

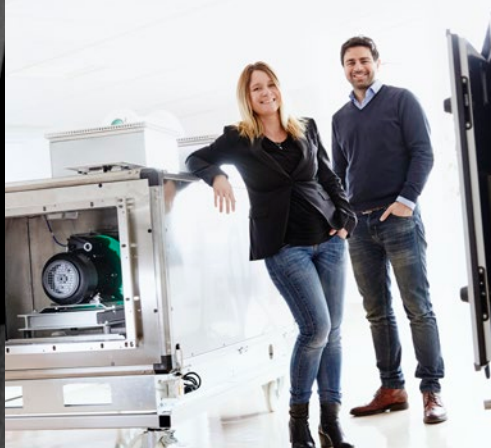
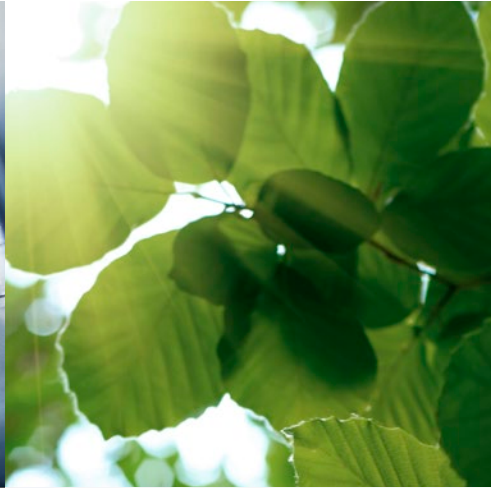
> AIR TREATMENT

eQ PRIME

eQ PRIME[®]

>> ENERGY EFFICIENCY AND FLEXIBILITY
STRAIGHT OUT OF THE BOX





Energy efficiency – the essence of our solutions

All our research, development and testing activities are singularly focused to provide our customers with the best and most efficient solutions possible to their ventilation and indoor climate challenges.



From new and innovative concepts, smart material choices and manufacturing processes to advanced controls, minimised running cost and easy maintenance, FläktGroup always strive to deliver the best for your long-term economy and our environment.





*FläktGroup eQ Prime Air Handling
Units meets the highest demands.
Energy and casing performance
have been thoroughly tested and
verified by Eurovent.*

Technology and experience to promote a better climate both indoors and outside

As the world tries to combat global warming, the focus on energy consumption increases. With governments imposing ever stricter legislation and operations budgets for buildings under constant pressure, FläktGroup has a lot to offer.

With our strong heritage, vast product range, global coverage and skilled people, we are in a unique position to deliver energy efficient products and solutions to all applications and industries. Our eQ Prime range of compact and standardised Air Handling Units is a perfect example of this. We combine high-performing components to complete solutions and use smart controls to optimise the energy savings. All whilst maintaining the high levels of indoor comfort that is needed and expected in modern buildings
– and that you can rely on FläktGroup to deliver.

Designed for comfort, flexibility, energy efficiency and speed

eQ Prime is the straightforward choice to achieve an excellent indoor climate at minimised costs, both initially and longterm. It is designed to achieve high energy efficiency both through carefully selected low-energy components and to optimise the overall efficiency, as a system. A set of additional options are available that further increases performance with the latest technologies.

But eQ Prime is also resource-efficient when it comes to the consumption of time. Standardised models require less dimensioning and delivery times are therefore also short, some models available directly from stock. eQ Primes built-in flexible fits a wide set of standardised applications well and the pre-assembly makes planning, installation and commissioning as quick and straightforward as it gets.



FLEXIBILITY AS STANDARD

Predefined models with wide application span. ReCooler Heat Pump and counterflow heat exchanger among additional options.



EFFICIENCY AND LCC

eQ Prime is built for top energy efficiency and a long life-span, but is also easy and cheap to install and maintain.



INTEGRATED CONTROLS

Optimised performance and efficiency with factory-fitted controls. Easy to use interface and connectivity with BMS systems.



