

**eQ Hygiene**

*Air Magic by Fläkt Woods*



**PLUS**

AIRTREND Ltd  
Predstavništvo u Beogradu  
Kumanovska 14, 11000 Beograd  
Tel: 011/3836886, 3085740  
Faks: 011/3444113  
e-mail: gobrid@eunet.rs  
web: www.airtrend.rs

**FläktWoods**

# When hygiene is especially crucial

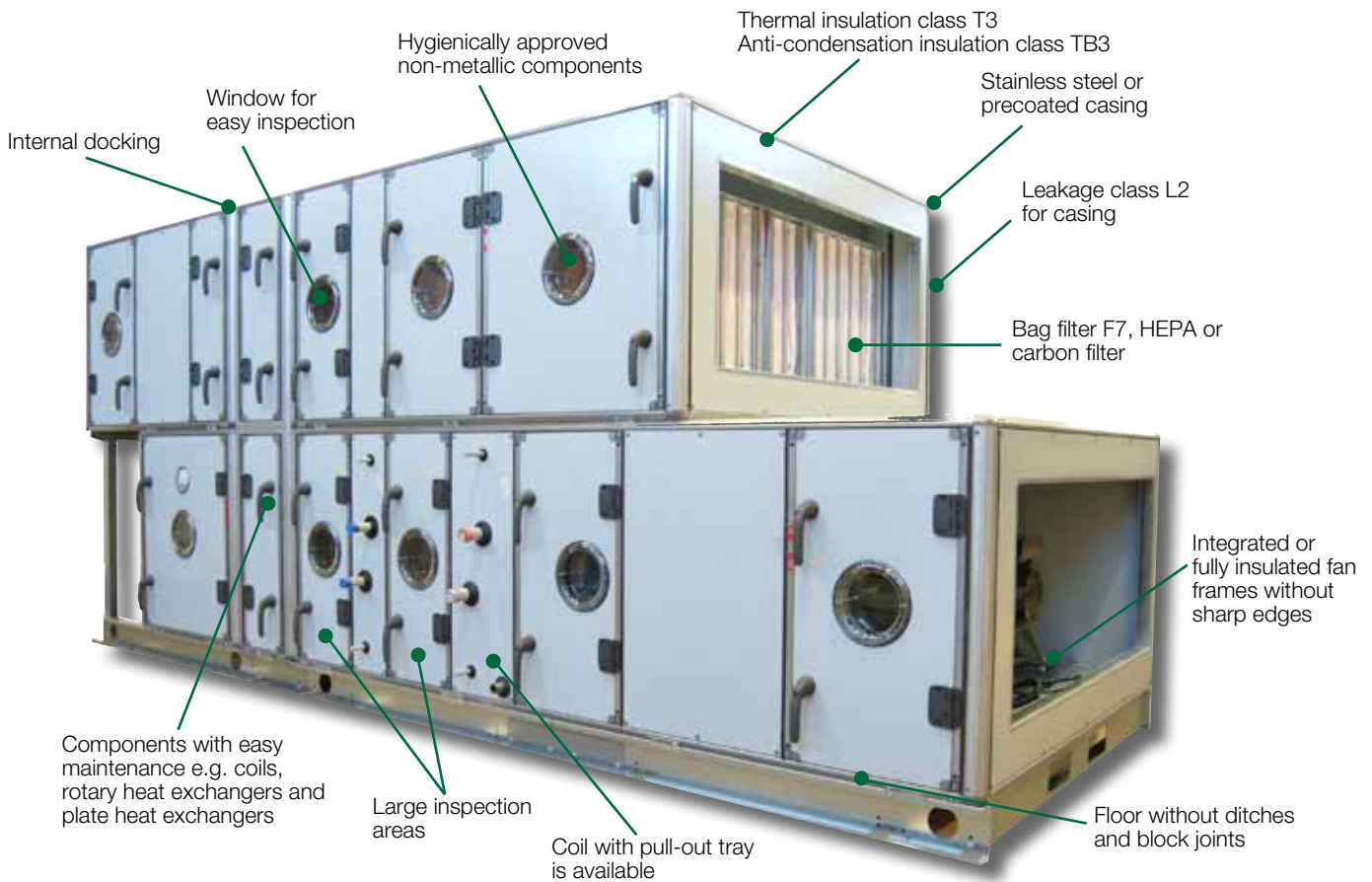
In order for operations to run smoothly, certain working environments require a hygienic indoor climate that is guaranteed to be bacteria-free. Fläkt Woods has long experience of hygiene applications.

Over 300 hospitals in 18 countries in Europe and Asia use Fläkt Woods ventilation systems.

With the new eQ air handling unit, we offer safe, high-quality solutions for a hygienic indoor climate.



Fläkt Woods hygiene appliances meets hygiene requirements according to VDI 6022, VDI 3803, ÖNORM H 6021, SWKI VA 104-01, DIN EN 13779, DIN 1946 Teil 4, SWKI 99-3 and ÖNORM H 6020-1.



## Easy configuration with ACON product selection tool



**ACON provides all the information and support required for good planning**

- Product size
- Audio data
- Efficiency
- LCC
- Delivery time
- DXF and DWG files can be exported to CAD software
- Support available for Autodesk i-drop
- Relevant documentation always supplied

To ensure correct configuration of hygiene units, ACON has a Hygiene Verification Check function that helps the user to configure a unit compliant with VDI 6022 for standard hygiene or EN 1946-4 for hospital environments. ACON provides clear recommendations and instructions to ensure that the unit meets relevant standards. Fläkt Woods recommends that the user has good prior experience of hygiene projects, as certain standard requirements must be met by the electrical technician and the customer.





