

Air Conditioners

Technical Data







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FCQG-E

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Features 1

- Seasonal efficiency, optimized for all seasons.
- 360° air discharge ensures uniform air flow and temperature
- Air discharge from the corners avoids dead zones that may be subject to temperature differences
- Vertical auto swing moves the discharge flaps up and down for efficient air and temperature distribution throughout the room
- 23 different air flow patterns possible















2 steps









2 Specifications

2-1 Technical Specifications			FCQG71EVEB	FCQG100EVEB	FCQG125EVEB	FCQG140EVEB			
Casing	Material				Galvanised steel plate				
Dimensions	Unit Height		mm	288					
		Width	Width		840				
		Depth	Depth		840				
Weight	Unit	-		kg		2	5		
Heat exchanger	Rows	Quantity				,	1		
	Fin pitch	•		mm		1.:	25		
	Face area			m²		0.5	550		
	Stages	Quantity			18				
	Fin Type			Cross fin coil (multi louver fins and N-hix tubes)					
Heat exchanger 2	Rows	Quantity			2				
	Fin pitch mm			mm	1.2				
	Stages	s Quantity		18					
Fan	Туре			Turbo fan					
	Air flow rate Cooling	Cooling	High	m³/min	21.5	32	33		
			Low	m³/min	12.5	19	21		
	Heating	High	m³/min	21.5	32	33			
		Low	m³/min	12.5	19	21			
Fan motor	Model	•				QTS48	8C15M		
Sound power level	Cooling	Nom.		dBA	53		61		
Sound pressure level	Cooling	Nom.		dBA	36	44	45		
	Heating	Nom.		dBA	29	33	35	37	
Piping connections	Liquid	Туре			Flare connection				
		OD			9.52				
	Gas	Туре			Flare connection				
		OD		mm	15.9				
	Drain	Drain			VP25 (I.D. 25/O.D. 32)				

2-2 Electrical Specifications		FCQG71EVEB	FCQG100EVEB	FCQG125EVEB	FCQG140EVEB	
Power supply	Phase	1				
	Frequency Hz		50			
	Voltage	V	220-240			

3 Safety device settings

3 - 1 Safety Device Settings

FCQG-EVEB

	Safety devices		71	100	125	140
	Fuse		-	-	-	-
FOOG EVED	Fan motor thermal fuse	°C	-	-	-	-
FCQG~EVEB	Fan motor thermal protector	°C	-	-	-	-
	Drain pump thermal fuse	°C	-	-	-	-

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4 Options

4 - 1 Options

FCQG-EVEB

Options

Item	Remark	FCQG~EVEB				
Item	remark	71	100	125	140	
Decoration panel	BYCP125B-W1					
Sealing member of air discharge	KDBHQ55B140 (AS3804758)					
Long-life filter	KAFP551K160 (AS3603283)					
Fresh air intake kit	Without T-shape duct *1	KDDQ55D140 (AS3804761)				

Control systems

Item	Remark		FCQG~EVEB				
пспі	INGINAIN	71	100	125	140		
Remote control	Wired	BRC1E51A7/BR	BRC1E51A7/BRC1D528				
Wiring adapter for electrical app	endices *2	KRP1BA57					
Wiring adapter for electrical app	endices *2	KRP4AA53					
Wiring adapter (hour meter) *2		EKRP1C11	EKRP1C11				
Installation box for adapter PCB	KRP1H98	KRP1H98					
Remote sensor		KRCS01-4B	KRCS01-4B				
Central remote control		DCS302CA51	DCS302CA51				
Unified on/off controller		DCS301BA51	DCS301BA51				
Schedule timer		DST301BA51	DST301BA51				
Electrical box with earth termina	KJB212AA	KJB212AA					
Electrical box with earth termina	KJB311AA	KJB311AA					
Remote on/off	EKRORO2	EKRORO2					

Two of four corner air outlets are closed.
Fresh air intake volume is 10% or less of air flow rate.

