



Air Conditioning Technical Data

4-way blow ceiling suspended unit



EEEN13-100

FUQ-C

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1 Features

- User friendly remote control with contemporary design
- Ideal solution for commercial spaces with no or narrow false ceilings
- Easy to use: all main functions directly accessible
- Low energy consumption thanks to specially developed small tube heat exchanger, DC fan motor and drain pump
- Easy setup: clear graphical user interface for advanced menu settings
- Stylish unit blends easily with any interior, as the flaps close entirely when not in operation
- Optimise your air conditioning system by activating a series of energy saving functions (temperature range limit, setback function, off timer, ...)
- Improved comfort thanks to automatic air flow adjustment to required load
- Keep track of your energy consumption with the kWh indication showing an indicative electricity consumption
- Individual flap control: one or more flaps can be easily closed via the wired remote controller (BRC1E52) in case you would refurbish or rearrange your interior
- Setup to 3 independent schedules, so the user can easily change the schedule himself throughout the year (e.g. summer, winter, mid-season)
- Can be installed in both new and existing buildings
- Real time clock with auto update to daylight saving time
- Same outlook for all models (unified dimensions)
- Supports multiple languages (English, German, Dutch, Spanish, Italian, Portuguese, French, Greek, Russian, Turkish and Polish)
- Auto swing function ensures efficient air and temperature distribution
- Possibility to individually restrict menu functions
- Air can be discharged in 5 different angles between 0 and 60°
- When a power failure occurs all settings remain stored up to 48 hours thanks to the built-in backup power
- Possibility to shut 1 or 2 flaps for easy installation in corners
- Home leave operation maintains the indoor temperature at your specified comfort level during absence, thus saving energy
- Air flow distribution for ceiling heights up to 3.5m without capacity loss
- No optional adapter needed for DIII-connection, link your unit into the wider building management system.



3 steps



standard

2 Specifications

2-1 Technical Specifications					FUQ71C		FUQ100C		FUQ125C			
Power input - 50Hz	Cooling		Nom.		kW		0.109		0.163		0.185	
	Heating		Nom.		kW		0.103		0.158		0.180	
Casing	Colour				Fresh White							
	Material				Resin							
Dimensions	Unit		Height/Width/Depth		mm		198/950/950					
	Packed unit		Height/Width/Depth		mm		295/1,026/1,016					
Weight	Unit				kg		25		26			
	Packed unit				kg		36		38			
Packing	Material				Carton / OSB board		Carton / OSB board		Carton / OSB board			
	Weight				kg		8.3					
Heat exchanger	Inside length				mm		2,413		2,360			
	Length				mm		-		2,413			
	Outside length				mm		2,467					
	Rows		Quantity			2		3				
	Fin pitch				mm		1.2					
	Face area				m²		0.3380		0.3300			
	Stages		Quantity			10						
	Empty tubeplate hole		Quantity			0						
	Tube type				Hi-XA							
	Tube material				Copper							
	Tube diameter				mm		5.0					
	Fin		Type			Multi slit fin						
			Treatment			Anti Corrosion Hydrophilic						
	Fan	Type				Turbo fan						
		Quantity				1						
Air flow rate		Cooling	High	m³/min	23		31		32.5			
				cfm	812		1,095		1,148			
			Nom.	m³/min	19.5		25.5		26.5			
				cfm	689		901		936			
			Low	m³/min	16		20		20.5			
				cfm	565		706		724			
Heating		High	m³/min	23		31		32.5				
			cfm	812		1,095		1,148				
		Nom.	m³/min	19.5		25.5		26.5				
			cfm	689		901		936				
		Low	m³/min	16		20		20.5				
			cfm	565		706		724				
Fan motor		Quantity				1						
	Model				ARW5203DK		EHDS10DDK					
	Index of Protection				20							
	Insulation grade				Class "E"							
	Poles				8							
	Drive				Direct drive							
	Speed		Steps		3							
			Cooling	High/ Mediu m/Low	rpm	608/528/448		804/680/555		840/697/555		
	Heating	High/ Mediu m/Low	rpm	608/528/448		804/680/555		840/697/555				
	Output		High		W		46		106			
Phase x Voltage				V		DC280V						
Full load amps (FLA)		Cooling		A		0.7		1.0		1.1		
		Heating		A		0.7		1.0		1.1		
Sound power level	Cooling		High/Nom./Low		dBA		59/56/51		64/60/55		65/61/56	
	Heating		High/Nom./Low		dBA		59/56/51		64/60/55		65/61/56	

