



***eQ Air Handling Unit***  
*With the eQ PLUS range*



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***FlaktWoods***



## **The future of ventilation - available today.**

The new eQ AHU range from Fläkt Woods is the result of an intensive R&D programme and over a 100 years of experience. eQ is available in 21 sizes with air flows ranging from 0.1–12,5 m<sup>3</sup>/s. The range covers every possible need, from single supply air units to integrated solutions with heat recovery and advanced controls.







## Fläkt Woods launches more optimised functions in eQ PLUS.

The customer adapted range eQ PLUS offers a range of optimised functions for, for example, hygiene applications and gives greater flexibility in materials and configuration.

Clever design and a dedicated supply chain means that eQ can meet the needs of the most urgent, fast track projects. The flexible design, energy efficient components and brilliant control system provides a new benchmark for the industry, meeting tomorrow's demands for performance, cost and energy efficiency, today.

This modern air handling unit is designed to meet all conceivable air

handling requirements and standards in Europe. eQ conforms to air tightness classes according to CEN and is manufactured in a certified workshop with regard both to quality (ISO 9001) and to the environment (ISO14001). eQ is certified by Eurovent.

### Typical installations

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

### eQ TOP FEATURES

- Energy efficient
- High performance
- Hygienic design
- Integrated controls
- Modularity/common cross sections
- Corrosion class C4
- Service friendly
- Fast commissioning
- Short delivery times





### **Standardised**

Value for money with short delivery time are two important factors that are made possible by the standardised eQ range.

### **Optimised**

Nine very commonly occurring sizes where optimised functions such as integrated COOLER and rotary heat exchanger etc are available.

### **Flexibility**

With eQ it is possible to combine single or double level casings, which permits shorter installations. For very narrow installations eQ Top is available, with all connections upward (sizes 008 and 011).

### **Smart control equipment**

Standardised control platform with modular construction gives great flexibility. Communication as standard.

### **Energy efficiency**

Energy efficiency is one of the cornerstones of the Fläkt Woods vision. The components are constructed to be as energy efficient as possible.



### **Customer adapted**

eQ PLUS has a wider range of components and variants than eQ, which increases the functionality and flexibility.

### **Special requirements**

For installations that require functionality over and above what is offered in the eQ range the solution is eQ PLUS.

### **Extended flexibility**

Parts from eQ and eQ PLUS can be combined. The unit's platform can be standardised while a selection of the functions are customer adapted. This makes the eQ PLUS range one of the most flexible on the market.