3D069657

^{*2} Installation box for adapter PCB (KRP1H98) is necessary.

5 Dimensional drawings

5 - 1 Dimensional Drawings

Connection wiring /

Corner decoration cover

Drain hose (accessory)

Suction grille

6 Air-outlet

8

Remote control wiring connection

FCQG-EVEB when uniting and closing a corner part (both right and left of the bloww-off grill to close), it is 200mm or more. Decoration panel 4 1 BYCP125B-W1 Fresh white 6, 5Y 9, 5/0, 5 3D069631 Name Description Liquid pipe connection Ø 9.5 (Flare connection) **NOTES** Ø 15.9 (Flare connection) Gas pipe connection Sticking location for manufacture's label Manufacture's label for indoor unit: Suction grill inner side's electric components box's lid surface VP25 (OD Ø 32) 3 Drain pipe connection Manufacture's label for decoration panel: Decoration panel's corner decoration cover inner surface Power-source wiring and a unit wiring connection

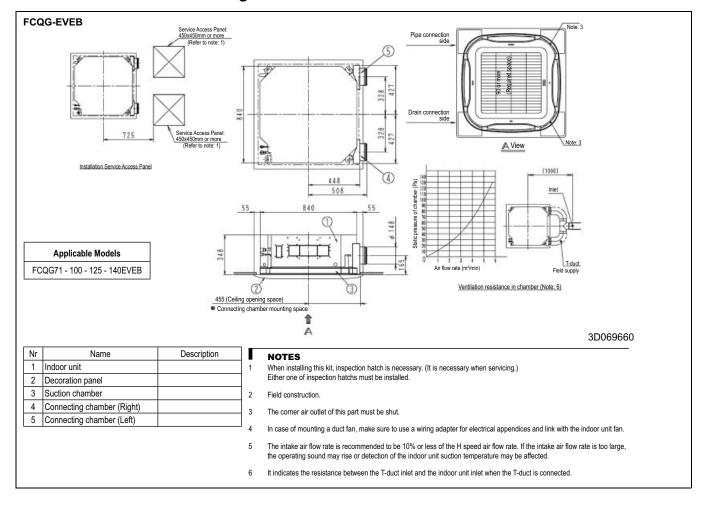
- When the temperature and humidity in the ceiling exceeds 30°C and RH 80% or the fresh air is inducted into the ceiling or the unit continues 24 hour operation, an additional insulation (thickness 10mm or more of glasswool or polyethylene form) is required.
- 3 Though the installation is acceptable up to maximum of 910mm square ceiling opening, keep the clearance of 35mm or less between the indoor unit and the ceiling opening so that the panel overlap allowance can be ensured.
- 4 Please do not place the thing been damp and troubled under an indoor unit. When the case where humidity is 80% or more, and the drain outlet are choked up and the air filters are dirty, dew may fall.

Local connection OD Ø 32 (outlet)

(Unit connection OD Ø 26)

