



Air Conditioning Technical Data

Floor standing unit



EEEN15-100

FVQ-C

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FVQ-C

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1 Features

For commercial spaces with high ceilings

- Ideal solution for commercial spaces with no or narrow false ceilings
- Can easily be installed in both new and refurbishment projects
- Very efficient for use in rooms with high ceilings
- Decrease of temperature variation by automatic fan speed selection or freely selectable 3-step fan speed.
- Improved comfort as a result of better airflow distribution from the vertical out blow which allows manual adjustment of air outlet blades at the top of the unit. Selectable horizontal out blow to better suit the layout of the room (via BRC1E52).
- Reduced energy consumption thanks to specially developed DC fan motor
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.



Home leave operation



Fan only



Auto cooling-heating changeover



Vertical auto swing



Fan speed steps



Dry programme



Air filter



Weekly timer



Wired remote control



Centralised control



Auto-restart



Self diagnosis

2 Specifications

2-1 Technical Specifications				FVQ71C	FVQ100C	FVQ125C	FVQ140C	
Power input	Cooling	Nom.	kW	0.117	0.238		0.276	
	Heating	Nom.	kW	0.117	0.238		0.276	
Casing	Colour			Fresh White				
Dimensions	Unit	Height/Width/Depth	mm	1,850/600/270	1,850/600/350	1,850/600/350	1,850/600/350	
	Packed unit	Height/Width/Depth	mm	1,996/732/389	1,996/732/469			
Weight	Unit			kg	47			
	Packed unit			kg	70			
Heat exchanger	Inside length		mm	476				
	Rows	Quantity		2	3			
	Fin pitch		mm	1.75				
	Passes	Quantity		6	10	11		
	Face area		m ²	0.40	0.22			
	Stages	Quantity		40	22			
	Empty tubeplate hole	Quantity		0	14	4		
	Fin	Type		Cross fin coil (multi louver fins and Hi-XSS tubes)				
Heat exchanger 2	Rows	Quantity		-	3			
	Fin pitch		mm	-	1.75			
	Face area		m ²	-	0.22			
	Stages	Quantity		-	22			
Air filter	Type			Resin net with mold resistance				
Fan	Type			Sirocco fan				
	Quantity			1				
	Air flow rate	Cooling	High	m ³ /min	18	28		30
			Nom.	m ³ /min	16	25	26	28
			Low	m ³ /min	14	22	24	26
	Heating	High	High	m ³ /min	18	28		30
			Nom.	m ³ /min	16	25	26	28
Low			m ³ /min	14	22	24	26	
Fan motor	Model			QS33A1AM				
	Speed	Steps		3				
	Output	High	W	64	152			
Sound power level	Cooling		dBA	55	62	63	65	
	Heating		dBA	55	62	63	65	
Sound pressure level	Cooling	High/Nom./Low	dBA	43/41/38	50/47/44	51/48/46	53/51/48	
	Heating	High/Nom./Low	dBA	43/41/38	50/47/44	51/48/46	53/51/48	
Control systems	Wired remote control			BRC1D52 / BRC1E52A/B				
Refrigerant	Type			R-410A				
Piping connections	Liquid	Type/OD	mm	Flare connection/9.52				
	Gas	Type/OD	mm	Flare connection/15.9				
	Drain			I.D. 20/O.D. 26				
	Heat insulation			Foamed polystyrene / Foamed polyethylene				

Standard Accessories : Clamps;

Standard Accessories : Dew proof material;

Standard Accessories : Hole protection rubber;

Standard Accessories : Remote control wiring;

Standard Accessories : Bush;

Standard Accessories : Bracket for installation;

Standard Accessories : Installation manual;

Standard Accessories : Installation pattern;

Standard Accessories : Insulation for fitting;

Standard Accessories : Cover;

Standard Accessories : Operation manual;

Standard Accessories : Screws;

