

Air conditioners

Heating & Cooling

SkyAir[®]

- » **Energy label:
Up to class A**
- » **Heat pump system**
- » **Seasonal inverter
technology**
- » **Round flow 360° air
discharge**
- » **Fits flush
into a false ceiling**
- » **Decoration panel
available in
3 variations**
- » **Higher comfort &
efficiency with the
auto cleaning panel**
- » **Multi model
application**

Round flow cassette



www.daikin.eu



FCQ-C8

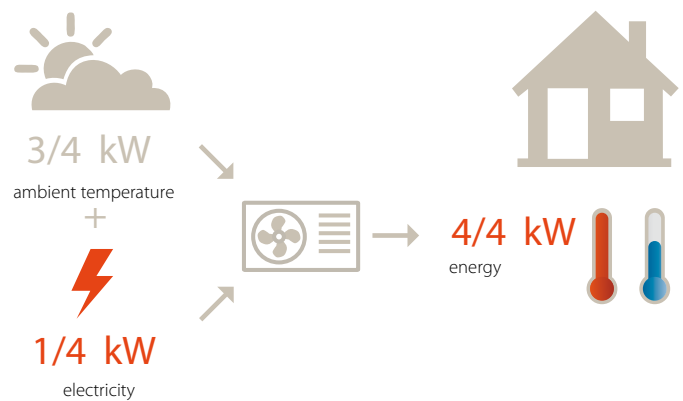
As one of the leading manufacturers of air conditioning systems for both the retail and business markets, Daikin aims to meet 100% of your specific demands regarding temperature and air quality. We do this by developing integrated heat pump solutions which guarantee a high quality and healthy indoor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

The FCQ-C8 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 is available in 2 different colours and blends in perfectly with the traditional and contemporary white ceilings.

Daikin introduces the first auto cleaning cassette to the European market. With this decoration panel energy & maintenance costs will be lower and comfort will be increased.

The slim 'Thin Body' FCQ-C8 model, has a low installation height, is exceptionally suited to applications in false ceilings and operates with less draught and whisper quiet.

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 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, optimised for all seasons

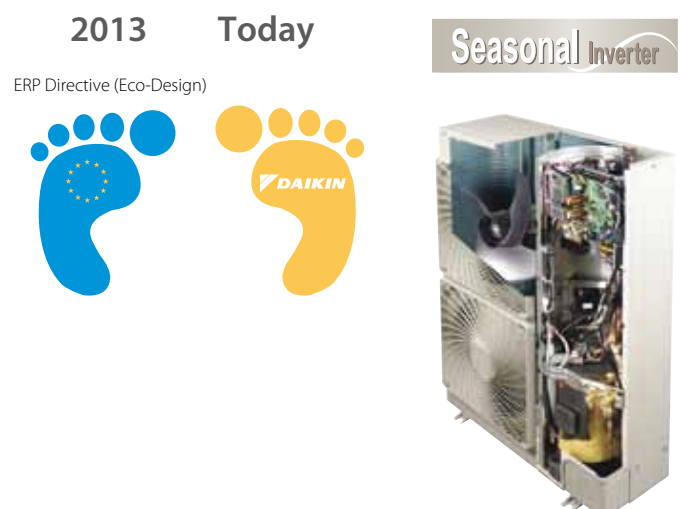
Taking into account technological advances and stricter environmental legislation, Daikin Europe N.V. is the market leader in energy-efficient residential and commercial cooling solutions. A good example of this is Daikin's Sky Air® Seasonal Inverter which was developed for light commercial applications 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 (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 - Energy Efficiency Ratio), 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 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.



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 27 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 air flow regulation**

The air flow 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**

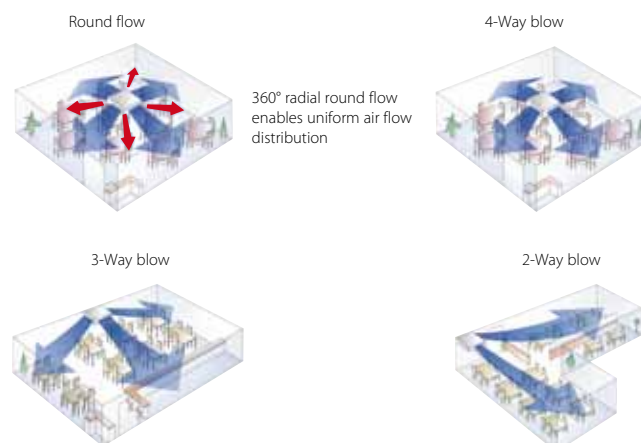
The indoor unit automatically selects heating or cooling mode to maintain the pre-set temperature.

