

Round flow cassette Air Conditioning Technical Data FCAG-B



FCAG35BVEB
FCAG50BVEB
FCAG60BVEB
FCAG71BVEB
FCAG100BVEB
FCAG125BVEB
FCAG140BVEB

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FCAG-B

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1 Features

1 - 1 FCAG-B

- › 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.
- › 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



Onecta app (optional)



Presence & floor sensor



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 (5 steps + auto)



Dry programme



UV Streamer kit (optional)



Air filter



Weekly timer (optional)



Infrared remote control (optional)



Wired remote control (optional)



Centralised control (optional)



Auto-restart



Self diagnosis



Drain pump kit (standard)



Twin/triple/double twin application



Multi model application



VRV for residential application

2 Specifications

2 - 1 Specifications

Technical specifications					FCAG35B	FCAG50B	FCAG60B	FCAG71B	FCAG100B	FCAG125B	FCAG140B
Cooling capacity	Sensible capacity	Nom.		kW	2.45	3.45	3.89	4.40	6.16	8.71	8.68
	Latent capacity	Nom.		kW	1.05	1.55	1.81	2.40	3.34	3.39	4.72
	Total capacity	Nom.		kW	3.50	5.00	5.70	6.80	9.50	12.10	13.40
Heating capacity	Total capacity	Nom.		kW	4.2	6.0	7.0	7.5	10.8	13.5	15.5
Power input - 50Hz	Cooling	Nom.		kW	0.04			0.05	0.08	0.17	
	Heating	Nom.		kW	0.04			0.05	0.08	0.17	
Casing	Material				Galvanised steel plate						
Dimensions	Unit	Height		mm	204				246		
		Width		mm	840						
		Depth		mm	840						
	Packed unit	Height		mm	220				260		
		Width		mm	882						
		Depth		mm	882						
Weight	Unit		kg	18	19		21	23			
	Packed unit		kg	20	21		23	26			
Heat exchanger	Inside length			mm	2,134			2,090			
	Outside length			mm	2,181			2,184			
	Rows	Quantity			2			3			
	Fin pitch			mm	1.2						
	Passes	Quantity		4	6		12	14			
	Face area			m²	0.278	0.366		0.371	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)						
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	17.8	20.4		
			cfm	374	417	431	456	629	720		
		Low	m³/min	8.8	9.4	9.6	10.8	13	13.1		
			cfm	311	332	339	381	459	463		
	Heating	High	m³/min	14.1	14.6	14.9	15.1	23	27		
			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			
Fan	Air flow rate	Heating	Medium	cfm	410	417	431	456	639	713	
			Low	m³/min	9.4		9.6	10.8	13.2	13	
				cfm	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		51		54	58	
	Heating			dBA	49		51		54	58	
Sound pressure level	Cooling	High		dBA	31		33	35	37	41	
		Medium		dBA	29		31	33	33	35	
		Low		dBA	27		28		29		
	Heating	High		dBA	31		33		37	41	
		Medium		dBA	29		31		33	35	
		Low		dBA	27		28		29		
Refrigerant	Type				R-32 / R-410A						
Piping connections	Sound absorbing insulation				Foamed polyurethane						
	Liquid	Type			Flare connection						
		OD		mm	6.35				9.52		
	Gas	Type			Flare connection						
		OD		mm	9.52	12.7		15.9			
	Drain				VP25 (O.D. 32 / I.D. 25)						
Heat insulation				Foamed polystyrene / Foamed polyethylene							
Decoration panel	Model				BYCQ140E2W1 / BYCQ140E2W1W / BYCQ140E2W1B						
	Dimensions	Height		mm	65						
		Width		mm	950						
		Depth		mm	950						
	Weight			kg	5.5						

2 Specifications

2 - 1 Specifications

2

Technical specifications			FCAG35B	FCAG50B	FCAG60B	FCAG71B	FCAG100B	FCAG125B	FCAG140B
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				
Decoration panel 3	Weight		kg		6.5				
Air filter	Type		Resin net						
Safety devices	Item	01	PC board fuse				-		
		02	Fan motor overcurrent protector						
Control systems	Infrared remote control		BRC7FA532F / BRC7FB532F / BRC7FA532FB / BRC7FB532FB						
	Wired remote control		BRC1D528 / BRC1E53A7 / BRC1E53B7 / BRC1E53C7 / BRC1H81W/S / BRC1H51(9)W/S/K7 / BRC2E52C7 / BRC3E52C7						

Standard accessories: Installation manual;Quantity: 1;

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

Standard accessories: Operation manual;Quantity: 1;

Standard accessories: Wire clamp material;Quantity: 7;

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

Standard accessories: Clamps;Quantity: 1;

Standard accessories: Drain hose;Quantity: 1;

Standard accessories: Installation guide;Quantity: 1;

Standard accessories: Insulation for fitting;Quantity: 2;

Standard accessories: Screws;Quantity: 4;

Standard accessories: Sealing pads;Quantity: 1;

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

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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Options

Options

FCAG-B FCAHG-H

Option kit		Product name	Availability	
			FCAG35-140RVEB FCAHG7.140HVEB	FXQ20.125RVEB
Decoration panel	Standard	BYCQ140E2W1	✓	✓
	White	BYCQ140E2W1W ②	✓	✓
	Black	BYCQ140E2W1B ③	✓	✓
UV streamer kit	UV streamer kit	BAEF12SAWB ⑧⑩	✓	✓
	Replacement air filter (part of UV streamer kit)	BAF55A125 ⑧⑩	✓	✓
High-efficiency filter	1- filter(s) in the box	BAF552AA160 ⑨⑩	✓	✓
	5- filter(s) in the box	BAF552AA160-5 ⑨⑩	✓	✓
	10- filter(s) in the box	BAF552AA160-10 ⑨⑩	✓	✓
Designer decoration panel		BYCQ140E2P ⑩	✓	✓
	Black	BYCQ140E2PB ⑩	✓	✓
Self-cleaning decoration panel (with fine filter)		BYCQ140E2GFW1 ③④⑤⑩	✓	✓
	Black	BYCQ140E2GFW1B ③④⑤⑩	✓	✓
Long-life replacement filter		KAFF511D160 ⑩	✓	✓
Chamber (part of fresh air intake kit (20% fresh air))		KDDP55C160-1 ⑥⑦⑩	✓	✓
Diffuser from chamber to duct (part of fresh air intake kit (20% fresh air))		KDDP55D160-2 ⑥⑦⑩	✓	✓
Air discharge outlet sealing member		KDBHQ56B140 ⑥⑩	✓	✓
Sensor kit		BRVQ140B8 ⑧	✓	✓
Sensor kit		BRVQ140B8B ⑧	✓	✓
Sensor kit (for designer decoration panel)		BRVQ140C8 ④	✓	✓
Sensor kit (for designer decoration panel)		BRVQ140C8B ④	✓	✓
Extension wire harness		EWHR1 ⑩	✓	✓
Wireless remote control		BRC7FA532F ⑥⑩⑩	✓	✓
	Black	BRC7FA532Fb ⑥⑩⑩	✓	✓
Wireless remote control (for designer decoration panel)		BRC7FB532F ⑥⑩⑩	✓	✓
	Black	BRC7FB532Fb ⑥⑩⑩	✓	✓
Wired remote control		BRC1D528 ⑩⑩	✓	✓
Wired remote control		BRC1H82W/S	✓	✓
Wired remote control		BRC1E53A7 ⑩, BRC1E53B7 ⑩, BRC1E53C7 ⑩⑩, BRC1H52W/K/S	✓	✓
Simplified remote control (with operation mode selector button)		BRC2E52C7 ⑩⑩⑩	✓	✓
Simplified remote control (without operation mode selector button)		BRC3E52C7 ⑩⑩⑩	✓	✓
Wiring adaptor for electrical appendices 1-		KRP1BA58 ⑥⑩	✓	✓
Wiring adaptor for electrical appendices 2-		KRP4A53 ⑥⑩⑩	✓	✓
Wiring adaptor (hour meter)		EKRP1C12 ⑥⑩	✓	✓
Remote sensor		KRC501-SB	✓	✓
Installation box for adaptor PCB		KRP1H98A ⑥	✓	✓
Central remote control		DCS302C51	✓	✓
Unified ON/OFF controller		DCS301B51	✓	✓
Electrical box with earth terminal (2- blocks)		KIB212AA	✓	✓
Electrical box with earth terminal (3- blocks)		KIB311AA	✓	✓
PCB for multi-tenant indoor units		DTA11A461 ⑩	✓	✓
Touch Controller		DCS601C51	✓	✓
Digital input adaptor		BRP7A53 ⑩⑩	✓	✓
WLAN adaptor for smartphones		BRP069C82 ②⑩⑩⑩	✓	✓
Intelligent Touch Manager		DCM601A51	✓	✓
Intelligent Tablet Controller		DCG501A51	✓	✓
Wire harness for external wireless temperature sensor		EKEWTSC-2 ⑦	✓	✓