2 Specifications

2-2 Electrical Specifications			FVQ71C	FVQ100C	FVQ125C	FVQ140C
Power supply	Phase		1~			
	Frequency	Hz	50/60			
	Voltage	V	220-240/220			

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3 Safety device settings

3 - 1 Safety Device Settings

FVQ-C

Safety devices		71	100	125	140
FVQ-C	Fuse	—	—	—	—
	Fan motor thermal fuse (°C)	—	—	—	—
	Fan motor thermal protector (°C)	—	—	—	—

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4 Options

4 - 1 Options

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FVQ-C

Name of option		Model name	FVQ71 • 100 • 125 • 140CVEB
Replacement long-life filter			KAFJ95L160
Central remote control			DCS302CA51
Unified ON/OFF controller			DCS301BA51
Schedule timer			DST301BA51
I-touch controller			DCS601C51
Remote control	Wired		BRC1E52A7
			BRC1E51A7
			BRC1D528
Simplified remote control (with operation mode selector button) *2			BRC2E52C7
Simplified remote control (without operation mode selector button) *2			BRC3E52C7
Adapter for wiring *1			KRP1BA57
Wiring adapter for electrical appendices (2) *1			KRP4AA52
Installation box for adapter PCB			KRP4AA95
Digital input adapter *1, *3			BRP7A52

NOTES

*1 Installation box for adapter PCB (KRP4AA95) is necessary.

*2 Included languages are:

Language pack 1: English, German, French, Dutch, Spanish, Italian and Portuguese.

With PC cable EKPCAB3 in combination with the updaters 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

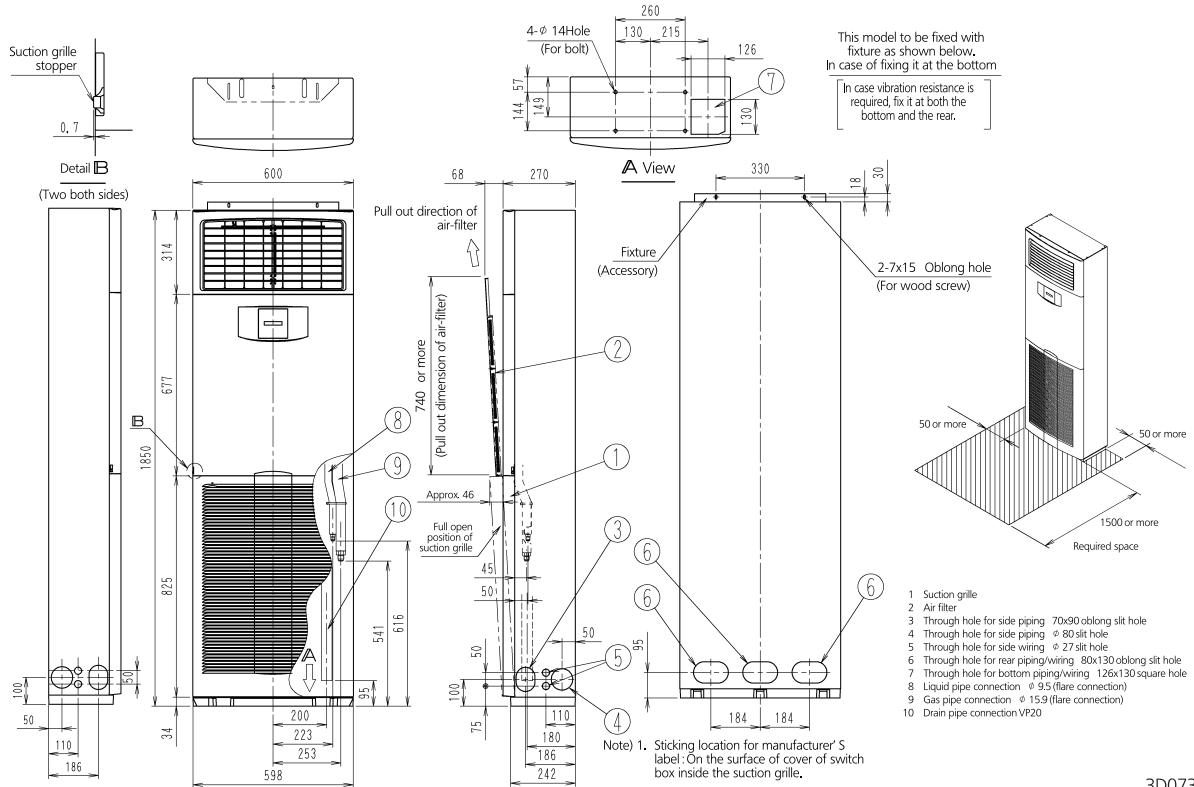
*3 Only possible in combination with simplified remote control BRC2/3E52C7.

