

Air Conditioning **Technical Data**

Ceiling suspended unit



EEDEN13-100

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FHQ-C

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1 Features

- User friendly remote control with contemporary design
- Ideal solution for commercial spaces with narrow or no false ceilings
- Easy to use: all main functions directly accessible
- The unit can easily be mounted in comers and narrow spaces, as it only needs 30mm lateral service space
- Easy setup: clear graphical user interface for advanced menu settings
- Low energy consumption thanks to DC fan motor and drain pump
- Optimise your air conditioning system by activating a series of energy saving functions (temperature range limit, setback function, off timer, ...)
- Stylish unit blends easily with any interior, as the flaps close entirely when not in operation
- Keep track of your energy consumption with the kWh indication showing an indicative electricity consumption
- Can be installed in both new and existing buildings

- Setup to 3 independent schedules, so the user can easily change the schedule himself throughout the year (e.g. summer, winter, midseason)
- Wider air discharge thanks to Coanda effect: up to 100°
- Real time clock with auto update to daylight saving time
- Air flow distribution for ceiling heights up to 3.8m without capacity loss
- Supports multiple languages (English, German, Dutch, Spanish, Italian, Portuguese, French, Greek, Russian, Turkish and Polish)
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.
- · Possibility to individually restrict menu functions
- When a power failure occurs all settings remain stored up to 48 hours thanks to the built-in backup power
- Home leave operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy

































3 steps







optional

2 Specifications

2-1 Technical S	Specifications				FHQ35C	FHQ50C	FHQ60C	FHQ71C	FHQ100C	FHQ125C	FHQ140C		
Power input - 50Hz	Cooling	Nom.		kW	0.0	090	0.091	0.110	0.172	0.217	0.251		
	Heating	Nom.		kW	0.072		0.090		0.172	0.217	0.251		
Casing	Colour	-	Fresh White										
3	Material				Resin, sheet metal								
Dimensions	Unit	Unit Height/Width/ Depth			235/9	60/690		270/690	-	235/1,590/690			
	Packed unit	Height/W Depth	/idth/	mm	340/1,	116/858	349/1,	126/878		349/1,746/878			
Weight	Unit	Берш		kg	24	25	31	32		38			
	Packed unit			kg	38	39	52	54		61			
Packing	Material				-	Carton / Plywood							
	Weight			kg	8	3.5	13	3.9		15.0			
Heat exchanger	Length			mm	7	22	1,0)32		1,352			
	Rows	Quantity			2	3	2			3			
	Fin pitch			mm				1.5					
	Face area			m²	0.2	130	0.3	030		0.3980			
	Stages	Quantity			<u> </u>			14	i				
	Empty tubeplate hole	Empty tubeplate Quantity						0					
	Tube type					ø7 Hi-XSL							
	Tube material					Copper							
	Tube diameter	mm				7.0							
	Fin	Туре			7.0 ML fin (Multi louver)								
	' "'		nt		·								
	Treatment				Anti Corrosion Hydrophilic								
Fan	Туре			Siroccofan									
	Quantity				2			4					
	Air flow rate	Cooling	High	m³/min	14	15	19.5	20.5	28	31	34		
				cſm	494	530	689	724	989	1,095	1,201		
			Nom.	m³/min	11.5	12	15	17	24	27	29		
				cfm	406	424	530	600	848	953	1,024		
			Low	m³/min	1	10	11.5	14	20	23	24		
				cfm	3	53	406	494	706	812	848		
		Heating	High	m³/min	14	15	19.5	20.5	28	31	34		
				cfm	494	530	689	724	989	1,095	1,201		
			Nom.	m³/min	11.5	12	15	17	24	27	29		
				cfm	406	424	530	600	848	953	1,024		
			Low	m³/min		10	11.5	14	20	23	24		
			LOW	cfm		53	406	494	706	812	848		
For motor	Ou on titu			CIIII	3	33	400	1	700	0 12	040		
Fan motor	Quantity Model				KFD-280-87-8A KFD-280-117-8A EQDW01EDK								
					RFD-280-87-8A								
	Index of Protection												
	Insulation grade			Class "E"									
	Poles				8								
	Drive				Direct drive								
	Speed	Steps						3					
		Cooling	High/ Mediu m/Low	rpm	864/787/710	960/856/711	875/792/709	936/825/714	1,090/935/ 780	1,170/1,017/ 864	1,254/1,076 898		
		Heating	High/ Mediu	rpm	864/787/710	960/856/711	875/792/709	936/825/714	1,090/935/ 780	1,170/1,017/ 864	1,254/1,076 898		
	Output	High	m/Low	W	(L 50	Ġ] 91		150	<u> </u>		
	Phase x Voltage	-		٧		DC	280V			DC192V-380V	1		
	Full load amps	Cooling		Α		0.6		0.8	1.2	1.6	1.8		
	i dii ioda di lipo									ļ			
	(FLA)			Α		0.6		0.8	1.2	1.6	1.8		
Sound power level		Heating High/No	n./Low	A dBA	53/51/48	0.6 54/52/49	54/52/50	0.8 55/53/51	60/56/52	1.6 62/59/55	64/60/56		

