

Lo-Carbon Quadra HTP/HTP SELV



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 germs multiplying and spreading, giving you a healthy home, but without the heat loss associated with intermittent fans.



Costs under 10p per week to run!



DO NOT adjust your ceiling diffusers

Lo-Carbon Quadra HTP/HTP SELV



What is it and why is it there?

The Vent-Axia Lo-Carbon Quadra has been designed to meet all the requirements of the Building Regulations for bathrooms, kitchens, utility rooms and toilets. It is designed to run all of the time or intermittently which will keep your home fresh, healthy and free from condensation.

What does it do?

The fan uses a low energy motor which gives up to a 90% energy saving compared to a traditional fan, and therefore reduces your carbon footprint. The speed of the fan has been preset to give the required performance of the room being ventilated.

How will it help?

It will prevent the build up of moisture in the house, remove steam and odours during bathing and prevent black mould forming on the walls, behind cupboards etc. It will also help stop the dampness that you can get in your cupboards and wardrobes, on your clothes and furnishings, caused by inadequate ventilation.

How do I control it?

The Lo-Carbon Quadra operates all of the time on 'Normal' setting to ensure your home is ventilated at the appropriate level. If it is set to run intermittently, the fan will be operated by a light switch or an automatic sensor.

Does the unit require any maintenance?

Turn the power to the fan OFF. The fan should be inspected and cleaned annually to ensure there is no build up of dirt or other deposits. Wipe the outside of the fan with a damp (not dripping wet) cloth until clean. Wash the Filter, Cover Assembly and Impeller in warm, soapy water if they are dirty. Do not use abrasive cleaners. Dry the parts before replacing them. Turn the power to the fan back on.

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?

Its energy efficient Lo-Carbon motor means a long life and low running costs. This means that, even though it is running continuously, you won't see a large electricity bill because it costs less than 10p a week to run.

Room type	Hours a day	Motor consumption watts	kW/h per year	Price per kW/h	Total cost per year
Kitchen*	23	4	33.58	0.14	£4.70
Kitchen*	1	5	1.83	0.14	£0.26
Bathroom	23	3.8	31.11	0.14	£4.36
Bathroom	1	4	1.42	0.14	£0.20
TOTAL					£9.51

* Kitchen fan running for 23 hours on trickle and 1 hour on boost.