

Fläkt Woods

Energy Recovery & Space Saving

Traditional AHUs comprise separate components for heating, cooling and energy recovery. Only rarely do these function simultaneously – and typically, only 35-40% energy recovery efficiency is possible.

With the FW patented **Econet** system, these functions are linked into a single component. This not only allows reduced unit length, providing significant space saving, but up to 75% energy recovery efficiency is achievable. Running costs are reduced and investment payback time is shortened. Also, by utilising Indirect Evaporative Cooling (IEC), required chiller loads can be reduced by up to 50%.

Other energy saving devices available include thermal wheels and heat exchangers.

Chillers

Energy saving is also a fundamental design feature of the FW **Climafläkt** range of chillers. These are Eurovent and CE certified, achieving high Energy Efficiency Ratings (EERs) and European Seasonal Energy Efficiency Ratios (ESEERs). Savings of up to 25% are achievable, particularly through high efficiency during part load operating times.

The range includes options for:

- Interior & exterior installation
- Air-cooled or water-cooled
- Cooling capacities up to 1500kW
- Scroll or screw compressors
- Heat pump or free cooling
- Low energy consumption
- Low sound & vibration levels

Chilled Beams

The NEW IQ Star Stella free-hanging multi-service chilled beam is now available characterised by modularity, flexibility, sustainability and energy efficiency. The aluminium profiled beam incorporates an array of integrated features ranging from direct / indirect lighting with either satin louvred or the new prismatic diffuser options, PIRs, smoke detectors, speakers and sprinklers.

Thanks to pioneering nozzle technology and smart controls, the air flow is always sufficient and adapted to suit requirements. Stella's modularity, Flow Pattern Control and Energy Control functions allow flexibility within the office layout. Good indoor air quality is achievable despite organisational changes and renovations without the need to change the installation.

Because occupancy levels within a typical office can vary from day to day even from hour to hour, Stella's smart control panel with Normal, Energy Saving and Boost modes enables easy adjustment of the air flow. This means that whether an office or meeting room is empty or crowded, the Stella beam provides sufficient air flow. Not only does it save a lot of energy when the room is not in use, it also keeps the employees comfortable.

Axial Fans / Car Park Ventilation

The FW range of technically advanced axial fans offers a comprehensive choice of solutions for use in commercial, catering, educational, healthcare, retail, residential, leisure and industrial environments.

The range includes ATEX compliant options and fans with high temperature capability. Other types of fans, including boxed and centrifugal fans, are also available for certain applications in addition to axial options.

The FW Jet Thrust Fan provides ventilation and instantaneous air management for enclosed car parks as well as service roads, tunnels, hangars and larger areas.

On Site Support Services

FW commitment to optimum efficiency and performance extends beyond system installation. Expert support for end-users continues to be available long-term for AHUs and whole building ventilation systems via:

- Condition monitoring of AHU systems & fans
- Dynamic balancing
- Tailored maintenance contracts
- On-site refurbishment & upgrade where required

Technical advice for installers is also always available.

