

Effective Ventilation Systems For Retrofit



VENTI

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To provide optimal ventilation for habitable spaces & wet areas

We are on a mission to educate and inspire the nation to use proper ventilation.

We are empowering you to breathe freely - we are dedicated to our belief that everyone should have access to clean and healthy air.

Our purpose is to promote healthier indoor living by delivering fresh air through efficient and continuous mechanical ventilation.



Loren Jenner
Chief Executive Officer



Ashley Woolgar
Managing Director

Who we work with:

Registered Social Landlords

Working closely with Local Authorities and Housing Associations, we provide a tailored service with an individual building / property approach. We can assist retrofit projects as well as responsive repairs and planned works.

Retrofit Designers, Coordinators & Contractors

For retrofit companies we can not only provide designs, calculations, installation advice and commissioning support, we can also assist with enhancing their services to their clients to ensure they are relevant and their offering stands out from the crowd.

Private Landlords & Home Owners

Private landlords and home owners' requirements differ slightly from socially owned properties, and we are ideally placed to provide varying levels of design and specification of products to suit all budgets and aesthetic needs.



The Retrofit Programme

38% of the UK's homes were built before World War 2, resulting in the UK having the oldest housing stock in Europe. These homes were very "naturally ventilated" (leaky!) due to construction methods and the prevalence of single glazing and chimneys. With the all-important national goal of the reduction of our carbon footprint (Net Zero Carbon by 2050), these properties have become a focus for needing to be brought up to standard via the retrofit programme.

Retrofit measures include many aspects such as insulation upgrades (external walls, internal walls, cavities, lofts etc), window upgrades (double/triple glazing, seals, hardware etc), solar PV, heat pumps, heating and ventilation upgrades and more.

One major consequence of these measures is the increase in airtightness of the dwelling. Without proper ventilation in place alongside other retrofit measures, this results in an increase of condensation, damp and mould, as well as a very harmful decrease in indoor air quality.

How traditional ventilation methods are ineffective

Traditionally, homes have been ventilated using intermittent extract fans in wet areas such as bathrooms and kitchens, with the air supply coming from trickle vents.

Trickle vents are typically long slot holes cut into window frames - the reality is that 99% of the time they are kept closed by the occupants. Even when they are open, they let cold air, noise, and insects in, and release the warm air out.

As we improve the thermal efficiency of our homes, which increases air tightness, these traditional methods just don't meet today's needs.

Proper ventilation includes centralised or decentralised mechanical ventilation with heat recovery systems. This creates a balanced airflow within the dwelling, removing pollutants and other particles as well as introducing fresh filtered, pre-heated air into the dwelling. This also greatly enhances the thermal comfort, reducing heating bills and carbon emissions.



The VENTI Solution

Holistic approach to ventilation

We don't just look at ventilation as an isolated measure. We take time to understand the construction of the building and it's surroundings, the resident's needs and any installation challenges, as well as what other measures are being undertaken.

Integration with other measures

Asking questions to determine the focus for the project / property and what measures are being undertaken both now and in the future, we ensure that the proposed ventilation solution aligns with and compliments the other aspects of the scheme.

Focus on thermal optimisation & comfort

It is very important that any proposed ventilation solution does not compromise the thermal efficiency of the building or the thermal comfort of the residents. We ensure our solutions enhance these elements.

Contributes to decarbonisation

Buildings are significant CO₂ contributors. A well-designed and optimised ventilation solution can reduce both the energy consumption and the harmful emissions of a building, whilst maintaining air quality and optimal indoor temperatures.

Advice & design service

We provide advice on optimal ventilation solutions for the project / property, as well as a design service. This includes airflow rates, vent types and positions, and bespoke solutions for hard-to-treat properties.

Ensuring compliance

Our designs and solutions ensure your schemes are compliant with all relevant regulations and standards. This includes Approved Document F of Building Control and PAS 2030/2035. We can provide documentation to demonstrate compliance.

Installation & commissioning support

Whilst most retrofit contractors have their own preferred installers, we provide advice and support to these teams to ensure the ventilation is installed and commissioned correctly so it is most effective.

Pre- and post-project monitoring

Often the best way to demonstrate the effectiveness of a proposed solution is to provide monitoring before and after the retrofit measures have taken place. This provides hard evidence and data to your clients. We can help with this process, enhancing your offering and giving your clients peace of mind.



Case Study

Caerphilly County Borough Council - PAS2035 Retrofit Project

81 properties in Caerphilly benefitted from EWI, CWI and solar PV AS and decentralised ventilation as part of optimised retrofit programme 3.1

LivGreen is a specialist Retrofit Contractor which provides a one-stop-shop for social and private landlords in delivering high quality retrofit projects.

