

Air Conditioners

Heating & Cooling

Sky/ir*

- » Energy label:
 Up to class A
- » Heat pump system
- » Seasonal inverter technology
- » Flexible duct system for large areas
- » Neatly concealed in the ceiling
- » A uniform temperature distribution





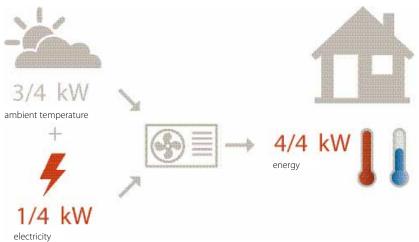


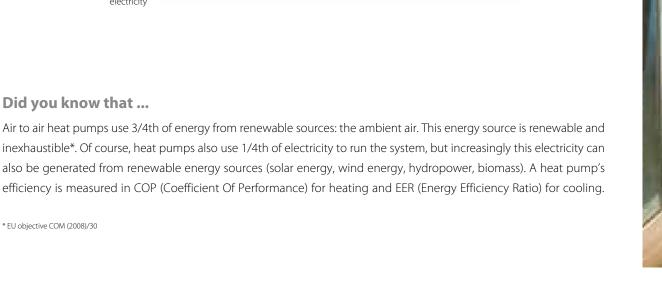
The most advanced climate control for Large Spaces

The quality air conditoning 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.

Combining highest efficiency and year-round comfort with a heat pump system







Seasonal Inverter

In line with technological advancements and stricter environmental legislation, Daikin Europe N.V. is committed to leading the way in energy-efficient residential and commercial cooling solutions. A good example of this is Daikin's Sky Air® Seasonal Inverter, the first on the market to anticipate Europe's new stricter environmental requirements.

A bit of background: Europe has set aggressive targets for energy efficiency and environmental impact to be reached by 2020. In line with these goals, more accurate measurement of the real-life energy efficiency of systems will also be required from 2013.

This improved efficiency rating, referred to as 'seasonal efficiency' or SEER, measures actual energy consumption over an entire heating or cooling season. This means that it takes into account different outdoor temperatures and the resulting required capacities.

Daikin Europe N.V. is leading the way with its Sky Air® Seasonal Inverter line. These light commercial air conditioning units are the first on the market to anticipate the more accurate seasonal efficiency criteria that will apply after 2013.

Because of the optimized inverter control, the Sky Air® Seasonal Inverter performs better across the entire range of outdoor temperatures. Next to this, the auxiliary modes have been redesigned in order to reduce energy consumption when the unit is not operating (e.g. standby mode).

The result: up to 20% better seasonal efficiency than the current Sky Air® Super Inverter in real-life situations, and more than 50% compared to non-inverter systems.



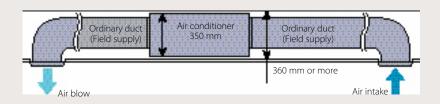


Built-in satellite model FDQ-B: for a uniform temperature distribution

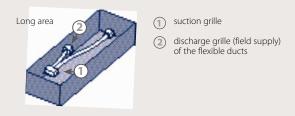
Built-in satellite units are mounted in the space between the ceiling and the lowered ceiling, leaving only the intake and grills showing. Since these grills can be placed anywhere, the temperature can be distributed evenly in large rooms and in rooms with partitions. The built-in satellite units are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

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 44dBA, comparable to refrigerator humming or a quiet conversation.

> Adjustable fan speed

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

> Air filter

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

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

Super complete Remote Control

> The newly developed wired remote control BRC1E51A (optional) has a modern design in pure white (RAL 9010). Large buttons and arrow keys as well as the given explanation for each setting on the display, makes the remote control easy to operate.

A holiday setting, home leave operation, and an improved weekly timer are included. The wired remote control is available in following languages: English, German, French, Spanish, Italian, Portuguese, Greek, Dutch, Russian and Turkish.

> 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.

> 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.