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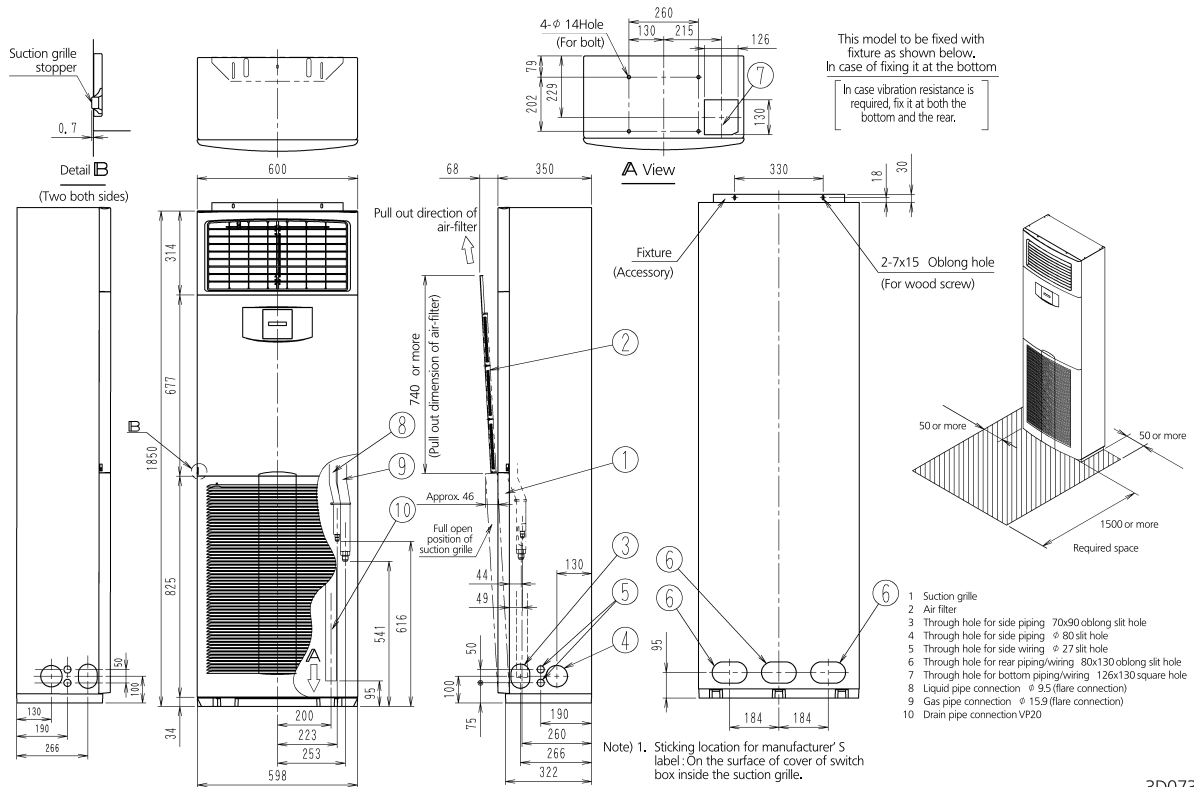
5 Dimensional drawings

