

Air Conditioning
Technical Data

FCAG-B



- > FCAG35BVEB
- > FCAG50BVEB
- > FCAG60BVEB
- > FCAG71BVEB
- > FCAG100BVEB
- > FCAG125BVEB
- > FCAG140BVEB

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1 Features

360° air discharge for optimum efficiency and comfort

- Unified indoor unit can be combined with R-32 and R-410A outdoor units, simplifying stock
- Combining with R-32 Bluevolution technology, reduces environmental impact with 68% compared to R-410A, leads directly to lower energy consumption thanks to its high energy efficiency and has up to lower 16% refrigerant charge
- 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
- 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
- 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
- 5 different fan speeds available for maximum comfort
- 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



Infrastructure cooling



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



Online controller via app



Auto-restart



Self diagnosis



Drain pump kit



Twin/triple/double twin application



Multi model application

2 Specifications

2-1 Technical Specifications				FCAG35B	FCAG50B	FCAG60B	FCAG71B	FCAG100B	FCAG125B	FCAG140B	
Casing	Material			Galvanised steel plate							
Dimensions	Unit	Height/Width/Depth	mm	204/840/840				246/840/840			
	Packed unit	Height/Width/Depth	mm	220/882/882				260/882/882			
Weight	Unit		kg	18	19		21	23			
	Packed unit		kg	20	21		23	26			
Decoration panel	Model			BYCQ140E2W1 / BYCQ140E2W1W / BYCQ140E2W1B							
	Dimensions	HeightxWidthxDepth	mm	65x950x950							
	Weight		kg	5.5							
Decoration panel 2	Model			BYCQ140E2GFW1 / BYCQ140E2GFW1B							
	Dimensions	HeightxWidthxDepth	mm	148x950x950							
	Weight		kg	10.3							
Decoration panel 3	Model			BYCQ140E2P / BYCQ140E2PB							
	Dimensions	HeightxWidthxDepth	mm	106x950x950							
	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			
	Face area		m²	0.278	0.366		0.371	0.464	0.464	0.464	
	Stages	Quantity		9	12			15			
	Empty tubeplate hole	Quantity		0							
	Tube type			Ø5 HI-XA							
	Fin	Type		Cross fin coil (multi slit fins and hi-XA tubes)							
Air filter	Type			Resin net							
Fan	Type			Turbo fan							
	Quantity			1							
	Air flow rate	Cooling	High	m³/min	12.9	14.6	14.9	15.1	22.7	27.2	
				cfm	446	516	526	533	802	961	
			Medium	m³/min	10.6	11.8	12.2	13.0	17.8	20.4	
				cfm	374	417	431	456	629	720	
		Low	m³/min	8.8	9.4	9.6	10.8	13.0	13.1		
			cfm	311	332	339	381	459	463		
			Heating	High	m³/min	14.1	14.6	14.9	15.1	23.0	27.0
					cfm	498	516	526	533	812	954
Medium	m³/min	11.6	11.8	12.2	12.9	18.1	20.2				
	cfm	410	417	431	456	639	713				
Low	m³/min	9.4		9.6		10.8	13.2	13.0			
		332		339		381	466	459			
Fan motor	Quantity			1							
	Model			DFB05A2VB				DFB11A2VB			
	Speed	Steps		5							
	Output	High	W	48				106			
Sound power level	Cooling		dBA	49.0		51.0		54.0	58.0		
	Heating		dBA	49.0		51.0		54.0	58.0		
Sound pressure level	Cooling	High/Medium/Low	dBA	31.0/29.0/27.0		33.0/31.0/28.0	35.0/31.0/28.0	37.0/33.0/29.0	41.0/35.0/29.0		
	Heating	High/Medium/Low	dBA	31.0/29.0/27.0		33.0/31.0/28.0		37.0/33.0/29.0	41.0/35.0/29.0		
Control systems	Infrared remote control			BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB							
	Wired remote control			BRC1D528 / BRC1E53A7 / BRC1E53B7 / BRC1E53C7 / BRC1H81W/S / BRC1H51(9W/S/K7 / BRC2E52C7 / BRC3E52C7							
Refrigerant	Type			R-32 / R-410A							

2 Specifications

2-1 Technical Specifications				FCAG35B	FCAG50B	FCAG60B	FCAG71B	FCAG100B	FCAG125B	FCAG140B
Piping connections	Sound absorbing insulation			Foamed polyurethane						
	Liquid	Type/OD	mm	Flare connection/6,35			Flare connection/9,52			
	Gas	Type/OD	mm	Flare connection/ 9.52	Flare connection/12.70			Flare connection/15.90		
	Drain			VP25 (O.D. 32 / I.D. 25)						
	Heat insulation			Foamed polystyrene / Foamed polyethylene						
Safety devices	Item	01/02		PC board fuse/Fan motor overcurrent protector				-/Fan motor overcurrent protector		

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				FCAG35B	FCAG50B	FCAG60B	FCAG71B	FCAG100B	FCAG125B	FCAG140B
Power supply	Phase			1~						
	Frequency		Hz	50/60						
	Voltage		V	220-240/220						

Notes

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

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.

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

3 Safety device settings

3 - 1 Safety Device Settings

FCAG-B

Safety devices		FCAG35-71BVEB	FCAG100-140BVEB
PCB fuse		250V, 3.15A	---
Fan motor overcurrent protection	Nominal	0,92A	1,49A
Fan motor thermal protector	Maximum	---	---
Drain pump fuse		---	---

Safety devices		FCAHG71-140HVEB
PCB fuse		---
Fan motor overcurrent protection	Nominal	1,49A
Fan motor thermal protector	Maximum	---
Drain pump fuse		---

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4 Options

4 - 1 Options

FCAG-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		EW HAR1 ⑰	✓	✓
Wireless remote control		BRC7FA532F ⑥⑩⑰	✓	✓
Wireless remote control		Black BRC7FA532FB ⑥⑩⑰	✓	✓
Wireless remote control (for designer decoration panel)		BRC7FB532F ⑥⑭⑰	✓	✓
Wireless remote control (for designer decoration panel)		Black BRC7FB532FB ⑥⑭⑰	✓	✓
Wired remote control		BRC1D528 ⑭⑰	✓	✓
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 ⑳	✓	✓
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 -EW HAR1- 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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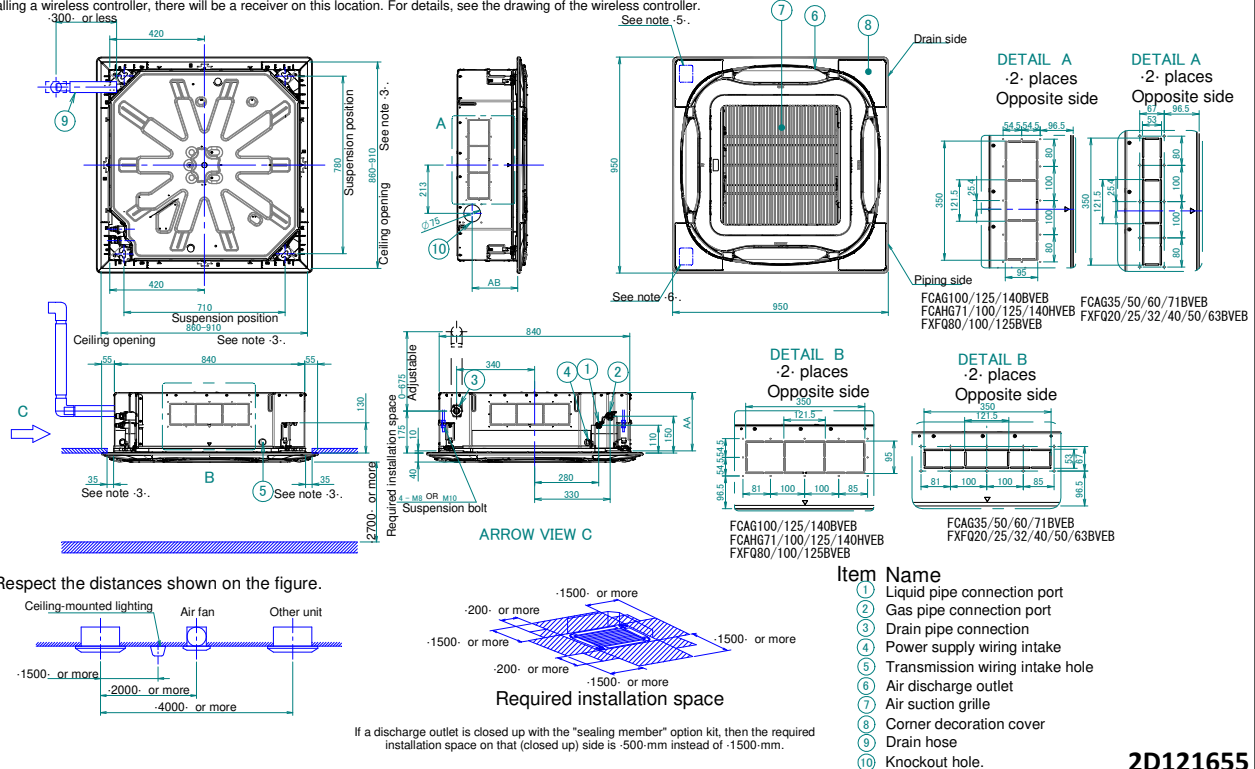
5 Dimensional drawings

5 - 1 Dimensional Drawings

FCAG-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.

