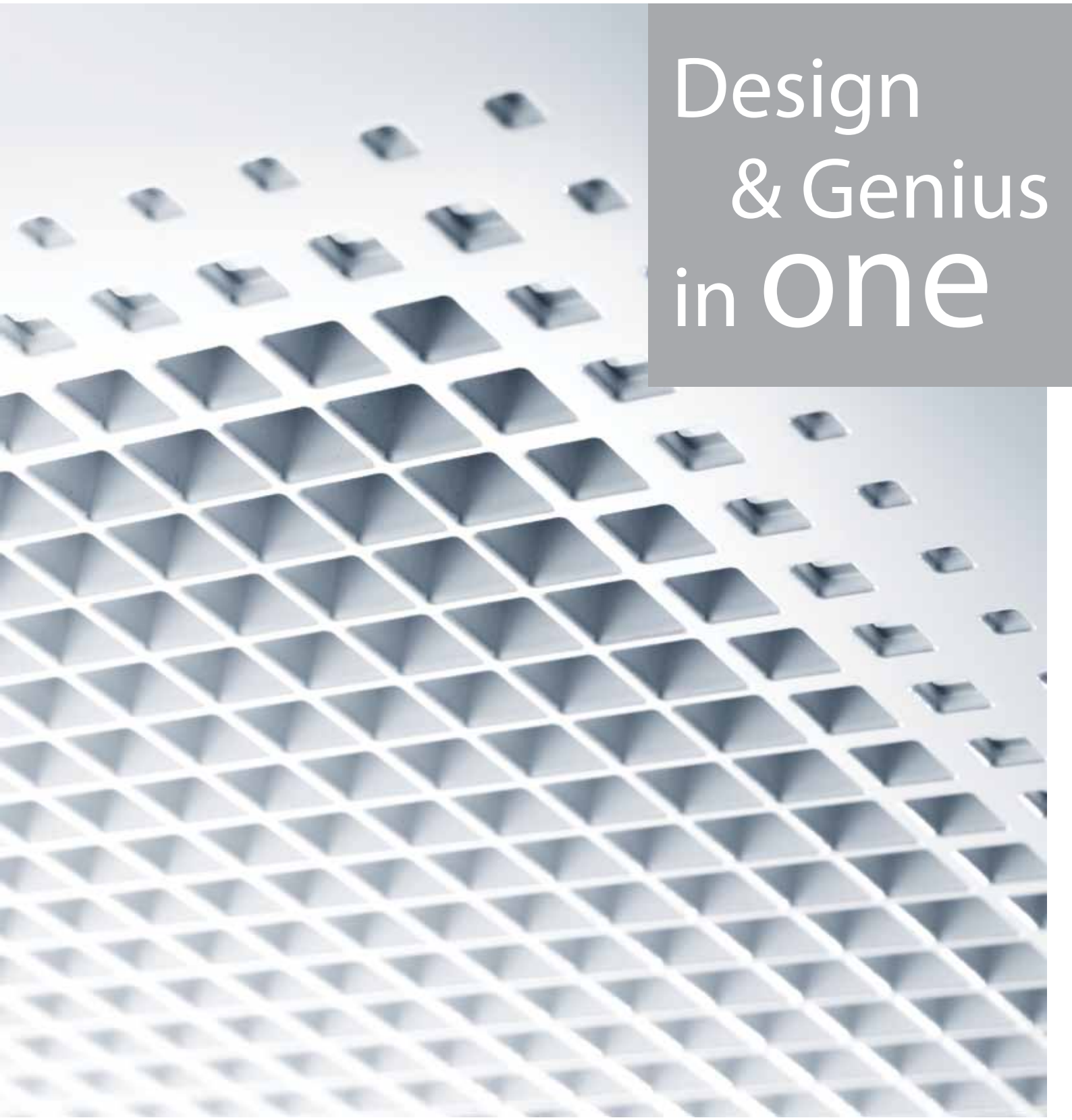
DAIKIN

FULLY FLAT CASSETTE

Design & Genius in one



Fully Flat Cassette

Design and genius in one

As a market-leader Daikin again shows the way with the launch of yet another world-class cassette that delivers superior design with high performance and low energy consumption, providing the ideal solution for offices, banks and retailers.

The fully flat cassette integrates the latest technology with energy saving functions that enhance user comfort, all within a unique design that allows the visible panel to fit flush within standard architectural ceiling panels.

