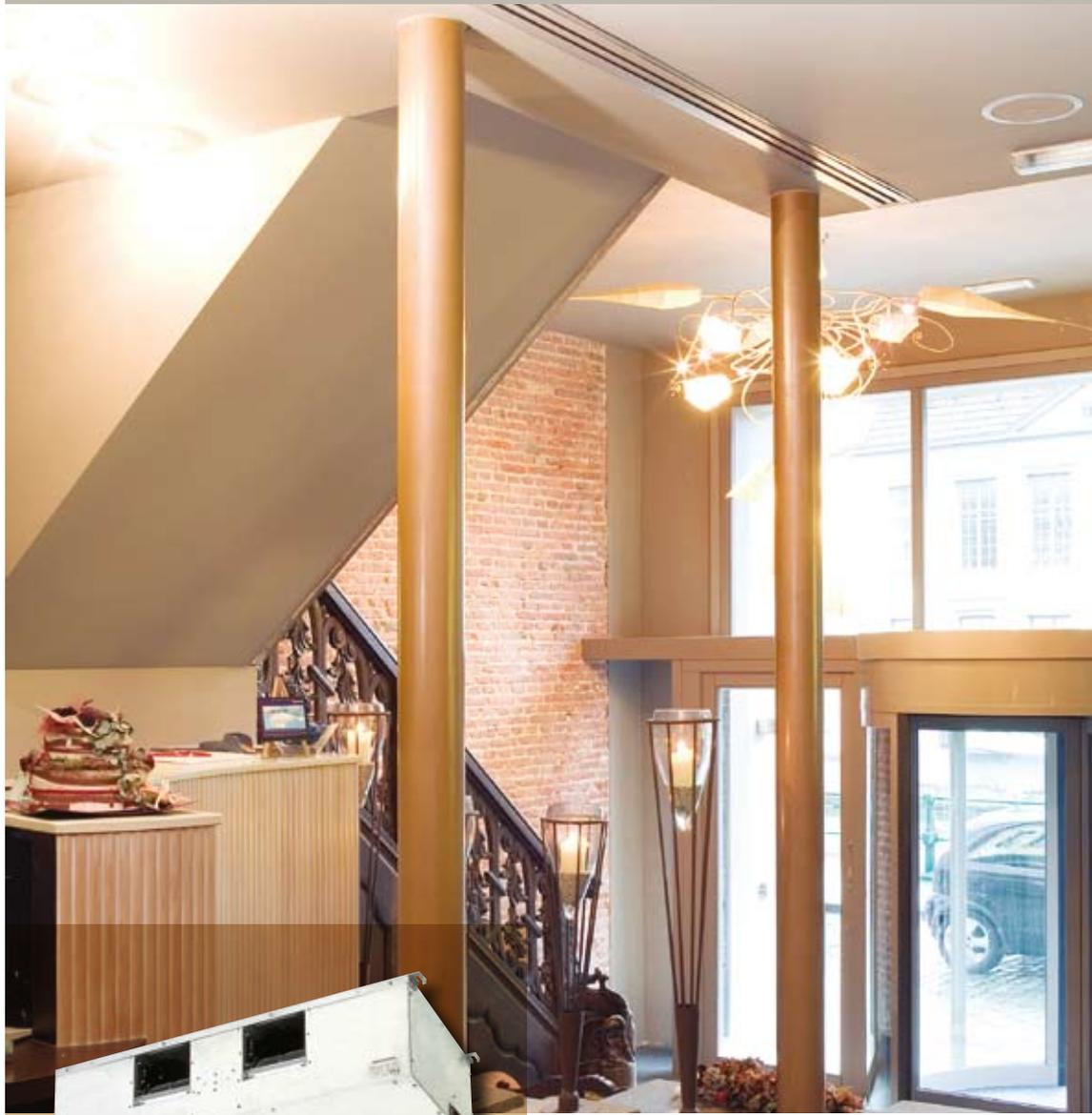




AIR CONDITIONERS, HEATING & COOLING
for large spaces

CONCEALED CEILING UNIT

air to air heat pumps



www.daikin.eu



FDQ-B

THE MOST ADVANCED CLIMATE CONTROL FOR LARGE SPACES

The quality air conditioning of Daikin brings the temperature and air humidity to a level where everyone feels good in his skin. Our aim is for people to be able to feel comfortable in shopping centres, restaurants, at work or wherever.

That is the perspective from which Daikin develops integrated solutions that guarantee high climate comfort and a healthy interior environment. Solutions that also yield great savings when it comes to energy costs.

The newest generation of Inverter air conditioners by Daikin combines low energy use with advanced technology.

This generation is also synonymous for great performance and simplified installation. Whisper-quiet advanced technology, with which Daikin leads in the restaurant, hotel and retail market.