> **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.

> **23 air flow patterns**

The indoor unit blows air out over 360°, but the optional closure kit make it possible to achieve 2-way, 3-way and 4-way flow patterns, which means you can install the Roundflow in a corner, next to a wall or in a confined space. In total, you have no less than 23 different air flow patterns at your disposal. By means of a separate connection (optional) the indoor unit can also have a maximum of 20% fresh air intake.



Straightforward installation means low costs

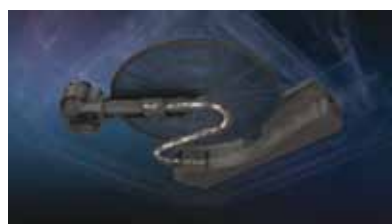
Decoration panel is available in different variations:

» Auto cleaning decoration panel: option for round flow cassettes

Daikin has launched the auto cleaning panel for the round flow cassette, equipped with a special filter, which automatically cleans itself once a day. All dust coming from this filter is stored in the indoor unit (dust box) and can easily be removed with a normal vacuum cleaner. With this decoration panel energy and maintenance costs will be lower and comfort will be increased.

» Higher efficiency and comfort

With the auto cleaning decoration panel the filter is cleaned everyday and therefore the energy consumption remains constant. This results in an energy saving up to 10% to yearly filter cleaning with a standard decoration panel.



» Easy maintenance in 3 steps and lower maintenance costs

Step 1:

Once a day the rounded filter turns 360° to pass the special brush. The timing can be programmed with the remote controller.

Step 2:

The caught dust is sent to the dust box. On average this box can contain the dust of 1 year for office applications and half a year for shop applications (depending on annual operation hours and shop type).

Step 3:

Removal of dust can easily be done with a vacuum cleaner:

- > Quick
- > No qualified personnel required
- > No ladder or other equipment is needed
- > No rearrangement of shop interior is required to access the unit
- > Not necessary to open the decoration panel
- > Not necessary to touch the dust

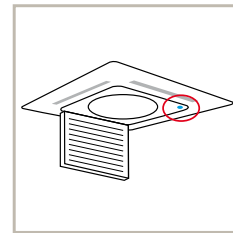
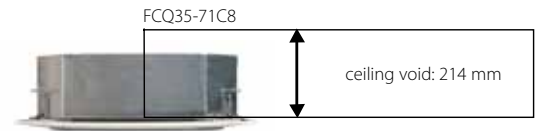
The round flow cassette has a **decorative front panel**, available in 2 different colours:

white with white louvers (RAL9010)

white (RAL9010) with grey louvers



- > It is no accident that the roundflow cassette was awarded the “Good Design Award”, a prestigious distinction in Japan in industrial design field.
- > **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 214 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, in a corner or in a confined space.
- > **The condensation channel can be checked effortlessly** via a transparent drain sleeve, plus there is easy access to the drain plug. Checks can be carried out without removing the front panel.
- > The **outdoor unit** can be installed on the roof, terrace or against an outside wall.



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.
- > 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 **indoor unit has the D3-net connection as a standard accessory** and can be controlled via a centralised control system (iManager and iTouch Controller).



Wired remote control BRC1E51A (Optional)



Infrared remote control (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), **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 UNIT				FCQ35C8	FCQ50C8	FCQ60C8
Cooling capacity	min./nom./max.		kW	1.4 / 3.4 ³ / 3.7	0.9 / 5.0 ³ / 5.6	0.9 / 5.7 ³ / 6.0
Heating capacity	min./nom./max.		kW	1.4 / 4.2 ⁴ / 5.0	0.9 / 6.0 ⁴ / 7.0	0.9 / 7.0 ⁴ / 8.0
Power input	cooling	nom.	kW	0.95	1.41	1.640
	heating	nom.	kW	1.23	1.62	1.990
EER				3.58	3.55	3.48
COP				3.41	3.70	3.52
Annual energy consumption			kWh	475	705	820
Energy label	cooling/heating			A/B	A/A	A/B
Dimensions	unit	heightxwidthxdepth	mm	204x840x840		
Weight	unit		kg	19		
Decoration panel	model	BYCQ140CW1 / BYCQ140CW1W / BYCQ140CGW1				
	colour	Pure White (RAL 9010)				
	dimensions	heightxwidthxdepth	mm	50x950x950 / 50x950x950 / 130x950x950		
Sound power level	weight		kg	5.5 / 5.5 / 11.5		
	cooling	high	dBA	49		51
Sound pressure level	cooling	high/low	dBA	31/27		33/28
	heating	high/low	dBA	31/27		33/28
Refrigerant	type			R-410A		
Piping connections	liquid	OD	mm	6.35		
	gas	OD	mm	9.5	12.7	
	drain	OD	mm	32		
Power supply	phase / frequency / voltage		Hz / V	1~ / 50/60 / 220-240/220		

