

Air Conditioners

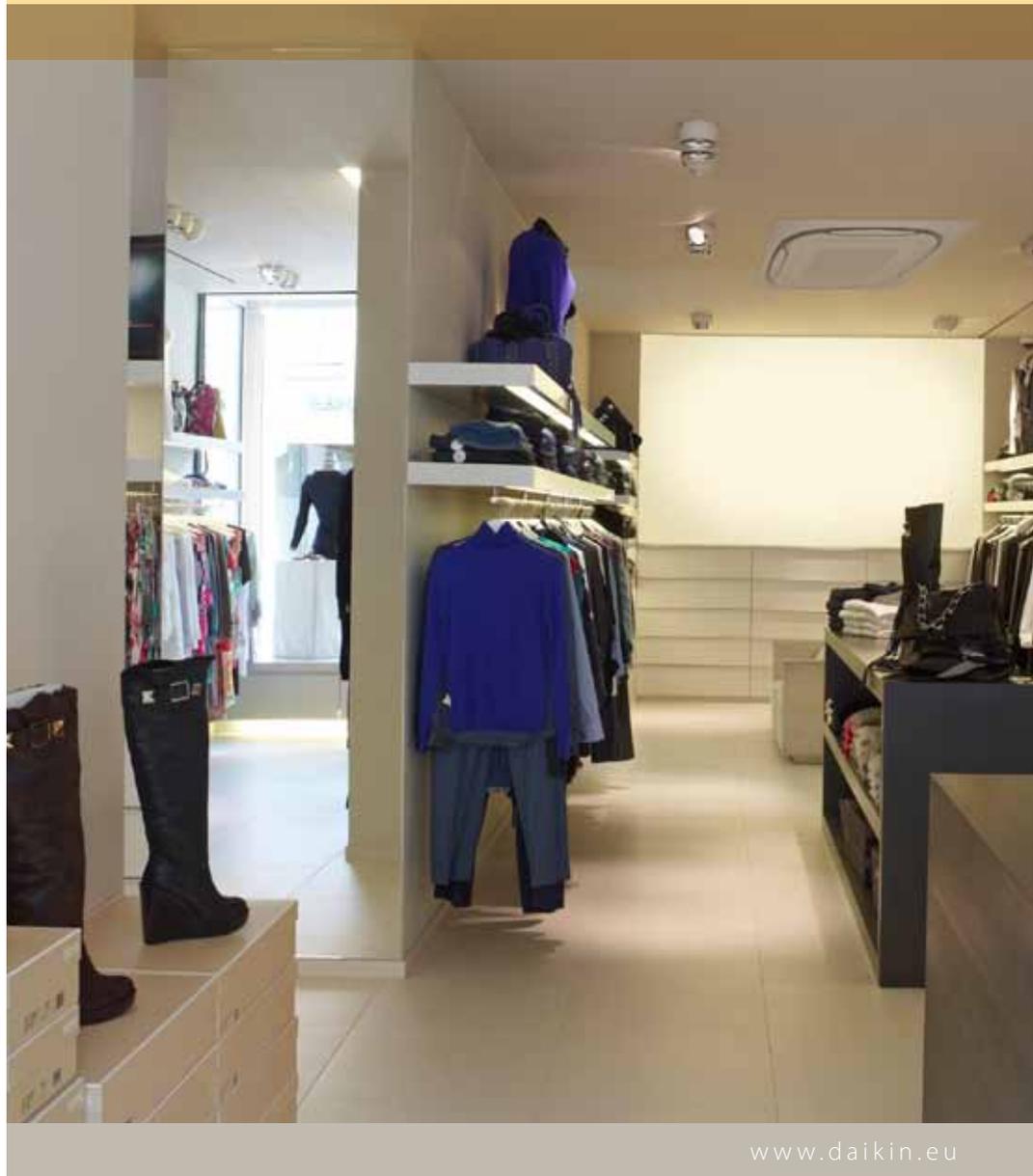
Heating & Cooling

SkyAir[®]

FULL RANGE
A CLASS
ENERGY LABEL

- » **Seasonal efficiency, optimized for all seasons**
- » **Heat pump system**
- » **Round flow principle: 360° air discharge**
- » **Constant comfort throughout room**

Round Flow Cassette



www.daijin.eu



FCQG-E

As one of the leading manufacturers of air conditioning systems for both the retail and business markets, Daikin aims to meet 100% of your specific demands regarding temperature and air quality. We do this by developing integrated air conditioning solutions which guarantee a high quality and healthy indoor environment and which, over and above that, also provide considerable energy savings.

