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, symplifying 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	1.20						
	Passes	Quantity			4	6		12	14		
	Face area			m^2	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	m^3/min	12.9	14.6	14.9	15.1	22.7	27.2	
				cfm	446	516	526	533	802	961	
			Medium	m^3/min	10.6	11.8	12.2	13.0	17.8	20.4	
				cfm	374	417	431	456	629	720	
			Low	m^3/min	8.8	9.4	9.6	10.8	13.0	13.1	
				cfm	311	332	339	381	459	463	
		Heating	High	m^3/min	14.1	14.6	14.9	15.1	23.0	27.0	
				cfm	498	516	526	533	812	954	
			Medium	m^3/min	11.6	11.8	12.2	12.9	18.1	20.2	
Fan	Air flow rate	Heating	Medium	cfm	410	417	431	456	639	713	
			Low	m^3/min	9.4		9.6	10.8	13.2	13.0	
				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	49.0		51.0		54.0	58.0	
	Heating			dBA	49.0		51.0		54.0	58.0	
Sound pressure level	Cooling	High		dBA	31.0		33.0	35.0	37.0	41.0	
		Medium		dBA	29.0		31.0		33.0	35.0	
		Low		dBA	27.0		28.0		29.0		
	Heating	High		dBA	31.0		33.0		37.0	41.0	
		Medium		dBA	29.0		31.0		33.0	35.0	
		Low		dBA	27.0		28.0		29.0		
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	12.70		15.90			
	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

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: Operation manual;Quantity: 1;

Standard accessories: Installation manual;Quantity: 1;

Standard accessories: Drain hose;Quantity: 1;

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

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

Standard accessories: Screws;Quantity: 4;

Standard accessories: Installation guide;Quantity: 1;

Standard accessories: Insulation for fitting;Quantity: 2;

Standard accessories: Sealing pads;Quantity: 1;

Standard accessories: Wire clamp material;Quantity: 7;

Standard accessories: Clamps;Quantity: 1;

Electrical specifications			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 enviroments 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
FCAHG-H

Option kit		Product name	Availability	
			FCAG35-140BVEB FCAHG71-140HVEB	FXFQ20-125BVEB
Decoration panel	Standard	BYCQ140E2W1	✓	✓
	White	BYCQ140E2W1W ②	✓	✓
	Black	BYCQ140E2W1B	✓	✓
Designer decoration panel		BYCQ140E2P	✓	✓
Designer decoration panel	Black	BYCQ140E2PB	✓	✓
Self-cleaning decoration panel (with fine filter)		BYCQ140E2GFW1 ③④⑤	✓	✓
Self-cleaning decoration panel (with fine filter)	Black	BYCQ140E2GFW1B ③④⑤	✓	✓
Long-life replacement filter		KAF5511D160	✓	✓
Chamber [part of fresh air intake kit (-20-% fresh air)]		KDDP55C160-1 ⑥⑦	✓	✓
Diffuser from chamber to duct [part of fresh air intake kit (-20-% fresh air)]		KDDP55D160-2 ⑥⑦	✓	✓
Air discharge outlet sealing member		KDBHQ56B140 ⑥	✓	✓
Sensor kit		BRYQ140B8 ⑧	✓	✓
Sensor kit	Black	BRYQ140B8B ⑨	✓	✓
Sensor kit (for designer decoration panel)		BRYQ140C8 ㉔	✓	✓
Sensor kit (for designer decoration panel)	Black	BRYQ140C8B ㉕	✓	✓
Extension wire harness		EWHAR1 ㉒	✓	
Wireless remote control		BRC7FA532F ⑥⑩㉖	✓	✓
Wireless remote control	Black	BRC7FA532FB ⑥⑪㉖	✓	✓
Wireless remote control (for designer decoration panel)		BRC7FB532F ⑥㉔㉖	✓	✓
Wireless remote control (for designer decoration panel)	Black	BRC7FB532FB ⑥㉕㉖	✓	✓
Wired remote control		BRC1D528 ⑫㉖	✓	✓
Wired remote control		BRC1H82W/S		✓
Wired remote control		BRC1E53A7 ⑬, BRC1E53B7 ⑭, BRC1E53C7 ⑮⑯, BRC1H52W/K/S	✓	✓
Simplified remote control (with operation mode selector button)		BRC2E52C7 ⑯⑰㉖	✓	✓
Simplified remote control (without operation mode selector button)		BRC3E52C7 ⑯⑰㉖	✓	✓
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 ⑱⑳	✓	✓
Wi-Fi adaptor for smartphones		BRP069B82 ㉑㉒㉓	✓	
Intelligent Touch Manager		DCM601A51	✓	✓
Intelligent Tablet Controller		DCC601A51	✓	✓
Wire harness for external wireless temperature sensor		EKEWTSC-2 ㉗	✓	✓

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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 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 ·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 This option cannot be combined with ·BRP069B82·.
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 Wi-Fi adaptor (·BRP069B82·) with a self-cleaning decoration panel (·BYCQ140E2GFW1 / BYCQ140E2GFW1B·), option ·EWHAR1· is required.
㉓ This option cannot be combined with ·KRP4A53·.
㉔ Only possible in combination with ·BYCQ140E2P·
㉕ Only possible in combination with ·BYCQ140E2PB·
㉖ The active airflow circulation function is not available for this controller.
㉗ ·EKEWTSC-2· is a wire harness for the connection of option ·K.RSS·.
·K.RSS· is not an official option. Sales for this option are an SBU responsibility.

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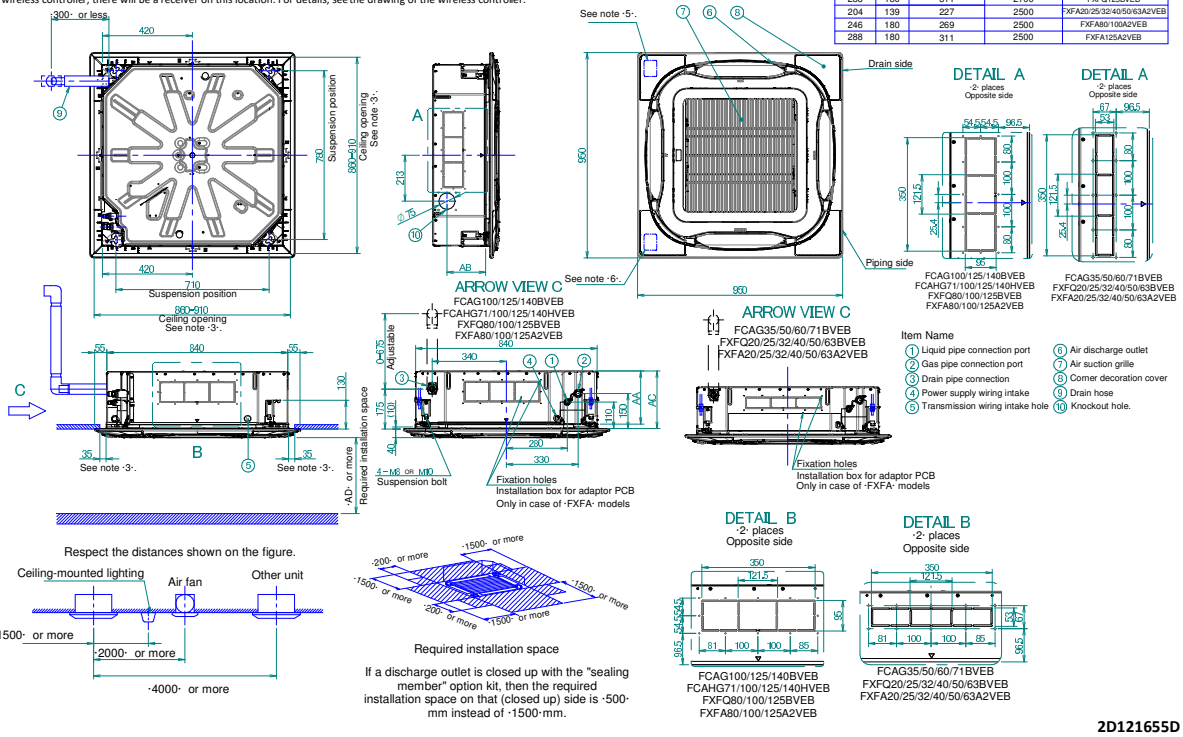
5 Dimensional drawings

5 - 1 Dimensional Drawings with Accessories

FCAG-B
FCAHG-H

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.

