



Air Conditioners

Heating & Cooling

SkyAir®

Wall Mounted Unit

- » **Energy label:
Up to class A**
- » **Heat pump system**
- » **Seasonal inverter
technology**
- » **5 different discharge
angles possible**
- » **Can be installed in
both new & existing
buildings**



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FAQ-B

The most reliable air conditioners

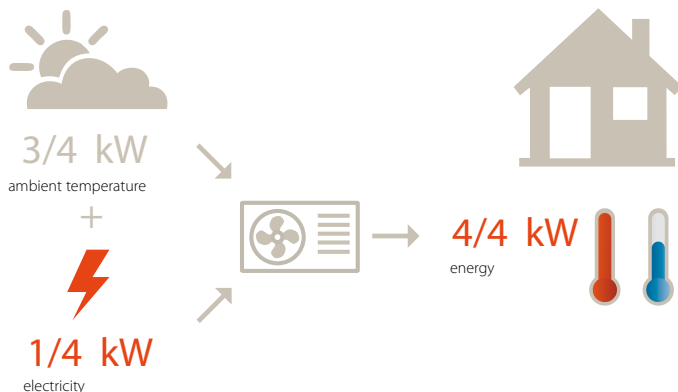
No shop, business, restaurant or hotel can go without adequate climate control these days. Research has shown that proper climate control contributes to the comfort of your customers and staff.

For the professional market, the choice of systems and models is nearly infinite. You can choose from systems with a heat pump and air conditioners that only cool. 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 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 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 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.

Seasonal Inverter



*EPB (Energy Performance of Buildings) Directive 2002/91/EC, EuP (Energy Using Products) Eco-Design Directive

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 airflow 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**

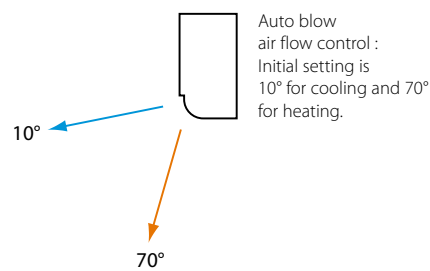
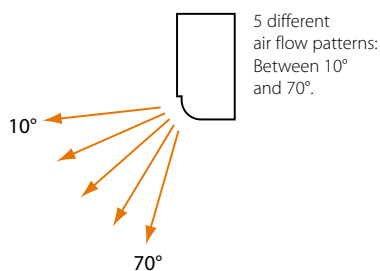
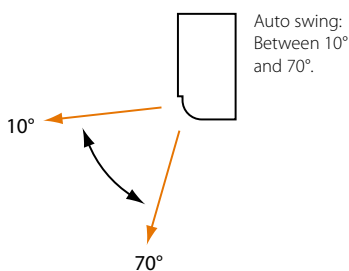
Vertical auto swing automatically moves the flaps up and down to distribute air effectively throughout the whole room. When the air conditioning is turned off, the flaps shut automatically, so that dust cannot enter.

» **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.

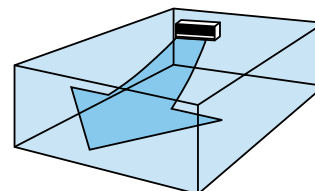


> **Wide angle louvers**

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 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.



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 UNITS				FAQ71B	FAQ100B	FAQ100B
Capacity	cooling	nom.	kW	7.1 ³	10.0 ³	10.00 ³
	heating	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
ESEER				3.48	2.94	3.42
COP				3.43	3.49	3.30
Energy label	cooling/heating			B/B		A/C
Annual energy consumption				1,141	1,645	1,390
Dimensions	unit	heightxwidthxdepth	mm	290x1,050x230		360x1,570x200
Weight	unit			13.0	26.0	
Casing	colour			White		
	material			Resin		
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 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
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
Power supply	phase/frequency/voltage		Hz/V	1~/50/220-240		
Piping connections	liquid	OD	mm	ø 9.52		
	gas	OD	mm	ø15.9		
	drain	OD	mm	ø26		

OUTDOOR UNITS				RZQ71D3V1	RZQ100D9V1	RZQ100B9W1
Dimensions	unit	heightxwidthxdepth	mm	770x900x320	1,345x900x320	
Weight	unit			67	109	106
Operation range	cooling	ambient	min.-max. °CDB	-15.0~-50.0		
	heating	ambient	min.-max. °CWB	-20.0~-15.5		
Sound pressure level	cooling	nom.	dBA	48	50	49
	heating	nom.	dBA	50	52	51
Sound power level	night quiet mode		dBA	43	45	
	cooling	nom.	dBA	64	65	
Compressor			type	Hermetically sealed swing	Hermetically sealed scroll	
Refrigerant			type	R-410A		
Power supply	phase/frequency/voltage		Hz/V	1~/50/220-240		3N~/50/400
Piping connections	additional refrigerant charge		kg/m	See installation manual		
	level difference	IU - OU	max. m	30		
		IU - IU	max. m	0.5		
	piping length	system	equivalent m	70	95	