5 - 1 Dimensional Drawings

FVQ71C



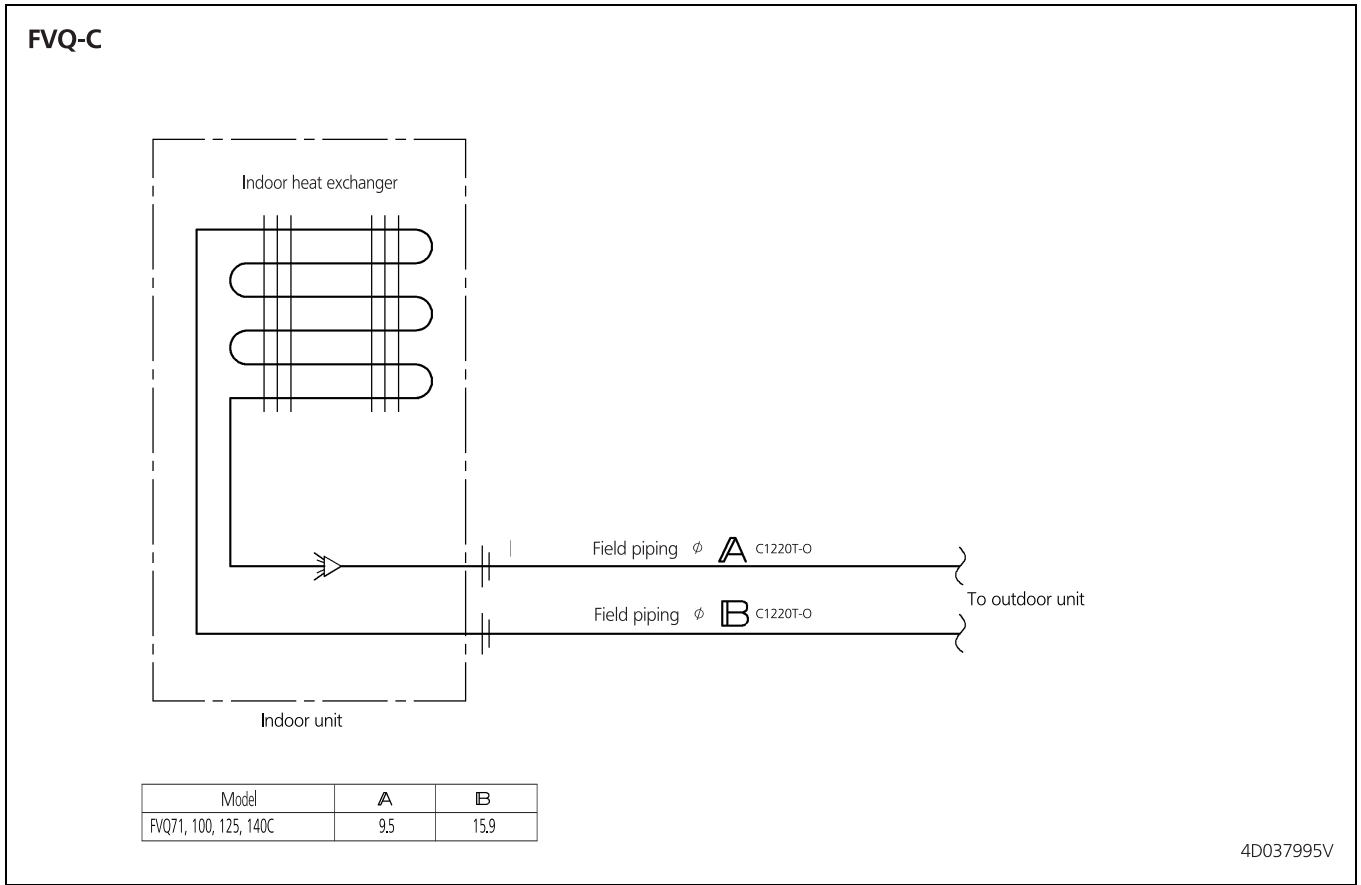
FVQ100-125-140C



6 Piping diagrams

6 - 1 Piping Diagrams

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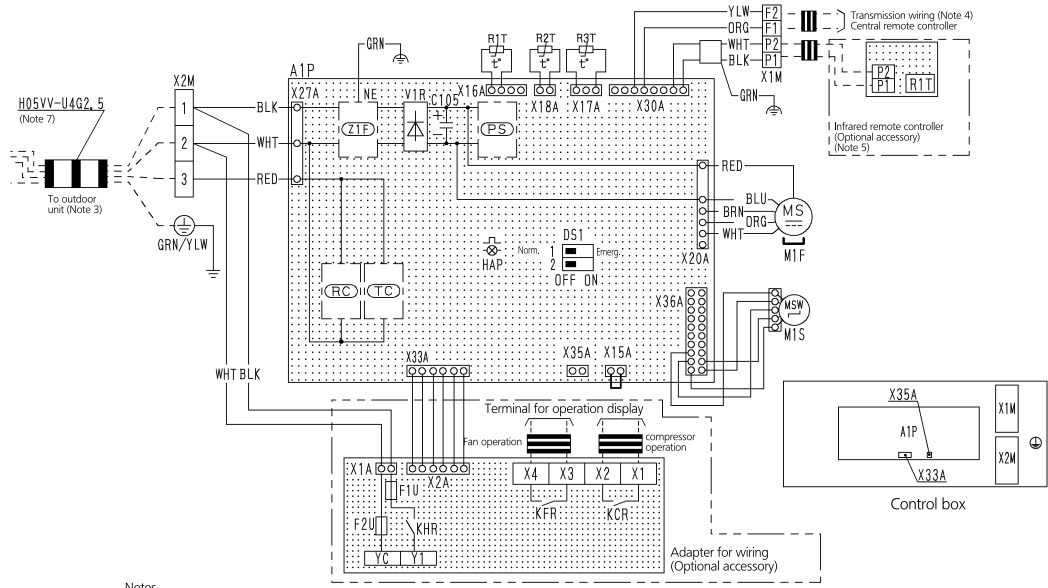


7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

FVQ-CVEB

Indoor unit	
A1P	Printed circuit board
CT05	Capacitor
HAP	Flashing lamp (service monitor-green)
M1F	Motor (indoor fan)
M1S	Motor (swing flap)
R1T	Thermistor (air)
R2T-R3T	Thermistor (coil)
DS1	Dipswitch on PCB (emergency)
Y1R	Diode bridge
X1M	Terminal block (Remote controller)
X2M	Terminal block (Transmission wiring)
Z1F	Noise filter
PS	Switching power supply
RC	Signal receiver circuit
TC	Signal transmission circuit
Wired remote controller	
R1T	Thermistor (air)
Connector for optional parts	
X33A	Connector (Adapter for wiring)
X35A	Connector (Power supply for adapter)
Adapter for wiring	
F1U	Fuse (C, 5A, 250V)
F2U	Fuse (C, 5A, 250V)
KCR	Magnetic relay
KFR	Magnetic relay
KHR	Magnetic relay