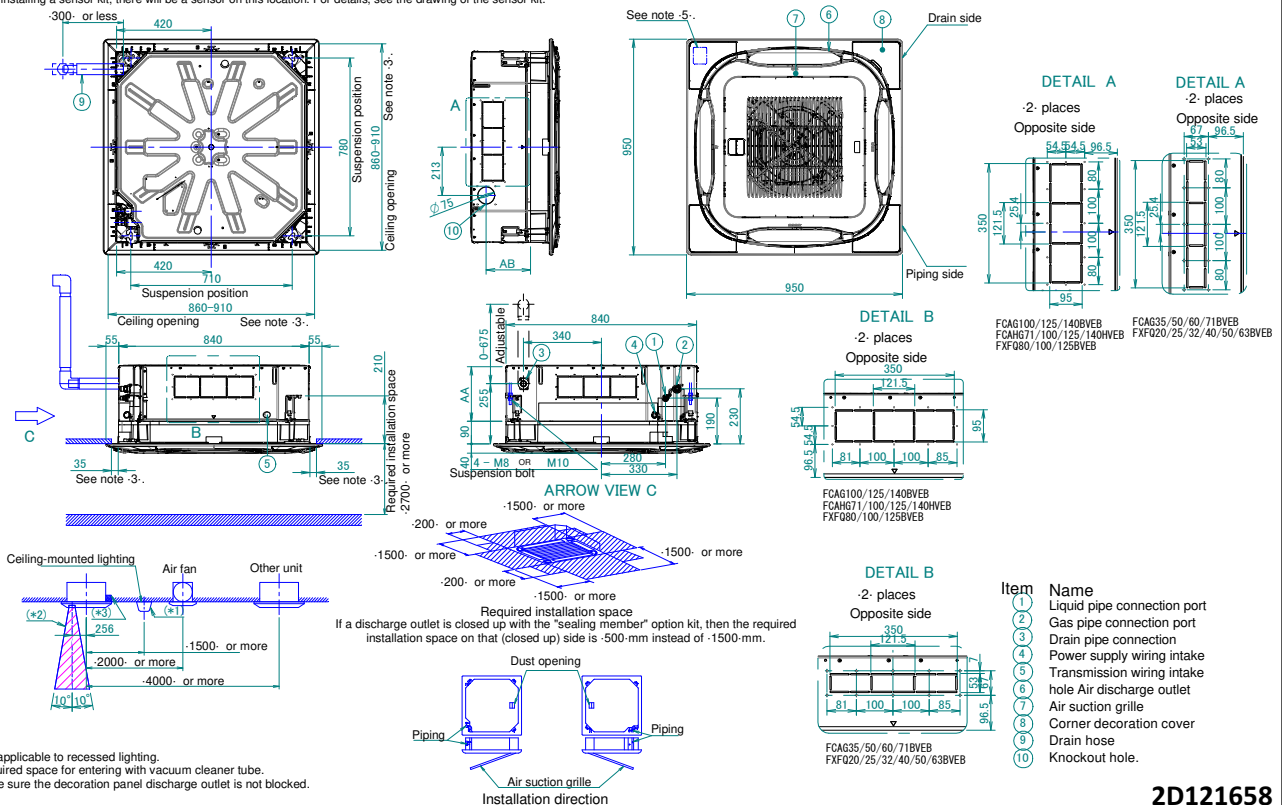


2D121655

FCAG-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.



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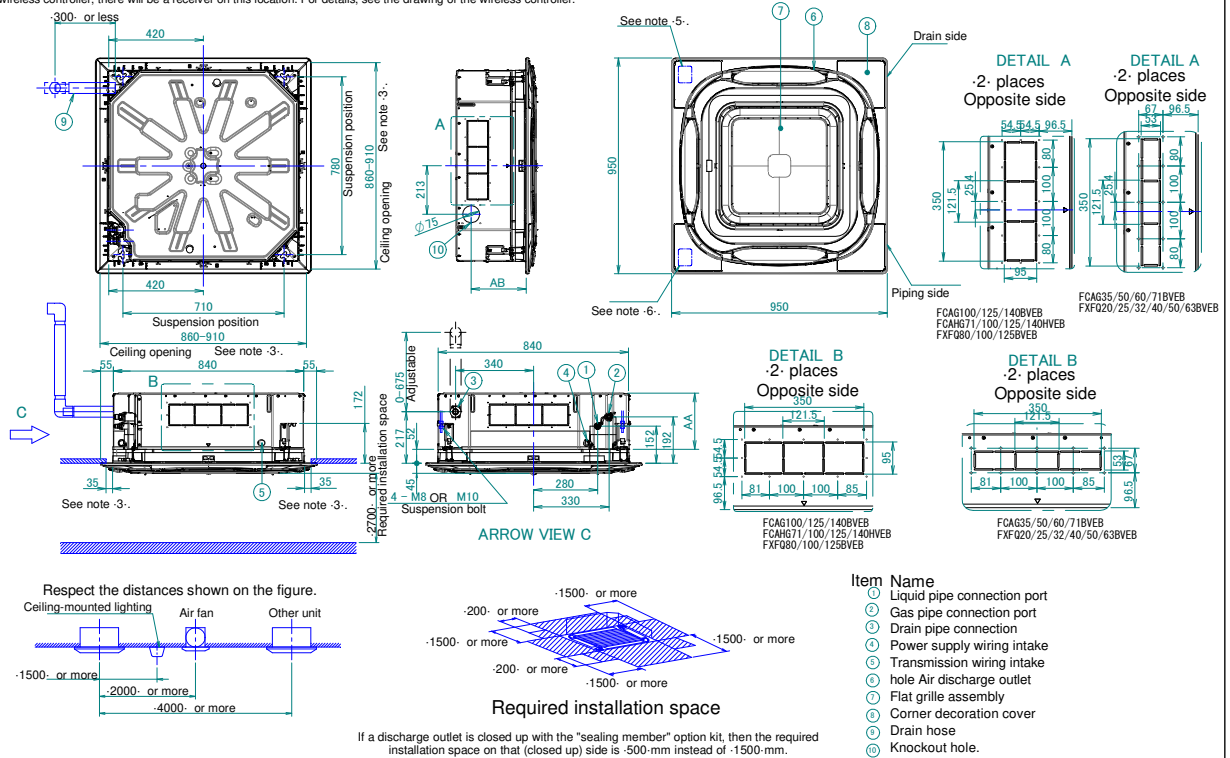
5 Dimensional drawings

5 - 1 Dimensional Drawings

FCAG-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.



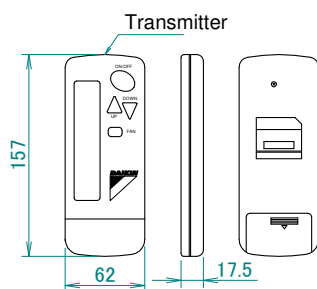
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5 Dimensional drawings

