# we bring air to life Solutions for Building Air Comfort and Fire Safety

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# A global leader in air technology solutions with Nordic roots

85% of the Life Cycle Cost in a ventilation system is generated by the running energy cost. At Fläkt Woods we are committed to the continuous development of our complete range of Air Technology products and solutions, providing substantial energy and cost savings. Fläkt Woods is a global leader with a proven and impressive track record. High-performing components are an obvious starting point and every 5 minutes we deliver an air treatment, air ventilation or air diffusion product for complete climate systems all over the world. Reducing the environmental foot print through innovative products and energy efficient solutions has been at the core of our business since the start and that mindset is transferred through our unrivalled industry expertise into every project. Every day.

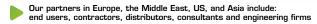




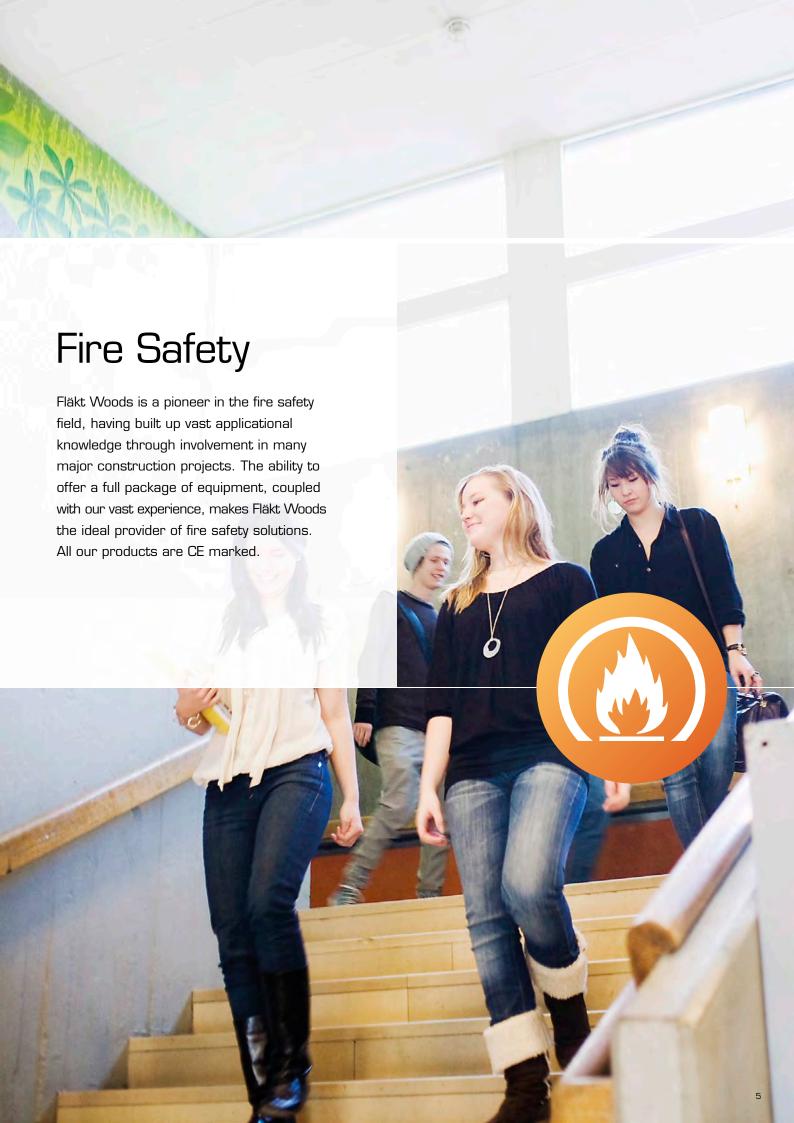




Air Technology innovation is in our roots and we strongly believe that we are bringing "Better Air to Life"!













# Office Buildings

Office buildings are built for people, and the quality of the indoor environment will affect their health, comfort, and productivity. Managing this as efficiently as possible is a challenge. 85% of the Life Cycle Cost for office buildings is represented by HVAC systems, and the components offered through Fläkt Woods will ensure that overall costs are greatly reduced and the energy efficiency is enhanced.



Air Comfort

50 countries are equipped with Fläkt Woods air handling units

### **CORE PRODUCT-RANGE FOR OFFICE BUILDINGS**







# Shopping Malls

Complex ducted systems are the traditional approach to enclosed car park ventilation in shopping malls, with fresh air levels and constant running of a ventilation system resulting in high day-to-day running costs. Our Thrust Fan System does not need ducts, which reduces your capital installation cost, and can be designed using sensor monitoring systems so that selected fans run only when necessary.



Fire Safety

fire safety from Fläkt Woods installed

### **CORE PRODUCT-RANGE FOR SHOPPING MALLS**



# Education

When investing in Education infrastructure, there is a central priority: ensuring that all indoor spaces are configured and controlled for a flourishing learning environment. Fläkt Woods is not only an experienced HVAC systems integrator, we also have a unique position where our systematic demands can be closely met by component features, and component development is always done with the functionality of the entire system in mind.



Air Comfort

### **CORE PRODUCT-RANGE FOR EDUCATION ENVIRONMENTS**







# Hygiene

With experience from over 300 installations in hospital and healthcare facilities, Fläkt Woods is the safe choice for air management systems. Our solutions provide ultimate function for high-demand facilities, such as operating theatres. We deliver low life-cycle costs for the entire building whilst meeting the highest standards of energy efficiency.