Cassette height		Minimal installation height	Required installation space	
AA	AB	AC	AD	Model
204	139	227	2700	FCAG35/50/60/71BVEB
246	180	269	2700	FCAG100/125/140BVEB
288	180	311	2700	FCAHG71/100/125/140HVEB
204	139	227	2700	FXFQ20/25/32/40/50/63BVEB
246	180	269	2700	FXFQ80/100BVEB
288	180	311	2700	FXFQ125BVEB
204	139	227	2500	FXFA20/25/32/40/50/63A2VEB
246	180	269	2500	FXFA80/100A2VEB
288	180	311	2500	FXFA125A2VEB

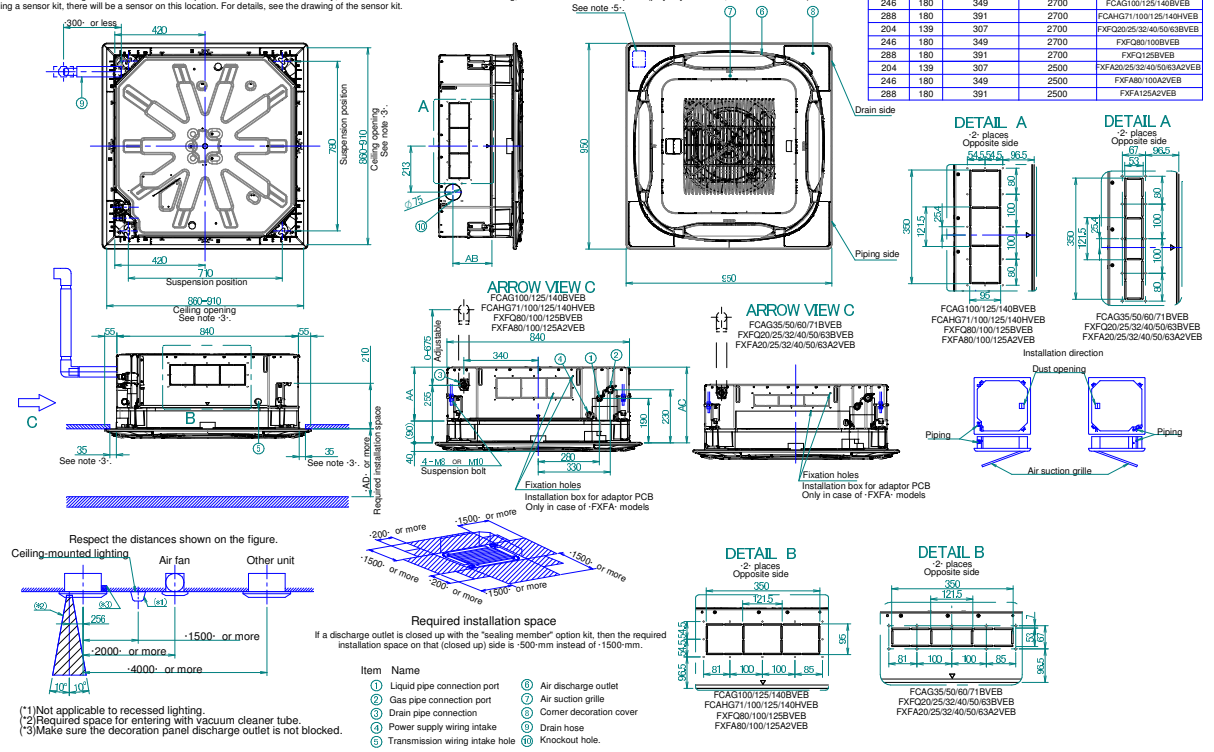


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FCAG-B
FCAHG-H

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.

Cassette height		Minimal installation height	Required installation space	
AA	AB	AC	AD	Model
204	139	307	2700	FCAG35/50/60/71BVEB
246	180	349	2700	FCAG100/125/140BVEB
288	180	391	2700	FCAHG71/100/125/140HVEB
204	139	307	2700	FXFQ20/25/32/40/50/63BVEB
246	180	349	2700	FXFQ80/100BVEB
288	180	391	2700	FXFQ125BVEB
204	139	307	2500	FXFA20/25/32/40/50/63A2VEB
246	180	349	2500	FXFA80/100A2VEB
288	180	391	2500	FXFA125A2VEB



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

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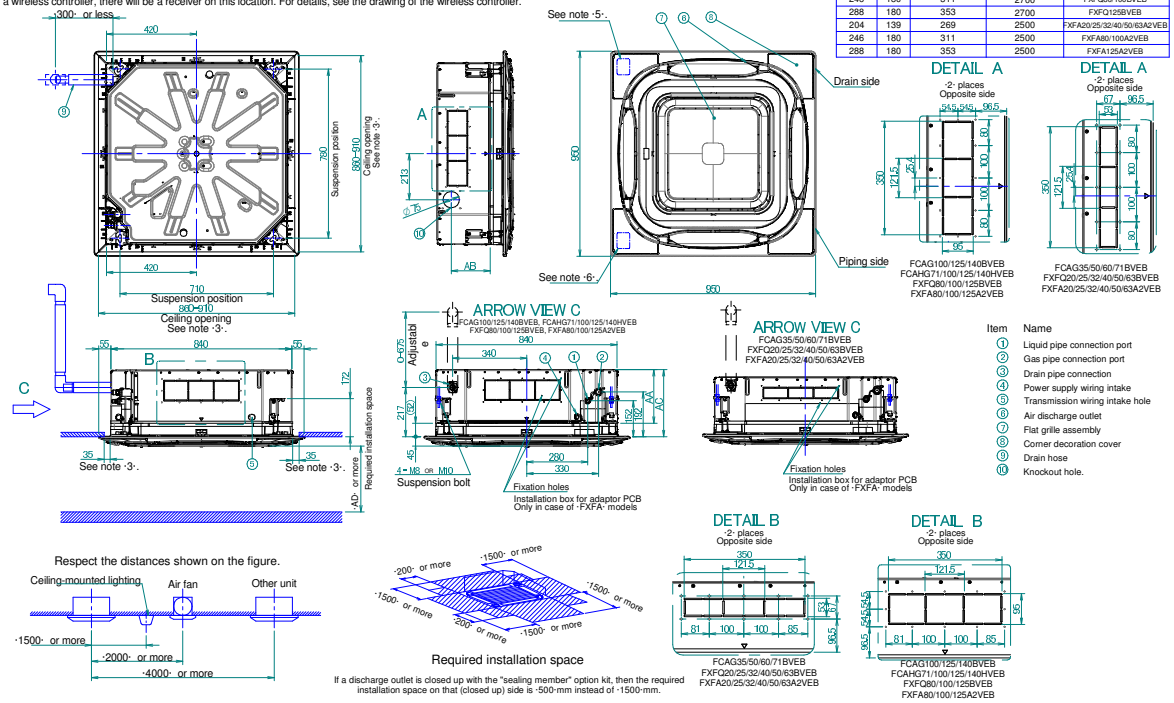
5 Dimensional drawings

