

Air Handling/Chiller Equipment/Fans

Fläkt Woods

Fläkt Woods (FW) is a global leader in air management. We design and manufacture systems – for air treatment, diffusion and ventilation – that can be precisely specified to optimise indoor air quality (IAQ) and working comfort for building occupants, as well as to manage air movement for industry and infrastructure. Our systems are also specifically developed to minimise energy consumption and so help reduce both operating costs and environmental impact.

Whatever the specific operational and indoor climate needs of individual buildings, FW systems can be installed in fully compatible combinations to deliver the ideal functionality and performance required.

FW is No.1 for AHUs in the UK and across Europe. Worldwide, the FW Group serves over 100 countries from 20 manufacturing and engineering sites.

Uniquely Integrated Solutions

For mechanical engineering specifiers, it is notable that FW is the only company capable of fully providing such integrated air management solutions.

FW has the most comprehensive product range available, including:

- Air Handling Units – large central-plant or floor-by-floor units
- Chillers
- Chilled Beams
- Other Air Terminal Devices – including displacement ventilation, fan coils, VAV, grilles & diffusers
- Fans – axial, centrifugal, mixed flow, toilet extract & roof mounted extract, & energy-saving *iFan*

Whether the application is simple or complex, we have the same fundamental objective for each customer: to provide a total solution that is practical, cost efficient and energy efficient.

Helping Compliance with Regulations

FW systems reflect our recognition that legislation is increasingly focused on improving IAQ and reducing energy consumption. For example, recent increases in minimum ventilation rates, and proportional time limits on high temperatures, have contributed to raised statutory thresholds for operational and energy efficiencies within occupied buildings.

Selection and specification of FW products and systems can significantly contribute to compliance with European regulations, specifically:

- **Energy Performance of Buildings Directive (EPBD)** & with the latest UK Building Regulations (2006 edition)
- **Part F** – Ventilation
- **Part L2** – Conservation of fuel & power, for both new & existing buildings

All units in FW AHU ranges are Part L2 compliant. The **Econet** range, with its unique integrated and fully optimised heat recovery section, is particularly suitable for systems where Part L2 is mandatory.

Air Handling Units

FW manufactures high performance AHUs to ensure optimisation of quality, performance, reliability and service life. We design units to minimise life cycle cost by keeping low internal pressure drops and, hence, typically low Specific Fan Powers (SFPs).

The Ranges

eQ - The new eQ AHU range from Fläkt Woods is the result of an intensive R&D programme and over 100 years of experience. eQ is available with air flows up to 12.5m³/s. The range covers every possible need, from single supply air units to integrated solutions with heat recovery and advanced controls. The customer adapted eQ PLUS offers a range of optimised functions, for example, hygiene applications and gives greater flexibility in materials and configuration. eQ PLUS is available with air flows up to 32.5m³/s.

The wide range means that the unit is available for every area, whether inside a plant room or on the roof. eQ and eQ PLUS are suitable for installations for industrial premises and public buildings as well as dwellings, schools, offices, shops and hospitals.

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VEKA – Small units with and without energy recovery for ceiling voids. The VEKA range is 30mm double skinned panels and is designed for ceiling void applications. It can come with heater sections (either electric or LPHW) and cooling sections (either DX or CHW). Plate heat exchangers are available for energy recovery.

Standards & Certification

All units are designed, tested and manufactured to applicable standards including ISO 9001 (quality assurance), ISO 14001 (environmental management systems) and EMAS (environmental management). All casings meet performance requirements of the CEN EN1886 standard. All units are certified by Eurovent.

Capacity

Airflow ranges are:

- **eQ range** – up to 12.5m³/s
- **eQ PLUS range** – up to 32.5m³/s
- **VEKA Range** – up to 1.2m³/s