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FCAG-B FCAHG-H

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 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 -EKPCCAB3- in combination with the Updater PC software, you can additionally change the language to:
Language pack -2-: English, Bulgarian, Croatian, Czech, Hungarian, Romanian, and Slovenian.
Language pack -3-: English, Greek, Polish, Russian, Serbian, Slovak, and Turkish.
- ⑱ Requires installation box for adaptor PCB -KRP1H98A-.
- ⑲ Option cannot be combined with -BRP069B82, BRP069C82-.
- ⑳ Only possible in combination with remote control -BRC2/3E52C7, BRC1E53A/B/C7, BRC1H52W/K/S, BRC1H82W/S-.
- ㉑ Only possible in combination with wired or wireless remote control (e.g. -BRC1E, BRC1H, BRC7F-)
- ㉒ When combining the WLAN adapter (-BRP069C82 / BRP069B82-) with a self-cleaning decoration panel (-BYCQ140E2GFW1 / BYCQ140E2GFW1B-), option -EWHR1- is required.
- ㉓ 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.
- ㉘ Option cannot be combined with -BYCQ140E2W1B, BYCQ140E2P, BYCQ140E2PB, BYCQ140E2GFW1, BYCQ140E2GFW1B, KAFF511D160, KDDP55C160-1, KDDP55D160-2, KDBHQ56B140, BAF552AA160, BAF552AA160-5, BAF552AA160-10-.
- ㉙ Option cannot be combined with -BYCQ140E2P, BYCQ140E2PB, BYCQ140E2GFW1, BYCQ140E2GFW1B, KAFF511D160, KDDP55C160-1, KDDP55D160-2, KDBHQ56B140, BAEF12SAWB, BAF55A125-.
- ㉚ Option cannot be combined with -BAEF12SAWB, BAF55A125, BAF552AA160, BAF552AA160-5, BAF552AA160-10-.
- ㉛ Option cannot be combined with -BAEF12SAWB, BAF55A125-.
- ㉜ Do NOT install in places that require a high ceiling mode setting and 2/3 way blow mode setting of the indoor unit.

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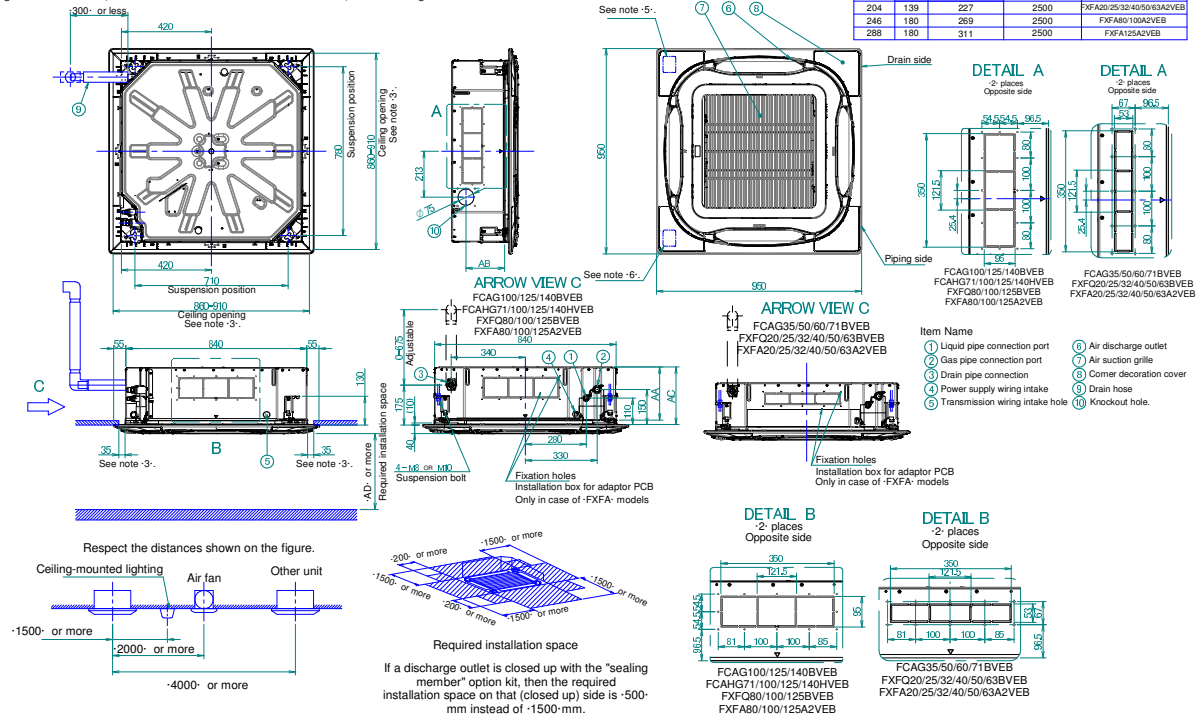
5 Dimensional drawings

5 - 1 Dimensional Drawings with Accessories

FCAG-B FCAHG-H Standard panel

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.

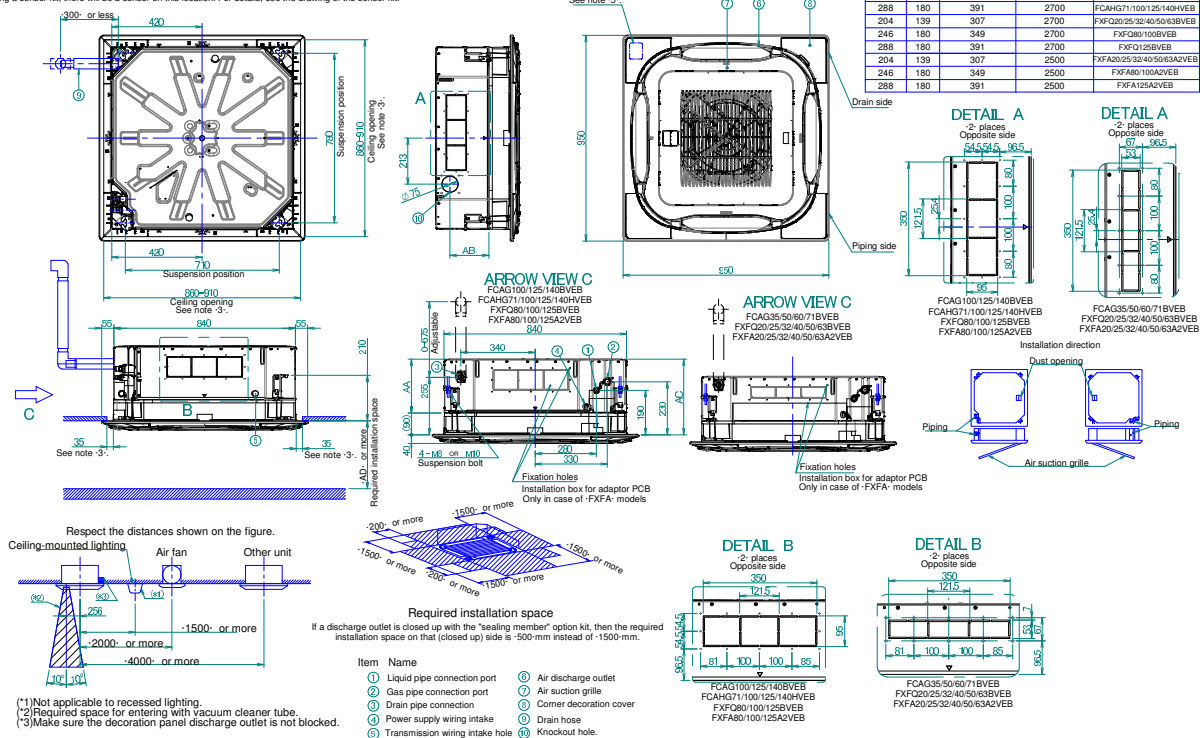


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FCAG-B FCAHG-H Auto cleaning panel

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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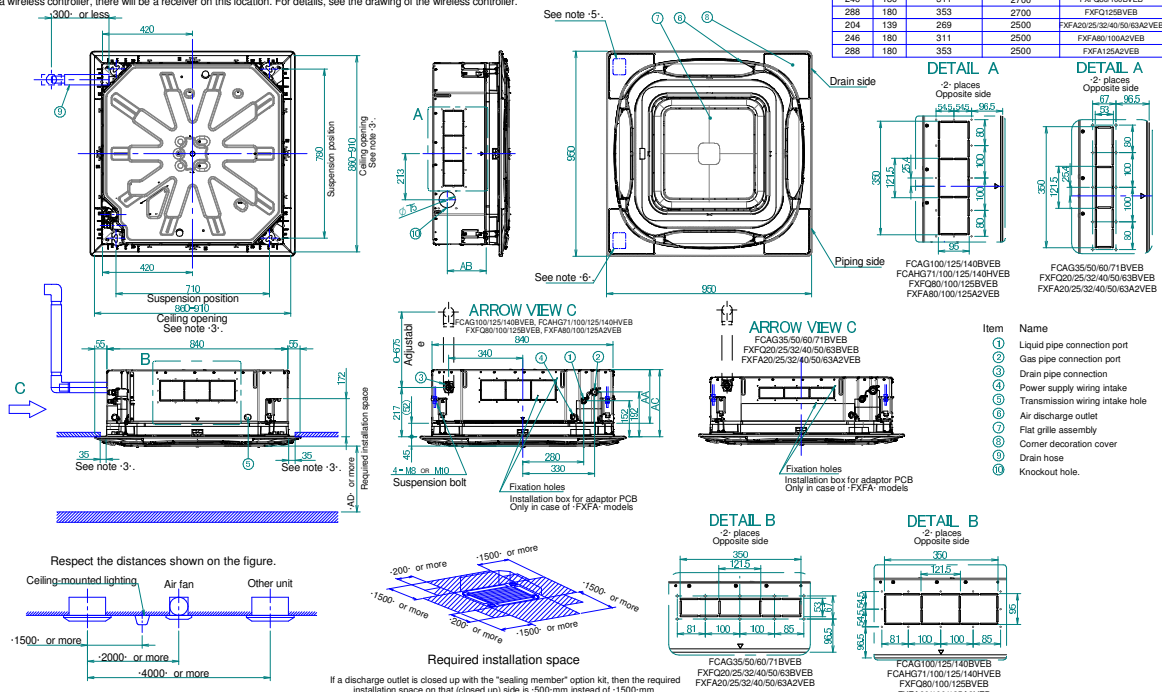
5 Dimensional drawings