5 - 1 Dimensional Drawings with Accessories

FCAG-B
FCAHG-H

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.
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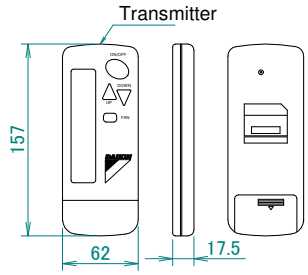
Cassette height		Minimal installation height	Required installation space	
AA	AB	AC	AD	Model
204	139	269	2700	FCAG35/50/60/71BVEB
246	180	311	2700	FCAG100/125/140BVEB
288	180	353	2700	FCAHG71/100/125/140HVEB
204	139	269	2700	FXFQ20/25/32/40/50/63BVEB
246	180	311	2700	FXFQ80/100BVEB
288	180	353	2700	FXFQ125BVEB
204	139	269	2500	FXFA20/25/32/40/50/63A2VEB
246	180	311	2500	FXFA80/100A2VEB
288	180	353	2500	FXFA125A2VEB



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FCAG-B

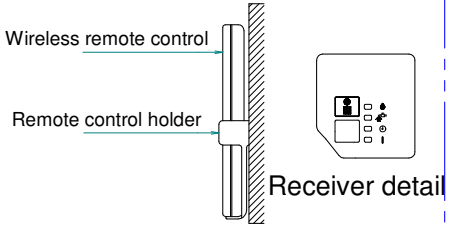
Remote control dimensions



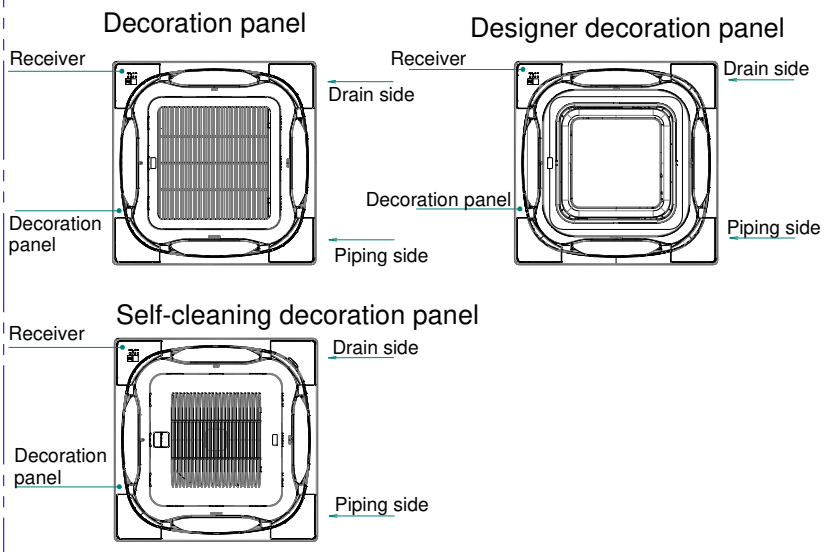
Remote control holder

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

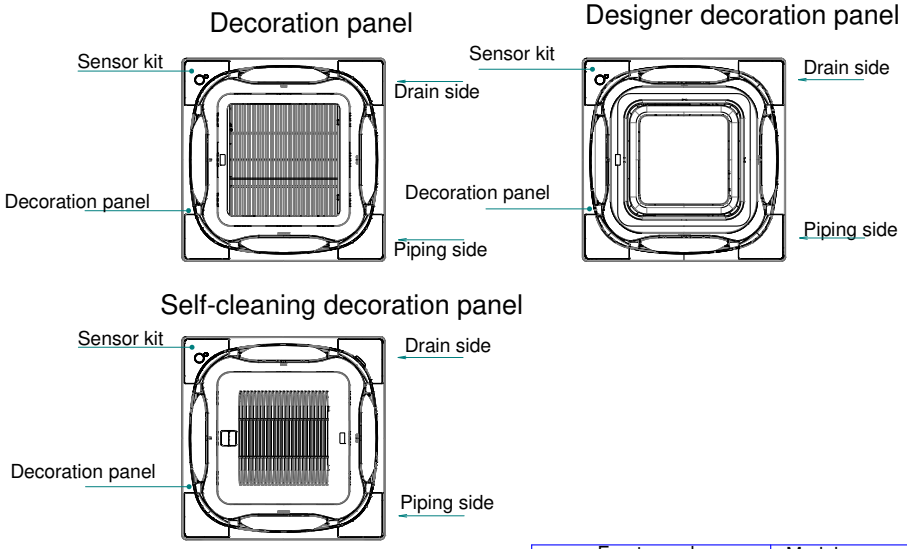
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5 Dimensional drawings

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

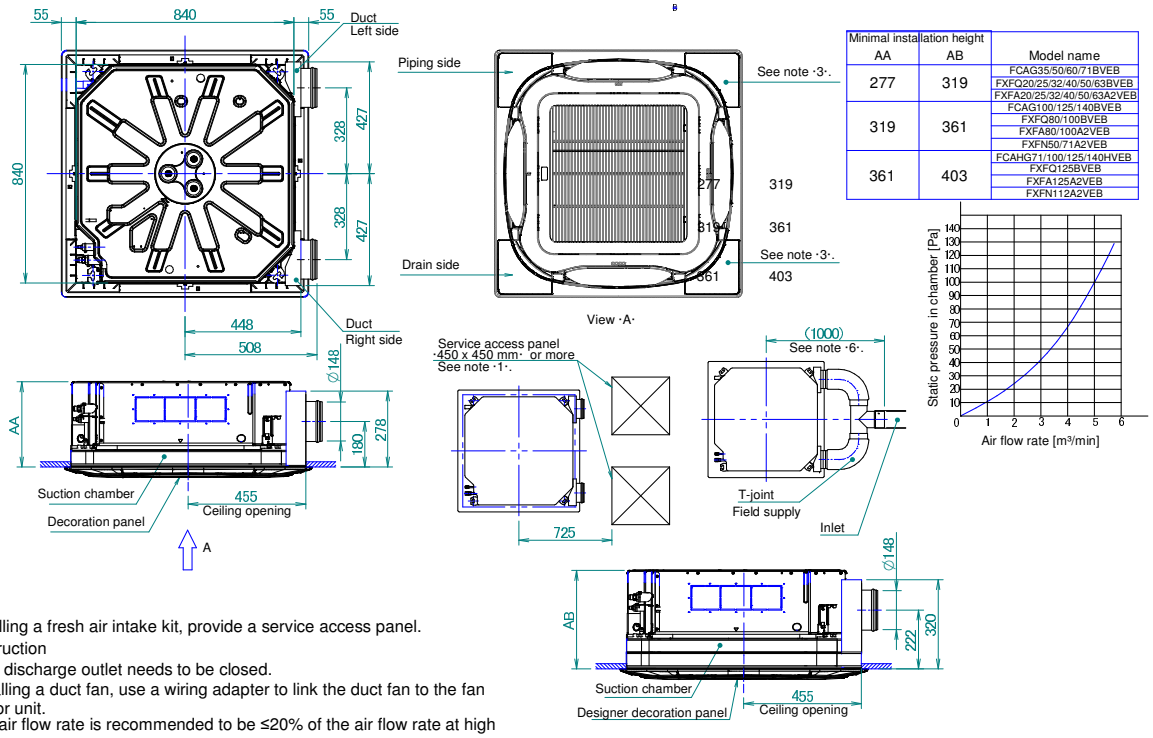
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5 Dimensional drawings