2 Specifications

2-1 Technical Specifications				FUQ71C	FUQ100C	FUQ125C
Sound pressure level	Cooling	High/Nom./Low	dBA	41/38/35	46/42/39	47/43/40
	Heating	Super high/High/ Nom./Low	dBA	-/41/38/35	-/46/42/39	-/47/43/40
Refrigerant	Type			R-410A		
Piping connections	Sound absorbing insulation			Not needed		
	Liquid	Type/OD	mm	C1220T (Flare connection)/9.52		
	Gas	Type/OD	mm	C1220T (Flare connection)/15.9		
	Drain			VP25 (OD Ø32.0)		
	Heat insulation			Needed		
Air direction control				Up and downwards		
Air filter	Type			Resin net with mold resistance		
	Quantity		pc	1		
Drain-up height			mm	600		

Standard Accessories : Drain hose;

Standard Accessories : Declaration of conformity;

Standard Accessories : Operation manual;

Standard Accessories : Installation manual;

Standard Accessories : Clamp metal;

Standard Accessories : Washer for hanger bracket;

Standard Accessories : Clamps;

Standard Accessories : Washer clamp;

Standard Accessories : Joint insulation & Sealing material;

Standard Accessories : Elbow;

Standard Accessories : Installation pattern;

Standard Accessories : Blocking material;

Standard Accessories : L-bent piping;

Standard Accessories : Screws;

Standard Accessories : Non woven fabric;

2-2 Electrical Specifications				FUQ71C	FUQ100C	FUQ125C
Power supply	Name			VE		
	Phase			1~		
	Frequency	Hz		50/60		
	Voltage	V		220-240/220		
Current - 50Hz	Maximum running current	A		0.9	1.3	1.4
Current - 60Hz	Nominal running current	A		-		

3 Safety device settings

3 - 1 Safety Device Settings

FUQ-C

	Safety devices		71	100	125
FUQ~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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Name of option	Remark		FUQ~C		
			71	100	125
Sealing member of air discharge outlet			KDBHP49B140		
Decoration panel for air discharge			KDBTP49B140		
Replacement long-life filter			KAFP551K160		
Remote controller	Wired type		BRC1D528, BRC1E51A7, BRC1E52A7, BRC1E52B7		
	Infrared type	Heat pump use	BRC7CB58		
		Cooling only use	BRC7CB59		
Central remote controller			DCS302CA51		
Unified ON/OFF controller			DCS301BA51		
Schedule timer			DST301BA51		
Wiring adapter for electrical appendices			KRP4AA53 ...✕ 1		
Installation box for adapter PCB			KRP1BA97		
Remote sensor			KRCS01-4B		
Connector for forced on, forced off			EKROR05		
Electrical box with earth terminal (3 blocks)			KJB311AA		
Electrical box with earth terminal (2 blocks)			KJB212AA		

Note)

✕ 1; Installation box for adapter PCB (KRP1BA97) is necessary.