5 - 1 Dimensional Drawings with Accessories

FCAG-B FCAHG-H Designer panel

Notes

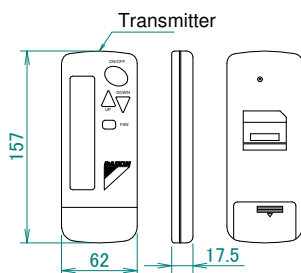
- Location of nameplate
The unit nameplate is located on the control box cover.
The decoration panel nameplate is located on the piping-side panel frame, under the corner cover.
- When installing optional accessories, refer to their respective documentation.
- Make sure the distance between the ceiling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



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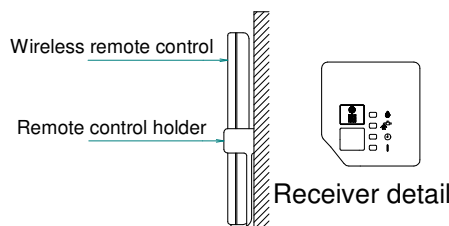
FCAG-B

Remote control dimensions

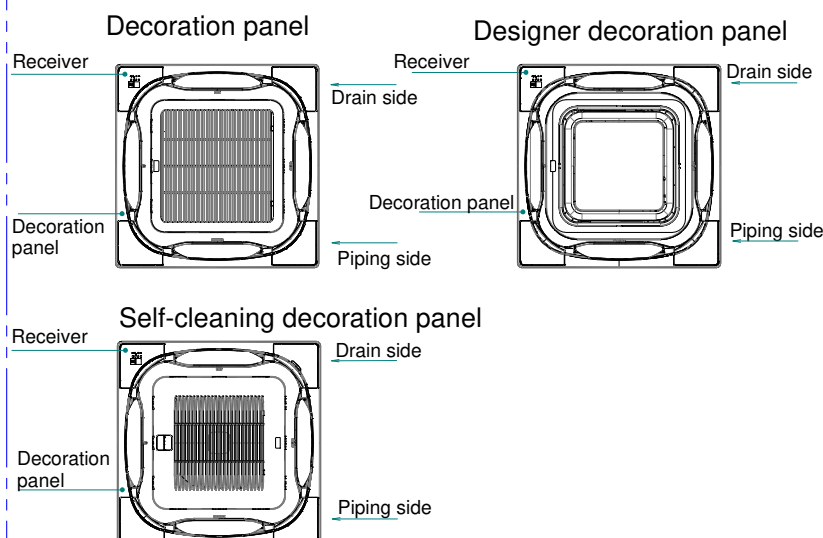


Remote control holder

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

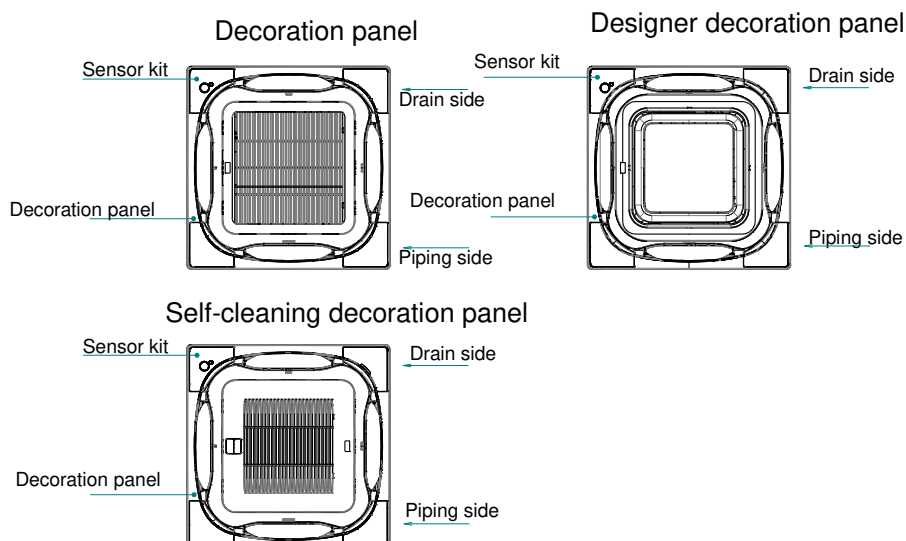
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5 Dimensional drawings

5 - 1 Dimensional Drawings with Accessories

FCAG-B

Installation methods



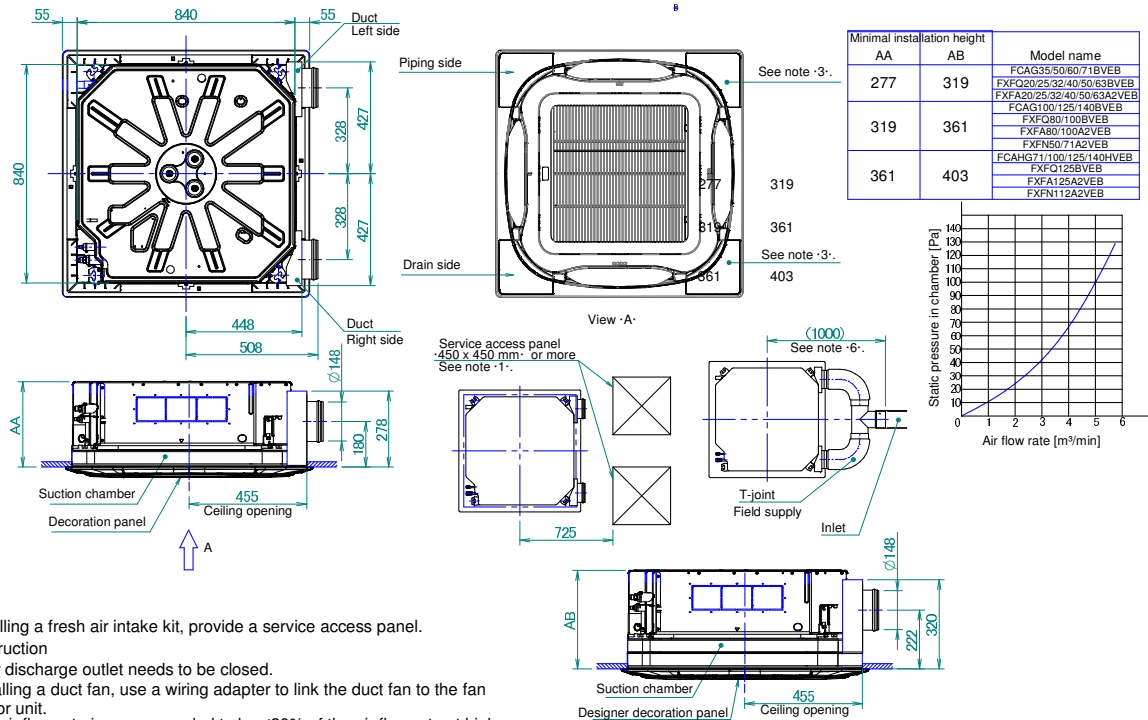
Front panel	Model name	Option
Decoration panel	BYCQ140E2W1(W)	BRYQ140B8
	BYCQ140E2W1B	BRYQ140B8B
Self-cleaning decoration panel	BYCQ140E2GFW1	BRYQ140B8
	BYCQ140E2GFW1B	BRYQ140B8B
Designer decoration panel	BYCQ140E2P	BRYQ140C8
	BYCQ140E2PB	BRYQ140C8B

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5 Dimensional drawings

5 - 2 Dimensional Drawings with Fresh Air Intake

FCAG-B
FCAHG-H



Notes

- When installing a fresh air intake kit, provide a service access panel.
- Field construction
- This corner discharge outlet needs to be closed.
- When installing a duct fan, use a wiring adapter to link the duct fan to the fan of the indoor unit.
- 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.
- This indicates the distance between the T-joint inlet and the indoor unit inlet when the T-tube is connected.

