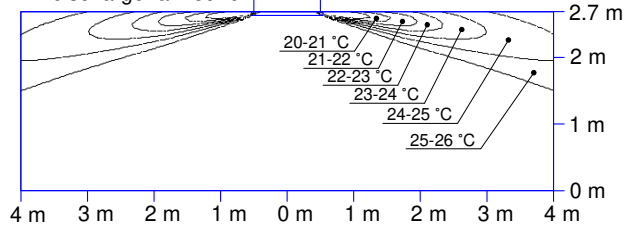
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

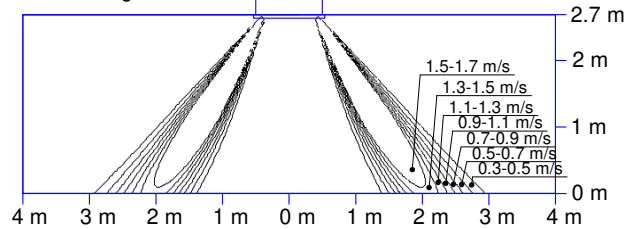
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

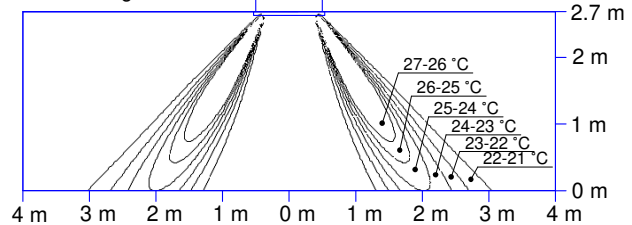
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



3D121630



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EEEN19 03/19



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