

Air Conditioners

Heating & Cooling

SkyAir[®]

- » Energy label:
Up to class A
- » Heat pump system
- » Inverter technology
- » Fits precisely
in standard modules
of 600x600mm
- » 4-way blow for
comfortable air
distribution
- » As silent
as rustling leaves

4-Way Blow Ceiling Mounted Cassette



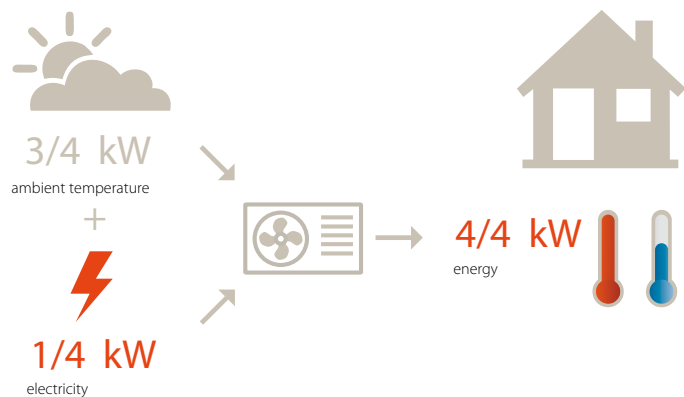
www.daikin.eu



FFQ-B

For a long time already, advanced heat pump systems have been far from a luxury in modern office buildings, shops, and restaurants. Changing climatic conditions and contemporary architecture with large glass partitions - in combination with an ever-increasing insulation performance - have resulted in one system which heats and cools becoming standard equipment. Daikin ceiling mounted cassettes are integrated perfectly into the ceiling, which enables you to keep all the available space for your furniture, equipment and decoration.

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

Inverter technology

The inverter technology, developed by Daikin is a true innovation in the area of climate control. The principle is simple: inverters adjust the power used to suit the actual requirement. No more, no less. This technology provides you with two concrete benefits:

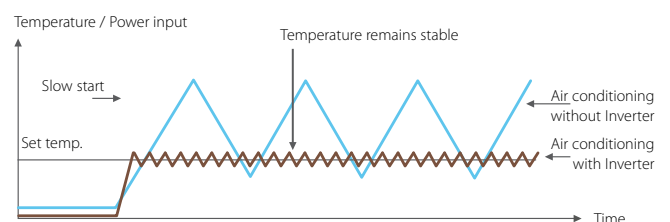
► Comfort

The inverter repays its investment many times over by improving comfort. An air conditioning system with an inverter continuously adjusts its cooling and heating output to suit the temperature in the room. The inverter shortens system start-up time enabling the required room temperature to be reached more quickly. As soon as that temperature is reached, the inverter ensures that it is constantly maintained.

► Energy efficient

Because an inverter monitors and adjusts ambient temperature whenever needed, energy consumption drops by 30% compared to a traditional on/off system! (non inverter)

Heating operation:

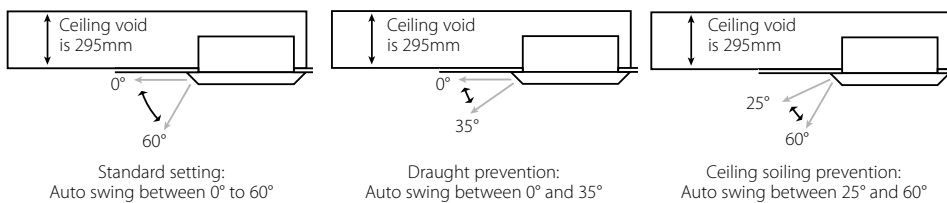


4-way blow for comfortable air distribution

As the name suggests, these units discharge air in four directions. An integrated air filter traps the tiniest dust particles and, in so doing, ensures a constant supply of clean air. The indoor unit distributes the air almost inaudibly; the sound levels are as low as 24.5 dBA, which corresponds to rustling leaves. For even greater comfort, you can choose between various settings by simply using the remote control.

> Autoswing

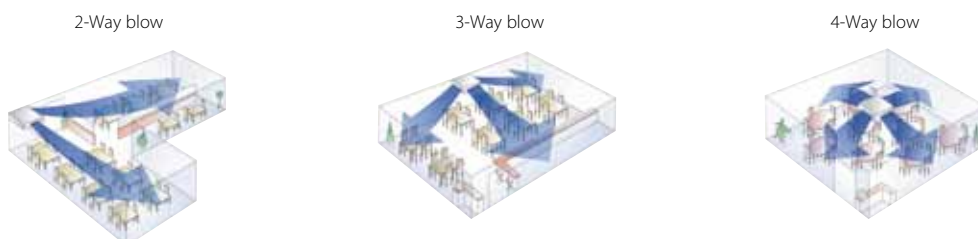
You have the choice of **three auto-swing positions** for maximum climate comfort: standard, draught prevention or ceiling soiling prevention. Since the flaps can be moved to a 0° position, draughts are virtually impossible.