2 Specifications

2-1 Technical S	2-1 Technical Specifications					FHQ60C	FHQ71C	FH Q100 C	FHQ125C	FHQ140C
Sound pressure level	Cooling	High/Nom./Low	dBA	36/34/31	37/35/32	37/35/33	38/36/34	42/38/34	44/41/37	46/42/38
	Heating	Super high/High/ Nom./Low	dBA	-/36/34/31	-/37/35/32	-/37/35/33	-/38/36/34	-/42/38/34	-/44/41/37	-/46/42/38
Refrigerant	Туре		_				R-410A			
Piping connections	Sound absorbing ins	ulation					Not needed			
	Liquid	Type/OD	mm	C1220T	(Flare connect	ion)/6.35	C1220T (Flare connection)/9.52			2
	Gas	Type/OD	mm	C1220T (Flare connection)/ 9.5	C1220T (Flare 12		C1220T (Flare connection)/15.9			
	Drain						VP 20			
	Heat insulation						Needed			
Air direction control	•			Up and downwards						
Air filter	Туре			Resin net with mold resistance						
	Quantity		рс				2			
Safety devices	Item	01		Fı	use (F, 5A, 250	V)			-	

Standard Accessories: Screw for wiring fixture;

Standard Accessories: Wiring fixture; Standard Accessories: Resin bushing; Standard Accessories: Sealing material; Standard Accessories: Joint insulating material; Standard Accessories: Installation pattern;

Standard Accessories: Clamps;

Standard Accessories: Washer for hanger bracket;

Standard Accessories: Clamp metal; Standard Accessories: Drain hose;

Standard Accessories: Declaration of conformity; Standard Accessories: Operation manual; Standard Accessories: Installation manual;

2-2 Electrical S	FHQ35C	FHQ50C	FHQ60C	FHQ71C	FH Q100 C	FHQ125C	FHQ140C		
Power supply	Name	VE							
	Phase		1~						
	Frequency	50/60							
	Voltage	V	220-240/220						
Current - 50Hz	Maximum running current	А		0.6		0.8	1.3	1.5	1.8
Current - 60Hz	Nominal running current	А				-			

3 Safety device settings

3 - 1 Safety Device Settings

FHQ-C

	Safety devices		35	50	60	71	100	125	140
	Fuse		250V 5A	250V 5A	250V 5A				
FHQ~C	Fan motor thermal fuse	°C							
	Fan motor thermal protector	°C							

