

Our mission

The lowest
environmental
impact



Europe's first light commercial cassette system
using R-32 refrigerant

BLUEEVOLUTION

Seasonal  Smart

A⁺⁺



It's here

The evolution of pure comfort
and efficiency



BLUEVOLUTION

Discover the next generation

When it comes to your business, only the best is good enough for your customers and staff. Daikin's Bluevolution cassette takes comfort and energy efficiency to the next level. Unique Daikin technologies keep you and your customers comfortable all year round and offer you the highest energy efficiency, reliability and control.

Bluevolution

Bluevolution technology uses a refrigerant called R-32 which is far more environmentally friendly than previous refrigerants. It has the lowest environmental footprint in it's class.

Sky Air

The solution for the light commercial sector.

Delivering industry-leading seasonal efficiency, Sky Air is a reliable, long-lasting system. It has great flexibility, with a wide range of indoor units and you get the ideal match for your specific needs and premises. Via the cloud you can make sure that the temperature is perfect for opening, no matter where you are. Daikin Sky Air will help you to create the perfect atmosphere for success.



Full of benefits
to keep your
customers happy

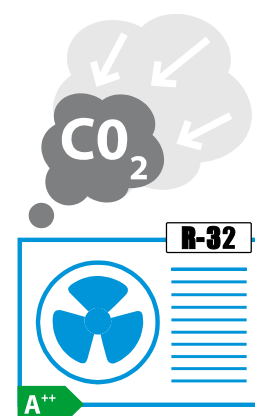
Discover the Daikin original Round flow Cassette design with Bluevolution technology

1 Europe's first light commercial cassette system using R-32 refrigerant

The unique Sky Air round flow cassette is the first commercial air conditioning unit to use R-32, a refrigerant with a Global Warming Potential (GWP) 68% lower than R-410A.

Advantages

- › Highest efficiency (SEER up to 7.35) in the market
- › Does not require yearly refrigerant containment check, reducing maintenance costs
- › 10% lower refrigerant charge



2 Unrivalled indoor comfort

The unique round flow cassette ensures superior indoor comfort at the best energy efficiency to keep your customers shopping longer

- › unique 360° air discharge to avoid hot spots
- › Intelligent sensors and variable refrigerant temperature avoid cold draughts and ensures no energy is used when not needed
- › Five fan speed steps provide the ideal air volume
- › Near silence operation thanks to quiet mode
- › A range of intuitive controls for ease of use

3 Intelligent ^{Tablet} Controller

Control your Sky Air system centrally from a user-friendly touchscreen. The intelligent Tablet Controller offers dedicated control solutions for small commercial applications and allow connection to the Daikin Cloud Service.

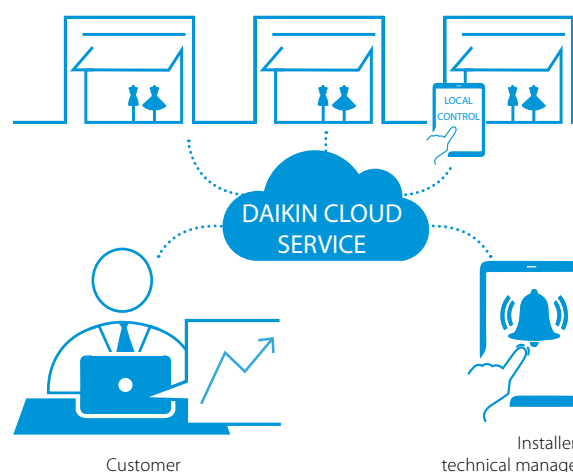


Connect to the Daikin Cloud Service

- › Control your system anytime, anywhere
- › Keep track of your energy consumption and benchmark with other sites
- › Installers and technical managers receive alarms and can provide remote technical assistance



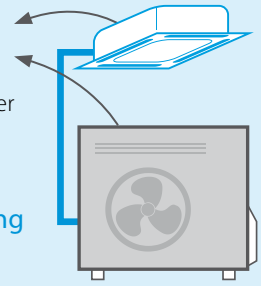
From one to ∞ sites



4 Replacement technology

If you have an existing air conditioning system you can easily upgrade it with Bluevolution technology. It's a quick and easy upgrade which won't disrupt your day-to-day operations and is also cheaper than a total refurbishment. Daikin engineers simply replace the outdoor and indoor units, but reuse the existing piping and wiring.