Flexible installation, Easy use

With a new decorative front panel in 'pure white' (RAL9010), the FFQ ceiling mounted cassette blends in discreetly with contemporary white ceilings. The ceiling mounted cassette is the ideal solution if heating or cooling is to be unobtrusive, such as in restaurants, shops, showrooms, museums, offices and sports centres.

- > The FFQ ceiling mounted unit can be fitted effortlessly in **shallow, false ceilings** - only 295 mm ceiling void is required. The compact casing enables this model to fit precisely in the standard architectural modules of 600 x 600 mm, so **ceiling tiles no longer need to be adjusted**.
- > It is possible to shut one or two discharge flaps off, enabling the cassette to be installed in a corner, a wall or a confined space.





- > **The switch box** is inside the indoor unit. There is easy access from below for maintenance work. It is not even necessary to remove any ceiling tiles.
- > The indoor unit is easy control with **a wired or infrared remote control**.



Wired remote control
BRC1E51



Infrared remote control
BRC7E530W

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

Application options

- > Depending on your air conditioning need, you can have your unit either **heat or cool (heat pump) and cooling only**.
- > The indoor unit is suited to **single-split application** (one indoor unit connected to one outdoor unit), **twin, triple or double twin applications** (a maximum of four indoor units in the same room to one outdoor unit) and **multi-split application** (a maximum of nine indoor units in different rooms to one outdoor unit).

Heating & Cooling

INDOOR UNITS				FFQ25B	FFQ35B	FFQ50B	FFQ60B
Capacity	cooling	nom.	kW	2.50 ³	3.40 ³	4.70 ³	5.80 ³
	heating	nom.	kW	3.20 ⁴	4.00 ⁴	5.50 ⁴	7.00 ⁴
Power input	cooling	nom.	kW	0.73	1.10	1.80	2.07
	heating	nom.	kW	0.92	1.20	1.96	2.49
EER				3.42	3.09	2.61	2.80
COP				3.48	3.33	2.81	2.81
Energy label	cooling/heating			365	550	900	D/D
Annual energy consumption			kWh	A/B	B/C	D/D	1035
Dimensions	unit	heightxwidthxdepth	mm	286x575x575			
Weight	unit		kg	17.5			
Fan - Air flow rate	cooling	high/low	m ³ /min	9.0/6.5	10.0/6.5	12.0/8.0	15.0/10.0
	heating	high/low	m ³ /min	9.0/6.5	10.0/6.5	12.0/8.0	15.0/10.0
Sound pressure level	cooling	high/low	dBA	29.5/24.5	32.0/25.0	36.0/27.0	41.0/32.0
	heating	high/low	dBA	29.5/24.5	32.0/25.0	36.0/27.0	41.0/32.0
Sound power level	cooling	high	dBA	46.5	49.0	53.0	58.0
Power supply	phase/frequency/voltage			1~/50/230			
Piping connections	liquid	OD	mm	ø 6.35			
	gas	OD	mm	ø9.5		ø12.7	
	drain	OD	mm	ø26			
Decoration panel	model			BYFQ60BAW1			
	colour			White (RAL9010)			
	dimensions	heightxwidthxdepth	mm	55x700x700			
	weight			2.7			

(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) 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				RXS25G	RXS35G	RXS50G	RXS60F
Dimensions	unit	heightxwidthxdepth	mm	550x765x285		735x825x300	
Weight	unit		kg	34		48	
Operation range	cooling	ambient	min.-max. °CDB	-10~46			
	heating	ambient	min.-max. °CWB	-15~20		-15~18	
Sound pressure level	cooling	high/low	dBA	46/43	48/44	49/46	
	heating	high/low	dBA	47/44	48/45	49/46	
Sound power level	cooling	nom.	dBA	61	63	62	63
Compressor				Hermetically sealed swing			
Refrigerant				R-410A			
Power supply	phase/frequency/voltage			1~/50/220-230-240		1~/50/220-240	
Piping connections	additional refrigerant charge			0.02 (for piping length exceeding 10m)			
	level difference	IU - OU	max.	15		20	
	total piping length	system	actual	-			



Indoor unit FFQ-B



Wired remote control BRC1E51,
infrared remote control BRC7E530W



Outdoor unit
RXS50-60F

Cooling only

INDOOR UNITS				FFQ50B	FFQ60B
Cooling capacity	nom.		kw	4.70 ³	5.80 ³
Power input	cooling	nom.	kw	1.80	2.07
EER				2.61	2.80
Annual energy consumption			kwh	900	1,035
Energy label	cooling			D	
Dimensions	unit	heightxwidthxdepth	mm	286x575x575	
Weight	unit		kg	17.5	
Fan - Air flow rate	cooling	high/low	m ³ /min	12.0/8.0	15.0/10.0
Sound pressure level	cooling	high/low	dba	36.0/27.0	41.0/32.0
Sound power level	cooling	high	dba	53.0	58.0
Power supply	phase/frequency/voltage		hz/v	1~/50/230	
Piping connections	liquid	OD	mm	ø6.35	
	gas	OD	mm	ø12.7	
	drain	OD	mm	-	
Decoration panel	model			BYFQ60BAW1	
	colour			White (RAL9010)	
	dimensions	heightxwidthxdepth	mm	55x700x700	
	weight		kg	2.7	

(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) The sound power level is an absolute value indicating the power which a sound source generates. (5) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. (6) Sound values are measured in an anechoic room.