Fully integrated, fully discreet

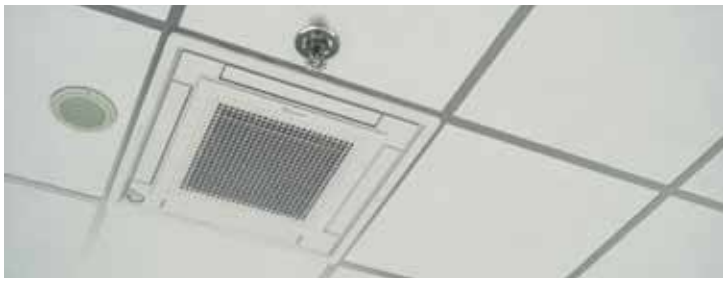
The concept our designers, from the renowned design agency yellow design, had in mind was meeting the demanding criteria of architects on design. The fully flat cassette is a unique iconic design with an elegant white finish with an optional silver or white decoration panel. The cassette blends in, resulting in a fully discreet unit.

Fully flat with the ceiling

The fully flat cassette is the first cassette that fits fully flat with the ceiling, making the unit blend discreetly in the ceiling.

Fits architectural ceiling tiles perfectly

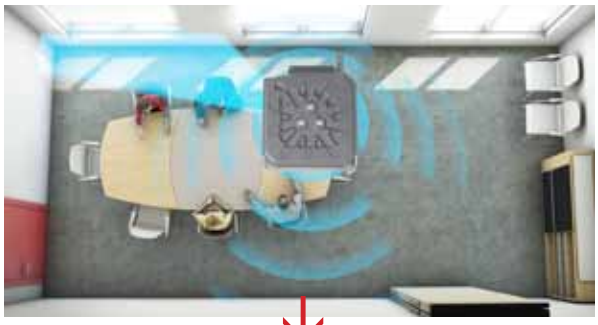
The fully flat cassette fits flush in standard European architectural ceiling tiles. The newly designed panel integrates fully within one ceiling tile enabling lights, speakers and sprinklers to be in stalled in the adjoining ceiling tiles.



Differentiated by excellence

Sensor-driven comfort

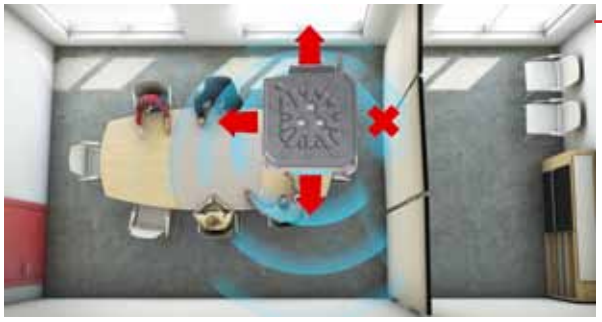
To ensure perfect comfort the fully flat cassette is fitted with two optional sensors linked to an advanced controller.



When there is nobody in the room, the presence sensor adjusts the set point or switches off the unit, avoiding unneccesary cooling or heating, thus saving energy. When motion is detected the temperature is reset to its original setpoint ensuring perfect working conditions at all time.

The sensor also adapts the direction of the airflow depending of where people are situated in the room, ensuring no draught and every individual's comfort at any time.

Because hot air rises, the natural temperature distribution in a room is for it to be warmer near the ceiling and cooler near the floor. The cassette's **'floor' sensor** detects the temperature difference and re-directs the airflow to ensure that the temperature distribution is even: cold feet are history!



Flexible solution

The need for flexible usage of space often means that temporary or permanent barriers are erected leaving the cassette close to a wall or in a corner with the resulting imbalances in airflow. Our advanced technology anticipates this and we have made it possible to use the controller to **individually open or close one of the four flaps** to restore optimal efficiency and to save on energy costs.

Top efficiency year-round

As with all Daikin products, this cassette delivers exceptional seasonal efficiency while the presence sensor has been shown to reduce energy consumption by around 27%*.