The FCQG-E round flow cassette model which, with its 360° air discharge pattern, provides improved air distribution and a more constant temperature in large areas.

The decoration panel blends in perfectly in the ceilings.

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



Daikin goes seasonal ...

... as we committed to leading the way in energy-efficient residential and commercial cooling solutions

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.

In line with technological advancements and stricter environmental legislation, Daikin 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 which was launched in April 2010, the first on the market to anticipate Europe's new stricter environmental requirements.

As technological leader, we wanted to go already 1 step further and decided to develop a commercial unit already compliant with 2015 Eco-Design requirements: the new RZQG-series, ensuring an increase in seasonal efficiency even compared to the Seasonal Inverter, SEER up to 4.62 -> savings vs. RZQ100D9 + FCQH100D8 = 125%*!

Because of the optimized inverter control, the Sky Air® range optimized for seasonal efficiency 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).



*(PrEN14825: inquiry version 2010)

All the comfort functions for a healthy indoor climate

The round flow provides comfortable air discharge in all directions. Thanks to the unique **360° radial air distribution pattern**, so-called dead corners - and temperature differences - are definitely something of the past. An incorporated **air filter** traps the smallest dust particles and, in so doing, ensures that there is a constant inflow of pure air. The indoor unit operates in an almost inaudible manner: the noise it makes amounts to **barely 29 dBA**, which corresponds to rustling leaves. For even greater comfort, you can choose between various settings by simply using the remote control.

> Auto swing

The vertical auto swing system makes the outflow louvers move up and down automatically, enabling even distribution of air and temperature in the room. There are three settings to choose from: standard, draught prevention and ceiling soiling prevention. The last-mentioned setting prevents the air from blowing too long in a horizontal position, which in turn prevents the ceiling from being soiled.

> Automatic airflow regulation

The airflow pattern that was last selected is saved and automatically set again when the air conditioner is started up again.

> Draught prevention

This setting sees to it that when the heating is turned on, there is an automatic switch to horizontal air flow. This helps prevent draughts.

> Automatic cooling/heating changeover

The round flow automatically selects heating or cooling mode to maintain the pre-set temperature.

> Round flow air discharge principle

Another unique benefit is that the 360° air discharge pattern reduces the air flow and temperature fluctuations, with the result that fewer on/off cycles are required. This round flow air discharge principle therefore provides additional energy savings.

> Several air flow patterns at your disposal

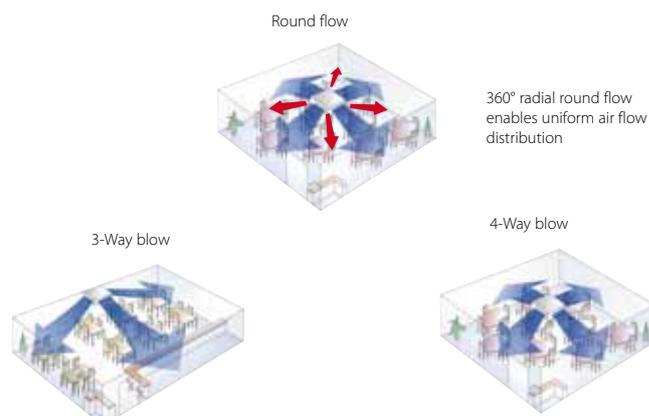
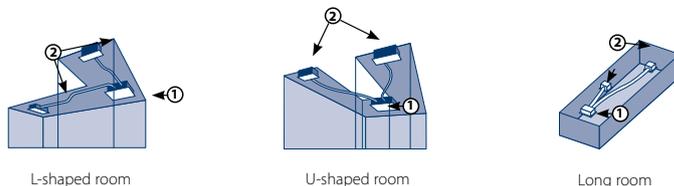
The indoor unit blows air out over 360°, but the optional closure kit make it possible to achieve 3-way and 4-way flow patterns, which means you can install the round flow in a corner, next to a wall or in a confined space.