(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: return air temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB; equivalent refrigerant piping length 5m (horizontal) (4) Nominal heating capacities are based on: indoor temperature: 20°CDB, outdoor temperature: 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) The BYCQ140CW1W has white insulations. Be informed that formation of dirt on white insulations is more visible and that it is consequently not advised to install the BYCQ140CW1W decoration panel in environments exposed to concentrations of dirt.

OUTDOOR UNIT				RXS35J	RXS50J	RXS60F
Dimensions	unit	heightxwidthxdepth	mm	550x765x285	735x825x300	
Weight	unit		kg	34	48	
Fan - Air flow rate	cooling	high/low/super low	m ³ /min	36.0/-/30.1	50.9/-/48.9	50.9/42.4/-
	heating	high/low/super low	m ³ /min	28.3/-/25.6	45.0/-/43.1	46.3/42.4/-
Sound power level	cooling	nom.	dBA	63		
Sound pressure level	cooling	high/low	dBA	48/44		49/46
	heating	high/low	dBA	48/45		49/46
Operation range	cooling	ambient	min.~max. °CDB	-10~46		
	heating	ambient	min.~max. °CWB	-15~18		-15~20
Refrigerant	type			R-410A		
Piping connections	piping length	max.	OU - IU m	-		
	level difference	IU - OU max.	m	15	20	
Power supply	phase / frequency / voltage		Hz / V	1~ / 50 / 220-240		



Heating & Cooling

Seasonal Inverter

INDOOR UNIT				FCQ71C8	FCQ100C8	FCQ125C8	FCQ140C8	FCQ100C8	FCQ125C8	FCQ140C8
Cooling capacity	nom.	kW		7.1 ³	10.0 ³	12.5 ³	14.0 ³	10.00 ³	12.50 ³	14.00 ³
Heating capacity	nom.	kW		8.0 ⁴	11.2 ⁴	14.0 ⁴	16.0 ⁴	11.20 ⁴	14.00 ⁴	16.00 ⁴
Power input	cooling	nom.	kW	2.11	2.64	3.70	5.11	2.640	3.880	5.36
	heating	nom.	kW	2.21	2.96	3.88	4.89	3.140	4.360	5.69
EER				3.36	3.79	3.38	2.74	3.79	3.22	2.61
COP				3.62	3.78	3.61	3.27	3.57	3.21	2.81
SEER				3.71	3.54	3.73	3.14	3.56	3.58	3.01
Annual energy consumption	kWh			1,055	1,319	1,849	2,555	1,320	1,940	2,680
Energy label	cooling/heating			A/A			D/C	A/B	A/C	D/D
Dimensions	unit	heightxwidthxdepth		mm	204x840x840		246x840x840		246x840x840	
Weight	unit			kg	21		23		23	
Decoration panel	model				BYCQ140CW1 / BYCQ140CW1W / BYCQ140CGW1			BYCQ140CW1 / BYCQ140CW1W / BYCQ140CGW1		
	colour				Pure White (RAL 9010)			Pure White (RAL 9010)		
	dimensions	heightxwidthxdepth		mm	50x950x950 / 50x950x950 / 130x950x950			50x950x950 / 50x950x950 / 130x950x950		
	weight				kg	5.5 / 5.5 / 11.5			5.5 / 5.5 / 11.5	
Sound power level	cooling	high	dBA	51	54	58		54	58	
Sound pressure level	cooling	high/low	dBA	33/28	37/32	41/35		37/32	41/35	
	heating	high/low	dBA	34/28	37/32	41/35	42/35	37/32	41/35	42/35
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~ / 50/60 / 220-240/220		1~ / 50/60 / 220-240/220	

(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 pressure values are mentioned for a unit installed with rear suction. (6) The sound power level is an absolute value indicating the power which a sound source generates. (7) The BYCQ140CW1W has white insulations. Be informed that formation of dirt on white insulations is more visible and that it is consequently not advised to install the BYCQ140W1W decoration panel in environments exposed to concentrations of dirt.