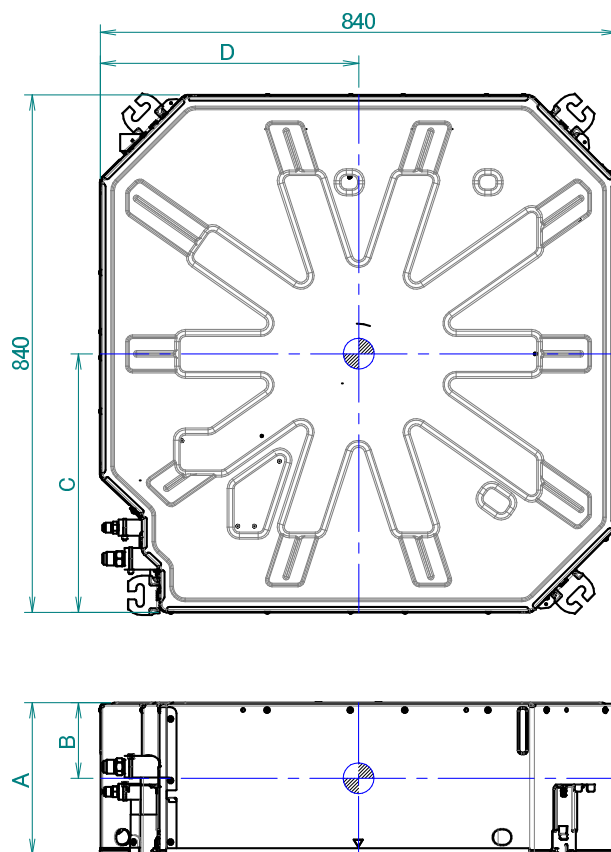
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6 Centre of gravity

6 - 1 Centre of Gravity

FCAG-B FCAHG-H

6



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

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7 Piping diagrams

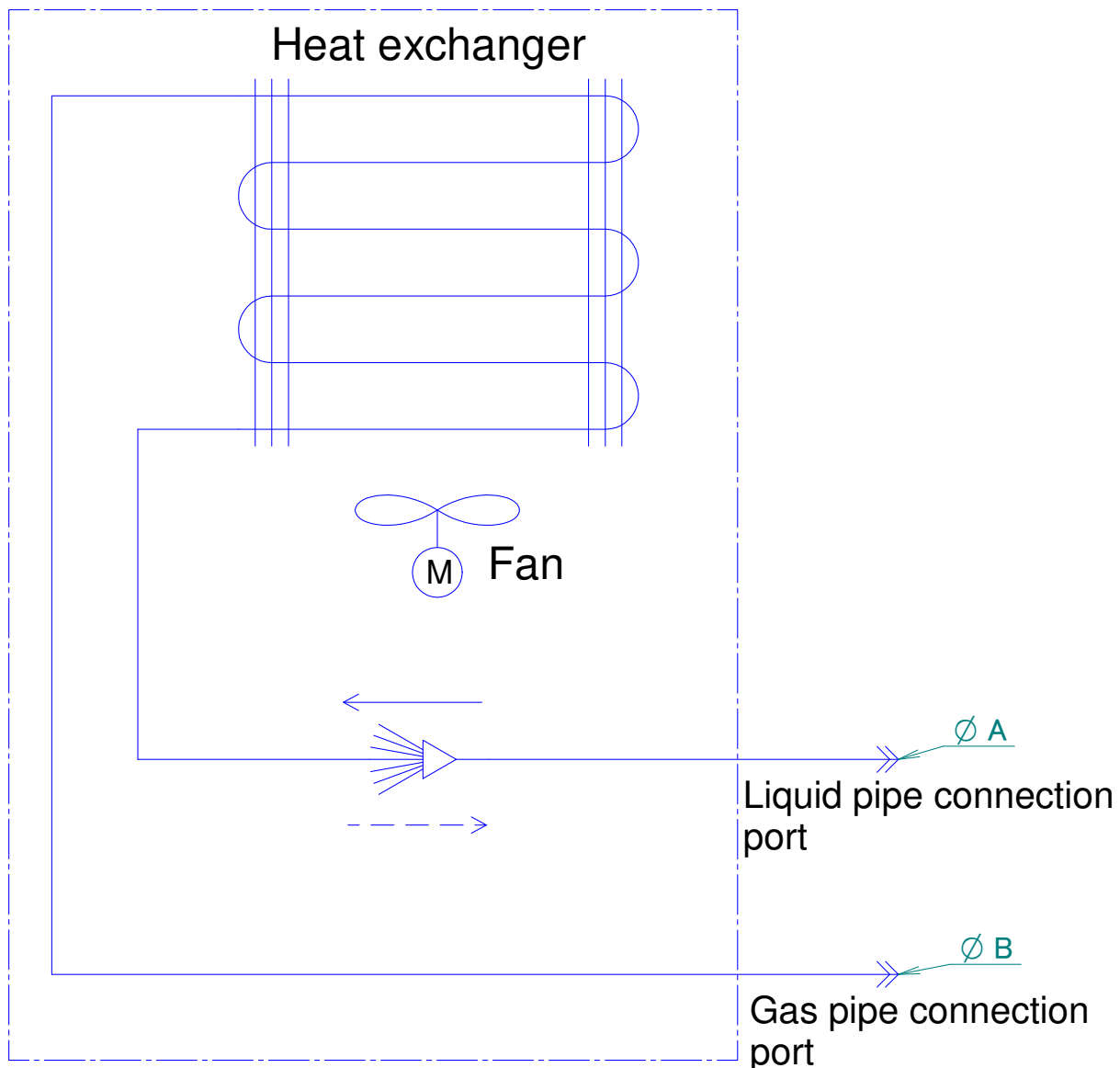
7 - 1 Piping Diagrams

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 - - - - ->



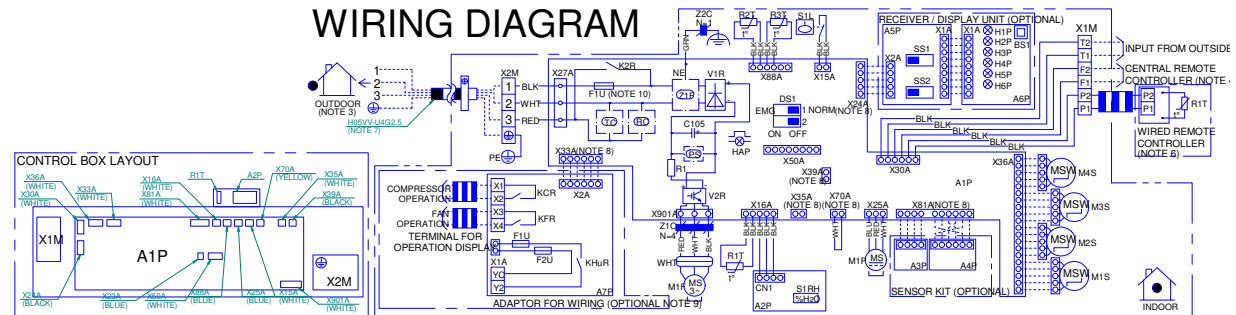
4D121433

8 Wiring diagrams

8 - 1 Wiring Diagrams - Single Phase

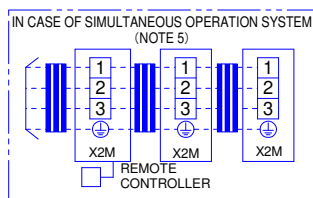
FCAG-B

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.