- ! **Replace indoor and outdoor units**
Replace Daikin and other manufacturer systems
- ✓ **Reuse existing piping and wiring**



5 Auto cleaning cassette

The round flow cassette has an auto cleaning filter and is 50% more efficient compared to a standard cassette, lowering your energy bill.

Industry-first and proven 360° air discharge design

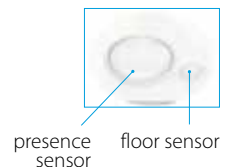


High efficiency filter

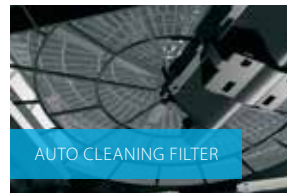
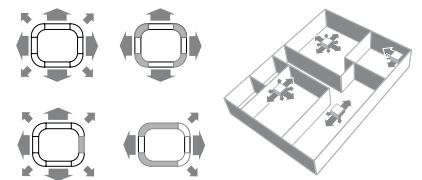
- › Increases efficiency with 50% and makes maintenance easier since the unit does not need to be opened for filter cleaning
- › Daily filter cleaning is done automatically. Once the dustbox is full it can be emptied easily with a vacuum cleaner.



Intelligent sensors increase comfort and efficiency



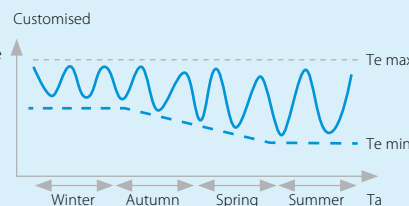
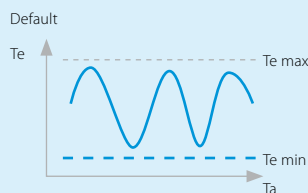
Flexible installation with individual flap control



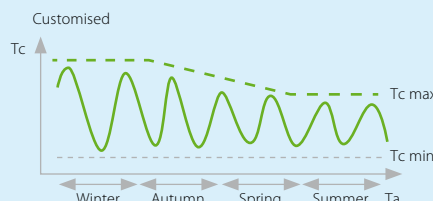
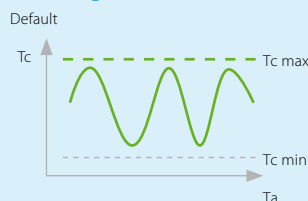
6 Variable refrigerant temperature for maximum efficiency

The variable refrigerant temperature automatically adapts the refrigerant temperature to the load. This provides the perfect balance of efficiency and comfort. It offers top seasonal efficiency all year round with quick reaction speed on the hottest days.

Cooling



Heating



Tin = indoor temperature / Tset = setpoint / Te = evaporating temperature of refrigerant

Tc = condensing temperature of refrigerant / Ta = ambient temperature

FCAHG-F + RZAG-LV1

High COP, round flow cassette

360° air discharge for optimum efficiency and comfort

- › Industry leading technology extended with R-32
- › 68% lower GWP compared to R-410A products
- › 10% lower refrigerant charge compared to R-410A products
- › Minimum 5% more efficient in cooling when compared to R-410A products
- › Duty rotation control (via BRC1E53A/B/C)
- › Power saving mode can be set to 70% or 40% of the demand (via BRC1E53A/B/C)
- › 5 different fan speeds available
- › Includes all R-410A high COP round flow cassette features



