



FULLY FLAT CASSETTE

A close-up, low-angle photograph of a white, square-patterned grille, likely a component of a DAIKIN fully flat cassette. The grille is composed of a grid of small, square, recessed cells. The lighting creates a strong sense of depth and perspective, with the cells appearing to recede into the distance. The overall color palette is monochromatic, consisting of various shades of white and light gray.

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.

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 design

The concept our designers had in mind was for an unobtrusive cassette that blends seamlessly with the décor of a modern office while meeting the demanding criteria of architects for advanced technology that totally integrates within a standard European ceiling panel, enabling lights, speakers and sprinklers to be installed in the adjoining ceiling tiles. The result is the Fully Flat Cassette with its near flush fit, 4-way air distribution and special sensors to ensure the delivery of perfect comfort. Available in crystal white or crystal white and grey, the Fully Flat Cassette is the perfect blend of design and function.

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.

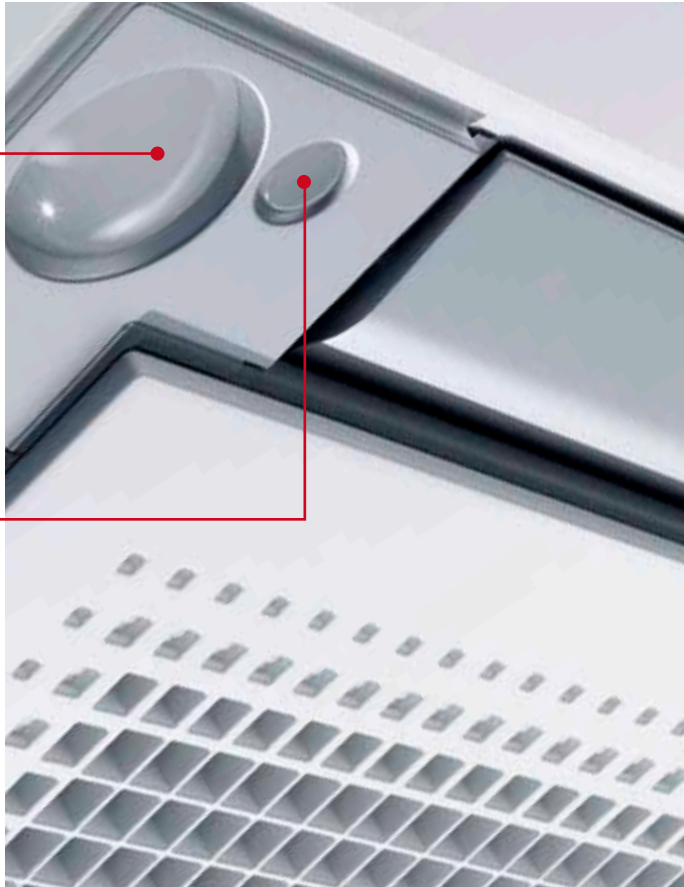
The '**presence**' sensor detects when there are people in the room and it adjusts the temperature to the previously selected 'set point' thus establishing the perfect working conditions. When the sensor establishes that the room is empty, it switches the cassette off so that the user is not wasting money on unnecessary heating or cooling. The sensor also adapts the direction of the airflow depending of where people are situated in the room, ensuring 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 any 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%*. BY USING THE CONTROLLER TO MONITOR PERFORMANCE AND ENERGY CONSUMPTION, USERS CAN REDUCE THEIR ENVIRONMENTAL IMPACT WHILE MAINTAINING PERFECT WORKING CONDITIONS.

*estimated

Silent comfort

The Fully Flat Cassette is amongst the quietest units in the market and, in addition to the sensors, has various automated 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. From setting the desired temperature to directing the airflow, from delivering the right temperature whenever the room is in use to ensuring that cold feet are history, from reconfiguring airflow to monitoring performance, the advanced controller is simple and intuitive to use. The large display screen and on-screen instructions combined with clearly marked function buttons give users total control enabling them to quickly set their desired conditions and to focus on the job at hand.



Seasonal efficiency, smart use of energy



The European Commission has set challenging targets for improving energy efficiency in the EU. These so-called 20-20-20 targets aim at a 20% reduction in CO₂ emissions, 20% more renewable energy and a 20% reduction in the use of primary energy, all by the year 2020. To realise these objectives, Europe issued the Eco-Design Directive [2009/125/EC]. This sets minimum efficiency requirements for energy related products. After 2013, all air conditioners and air to air heat pumps under 12 kW come into scope of this Eco-Design Directive.