5 - 2 Dimensional Drawings with Accessories

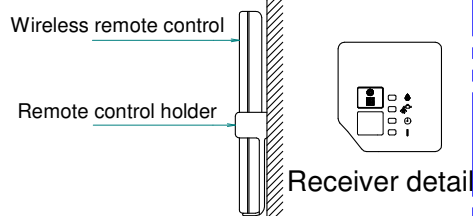
FCAG-B

Remote control dimensions

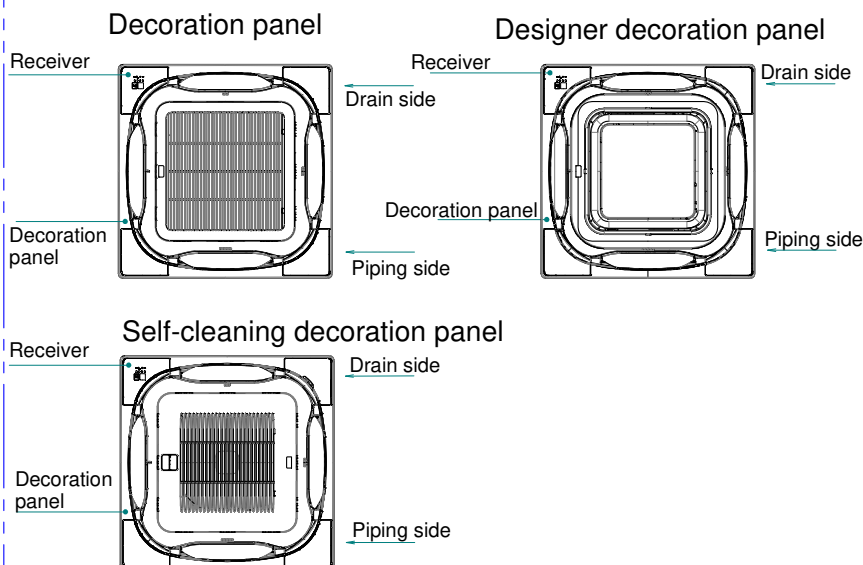


Remote control holder

Installation methods
Installation to wall surface



Installation methods

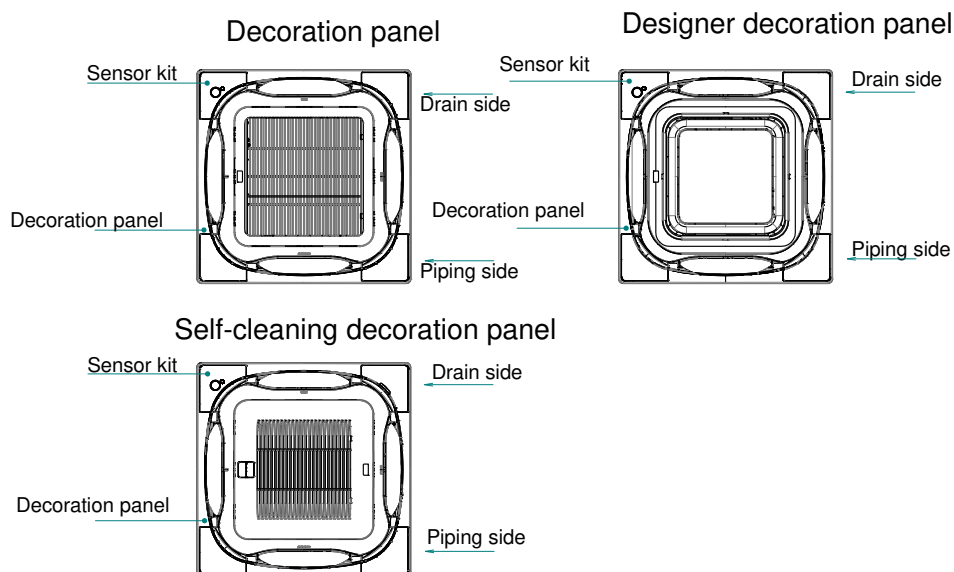


Front panel	Model name	Option
Decoration panel	BYCQ140E2W1(W)	BRC7FA532F
	BYCQ140E2W1B	BRC7FA532FB
Self-cleaning decoration panel	BYCQ140E2GFW1	BRC7FA532F
	BYCQ140E2GFW1B	BRC7FA532FB
Designer decoration panel	BYCQ140E2P	BRC7FB532F
	BYCQ140E2PB	BRC7FB532FB

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FCAG-B

Installation methods



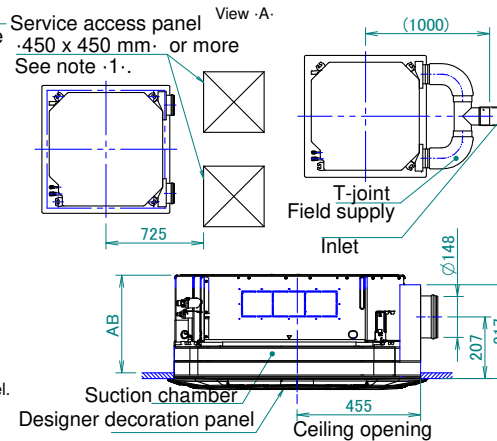
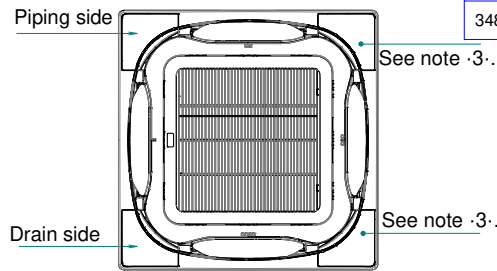
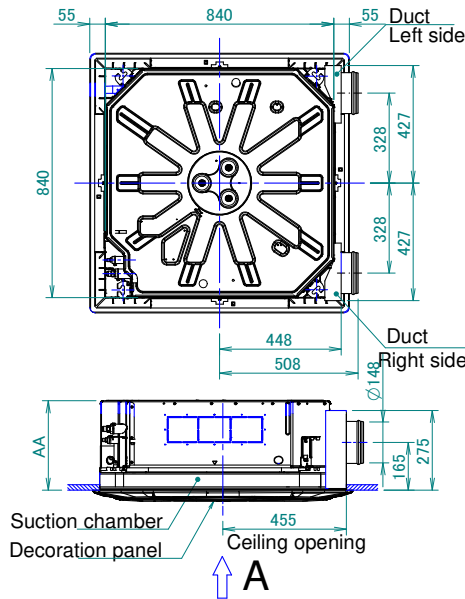
Front panel	Model name	Option
Decoration panel	BYCQ140E2W1(W)	BRYQ140B8
	BYCQ140E2W1B	BRYQ140B8B
Self-cleaning decoration panel	BYCQ140E2GFW1	BRYQ140B8
	BYCQ140E2GFW1B	BRYQ140B8B
Designer decoration panel	BYCQ140E2P	BRYQ140C8
	BYCQ140E2PB	BRYQ140C8B

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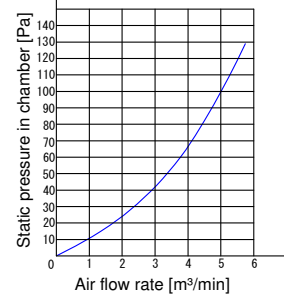
5 Dimensional drawings

5 - 3 Dimensional Drawings with Fresh Air Intake

FCAG-B



AA	AB	Model name
264	306	FCAG35/50/60/71BVEB
		FXFQ20/25/32/40/50/63BVEB
306	348	FCAG100/125/140BVEB
		FXFQ80/100BVEB
348	390	FCAHG71/100/125/140HVEB
		FXFQ125BVEB



Notes

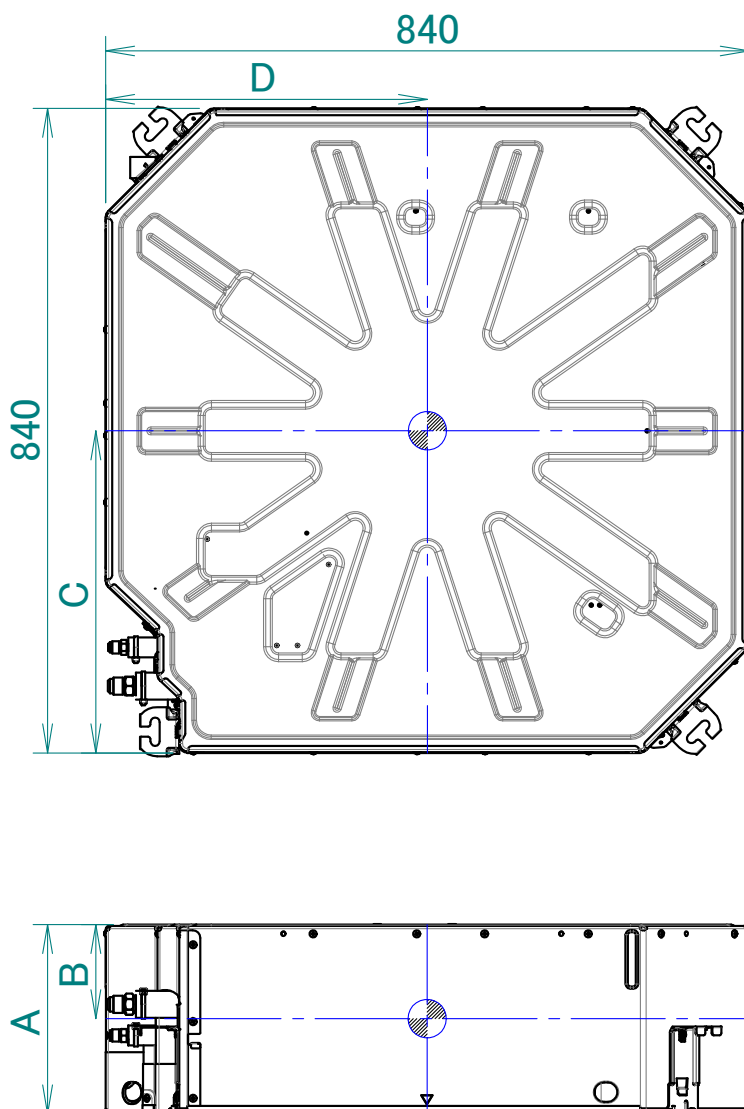
1. When installing a fresh air intake kit, provide a service access panel.
2. Field construction
3. This corner discharge outlet needs to be closed.
4. When installing a duct fan, use a wiring adapter to link the duct fan to the fan of the indoor unit.
5. The intake air flow rate is recommended to be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

