

# Lo-Carbon Sentinel Kinetic Plus Heat Recovery System

## 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 as little as 3p per week to run!



DO NOT adjust your ceiling diffusers

**Vent-Axia**

[www.vent-axia.com](http://www.vent-axia.com)

For any servicing requirements, contact 0844 856 0590 quoting the model reference or visit our website to choose your filter: [www.vent-axia.com/findyourfilter](http://www.vent-axia.com/findyourfilter)

## What is it and why is it there?

The Lo-Carbon Sentinel Kinetic Plus is a centralised mechanical ventilation unit with heat recovery. It is a centralised fan unit mounted in your loft space or cupboard that draws stale moist air and odours from your bathroom, kitchen, WC and removes it from the property through the circular grilles mounted in your ceiling.

At the same time the unit is drawing in fresh, filtered air from outside and providing it to the habitable rooms in the property. The supply air is passed over an internal heat exchanger which can recover up to 91% of the heat within your home, helping you save on heating costs.

---

## What does it do?

It continuously moves air around your property at such a low level that you never feel it, but it takes all the stale air from inside your house and replaces it with clean fresh air, 24 hours a day, 7 days a week.

Your home is ventilated without the need to open windows which can let in noise, fumes and can compromise security.

---

## How will it help?

It will prevent the build up of moisture in the house, remove steam/condensation and odours during bathing and cooking, 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 poor ventilation.

---

## How do I control it?

The Lo-Carbon Sentinel Kinetic Plus operates continuously on 'Normal' setting to ensure your home is ventilated at the appropriate level.

The system will automatically boost to a higher extract rate when one of the control devices is activated. A manual 'Boost' switch is also provided if a higher level of ventilation is required at any other time, e.g. on a hot day or to remove odours.

---

## DO NOT switch off the product

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

---

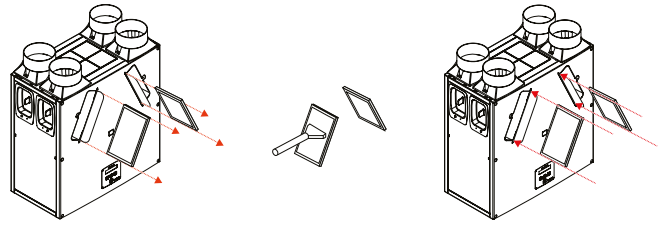
## What are the running costs?

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

---

## Does the unit require any maintenance?

Mechanical ventilation with heat recovery unit (MVHR) filters should be checked initially at 3 months post installation due to construction dust in the environment and then on a regular basis, at least once every 6 months with the filters replaced every 12 months. The replacement schedule will depend on the external and internal environments and in more polluted environments the frequency may need to be increased.



1. When the unit control panel displays "Check filters" open the front flaps and remove the filters.

2. Gently vacuum the filters

3. Replace in reverse order. Reset the automatic message, press and hold the UP and DOWN buttons for 5 seconds.

The MVHR service requirements will also vary based on the environmental conditions, but we recommend that a maximum period to a full service is 5 years from the date of installation, the decision to service the unit more frequently than this can be made if required on inspection of the filters.

The replacement schedule will depend on the external and internal environments and in more polluted environments the frequency may need to be increased.

---