Notes

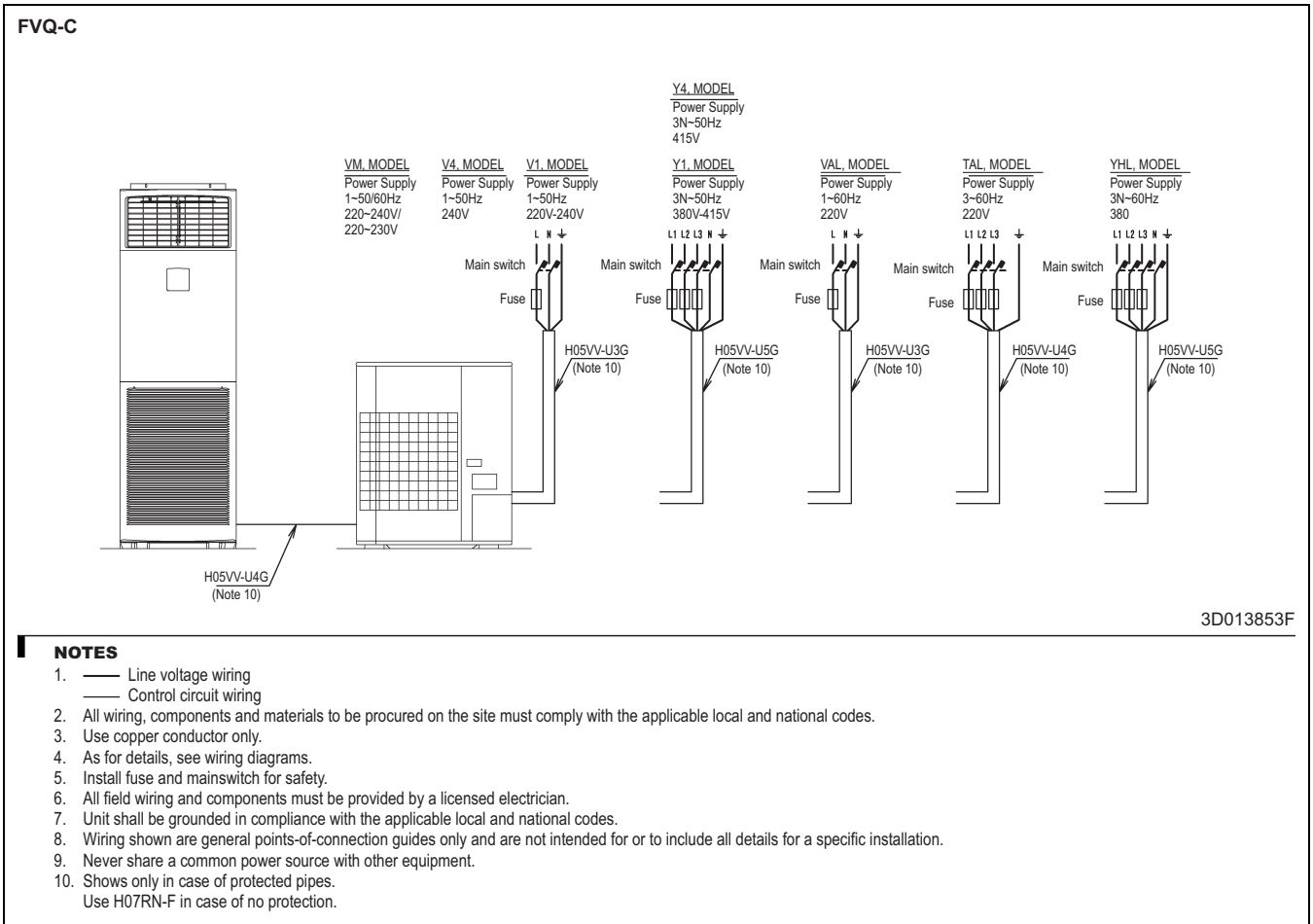
- Terminal block, Connector, Short circuit connector
- Field wiring
- For the detail, see wiring diagram attached to outdoor unit.
- In case using central remote controller, connect it to the unit in accordance with the attached installation manual.
- In case of main/sub changeover, see the installation manual attached to remote controller.
- Symbols shows as follows: BLK:Black RED:Red BLU:Blue WHT:White PNK:Pink YLW:Yellow GRN:Gray GRN:Green ORG:Orange BRN:Brown
- Shows only in case of protected pipes, use HO7RN-F in case of no protection.

