



Air Conditioners

Heating & Cooling

SkyAir

VRV

- » High COP cassette ensures top performance
- » 360° air discharge
- » Auto-cleaning cassette
- » Even more comfort by avoiding draught
- » Cold feet become history
- » Flexibility to suit any room lay-out

Round flow cassette



www.daikin.co.za



SEER up to **A⁺**

FCQG,FXFQ



Replacement technology



Round flow cassette

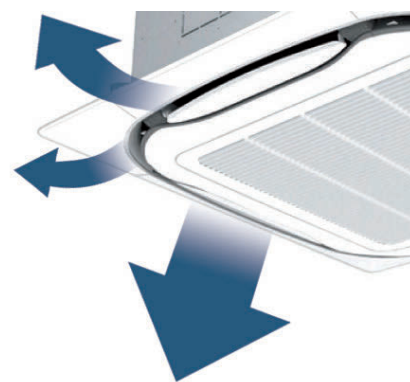


Setting the standard for efficiency and comfort

Whether we're talking about a shop, office or small public area, getting the heating and cooling right is a performance imperative, and for optimal performance you need optimal comfort in terms of temperature, humidity and air flow. To deliver this, you need the Daikin round flow cassette as part of the solution.

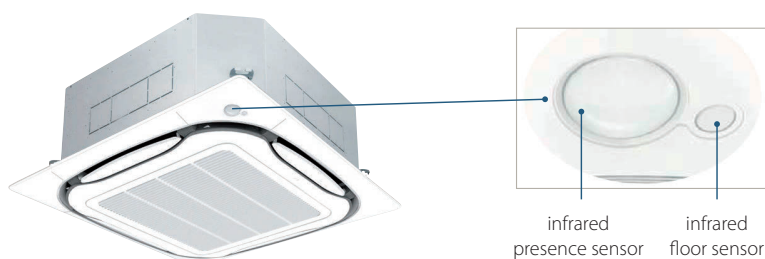
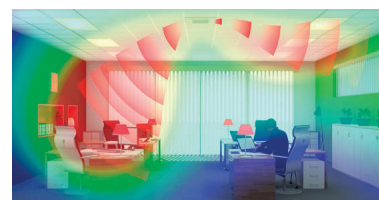


Optimal comfort



To achieve optimal comfort you need the perfect distribution of air at the right temperature. This distribution must reach all parts of the room with no dead areas, but, at the same time, with no draughts or cold spots. This is where the **360°** air flow discharge pattern of the round flow cassette, combined with its optional sensors and special features, really delivers.

- The round flow cassette delivers air through four **individually controllable flaps** to ensure that the air reaches all parts of the room.
- The optional **presence sensor** detects when people are in the room and directs the air flow away from them to minimize draughts - this is ideal for rooms and offices used by people who are stationary when there.
- The optional **floor sensor** ensures that cold feet are history. The sensor detects the average floor temperature and ensures an even temperature distribution between ceiling and floor.
- The outflow louvres are controllable to ensure an even distribution of air and temperature throughout the room and can be set to **minimize draughts** and to prevent ceiling soiling.
- In addition, the round flow cassette has a special dry programme to maintain the humidity at the most efficient level and its whisper-quiet operation, barely more than the sound of rustling leaves, ensures that your customers and staff can attend to their work undisturbed.



Top efficiency

As you would expect from Daikin, the round flow cassette is one of the top performing cassettes on the market. With a high COP and an **A+++** energy rating for both heating and cooling, it has two important features that help deliver superior efficiency.