EASY INSTALLATION

Designed to keep installation and commissioning to a minimum. Delivered "ready for use" with minimal assembly and wiring required on-site.



eQ PRIME®

eQ Prime is a standardised range of air handling units in compact casing that includes the most energy efficient components such as 270 Premium rotor, ReCooler HP, Recuterm counterflow and PM-motors. The basic block of fans, filters, and heat recovery can be complemented with heater, cooler and silencers inside the casing or mounted in the duct. Integrated controls system is optional.

QUICK FACTS

- Compact design available in **8 sizes**
- Plug & Play installation
- Regoterm/RegAsorp energy recovery rotors
- Recuterm counterflow plate heat exchanger
- Integrated controls

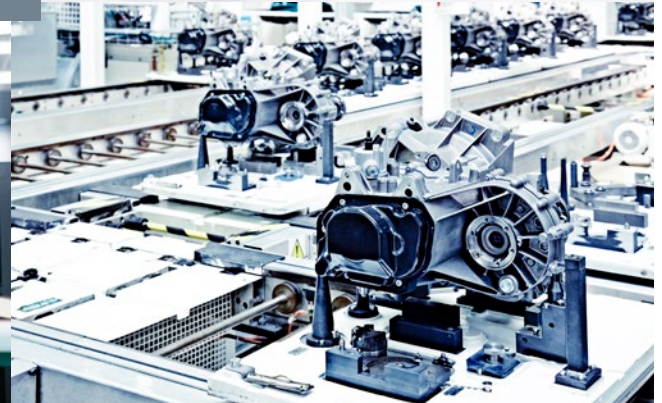
AIR FLOW

0.1 – 6 m³/s



EXAMPLE APPLICATIONS:

- Offices
- Residential buildings
- Education
- Retail
- Industrial
- ...and many more



eQ PRIME[®] is always right at home

Building on many years of experience from tailored solutions, we have designed eQ Prime as a “swiss tool” AHU. It covers the demands in the absolute majority of frequent use cases, from kindergarten to retail shops. eQ Prime provides wellbeing and productivity in offices and reduces risk for sick-leave due to draught. In nurseries it has the flexibility to adapt, from the intensive play hours to mid-day rest. In industrial applications with large volume buildings, both people and machinery have productive conditions. And in retail a business-critical comfortable climate, also in rush hours, ensure customers stay alert to continue shopping.

Use less – get more!

eQ PRIME[®] is packed with smart technology and efficient components to maximise your energy savings

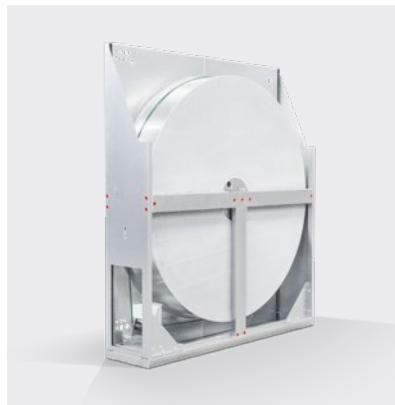
We have a long history of customising ventilation solutions to a wide range of applications with different demands. With innovations, continuous development work, world-class testing and lab facilities, we have developed eQ Prime - a standardised, yet flexible solution that offers class-leading energy savings. A set of carefully selected

options have been added, with focus on well-balanced interaction with the basic design and between the different components. Together they can tailor the air handling unit to the demands of your specific project, and provide optimum performance and energy efficiency, combined with a low life cycle cost.



Energy recovery options

Integrated heating/cooling



RECUTERM[®] counterflow



Recuterm counterflow is the plate heat exchanger range for high temperature efficiency ~85%. Recuterm counterflow is ideal for central AHUs in residential buildings where there is a need to consider risk of odour transfer. Recuterm AFP, advanced frost protection, demand based frost protection offers reliable operation and the highest total energy efficiency in cold climates.