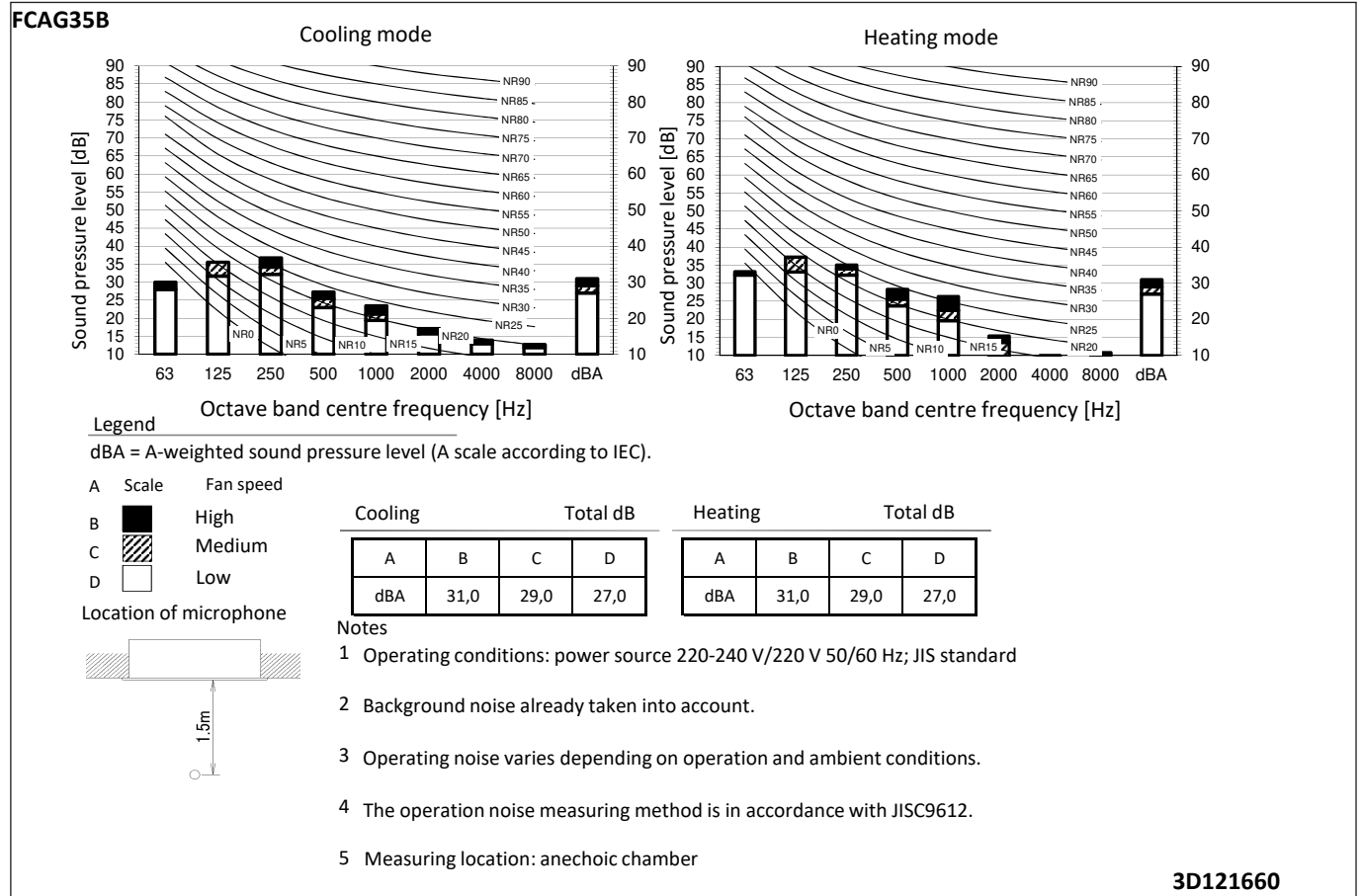
WIRE COLORS

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

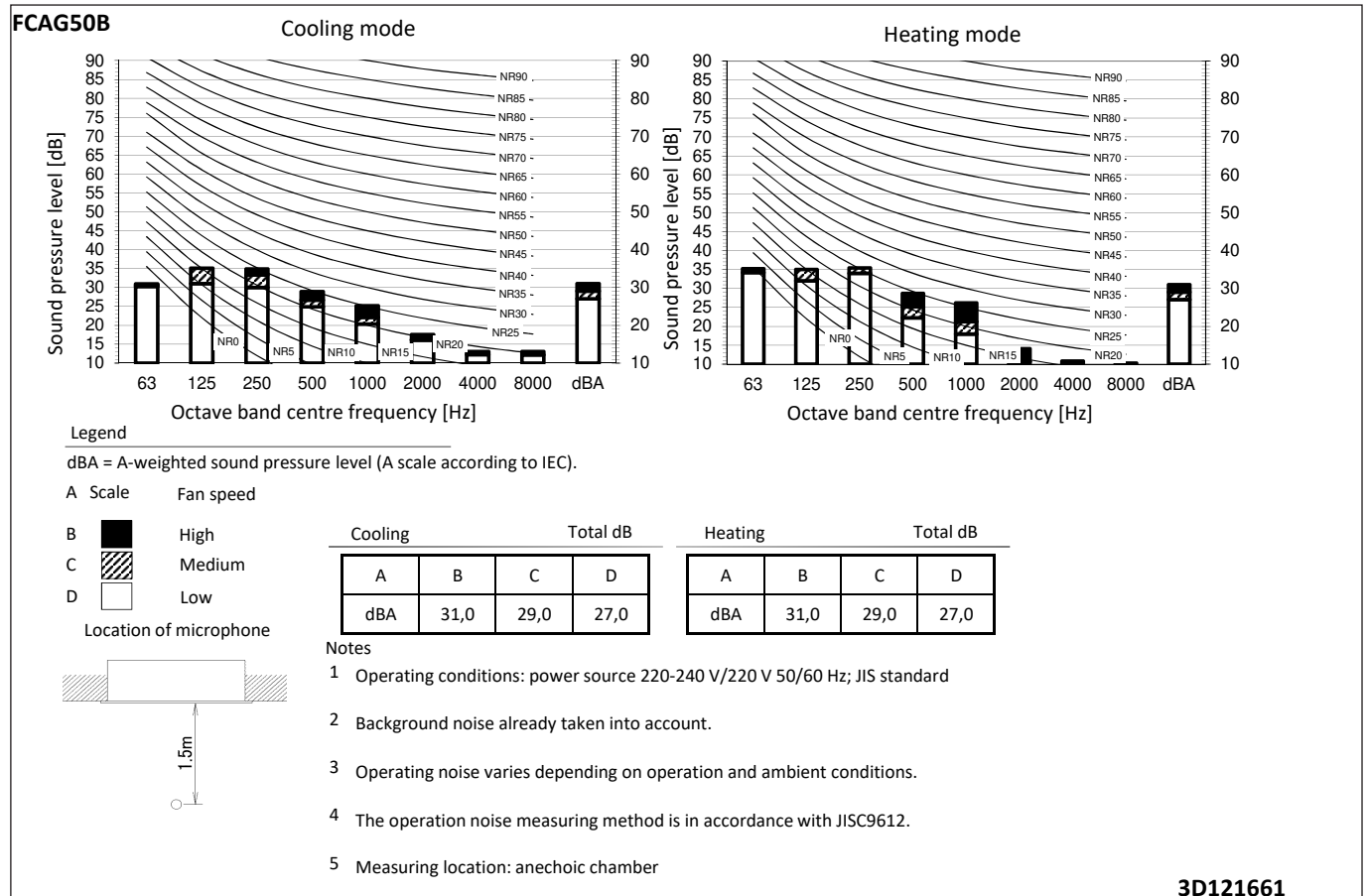
INDOOR UNIT		H2P	PILOT LAMP (TIMER: GREEN)	
A1P	MAIN PCB	H3P	PILOT LAMP	
C105	CAPACITOR		(FILTER SIGN: RED)	
DS1	DIP SWITCH ON PCB	H4P	PILOT LAMP	
F1U	FUSE (T, 3.15A 250V)		(DEFROST: ORANGE)	
HAP	FLASHING LAMP	H5P	PILOT LAMP	
	(SERVICE MONITOR: GREEN)		(ELEMENT CLEANING: RED)	
K2R	MAGNETIC RELAY	H6P	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	ADAPTOR PCB	
R2T, R3T	THERMISTOR (COIL)	F1U	FUSE (5A, 250V)	
S1L	FLOAT SWITCH (DRAIN PUMP)	F2U	FUSE (5A, 250V)	
V1R	DIODE BRIDGE	K4R	MAGNETIC RELAY	
V2R	IGBT POWER MODULE	KCR	MAGNETIC RELAY	
X15-901A	CONNECTOR	KFR	MAGNETIC RELAY	
X1M	TERMINAL BLOCK	X1-2A	CONNECTOR	
	(REMOTE CONTROLLER)	CONNECTORS FOR OPTIONAL PARTS		
X2M	TERMINAL BLOCK	X24A	CONNECTOR	
	(POWER SUPPLY)		(WIRELESS REMOTE CONTROLLER)	
Z1C, Z2C	FERRITE CORE	X33A	CONNECTOR	
Z1F	NOISE FILTER		(ADAPTOR FOR WIRING)	
PS	POWER SUPPLY CIRCUIT	X35A	CONNECTOR	
PC	SIGNAL RECEIVER CIRCUIT	X39A	CONNECTOR	
TC	SIGNAL TRANSMISSION CIRCUIT		(AUTO CLEAN PANEL)	
NE	NOISELESS EARTH	X50A	CONNECTOR (WI-FI ADAPTOR)	
	SENSOR KIT		X81A	CONNECTOR (SENSOR KIT)
A3P, A4P	SENSOR KIT PCB	W1R	WIRELESS REMOTE CONTROLLER	
	WIRELESS REMOTE CONTROLLER (RECEIVER / DISPLAY UNIT)			THERMISTOR (AIR)
A5P	RECEIVER PCB	HUMIDITY SENSOR		
A6P	DISPLAY PCB	A2P	SENSOR PCB	
BS1	PUSH BUTTON (ON/OFF)	S1RH	HUMIDITY SENSOR	
H1-2A	CONNECTOR	CN1	CONNECTOR	
H1P	PILT LAMP (ON: RED)			