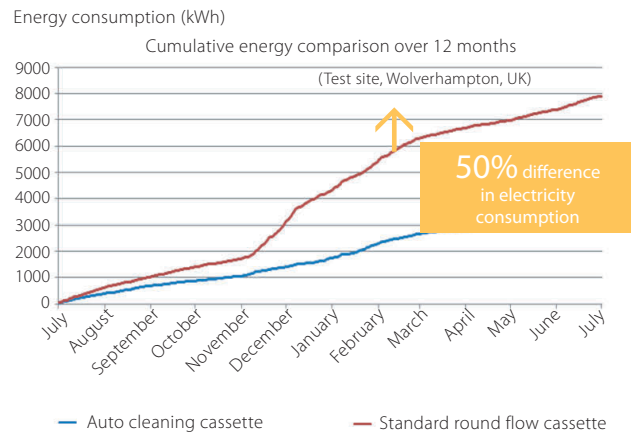
UNIQUE! Standard auto-cleaning feature

Keeping the filters clean is a critical contributory factor to high efficiency and we have incorporated a fully automatic daily cleaning feature within the standard panel to ensure this is done without you having to remember. Compared to standard solutions, this has been found to reduce energy consumption by up to 50% and helps facilitate routine maintenance.



Auto-cleaning panel

saves up to
50% →

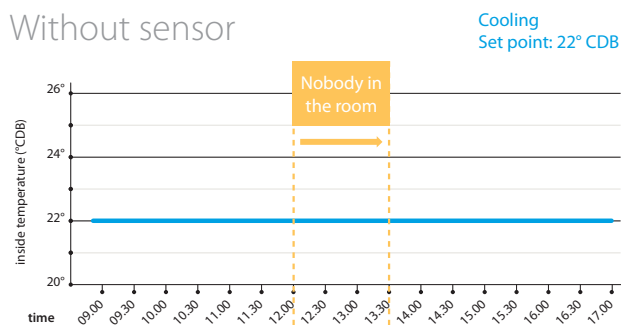


Optional presence sensor

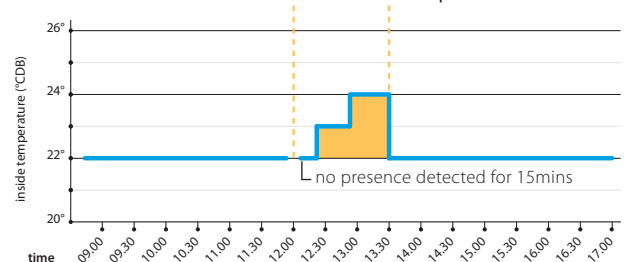
The optional presence sensor automatically reduces the air flow or switches off the unit when it detects that the room has been empty for 15 minutes and then switches it back to normal when someone enters. This feature has been shown to reduce energy consumption by up to 27% compared to a system without a sensor.

When the room has been empty for 15 minutes, the sensor maintains a reduced pre-set temperature for heating and a raised pre-set temperature when in cooling mode for up to an hour before switching off. This ensures that when people enter after a short absence the energy consumed in returning to the optimal temperature is kept to a minimum.

Without sensor



With sensor (BRC1E52A/B required)



Presence sensor

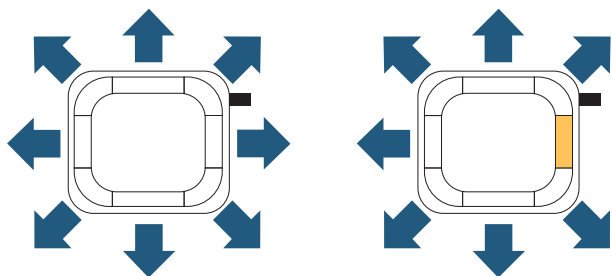
saves up to
27%* →

Flexible installation

To provide you with as much flexibility as possible in installing the system or changing the layout of your rooms, we have incorporated a number of set-up features to ensure that the cassette delivers optimally no matter what interior design conditions occur.

Closable flaps facilitate the re-design of your layout

Each of the eight flaps can be closed individually using the wired controller and this gives up to 23 different air flow patterns without loss of efficiency or comfort. This facility allows you the maximum flexibility in re-designing your interior layout without the need to re-locate the cassette - if the re-design means the cassette is close to a wall or a corner, you simply close the flaps affected.