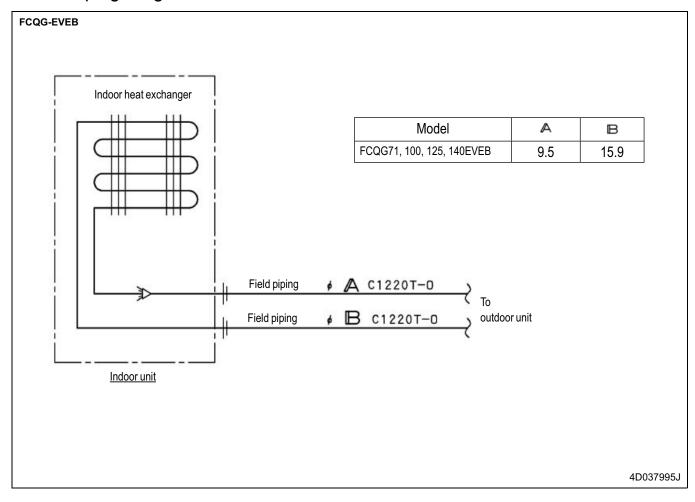
5 Dimensional drawings

5 - 2 Dimensional Drawings with Fresh Air Intake



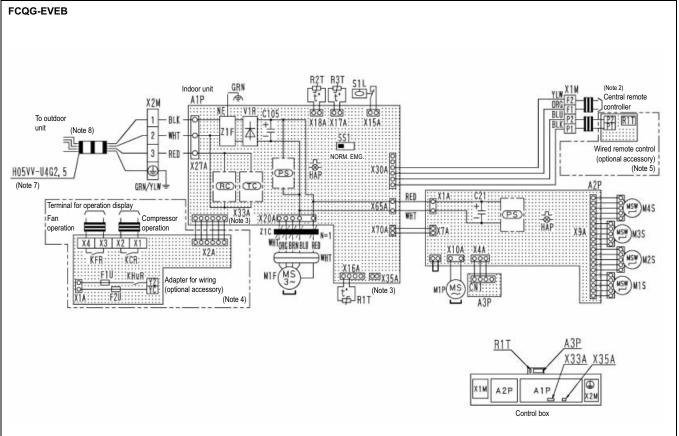
6 Piping diagrams

6 - 1 Piping Diagrams



7 Wiring diagrams

Wiring Diagrams - Single Phase



	Indoor unit	X2M	Terminal strip	
A1P	Printed circuit board	Z1C	Ferrite core (noise filter)	
A2P	Printed circuit board	Z1F	Noise filter	
A3P	Printed circuit board (Humidity sensor unit)	PS	Power supply circuit	
C21	Capacitor	RC	Signal receiver circuit	
C105	Capacitor	TC	Signal transmission circuit	
HAP	Light emitting diode (service monitor green)		Wired remote control	
M1F	Motor (indoor fan)	R1T	Thermistor (air)	
M1P	Motor (drain pump)		Adapter for wiring	
M1S		F1U	F. (© 54.050)0	
~ M4S	Motor (swing flap)	F2U	Fuse (B), 5A, 250V)	
R1T	Thermistor (air)	KCR	Magnetic relay	
R2T - R3T	Thermistor (coil)	KFR	Magnetic relay	
S1L	Float switch	KHuR	Magnetic relay (Hu)	
SS1	Selector switch (emergency)		Connector for optional parts	
V1R	Diode bridge	X33A	Connector (adapter for wiring)	
X1M	Terminal strip	X35A	Connector (group control adapter)	

RED: red WHT: white BLK: black YLW: yellow GRN: green ORG: orange BRN: brown PNK: pink GRY: gray BLU: blue

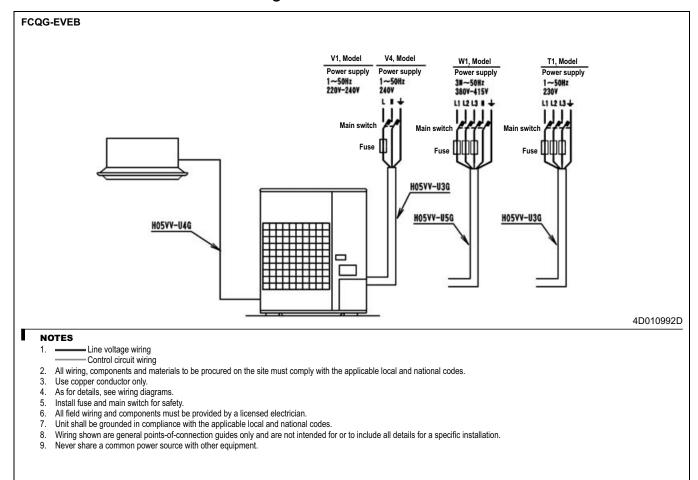
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NOTES

- 1. ☐ : Terminal ⊙, **b** : connector = : Field wiring
- 2. In case using central remote control, connect it to the unit in accordance with the attached installation manual
- 3. X33A, X35A are connected when the optional accessories are being used.
- 4. Connect power of adapter for wiring to terminal block (X2M) of indoor unit directly.
- 5. In case of main/sub overchange, see the installation manual attached to remote control.
 6. Symbols shows as follows: RED: red BLK: black WHT: white YLW: yellow GRN: green ORG: orange BRN: brown PNK: pink GRY: gray BLU: blue
- 7. Shown only in case of protected pipes. Use HO7RN-F in case of no protection.
- 8. Model outdoor unit shown in this diagram shows the outline of product. For the detail, see wiring diagram attached to outdoor unit.