9 Sound data

9 - 1 Sound Pressure Spectrum



3D121660



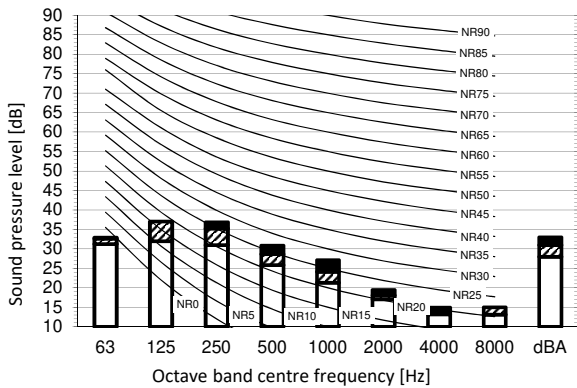
3D121661

9 Sound data

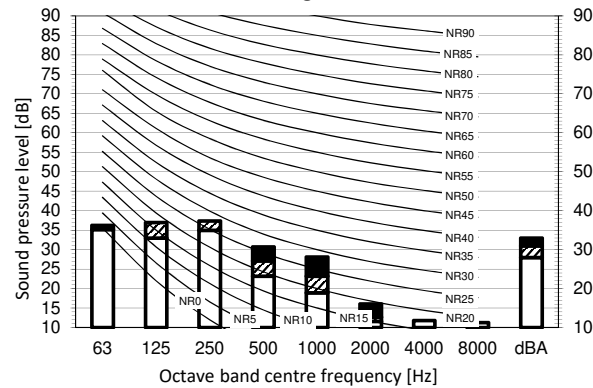
9 - 1 Sound Pressure Spectrum

FCAG60B

Cooling mode



Heating mode



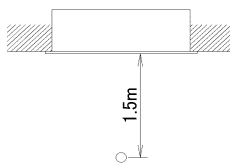
Legend

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	33,0	31,0	28,0

Heating

Total dB

A	B	C	D
dBA	33,0	31,0	28,0

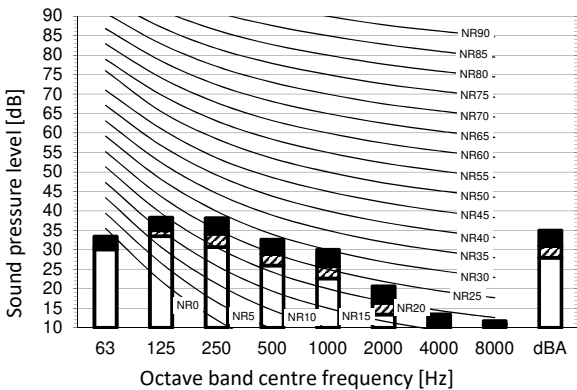
Notes

- 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

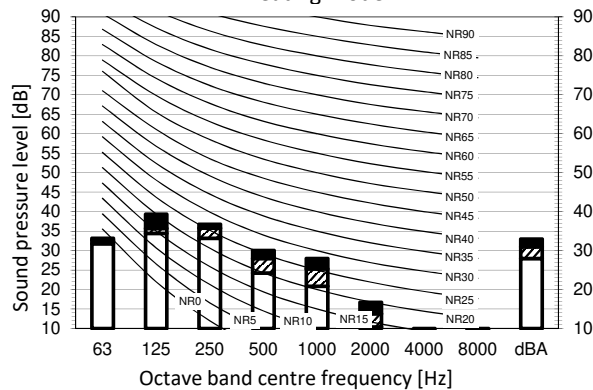
3D121662

FCAG71B

Cooling mode



Heating mode



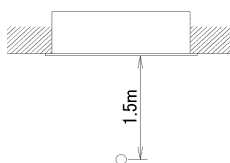
Legend

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	35,0	31,0	28,0

Heating

Total dB

A	B	C	D
dBA	33,0	31,0	28,0

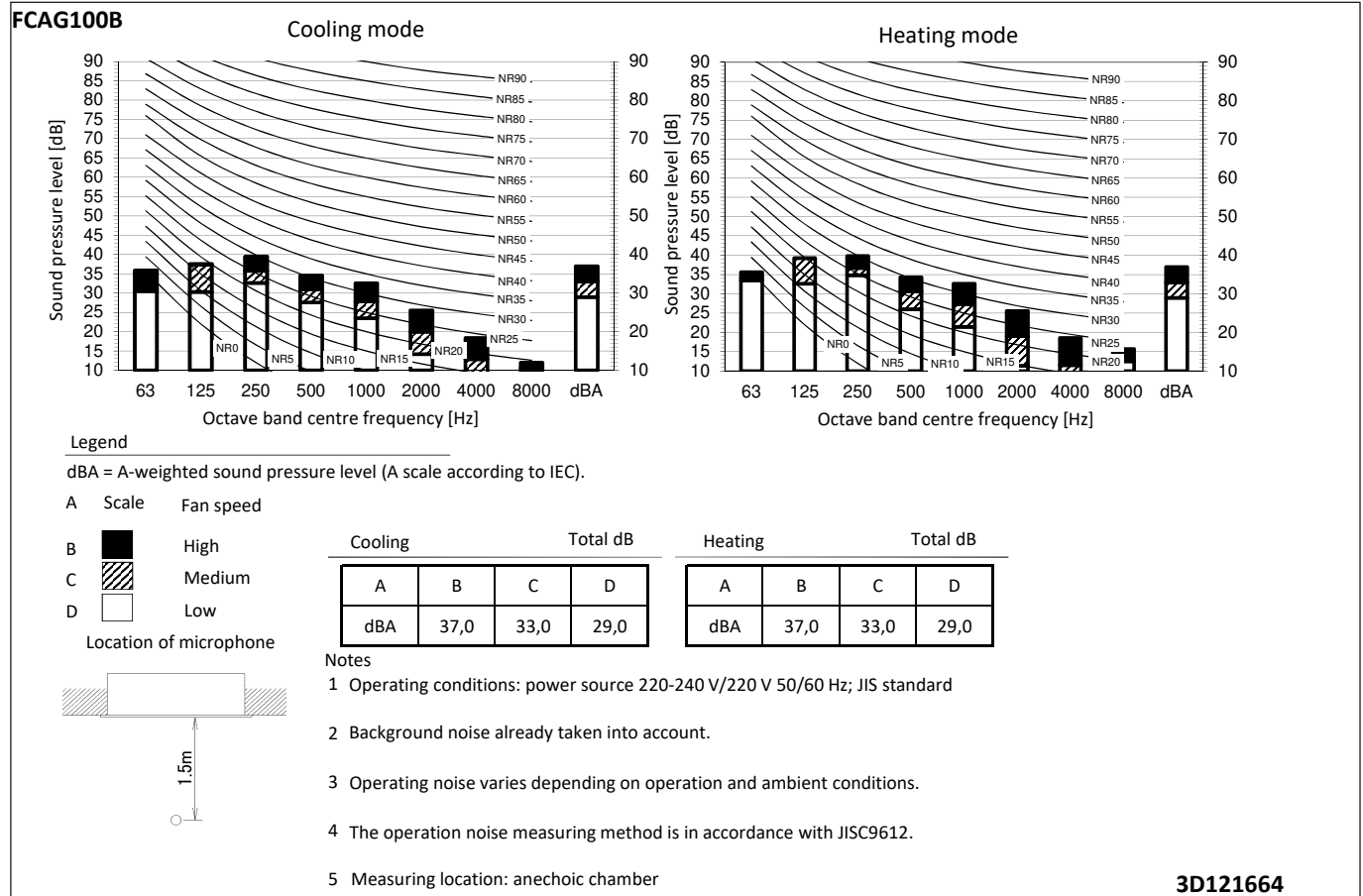
Notes