5 - 2 Dimensional Drawings with Fresh Air Intake

5

FCAG-B
FCAHG-H



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

Notes

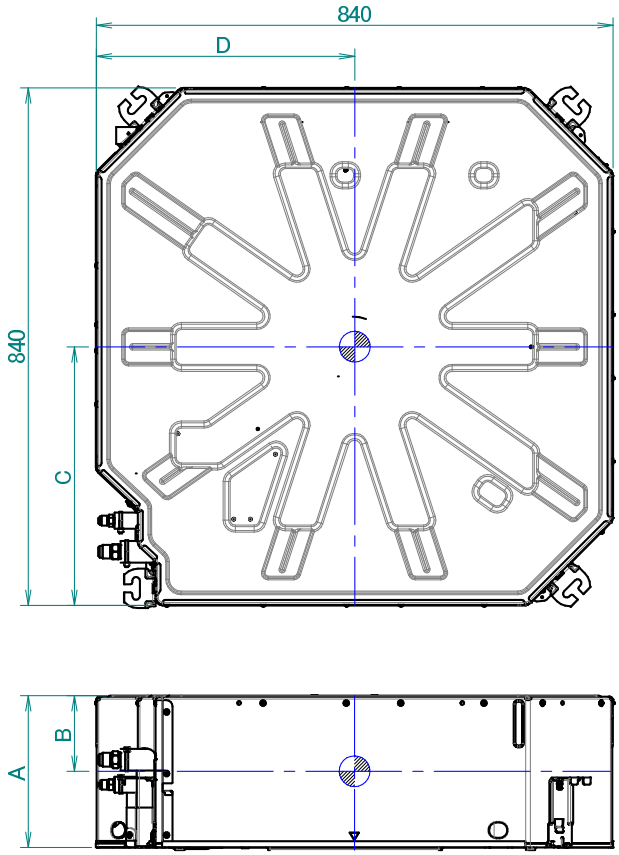
1. When installing a fresh air intake kit, provide a service access panel.
2. Field construction
3. This corner discharge outlet needs to be closed.
4. When installing a duct fan, use a wiring adapter to link the duct fan to the fan of the indoor unit.
5. The intake air flow rate is recommended to be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