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8 External connection diagrams

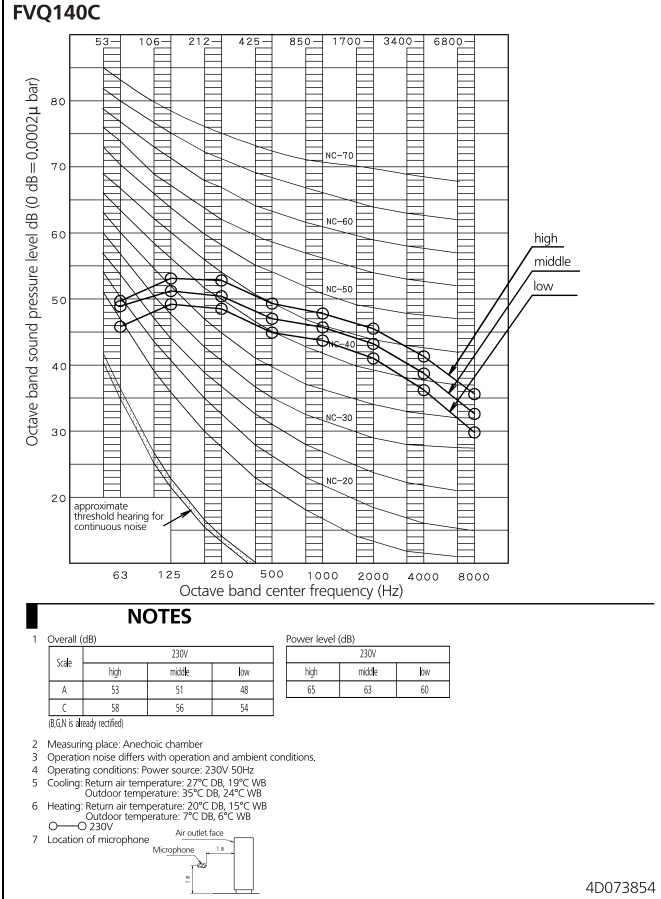
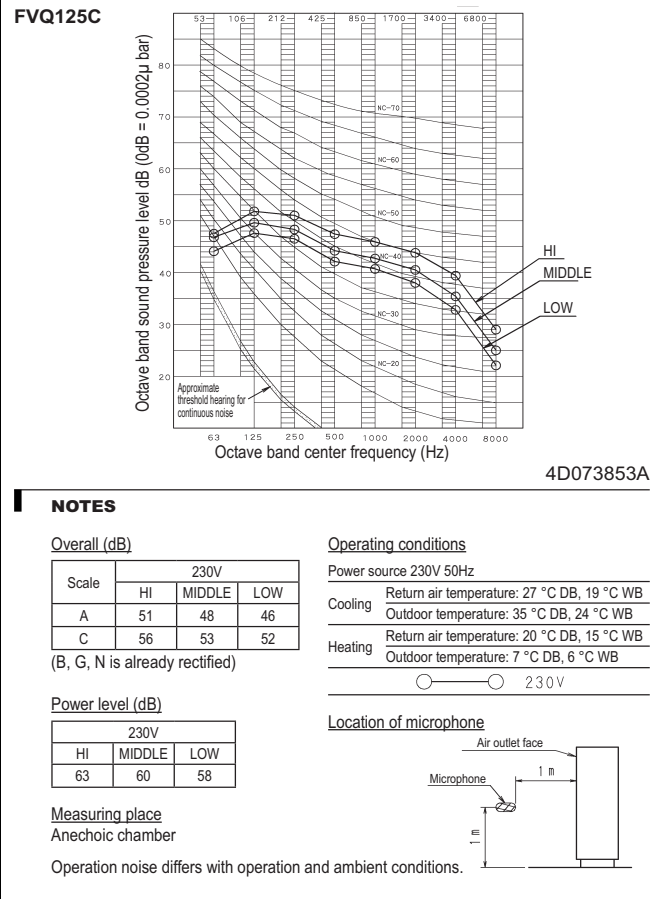
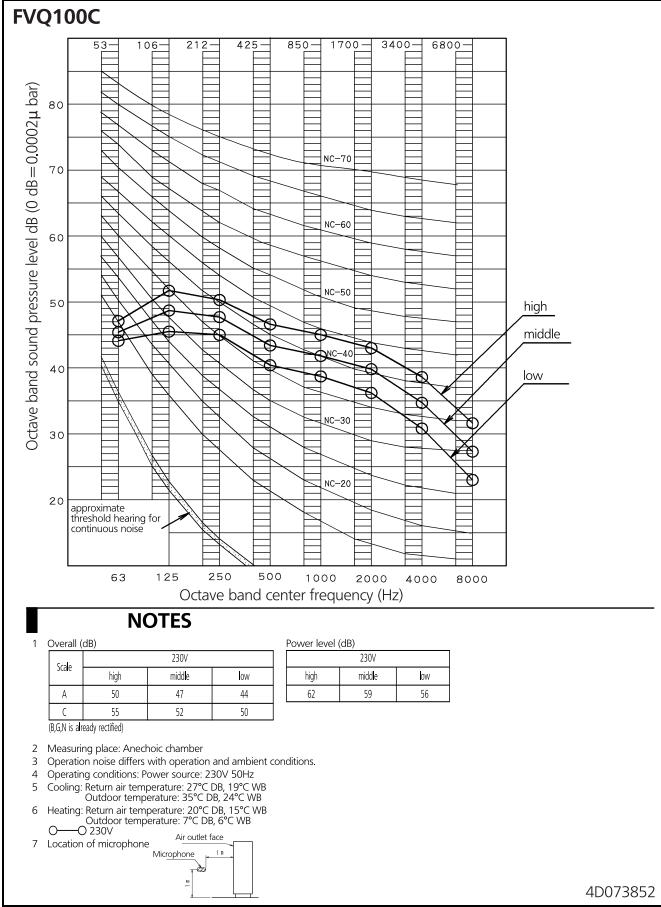