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5 Dimensional drawings

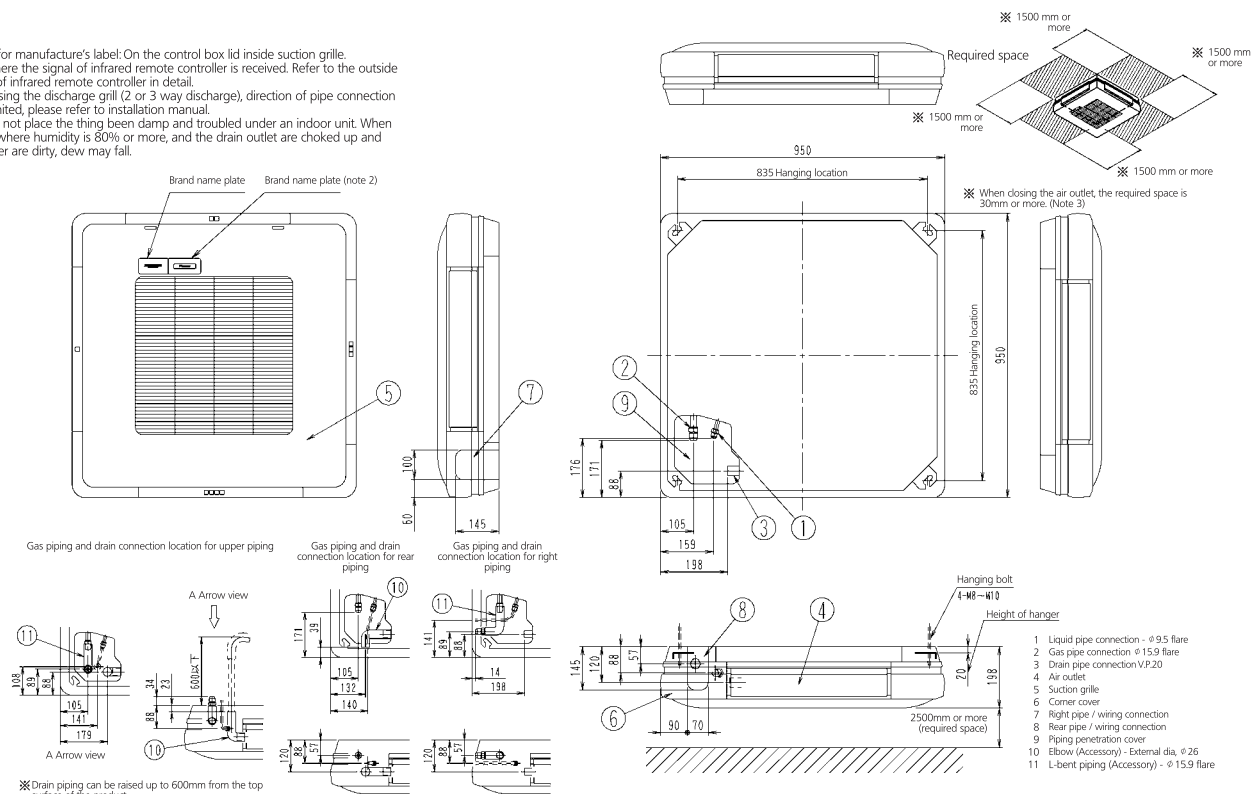
5 - 1 Dimensional Drawings

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Note:

1. Location for manufacture's label: On the control box lid inside suction grille.
2. This is where the signal of infrared remote controller is received. Refer to the outside drawing of infrared remote controller in detail.
3. When closing the discharge grill (2 or 3 way discharge), direction of pipe connection will be limited, please refer to installation manual.
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 filter are dirty, dew may fall.

(Unit: mm)



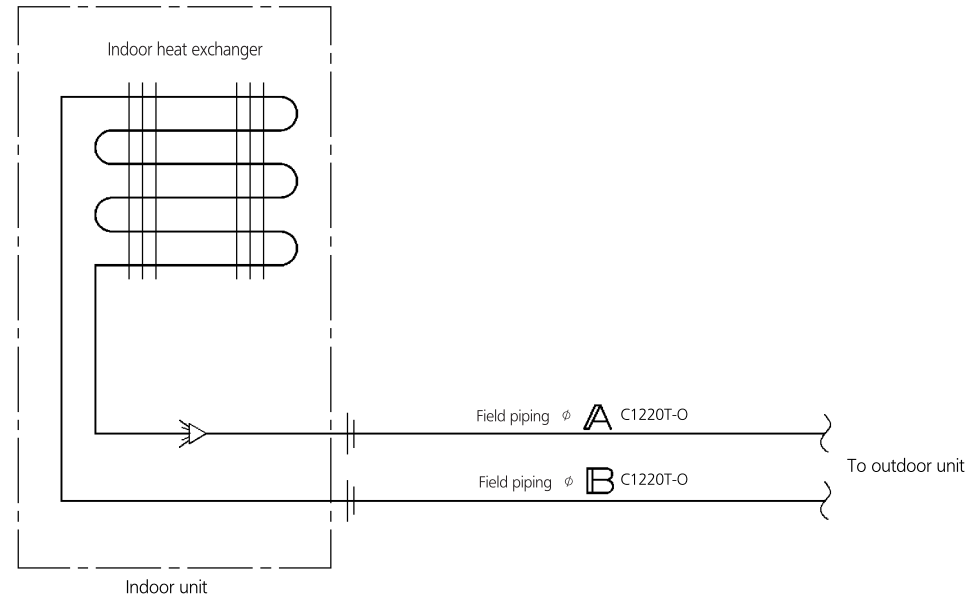
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6 Piping diagrams