- 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

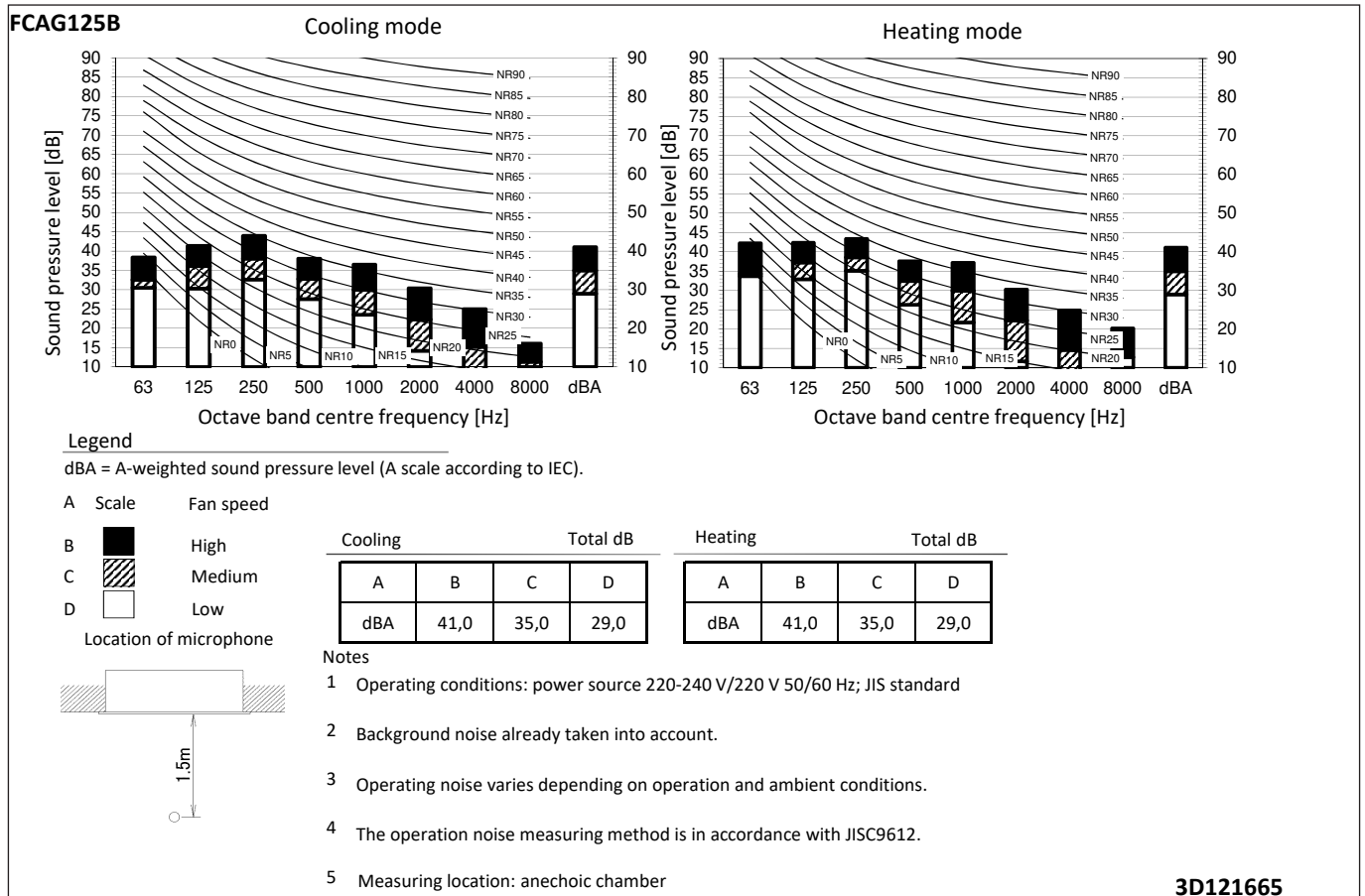
3D121663

9 Sound data

9 - 1 Sound Pressure Spectrum



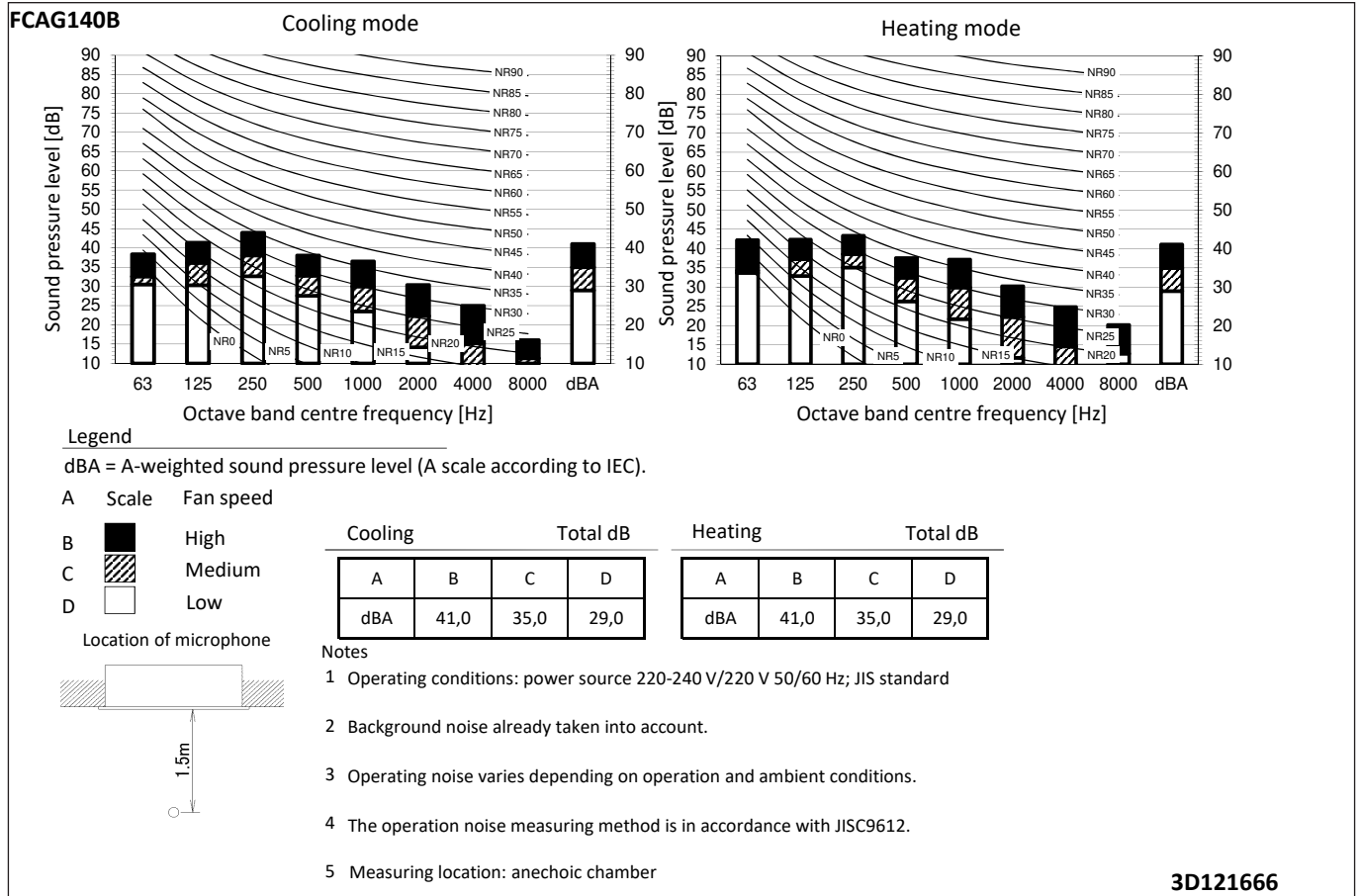
3D121664



3D121665

9 Sound data

9 - 1 Sound Pressure Spectrum



10 Air flow patterns

10 - 1 Air flow pattern - Cooling and Heating

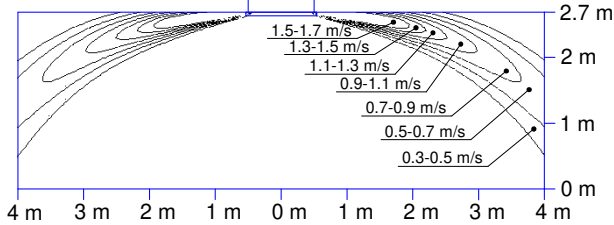
10

FCAG35B

Air velocity distribution (cooling)

Air flow direction: horizontal

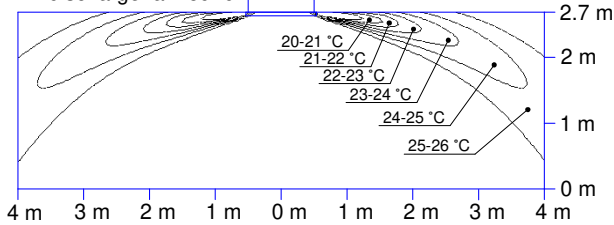
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

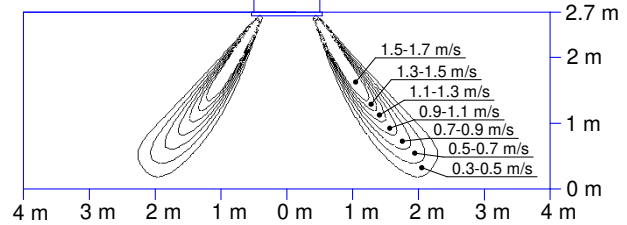
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

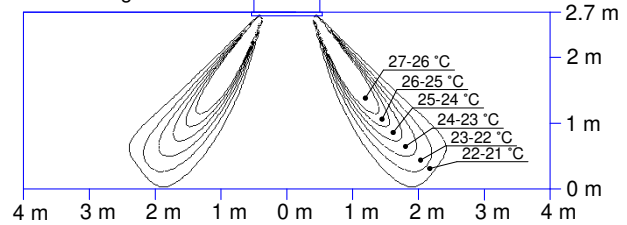
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



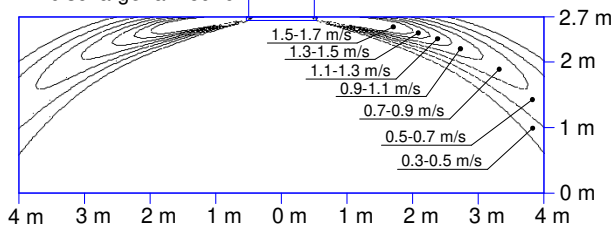
3D121618

FCAG50B

Air velocity distribution (cooling)

