



Air Conditioners

Heating & Cooling

SkyAir®

- » **Energy label:
Up to class A**
- » **Heat pump system**
- » **Seasonal efficiency,
optimized
for all seasons**
- » **5 different discharge
angles possible**
- » **Can be installed in
both new & existing
buildings**

Wall Mounted Unit



www.daikin.eu



FAQ-B

The most reliable air conditioners

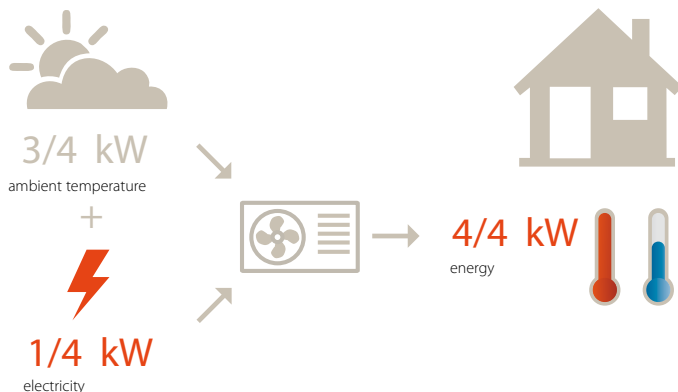
No shop, business, restaurant or hotel can go without adequate climate control these days. Research has shown that proper climate control contributes to the comfort of your customers and staff.

For the professional market, the choice of systems and models is nearly infinite. You can choose from either heat or cool with the same system. These heat pump systems render central heating unnecessary and ensure lower heating costs while providing the cooling needed on warmer days.

Wall mounted units create a comfortable indoor climate with a temperature and air humidity where everyone feels nice and comfortable, without draught and noise.



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

Space-saving wall mounted unit

The FAQ-B wall mounted unit by Daikin is slim and stylish in materials, shape and colour. It can be installed on all types of walls, and leaves enough space free for furnishings, equipment and decorative accessories. The automatic air flow regulator provides for a uniform air flow and temperature distribution by moving the flaps vertically and/or horizontally (manually).

Unique comfort functions for a healthy indoor climate

> To maximize your comfort, you are able to select several **air flow patterns** from your remote control:

» **Auto swing**

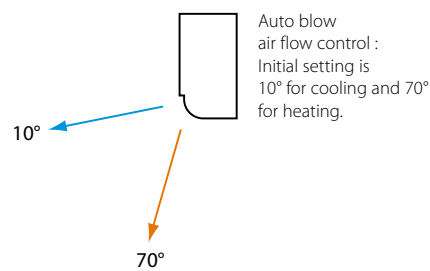
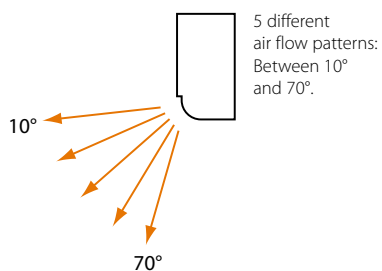
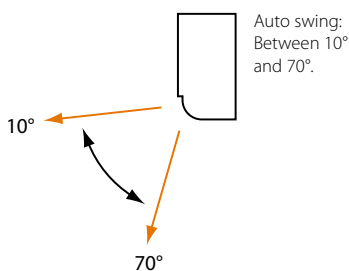
Vertical auto swing automatically moves the flaps up and down to distribute air effectively throughout the whole room. When the air conditioning is turned off, the flaps shut automatically, so that dust cannot enter.

» **5 different air flow patterns**

All five different air flow patterns between 10° and 70° can be freely selected. The chosen air flow pattern will be maintained during the operation of the air conditioning.

> **Automatic air flow control**

The last selected air flow pattern is memorized and automatically set the next time the unit is turned ON after having the initial setting for a short period of time. Initial setting is 10° for cooling and 70° for heating.

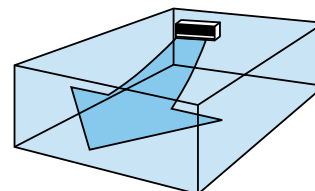


> **Wide angle louvers**

The wall mounted unit gives you the same comfortable feeling everywhere, its wide angle louvers deliver air about 10% faster. Long narrow rooms can easily be heated or cooled regardless where the unit is located in the room.

> **Air filter**

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





Flexible installation, simple maintenance

- > All maintenance work is carried out at the front of the **indoor unit**. The horizontal flaps and front panel are very easy to remove and clean.
- > The **outdoor** unit can be installed on the roof, terrace or against an outside wall.

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 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 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.



Infrared remote control (Optional)



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), **twin or triple application** (connecting up to 3 indoors in the same room to a single outdoor).