6 - 1 Piping Diagrams

6

FUQ-C



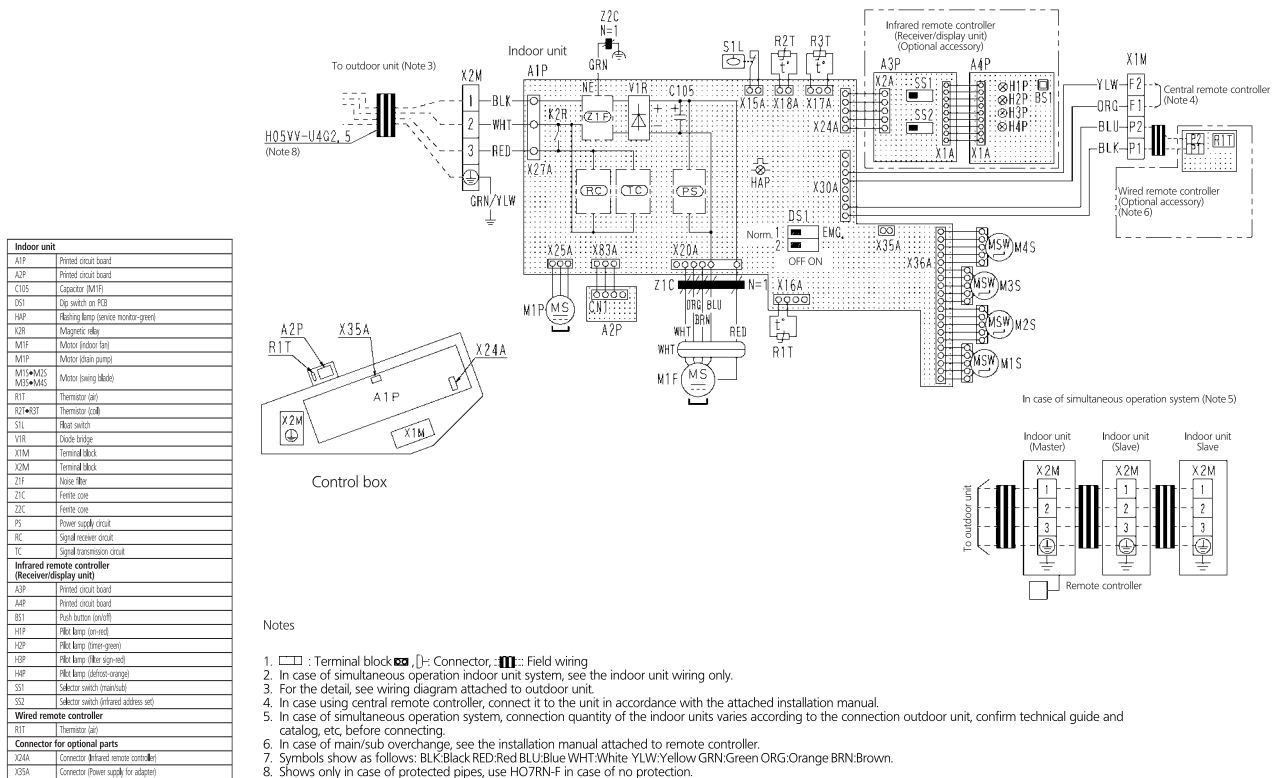
Model	A	B
FUQ71, 100, 125C	9.5	15.9

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7 Wiring diagrams

7 - 1 Wiring Diagrams - Single Phase

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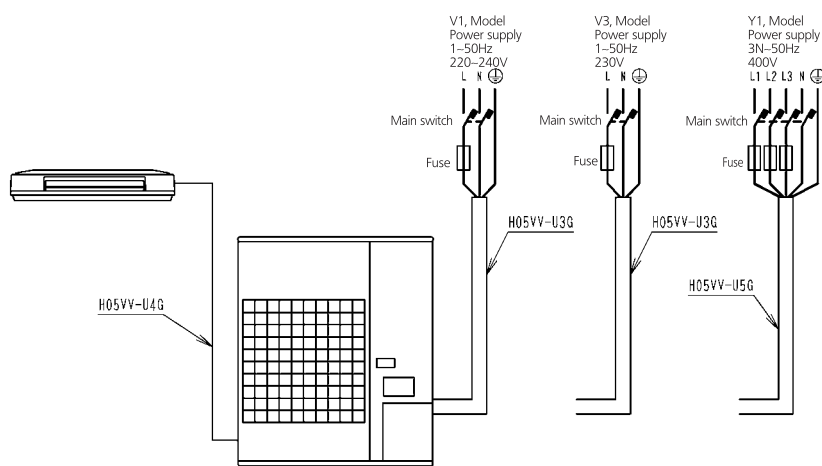


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8 External connection diagrams