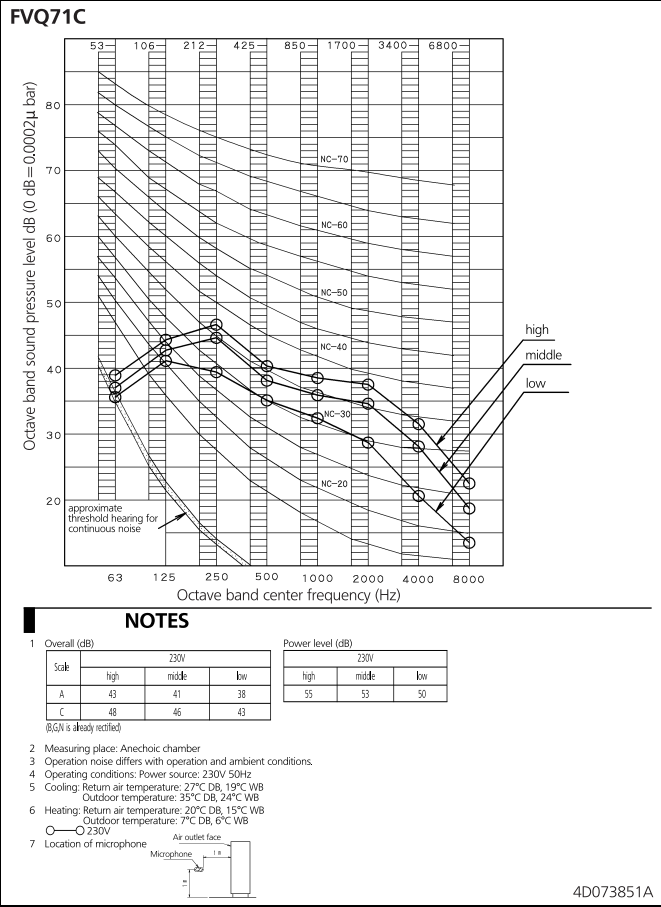
8 - 1 External Connection Diagrams

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9 Sound data

9 - 1 Sound Pressure Spectrum





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