BUILT-IN SATELLITE MODEL FDQ-B: FOR A UNIFORM TEMPERATURE DISTRIBUTION

- » **Can be mounted in the ceiling simply and discretely**
- » **Flexible duct systems for large areas: ESP up to 250Pa**
- » **High capacity: up to 26.4 kW in heating mode**

Built-in satellite units are mounted in the space between the ceiling and the lowered ceiling, leaving only the intake and grills showing. Since these grills can be placed anywhere, the temperature can be distributed evenly in large rooms and in rooms with partitions. The built-in satellite units are among the quietest air conditioners on the market.





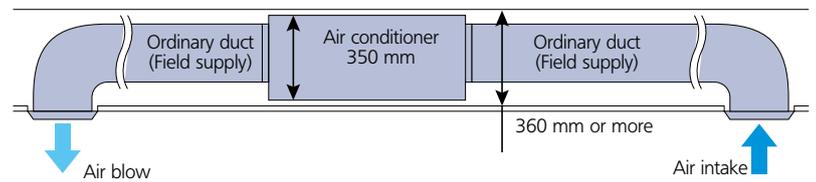
The integrated climate solutions of Daikin are a guarantee of:

- > Unparalleled comfort performance
- > A healthy indoor environment
- > And significant saving in energy costs*.

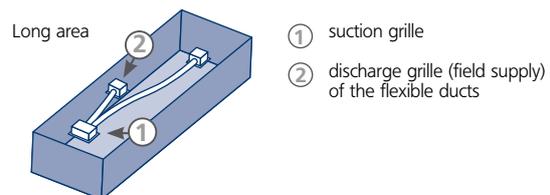
*Compared to non inverter units

FLEXIBLE INSTALLATION, SIMPLE MAINTENANCE

- » Since the indoor unit has a low height it fits flush into a narrow ceiling void. The FDQ-B model can be installed in a false ceiling of nearly 360 mm.



- » The air discharge unit can be separated from the actual air conditioner for use in long or large areas by means of **flexible duct systems** (ESP up to 250Pa). In this way even very big areas can be kept comfortable.



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

MAXIMUM RELIABILITY, MINIMUM NOISE

> **Quiet in operation**

The indoor unit is quiet in operation. The sound levels are as low as 44dB(A), comparable to refrigerator humming or a quiet conversation.

> **Regelbare ventilatiesnelheid**

You can select a high fan speed, providing you maximum reach.

> **Air filter**

A built-in filter permanently clears the air of microscopically small dust particles.

DID YOU KNOW *that* ...

With heat pumps, large rooms can also be heated efficiently.

This makes heat pumps an economical alternative to traditional heating systems using gas or oil.

In addition, with a heat pump, one can heat energy-efficiently, with lower CO₂ emissions.



SUPER COMPLETE REMOTE CONTROL

- > With the **infrared remote control** (optional) the simple operation of your Daikin air conditioner is always 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 be switched on and off remotely with a mobile phone. With this function you can also make the unit switch off automatically, e.g. when someone opens a window.



Wired remote control
(Optional)

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:

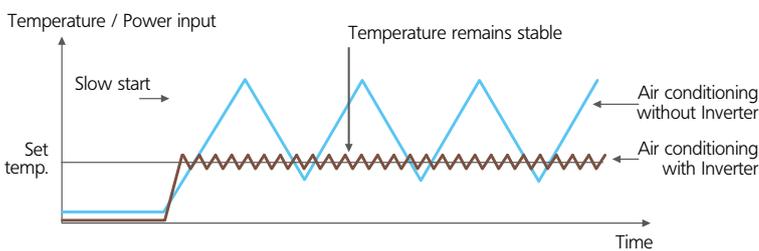
1. Comfort

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.

APPLICATION OPTIONS

- > 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) and **twin**, (connecting up to 2 indoors in the same room to a single outdoor).



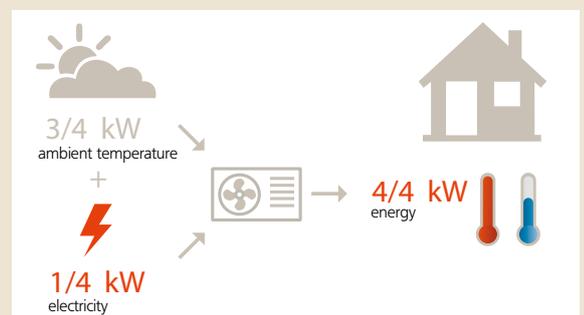
DID YOU KNOW



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 (air cooled)				FDQ125B	FDQ125B	FDQ125B	FDQ200B	FDQ250B
				RZQS125DV1	RZQ125DV1	RZQ125BW1	RZQ200CY1	RZQ250CY1
» Cooling capacity	nominal	kW	12.5	12.5	12.5	20.0	24.1	
» Heating capacity	nominal	kW	14.0	14.0	14.0	23.0	26.4	
Nominal input	cooling	nominal	kW	4.30	3.96	4.15	6.23	8.58
	heating	nominal	kW	3.97	3.61	3.69	6.74	8.22
EER			2.91	3.16	3.01	3.21	2.81	
COP			3.53	3.88	3.79	3.41	3.21	
Energy label	cooling		C	B	B	A	C	
	heating		B	A	A	B	C	
Annual energy consumption	cooling	kWh	2,148	1,978	2,075	3,115	4,290	

Notes:

(1) Energy label: scale from A (most efficient) to G (less efficient).

