

Air Conditioners

# Heating & Cooling

**SkyAir®**

- » **Energy label:  
Up to class A**
- » **Heat pump system**
- » **Seasonal efficiency,  
optimized  
for all seasons**
- » **Ideal for spaces  
without a false ceiling**
- » **Different air flow  
patterns for even more  
comfort**

4-Way Blow Ceiling Suspended Cassette



[www.daikin.eu](http://www.daikin.eu)



FUQ-B

## Made by Daikin: world-famous for efficiency

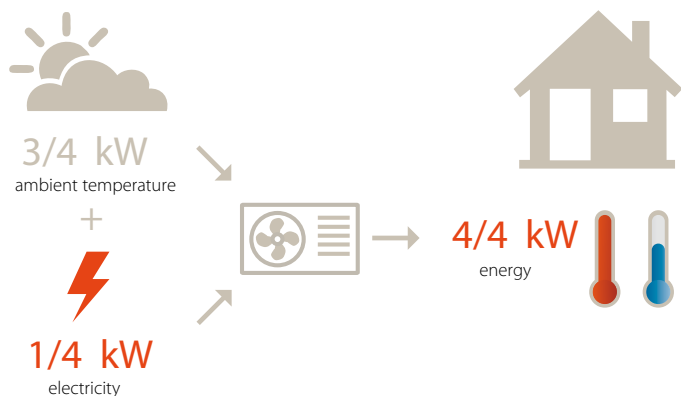
By purchasing a Daikin heat pump, you are taking the right step towards a comfortable indoor climate today. Advanced climate systems in modern office buildings, shops, hotels and restaurants are not a luxury anymore.

That is logical, because the whisper-quiet Daikin heat pumps 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, but also customers who spend more time in your business and gladly come back.

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



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



### Did you know that ...

Air-to-air heat pumps obtain 75% of their output energy from renewable sources: the ambient air, which is both renewable and inexhaustible\*. Of course, heat pumps also require electricity to run the system, but increasingly this electricity can also be generated from renewable energy sources (solar energy, wind energy, hydropower, biomass). A heat pump's efficiency is measured in COP (Coefficient Of Performance) for heating and EER (Energy Efficiency Ratio) for cooling.

\* EU objective COM (2008)/30



## Seasonal efficiency, optimized for all seasons

Taking into account technological advances and stricter environmental legislation, Daikin Europe N.V. is the market leader in energy-efficient residential and commercial cooling solutions. A good example of this is Daikin's Sky Air® Seasonal Inverter which was developed for light commercial applications in which seasonal efficiency is very important. The Sky Air® Seasonal Inverter is first on the market to anticipate Europe's new stricter environmental requirements.

Europe has set challenging environmental targets for 2020 and this requires greater accuracy in measuring the 'real life' energy efficiency rating of heating and cooling systems. This new measurement regime, called the 'seasonal efficiency' or SEER (Seasonal Energy Efficiency Ratio), becomes mandatory from 2013 and it measures performance across the entire heating and cooling season, rather than selecting a fixed point (EER), and takes into account different outdoor temperatures and the resulting energy usage required.

Because of our new optimized inverter control technology,

the Sky Air® Seasonal Inverter performs better across the entire range of outdoor temperatures. In addition, the auxiliary modes have been redesigned in order to reduce energy consumption when the unit is in standby mode. The result is up to 20% better 'seasonal efficiency' than the current Sky Air® Super Inverter and Comfort Inverter, also even more than 50% better compared to non inverter systems.

As the market leaders in integrating tomorrow's Eco-Design principles today, Daikin is the first manufacturer to publish the SEERs for its residential and light commercial installations.