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6 Centre of gravity

6 - 1 Centre of Gravity

FCAG-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

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7 Piping diagrams

7 - 1 Piping Diagrams

7

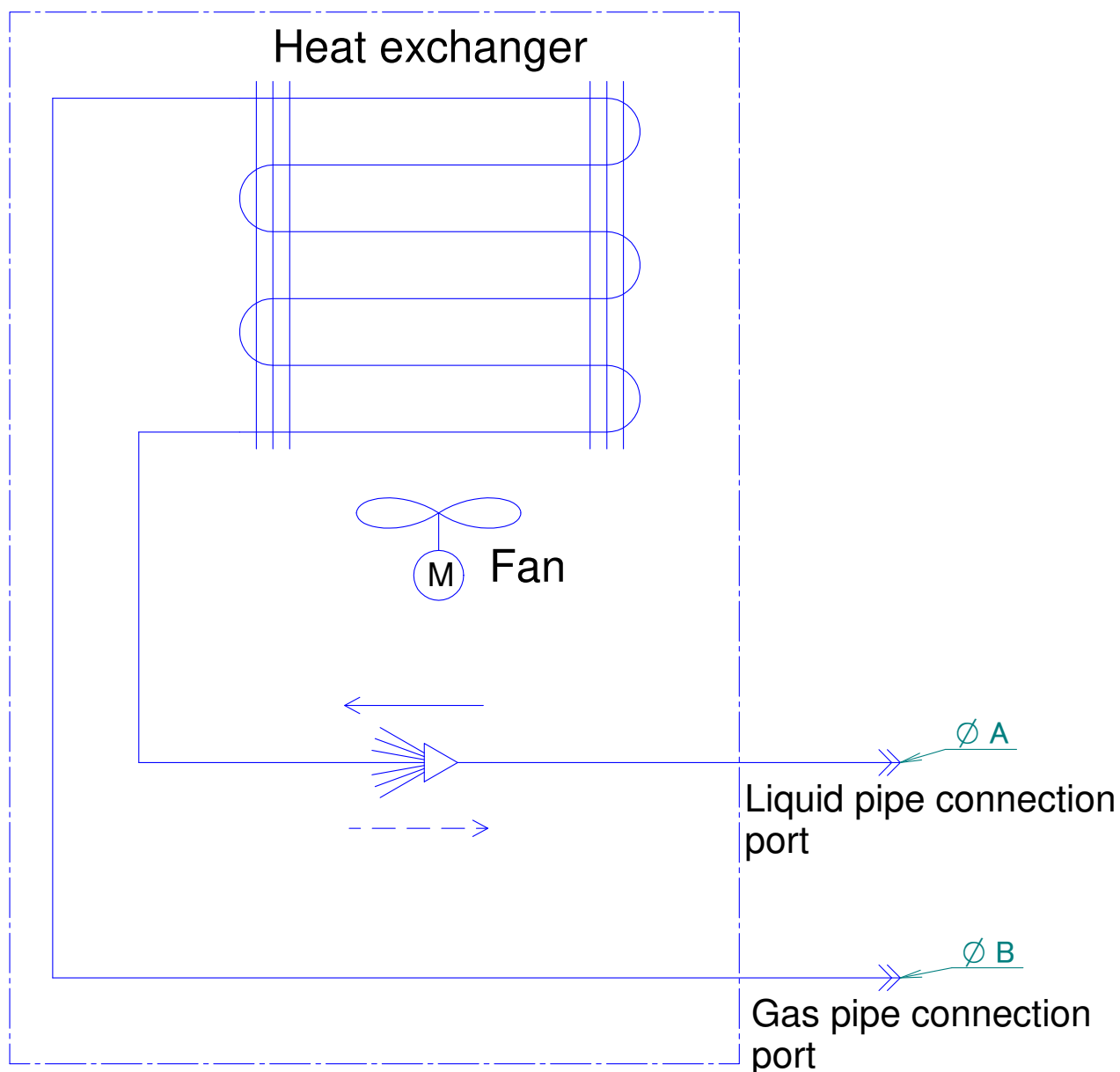
FCAG-B

Model	A	B
FCAG35BVEB	6.35	9.52
FCAG50BVEB		12.7
FCAG60BVEB		
FCAG71BVEB	9.52	15.9
FCAG100BVEB		
FCAG125BVEB		
FCAG140BVEB		
FCAHG71BVEB		
FCAHG100BVEB		
FCAHG125BVEB		
FCAHG140BVEB		

Refrigerant flow

Cooling —————>

Heating - - - - ->



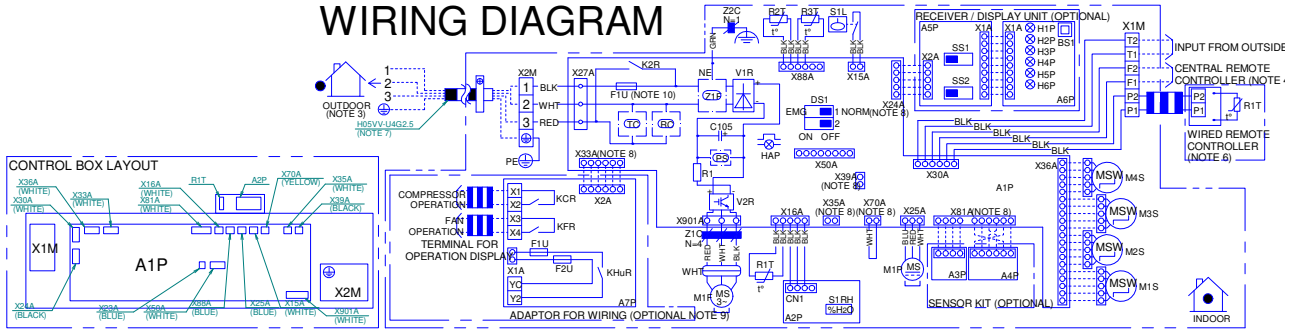
4D121433

8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

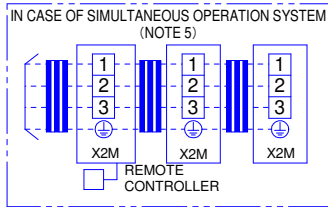
FCAG-B

WIRING DIAGRAM



NOTES:

1. [Symbol]: TERMINAL BLOCK, [Symbol]: CONNECTOR, [Symbol]: FIELD WIRING
2. IN CASE OF SIMULTANEOUS OPERATION INDOOR UNIT SYSTEM, SEE THE INDOOR UNIT WIRING ONLY.
3. FOR DETAILS, SEE WIRING DIAGRAM ATTACHED TO THE OUTDOOR UNIT.
4. IN CASE OF USING CENTRAL REMOTE CONTROLLER, CONNECT IT TO THE UNIT IN ACCORDANCE WITH THE ATTACHED INSTALLATION MANUAL.
5. IN CASE OF SIMULTANEOUS OPERATION SYSTEM, CONNECTED QUANTITY OF THE INDOOR UNITS VARIES ACCORDING TO THE CONNECTED OUTDOOR UNIT.
6. IN CASE OF MAIN/SUB CHANGEOVER, SEE INSTALLATION MANUAL ATTACHED TO THE REMOTE CONTROLLER.
7. SHOWN ONLY IN CASE OF PROTECTION PIPING, USE H07RN-F IN CASE OF NO PROTECTION.
8. X24A, X33A, X35A, X39A, X70A, X81A ARE CONNECTED WHEN OPTIONAL ACCESSORIES ARE BEING USED, SEE WIRING DIAGRAM OF THIS ACCESSORY.
9. CONNECT POWER OF ADAPTER FOR WIRING TO TERMINAL BLOCK (X2M) OF INDOOR UNIT DIRECTLY.
10. FUSE F1U ON MAIN PCB (A1P) IS PRESENT ONLY IN FOLLOWING UNITS: FCAG 35, 50, 60, 71.