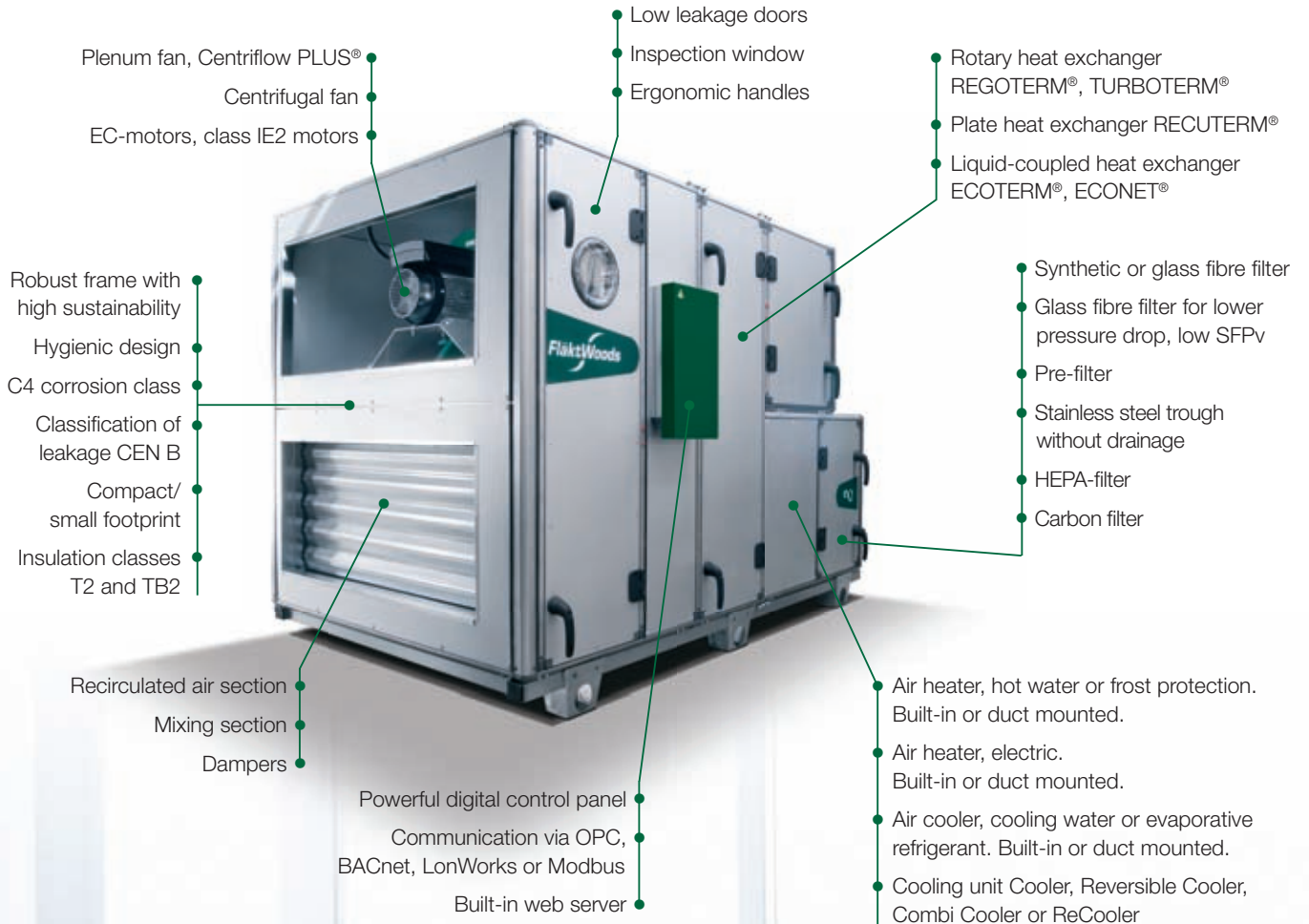
### **Customer adapted control equipment**

Customer adapted control equipment for every conceivable application.

### **Energy solutions**

Fläkt Woods can offer world-class energy solutions, for example ReCooler, Combi Cooler and Twin Wheel system.

# Flexibility to meet your needs





# Fläkt Woods – the system specialists

A carefully designed system can achieve more than the sum of the integral parts. High-performing components are an obvious starting point. But it is by combining products into a system, utilizing smart controls, one can achieve the best energy solutions. This strategy requires that the systems and individual components are designed together. It takes thorough knowledge of the individual products impact on each other and the ultimate combined effect to reach perfection. Fläkt Woods develop and produce components as well as design systems. That's why we can combine the parts into harmonic overall solutions.

Econet



Air handling units



Smart cooling distribution



Variable fans





Controlling the system



Fan coils



Air terminal device and control of airflow



## Save Energy, Economy and Environment with Fläkt Woods

Energy optimization is an important aspect of ventilation, where Fläkt Woods have acclaimed expertise. We use e<sup>3</sup> to highlight products and solutions that are particularly effective. They serve a dual purpose of saving both your long-term economy and our environment.



## Unique control equipment

Irrespective of whether you are a consultant, a contractor or an operator, you will notice the advantage of choosing eQ factory-fitted control equipment. Our control equipment has been developed to simplify project planning, installation and operation; to give you more time for other issues.

The integrated control equipment is supplied complete with all necessary field components; programmed, configured and tested. It is the perfect solution for both small installations with simple control functions and for larger plants with data communication requirements. The Fläkt Woods' control platform supports communication via an open standard protocol that allows simple and cost-effective integration with building automation systems. The air handling unit is connected to other systems by the system integrator. The control equipment naturally fulfils the EC directives MD, EMC and LVD.





