



Air Conditioners

Heating & Cooling

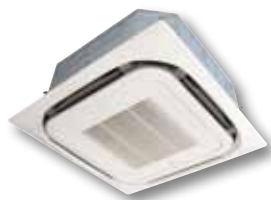
SkyAir®

High COP, Round Flow Cassette

- » **Energy label:
Up to class A**
- » **Heat pump system**
- » **Seasonal efficiency,
optimized
for all seasons**
- » **Round flow 360° air
discharge**
- » **Decoration panel
available in
different variations**
- » **Higher comfort &
efficiency with the
auto cleaning panel**



www.daikin.eu



FCQH-D8

Daikin makes it better indoors

Wherever you live and work, chances are that you benefit from Daikin's climate comfort every day. This is because Daikin develops air conditioners for all places where people are active: from homes, offices and industrial halls to shops, sports centres and restaurants. In all these places, occupants and users have specific demands regarding temperature and air quality.

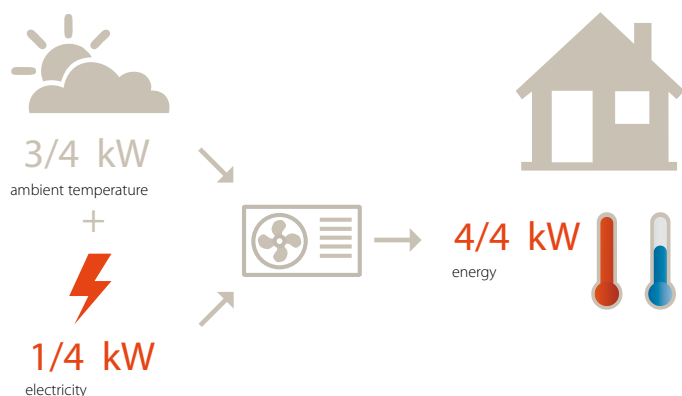
Daikin uses those demands as inspiration to develop integrated air conditioning solutions which guarantee quality and healthy indoor environments and which, over and above that, also provide considerable energy savings.

The FCQH round flow cassette model which, with its 360° air discharge pattern, provides improved air distribution in large areas with ceiling heights of up to 4.5 metres.

The decoration panel is now available in 2 different colours and blends in perfectly with the traditional and contemporary white ceilings. Additionally, 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 FCQH has one of the highest COP values on the market. The silent round flow cassette is an A energy class product that both heats and cools.

Combining highest efficiency and year-round comfort with a heat pump system



Did you know that ...

Air-to-air 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, optimized 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), 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.

Seasonal Inverter



Perfect control of air flow and indoor climate

The round flow cassette 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 sound it makes amounts to barely 28 dBA, which corresponds to rustling leaves. For even greater comfort, you can choose between various settings by simply using the remote control.

> 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 Round flow cassette 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**.

Round flow

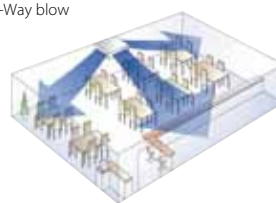


360° radial round flow enables uniform air flow distribution

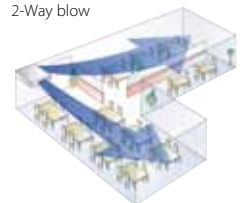
4-Way blow



3-Way blow



2-Way blow



> 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.



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.



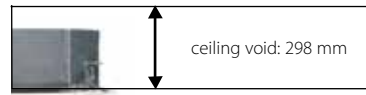
- > It is no accident that the round flow cassette was awarded the “Good Design Award”, a prestigious distinction in Japan in industrial design field.
- > **The grille is also much less visibly integrated** so that the unit is more elegant and blends in **discreetly** with the traditional and contemporary white ceilings.
- > The **limited depth** (minimum installation height of 256 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.



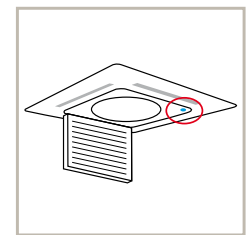
FCQH71D8



FCQH100-125-140D8



- > **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. The function will be deactivated as soon as the room temperature reaches 15°C.
- > 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 (optional).



Wired remote control BRC1E51A (Optional)



Infrared remote control BRC7F532F (Optional)

Application possibilities

- > Depending on your air conditioning need, you can have your unit either **heat or cool (heat pump)**
- > The indoor unit is suited for **pair application** (one indoor unit to one outdoor unit) and **twin applications** (maximum of four indoor units in the same space to one outdoor unit).