- Heat transfer efficiency up to 85%
- Recuterm advanced frost protection
- Splittable for entry into narrow building openings

REGOTERM[®] / REGASORP



Rotary heat exchangers from FläktGroup offer high levels of heating and cooling recovery at low pressure drops. Our rotary heat exchangers comes with different efficiency variants allowing true optimisation according to climate zone and supply air temperature needs

- Up to 90% temperature efficiency
- Regoterm 270 Premium for optimised ratio between heat recovery and pressure drop
- RegAsorp sorption rotor for up to 90% humidity transfer and efficient cooling recovery

ReCOOLER[®] HP



ReCooler HP is the combination of a reversible heat-pump unit and an energy recovery wheel in one unit – bringing true benefits from design to operations. eQ with ReCooler HP is a complete plug & play air handling unit for ventilation, heating and cooling, where everything is included and factory tested.

- High performance and comfort with low running costs
- Heat pump mode
- Quick and easy installation

This product contains fluorinated greenhouse gas, R410A, with a GWP-factor of 2088. Refrigerant quantity: 3.8-11.8 kg, corresponding to 7.9-24.6 tonnes of CO₂ equivalent per circuit.



Fans

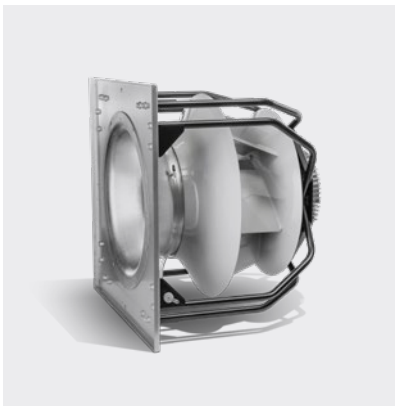


CENTRIFLOW 3D®



The CentriFlow plenum fan range features impeller design that offers the best energy efficiency available on the market. The impeller is a mixed flow fan, designed with performance inside an AHU in mind. CentriFlow 3D comes with a wide scope of motors and VSD for reliable operation and low energy consumption.

- Mixed flow fan for best performance inside AHU
- Excellent sound performance – low noise
- Low vibration levels



PM/EC MOTORS



For maximum energy efficiency the air handling units can be supplied with fans equipped with PM or EC motors. EC motors are used for the smallest eQ models and PM motors for larger, selected to fit the capacity range where they have highest efficiency.

- High energy efficiency motors with IE4 rating
- High efficiency also at part load
- Compact physical dimensions

Controls



CONTROLS

Advanced built-in controls that deliver a comfortable indoor climate with the highest energy efficiency. Experience-based operating modes designed for optimum performance in a wide range of applications. Simplifying both planning, installation and operation.

- Developed to maximise component output
- Full connectivity for remote and system control
- Quick and simple installation

Quick selection

eQ PRIME



eQ Prime with rotary heat exchanger

eQ size	Nominal airflow	Fan size	Length mm	Width mm	Height mm	Longest block length mm	Duct connection mm	Approx. weight kg
005	0,4	Standard	1450	1050	1102	500	500x300	310
008	0,8	Small	1550	1350	1302	550	800x400	420
	1,0	Large						
011	1,2	Small	1950	1450	1502	700	800x400	530
	1,4	Large	2050			750		
018	1,9	Small	2150	1650	1702	750	1100x500	660
	2,2	Large	2250			800		
023	2,9	Small	2750	1700	2002	950	1400x600	1100
	3,3	Large	2850			1000		
032	3,7	Small	2850	1800	2202	1000	1400x800	1350
	4,2	Large	2950			1050		
041	4,7	Small	3000	2000	2302	1050	1700x800	1500
	5,3	Large	3100			1000		
050	5,9	Small	3600	2300	2602	1250	2000x800	1850
	6,5	Large	3700			1300		