WIRE COLORS

BLK: BLACK RED: RED
BLU: BLUE WHT: WHITE
YLW: YELLOW GRN: GREEN
BRN: BROWN PNK: PINK

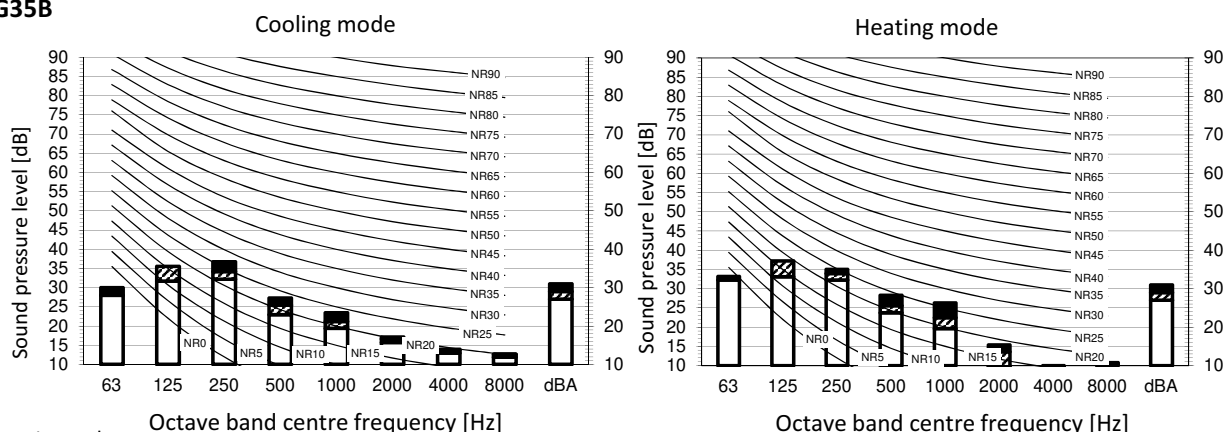
INDOOR UNIT		H2P	PILOT LAMP (TIMER: GREEN)
A1P	MAIN PCB	H3P	PILOT LAMP
C105	CAPACITOR	H3P	(FILTER SIGN: RED)
DS1	DIP SWITCH ON PCB	H4P	PILOT LAMP
F1U	FUSE (T, 3.15A 250V)	H4P	(DEFROST: ORANGE)
HAP	FLASHING LAMP (SERVICE MONITOR: GREEN)	H5P	PILOT LAMP (ELEMENT CLEANING: RED)
K2R	MAGNETIC RELAY	H6P	PILOT LAMP (TIMER: GREEN)
M1P	MOTOR (DRAIN PUMP)	SS1	DIP SWITCH (MAIN / SUB)
M1F	MOTOR (INDOOR FAN)	SS2	DIP SWITCH
M1S-M4S	MOTOR (SWING BLADE)		(WIRELESS ADDRESS SET)
R1	RESISTOR	ADAPTOR FOR WIRING	
R1T	THERMISTOR (AIR)	A7P	ADAPTER PCB
R2T, R3T	THERMISTOR (COIL)	F1U	FUSE (SA, 250V)
S1L	FLOAT SWITCH (DRAIN PUMP)	F2U	FUSE (SA, 250V)
V1R	DIODE BRIDGE	KHUR	MAGNETIC RELAY
V2R	IGBT POWER MODULE	KCR	MAGNETIC RELAY
X15-901A	CONNECTOR	KFR	MAGNETIC RELAY
X1M	TERMINAL BLOCK (REMOTE CONTROLLER)	X1-2A	CONNECTOR
X2M	TERMINAL BLOCK (POWER SUPPLY)	CONNECTORS FOR OPTIONAL PARTS	
Z1C, Z2C	FERRITE CORE	X24A	CONNECTOR (WIRELESS REMOTE CONTROLLER)
Z1F	NOISE FILTER	X33A	CONNECTOR (ADAPTOR FOR WIRING)
PS	POWER SUPPLY CIRCUIT	X35A	CONNECTOR
RC	SIGNAL RECEIVER CIRCUIT	X39A	CONNECTOR (AUTO CLEAN PANEL)
TC	SIGNAL TRANSMISSION CIRCUIT	X70A	CONNECTOR
NE	NOISELESS EARTH	X50A	CONNECTOR (WIFI ADAPTOR)
SENSOR KIT		X81A	CONNECTOR (SENSOR KIT)
A3P, A4P	SENSOR KIT PCB	WIRED REMOTE CONTROLLER	
WIRELESS REMOTE CONTROLLER (RECEIVER / DISPLAY UNIT)		R1T	THERMISTOR (AIR)
A5P	RECEIVER PCB	HUMIDITY SENSOR	
A6P	DISPLAY PCB	A2P	SENSOR PCB
BS1	PUSH BUTTON (ON/OFF)	S1RH	HUMIDITY SENSOR
X1-2A	CONNECTOR	CN1	CONNECTOR
H1P	PILOT LAMP (ON: RED)		

3D116812C

9 Sound data

9 - 1 Sound Pressure Spectrum

FCAG35B



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

A Scale Fan speed

B High

C Medium

D Low

Cooling		Total dB	
A	B	C	D
dBA	31,0	29,0	27,0

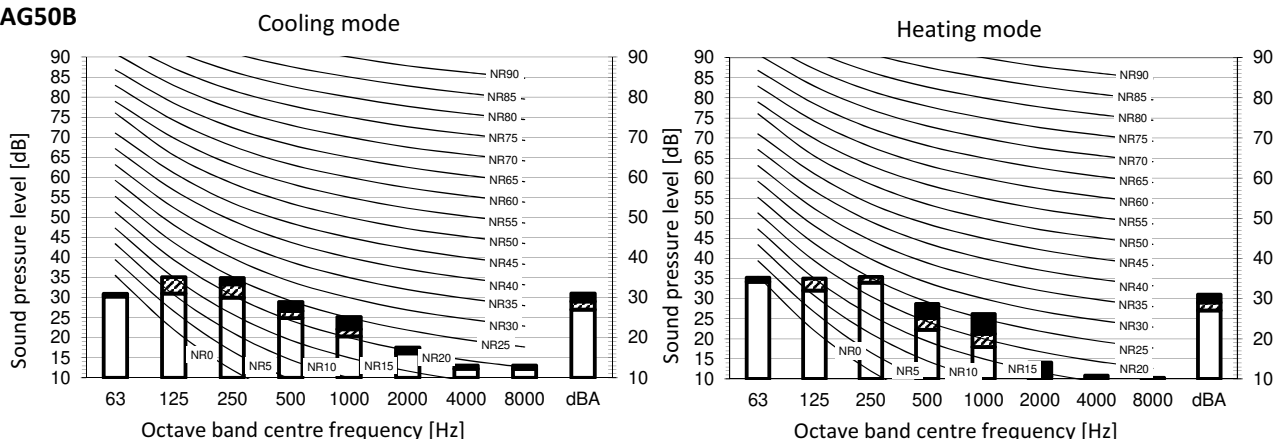
Heating		Total dB	
A	B	C	D
dBA	31,0	29,0	27,0