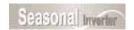


Wired remote control BRC1E51A (optional)

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).





Heating & Cooling

INDOOR UNITS				FDQ125B	FDQ125B	FDQ200B	FDQ250B	
C	cooling	nom.	kW	12.5 ³	5 ³	20.0 ³	24.1 ³	
Capacity	heating	ng nom.		14.04		23.0 4	26.4 4	
D	cooling	nom.	kW	3.96	4.15	6.23	8.58	
Power input	heating	nom.	kW	3.61	3.69	6.74	8.22	
EER				3.16	3.01	3.21	2.81	
ESEER				3.50	3.39	-	-	
COP				3.88	3.79	3.41	3.21	
Energy label	cooling/heating]		B/A	B/A	A/B	C/C	
Annual energy cor	sumption		kWh	1,978	2,075	3,115	4,290	
Dimensions	unit	heightxwidthxdepth	mm	350x1,4	00x662	450x1,400x900		
Weight	unit		kg	59	59.0		94	
<u> </u>	colour			Unpainted		Unpainted		
Casing	material			Galvanised steel		Material Galvanised steel		
F	cooling	nom.	m³/min	4	3	69	89	
Fan - Air flow rate	heating	nom.	m³/min	4	3	69	89	
Fan - External stati	c pressure	high/nom./low	Pa	150/15	50/150	250/250/250		
Sound pressure	cooling	high	dBA	4	44		47	
level	heating	low	dBA	44		45	47	
Sound power level	cooling	nom.	dBA	7	5	81	82	
Power supply	phase/frequency/voltage Hz/V		1~/50	0/230	1~/50/230			
connections	liquid	OD	mm	ø 9	.52	ø 9.52	ø 12.7	
	gas	OD	mm	ø 15.9		ø 22.2		
	drain OD		mm	ø 26			-	

(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). (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent refrigerant piping length: 5m; level difference: 0m. (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m. (5) The sound power level is an absolute value indicating the power which a sound source generates. (6) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.



OUTDOOR UNITS					RZQ125D9V1	RZQ125B9W1	RZQ200CY	RZQ250CY
Dimensions	unit	heightxwi	idthxdepth	mm	1,345x900x320		1,680x930x765	
Weight	unit			kg	109	106	183	184
0	cooling	ambient min.~max.		°CDB	-15~50		-5~46	
Operation range	heating	ambient min.~max.		°CWB	-20~15.5		-15~15	
	cooling	nom.		dBA	51	50	57	
Sound pressure level	heating	nom.		dBA	53	52	57	
ievei	night quiet mode	level 1		dBA	45		-	
Sound power level	cooling	nom.		dBA	67	66	-	78
Compressor typ				type	Hermetically sealed scroll			
Refrigerant type					R-41	0A		
Power supply	phase/frequency	se/frequency/voltage		Hz/V	1~/50/220-240 3N~/50/400		3N~/50/380-415	
Piping connections	additional refrigerant charge			kg/m	See installation manual		-	-
	IU - OU max.		max.	m	30		-	-
	level difference	IU - IU	max.	m	0.5	i	-	-
	piping length	system equivalent		m	75		100	



Heating & Cooling

INDOOR UNITS				FDQ125B
Compositor	cooling	nom.	kW	12.5 ³
Capacity	heating	nom.	kW	14.0 ⁴
Power input	cooling	nom.	kW	4.30
rowei iliput	heating	nom.	kW	3.97
EER				2.91
COP				3.53
Energy label	cooling/heating	I		2,148
Annual energy con	sumption		kWh	С/В
Dimensions	unit	heightxwidthxdepth	mm	350x1,400x662
Weight	unit		kg	59
Casing	colour			Unpainted
Casing	material			Galvanised steel
Fan - Air flow rate	cooling	nom.	m³/min	43
raii - Aii ilow fate	heating	nom.	m³/min	43
Fan - External station	c pressure	high/nom./low	Pa	150/150/150
Sound pressure	cooling	high	dBA	44
level	heating	low	dBA	44
Sound power level	cooling	nom.	dBA	75
Power supply	phase/frequency/voltage Hz/V		Hz/V	1~/50/230
· · · · · ·	liquid	OD	mm	ø9.52
	gas	OD	mm	ø15.9
	drain	OD	mm	ø26