8 - 1 External Connection Diagrams

FUQ-C



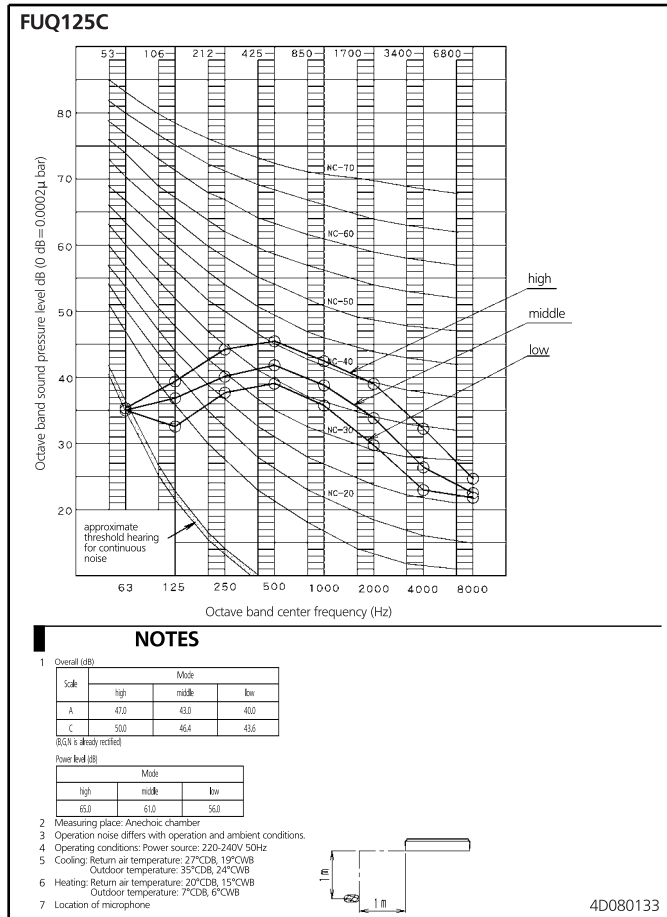
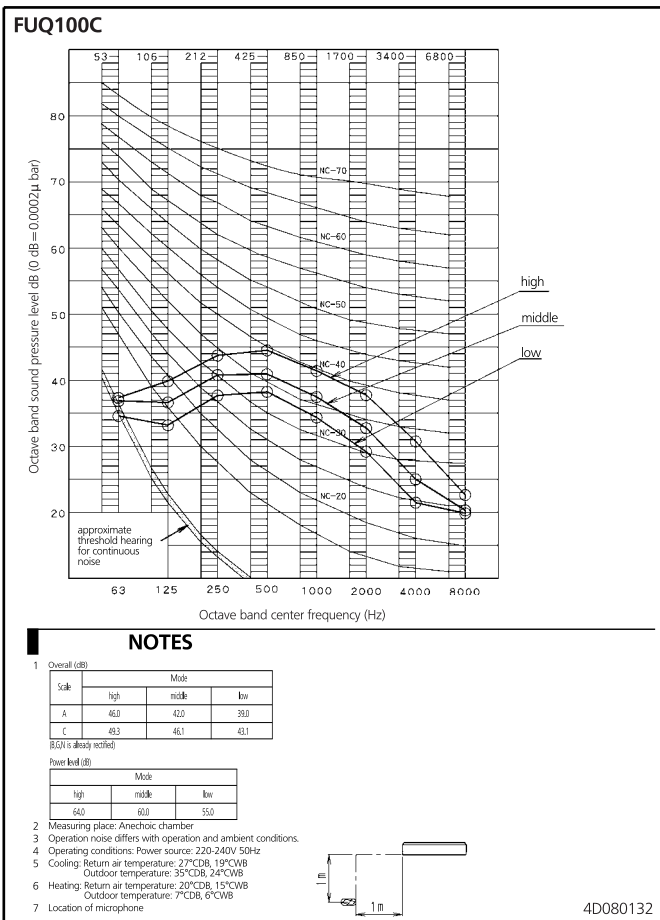
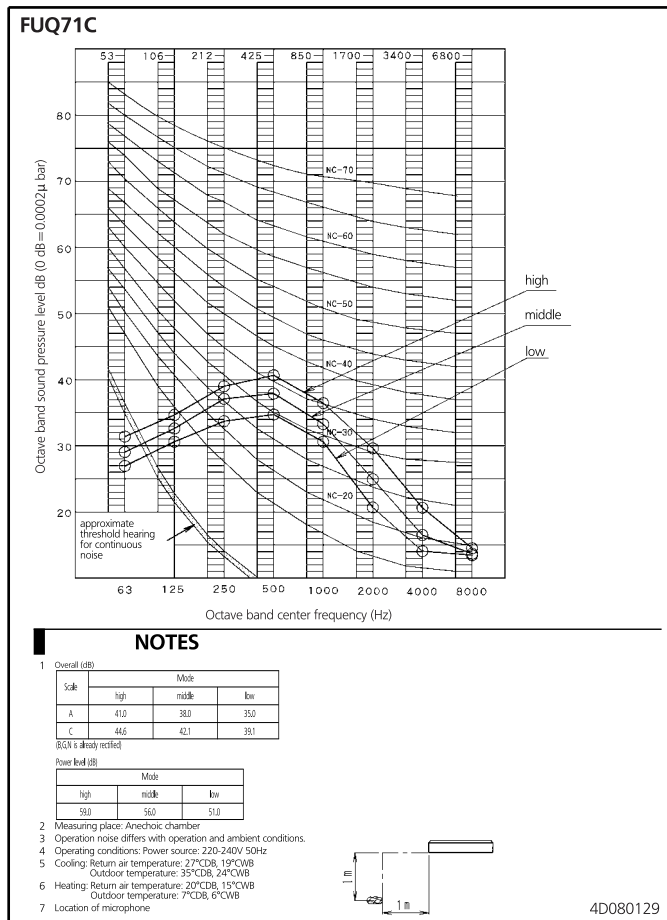
NOTES

- 1 Line voltage wiring
 Control circuit wiring
- 2 All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
- 3 Use copper conductors only.
- 4 As for details, see wiring diagram.
- 5 Install fuse and main switch for safety.
- 6 All field wiring and components must be provided by a licensed electrician.
- 7 The unit shall be grounded in compliance with the applicable local and national codes.
- 8 Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
- 9 Never share a common power supply with other equipment.

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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 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 wider range of products and an energy management system, resulting in energy conservation and a reduction of waste.



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