

A man in a light blue suit and yellow tie is talking on a mobile phone. He is standing in a modern office with large windows. In the background, a woman in a black suit is sitting at a desk. The ceiling has circular air vents.

# Daikin Auto Cleaning Technology

A guide to better indoor environment



# Automatic filter cleaning achieves higher efficiency and comfort with lower maintenance costs

## The problem

Clogged indoor filters can cause various issues such as reduced airflow and reduced indoor heat exchange surface, which in turn causes indoor air pollution, visible dirt and reduced end-user comfort.

This will also have a knock-on effect on the compressor, by increasing its frequency and energy consumption, reducing the overall system lifetime.

Manual cleaning is required frequently in order to maximise performance, but this maintenance takes considerable effort and cost, while disrupting customers.

## What is Daikin's solution?

The Auto Cleaning Technology is available for the slim concealed ceiling units (VRV and Split) and for the Round Flow Cassette (VRV and Sky Air).

As standard, the automatic cleaner will clean the filter weekly and gather the collected dust into a dedicated dust box. An alert on a centralised controller will instruct when it is time to empty the dust box.

The dust box can be emptied easily by inserting any standard Hoover into the unit-suction port.

Thanks to automatic cleaning a constant, dust-free operation is guaranteed. In return, the overall system capacity will remain constant at all times, guaranteeing efficiency levels throughout its lifetime.



*Auto cleaning option for concealed ceiling units*



*Round flow cassette auto cleaning panel*

Scan the QR code here to watch a video which explains how the Daikin Auto Cleaning Technology can deliver great benefits to your site





The auto cleaning filter can easily be cleaned with a standard Hoover

## Better Indoor Air Quality

We spend an average of 90% of our time indoors – whether we're working, learning, shopping, relaxing or enjoying quality time with loved ones.

So ensuring the supply and circulation of fresh, clean air indoors has never been more important for indoor environment quality.

Ensuring our indoor spaces are safe, healthy and invigorating means improved wellbeing for everyone.

With the unique Auto Cleaning Technology, you can:

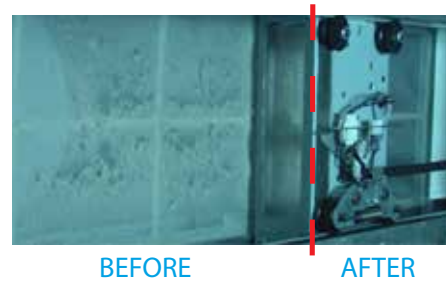
- › Enhance indoor environment quality
- › Provide a fresher environment
- › Maintain your energy efficiency
- › Enhance comfort for everyone

## A measurable difference

Clogged filters cause the indoor unit heat exchanger surface and airflow volume to reduce, so the indoor unit can't dissipate the heat into the indoor circulating air.

To compensate for this, the compressor frequency will rise and the operating pressure will increase. This will make the unit draw more power, increasing annual running costs. This increased strain on the compressor will lead to higher wear and reduced system lifetime.

With Auto Cleaning Technology you can prevent all of this from happening, making sure your system always performs at its best.



## Tested on the field

We have extensively tested this innovative product to ensure it delivers true advantages to your project.

Based on measured data, we can see that Auto Cleaning Filter for concealed ceiling units can easily deliver 10% of energy savings in cooling.

We tested several identical hotel bedrooms, making sure we had similar occupancy rates to make a fair comparison.

The results, including the aforementioned 10% energy savings, shows a clear advantage of using this solution, especially once you consider the compounded effect of saving on each and every unit in your overall system.

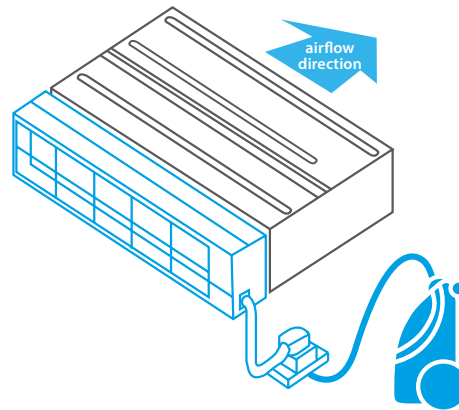
And of course it's not just energy savings. By adopting Auto Cleaning Technology you can also realise significant savings on the maintenance front.



# Meet the range

## Auto Cleaning option for concealed ceiling units

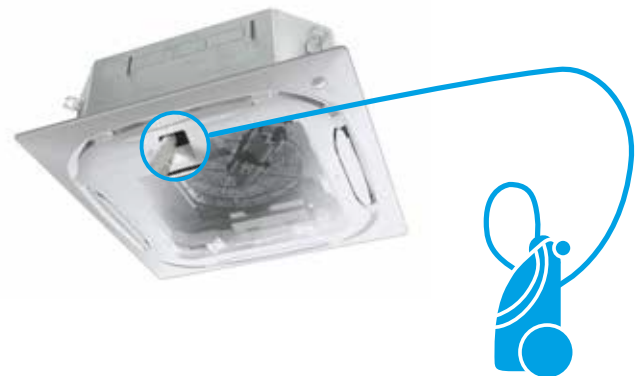
The Auto-Cleaning option is compatible with the current range of FXDA-A, FXDQ-A3 and FDXM-F9 indoor units.



Auto-Cleaning Duct	Split / Sky Air				VRV							Specification			
	FDXM-F9				FXDA-A/FXDQ-A3							Height (mm)	Width (mm)	Depth (mm)	
	25	35	50	60	15	20	25	32	40	50	63				
BAE20A62	•	•			•	•	•	•					212	764	201
BAE20A82									•	•				964	
BAE20A102			•	•								•		1164	

## Auto Cleaning panel for Round Flow Cassettes

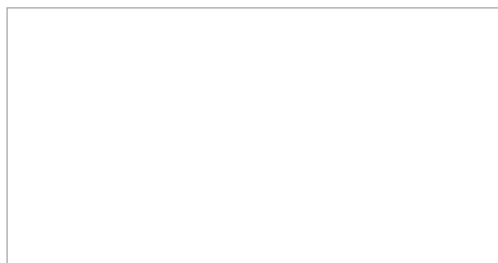
The Auto Cleaning Technology is available for all Round Flow Cassettes: FXFA-A, FXFQ-B, FCAHG-H and FCAG-B series.



		Sky Air		VRV
		FCAG-B	FCAHG-H	FXFA-A/ FXFQ-B
BYCQ140EGF	<input type="checkbox"/>	•	•	•
BYCQ140EGFB	<input checked="" type="checkbox"/>	•	•	•

Both options can be retrofitted to existing installations, contact your local sales office for more information.

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