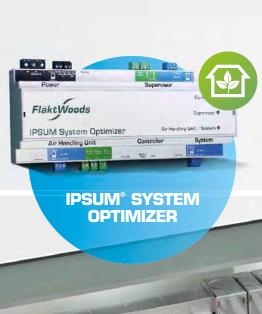
Air Comfort

### **CORE PRODUCT-RANGE FOR HYGIENE APPLICATIONS**



Air Treatment
Controller

We have equipped 470 hospitals and 330 pharma plants in 22 countries worldwide



Advanced product and system controls – to maximize energy efficiency and return on your investment



**AIR HANDLING UNIT** & ENERGY RECOVERY **UNIT CONTROLLER** 



## Advanced selection tools

Life Cycle Cost sums it all up and Fläkt Woods' selection tools support the calculation.

Within the industry we use an analysis approach called "Life Cycle Cost" when designing ventilation systems. It balances the cost of better components and smarter system control with savings in maintenance and energy costs over the system's life time. Not surprisingly, a smarter system comes out on top!



The life time cost is typically 85% energy costs, 10% initial investments, and 5% maintenance.



### **ACON®**

Easy-to-use and powerful selection. ACON® is a powerful and easy product selection tool for air handling units. It is the best and most advanced of its kind on the web. It offers rapid product selection to specific project requirements and provides you with all the technical information.

- Product dimensions
- Noise data
- Performance data
- Efficiency data
- Life Cycle Cost
- Product documentation
- Export of Dxf and Dwg files

acon.flaktwoods.com



### ExSelAir®

ExSelAir® is Fläkt Woods' web based product selection tool for calculation and documentation of air terminal diffusers. The tool shows all products, functions, and features visually, which makes it very easy to use.

### ExSelAir® contains:

- 3D presentation of all products
- 3D presentations of the flow patterns in selected rooms
- A calculation and dimensioning tool
- Installation and maintenance manuals
- Connections with MagiCad or Revit (plugin or database)

### exselair.flaktwoods.com

### **FAN SELECTOR**

Extended features for efficient Fan Selection. The Fläkt Woods Group Fan Selector is probably the most comprehensive tool of its kind in the world. The software has been developed based on many years experience of producing fan selection tools.

The Fan Selector Tool is available to all customers and prospects. To get access you need only a browser with an Internet connection. The tool can be configured with your own preferences (Language, metric, LCC calculation set up, currency, etc). The tool currently includes a large number of the Fläkt Woods axial fans, centrifugal fans, box and duct fans, and our Energy Recovery Units.

# Sustainability and responsibility

For quality and environmental assurance, the Fläkt Woods products and components are designed, manufactured, and tested to international quality standards, including ISO 9001, ISO 14001, and OHSAS 18001. Our commercial and technical sales support teams are there to assist you in choosing the right products, and meeting your certification targets according to LEED, BREEAM, and HQE standards, among others. The technical performance is in accordance with Eurovent standards and Fläkt Woods is a member of the AMCA.

### Sustainability for Fläkt Woods and our business is strongly influenced by four areas



Maximize energy savings to reduce the environmental and carbon foot print in full comfort



Health and Protection for occupants, and building damage prevention



Being financially viable for our customers and optimising their Return-On-Investment and Life Cycle Cost



Strong relations with our customers and markets for sharing and learning



# Centres of Excellence

At Fläkt Woods, we grow our excellence by investing in research and development in our production facilities, Centres of Excellence, Research Centres, and state of the art laboratories.

We believe that reliability, sustainability, and innovation turn up thanks to accomplished engineering teams developing best-in-class products. Moreover, our engineers work closely with the sales and technical support teams and our customers to achieve great success and validating the development. Excellent examples of this are our innovative SEMCO® Total Energy Recovery Wheel and IPSUM® optimisation system. This is realized by applying our i³ values:



**INNOVATIVE** AIR TECHNOLOGY FOR BEST PERFORMANCE

### Principles of the SEMCO® Total Energy Recovery Wheel

The SEMCO® recovery wheel provides both sensible and latent heat recovery between the supply air and the exhaust air of a building ventilation system. It is composed of a flat and corrugated aluminum media rotor of uniform width, treated with selective absorbent, and optimized for both heating and cooling recovery, dehumidification, and transfer of moisture. Our new Semco® rotary heat exchanger radically reduces the energy costs by up to 50%.





### **INVESTMENT** IN OUR PRODUCTS, SALES FORCE, AND OPERATIONS

### Fläkt Woods Academy

Fläkt Woods recognises that excellent customer service demands skilled techncial and sales teams. Therefore, we have developed an advanced e-learning academy to sustain the development and improvement of Fläkt Woods' employees expertise. Thus the customer benefits from the ability of the Fläkt Woods team to assist in their projects.



### **INTELLIGENT** PRODUCTS AND SYSTEMS DEVELOPMENT

### **Special Applications**

Fläkt Woods' expertise covers areas requiring high levels of skill to offer customized and reliable solutions for highly specialised industries such as Pharmaceutical, Marine, Oil & Gas. Our long list of references for installations in cruise ships and offshore platforms proves the quality and reliability of Fläkt Woods products. With our proven track record, our design and engineering departments support our customers by enhancing basic ventilation products and air treatment solutions to meet all requirements.