Efficiency data			FCAHG + RZAG	71F + 71LV1	100F + 100LV1	125F + 125LV1	140F + 140LV1
Cooling capacity	Nom.		kW	6.8	9.5	12.0	13.4
Heating capacity	Nom.		kW	7.5	10.8	13.5	15.5
Power input	Cooling	Nom.	kW	1.66	2.15	3.00	4.00
	Heating	Nom.	kW	1.56	2.16	3.07	3.77
Seasonal efficiency (according to EN14825)	Cooling	Energy label			A++		-
		Pdesign	kW	6.80	9.50	12.00	-
		SEER		7.35		6.94	-
		Annual energy consumption	kWh	324	452	605	-
	Heating (Average climate)	Energy label		A+	A++		-
		Pdesign	kW	5.65	9.13	9.52	-
		SCOP/A		4.54	4.64	4.63	-
		Annual energy consumption	kWh	1,743	2,753	2,879	-
Nominal efficiency	EER			4.09	4.42	4.00	3.35
	COP			4.80	4.99	4.40	4.12
	Annual energy consumption		kWh	830	1,075	1,500	2,000
	Energy label	Cooling/Heating			A/A		

Nominal efficiency: cooling at 35°/27° nominal load, heating at 7°/20° nominal load | EER/COP according to Eurovent 2012, for use outside EU only

Indoor unit			FCAHG	71F	100F	125F	140F
Dimensions	Unit	HeightxWidthxDepth	mm	288x840x840			
Decoration panel	Model			BYCQ140D7GFW1 - auto cleaning panel with fine mesh filter / BYCQ140D7GW1 - auto cleaning panel / BYCQ140D7W1W - full white / BYCQ140D7W1 - white with grey louvers			
	Colour			Pure White (RAL 9010)			
	Dimensions	HeightxWidthxDepth	mm	130x950x950 / 130x950x950 / 50x950x950 / 50x950x950			
Sound power level	Weight		kg	10.3 / 10.3 / 5.4 . 5.4			
	Cooling		dBA	53		61	
	Heating		dBA	53		61	
Sound pressure level	Cooling	High/Low	dBA	36/29	44/33	45/35	45/37
	Heating	High/Low	dBA	36/29	44/33	45/35	45/37
Refrigerant	Type			R-32			
	GWP			675			

Outdoor unit			RZAG	71LV1	100LV1	125LV1	140LV1
Dimensions	Unit	HeightxWidthxDepth	mm	990x940x320		1,430x940x320	
Sound power level	Cooling		dBA	64		66	67
Sound pressure level	Cooling	Nom.	dBA	48	49	51	52
	Heating	Nom.	dBA	50	51		52
	Night quiet mode	Level 1	dBA	43		45	
Operation range	Cooling	Ambient	Min.~Max.	-15~50			
	Heating	Ambient	Min.~Max.	-20~15.5			
Refrigerant	Type/Charge/GWP		kg/CO ₂ eq	R-32/2.6/1.8/675		R-32/3.4/2.3/675	
Piping connections	Liquid	OD	mm		9.52		
	Gas	OD	mm		15.9		
	Piping length	OU - IU	Max.	55		85	
		System	Equivalent	75		100	
		Chargeless	m		30		
Power supply	Phase/Frequency/Voltage		Hz/V	1~/50/60/220-240			

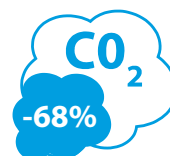
Contains fluorinated greenhouse gases

Lead the way

Cut your customers' carbon footprints with the Sky Air Seasonal Smart Bluevolution Cassette

- › Europe's first light commercial cassette system using R-32 refrigerant
- › Exclusive combination with Daikin original Auto-cleaning round flow cassette
- › 68% lower carbon footprint than R-410A equivalents
- › Highest seasonal efficiencies with a SEER rating of up to 7.35
- › 15% lower refrigerant charge than R-410A based systems
- › Does not require annual refrigerant containment check
- › Packed with new features - continuous low noise operation, 5-step fan speed control, extended piping length up to 85m
- › Available with the new Daikin intelligent Tablet controller

Look no further for unbeatable design, 360° comfort, highest energy efficiency,
lowest environmental impact and reduced lifecycle costs



Join the mission today with Daikin.
Visit www.daikineurope.com/commercial/bluevolution