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

3D121660

FCAG50B



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

A Scale Fan speed

B High

C Medium

D Low

Cooling		Total dB	
A	B	C	D
dBA	31,0	29,0	27,0

Heating		Total dB	
A	B	C	D
dBA	31,0	29,0	27,0

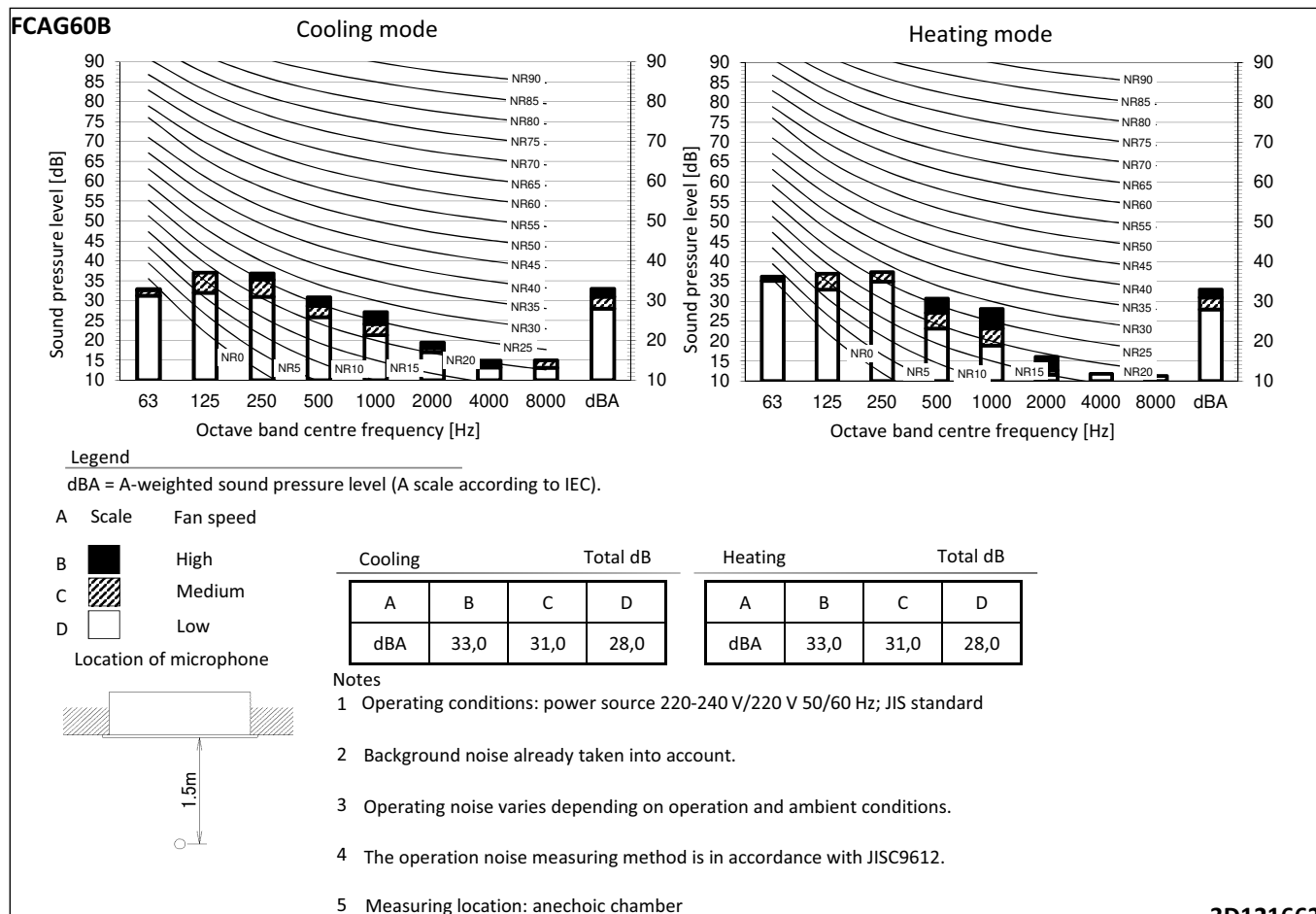
Notes

- 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

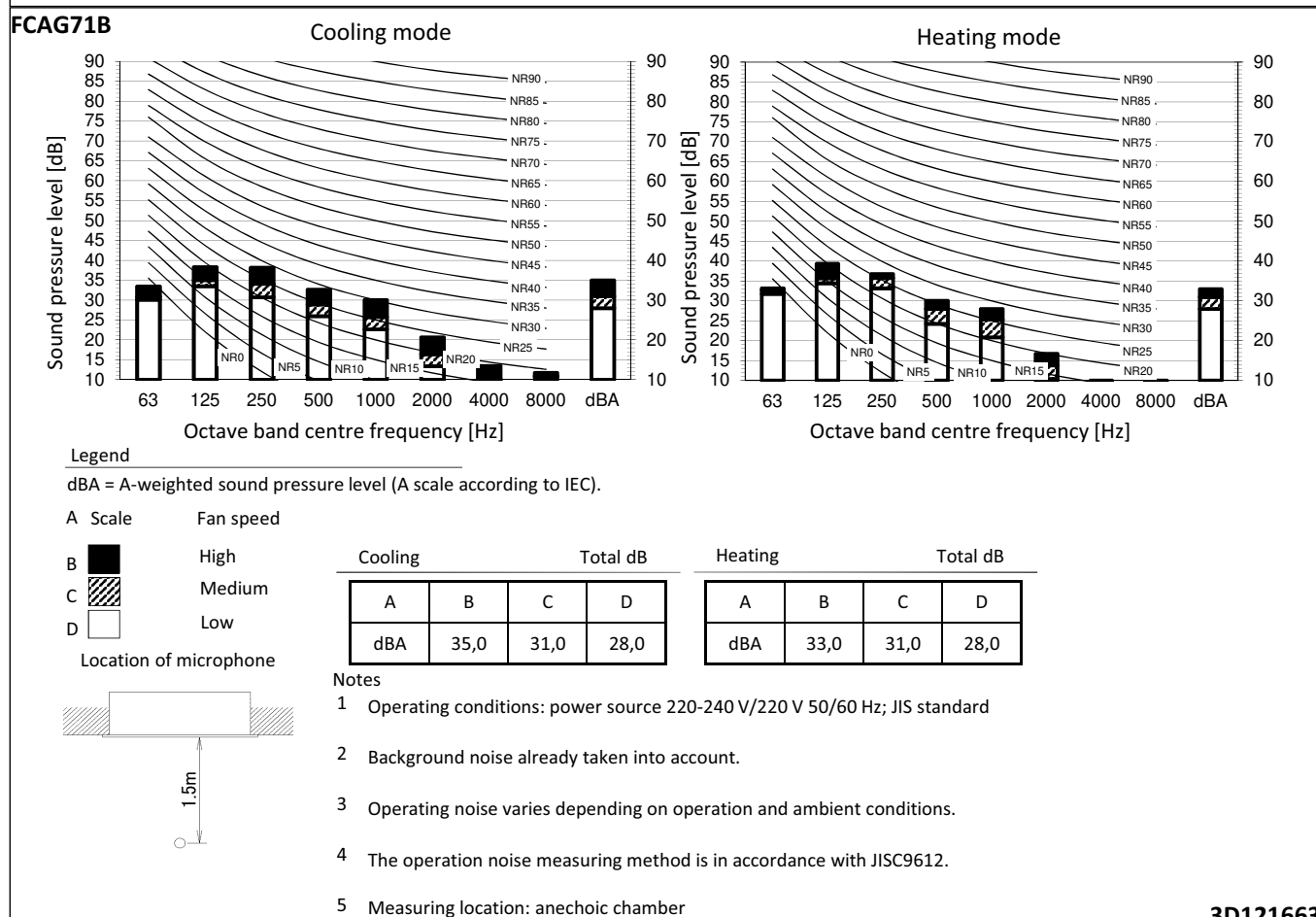
3D121661

9 Sound data

9 - 1 Sound Pressure Spectrum



3D121662



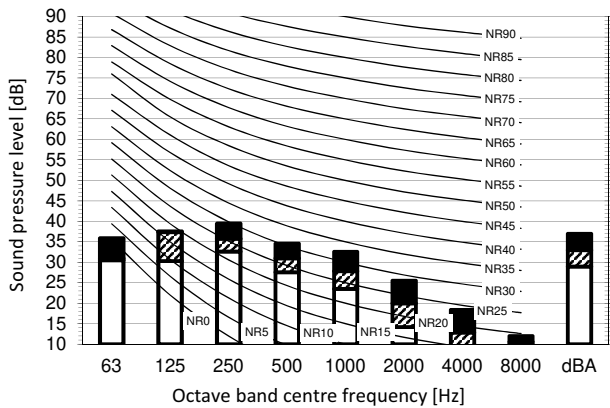
3D121663

9 Sound data

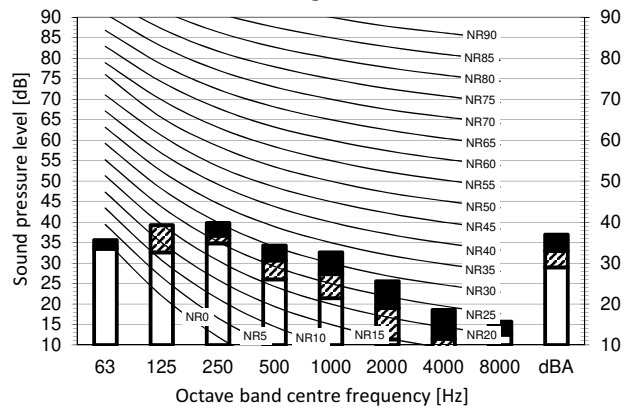
9 - 1 Sound Pressure Spectrum

FCAG100B

Cooling mode



Heating mode



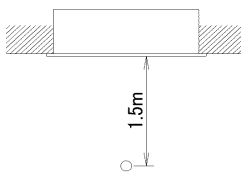
Legend

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

A Scale Fan speed

B High
C Medium
D Low

Location of microphone



Cooling Total dB

A	B	C	D
dBA	37,0	33,0	29,0

Heating Total dB

A	B	C	D
dBA	37,0	33,0	29,0

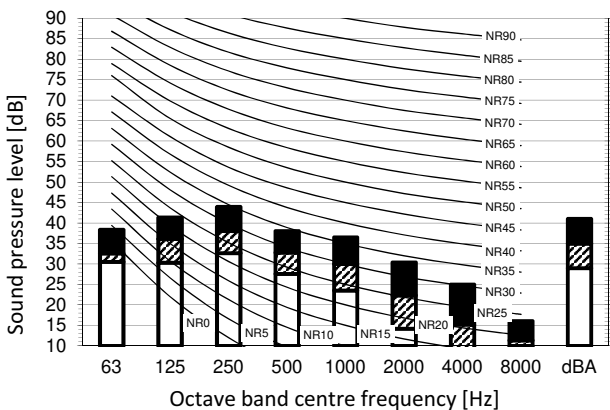
Notes

- 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

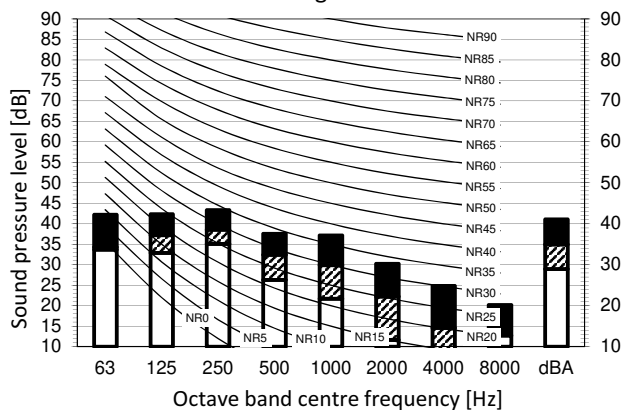
3D121664

FCAG125B

Cooling mode



Heating mode



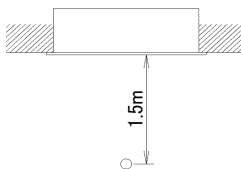
Legend

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

