DAIKIN

AIR CONDITIONERS, HEATING & COOLING

for shops, restaurants and offices

4-WAY BLOW CEILING SUSPENDED UNIT

air to air heat pumps

www.daikin.eu

FUQ-B

‘MADE BY DAIKIN’: WORLD-FAMOUS FOR EFFICIENCY

By purchasing a Daikin air conditioner, you are taking the right step towards a comfortable indoor climate today. Advanced climate systems in modern office buildings, shops, hotels and restaurants are not a luxury anymore.

That is logical, because the whisper-quiet Daikin air conditioners provide for an indoor climate that is comfortable for your customers in any season. In other words, employees who are more productive and who have fewer health problems. And customers who spend more time in your business and gladly come back.

As a leading manufacturer of air conditioning systems for the retail and utilities market, Daikin can meet all your specific requirements when it comes to temperature and air quality.

THE PERFECT SYSTEM FOR SPACES WITHOUT A FALSE CEILING

- **The efficient solution for larger, busier rooms with ceiling heights up to 3.5 metres**
- **Different air flow patterns for even more comfort**

CEILING MOUNTING MODEL FUQ-B: THE IDEAL CLIMATE CONTROL FOR LARGER SPACES

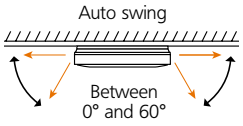
The ceiling-mounted models with 4-sided flaps are the perfect solution for office, shop, restaurant and hotel spaces without false ceilings. Since the units are mounted on the ceiling, they do not take up any space on the wall or floor. The FUQ-B indoor units are an obvious choice for larger spaces.

A WHOLE SERIES OF INTELLIGENT COMFORT FUNCTIONS

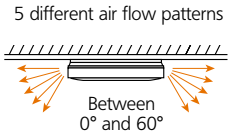
» **Ceiling heights to 3.5 metres**
The air flow distribution can be adjusted without loss of capacity for ceiling heights to 3.5 metres.

› **Different air flow configurations** can be easily selected with the remote control for an even more comfortable space:

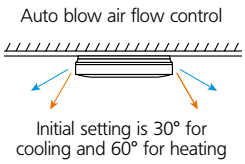
› **Autoswing:**
The vertical autoswing system moves the flaps automatically up and down, creating a uniform air flow and temperature distribution.



» **5 different air flow patterns:**
All 5 different air flow patterns between 0° and 60° can be freely selected. The chosen air flow pattern will be maintained during the operation of the air conditioner.



› **Auto blow air flow control:**
The last selected air flow pattern is memorized and automatically reset the next time the unit is turned ON. Initial setting is 30° for cooling and 60° for heating.



› **Draught prevention (heating mode):**
This setting ensures that when using heating, horizontal air flow is automatically switched to, preventing drafts.

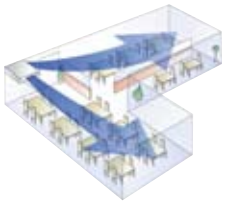
› **Air filter**
A built-in filter premanently clears the air of microscopically small dust particles.

FLEXIBLE INSTALLATION, SIMPLE USE AND MAINTENANCE

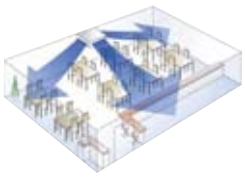
› The **air** is discharged in 4 directions.

» It is possible to **shut off one or 2 flaps** enabling the unit to be installed in the middle of the room, in a corner or in a small room.

2-Way blow



3-Way blow



4-Way blow

› The **outdoor unit** can be installed on the roof, terrace or against an outside wall.

SUPER COMPLETE REMOTE CONTROL

› Daikin **remote controls** give you easy control at your fingertips.

› The **wired remote control** (optional) provides you with a schedule timer, enabling the air conditioning to be programmed daily or weekly.

› With the **optional ON / OFF function**, the air conditioner can, with a mobile phone, be switched on and off remotely. With this function you can also make the unit switch off automatically, e.g. when someone opens a window.

Infrared remote control (Optional)

Wired remote control (Optional)

COOLING IN THE SUMMER, HEATING IN THE WINTER AND ALWAYS FRESH AIR. ALL WITH ONE COMPACT CEILING SUSPENDED UNIT.