# Powerful and easy product selection

**Acon is our tool for the selection and planning of air handling units. This is a web-based program that is updated regularly without the user having to download and install updates. Acon gives you all the information and support required for good planning.**

- Product dimensions
- Noise data
- Efficiency
- LCC
- Delivery time
- Dxf and Dwg files can be exported to CAD software
- Support is available for Autodesk's i-drop
- Documentation always up to date



## Delivery options

### ControlMaster

#### Compact standard control cabinet

- Flexible standard design
- Standard control panel
- Control cabinet integrated in fixed panel/roof
- Field components installed if possible

#### Compact terminal interface

- Flexible standard design
- Supplied without a control panel
- Terminal interface integrated in fixed panel/roof
- Field components installed if possible

### ControlMaster PLUS

Custom adapted for installations with specific and high demands for flexibility for example choice of constituent components, electric enclosures and design. Because this is not always in stock the delivery time may be longer.

#### External control cabinet

- Order based design
- Choice of control panel
- Control cabinet for wall mounting
- Field components supplied

#### Integrated control cabinet

- Order based design
- Choice of control panel
- Control cabinet integrated in unit
- Field components installed if possible

#### Terminal interface

- Flexible terminal interface for example for own regulator
- Supplied without a control panel
- Electrical cabinet integrated in unit
- Field components installed if possible

# Dimensions

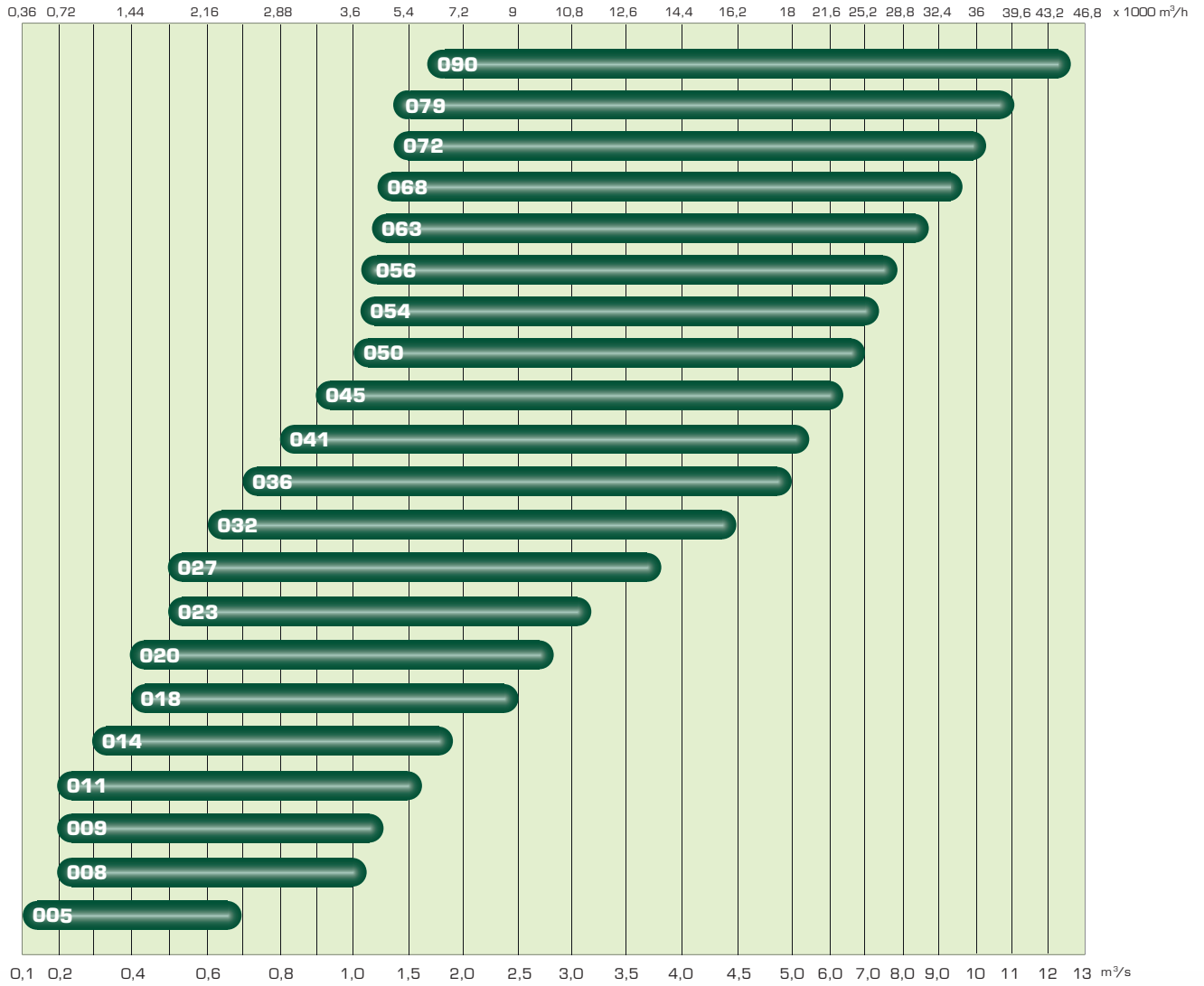
Size	Height H <sub>1</sub> (mm)	Height H <sub>2</sub> (mm)	Width (mm)	Length Rotary heat exchanger (mm)	Length Plate heat exchanger (mm)
005*	476	952	800	1500	1850
008*	576	1152	1100	1600	2200
009	776	–	800	–	–
011*	676	1352	1200	1800	2300
014	776	–	1100	–	–
018*	776	1552	1400	2100	2900
020	1076	–	1100	–	–
023*	926	1852	1700	2400	3100
027	1076	–	1400	–	–
032	1026	2052	1800	2700	3900
036	1376	–	1400	–	–
041	1076	2152	2000	2950	4000
045	1376	–	1700	–	–
050	1226	2452	2300	3450	4400
054	1376	–	2000	–	–
056	1676	–	1700	–	–
063	1376	–	2300	–	–
068	1676	–	2000	–	–
072	1376	2752	2600	3750	5100
079	1676	–	2300	–	–
090	1676	–	2600	–	–