OUTDOOR UNIT					RZQ71D3V1	RZQ100D9V1	RZQ125D9V1	RZQ140D9V1	RZQ100B9W1	RZQ125B9W1	RZQ140B9W1
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	96	100	97	103	99		
	heating	nom.	m ³ /min	48	90		90	101	100		
Sound power level	cooling	nom.	dBA	64	65	67	68	65	66		
Sound pressure level	cooling	nom.	dBA	48	50	51		49	50		
	heating	nom.	dBA	50	52	53	51	52			
Operation range	night quiet mode	level 1	dBA	43	45		46	45			
	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	pipng length	max.	OU - IU	m	50	75		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			

Heating & Cooling



INDOOR UNIT				FCQ71C8	FCQ100C8	FCQ125C8	FCQ140C8
Cooling capacity	nom.		kW	7.1 ³	10.0 ³	12.5 ³	14.0 ³
Heating capacity	nom.		kW	8.0 ⁴	11.2 ⁴	14.0 ⁴	16.0 ⁴
Power input	cooling	nom.	kW	2.28	3.22	4.02	5.36
	heating	nom.	kW	2.35	3.28	4.06	4.98
EER					3.11		2.61
COP					3.41	3.45	3.21
Annual energy consumption			kWh	1,141	1,608	2,010	2,682
Energy label	cooling/heating				B/B		D/C
	unit	heightxwidthxdepth	mm	204x840x840		246x840x840	
Weight	unit		kg	21		23	
Decoration panel	model				BYCQ140CW1		
	colour				Pure White (RAL 9010)		
	dimensions	heightxwidthxdepth	mm		50x950x950		
	weight		kg		5.5		
Sound power level	cooling	high	dBA	51	54		58
	cooling	high/low	dBA	33/28	37/32		41/35
Sound pressure level	heating	high/low	dBA	34/28	37/32	41/35	42/35
	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~ / 50/60 / 220-240/220		

(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: return air temp. 27°CDB, 19.0°CWB; outdoor temp. 35°CDB; equivalent refrigerant piping length 5m (horizontal) (4) Nominal heating capacities are based on: Indoor temperature: 20°CDB, outdoor temperature: 7°CDB, 6°CWB, equivalent refrigerant piping: 5m, level difference: 0m. (5) The sound pressure values are mentioned for a unit installed with rear suction. (6) The sound power level is an absolute value indicating the power which a sound source generates. (7) The BYCQ140CW1W has white insulations. Be informed that formation of dirt on white insulations is more visible and that it is consequently not advised to install the BYCQ140W1W decoration panel in environments exposed to concentrations of dirt.

OUTDOOR UNIT				RZQS71D7V1	RZQS100D7V1	RZQS125D7V1	RZQS140D7V1	
Dimensions	unit	heightxwidthxdepth	mm	770x900x320		1,170x900x320		
Weight	unit		kg	68		103		
Fan - Air flow rate	cooling	nom.	m ³ /min	52	96	100	97	
	heating	nom.	m ³ /min	48		90		
Sound power level	cooling	nom.	dBA	65		67	68	
Sound pressure level	cooling	nom.	dBA	49		51	52	
	heating	nom.	dBA	51	55	53	54	
	night quiet mode	level 1	dBA	47		49	50	
Operation range	cooling	ambient	min.~max. °CDB		-5.0~46			
	heating	ambient	min.~max. °CWB		-15~15.5			
Refrigerant	type				R-410A			
Piping connections	liquid	OD	mm		9.52			
	gas	OD	mm		15.9			
	drain	OD	mm		26			
	piping length	max.	OU - IU	m	30		50	
	level difference	IU - OU	max.	m	15		30	
		IU - IU	max.	m		0.5		
	heat insulation				Both liquid and gas pipes			
	total piping length	system	actual	m	-			
Power supply	phase / frequency / voltage		Hz / V		1~ / 50 / 220-240			



Indoor unit
FCQ100,125,140C8



Wired remote control BRC1E51A
Infrared remote control BRC7F532



Outdoor unit
RZQ100,125,140D9V1/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 (FCU). Check ongoing validity of certificate online: www.eurovent-certification.com or using: www.certiflash.com

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