*estimated

Silent comfort

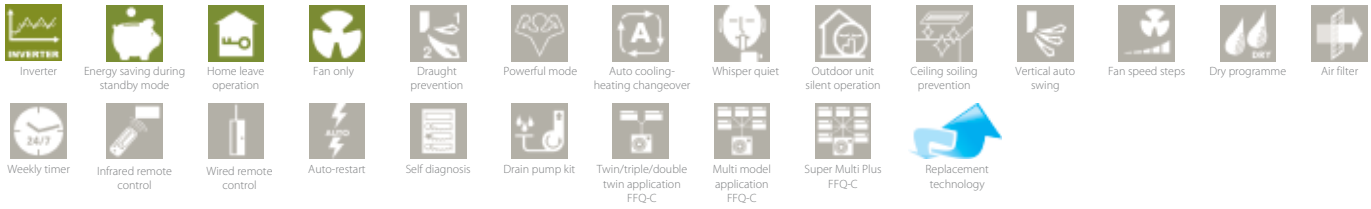
The fully flat cassette is the quietest unit in the light commercial market and, in addition to the sensors, has various functions that are designed to enhance the user's comfort and pleasure.

Air quality

The quality of the air in the room is as important as the temperature and we have fitted advanced filters to remove dust particles to ensure the air is clean. In addition, a special programme allows the humidity levels to be reduced without variations in temperature.

Intuitive control

The fully flat cassette's advanced controller provides the user with absolute control over their work environment. The large display screen and on-screen instructions combined with clearly marked function buttons allow users to quickly set their desired conditions and to focus on the job at hand.



white panel

silver and white panel

Heating & Cooling

SkyAir

Perfect for light commercial pair applications

INDOOR UNIT				FFQ25C	FFQ35C	FFQ50C	FFQ60C
Cooling capacity	Nom.		kW	2.50	3.40	5.00	5.70
Heating capacity	Nom.		kW	3.20	4.20	5.80	7.00
Seasonal efficiency (according to EN14825)	Cooling	Energy label		A	A+		
		Pdesign	kW	2.50	3.40	5.00	5.70
		SEER		5.25	5.60	5.70	5.60
		Annual energy consumption	kWh	167	212	307	356
	Heating (Average climate)	Energy label		A+			
		Pdesign	kW	2.31	3.45	3.84	3.96
		SCOP		4.12	4.09	4.10	4.17
		Annual energy consumption	kWh	784	1,182	1,311	1,329
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER			4.46	3.70	3.21	3.02
	COP			3.81	3.41	3.49	3.41
	Annual energy consumption		kWh	280	460	780	945
	Energy label	Cooling		A			
		Heating		A			
Casing	Material			Galvanised steel plate			
Dimensions	Unit	HeightxWidthxDepth	mm	260x575x575			
Weight	Unit		kg	16		17.5	
Decoration panel	Model			BYFQ60CW / BYFQ60CS / BYFQ60B2			
	Colour			White (N9.5) /White (N9.5) + Silver / White (RAL9010)			
	Dimensions	HeightxWidthxDepth	mm	46x620x620 /620x46x620 /55x700x700			
	Weight		kg	2.8 / 2.8 / 2.7			
Fan - Air flow rate	Cooling	High/Nom./Low	m^3/min	9/8/6.5	10/8.5/6.5	12/10/7.5	14.5/12.5/9.5
	Heating	High/Nom./Low	m^3/min	9/8/6.5	10/8.5/6.5	12/10/7.5	14.5/12.5/9.5
Sound power level	Cooling	High	dBA	48	51	56	60
Sound pressure level	Cooling	High/Nom./Low	dBA	31/28.5/25	34/30.5/25	39/34/27	43/40/32
	Heating	High/Nom./Low	dBA	31/28.5/25	34/30.5/25	39/34/27	43/40/32
Piping connections	Liquid	OD	mm	6.35			
	Gas	OD	mm	9.52		12.7	
	Drain	OD	mm	-			
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50 / 220-240			

(1) EER/COP according to Eurovent 2012 (2) Dimensions do not include control box (3) The sound power level is an absolute value indicating the power which a sound source generates.

OUTDOOR UNIT					RXS25K	RXS35K	RXS50K	RXS60F
Dimensions	Unit	HeightxWidthxDepth		mm	550x765x285		735x825x300	735x825x300
Weight	Unit			kg	34		47	48
Compressor	Type				Hermetically sealed swing compressor			
Sound power level	Cooling	Nom./High		dBA	62/-	-/63		63
Sound pressure level	Cooling	High/Silent operation		dBA	46/43	48/44		49/46
	Heating	High/Silent operation		dBA	47/44	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			R-410A
	GWP				1,975			
Piping connections	Liquid	OD		mm	6.35			-
	Gas	OD		mm	9.5		12.7	-
	Drain	OD		mm	18.0			-
	Piping length	OU - IU	Max.	m	20		30	
	Level difference	IU - OU	Max.	m	15		20	
Power supply	Phase / Frequency / Voltage			Hz / V	1~ / 50 / 220-240			

Twin, triple, double twin

- 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 same time.

