

CPA Engineered Solutions

Tel: 01501 825024
E-Mail: sales@cpa-group.com
Web: www.cpa-group.com



Natural & Hybrid Vertical Vane Roof Ventilation

As Specialist independent solutions providers we will give:

- Expert Advice
- Design and Installation advice
- Pre and post sales support



Established in 1992, CPA Engineered Solutions is committed to finding the right solution for our client's business challenges that delivers energy savings and tangible benefits. We are the sole UK distributor and stockist of Edmonds Hurricane Natural & Eco-Power Hybrid Roof ventilation products.

The comfort and safety levels of building occupants are a growing concern in modern-well sealed business. Traditionally, excess heat and fumes have been exhausted from buildings by expensive to run, noisy, high maintenance mechanical extraction systems.

The EcoPower True Hybrid Ventilation technology is a highly efficient hybrid turbine roof ventilator. It combines wind-powered vertical vane turbines with a high efficiency electronically commutated (EC) motor meaning that optimum ventilation can be achieved, independent of natural conditions.



We can design and install a bespoke roof ventilation solution for your needs with the benefits of:

- Low Energy Consumption
- Significantly lower noise levels, up to 14.5dB(A), than traditional powered fan assisted vents
- Advanced EC motor technology with single phase input
- Edmonds Air IQ Customised Control or BMS Control Options
- Patented hybrid ventilator design that enables an open throat to improve airflow performance
- Natural Ventilation with Zero Operational Costs
- Boosted Fixed Ventilation available when required through power mode
- Turbine design eliminates potential air back-drafting
- Can be utilised to drive an economiser system when conditions permit
- Lightweight aluminium construction for ease of installation and minimal roof loading

Applications

Large spaces with high occupancy usage are often accompanied by excess heat build-up. In many cases, natural ventilation is not adequate during times of high usage periods. EcoPower allows demand controlled ventilation to significantly increase the rate of extraction. This delivers better airflow control, improved occupant comfort and reduces the load on cooling systems. EcoPower can also be configured and programmed to automatically respond to set temperatures and/or humidity using IQ control platform or 0.10V inputs to your Building Management System (BMS). Applications include Factories, Warehouses, Leisure & Fitness & Data Centres to name a few.



Ecopower allows natural ventilation during the day to meet or exceed minimum outdoor air ventilation rates requirements of ASHRAE standard 62.1. The powered mode can be activated at night by a timer or temperature sensor. The night purge operation removes excess heat in the room or building allowing cool night air to reduce the stored energy and cool the building down. This reduces daytime cooling loads and lowers energy consumption.



Case Study Extract

When the University of Washington committed to achieving and exceeding the high sustainability rating benchmarks set by LEED Gold, the smart choice for ventilation came down to just one product. EcoPower significantly reduced the building's energy footprint without compromising occupant comfort. Other benefits included reducing the area requiring air conditioning by 40% reducing energy consumption to 180-200W per unit which equated to a 63-76% saving. Significant noise reduction was also achieved.

[Natural or Hybrid ventilation systems for environmental and climate control we have the flexibility to provide you with a bespoke solution to suit your project's specific requirements.](#)