A Scale Fan speed

B High
C Medium
D Low

Location of microphone



Cooling Total dB

A	B	C	D
dBA	41,0	35,0	29,0

Heating Total dB

A	B	C	D
dBA	41,0	35,0	29,0

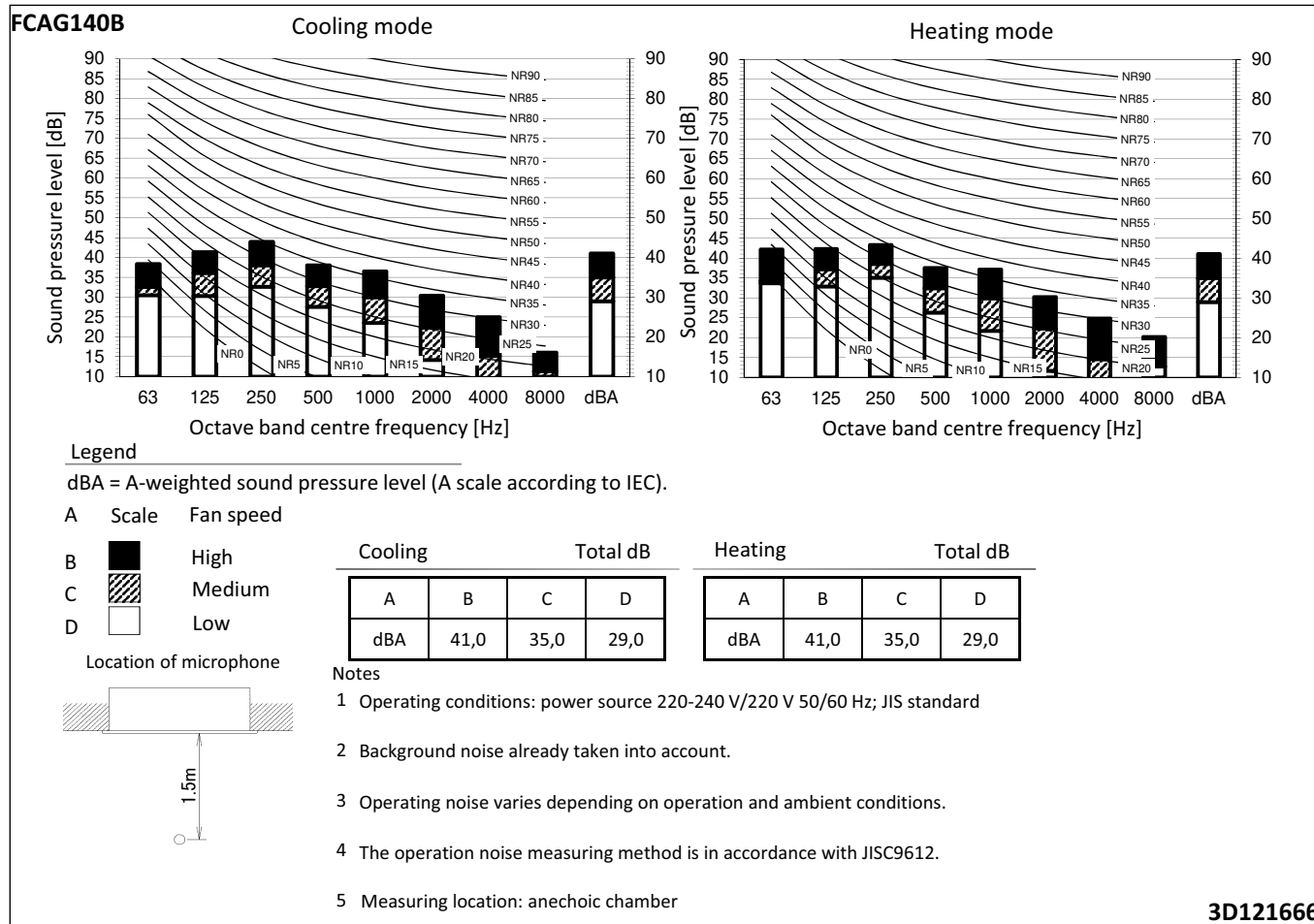
Notes

- 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

3D121665

9 Sound data

9 - 1 Sound Pressure Spectrum



3D121666

10 Air flow patterns

10 - 1 Air Flow Pattern - Cooling / Heating

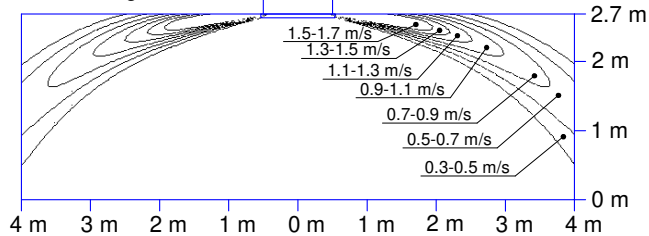
10

FCAG35B

Air velocity distribution (cooling)

Air flow direction: horizontal

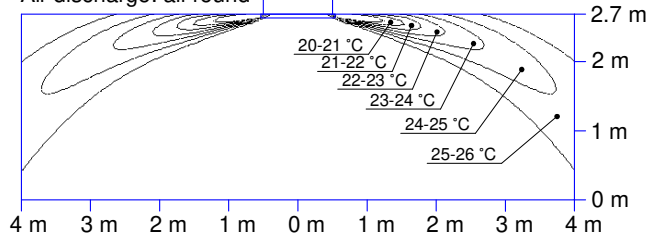
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

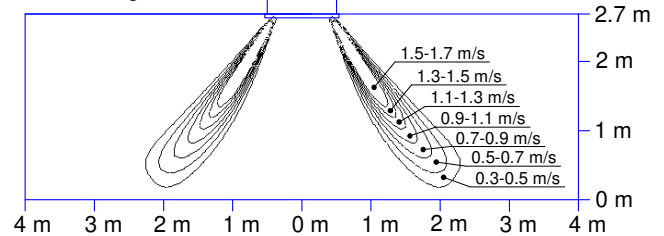
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

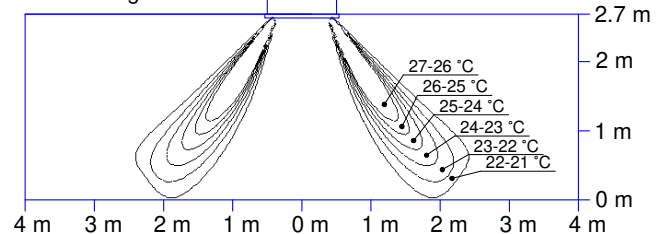
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



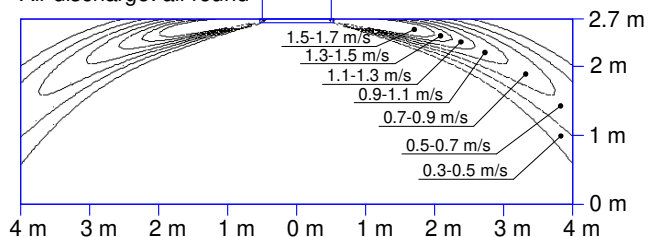
3D121618

FCAG50B

Air velocity distribution (cooling)

Air flow direction: horizontal

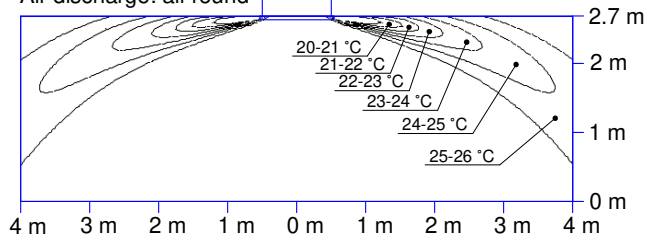
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

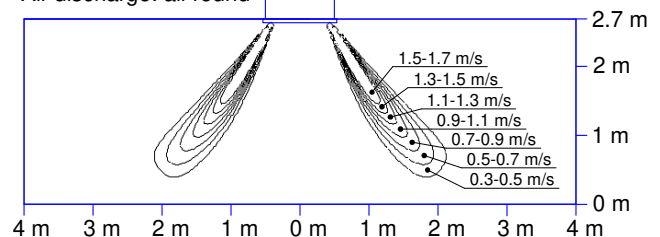
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

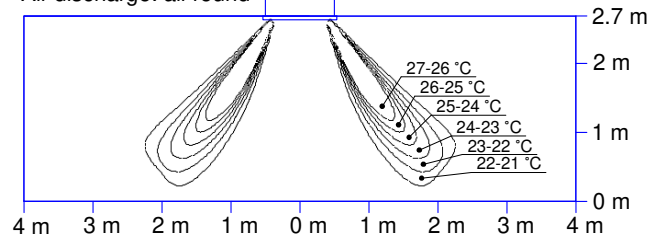
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



