

Air Conditioners

Heating & Cooling

SkyAir®

- » **Energy label:
Up to class A**
- » **Heat pump system**
- » **Seasonal inverter
technology**
- » **The ideal solution
for larger rooms**
- » **Can be installed in
both new & existing
buildings**
- » **Wider air discharge:
Up to 100 degrees**

Ceiling Suspended Cassette



www.daikin.eu



FHQ-B

Perfect control over indoor climate and air flow

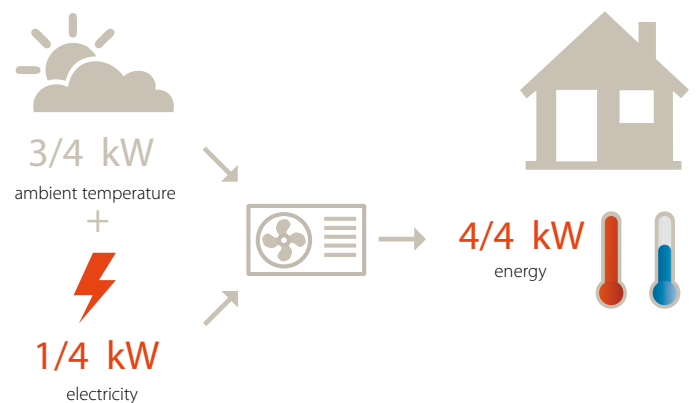
In a healthy indoor climate, with a comfortable temperature and air humidity, your staff and customers feel comfortable in their skin. In other words, employees who are more productive and who have fewer health problems. And customers who spend more time in your business and gladly come back.

In addition, there is the benefit that the Daikin heat pump systems - that heat and cool - can provide for a comfortable heat immediately. This type of heat pump is an affordable alternative to the traditional heating systems fueled by gas or oil.

As a leading manufacturer of heat pump systems for the retail 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 conditioners, also known as heat pumps, obtain 75% of their output 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, optimised 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, becomes mandatory from 2013 and it measures performance across the entire heating and cooling season, rather than selecting a fixed point, 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 more than 50% 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.

2013

ERP Directive (Eco-Design)



Today



Seasonal Inverter



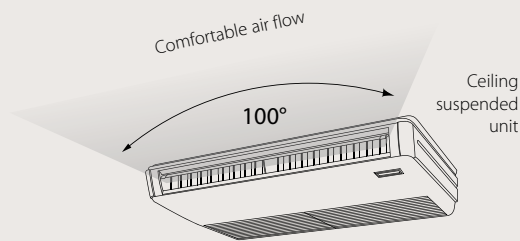
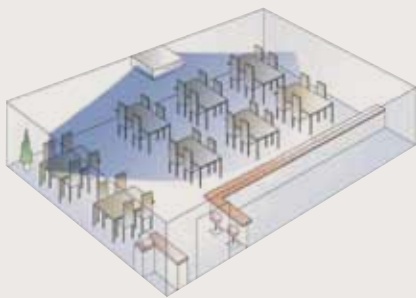
Large range for Large spaces

The ceiling suspended units by Daikin 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 FHQ-B indoor units are the obvious choice for large spaces thanks to their great range.

All comfort functions for a Healthy indoor climate

> Ceiling heights up to 3.8m:

Air flow distribution for ceiling heights up to 3.8m without loss of capacity.



> Air flow configuration of 100°

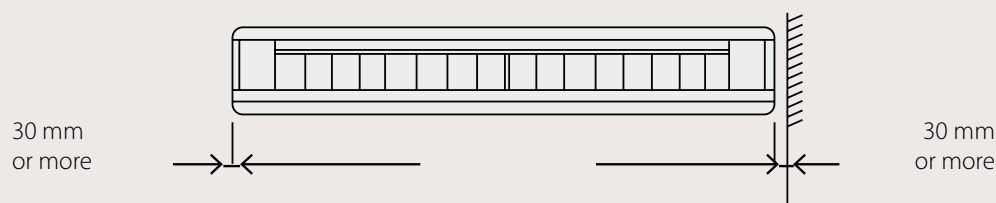
The ceiling suspended unit ensures you a **comfortable air flow** in all directions thanks to an air flow pattern of 100°.

> Air filter

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

Flexible installation, Simple maintenance

> Thanks to the small maintenance room on the side, the FHQ-B ceiling suspended unit can also be installed in corners and small spaces on ceilings and walls.