(2) Annual energy consumption: based on average use of 500 running hours per year at full load (= nominal conditions)

Height	350 mm
Width	1,400 mm
Depth	662 mm

Height	1,345 mm
Width	900 mm
Depth	320 mm



Indoor unit
FDQ-B



Outdoor unit
RZQ125DV1

SPECIFICATIONS INDOOR UNITS

HEATING & COOLING				FDQ125B	FDQ200B	FDQ250B
Dimensions	HxWxD		mm	350x1,400x662	450x1,400x900	
Weight			kg	59	93	93
Air flow rate	cooling	M	m ³ /min	43	69	89
	heating	M	m ³ /min	43	69	89
Fan speed				3 steps (direct drive)		2 steps (direct drive)
Sound pressure level	cooling	H	dB(A)	44	45	47
	heating	H	dB(A)	44	45	47
Sound power level	cooling	H	dB(A)	75	81	82
Piping connections	liquid		mm	ø9.52		ø12.7
	gas		mm	ø15.9	ø22.2	
	drain		mm	-	ø25	
Heat insulation				Both liquid and gas pipes		

SPECIFICATIONS OUTDOOR UNITS

HEATING & COOLING - INVERTER CONTROLLED				RZQS125DV1	RZQ125DV1	RZQ125BW1	RZQ200CY1	RZQ250CY1
Dimensions	HxWxD		mm	1,170x900x320	1,345x900x320	1,345x900x320	1,680x930x765	
Weight			kg	103	109	106	183	184
Casing colour				Ivory White	Ivory White	Ivory white	Daikin white	Daikin white
Sound pressure level (night quiet mode)	cooling	H	dB(A)	51 (45)	51 (45)	50 (45)	57	57
	heating	H	dB(A)	53	53	52	-	-
Sound power level	cooling	H	dB(A)	67	67	66	78	78
Compressor			type	Hermetically sealed scroll				
Refrigerant type				R-410A				
Refrigerant charge			kg/m	3.70	3.95	4.30	8.30	9.3
Max. piping length			m	50 (equivalent length 70)	75 (equivalent length 95)	75 (equivalent length 95)	100	100
Max. level difference			m	30	30	30	30	30
Operation range	cooling	from ~ to	°CDB	-5~46	-15~50	-15~50	-5~46	-5~46
	heating	from ~ to	°CWB	-15~15.5	-20~15.5	-20~15.5	-15~15	-15~15

- Information was not available at time of publication.



ACCESSORIES: CONTROL SYSTEMS

INDOOR UNITS	FDQ125B	FDQ200B	FDQ250B
Wired remote control		BRC1D52	
Central remote control		DCS302C51	
Unified ON/OFF control		DCS301B51	
Schedule timer		DST301B51	
Remote ON/OFF, forced OFF		EKRORO	

ACCESSORIES: INDOOR UNITS

INDOOR UNITS	FDQ125B	FDQ200B	FDQ250B
Wiring adapter for electrical appendices		KRP4A51	
Adapter for wiring (interlock for fresh air intake)		KRP1B54	
Interface adapter for Sky Air series		DTA112B51	
Option PCB for ext. electrical heater, humidifier and/or hour meter*		EKRP1B2	

* Electrical heater, humidifier and hour meter are field supplied. These parts should not be installed inside the unit.

ACCESSORIES: OUTDOOR UNITS

OUTDOOR UNITS	RZQ125DV1 / BW1 / RZQS125DV1	RZQ200CY1	RZQ250CY1
Central drain plug	EKDK04		KWC26B280
Refrigerant branch piping	for twin	KHRQ22M20TA	
Demand adapter kit		KRP58M51	

- Notes:
- (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 • equivalent 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 • equivalent 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) The external static pressure is changeable: change the connectors inside the electrical box, this pressure means "high static pressure - standard - low static pressure".
 - (6) The external static pressure is changeable: change the connectors inside the electrical box, this pressure means "high static pressure - standard".
 - (7) Units should be selected on nominal capacity. Max. capacity is limited to peak periods.
 - (8) 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).
 - (9) 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.



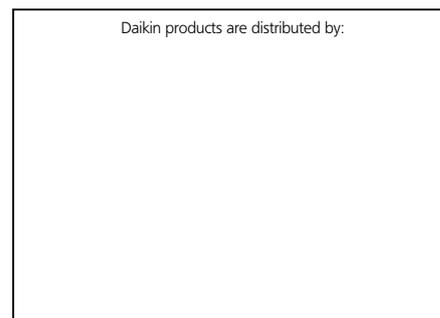
Daikin units comply with the European regulations that guarantee the safety of the product.



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.

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