Seasonal Inverter

## The perfect system for spaces without a false ceiling

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:

#### > **Auto swing:**

The vertical auto swing 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:**

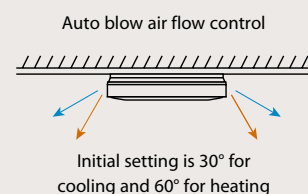
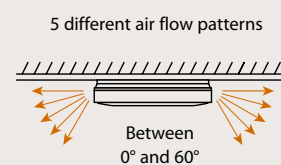
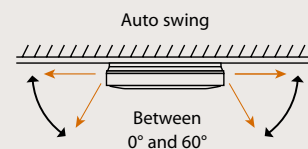
The last selected air flow pattern is memorized and automatically reset the next time the unit is turned ON. Initial setting is 30° for cooling and 60° for heating.

#### > **Draught prevention (heating mode):**

This setting ensures that when using heating, horizontal air flow is automatically switched to, preventing draughts.

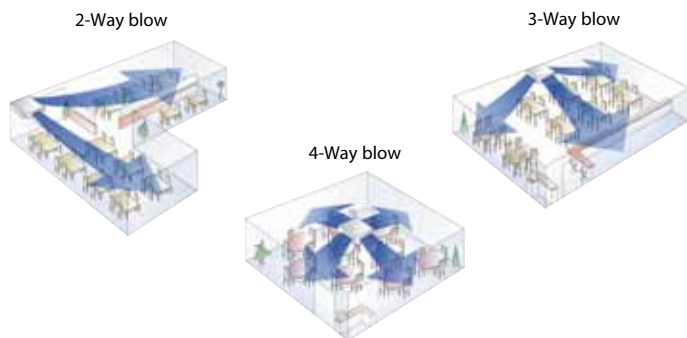
### > **Air filter**

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



## Flexible installation, Simple 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.



- > 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 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.

- > 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 BRC7A528W (optional)



Wired remote control BRC1E51A (optional)

## Possible 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).

# Heating & Cooling

Seasonal Inverter

INDOOR UNIT				FUQ71B	FUQ100B	FUQ125B
Cooling capacity	Nom.		kW	7.1 <sup>3</sup>	10.0 <sup>3</sup>	12.5 <sup>3</sup>
Heating capacity	Nom.		kW	8.0 <sup>4</sup>	11.2 <sup>4</sup>	14.0 <sup>4</sup>
Power input	Cooling	Nom.	kW	2.21	2.97	3.96
	Heating	Nom.	kW	2.34	3.31	4.26
EER				3.21	3.37	3.16
COP				3.42	3.38	3.29
SEER				3.57	3.21	3.50
Annual energy consumption			kWh	1,105	1,484	1,978
Energy label	Cooling/Heating			A/B	A/C	B/C
Casing	Colour				White	
Dimensions	Unit	HeightxWidthxDepth	mm	165x895x895		230x895x895
Weight	Unit		kg	25.0		31.0
Fan - Air flow rate	Cooling	High/Low	m <sup>3</sup> /min	19.0/14.0	29.0/21.0	32.0/23.0
	Heating	High/Low	m <sup>3</sup> /min	19.0/14.0	29.0/21.0	32.0/23.0
Sound power level	Cooling	High/Low	dBA	56/51.0	59.0/54.0	60/55
	Heating	High/Low	dBA	56/51	59.0/54.0	60/55
Sound pressure level	Cooling	High/Low	dBA	40/35	43.0/38.0	44/39
	Heating	High/Low	dBA	40/35	43.0/38.0	44/39
Refrigerant	Type				R-410A	
Piping connections	Liquid	OD	mm		9.52	
	Gas	OD	mm		15.9	
	Drain	OD	mm		26	
Power supply	Phase / Frequency / Voltage		Hz / V		1~ / 50 / 220-240	

(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: 5m; level difference: 0m (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m; level difference: 0m