3D121619

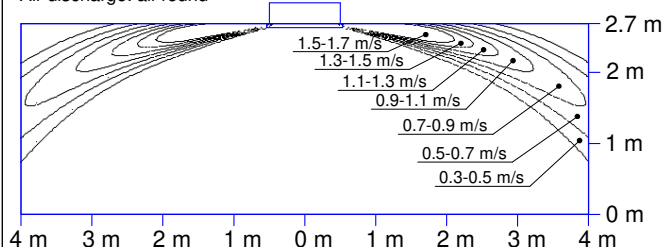
10 Air flow patterns

10 - 1 Air Flow Pattern - Cooling / Heating

FCAG60B

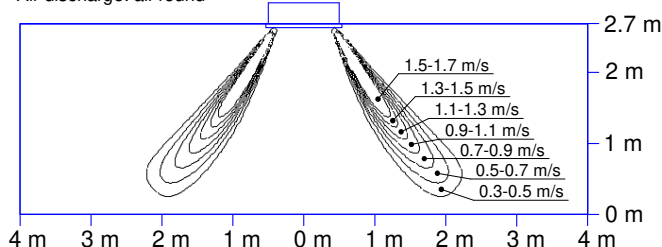
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



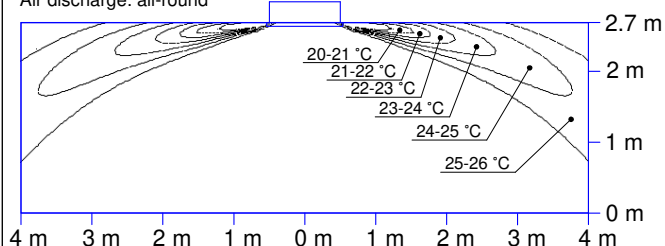
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



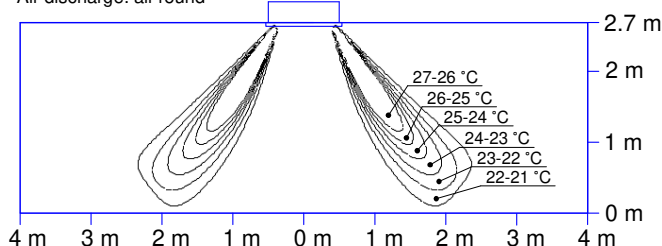
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round

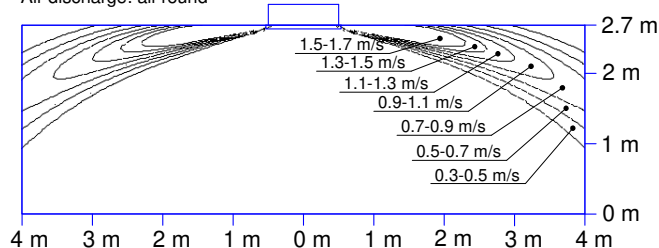


3D121620

FCAG71B

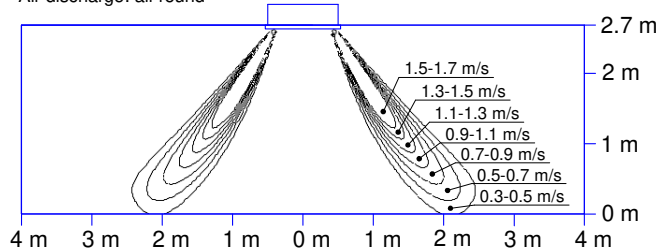
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



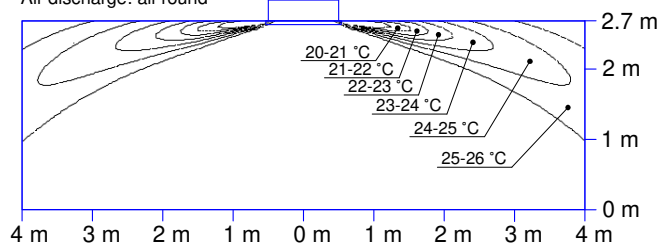
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



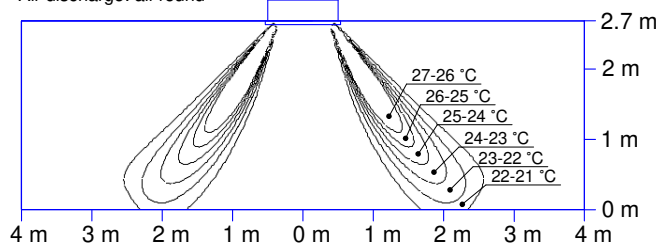
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



3D121621

10 Air flow patterns

10 - 1 Air Flow Pattern - Cooling / Heating

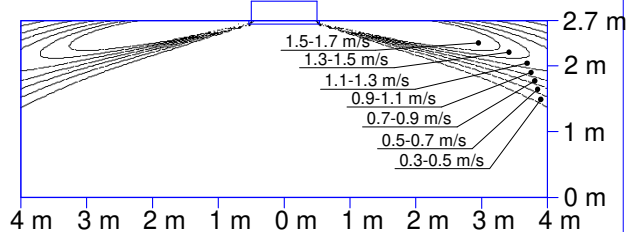
10

FCAG100B

Air velocity distribution (cooling)

Air flow direction: horizontal

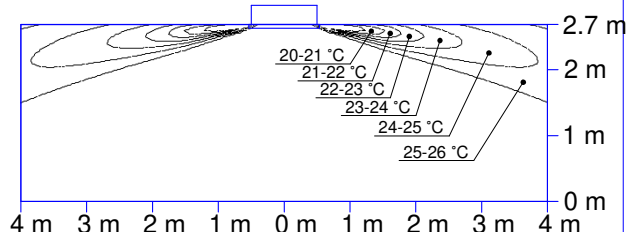
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

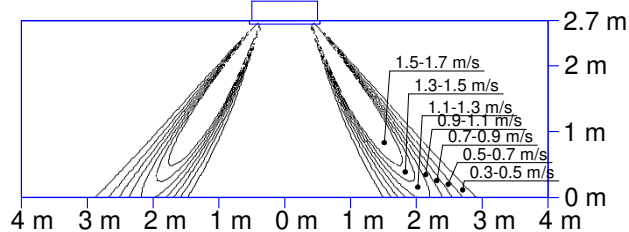
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

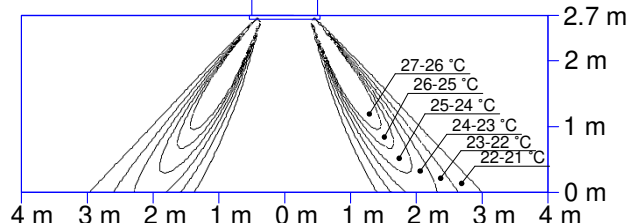
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



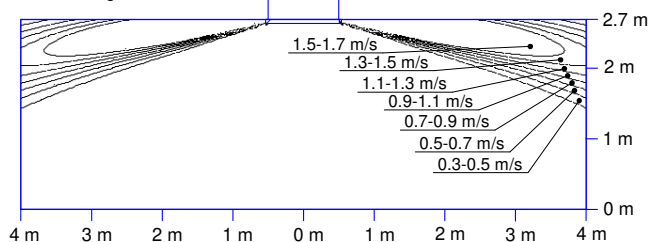
3D121622

FCAG125-140B

Air velocity distribution (cooling)

Air flow direction: horizontal

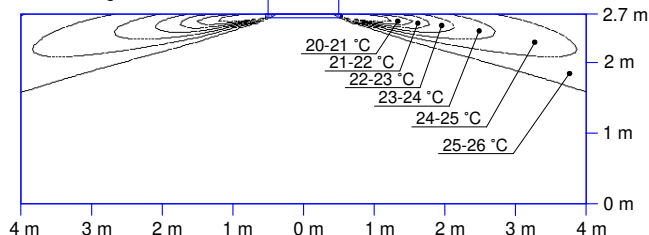
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

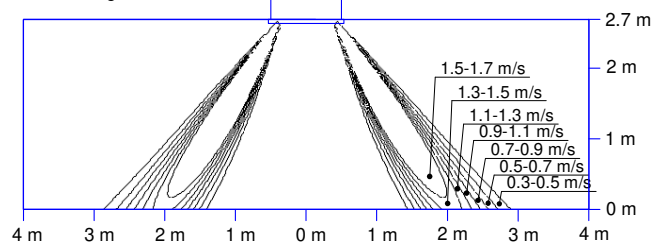
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

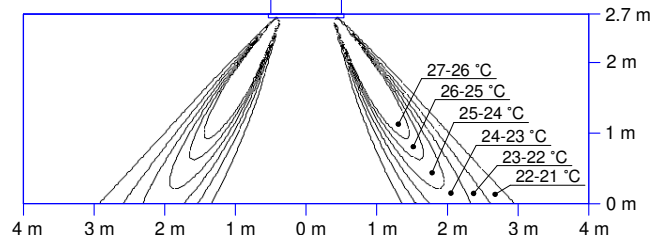
Air discharge: all-round



Air temperature distribution (heating)

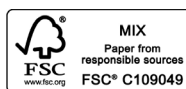
Air flow direction: vertical

Air discharge: all-round



3D121623

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