3D121741C

6 Centre of gravity

6 - 1 Centre of Gravity

FCAG-B
FCAHG-H



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

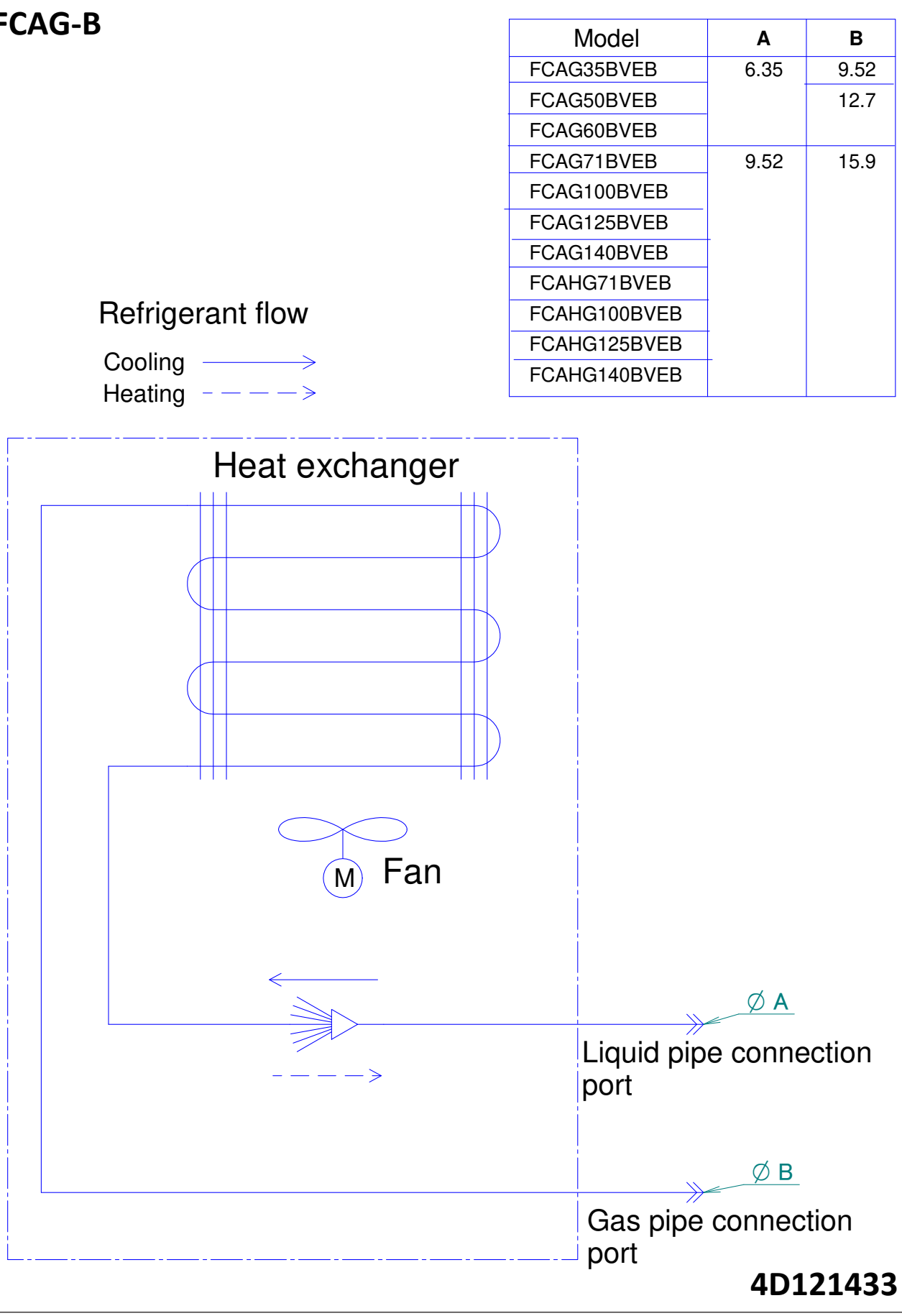
4D121659B

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		

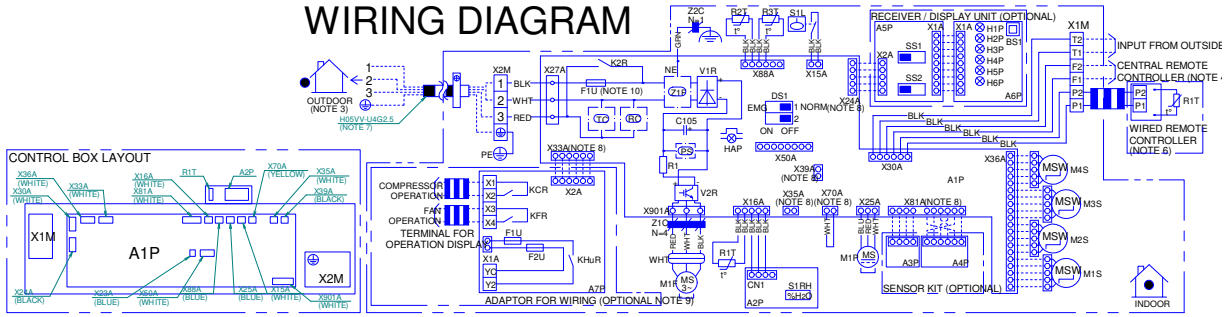


8 Wiring diagrams

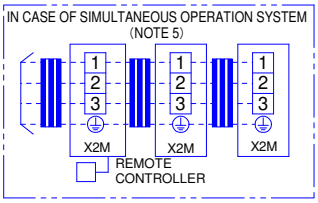
8 - 1 Wiring Diagrams - Single Phase

FCAG-B

WIRING DIAGRAM



NOTES:
1. : TERMINAL BLOCK, : CONNECTOR, : 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 (FILTER SIGN: RED)
C105	CAPACITOR		
DS1	DIP SWITCH ON PCB	H4P	PILOT LAMP (DEFROST: ORANGE)
F1U	FUSE (T, 3.15A 250V)		
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 (WIRELESS ADDRESS SET)
M1S-M4S	MOTOR (SWING BLADE)		
R1	RESISTOR	ADAPTOR FOR WIRING	
R1T	THERMISTOR (AIR)	A7P	ADAPTER PCB
R2T, R3T	THERMISTOR (COIL)	F1U	FUSE (5A, 250V)
S1L	FLOAT SWITCH (DRAIN PUMP)	F2U	FUSE (5A, 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
		CONNECTORS FOR OPTIONAL PARTS	
X2M	TERMINAL BLOCK (POWER SUPPLY)	X24A	CONNECTOR (WIRELESS REMOTE CONTROLLER)
Z1C, Z2C	FERRITE CORE	X33A	CONNECTOR (ADAPTOR FOR WIRING)
Z1F	NOISE FILTER		
PS	POWER SUPPLY CIRCUIT	X35A	CONNECTOR (AUTO CLEAN PANEL)
RC	SIGNAL RECEIVER CIRCUIT	X39A	
TC	SIGNAL TRANSMISSION CIRCUIT	X70A	
NE	NOISELESS EARTH	X50A	CONNECTOR (WI-FI ADAPTOR)
SENSOR KIT		X81A	CONNECTOR (SENSOR KIT)
A3P, A4P	SENSOR KIT PCB	WIRED REMOTE CONTROLLER	
WIRELESS REMOTE CONTROLLER (RECEIVER / DISPLAY UNIT)		R1T	THERMISTOR (AIR)
		HUMIDITY SENSOR	
A5P	RECEIVER PCB	A2P	SENSOR PCB
A6P	DISPLAY PCB	S1RH	HUMIDITY SENSOR
BS1	PUSH BUTTON (ON/OFF)	CN1	CONNECTOR
X1-2A	CONNECTOR		
H1P	PILOT LAMP (ON: RED)		

3D116812C

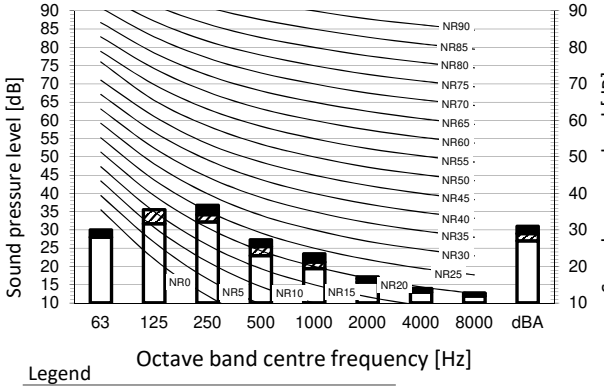
9 Sound data

9 - 1 Sound Pressure Spectrum

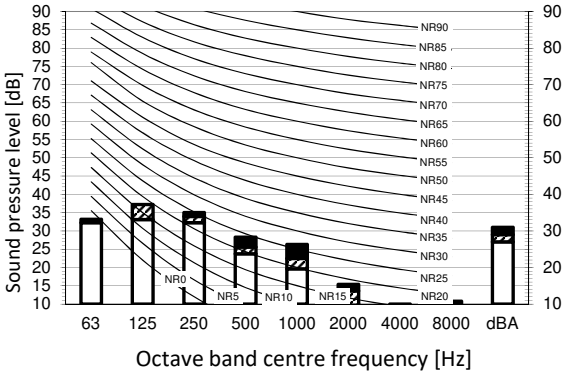
9

FCAG35B

Cooling mode



Heating mode

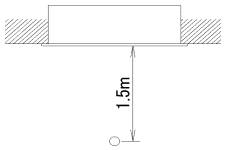


Legend

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

	Scale	Fan speed
A		
B		High
C		Medium
D		Low

Location of microphone



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

1 Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

2 Background noise already taken into account.

3 Operating noise varies depending on operation and ambient conditions.

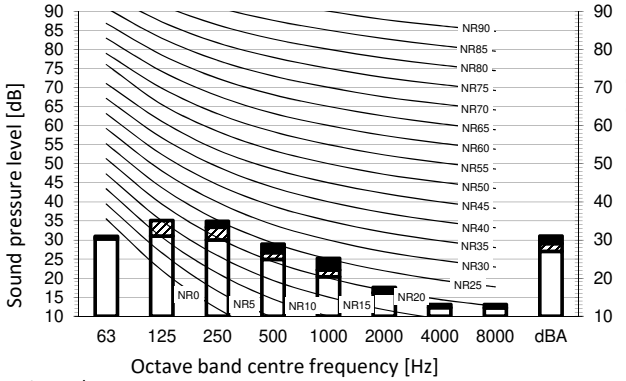
4 The operation noise measuring method is in accordance with JISC9612.