eQ Prime with plate heat exchanger

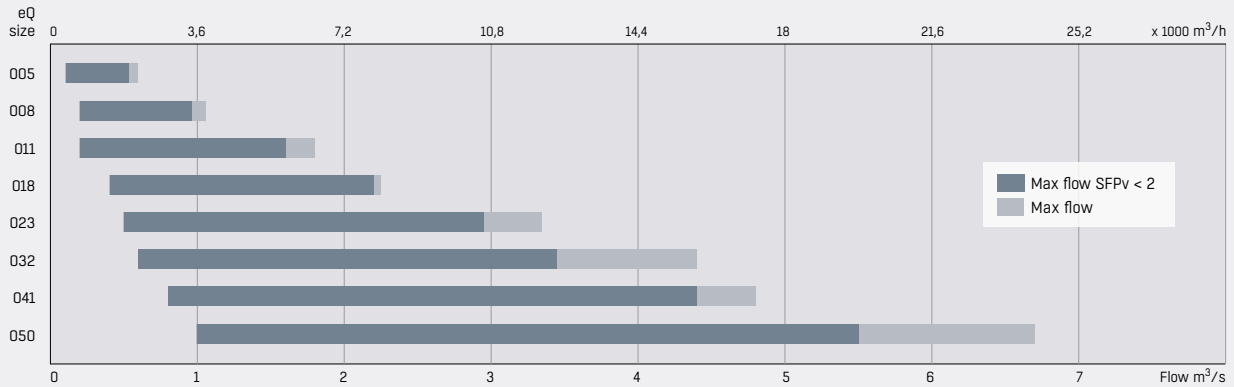
eQ size	Nominal airflow	Fan size	Length mm	Width mm	Height mm	Longest block length* mm	Duct connection mm	Approx. weight kg
005	0,4	Standard	2250	800	1102	1250	500x300	477
008	0,8	Small	2450	1100	1302	1350	800x400	701
	1,0	Large						
011	1,2	Small	3000	1200	1502	1600	800x400	925
	1,4	Large	3100					
018	1,9	Small	3300	1400	1702	1800	1100x500	1186
	2,2	Large	3400					
023	2,9	Small	4050	1700	2002	2150	1400x600	1780
	3,3	Large	4150					
032	3,7	Small	4450	1800	2202	2450	1400x800	2125
	4,2	Large	4550					

*Splittable

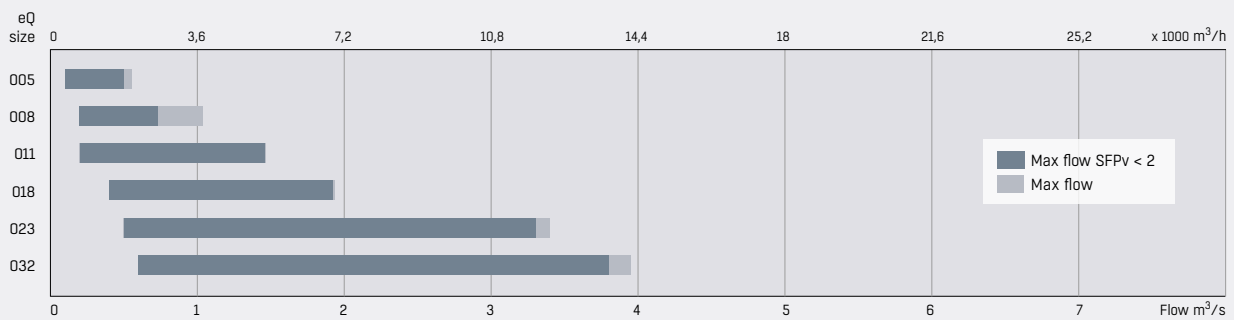
Flowcharts



eQ Prime with rotary heat exchanger



eQ Prime with plate heat exchanger



Always the right product choice with a complete range of advanced selection tools