INDOOR UNITS				FAQ71B	FAQ100B
Capacity	cooling	nom.	kW	7.1 ³	10.0 ³
	heating	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	
SCOP					
Energy label	cooling/heating			C/C	
Annual energy consumption				1,220	1,779
Dimensions	unit	heightxwidthxdepth	mm	290x1,050x230	
Weight	unit			13.0	26.0
Casing	colour			White	
	material			Resin	
Fan - Air flow rate	cooling	high/low	m ³ /min	19.0/15.0	
	heating	high/low	m ³ /min	19.0/15.0	
Sound pressure level	cooling	high/low	dBA	43.0/37.0	
	heating	high/low	dBA	43.0/37.0	
Sound power level	cooling	high/low	dBA	59.0/53.0	
	heating	high/low	dBA	59.0/53.0	
Power supply	phase/frequency/voltage		Hz/V	1~/50/220-240	
Piping connections	liquid	OD	mm	ø9.52	
	gas	OD	mm	ø15.9	
	drain	OD	mm	ø26	

OUTDOOR UNITS				RZQS71DV1	RZQS100DV1
Dimensions	unit	heightxwidthxdepth	mm	770x900x320	1,170x900x320
Weight	unit			68	103
Operation range	cooling	ambient	min.-max. °CDB	-5.0~-46	
	heating	ambient	min.-max. °CWB	-15~-15.5	
Sound pressure level	cooling	nom.	dBA	49	51
	heating	nom.	dBA	51	55
Sound power level	night quiet mode		level 1 dBA	47	49
	cooling	nom.	dBA	65	67
Compressor			type	Hermetically sealed swing	Hermetically sealed scroll
Refrigerant			type	R-410A	
Power supply	phase/frequency/voltage		Hz/V	1~/50/220-240	
Piping connections	additional refrigerant charge		kg/m	See installation manual	
	level difference	IU - OU	max. m	15	30
		IU - IU	max. m	0.5	0.5
	piping length	system	equivalent m	40	70

(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 (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.

Heating & Cooling

INDOOR UNITS				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	2.65	3.56
	heating	nom.	kW	2.58	3.96
EER				2.68	2.81
COP				3.10	2.83
Annual energy consumption			kWh	1,325	1,780
Energy label	cooling/heating			D/D	C/D
Dimensions	unit	heightxwidthxdepth	mm	290x1,050x230	360x1,570x200
Weight	unit		kg	13.0	26.0
Casing	colour				White
	material				Resin
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 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
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
Power supply	phase/frequency/voltage		Hz/V	1~/50/220-240	
Piping connections	liquid	OD	mm	ø 9.52	
	gas	OD	mm	ø 15.9	
	drain	OD	mm	ø 26	

OUTDOOR UNITS				RQ71BV3	RQ100BV3
Dimensions	unit	heightxwidthxdepth	mm	770x900x320	1,170x900x320
Weight	unit		kg	84	103
Operation range	cooling	ambient	min.-max. °CDB	-5.0~46.0	
	heating	ambient	min.-max. °CWB	-10.0~15.0	
Sound pressure level	cooling	nom.	dBA	50.0	53.0
Sound power level	cooling	nom.	dBA	63.0	66.0
Compressor	type			Hermetically sealed scroll compressor	
Refrigerant	type			R-410A	
Power supply	phase/frequency/voltage		Hz/V	1~/50/230	
Piping connections	piping length	max.	OU - IU m	70	
	additional refrigerant charge		kg/m	-	
	level difference	IU - OU	max. m	30.0	
		IU - IU	max. m	0.5	

INDOOR UNITS				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	2.53	3.52
	heating	nom.	kW	2.49	3.82
EER				2.81	2.84
COP				3.21	2.93
Annual energy consumption			kWh	1,265	1,760
Energy label	cooling/heating			C/C	C/D
Dimensions	unit	heightxwidthxdepth	mm	290x1,050x230	360x1,570x200
Weight	unit		kg	13.0	26.0
Casing	colour				White
	material				Resin
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 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
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
Power supply	phase/frequency/voltage		Hz/V	1~/50/220-240	
Piping connections	liquid	OD	mm	ø9.52	
	gas	OD	mm	ø15.9	
	drain	OD	mm	ø26	

OUTDOOR UNITS				RQ71BW1	RQ100BW1
Dimensions	unit	heightxwidthxdepth	mm	770x900x320	1,170x900x320
Weight	unit		kg	83	101
Operation range	cooling	ambient	min.-max. °CDB	-5.0~46.0	
	heating	ambient	min.-max. °CWB	-10.0~15.0	
Sound pressure level	cooling	nom.	dBA	50.0	53.0
Sound power level	cooling	nom.	dBA	63.0	66.0
Compressor	type			Hermetically sealed scroll compressor	
Refrigerant	type			R-410A	
Power supply	phase/frequency/voltage		Hz/V	3N~/50/400	
Piping connections	piping length	max.	OU - IU m	70	
	additional refrigerant charge		kg/m	-	
	level difference	IU - OU	max. m	30.0	
		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) Heating: indoor temp. 20°CDB; outdoor temp. 7°CWB, 6°CWB; equivalent refrigerant piping: 7.5m; level difference: 0m (4) Cooling: indoor temp. 27°CDB, 19°CWB; outdoor temp. 35°CDB; equivalent piping length: 7.5m (horizontal); 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. (7) The sound pressure level is measured via a microphone at 1m distance of the unit.



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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