Change room configuration/refurbishment

Cool or heat up small to large applications with a single outdoor unit

A single Daikin outdoor unit can power up to nine cassettes which can be fitted in a variety of combinations. Most rooms will use a single, individually-controlled cassette but large or irregular rooms can use a combination of up to four cassettes that are controlled as a group. This delivers optimal efficiency and comfort in each space.

For larger commercial buildings a VRV system can be used, connecting up to 64 units to a single outdoor unit.



Total control

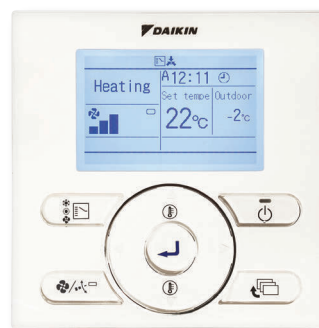
Daikin's enhanced wired controller with its advanced functionality gives you total control over all the functions and settings of the round flow cassette thus enabling you to select optimal comfort settings, establish the highest levels of efficiency and obtain the lowest operating costs. It even displays kWh usage by day, month and year allowing you monitor your energy consumption and so control costs.

The controller has three programmable schedules - for example:

- > winter for optimal heating
- > summer for optimal cooling
- > a spring/autumn for more flexible settings

In addition, there is a holiday function that allows you to override and disable the scheduled timer so that you don't waste money during the time the building is unoccupied.

Wired remote control
BRC1E52A/B
(optional)



Controller features:

- > Temperature range limit
- > Improved setback function
- > Support for presence and floor sensor
- > Off timer
- > kWh indication
- > 3 weekly timers





Technical Specifications

Round flow cassette



Fully integrated solutions for medium to large commercial environments connecting up to 64 indoor units to a single system, all individually controlled.

- Perfect comfort by simultaneous heating spaces, while cooling others
- Free heating of rooms or water possible by heat recovery
- Temperature control, fresh air, air curtains and hot water production all integrated in a single system

INDOOR UNIT			FXFQ20A	FXFQ25A	FXFQ32A	FXFQ40A	FXFQ50A	FXFQ63A	FXFQ80A	FXFQ100A	FXFQ125A	
Cooling capacity	Nom.		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	14.0
	Heating capacity		kW	2.5	3.2	4.0	5.0	6.3	8.0	10.0	12.5	16.0
Power input - 50Hz	Cooling	Nom.	kW	0.038			0.053		0.061	0.092	0.115	0.186
	Heating	Nom.	kW	0.038			0.053		0.061	0.092	0.115	0.186
Dimensions	Unit	HeightxWidthxDepth	mm	204x840x840					246x840x840		288x840x840	
Weight	Unit		kg	19		20		21		24		26
Decoration panel	Model		BYCQ140D7W1 / BYCQ140D7W1W / BYCQ140D7GW1									
	Colour		Pure White (RAL 9010)									
	Dimensions	HeightxWidthxDepth	mm	60x950x950 / 60x950x950 / 145x950x950								
	Weight		kg	5.4 / 5.4 / 10.3								
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low	m ³ /min	12.5/10.6/8.8		13.6/11.6/9.5		15.0/12.8/10.5	16.5/13.5/10.5	22.8/17.6/12.4	26.5/19.5/12.4	33.0/26.5/19.9
	Heating	High/Nom./Low	m ³ /min	12.5/10.6/8.8		13.6/11.6/9.5		15.0/12.8/10.5	16.5/13.5/10.5	22.8/17.6/12.4	26.5/19.5/12.4	33.0/26.5/19.9
Sound power level	Cooling	High/Nom.	dB(A)	49/-		51/-		53/-	55/-	60/-	61/-	
Sound pressure level	Cooling	High/Nom./Low	dB(A)	31/29/28		33/31/29		35/33/30	38/34/30	43/37/30	45/41/36	
	Heating	High/Nom./Low	dB(A)	31/29/28		33/31/29		35/33/30	38/34/30	43/37/30	45/41/36	
Refrigerant	Type		R-410A									
Piping connections	Liquid/OD/Gas/OD/Drain		mm	6.35/12.7/VP25 (O.D. 32 / I.D. 25)				9.52/15.9/VP25 (O.D. 32 / I.D. 25)				
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240/220								
Current - 50Hz	Maximum fuse amps (MFA)		A	16								

(1) The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt.
 (2) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.



