

Case Study



Lo-Carbon PoziDry Pro™

A Healthy Home

Vent-Axia has put its Lo-Carbon PoziDry Pro™ Positive Input Ventilation (PIV) to the test in a real home environment.

The PoziDry Pro™ was installed in a 3-bed home in Reading which suffered from an ongoing condensation and mould problem. Air quality data from before and after the PIV installation showed a sharp decline in both total volatile organic compound (VOC) levels and mould VOC levels after the system was installed, whilst also successfully tackling condensation and mould.

The home was occupied by a family of four, three of whom have asthma and two have eczema, which can both be aggravated by the presence of mould. Before the PIV system was installed there was no mechanical ventilation, the family just opened windows to try to tackle the condensation and mould issues that were present in the bathroom, bedroom and on window seals. The family noted that when they went somewhere with good air quality their health issues improved.

After the PoziDry Pro™ was installed in the home, the total VOC levels (a general indicator of IAQ) dropped by 40% while mould VOC levels (an assessment of the actively growing mould in a home) dropped by 67%. There was also no longer condensation upstairs and no appearance of new mould. This emphatically illustrates how PIV significantly improves indoor air quality (IAQ) in the home. And with better IAQ there are fewer allergens or triggers, helping with health problems including asthma and eczema.

Designed to improve IAQ and prevent moisture build-up within social housing properties, the PoziDry Pro™ PIV provides a highly effective solution to help households and landlords control condensation and mould, as well as offering high levels of air filtration. Providing fresh, tempered air into the home the PoziDry Pro™ creates an indoor environment where condensation and mould find it hard to exist, benefiting occupants and avoiding the damaging effects on the building. Air is drawn into the PoziDry Pro™ unit via the loft from outside and incoming air is filtered via the high grade G4 or F7 filters removing nasty contaminants before gently introducing it into the habitable areas of the property. The diffuser directs the airflow upwards where the incoming air mixes with the warm air that gathers at ceiling height.

The PoziDry Pro™ also comes with Smart Sense™ technology to help reassure landlords that they are compliant with the Homes Act. The Smart Sense™ datalogger tracks fan usage to ensure it is used as intended. This includes data such as days run, hours on trickle or boost, and even more specifically, hours run on boost triggered by the humidity sensor. If a fan has been switched off and mould appears, the landlord will realise why and can discuss a solution with residents. This helps landlords make homes safer for residents by helping to avoid condensation and mould which can lead to respiratory problems and allergies.

Boasting quick and simple installation for contractors the PIV unit is highly energy efficient, unobtrusive, near silent and helps provide a healthy environment for residents. The PoziDry Pro™ is designed for larger properties with a loft to install the unit in.

"Before the PIV was installed the family had to leave a window open at all times to reduce condensation and they had mould actively growing around the home. Now, the PIV system has created a home environment where mould no longer grows and condensation has ceased to form."

Tom Wodcke, Product Manager at Vent-Axia

Alleviation
of asthma
and allergy
irritation

Combat
condensation
& mould

Whole
house air
purification

Creating a
healthy home