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4 Options

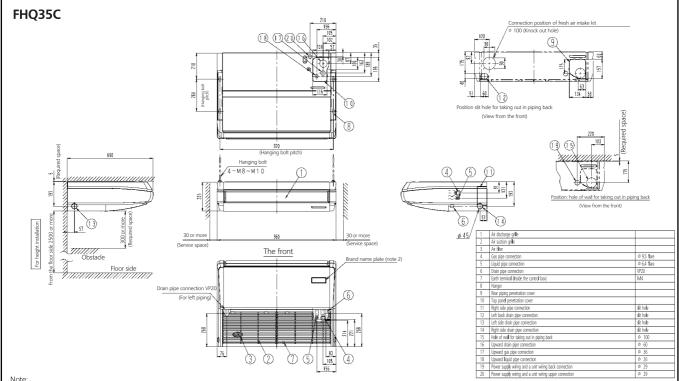
4 - 1 Options

Name of option	Remark					FHQ~C					
			35	50	60	71	100	125	140		
Long-life filter			KAFP5	01A56	KAFP5	01A80		KAFP501A160			
Fresh air intake kit						KDDQ50A140					
L-type piping kit (fo	r upward direction)			KHFP5N63			KHFP	5N160			
Remote controller	Wired type				BRC1D528, B	RC1E51A7, BRC1E52A	7, BRC1E52B7				
	Infrared type	Heat pump use				BRC7GA53					
		Cooling only use		BRC7GA56							
Central remote cont	roller					DCS302CA51					
Unified ON/OFF con	ed ON/OFF controller			DCS301BA51							
Schedule timer						DST301BA51					
Wiring adapter for e	electrical appendices					KRP1BA54					
Wiring adapter for electrical appendices						KRP4AA52					
	electrical appendices										
	outdoor unit (installation on i	ndoor unit)									
Installation box for	adapter PCB			KRP1D93A							
Remote sensor				KRCSO1-4B							
Remote On/Off (Connector for forced on, forced off)				EKRORO4							
Noise filter (for elect	tromagnetic use only)										
Electrical box with e	earth terminal (3 blocks)			KJB311AA							
Electrical box with e	earth terminal (2 blocks)			KJB212AA							

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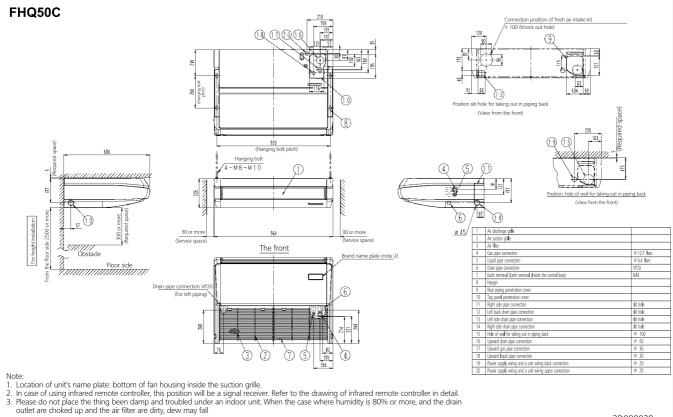
5 **Dimensional drawings**

Dimensional Drawings



- 1. Location of unit's name plate: bottom of fan housing inside the suction grille.
 2. In case of using infrared remote controller, this position will be a signal receiver. Refer to the drawing of infrared remote controller in detail.
 3. 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 filter are dirty, dew may fall.

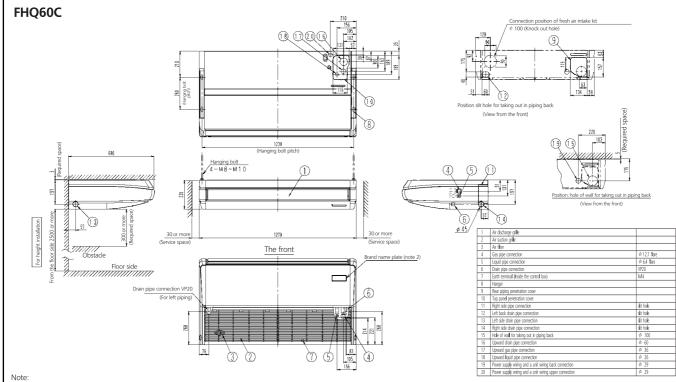
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5 **Dimensional drawings**