FXFQ-A



BRC1E52A/B (optional)

BRC7A532F (optional)



VRV outdoor

Round flow cassette

Heating & Cooling

SkyAir Perfect for light commercial applications

Seasonal Classic



INDOOR UNIT			FCQG71F	FCQG100F	FCQG125F	FCQG140F	FCQG100F	FCQG125F	FCQG140F	
Cooling capacity	Min./Nom./Max.	kW	-/6.8/-	-/9.5/-	-/12.0/-	-/13.4/-	-/9.5/-	-/12.0/-	-/13.4/-	
Heating capacity	Min./Nom./Max.	kW	-/7.5/-	-/10.8/-	-/13.5/-	-/15.5/-	-/10.8/-	-/13.5/-	-/15.5/-	
Power input	Cooling	Nom.	2.12	2.88	3.74	4.45	2.88	3.74	4.45	
	Heating	Nom.	2.08	3.05	3.96	4.54	3.05	3.96	4.54	
Seasonal efficiency (according to EN14825)	Cooling	Energy label	A++		A		A++		A	
		Pdesign	kW	6.80	9.50	12.00	-	9.50	12.00	-
		SEER		6.10	6.50	5.30	-	6.50	5.30	-
		Annual energy consumption	kWh	390	511	792	-	511	792	-
	Heating (Average climate)	Energy label	A+		-		A+		-	
		Pdesign	kW	6.33	7.60	8.03	-	7.60	8.03	-
SCOP			4.10		4.01		4.10		4.01	
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		3.21	3.30	3.21	3.01	3.30	3.21	3.01	
		COP	3.61	3.54	3.41		3.54	3.41		
	Annual energy consumption	kWh	1,060	1,440	1,870	2,225	1,440	1,870	2,225	
	Energy label	Cooling/Heating	A/A		A/B		-		A/B	
Dimensions	Unit	HeightxWidthxDepth	mm		204x840x840		246x840x840		-	
	Weight	Unit	kg		21		24		-	
Decoration panel	Model		BYCQ140D7W1/BYCQ140D7W1W/BYCQ140D7GW1							
	Colour		Pure White (RAL 9010)							
	Dimensions	HeightxWidthxDepth	mm							
	Weight	Unit	kg							
Fan - Air flow rate	Cooling	High/Nom./Low	m³/min	15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4	22.8/17.6/12.4	26.0/19.2/12.4	26.0/19.2/12.4	
	Heating	High/Nom./Low	m³/min	15.0/12.1/9.1	22.8/17.6/12.4	26.0/19.2/12.4	22.8/17.6/12.4	26.0/19.2/12.4	26.0/19.2/12.4	
Sound power level	Cooling		dB(A)	51	54	58	54	58	58	
	Heating		dB(A)	51	54	58	54	58	58	
Sound pressure level	Cooling	High/Nom./Low	dB(A)	33/31/28	37/33/29	41/35/29	37/33/29	41/35/29	41/35/29	
	Heating	High/Nom./Low	dB(A)	33/31/28	37/33/29	41/35/29	37/33/29	41/35/29	41/35/29	
Piping connections	Liquid	OD	mm	9.52						
	Gas	OD	mm	15.9						
Power supply	Phase / Frequency / Voltage		Hz / V	1 ~ / 50 / 220-240						