Air flow direction: horizontal

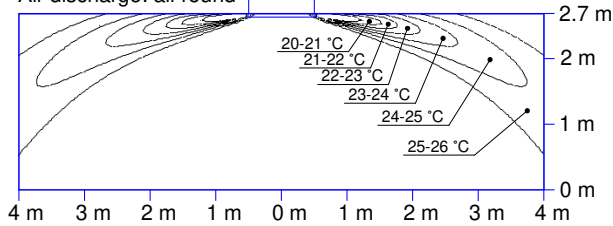
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

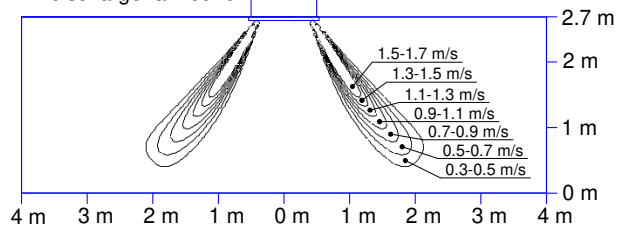
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

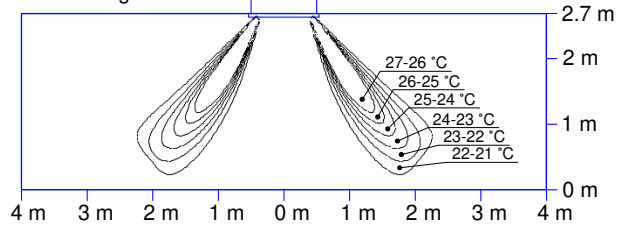
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



3D121619

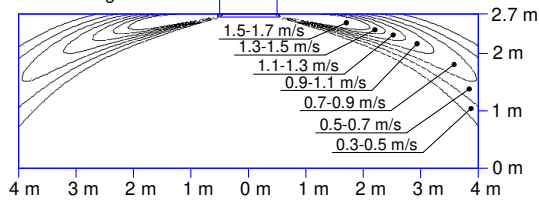
10 Air flow patterns

10 - 1 Air flow pattern - Cooling and Heating

FCAG60B

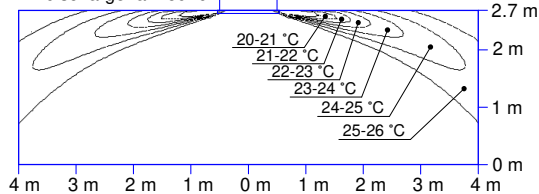
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



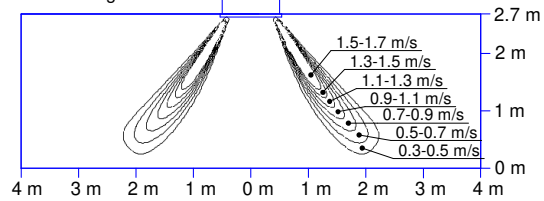
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



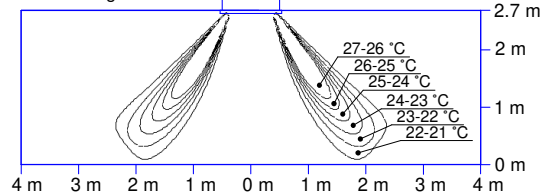
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round

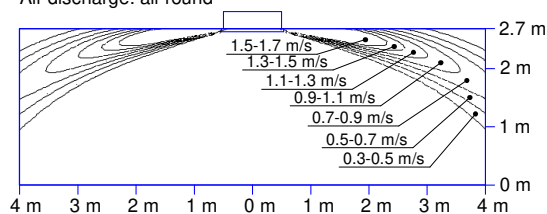


3D121620A

FCAG71B

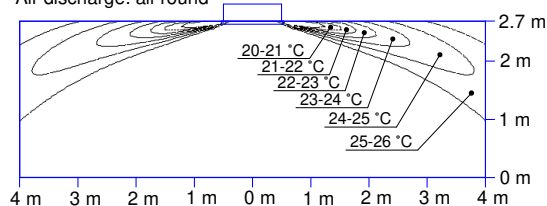
Air velocity distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



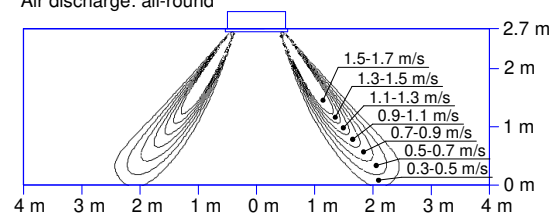
Air temperature distribution (cooling)

Air flow direction: horizontal
Air discharge: all-round



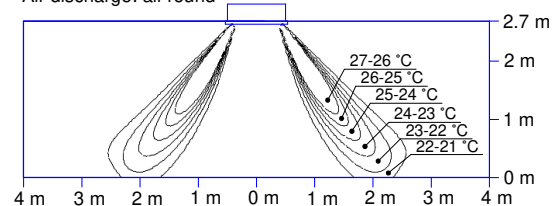
Air velocity distribution (heating)

Air flow direction: vertical
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical
Air discharge: all-round



3D121621A

10 Air flow patterns

10 - 1 Air flow pattern - Cooling and Heating

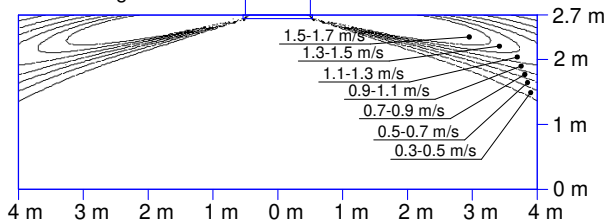
10

FCAG100B

Air velocity distribution (cooling)

Air flow direction: horizontal

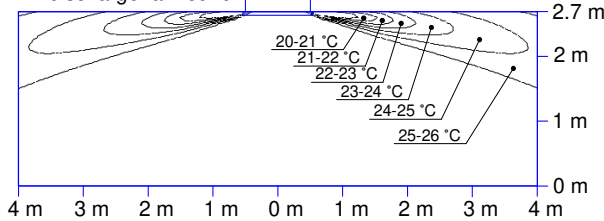
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

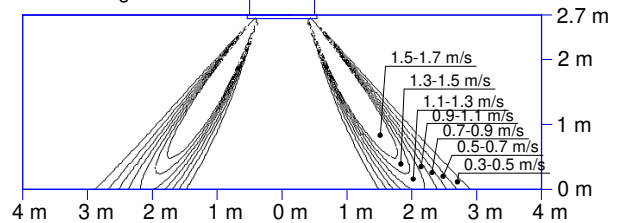
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

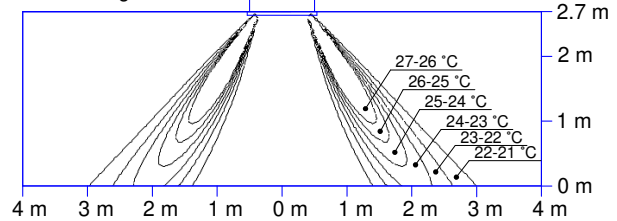
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



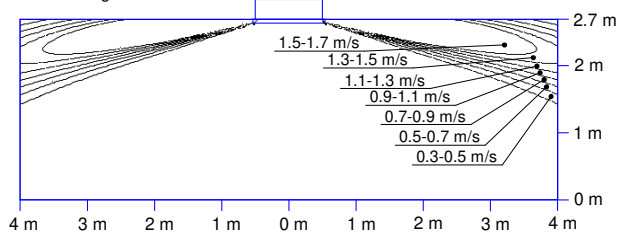
3D121622A

FCAG125-140B

Air velocity distribution (cooling)

Air flow direction: horizontal

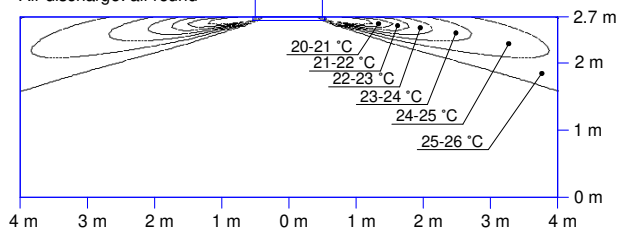
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

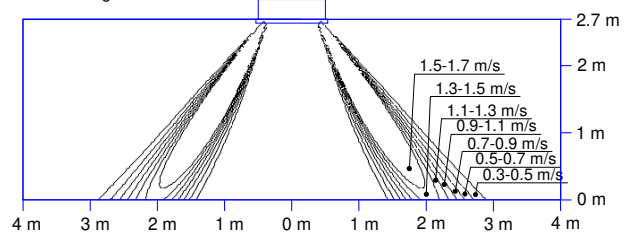
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

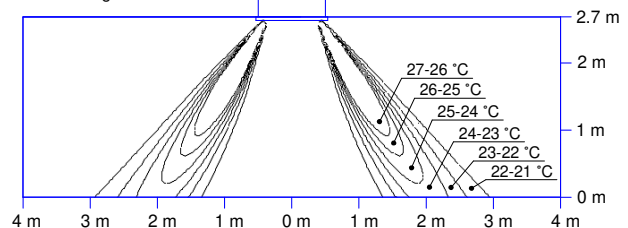
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



3D121623