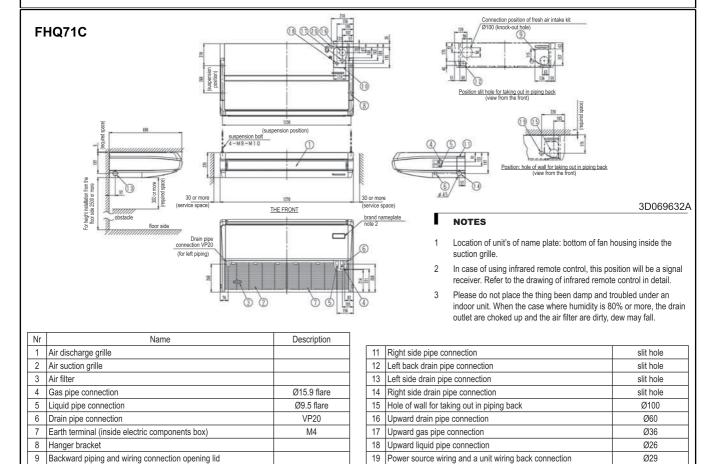
Dimensional Drawings



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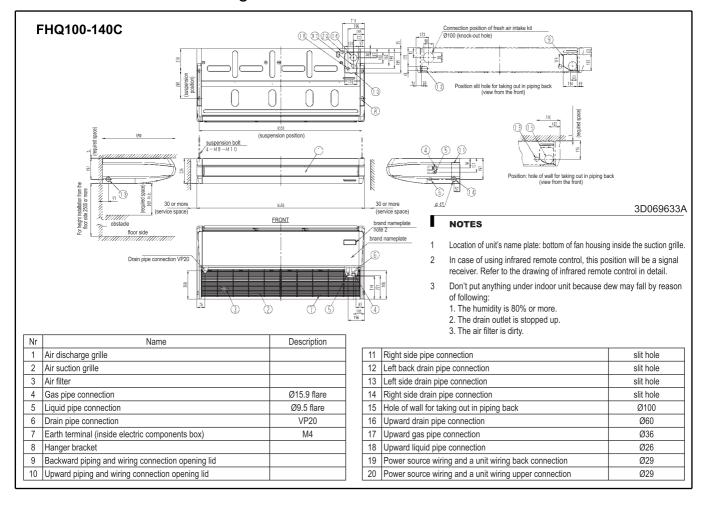


20 Power source wiring and a unit wiring upper connection

10 Upward piping and wiring connection opening lid

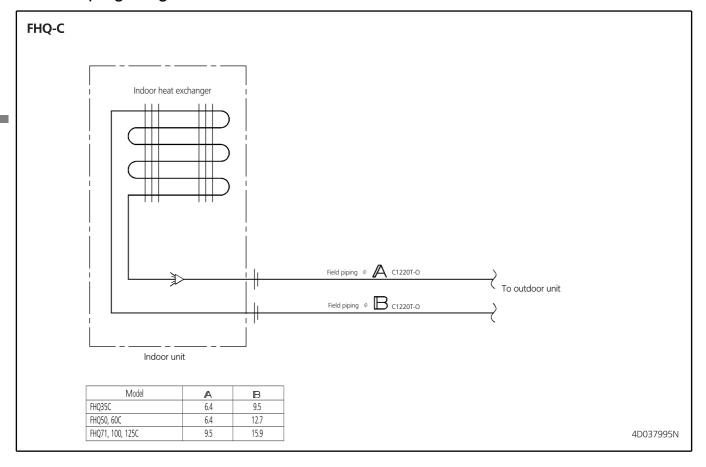
5 Dimensional drawings

5 - 1 Dimensional Drawings



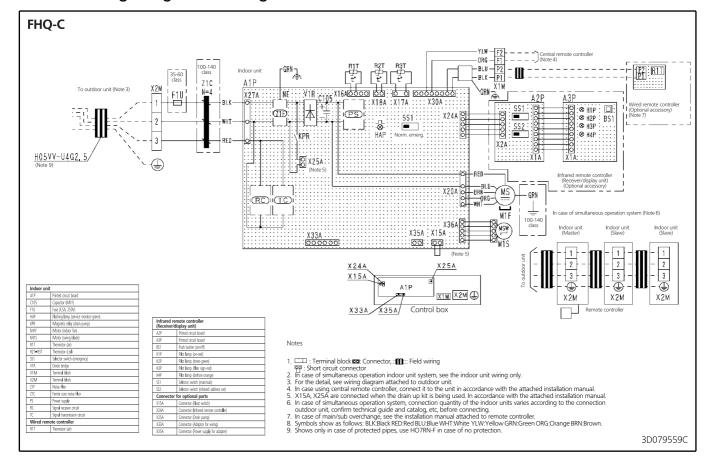
6 Piping diagrams

6 - 1 Piping Diagrams



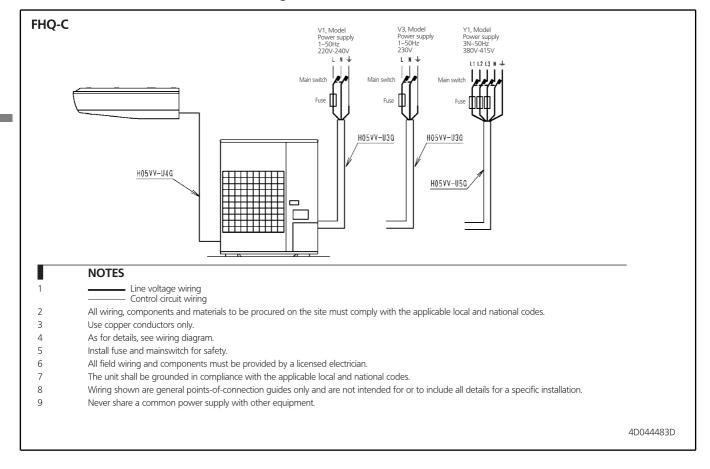
7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase



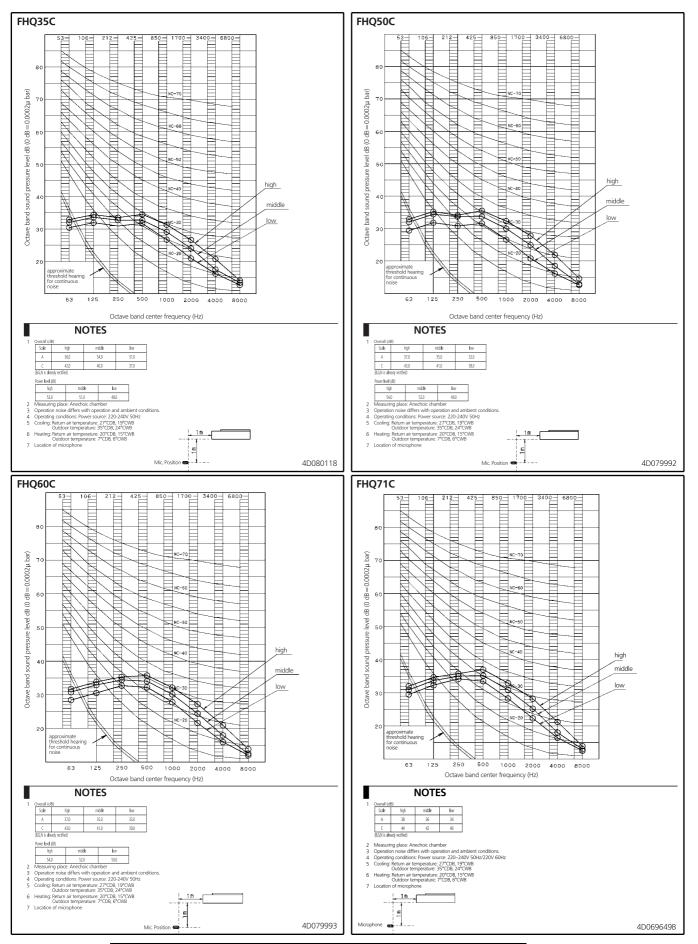
8 External connection diagrams

8 - 1 External Connection Diagrams



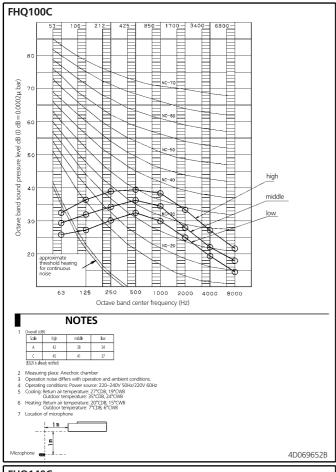
9 Sound data

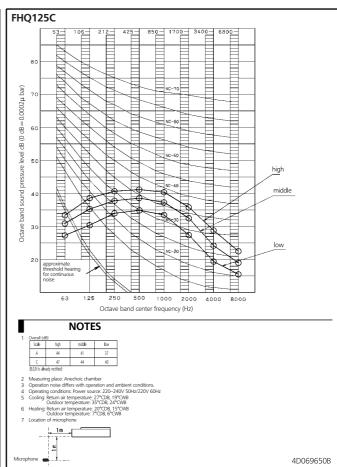
9 - 1 Sound Pressure Spectrum

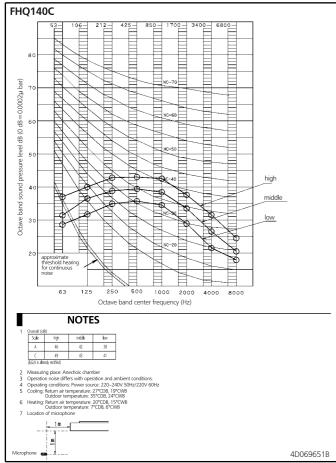


9 Sound data

9 - 1 Sound Pressure Spectrum









Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its dose involvement in environment al 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 positions of the provision of products that have limited impact on the environment. This positions of the provision of the pr ment. This challenge demands the eco design and development of a widerange of products and an energy management system, resulting in energy conservation and a reduction of waste.









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