OUTDOOR UNITS				RN50E	RN60E
Dimensions	unit	heightxwidthxdepth	mm	735x825x300	
Weight	unit		kg	47	
Operation range	cooling	ambient	min.~max. °CDB	-10.0~46.0	
Sound pressure level	cooling	nom.	dba	47	49
Sound power level	cooling	nom.	dba	61	63
Compressor	type			Hermetically sealed swing compressor	
Refrigerant	type			R-410A	
Power supply	phase/frequency/voltage		Hz/V	1~/50/220-240	
Piping connections	additional refrigerant charge		kg/m	0.02 (for piping length exceeding 10m)	
	level difference	IU - OU	max. m	-	
		IU - IU	max. m	20.0	

Cooling-only

INDOOR UNITS				FFQ25B	FFQ35B	FFQ50B
Cooling capacity	min./nom./max.		kW	2.50 ³	3.40 ³	4.70 ³
Power input	cooling	min./nom./max.	kW	0.73	1.10	1.80
EER				3.42	3.09	2.61
Annual energy consumption			kWh	365	550	900
Energy label	cooling			C		
Dimensions	unit	heightxwidthxdepth	mm	286x575x575		
Weight	unit		kg	17.5		
Fan - Air flow rate	cooling	high/low	m ³ /min	9.0/6.5	10.0/6.5	12.0/8.0
Sound pressure level	cooling	high/low	dba	29.5/24.5	32.0/25.0	36.0/27.0
Sound power level	cooling	high	dba	46.5	49.0	53.0
Power supply	phase/frequency/voltage		Hz/V	1~/50/230		
Piping connections	liquid	OD	mm	ø6.35		
	gas	OD	mm	ø12.7		
	drain	OD	mm	ø26		
Decoration panel	model			BYFQ60BAW1		
	colour			White (RAL9010)		
	dimensions	heightxwidthxdepth	mm	55x700x700		
	weight		kg	2.7		

(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) The sound power level is an absolute value indicating the power which a sound source generates. (5) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. (6) Sound values are measured in an anechoic room.

OUTDOOR UNITS				RKS25G	RKS35G	RKS50G
Dimensions	unit	heightxwidthxdepth	mm	550x765x285		735x825x300
Weight	unit		kg	34		47
Operation range	cooling	ambient	min.~max. °CDB	-10~46		
Sound pressure level	cooling	high	dba	46/43	48/44	
Sound power level	cooling	nom.	dba	61	63	62
Compressor	type			Hermetically sealed swing compressor		
Refrigerant	type			R-410A		
Power supply	phase/frequency/voltage		Hz/V	1~/50/220-240		
Piping connections	additional refrigerant charge		kg/m	0.02 (for piping length exceeding 10m)		
connections	level difference	IU - OU	max. m	15		20

Cooling only

INDOOR UNITS				FFQ60B
Cooling capacity	min./nom./max.		kW	1.7/5.8 ³ /6.0
Power input	cooling	min./nom./max.		0.440/2.065/2.170
EER				2.81
Annual energy consumption				1,032
Energy label	cooling			C
Dimensions	unit	heightxwidthxdepth	mm	286x575x575
Weight	unit			kg
Fan - Air flow rate	cooling	high/low	m ³ /min	15.0/10.0
Sound pressure level	cooling	high/low	dBA	41.0/32.0
Sound power level	cooling	high	dBA	58.0
Power supply	phase/frequency/voltage		Hz/V	1~/50/230
Piping connections	liquid	OD	mm	ø6.35
	gas	OD	mm	ø12.7
	drain	OD	mm	ø26
Decoration panel	model			BYFQ60BAW1
	colour			White (RAL9010)
	dimensions	heightxwidthxdepth	mm	55x700x700
	weight			kg

(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) The sound power level is an absolute value indicating the power which a sound source generates. (5) Sound pressure level is a relative value, depending on the distance and acoustic environment. For more details, please refer to the sound level drawings. (6) Sound values are measured in an anechoic room.

OUTDOOR UNITS				RKS60F
Dimensions	unit	heightxwidthxdepth	mm	735x825x300
Weight	unit			kg
Operation range	cooling	ambient	min.~max.	°CDB
Sound pressure level	cooling	high		dBA
	night quiet mode	level 1		dBA
Sound power level	cooling	nom.		dBA
Compressor	type			Hermetically sealed swing compressor
Refrigerant	type			R-410A
Power supply	phase/frequency/voltage		Hz/V	1/50/220-230-240
Piping connections	additional refrigerant charge		kg/m	0.02 (for piping length exceeding 10m)
	level difference	IU - OU	max.	m





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.



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