5 Measuring location: anechoic chamber

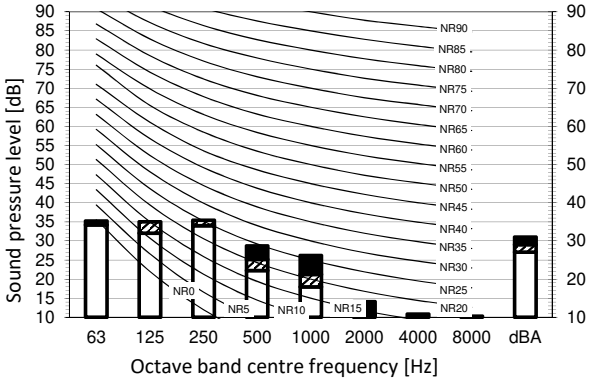
3D121660

FCAG50B

Cooling mode



Heating mode

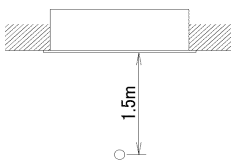


Legend

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

	Scale	Fan speed
A		
B		High
C		Medium
D		Low

Location of microphone



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

1 Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

2 Background noise already taken into account.

3 Operating noise varies depending on operation and ambient conditions.

4 The operation noise measuring method is in accordance with JISC9612.

5 Measuring location: anechoic chamber

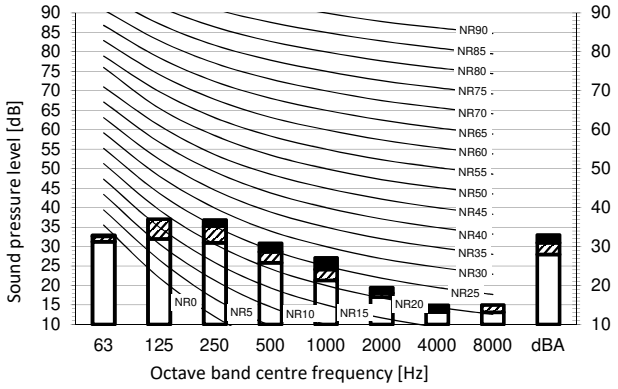
3D121661

9 Sound data

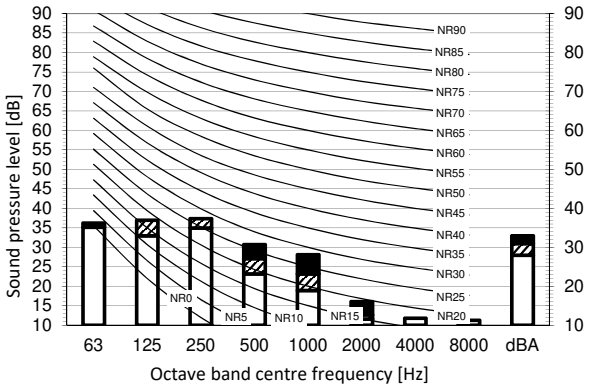
9 - 1 Sound Pressure Spectrum

FCAG60B

Cooling mode



Heating mode



Legend

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

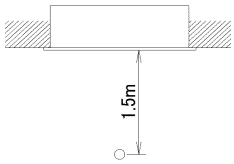
A Scale Fan speed

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

1 Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

2 Background noise already taken into account.

3 Operating noise varies depending on operation and ambient conditions.

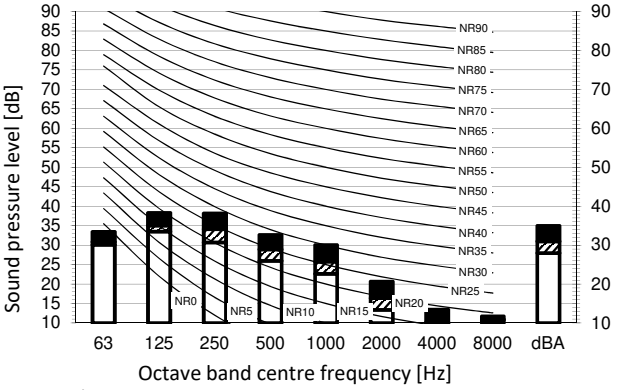
4 The operation noise measuring method is in accordance with JISC9612.

5 Measuring location: anechoic chamber

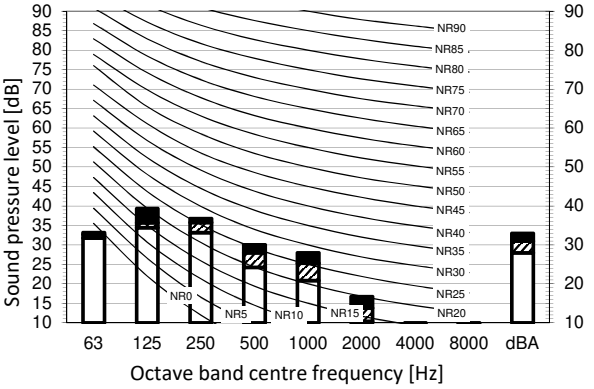
3D121662

FCAG71B

Cooling mode



Heating mode



Legend

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

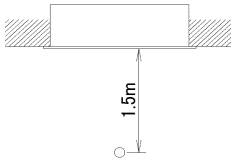
A Scale Fan speed

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

1 Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

2 Background noise already taken into account.

3 Operating noise varies depending on operation and ambient conditions.

4 The operation noise measuring method is in accordance with JISC9612.

5 Measuring location: anechoic chamber

3D121663

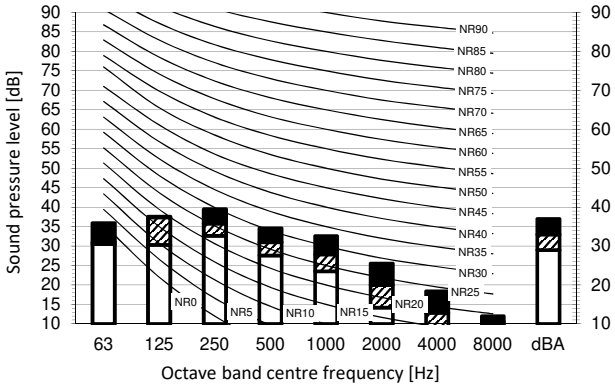
9 Sound data

9 - 1 Sound Pressure Spectrum

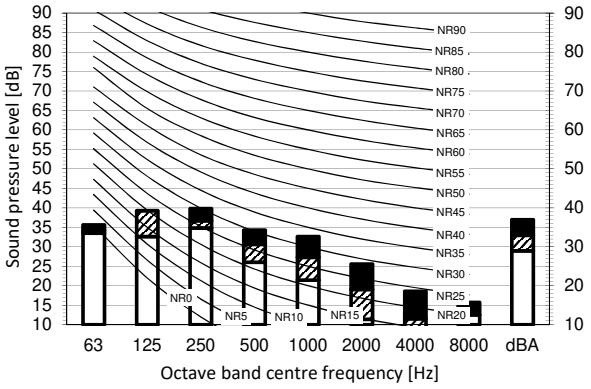
9

FCAG100B

Cooling mode



Heating mode



Legend

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

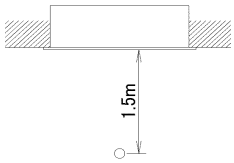
A Scale Fan speed

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

1 Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

2 Background noise already taken into account.

3 Operating noise varies depending on operation and ambient conditions.

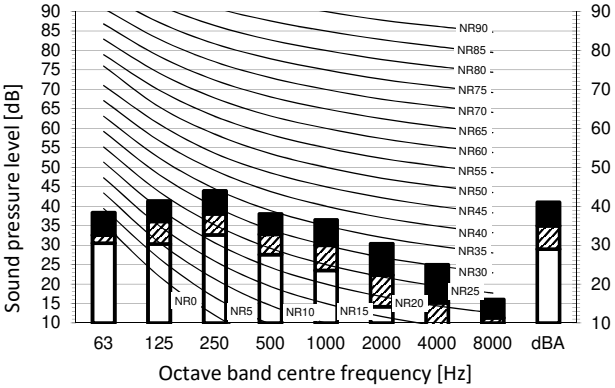
4 The operation noise measuring method is in accordance with JISC9612.

