



Lo-Carbon PoziDry Pro™

Home Owner Guide

Home Owner 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.



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What is it and why is it there?

The Lo-Carbon PoziDry Pro™ is a positive input ventilation unit designed to prevent the conditions that lead to condensation and mould growth. The Lo-Carbon PoziDry Pro™ is the perfect solution for houses that need condensation control as it will quietly and gently provide drier air into your home.

What does it do?

Ventilation in your home is provided for three reasons:

1. Supply fresh air for the occupants.
2. Helps ensure good indoor air quality, which needs removal of enough moisture, odours, and other indoor pollutants.
3. Helps maintain good thermal comfort; continual airflow helps circulate heat around the property

Air is drawn into the Lo-Carbon PoziDry Pro™ via the filters located on the side of the unit and uses a sensor to monitor the temperature in the loft, automatically adjusting the air volume when necessary. The air is then gently introduced into your home through the discreet diffuser in the hallway. This in turn pushes the moist, stale air in your home out through window vents or natural leakage points such as keyholes.

The unit will continuously ventilate silently in the background whilst in 'Trickle' mode. Once the unit automatically senses excess heat being lost into the loft the airflow will increase to 'Energy Recovery' mode to recover heat that would otherwise be lost through the roof. During summer months should the loft exceed 28°C the unit will enter 'Stand-By' mode in order stop the circulation of warm air allowing for a more comfortable living environment.

How will it help?

The Lo-Carbon PoziDry Pro™ provides fresh, tempered and filtered air into the home and creates an environment where the damaging effects of condensation find it hard to exist, benefiting your health and the health of your home.

How do I control it?

The unit is set up to run automatically to provide the correct performance for your home. You do not need to change any settings or control it.

DO NOT switch off the product

Your Lo-Carbon PoziDry Pro™ 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 will not see a large electricity bill because it can cost as little as 22p per week to run.

| 2 Bed House | Hours a day | Motor consumption watts | kW/h per year | Price per kW/h* | Total cost per year |
|-----------------|-------------|-------------------------|---------------|-----------------|---------------------|
| Trickle | 23 | 4.3 | 36.10 | 0.30 | £10.83 |
| Energy Recovery | 1 | 7.6 | 2.77 | 0.30 | £0.83 |
| | | | | | £11.66 |

* Energy prices vary depending on energy supplier and tariff. Figures shown here are based on the July 2023 price cap. Total cost does not include the use of the heater on the heater model