



ADVANCED MAINTENANCE UK LTD

Heating, Plumbing, Ventilation, Renewables

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Case Study: Unitherm e.VEN EAHP 5 kW Installation



Unitherm e.VEN EAHP 5 kW Installation



Background

This project was undertaken to replace an outdated heating and ventilation unit that had become increasingly inefficient and costly to maintain. The solution chosen was the Unitherm e.VEN EAHP 5 kW, an all-in-one system providing heating, ventilation, hot water, and heat recovery.

As one of the newest technologies available on the UK market, the e.VEN recovers heat from indoor air before it is expelled, achieving efficiency levels of over 500% (COP) and offering a sustainable alternative to conventional boilers or separate ventilation systems. Its compact size and versatile design make it particularly suited to retrofit applications, where space and efficiency are critical.

This installation represents an important step forward in adopting innovative renewable technologies, reinforcing Advanced Maintenance UK Ltd's role in delivering future-ready solutions for residential heating and ventilation.

Scope of Works

Advanced Maintenance UK Ltd carried out a complete unit replacement and commissioning, including:

- Isolation and safe removal of the existing system
 - Drain down and disposal of redundant sections
 - Alterations to plumbing and electrical services to suit the new unit
 - Delivery and installation of the Unitherm e.VEN 5 kW system
 - Running of room and outdoor sensors, plus Ethernet cable for uplink controls
 - Core drilling for new vents and ducting, with full insulation
 - Adjustment of original ducting and reinstatement of loft ductwork to restore performance
 - System refill, pressure testing, and full commissioning to building regulation standards
 - Floor and surface protection throughout, with a full clean-down on completion
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Unitherm e.VEN EAHP 5 kW Installation



Outcome

The project delivered a fully commissioned system that passed all manufacturer checks and is supported by a 7-year warranty. By reinstating disconnected loft ducting and correcting legacy issues, our engineers ensured the new system achieved its full performance potential.

The Unitherm e.VEN EAHP now provides residents with reliable heating, hot water, and balanced ventilation, all while significantly improving energy efficiency and reducing long-term running costs.

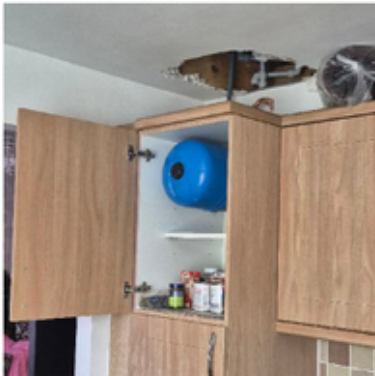
This project not only met the immediate need for a modernised system but also showcased the potential of exhaust air heat pump technology in residential environments. By integrating heating and ventilation into one compact unit, the installation delivered both sustainability and occupant comfort, while reinforcing Advanced Maintenance UK Ltd's expertise in installing innovative, first-to-market technologies.

Client Benefits

- **Efficiency:** High seasonal efficiency (COP >500%) reduces operating costs and energy use.
 - **Comfort:** Reliable heating, hot water, and ventilation with improved indoor air quality.
 - **Sustainability:** Future-proof technology reducing the property's carbon footprint.
 - **Assurance:** Commissioning certification and a 7-year manufacturer's warranty.
 - **Innovation:** Confidence that Advanced Maintenance UK Ltd can deliver advanced renewable technologies with minimal disruption.
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