OUTDOOR UNIT				RZQSG71L3V1	RZQSG100L8V1	RZQSG125L8V1	RZQSG140LV1	RZQSG100L8V1	RZQSG125L8V1	RZQSG140LV1
Dimensions	Unit	HeightxWidthxDepth	mm	770x900x320	990x940x320	1,430x940x320	990x940x320	990x940x320	1,430x940x320	1,430x940x320
Weight	Unit		kg	67	81	102	82	82	101	101
Fan - Air flow rate	Cooling	Nom.	m³/min	52	76	77	83	76	77	83
	Heating	Nom.	m³/min	48	83	83	62	83	62	62
Sound power level	Cooling		dB(A)	65	69	70	69	70	69	69
	Heating	Nom./Silent operation	dB(A)	49/47	53/49	54/49	53/49	53/-	54/-	53/-
Operation range	Cooling	Ambient	Min.-Max. °CDB	-15~46						
	Heating	Ambient	Min.-Max. °CWB	-15~15.5						
Refrigerant	Type/GWP			R-410A/1,975						
Piping connections	Piping length	OU - IU	Max. m	50						
	System	Equivalent	m	40	70					
	Level difference	IU - OU	Max. m	30						
Power supply	Phase / Frequency / Voltage		Hz / V	1 ~ / 50 / 220-240				3N ~ / 50 / 380-415		
	Current - 50Hz	Maximum fuse amps (MFA)		A	20	32			20	

(1) EER/COP according to Eurovent 2012, for use outside EU only. The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt. (3) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.



FCQG100-140F



BRC1E52A/B (optional)
BRC7AF532F (optional)



RZQSG140LV1



Round flow cassette

Heating & Cooling

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Indoor unit				FCQG35F	FCQG50F	FCQG60F
Cooling capacity	Min./Nom./Max.		kW	1.3/3.4/4.0	1.7/5.0/5.3	1.7/5.7/5.7
Heating capacity	Min./Nom./Max.		kW	1.3/4.20/5.2	1.7/6.00/6.0	1.7/7.0/7.0
Power input	Cooling	Min./Nom./Max.	kW	0.400/0.950/1.100	-/1.410/-	-/1.640/-
	Heating	Min./Nom./Max.	kW	0.230/1.200/1.840	-/1.620/-	-/1.990/-
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A++		
		Pdesign	kW	3.50	5.00	5.70
		SEER		6.35	6.48	6.22
		Annual energy consumption	kWh	193	270	321
	Heating (Average climate)	Energy label		A++		
		Pdesign	kW	3.32	4.36	4.71
		SCOP		4.90	4.29	4.00
		Annual energy consumption	kWh	949	1,426	1,646
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			3.58	3.55	3.48
	COP			3.50	3.7	3.52
Annual energy consumption (at 7°/20° nominal load)	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	18	19	
Decoration panel	Model			BYCQ140D7W1/BYCQ140D7W1W/BYCQ140D7GW1		
	Colour			Pure White (RAL 9010)/		
	Dimensions	HeightxWidthxDepth	mm	60x950x950/950x60x950/145x950x950		
	Weight		kg	5.4/5.4/10.3		
Fan - Air flow rate	Cooling	High/Nom./Low	m ³ /min	12.5/10.6/8.7	12.6/10.7/8.7	13.6/11.2/8.7
	Heating	High/Nom./Low	m ³ /min	12.5/10.6/8.7	12.6/10.7/8.7	13.6/11.2/8.7
Sound power level	Cooling		dB(A)	49		51
	Heating		dB(A)	49		51
Sound pressure level	Cooling	High/Nom./Low	dB(A)	31/29/27		33/31/28
	Heating	High/Nom./Low	dB(A)	31/29/27		33/31/28
Piping connections	Liquid	OD	mm	6.35		
	Gas	OD	mm	9.5	12.70	
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240		