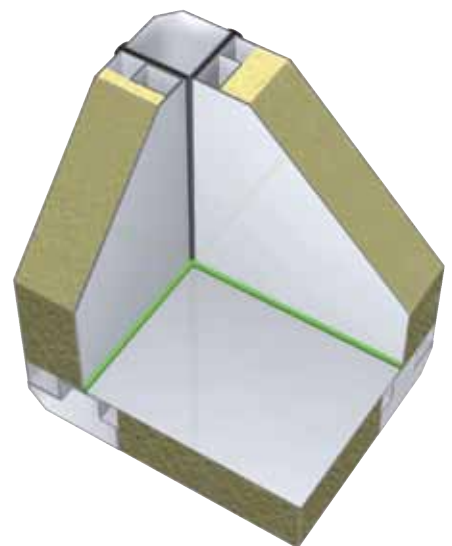
## Casing – performance characteristics

With over 100 years' experience, our units' components are developed to provide indoor air that is as clean as possible.



Even in its basic version, the eQ unit meets very strict hygiene standards. The sides of each module's casing are very smooth, meaning that there are no differences in level between the panel surfaces and the closed frame profiles. There is no ledge at the base of the unit. Large inspection doors allow easy cleaning inside the unit. To ensure efficient water run-off

during cleaning, the unit should be installed with an inclination of approximately 2° towards the inspection side. This can be achieved with the help of a base frame and adjustable feet. In the hygiene version of the eQ, the casing is internally sealed between the panels and the frame. This facilitates cleaning and prevents dust accumulation.





- The casing elements have a double-wall construction with a 50 mm thick non-combustible mineral wool insulation providing excellent thermal and acoustic insulation.
- Twin-wall polycarbonate window for easy cleaning and inspection.
- Mechanically secured foam rubber sealing strips in the inspection doors minimise leakage flow.
- The door locks are fitted into the door frame to allow unobstructed airflow and prevent dirt accumulation.



- The unit casing is sealed with EPDM cellular rubber sealing strips with closed pores.
- Non-metallic material is microbially inert according to ISO 846.
- The panel joints are internally sealed with antifungal sealant.
- No visible internal framework for easy cleaning.
- The hygiene version of the eQ consists of a unit divided into block sections.

The eQ unit's casing complies with the following classes:	
	Class
Thermal insulation (thermal transmittance class)	T2 T3 standard insulation
Anti-condensation insul. (cold bridge insulation)	TB2 TB3
Air-tightness class (leakage flow)	L2 (CEN B)
Strength class	D2
Corrosivity class (environmental class)	C4 for standard version C5 for stainless steel version

# Internal components – performance characteristics

The casing and all components are designed to prevent water accumulation in crevices when the unit is washed and cleaned.

## Heat recovery with ECONET® and ECOTERM®

In a hospital environment, no risk of leakage between the extract air and supply air is tolerated.

To ensure secure ventilation, we offer the **ECONET®** and **ECOTERM®** liquid-coupled heat exchangers – a supply air and an extract air coil consisting of copper tubes and aluminium fins.

**ECONET®** can be equipped with

a double pump for sites where ventilation is crucial to production, making it imperative that the **ECONET®** system never stops. If one of the pumps breaks down, the other pump takes over. Coils with maximum face area can be ordered for **ECONET®** and **ECOTERM®** to prevent high pressure drop and air flow.



Centriflow Plus®



Centriflow Plus® with EC motor

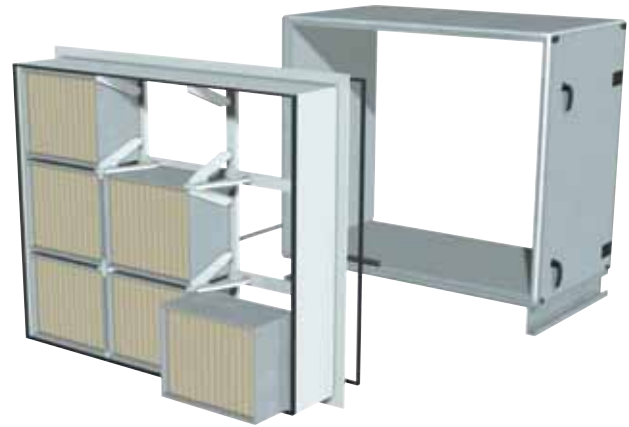
## Fan

The plenum fan has four air flow measurement points, ensuring very high measurement accuracy. This is crucial in minimising fuel consumption. The absence of a fan cover ensures easy cleaning. Because the fan can be balanced to produce low vibration levels, it is suitable for applications requiring vibration-free operation. Centriflow Plus® has the highest efficiency rating on the market, another benefit that lowers operating costs.



## Filter

- Vertical filter bags minimise the risk of moisture accumulation in the filter, which can cause increased pressure drop.
- HEPA filters (High Efficiency Particulate Filter) are ideal for operating theatres and other places with high hygiene requirements, as they are 100% leakage free. The filter has a welded stainless steel wall in which the filter cassette is installed. No liquid seal is required between the wall and the cassette, and the wall is easy to install. There is no risk of dust passing into the supply air.
- Pull-out filter frames are available for easy cleaning.



## Coils

- Stainless steel water tray approved according to VDI 6022, which means that water does not collect in the tray.
- A pull-out tray is available.



## Silencer

- The silencer is made of hygienic, wipeable Cleantec material. The unit contains no materials with open pores.



## 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.

[www.flaktwoods.com/energy](http://www.flaktwoods.com/energy)



# 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.