\*In stock unit with pre-configured components for faster delivery.



More dimensions and data for other heat recovery functions are presented in the technical catalogue and the product selection tool ACON. The length includes: unit with short bag filters, fans with smallest motor and heat exchanger.

# Flow chart





# We Bring Air to Life

Fläkt Woods is a global leader in air management. We specialise in the design and manufacture of a wide range of air climate and air movement solutions. And our collective experience is unrivalled.

Our constant aim is to provide systems that precisely deliver required function and performance, as well as maximise energy efficiency.

## Solutions for all your air climate and air movement needs

Fläkt Woods is providing solutions for ventilation and air climate for buildings as well as fan solutions for Industry and Infrastructure.

### Air Handling Units (AHUs)

Modular, compact and small AHU units. Designed to ensure optimisation of indoor air quality, operational performance and service life.

### Air Terminal Devices and Ducts

Supply and exhaust diffusers and valves for installation on walls, ceiling or floor are all included in our large range and fit all types of applications.

### Chilled Beams

Active induction beams for ventilation, cooling and heating, and passive convection beams for cooling. For suspended or flush-mounted ceiling installation – and multi-service configuration. With unique Comfort Control and Flow Pattern Control features.

### Residential ventilation

A complete range of products for residential ventilation. Consists of ventilation units, exhaust air fans and cooker hoods designed to optimise indoor comfort and save energy.

### Energy recovery

Dessicant-based product and systems that recover energy, increase ventilation and control humidity.

### Fans

Advanced axial, centrifugal and boxed fans for general and specialist applications. Comprehensive range including high temperature and ATEX compliant options. Engineered for energy efficiency and minimised life cycle cost.

### Chillers

Air-cooled and water-cooled chillers with cooling capacity up to 1800kW. Designed to minimise annual energy consumption in all types of buildings.

### Controls and drives

Variable speed drives and control systems, all tested to ensure total compatibility with our products. Specialist team can advise on energy saving and overall system integration.

### Acoustical Products

A complete line of sound attenuating products, including rectangular and round silencers, Media Free silencers, custom silencers and acoustic enclosure panels.