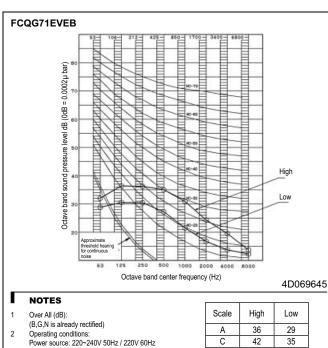
8 External connection diagrams

8 - 1 External Connection Diagrams



9 Sound data

Sound Pressure Spectrum 9 - 1

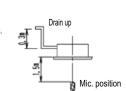


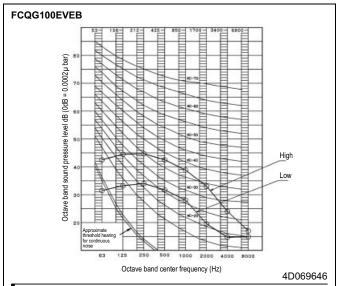
Cooling: Return air temperature: 27°C DB, 19°C WB Outdoor temperature: 35°C DB, 24°C WB

Heating: Return air temperature: 20°C DB, 15°C WB
Outdoor temperature: 7°C DB, 6°C WB 4 direction discharge Measuring place: Anechoic chamber

Operation noise differs with operation and ambient conditions.

Location of microphone.





NOTES

- Over All (dB): (B,G,N is already rectified)

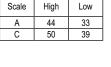
Operating conditions: Power source: 220~240V 50Hz / 220V 60Hz Cooling: Return air temperature: 27°C DB, 19°C WB Outdoor temperature: 35°C DB, 24°C WB

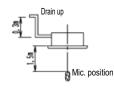
Heating: Return air temperature: 20°C DB, 15°C WB Outdoor temperature: 7°C DB, 6°C WB

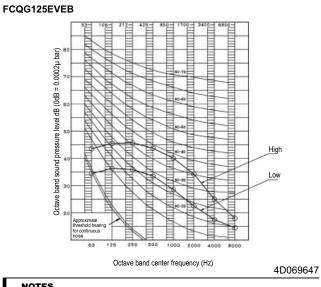
Measuring place: Anechoic chamber

Operation noise differs with operation and ambient conditions.

Location of microphone







NOTES

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- (B,G,N is already rectified) Operating conditions:
- Operating conditions:
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 Cooling: Return air temperature: 27°C DB, 19°C WB

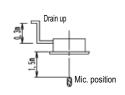
 Outdoor temperature: 35°C DB, 24°C WB

 Heating: Return air temperature: 20°C DB, 15°C WB

Outdoor temperature: 7°C DB, 6°C WB 4 direction discharge

- Measuring place: Anechoic chamber
 Operation noise differs with operation and ambient conditions.

Location of microphone.



High

45

51

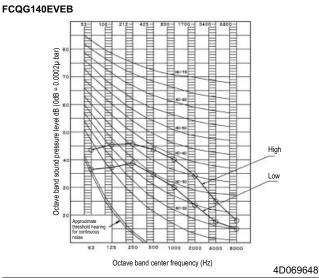
Iow

35

41

Scale

С



NOTES

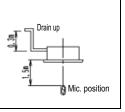
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- Measuring place: Anechoic chamber
 Operation noise differs with operation and ambient conditions.
- Location of microphone



High

51

Low

37

43

Scale



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.







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