> Fresh air intake

By means of a separate connection (optional) the indoor unit can also have a maximum of 10% fresh air intake.

> Branch duct connection

The air discharge grilles can be installed separately from the indoor unit for use in long and "L" or "U" shaped rooms. A flexible duct system connects the grilles to the indoor unit and guarantees a pleasant climate, even in **irregularly shaped areas**.



- > **The grille is also much less visibly integrated** so that the unit is more elegant and blends in **discreetly** with the traditional and contemporary white ceilings.
- > The **limited depth** (minimum installation height of 298 mm) enables the indoor unit to fit flush into false ceilings. It is possible to close the flaps so that the unit can be installed in the middle of the room or in a confined space.
- > The **outdoor unit** can be installed on the roof, terrace or against an outside wall.
- > **Round flow air discharge principle**
Another unique benefit is that the 360° air discharge pattern reduces the air flow and temperature fluctuations, with the result that fewer on/off cycles are required. This round flow air discharge principle therefore provides additional energy savings.

Super complete remote control

- > 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, 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.



Wired remote control BRC1E51A (Optional)

Application options

- > Depending on your air conditioning need, you can **have your unit either heat or cool (heat pump)**.
- > The indoor unit is suited to **single-split application** (one indoor unit connected to one outdoor unit).



Heating & Cooling

INDOOR UNITS				FCQG71E	FCQG100E	FCQG125E	FCQG140E
Cooling capacity	nom.		kW	7.1 ³	10.0 ³	-	14.0 ³
Heating capacity	nom.		kW	8.0 ⁴	11.2 ⁴	-	16 ⁴
Power input	cooling	nom.	kW	1.85	2.47	-	4.36
	heating	nom.	kW	1.70	2.38	-	3.99
EER				3.84	4.05	-	3.21
COP					4.71	-	4.01
SEER				4.67 ⁵	4.62 ⁵	-	-
Annual energy consumption			kWh	925	1,235	-	2,180
Energy label	cooling/heating				A/A	-	A/A
Casing material						Galvanised steel plate	
Dimensions	unit	heightxwidthxdepth	mm			288x840x840	
Weight	unit		kg			25	
Fan - Air flow rate	cooling	high/low	m ³ /min	21.5/12.5	32/19		33/21
	heating	high/low	m ³ /min	21.5/12.5	32/19		33/21
Sound power level	cooling	high/nom.	dBA	-/53		-/61	
Sound pressure level	cooling	high/nom.	dBA	-/36	-/44		-/45
	heating	nom.	dBA	29	33	35	37
Piping connections	liquid	OD	mm			ø 9.52	
	gas	OD	mm			ø 15.9	
	drain	OD	mm			VP25 (OD32)	
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 (horizontal)(4)Heating: indoor temp. 20°CDB, 15°CWB; outdoor temp. 7°CDB, 6°CWB; equivalent refrigerant piping: 5m (horizontal);(5)SEER: Pr-EN14825 - inquiry version 2010

OUTDOOR UNITS				RZQG71L	RZQG100L	RZQG125L	RZQG140L
Dimensions	unit	heightxwidthxdepth	mm	990x940x320		1,430x940x320	
Weight	unit		kg	77		99	
Sound power level	cooling	nom.	dBA	64	66	67	68
Sound pressure level	cooling	nom.	dBA	48	50		51
	heating	nom.	dBA	50	52		53
Compressor	type			Hermetically sealed swing compressor		Hermetically sealed rotary compressor	
Operation range	cooling	ambient	min.-max. °CDB			-15~50	
	heating	ambient	min.-max. °CWB			-20~15.5	
Refrigerant	type					R-410A	
Piping connections	liquid	OD	mm			ø 9.52	
	gas	OD	mm			ø 15.9	
	drain	OD	mm			ø 26.0	
	piping length	max.	OU - IU	m	50		75
	additional refrigerant charge			kg/m			-
level difference	iu - ou	max.	m			30	
Power supply	phase;frequency;voltage		Hz;V			1;50;220-240	



Indoor unit FCQG71,100,125,140E



Wired remote control BRC1E51A



Outdoor unit RZQG100,125,140L



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 (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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