OUTDOOR UNIT				RZQ71D9V1	RZQ100D9V1	RZQ125D9V1
Dimensions	Unit	HeightxWidthxDepth	mm	770x900x320		1,345x900x320
Weight	Unit		kg	67		109
Fan - Air flow rate	Cooling	Nom.	m <sup>3</sup> /min	52 <sup>1</sup>	96 <sup>1</sup>	100 <sup>1</sup>
	Heating	Nom.	m <sup>3</sup> /min	48 <sup>1</sup>		90 <sup>1</sup>
Sound power level	Cooling	Nom.	dBA	64	65	67
Sound pressure level	Cooling	Nom.	dBA	48	50	51
	Heating	Nom.	dBA	50	52	53
	Night quiet mode	Level 1	dBA	43		45
Operation range	Cooling	Ambient	Min.-Max.	°CDB	-15.0~-50.0	
	Heating	Ambient	Min.-Max.	°CWB	-20.0~-15.5	
Refrigerant	Type				R-410A	
Piping connections	Piping length	Max.	OU - IU	m	50	75
	Level difference	IU - OU	Max.	m		30.0
		IU - IU	Max.	m		0.5
	Heat insulation					Both liquid and gas pipes
Total piping length	System	Actual	m		-	
	Phase / Frequency / Voltage		Hz / V		1~ / 50 / 220-240	

(1) 230V



INDOOR UNIT				FUQ100B	FUQ125B
Cooling capacity	Nom.		kW	10.00 <sup>3</sup>	12.50 <sup>3</sup>
Heating capacity	Nom.		kW	11.20 <sup>4</sup>	14.00 <sup>4</sup>
Power input	Cooling	Nom.	kW	3.120	4.050
	Heating	Nom.	kW	3.280	4.360
EER				3.21	3.09
COP				3.41	3.21
SEER				3.08	3.45
Annual energy consumption			kWh	1,560	2,025
Energy label	Cooling/Heating			A/B	B/C
Casing	Colour			White	
Dimensions	Unit	HeightxWidthxDepth	mm	230x895x895	
Weight	Unit		kg	31.0	
Fan - Air flow rate	Cooling	High/Low	m <sup>3</sup> /min	29.0/21.0	32.0/23.0
	Heating	High/Low	m <sup>3</sup> /min	29.0/21.0	32.0/23.0
Sound power level	Cooling	High/Low	dBA	59.0/54.0	60/55
	Heating	High/Low	dBA	59.0/54.0	60/55
Sound pressure level	Cooling	High/Low	dBA	43.0/38.0	44/39
	Heating	High/Low	dBA	43.0/38.0	44/39
Refrigerant	Type			R-410A	
Piping connections	Liquid	OD	mm	9.52	
	Gas	OD	mm	15.9	
	Drain	OD	mm	26	
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240	

(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. 7°CDB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m (5) SEER: Pr-EN14825 - inquiry version 2010

OUTDOOR UNIT				RZQ100B9W1	RZQ125B9W1
Dimensions	Unit	HeightxWidthxDepth	mm	1,345x900x320	
Weight	Unit		kg	106	
Fan - Air flow rate	Cooling	Nom.	m <sup>3</sup> /min	103.0 <sup>1</sup>	99.0 <sup>1</sup>
	Heating	Nom.	m <sup>3</sup> /min	101.0 <sup>1</sup>	100.0 <sup>1</sup>
Sound power level	Cooling	Nom.	dBA	65.0	66.0
Sound pressure level	Cooling	Nom.	dBA	49.0	50.0
	Heating	Nom.	dBA	51.0	52.0
	Night quiet mode	Level 1	dBA	45	
Operation range	Cooling	Ambient	Min.-Max. °CDB	-15.0~-50.0	
	Heating	Ambient	Min.-Max. °CWB	-20.0~-15.5	
Refrigerant	Type			R-410A	
Piping connections	Piping length	Max.	OU - IU	75	
	Level difference	IU - OU	Max.	30.0	
		IU - IU	Max.	0.5	
	Heat insulation			Both liquid and gas pipes	
Total piping length	System	Actual	m	-	
				-	
Power supply	Phase / Frequency / Voltage		Hz / V	3N~ / 50 / 400	