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. Previous measurements reflected so-called nominal efficiency, a measurement of performance at one fixed

outdoor temperature and with equipment running at full power. Since a cooling or heating season involves a range of outdoor temperatures (not just the one nominal temperature in the rating) and equipment is often only running at partial load, this old rating did not properly reflect actual performance.

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

To inform consumers concerning these new energy performance standards, Europe is also introducing a new energy label. The present European energy label, introduced in 1992, has had its effect. Consumers are able to compare and make purchasing decisions based on uniform labelling criteria. The new label that comes into force on 1 January 2013 will allow end-users to make even better informed choices, since seasonal efficiency reflects air conditioner efficiency over an entire season. The new energy 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.

Today, Daikin is leading the way towards more efficient and cost-effective comfort solutions. All Daikin products are seasonal efficient, they all reduce energy and costs in a smart way.

Heating & Cooling



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	to be confirmed					
	Heating	Nom.	kW	to be confirmed					
Dimensions	Unit	HeightxWidthxDepth		265x575x575					
Weight	Unit			18		19			
Decoration panel	Model	BYFQ60CW							
Decoration panel 2	Model	BYFQ60CS							
Decoration panel 3	Model	BYFQ60B2							
Fan-Air flow rate - 50Hz	Cooling	High/Nom./Low		m ³ /min	8.5/7.5/6.5	9/8/6.5	10/8.5/7	11/9.5/8	15/12.5/10
Sound power level	Cooling	Nom.		dBA	to be confirmed				
Sound pressure level	Cooling	High/Nom./Low		dBA	31/28/25	32/29/25	34/30/26	37/33/28	44/39/33
Refrigerant	Type	to be confirmed							
Piping connections	Liquid/Gas/Drain		mm	6.35/12.7/-					
Power supply	Phase/Frequency/Voltage		Hz/V	to be confirmed					
Current - 50Hz	Maximum fuse amps (MFA)		A	to be confirmed					



INDOOR UNIT				FFQ25C	FFQ35C	FFQ50C	FFQ60C	
Cooling capacity	Nom.		kW	2.5	3.4	5.0	5.7	
Heating capacity	Nom.		kW	3.2	4.2	5.8	7.0	
Seasonal efficiency (according to EN14825)	Cooling	Energy label		B		A		
		Pdesign	kW	to be confirmed				
		SEER		4.62	5.00	5.36	5.24	
	Heating (Average climate)	Energy label		A				
		Pdesign	kW	to be confirmed				
		SCOP		4.20	3.88	3.89	3.93	
Nominal efficiency (cooling at 35°/27° nominal load, heating at 7°/20° nominal load)	EER		to be confirmed					
	COP		to be confirmed					
	Annual energy consumption		kWh	to be confirmed				
	Energy label	Cooling	to be confirmed					
Heating		to be confirmed						
Power input	Cooling	Nom.	kW	to be confirmed				
	Heating	Nom.	kW	to be confirmed				
Dimensions	Unit	HeightxWidthxDepth		mm				
Weight	Unit			kg				
Fan - Air flow rate	Cooling	High/Nom./Low		m ³ /min	9/8/6.5	10/8.5/6.5	12/10/8	15/12.5/10
Sound pressure level	Cooling	High/Nom./Low		dBA	32/29/25.0	34/30/25	39/34/27	44/38/32
Piping connections	Liquid	OD		mm	6.35			
	Gas	OD		mm	9.5		12.7	
	Drain	OD		mm	to be confirmed			
Power supply	Phase / Frequency / Voltage		Hz / V	1~ / 50/60 / 220-240/220				

(1) EER/COP according to Eurovent 2012

OUTDOOR UNIT				RXS25K	RXS35K	RXS50K	RXS60F
Dimensions	Unit	HeightxWidthxDepth		550x765x285		735x825x300	
Weight	Unit			kg		48	
Sound power level	Cooling	High		dBA		63	
Sound pressure level	Cooling	High/Low/Silent operation		dBA		48/44/-	
	Heating	High/Low/Silent operation		dBA		49/46	
Compressor	Type	to be confirmed					
Operation range	Cooling	Ambient	Min.~Max.	°CDB			
	Heating	Ambient	Min.~Max.	°CWB			
Refrigerant	Type	to be confirmed					
Piping connections	Liquid	OD		mm			
	Gas	OD		mm			
	Drain	OD		mm		12.7	
	Piping length	OU - IU	Max.	m		30	
Level difference	IU - OU	Max.	m		20		
Power supply	Phase / Frequency / Voltage		Hz / V		1~ / 50 / 220-240		
Fan	to be confirmed						

Preliminary data



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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