Outdoor unit				RXS35K	RXS50K	RXS60F
Dimensions	Unit	HeightxWidthxDepth	mm	550x765x285	735x825x300	
Weight	Unit		kg	34	47	48
Fan - Air flow rate	Cooling	High/Super low	m ³ /min	36.0/30.1	50.9/48.9	50.2/45.0
	Heating	High/Super low	m ³ /min	28.3/25.6	45.0/43.1	46.3/46
Sound power level	Cooling		dB(A)	61	62	
	Heating		dB(A)	61	62	
Sound pressure level	Cooling	High/Low/Silent operation	dB(A)	48/-/44	48/44/-	49/46/-
	Heating	High/Low/Silent operation	dB(A)	48/-/45	48/45/-	49/46/-
Operation range	Cooling	Ambient Min.-Max.	°CDB	-10~46		
	Heating	Ambient Min.-Max.	°CWB	-15~18		
Refrigerant	Type/GWP			R-410A/1,975		
Piping connections	Piping length	OU - IU	Max.	20	30	
	Level difference	IU - OU	Max.	15	20.0	
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240	1~ / 50 / 220-230-240	
Current - 50Hz	Maximum fuse amps (MFA)			A		

(1) EER/COP according to Eurovent 2012, for use outside EU only (2) The BYCQ140D7W1W has white insulations. Be informed that formation of dirt on white insulation is visibly stronger and that it is consequently not advised to install the BYCQ140D7W1W decoration panel in environments exposed to concentrations of dirt. (3) BYCQ140D7W1: pure white standard panel with grey louvers; BYCQ140D7W1W: pure white standard panel with white louvers; BYCQ140D7GW1: pure white auto cleaning panel.



FCQG35-60F



BRC1E52A/B
(optional)

BRC7F532F
(optional)





RXS35K



Twin, triple, double twin application

- › For long or irregularly shaped rooms you can use up to four indoor units powered by a single outdoor unit.
- › All indoor units are controlled at the time.

		FCQHG	FCQG					
		71	35	50	60	71	100	125
	RZQ200C	* Operation in heating mode down to -15°C * 100m pipe run			4	3	3	2
	RZQ250C				4			2
	RZQSG71L3V1	* Operation in heating mode down to -15°C * 50m pipe run * Compatibility with D-BACS		2				
	RZQSG100L8V1		RZQSG100L8Y1	3	2			
	RZQSG125L8V1		RZQSG125L8Y1	4	3	2		
	RZQSG140LV1		RZQSG140LY1	2	4	3		2

Multi model application

- › A single multi outdoor unit can power up nine indoor units in different rooms. Of course, the climate of each room is individually controlled.
- › This assures top efficiency and optimum comfort for each separate space.

	FCQG		
	35	50	60
3MXS68G	*	*	*
4MXS80E	*	*	*
5MXS90E	*	*	*
RXYSQ-P8V1	*	*	*



Europe's new energy label: raising the bar on energy efficiency

To realise its challenging 20-20-20 environmental goals, Europe is imposing minimum efficiency requirements for energy related projects. These minimum requirements came into effect on 1 January 2013, and will be revised upward in subsequent years.

Not only does the Eco-Design Directive systematically raise the minimum requirements with respect to environmental performance but the method used to measure this performance has also been changed to better reflect real-life conditions. The new seasonal performance rating provides a much more accurate picture of actual expected energy efficiency over an entire heating or cooling season.

Completing the picture is a new energy label for EU. The present label, introduced in 1992 and subsequently modified, allows consumers to compare and make purchasing decisions based on uniform labelling criteria. The new label includes multiple classifications from A+++ to D reflected in colour shadings ranging from dark green (most energy efficient) to red (least efficient). Information on the new label includes not only the new seasonal efficiency ratings for heating (SCOP) and cooling (SEER), but also annual energy consumption and sound levels. It will allow end-users to make even better informed choices, since seasonal efficiency reflects air conditioner or heat pump efficiency over an entire season.

Daikin has a worldwide reputation based on 90 years' experience in the successful manufacture of high quality air conditioning equipment for residential, commercial and industrial use and 56 years as a leader in heat pump technology.

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