Heating & Cooling

Seasonal Inverter

INDOOR UNIT				FAQ71B	FAQ100B	FAQ100B
Cooling capacity	Nom.		kW	7.1 ³	10.0 ³	10.00 ³
Heating capacity	Nom.		kW	8.0 ⁴	11.2 ⁴	11.20 ⁴
Power input	Cooling	Nom.	kW	2.28	3.29	2.780
	Heating	Nom.	kW	2.33	3.21	3.390
EER				3.11	3.04	3.60
COP				3.43	3.49	3.30
SEER				3.48	2.94	3.42
Annual energy consumption			kWh	1,141	1,645	1,390
Energy label	Cooling/Heating				B/B	A/C
Casing	Colour				White	White
Dimensions	Unit	HeightxWidthxDepth	mm	290x1,050x230	360x1,570x200	360x1,570x200
Weight	Unit		kg	13.0	26.0	26.0
Fan - Air flow rate	Cooling	High/Low	m ³ /min	19.0/15.0	23.0/19.0	23.0/19.0
	Heating	High/Low	m ³ /min	19.0/15.0	23.0/19.0	23.0/19.0
Sound power level	Cooling	High/Low	dBA	59.0/53.0	61.0/57.0	61.0/57.0
	Heating	High/Low	dBA	59.0/53.0	61.0/57.0	61.0/57.0
Sound pressure level	Cooling	High/Low	dBA	43.0/37.0	45.0/41.0	45.0/41.0
	Heating	High/Low	dBA	43.0/37.0	45.0/41.0	45.0/41.0
Refrigerant	Type			R-410A	R-410A	
Piping connections	Liquid	OD	mm	9.52	9.52	
	Gas	OD	mm	15.9	15.9	
	Drain	OD	mm	26	26	
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240	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 (6) The sound power level is an absolute value indicating the power which a sound source generates. (7) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. (8) The sound pressure level is measured via a microphone at 1m distance of the unit.

OUTDOOR UNIT				RZQ71D3V1	RZQ100D9V1	RZQ100B9W1
Dimensions	Unit	HeightxWidthxDepth	mm	770x900x320	1,345x900x320	1,345x900x320
Weight	Unit		kg	67	109	106
Fan - Air flow rate	Cooling	Nom.	m ³ /min	52 ¹	96 ¹	103.0 ¹
	Heating	Nom.	m ³ /min	48 ¹	90 ¹	101.0 ¹
Sound power level	Cooling	Nom.	dBA	64	65	65.0
Sound pressure level	Cooling	Nom.	dBA	48	50	49.0
	Heating	Nom.	dBA	50	52	51.0
	Night quiet mode	Level 1	dBA	43	45	45
Operation range	Cooling	Ambient	Min.~Max. °CDB	-15.0~-50.0		-15.0~-50.0
	Heating	Ambient	Min.~Max. °CWB	-20.0~-15.5		-20.0~-15.5
Refrigerant	Type			R-410A	R-410A	
Piping connections	Piping length	Max.	OU - IU	m	50	75
	Level difference	IU - OU	Max.	m	30.0	30.0
		IU - IU	Max.	m	0.5	0.5
	Heat insulation				Both liquid and gas pipes	Both liquid and gas pipes
Total piping length	System	Actual	m	-	-	
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240	3N~ / 50 / 400	

(1) 230V



Heating & Cooling



INDOOR UNIT				FAQ71B	FAQ100B
Cooling capacity	Nom.		kW	7.1 ³	10.0 ³
Heating capacity	Nom.		kW	8.0 ⁴	11.2 ⁴
Power input	Cooling	Nom.	kW	2.44	3.56
	Heating	Nom.	kW	2.49	3.49
EER				2.91	2.81
COP					3.21
Annual energy consumption			kWh	1,220	1,779
Energy label	Cooling/Heating				C/C
Casing	Colour				White
Dimensions	Unit	HeightxWidthxDepth	mm	290x1,050x230	360x1,570x200
Weight	Unit		kg	13.0	26.0
Fan - Air flow rate	Cooling	High/Low	m ³ /min	19.0/15.0	23.0/19.0
	Heating	High/Low	m ³ /min	19.0/15.0	23.0/19.0
Sound power level	Cooling	High/Low	dBA	59.0/53.0	61.0/57.0
	Heating	High/Low	dBA	59.0/53.0	61.0/57.0
Sound pressure level	Cooling	High/Low	dBA	43.0/37.0	45.0/41.0
	Heating	High/Low	dBA	43.0/37.0	45.0/41.0
Refrigerant	Type			R-410A	
Piping connections	Drain	OD	mm	18	26
	Liquid	OD	mm		9.52
	Gas	OD	mm		15.9
Power supply	Phase / Frequency / Voltage			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				RZQS71DV1	RZQS100DV1
Dimensions	Unit	HeightxWidthxDepth	mm	770x900x320	1,170x900x320
Weight	Unit		kg	68	103
Fan - Air flow rate	Cooling	Nom.	m ³ /min	52	96
	Heating	Nom.	m ³ /min	48	90
Sound power level	Cooling	Nom.	dBA	65	67
Sound pressure level	Cooling	Nom.	dBA	49	51
	Heating	Nom.	dBA	51	55
	Night quiet mode	Level 1	dBA	47	49
Operation range	Cooling	Ambient	Min.~Max. °CDB	-5.0~46	
	Heating	Ambient	Min.~Max. °CWB	-15~15.5	
Refrigerant	Type			R-410A	
Piping connections	Piping length	Max.	OU - IU	30	50
	Level difference	IU - OU	Max.	15	30
		IU - IU	Max.		0.5
	Heat insulation	Total piping length/System Actual			Both liquid and gas pipes
Power supply	Phase / Frequency / Voltage			1~ / 50 / 220-240	



Indoor unit
FAQ71B



Wired remote control
BRC1E51A



Outdoor unit
RZQ71D3V1



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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