Heating & Cooling

Seasonal Inverter

INDOOR UNIT				FCQH71D8	FCQH100D8	FCQH125D8	FCQH140D8	FCQH100D8	FCQH125D8	FCQH140D8
Cooling capacity	Nom.		kW	7.1 ³	10.0 ³	12.5 ³	14.0 ³	10.0 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	1.88	2.50	3.48	4.36	2.430	3.530	4.640
	Heating	Nom.	kW	1.92	2.47	3.46	4.29	2.530	3.570	4.480
EER				3.78	4.00	3.59	3.21	4.12	3.54	3.02
COP				4.16	4.53	4.05	3.73	4.43	3.92	3.57
SEER				4.04	3.71	3.92	3.62	3.80	3.88	3.43
Annual energy consumption			kWh	940	1,250	1,740	2,180	1,220	1,770	2,325
Energy label	Cooling/Heating			A/A			A/A			B/B
Dimensions	Unit	HeightxWidthxDepth	mm	246x840x840	288x840x840			288x840x840		
Weight	Unit		kg	23	25			25		
Decoration panel	Model			BYCQ140CW1 / BYCQ140CW1W / BYCQ140CGW1			BYCQ140CW1 / BYCQ140CW1W / BYCQ140CGW1			
	Colour			Pure White (RAL 9010)			Pure White (RAL 9010)			
Dimensions	Unit	HeightxWidthxDepth	mm	50x950x950 / 50x950x950 / 130x950x950			50x950x950 / 50x950x950 / 130x950x950			
	Weight		kg	5.5 / 5.5 / 11.5			5.5 / 5.5 / 11.5			
Fan - Air flow rate	Cooling	Nom.	m ³ /min	21.9/12.1	34.2/17.6	34.2/21.2	34.2/23.8	34.2/17.6	34.2/21.2	34.2/23.8
	Heating	Nom.	m ³ /min	21.9/12.1	34.2/17.6	34.2/21.3	34.2/23.9	34.2/17.6	34.2/21.3	34.2/23.9
Sound power level	Cooling	High	dBA	54	62			62		
Sound pressure level	Cooling	High/Low	dBA	36/28	45/32	45/36	45/38	45/32	45/36	45/38
	Heating	High/Low	dBA	36/28	45/32	45/36	45/38	45/32	45/36	45/38
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: 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: Pt-EN14825 - inquiry version 2010 (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 ¹	96 ¹	100 ¹	97 ¹	103.0 ¹	99.0 ¹	
	Heating	Nom.	m ³ /min	48 ¹		90 ¹		101.0 ¹	100.0 ¹	
Sound power level	Cooling	Nom.	dBA	64	65	67	68	65.0	66.0	
Sound pressure level	Cooling	Nom.	dBA	48	50	51	51	49.0	50.0	
	Heating	Nom.	dBA	50	52	53	53	51.0	52.0	
Operation range	Night quiet mode	Level 1	dBA	43	45			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	Piping 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			

(1) 230V



Heating & Cooling



INDOOR UNIT				FCQH71D8	FCQH100D8	FCQH125D8	FCQH140D8
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	2.15	2.90	3.88	4.65
	Heating	Nom.	kW	2.16	2.95	3.79	4.69
EER				3.30	3.45	3.22	3.01
COP				3.70	3.80	3.69	3.41
Annual energy consumption			kWh	1,076	1,449	1,941	2,326
Energy label	Cooling/Heating				A/A		B/B
Dimensions	Unit	HeightxWidthxDepth	mm	246x840x840		288x840x840	
Weight	Unit		kg	23		25	
Decoration panel	Model			BYCQ140CW1 / BYCQ140CW1W / BYCQ140CGW1			
	Colour			Pure White (RAL 9010)			
	Dimensions	HeightxWidthxDepth	mm	50x950x950 / 50x950x950 / 130x950x950			
Fan - Air flow rate	Weight			5.5			
	Cooling	Nom.	m ³ /min	21.9/12.1	34.2/21.2	34.2/17.6	34.2/23.8
	Heating	Nom.	m ³ /min	21.9/12.1	34.2/21.3	34.2/17.6	34.2/23.9
Sound power level	Cooling	High	dB(A)	54		62	
	Sound pressure level	Cooling	High/Low	dB(A)	36/28	45/32	45/36
Sound pressure level	Heating	High/Low	dB(A)	36/28	45/32	45/36	45/38
	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 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				RZQS71D	RZQS100D	RZQS125D	RZQS140D
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.	dB(A)	65		67	
	Sound pressure level	Cooling	Nom.	dB(A)	49	51	52
Sound pressure level	Heating	Nom.	dB(A)	51	55	53	54
	Night quiet mode	Level 1	dB(A)	47	49		50
Operation range	Cooling	Ambient	Min.~Max.	°CDB			
	Heating	Ambient	Min.~Max.	°CWB			
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	Total piping length			System			
	Actual			m			
Power supply	Phase / Frequency / Voltage			Hz / V			
				1~ / 50 / 220-240			



Indoor unit FCQH100,125,140D8



Wired remote control BRC1E51A, infrared remote control BRC7F532F



Outdoor unit RZQ125,140D9V1



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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