5 Measuring location: anechoic chamber

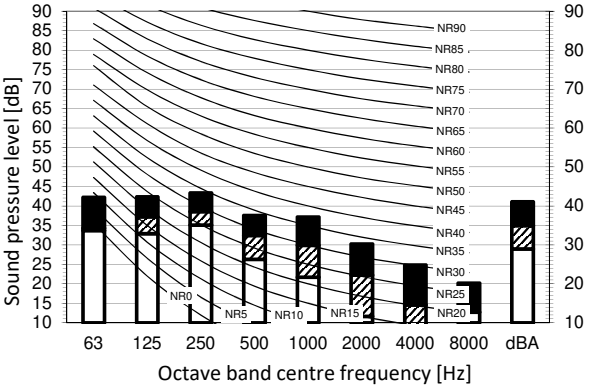
3D121664

FCAG125B

Cooling mode



Heating mode



Legend

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

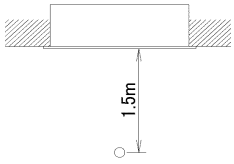
A Scale Fan speed

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

1 Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

2 Background noise already taken into account.

3 Operating noise varies depending on operation and ambient conditions.

4 The operation noise measuring method is in accordance with JISC9612.

5 Measuring location: anechoic chamber

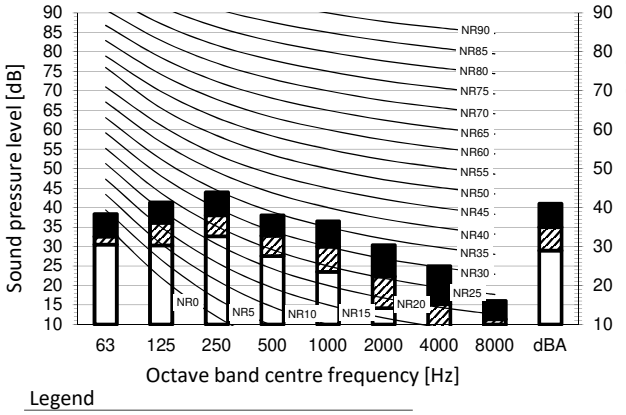
3D121665

9 Sound data

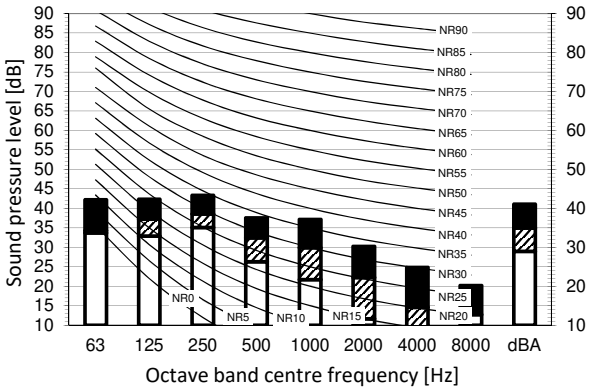
9 - 1 Sound Pressure Spectrum

FCAG140B

Cooling mode



Heating mode

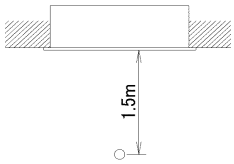


Legend

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

	Scale	Fan speed
A		
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

1 Operating conditions: power source 220-240 V/220 V 50/60 Hz; JIS standard

2 Background noise already taken into account.

3 Operating noise varies depending on operation and ambient conditions.

4 The operation noise measuring method is in accordance with JISC9612.

5 Measuring location: anechoic chamber

3D121666

10 Air flow patterns

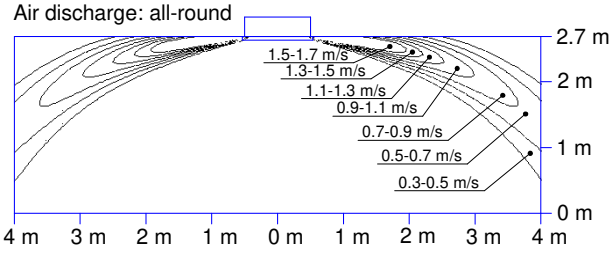
10 - 1 Air flow pattern - Cooling and Heating

FCAG35B

Air velocity distribution (cooling)

Air flow direction: horizontal

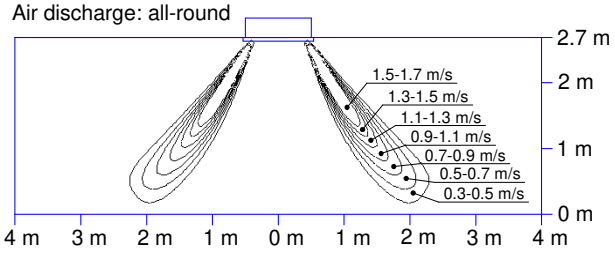
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

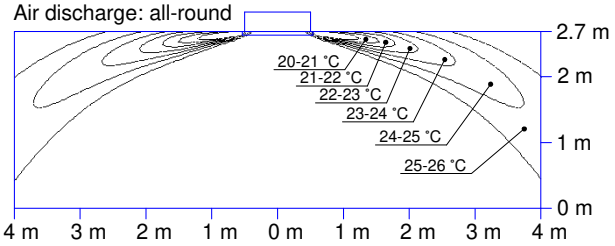
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

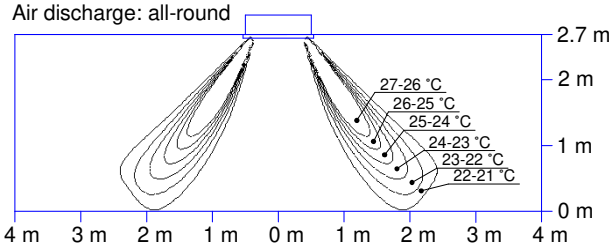
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



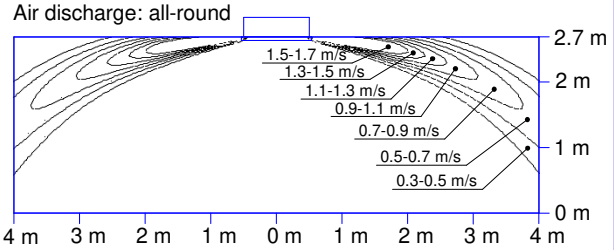
3D121618

FCAG50B

Air velocity distribution (cooling)

Air flow direction: horizontal

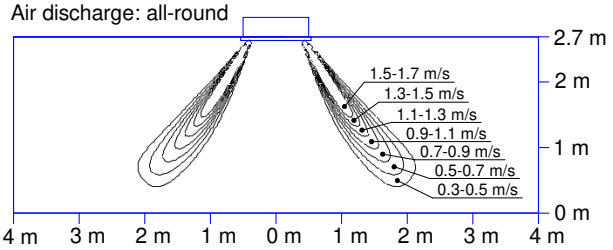
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

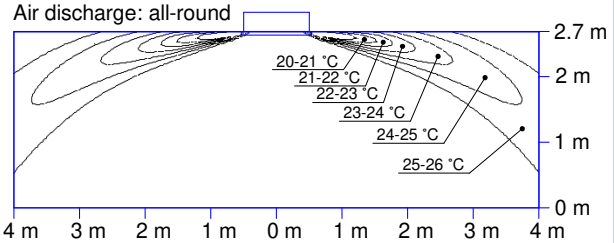
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

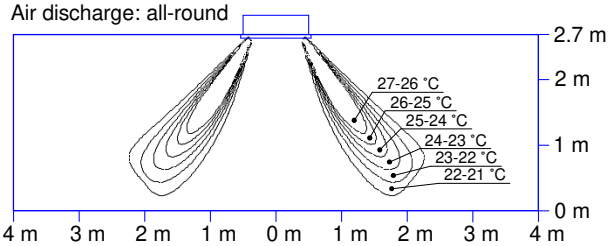
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



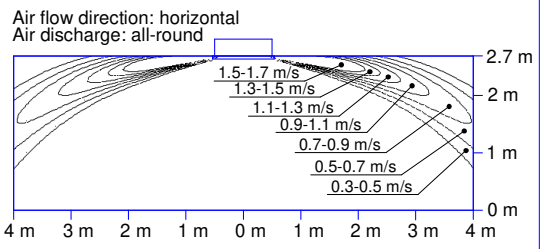
3D121619

10 Air flow patterns

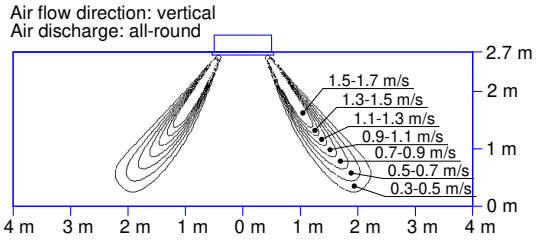
10 - 1 Air flow pattern - Cooling and Heating

FCAG60B

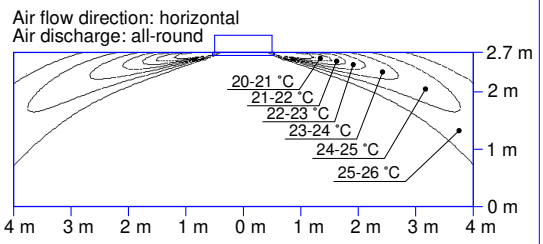
Air velocity distribution (cooling)