Steven Wilson, Technical Director at LivGreen, states ventilation isn't only about circulating air within the property. It's about creating a healthier, more comfortable living environment for families and occupants.

One of the key areas that we look forward to in a property is how well ventilated it is. Ventilation can help reduce energy consumption and utility costs associated with heating. Adequate ventilation controls moisture levels, preventing the build up of damp and mould. This is particularly important with the introduction of Awaab's Law.

One of the huge benefits of the VENTI solutions is that they are easy to install, which means that we're in residents homes for less time, reducing the impact and inconvenience for our clients residents.

Our team leverages cutting edge technology to deliver results that exceed expectations. LivGreen are proud to work with VENTI on achieving this goal.



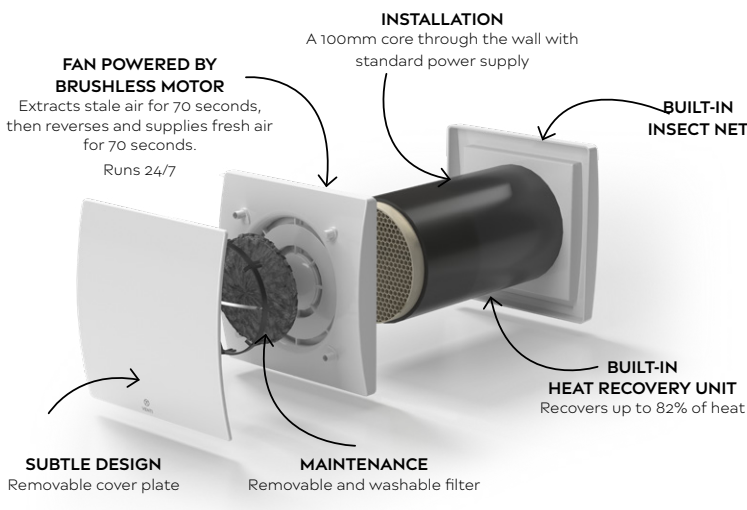


FLUXO®

Continuous Mechanical Fresh Air Supply Unit

Decentralised mechanical ventilation unit, with alternating air flow and heat recovery. For installation in habitable rooms such as living rooms and bedrooms. Improving living conditions by alternating between supplying fresh air and extracting stale air in habitable spaces. Suitable for any level of airtightness in a building.

For a better flow balancing, two units are commonly used in parallel operation, having opposite and synchronised air flows.



QUALITY

This product is fully manufactured in Europe using high quality components. 5 year warranty.



COST TO RUN

On average, this unit cost £5 per unit to run per year.



NOISE LEVEL

Very quiet running - from 10db.

Features and Benefits



Alternate flow - supplies fresh air in then extracts the stale air for 70 seconds. The 70 second cycle runs continuous 24/7.



Multiple modes of operation allow users complete control. Optional switch operation can be set to extract only.



The unique impeller design features winglets that provide increased efficiency with minimal noise disruption.



Extremely low energy consumption.



Stylish & modern fascia which is easily removed for cleaning without the need for tools.



ARIA®

Continuous Mechanical Extract Unit

A discreet, quiet continuous-running mechanical extract ventilator with constant volume function and low consumption. Ideal for installations in wet rooms such as bathrooms, toilets, kitchens and utility rooms.

The unit runs continuously at the selected minimum (trickle) speed and automatically increases to an intermediate speed if the built-in humidistat is activated. It can also be manually boosted to max. speed via a light switch or motion sensor. A better choice over conventional intermittent extract fans to ensure prevention of damp issues.

- In normal mode the fan will draw air out of the room on trickle speed.
- If the humidity rises above the pre-set level the fan will then boost until the humidity drops, then it will return to trickle speed. Also includes run-on timer settings and a manual switch activation for boost mode.
- The benefit of this unit over a conventional intermittent extract fan is that moisture in the room is continuously drawn out. On average, a standard extract fan will shut off after 15 minutes, but in reality a shower tray, for example, takes over 90 minutes to dry.

Features and Benefits



Continuous running with boost flow when needed.



Intelligent humidity control increases ventilation only in response to actual variations in humidity.



Intelligent run-on timer adapts the fan operation to the users' habits.



The unique impeller design features winglets that provide low noise and increased efficiency.



Very low power consumption: the EC motor is optimised for continuous running.



Stylish & modern fascia which is easily removed for cleaning without the need for tools.



VENTI

The Clean Air Movement

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