ACON® SELECTION TOOL

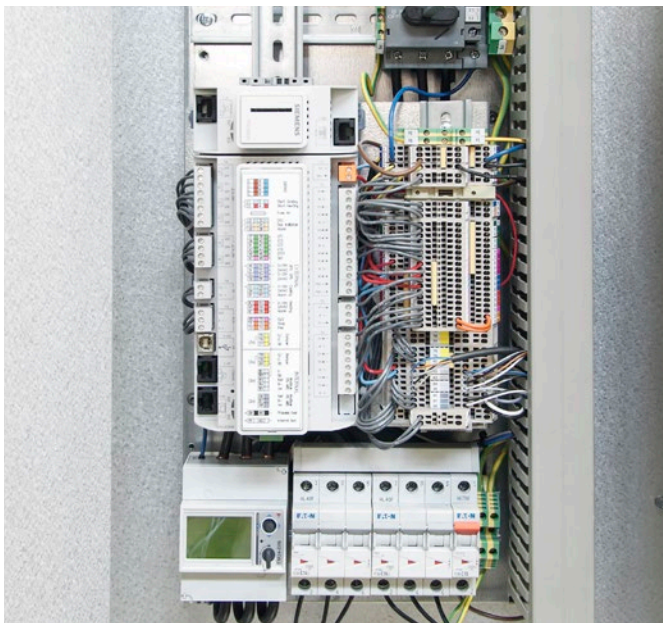
Easy-to-use and powerful selection. ACON® is a powerful and easy product selection tool for air handling units. It is the best and most advanced of its kind on the web. It offers rapid product selection to specific project requirements and provides you with all the technical information.

- Product dimensions
- Noise data
- Performance data
- Efficiency data
- Life cycle cost
- Product documentation
- Export of Dxf and Dwg files

Integrated controls

Quick installation and optimised efficiency in all conditions

Irrespective of whether you are a consultant, a contractor or an operator, you will notice the advantage of choosing eQ factory-fitted control equipment. An advanced air handling unit needs to meet high demands and deliver both a healthy and comfortable indoor climate, while at the same time comply to ever stricter energy consumption directives. Our control equipment has been developed to get the very best out of the carefully chosen components of the eQ air handling units. It also gives the added benefits of simplifying project planning, installation and operation; to give you more time for other issues.



FULL CONNECTIVITY

There are many communication possibilities for the eQ air handling units – for connecting accessories, connection to BMS or connection to the internet and mobile services.

- Modbus TCP
- BACnet
- LonWorks
- Modbus RTU

eQ can also be configured with our intelligent web-based eQ Smartweb. The system constantly monitors the health, readiness and performance of the eQ, giving you full control at all times and minimising emergency visits on site.

PRE-CONFIGURED CONTROLS

The integrated control equipment is supplied complete with all necessary field components; pre-programmed, configured and tested. All control software is developed by FläktGroup using our collective expertise and experience from countless installations all over the world. The control hardware for the eQ range is the reliable and flexible Climatix.

All controls are delivered pre-configured to the exact specification of the air handling unit which enables quick and reliable commissioning. Also with our easy-to-use hand controllers all of the setup parameters are literally at your fingertips.





The benefits of eQ PRIME[®] – from design to installed unit



END USER/BUILDING OWNER

- The most energy efficient Air Handling Unit in the market
- The best energy recovery and low operating costs
- Fulfils new building and environmental certificates (LEED, Breeam, etc.)
- Energy monitoring and communication for optimised operations



CONSULTANT

- Low SFP Value to enable selection of smaller units
- Fulfils ErP requirements and highest energy efficiency by PM motors and high energy recovery RegAsorp wheel
- Integrated controls enable specification of system with high energy efficiency and reliable operation



CONTRACTOR

- Quick and reliable installation!
- Casing possible to split for entry in narrow compartments.
- Integrated controls and mounted VSD's and cables for fast start up
- Commissioning support by Fläkt Woods is available

EXCELLENCE IN SOLUTIONS

WWW.FLAKTGROUP.COM

eQ PRIME 9034GB

FläktGroup is the European market leader for smart and energy efficient Indoor Air and Critical Air solutions to support every application area. We offer our customers innovative technologies, high quality and outstanding performance supported by more than a century of accumulated industry experience. The widest product range in the market, and strong market presence in 65 countries worldwide, guarantee that we are always by your side, ready to deliver Excellence in Solutions.

PRODUCT FUNCTIONS BY FLÄKTGROUP

Air Treatment | Air Movement | Air Diffusion
Air Distribution | Air Filtration | Air Management & ATD's
Air Conditioning & Heating | Controls | Service

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