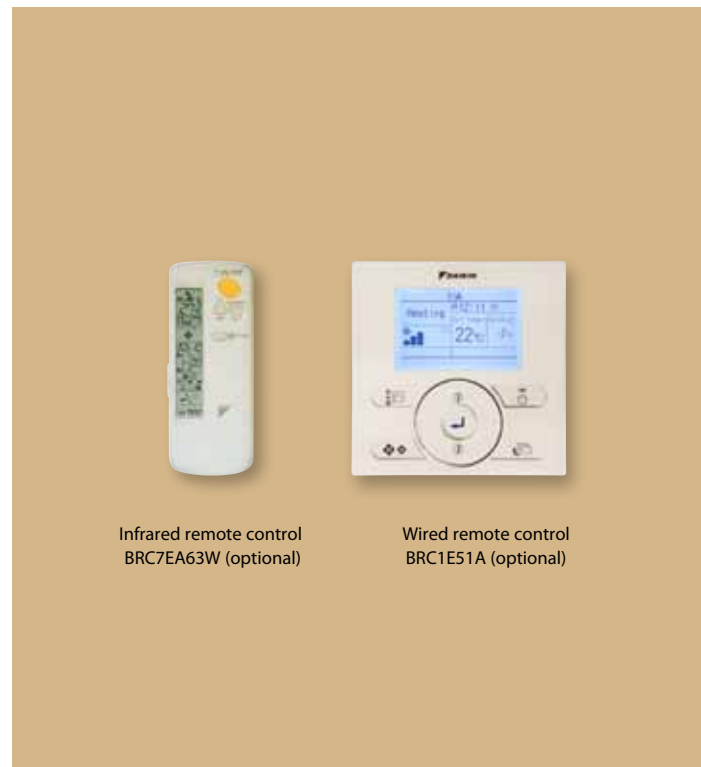
> The **outdoor unit** can be installed on the roof, terrace or against an outside wall.

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.
- > 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.

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, triple, double twin** (connecting up to 4 indoors in the same room to a single outdoor) and **multi** applications (connecting up to 9 units in several rooms to 1 outdoor unit).



Infrared remote control
BRC7EA63W (optional)

Wired remote control
BRC1E51A (optional)



Heating & Cooling

Indoor unit				FHQ35B	FHQ50B	FHQ60B
Cooling capacity	Min./Nom./Max.		kW	1.4/3.4 (3)/3.7	1.7/5.0 (3)/5.6	1.7/5.7 (3)/6.0
Heating capacity	Min./Nom./Max.		kW	1.2/4.0 (4)/5.0	1.7/6.0 (4)/7.0	1.7/7.2 (4)/8.0
Power input	Cooling	Min./Nom./Max.	kW	-/1.050/-	0.44/1.83/2.02	0.44/2.15/2.23
	Heating	Min./Nom./Max.	kW	-/1.110/-	0.40/2.05/2.45	0.40/2.49/2.75
EER				3.24	2.73	2.65
COP				3.60	2.93	2.89
Annual energy consumption			kWh	525	915	1,075
Energy label	Cooling/Heating			A/B		D/D
Casing	Colour				White	
Dimensions	Unit	HeightxWidthxDepth	mm	195x960x680		195x1,160x680
Weight	Unit		kg	24	25	27
Fan - Air flow rate	Cooling	High/Low	m ³ /min	13/10		17/13
	Heating	High/Low	m ³ /min	13/10		16/13
Sound power level	Cooling	High/Low	dBA	53/48	54/49	55/49
	Heating	High/Low	dBA	53/48	54/49	55/49
Sound pressure level	Cooling	High/Low	dBA	37/32	38/33	39/33
	Heating	High/Low	dBA	37/32	38/33	39/33
Refrigerant	Type			R-410A		
Piping connections	Liquid	OD	mm	6.35		
	Gas	OD	mm	9.5		12.7
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, 19.0°CWB; outdoor temp. 35°CDB, 24°CWB; equivalent piping length: 5m (4) Heating: indoor temp. 20°CDB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m (5) 220V (6) 230V (7) 240V

Outdoor unit				RXS35J	RXS50J	RXS60F
Dimensions	Unit	HeightxWidthxDepth	mm	550x765x285	735x825x300	
Weight	Unit		kg	34	48	
Sound power level	Cooling	High	dBA	63		
Sound pressure level	Cooling	High/Silent operation	dBA	48/44		49/46
	Heating	High/Silent operation	dBA	48/45		49/46
Compressor	Type			Hermetically sealed swing compressor		
Operation range	Cooling	Ambient	Min.~Max.	°CDB -10~46		
	Heating	Ambient	Min.~Max.	°CWB -15~18		
Refrigerant	Type			R-410A		
Piping connections	Additional refrigerant charge		kg/m	0.02 (for piping length exceeding 10m)		
	Level difference	IU - OU	Max.	15	20	
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240		