(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). (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent refrigerant piping. 5m; level difference: 0m. (4) Heating: indoor temp. 20°CDB, outdoor temp. 20°CDB; outdoor temp. 20°CDB; equivalent refrigerant piping. 5m; level difference: 0m. (5) The sound power level is an absolute value indicating the power which a sound source generates. (6) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings.

OUTDOOR UNITS					RZQS100D7V1		
Dimensions	unit	heightxwidthxdepth		mm	1,170x900x320		
Weight	unit			kg	103		
	cooling	ambient	min.~max.	°CDB	-5.0~46		
Operation range	heating	ambient	min.~max.	°CWB	-15~15.5		
c 1	cooling	nom.		dBA	51		
Sound pressure level	heating	nom.		dBA	55		
ievei	night quiet mod	e		dBA	49		
Sound power level cooling nom.		dBA	67				
Compressor type				type	Hermetically sealed scroll		
Refrigerant typ				type	R-410A		
Power supply	supply phase/frequency/voltage			Hz/V	1~/50/220-240		
	additional refrig	additional refrigerant charge		kg/m	See installation manual		
Piping connections	level difference	IU - OU	max.	m	30		
		IU - IU	max.	m	0.5		
	total piping	system	actual	m	70		



Heating & Cooling

INDOOR UNITS				FDQ125B		
Cooling capacity	nom.		kW/Btu/h/kcal/h	12.5 ³		
Heating capacity	nom.		kW/Btu/h/kcal/h	14.6 4		
Power input	cooling	nom.	kW	4.79		
rower input	heating	nom.	kW	4.51		
EER				2.61		
COP				3.24		
Annual energy con	sumption		kWh	2,395		
Energy label	cooling/heating			D/C		
Dimensions	unit	heightxwidthxdepth	mm	350x1,400x662		
Weight	unit		kg	59.0		
Casing	colour			Unpainted		
Casing	material			Galvanised steel		
Fan-Air flow rate	cooling	nom.	m³/min	43.0		
Tall-All flow fate	heating	nom.	m³/min	43.0		
Fan-External static pressure	high/nom./low		Pa	150/150/150		
Sound pressure	cooling	high	dBA	44.0		
level	heating	low	dBA	44.0		
Sound power level	cooling	nom.	dBA	75.0		
Power supply	phase/frequency	//voltage	Hz/V	1~/50/230		
Dinin	liquid	OD	mm	ø 9.52		
Piping connections	gas	OD	mm	ø 15.9		
Connections	drain	OD	mm	ø 26		

OUTDOOR UNITS					RQ125BW1
Dimensions	unit	heightxwidthxdepth		mm	1,170x900x320
Weight	unit			kg	108
	cooling	ambient	min.~max.	°CDB	-5~46
Operation range	heating	ambient	min.~max.	°CWB	-10~15
Sound pressure level	cooling	nom.		dBA	53
Sound power level	cooling	nom.		dBA	67
Compressor	type				Hermetically sealed scroll compressor
Refrigerant	type				R-410A
Power supply	phase/frequency/voltage Hz			Hz/V	3N~/50/400
	piping length	max.	OU - IU	m	70
Piping connections	additional refrig	erant char	ge	kg/m	-
	level difference	IU - OU	U - OU max. m		30
		IU - IU	max.	m	0.5

⁽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) (3) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m; level difference: 0m (4) Heating: indoor temp. 20°CDB; outdoor temp. 2



Indoor unit FDQ200-250B



Wired remote control BRC1E51A



Outdoor unit RZQ200-250CY



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.







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