OUTDOOR UNIT				FFQ-C 35	FFQ-C 50	FFQ-C 60
Seasonal Smart	RZQG71L8V1	RZQG71L8Y1	• operation in heating mode down to -20°C • 75m pipe run • Compatibility with D-BACS	2		
	RZQG100L8V1	RZQG100L8Y1		3	2	
	RZQG125L8V1	RZQG125L8Y1		4	3	2
	RZQG140L7V1	RZQG140LY1		4	3	
Super Inverter	RZQ200C		• operation in heating mode down to -15°C • 100m pipe run	-	4	3
	RZQ250C			-		4
Seasonal Classic	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		4	3	

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.

OUTDOOR UNIT	25	35	50	60
2MXS50H	•	•	•	
3MXS40K	•	•		
3MXS52E	•	•	•	
3MXS68G	•	•	•	•
4MXS68F	•	•	•	•
4MXS80E	•	•	•	•
5MXS90E	•	•	•	•
RXYSQ-P8V1	•	•	•	•

Heating & Cooling, Heat Recovery

VRV

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				FXZQ15A	FXZQ20A	FXZQ25A	FXZQ32A	FXZQ40A	FXZQ50A
Cooling capacity	Nom.		kW	1.7	2.2	2.8	3.6	4.5	5.6
Heating capacity	Nom.		kW	1.9	2.5	3.2	4.0	5.0	6.3
Power input - 50Hz	Cooling	Nom.	kW	0.043			0.045	0.059	0.092
	Heating	Nom.	kW	0.036			0.038	0.053	0.086
Dimensions	Unit	HeightxWidthxDepth	mm	260x575x575					
Weight	Unit		kg	15.5			16.5		18.5
Decoration panel	Model			BYFQ60CW / BYFQ60CS / BYFQ60B2					
	Colour			White (N9.5) / White (N9.5) + Silver / White (RAL9010)					
	Dimensions	HeightxWidthxDepth	mm	46x620x620 / 46x620x620 / 55x700x700					
	Weight		kg	2.8 / 2.8 / 2.7					
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low	m^3/min	8.5/7/6.5	8.7/7.5/6.5	9/8/6.5	10/8.5/7	11.5/9.5/8	14.5/12.5/10
	Heating	High/Nom./Low	m^3/min	8.5/7/6.5	8.7/7.5/6.5	9/8/6.5	10/8.5/7	11.5/9.5/8	14.5/12.5/10
Sound power level	Cooling	High/Nom.	dBA	49/-		50/-	51/-	54/-	60/-
Sound pressure level	Cooling	High/Nom./Low	dBA	31.5/28/25.5	32/29.5/25.5	33/30/25.5	33.5/30/26	37/32/28	43/40/33
	Heating	High/Nom./Low	dBA	31.5/28/25.5	32/29.5/25.5	33/30/25.5	33.5/30/26	37/32/28	43/40/33
Refrigerant	Type			R-410A					
Piping connections	Liquid/OD/Gas/OD/Drain		mm	6.35/12.7/VP20 (I.D. 20/O.D. 26)					
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/220-240					
Current - 50Hz	Maximum fuse amps (MFA)		A	16					

For more information on combination, please refer to the VRV catalogue.

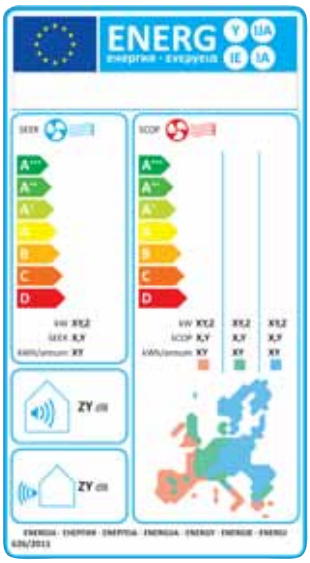
Europe's new energy label: raising the bar on energy efficiency

SEASONAL EFFICIENCY
Smart use of energy

To realise its challenging 20-20-20 environmental goals, Europe is imposing minimum efficiency requirements for energy related projects. These minimum requirements come 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, 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 modified in the meantime, 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.



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