Heating & Cooling

Seasonal Inverter

Indoor unit				FHQ71B	FHQ100B	FHQ125B	FHQ100B	FHQ125B
Cooling capacity	Nom.		kW	7.1 (3)	10.0 (3)	12.5 (3)	10.00 (3)	12.50 (3)
Heating capacity	Nom.		kW	8.0 (4)	11.2 (4)	14.0 (4)	11.20 (4)	14.00 (4)
Power input	Cooling	Nom.	kW	2.34	3.14	4.24	3.150	4.450
	Heating	Nom.	kW	2.58	3.43	4.28	3.600	4.500
EER				3.03	3.18	2.95	3.17	2.81
COP				3.10		3.27		3.11
SEER				3.47	3.06	3.31	3.06	3.18
Annual energy consumption			kWh	1,172	1,572	2,119	1,575	2,225
Energy label	Cooling/Heating			B/D	B/C	C/C	B/D	C/D
Casing	Colour			White			White	
Dimensions	Unit	HeightxWidthxDepth	mm	195x1,160x680	195x1,400x680	195x1,590x680	195x1,400x680	195x1,590x680
Weight	Unit		kg	27	32	35	32	35
Fan - Air flow rate	Cooling	High/Low	m ³ /min	17/14	24/20	30/25	24/20	30/25
	Heating	High/Low	m ³ /min	17/14	24/20	30/25	24/20	30/25
Sound power level	Cooling	High/Low	dBA	55/51	58/53	60/55	58/53	60/55
	Heating	High/Low	dBA	55/51	58/53	60/55	58/53	60/55
Sound pressure level	Cooling	High/Low	dBA	39/35	42/37	44/39	42/37	44/39
	Heating	High/Low	dBA	39/35	42/37	44/39	42/37	44/39
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

Outdoor unit				RZQ71D3V1	RZQ100D9V1	RZQ125D9V1	RZQ100B9W1	RZQ125B9W1	
Dimensions	Unit	HeightxWidthxDepth	mm	770x900x320	1,345x900x320		1,345x900x320		
Weight	Unit		kg	67	109		106		
Sound power level	Cooling	Nom.	dBA	64	65	67	65.0	66.0	
Sound pressure level	Cooling	Nom.	dBA	48	50	51	49.0	50.0	
	Heating	Nom.	dBA	50	52	53	51.0	52.0	
Night quiet mode	Level 1		dBA	43	45		45		
					45		45		
Compressor	Type			Hermetically sealed swing compressor	Hermetically sealed scroll compressor		Hermetically sealed scroll compressor		
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	50	75		75		
	Additional refrigerant charge			kg/m	See installation manual 4PW48323-1			See installation manual 4PW21412-1	
	Level difference	IU - OU	Max.	30.0			30.0		
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240			3N~ / 50 / 400		
				0.5			0.5		

Heating & Cooling

Indoor unit				FHQ71B	FHQ100B	FHQ125B
Cooling capacity	Nom.		kW	7.1 (3)	10.0 (3)	12.5 (3)
Heating capacity	Nom.		kW	8.0 (4)	11.2 (4)	14.0 (4)
Power input	Cooling	Nom.	kW	2.51	3.56	4.55
	Heating	Nom.	kW	2.75	3.85	4.86
EER				2.83	2.81	2.75
COP					2.91	2.88
Annual energy consumption			kWh	1,254	1,779	2,273
Energy label	Cooling/Heating				C/D	D/D
Casing	Colour				White	
Dimensions	Unit	HeightxWidthxDepth	mm	195x1,160x680	195x1,400x680	195x1,590x680
Weight	Unit		kg	27	32	35
Fan - Air flow rate	Cooling	High/Low	m ³ /min	17/14	24/20	30/25
	Heating	High/Low	m ³ /min	17/14	24/20	30/25
Sound power level	Cooling	High/Low	dBA	55/51	58/53	60/55
	Heating	High/Low	dBA	55/51	58/53	60/55
Sound pressure level	Cooling	High/Low	dBA	39/35	42/37	44/39
	Heating	High/Low	dBA	39/35	42/37	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				RZQS71D	RZQS100D	RZQS125D
Dimensions	Unit	HeightxWidthxDepth	mm	770x900x320		1,170x900x320
Weight	Unit		kg	68		103
Sound power level	Cooling	Nom.	dBA	65		67
	Cooling	Nom.	dBA	49		51
Sound pressure level	Heating	Nom.	dBA	51	55	53
	Night quiet mode	Level 1	dBA	47		49
Compressor	Type			Hermetically sealed swing compressor		Hermetically sealed scroll compressor
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	m	30	50
	Additional refrigerant charge			kg/m		See installation manual 4PW49302-1
	Level difference	IU - OU	Max.	m	15	30
Power supply	Phase / Frequency / Voltage		Hz / V			0.5
						1~ / 50 / 220-240





Indoor unit
FUQ-B



Wired (BRC1E51A) &
infrared remote control
(BRC7EA63W)



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.



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. Multi units are Eurovent certified for combinations up to 2 indoor units.

The present leaflet is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this leaflet to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this leaflet. All content is copyrighted by Daikin Europe N.V.