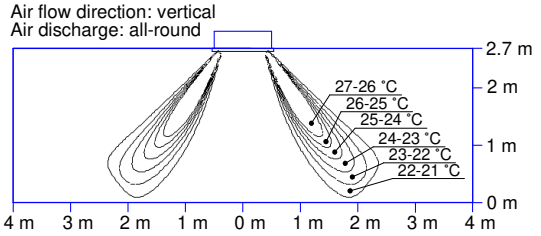
Air velocity distribution (heating)



Air temperature distribution (cooling)



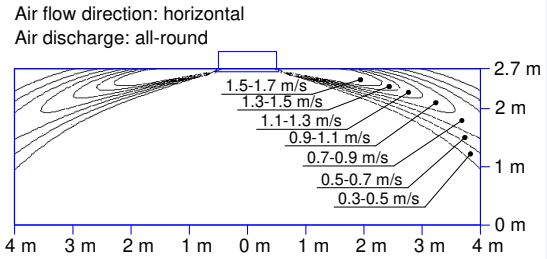
Air temperature distribution (heating)



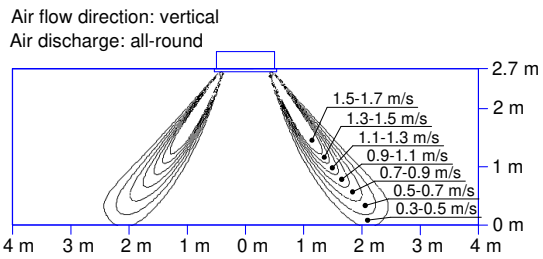
3D121620A

FCAG71B

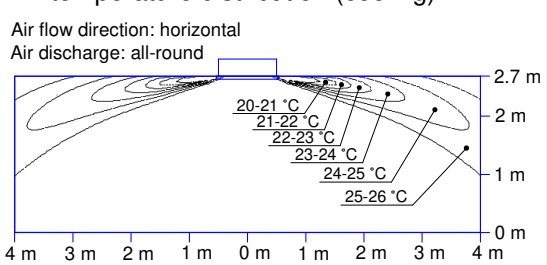
Air velocity distribution (cooling)



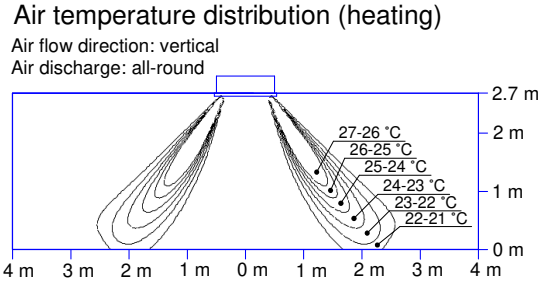
Air velocity distribution (heating)



Air temperature distribution (cooling)



Air temperature distribution (heating)



3D121621A

10 Air flow patterns

10 - 1 Air flow pattern - Cooling and Heating

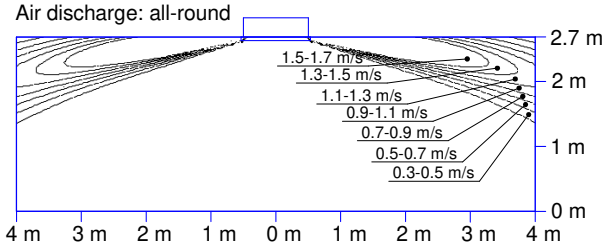
FCAG100B

10

Air velocity distribution (cooling)

Air flow direction: horizontal

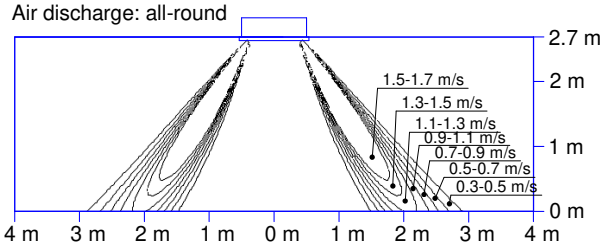
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

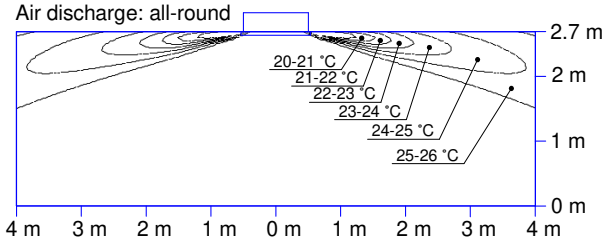
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

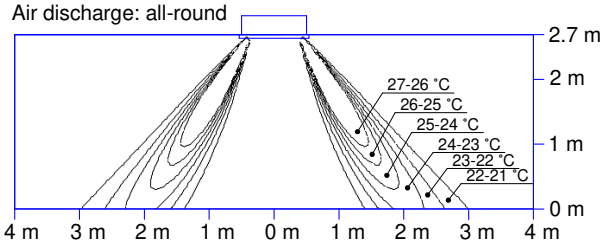
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



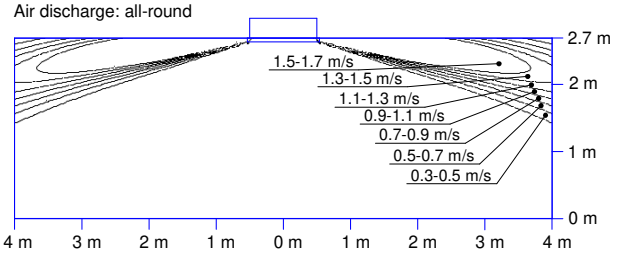
3D121622A

FCAG125-140B

Air velocity distribution (cooling)

Air flow direction: horizontal

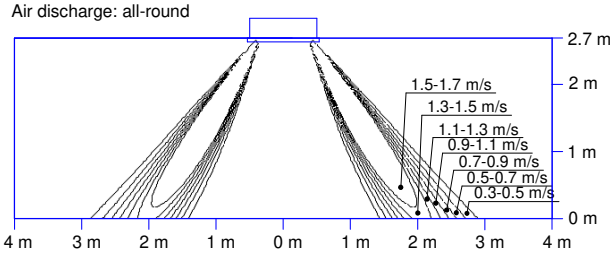
Air discharge: all-round



Air velocity distribution (heating)

Air flow direction: vertical

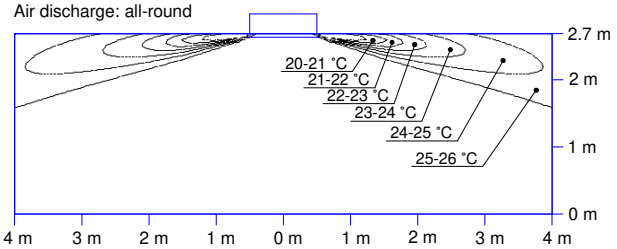
Air discharge: all-round



Air temperature distribution (cooling)

Air flow direction: horizontal

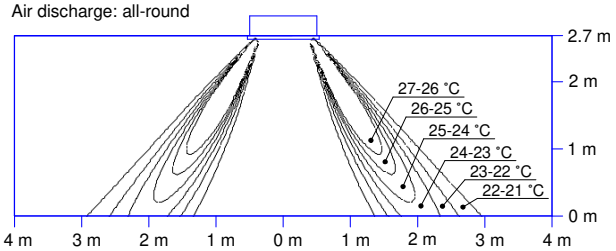
Air discharge: all-round



Air temperature distribution (heating)

Air flow direction: vertical

Air discharge: all-round



3D121623

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