ENERGY EFFICIENT

› A **Energy label:** up to class A

› **Inverter technology**

The inverter technology, developed by Daikin is a true innovation in the area of climate control. The principle is simple: inverters adjust the power used to suit the actual requirement. No more, no less. This technology provides you with two concrete benefits:

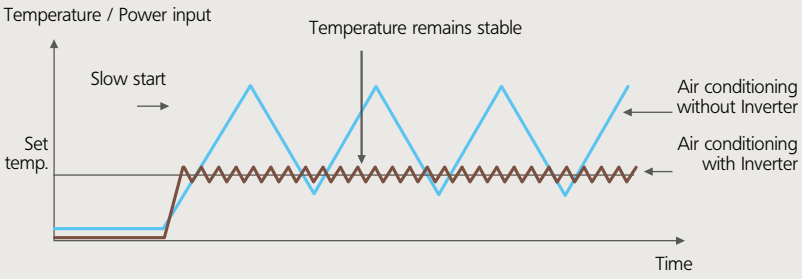
1. **Comfort**

   The inverter repays its investment many times over by improving comfort. An air conditioning system with an inverter continuously adjusts its cooling and heating output to suit the temperature in the room.
   The inverter shortens system start-up time enabling the required room temperature to be reached more quickly.
   As soon as that temperature is reached, the inverter ensures that it is constantly maintained.

2. **Energy efficient**

   Because an inverter monitors and adjusts ambient temperature whenever needed, energy consumption drops by 30% compared to a traditional on/off system!

Heating operation:



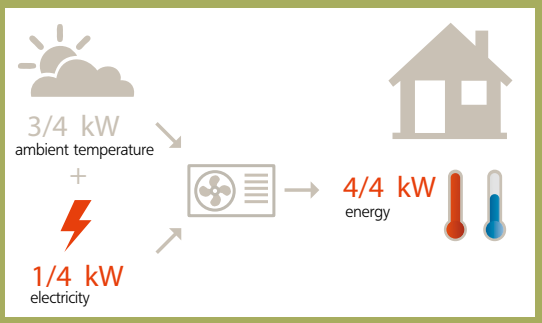
› **Home leave operation**

In case of extended absence, this function helps to save energy. If there is no one in the area for an extended period, e.g. during holidays or closing days, this function automatically sets the room temperature to a minimum of 10°C. At this point, all connected indoor units will switch over to heating mode. The function will be deactivated as soon as the room temperature reaches 15°C, and it will also have to be switched off when the room is in use again.

POSSIBILE APPLICATIONS

› Depending on your air conditioning need, you can have your unit either **heat or cool (heat pump).**

› It is possible to use the indoor unit in **pair** (connecting one indoor to one outdoor), **twin**, **triple** application (connecting up to 3 indoors in the same room to a single outdoor).



DID YOU KNOW *that ...*

Air to air heat pumps use 3/4th of energy from renewable sources: the ambient air. This energy source is renewable and inexhaustible*. Of course, heat pumps also use 1/4th of electricity to transform the ambient air into comfort heat, but increasingly this electricity can also be generated from renewable energy sources (solar energy, wind energy, hydropower, biomass).

* EU objective COM (2008)/30

CAPACITY AND POWER INPUT

HEATING & COOLING - INVERTER CONTROLLED				FUQ71B RZQ71DV1	FUQ100B RZQ100DV1	FUQ100B RZQ100BW1	FUQ125B RZQ125DV1	FUQ125B RZQ125BW1
Cooling capacity		nominal	kW	7.10	10.00	10.00	12.5	12.50
Heating capacity		nominal	kW	8.00	11.20	11.20	14.0	14.00
Nominal input	cooling	nominal	kW	2.21	2.97	3.12	3.96	4.05
	heating	nominal	kW	2.34	3.31	3.28	4.26	4.36
EER				3.21	3.37	3.21	3.16	3.09
COP				3.42	3.38	3.41	3.29	3.21
Energy label	cooling			A	A	A	B	B
	heating			B	C	B	C	B
Annual energy consumption	cooling		kWh	1,055	1,484	1,560	1,978	2,025

Notes:
1) Energy label: scale from A (most efficiënt) to G (less efficiënt).
2) Annual energy consumption: based on average use of 500 running hours per year full load (= nominal capacity).

