Lo-Carbon dMEV Fan



Home Owners Ventilation System Guide

Condensation and Mould

In Britain, condensation in houses is a problem particularly where warm moist air is generated in areas like kitchens and bathrooms or by drying clothes over radiators. The moisture in the air gets left on surfaces in colder parts of the house resulting in water running down the windows leading to black mould on walls, ceilings and in cupboards.



The 'average' family produces approximately 27 pints of moisture per day.

How can we reduce humidity levels:

- Adequate Heating – Air is like a sponge, the warmer it is the more moisture it will hold
- Adequate Insulation – Prevents cold surfaces for moisture to condense
- Adequate Ventilation – Removes the excess moisture held in the warm air and provides fresh air resulting in better indoor air quality



Walls, ceiling, floors & soft furnishings quickly show signs of black mould growth.

Provide adequate ventilation

Traditional intermittent extract fans provide peaks of airflow, this means we are warming indoor air and then extracting it to outside, which is not energy efficient.

Instead, continuous running extract fans in bathrooms, kitchens and utility rooms work with the natural air flow in the house meaning you have a constant supply of fresh air which prevents mould and contaminants multiplying and spreading, giving you a healthy home, but without the heat loss associated with intermittent fans.



Costs as little as 3p per week to run!



DO NOT switch off

Vent-Axia

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Lo-Carbon dMEV Fan



What is it and why is it there?

The Vent-Axia Lo-Carbon dMEV has been designed to meet the requirements of the Building Regulations for bathrooms, kitchens, utility rooms and toilets. This fan is designed to run all of the time 24/7, keeping your home fresh, healthy and free from condensation.

What does it do?

The fan is designed to run continuously at a very low trickle rate and boost automatically when required. The fan is constantly monitoring the air it extracts and will boost itself to a higher setting when the humidity levels within the property reach a certain level. The low running rate means it has extremely low noise levels - as low as 19dB(A) (100mm) or 12 dB(A) (125mm). That's quieter than normal breathing! The fan is designed to operate at a lower flow rate than normal. You will notice it may not clear steam / condensation as quickly as you may be accustomed, but will clear condensation 100% over a longer period of time.

How will it help?

This fan will help prevent the build up of moisture in your home by removing steam and odours created whilst cooking and bathing. This will help reduce the risk of black mould forming on your walls and behind cupboards.

How do I control it?

You have a manual switch in the kitchen/ utility room to switch the fan from trickle to boost, you also have a switch adjacent to the light switch for the WC, bathroom, and en-suite.

Excessive humidity and smells

In extreme circumstances, where there is excessive moisture in the air, or strong smells are present, there may be a requirement for additional purge ventilation. The fan will not detect strong smells in the air.

Does the unit require any maintenance?

Maintenance is minimal as the fan is designed to reduce the amount of dirt build-up. However, to clean the unit the fan's power supply must be turned OFF first, then carefully pull the front panel off of the grille upwards away from the base part of the grille and wipe the inlets and front face with a damp cloth until clean. Be careful not to push dirt into the airflow sensor.

DO NOT switch off the product

The fan is set to run continuously 24 hours a day, 7 days a week.

What are the running costs?

Even though the fan will be running continuously, you won't receive a large electricity bill because the Lo-Carbon dMEV costs less than 3p a week to run. That's less than a low energy light bulb!

100mm Model

	Hours a day	Motor consumption watts	kW/h per year	Price per kW/h	Total cost per year
Kitchen	23	1.09	9.15	0.14	£1.28
	1	1.55	0.57	0.14	£0.08
Bathroom	23	1.09	9.15	0.14	£1.28
	1	1.55	0.57	0.14	£0.08
				CONTINUOUS TOTAL	£2.73

*Fan running for 23 hours on trickle and 1 hour on boost.
Example for illustration purposes only. Individual households may vary.

125mm Model

	Hours a day	Motor consumption watts	kW/h per year	Price per kW/h	Total cost per year
Kitchen	23	1.43	12.00	0.14	£1.68
	1	1.62	0.59	0.14	£0.08
Bathroom	23	1.43	12.00	0.14	£1.68
	1	1.62	0.59	0.14	£0.08
				CONTINUOUS TOTAL	£3.52

*Fan running for 23 hours on trickle and 1 hour on boost.
Example for illustration purposes only. Individual households may vary.