(1) 230V



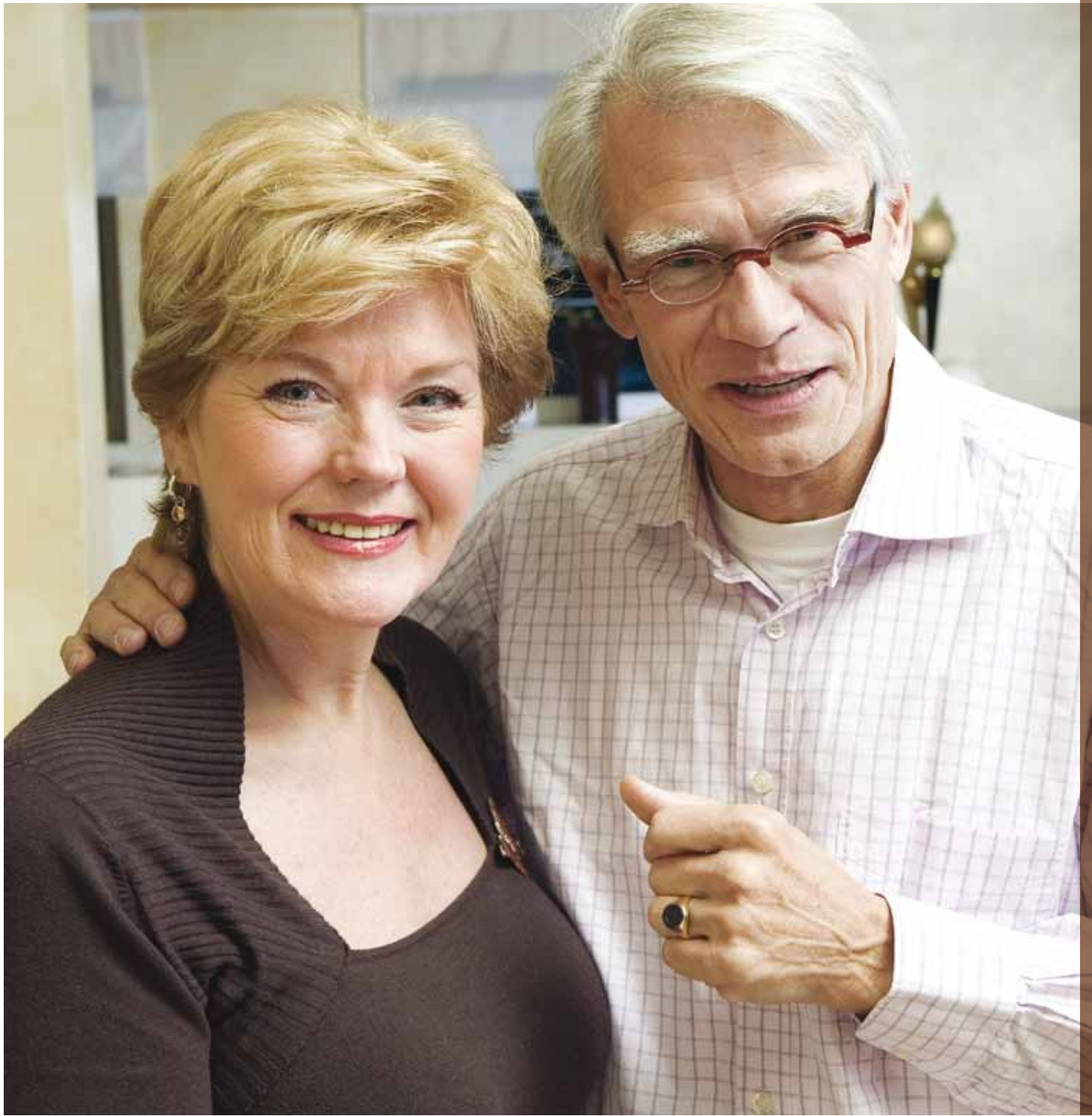
Indoor unit  
FUQ-B



Wired (BRC1E51A) and  
infrared remote control (BRC7A528W)



Outdoor unit  
RZQ100-125D9V1/B9W1



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



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