TWIN/TRIPLE APPLICATION	FUQ71B	FUQ100B	FUQ125B
RZQ140	2		
RZQ200	3	2	
RZQ250			2

SPECIFICATIONS INDOOR UNITS

HEATING & COOLING - INVERTER CONTROLLED				FUQ71B	FUQ100B	FUQ125B
Dimensions		HxWxD	mm	165x895x895	230x895x895	
Weight			kg	25	31	
Casing colour				White		
Air flow rate	cooling	H/L	m³/min	19/14	29/21	32/23
	heating	H/L	m³/min	19/14	29/21	32/23
Fan speed				2 steps		
Sound pressure level	cooling	H/L	dB(A)	40/35	43/38	44/39
	heating	H/L	dB(A)	40/35	43/38	44/39
Sound power level	cooling	H/L	dB(A)	56/51	59/54	60/55
Piping connections		liquid	mm	Ø 9.5		
		gas	mm	Ø 15.9		
		drain (VP20)	ID mm	Ø 20		
			OD mm	Ø 26		
Heat insulation				Heat resistant foamed polyethylene, regular foamed polyethylene		

SPECIFICATIONS OUTDOOR UNITS

HEATING & COOLING - INVERTER CONTROLLED				RZQ71DV1	RZQ100DV1	RZQ100BW1	RZQ125DV1	RZQ125BW1
Dimensions		HxWxD	mm	770x900x320	1,345x900x320	1,345x900x320	1,345x900x340	1,345x900x320
Weight			kg	67	109	106	109	106
Casing colour				Ivory white				
Sound pressure level (night quiet mode)	cooling	H	dB(A)	48(43)	50(45)	49(45)	50(45)	50(45)
	heating	H	dB(A)	50	52	51	53	52
Sound power level	cooling	H	dB(A)	64	65	65	67	66
Compressor			type	Herm. sealed swing	Hermetically sealed scroll			
Refrigerant type				R-410A				
Refrigerant charge			kg/m	2.75	3.95	4.3	3.95	4.3
Maximum piping length			m	50 (equiv. length 70)	75 (equivalent length 95)			
Maximum level difference			m	30				
Operation range	cooling	from ~ to	°CDB	-15~50				
	heating	from ~ to	°CDB	-20~15.5				

Height	165 mm
Width	895 mm
Depth	895 mm

Indoor unit
FUQ-B

Height	1,345 mm
Width	900 mm
Depth	320 mm

Outdoor unit
RZQ125DV1

ACCESSORIES: CONTROL SYSTEMS

INDOOR UNITS	FUQ71B	FUQ100B	FUQ125B
Wired remote control	BRC1D52		
Infrared remote control	BRC7C528		
Centralised remote control	DCS302CA51		
Unified ON/OFF control	DCS301BA51		
Schedule timer	DST301BA51		
Electrical box with earth terminal (2 blocks)	KJB212AA		
Electrical box with earth terminal (3 blocks)	KJB311AA		
Wiring adapter for electrical appendices (1)	KRP4AA53(1)		
Interface adapter for Sky Air	DTA112BA51		
Installation box for adapter PCB	KRP1BA97		
Remote ON / OFF	EKRORoA		
Remote sensor	KRCS01-1A		

Note: (1) Installation box for adapter PCB (KRP1B97) is necessary for each adapter marked with *.

ACCESSORIES: INDOOR UNITS

INDOOR UNITS	FUQ71B	FUQ100B	FUQ125B
L-type piping kit	KHFP49MA140		
Replacement long-life filter	KAF495FA140		
Sealing member of air discharge outlet	KDBH49FA80	KDBHJ49FA140	
Decoration panel for air discharge	KDBT49FA80	KDBT49FA140	
Vertical flap kit	KDGJ49FA80	KDGJ49FA140	

ACCESSORIES: OUTDOOR UNITS

OUTDOOR UNITS		RZQ71DV1	RZQ100DV1/BW1	RZQ125DV1/BW1
Central drain plug		EKDK04		
Refrigerant branch piping	for twin	KHRQ22M20TA8		
	for triple	-	KHRQ127H8	
Demand adapter kit	remote control of sound reduction and power input	KRP58M51		

1) V1 = 1~, 230V, 50Hz; V3 = 1~, 230V, 50Hz
2) Nominal cooling capacities are based on: indoor temperature 27°CDB / 19°CWB • outdoor temperature 35°CDB • refrigerant piping length 7.5m • level difference 0m.
3) Nominal heating capacities are based on: indoor temperature 20°CDB • outdoor temperature 7°CDB / 6°CWB • refrigerant piping length 7.5m • level difference 0m.
4) Capacities are net, including a deduction for cooling (an addition for heating) for indoor fan motor heat.
5) Units should be selected on nominal capacity. Max. capacity is limited to peak periods.
6) The sound pressure level is measured via a microphone at a certain distance from the unit (for measuring conditions: please refer to the technical data books).
7) The sound power level is an absolute value indicating the "power" which a sound source generated.

In all of us, a green heart

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.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory. Multi units are Eurovent certified for combinations up to 2 indoor units.

Daikin products are distributed by:

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