

**PUM**  
 Separate rotors can be supplied in one piece or in segments in dimensions up to 5 m.

**PUR (ABCD)**  
 The cassette unit as standard or customised slide-in unit to fit any AHU.

**PUM**  
 Cased version for installation in AHU, duct work or plant rooms.

## The complete and flexible Econovent® wheel solution

The Econovent® family represents a wide range of rotor types such as non-hygroscopic and sorption. The recent investments have resulted in the Econovent® sorption rotor now being the market leader in latent cooling. The development was done in conjunction with our sister company in the United States which has more than 25 years of experience in desiccant coating technology. In order to optimize the Econovent rotor for each project its possible to choose from several different foil spacings and diameter sizes in steps of 10mm. The rotors can be offered in diameters up to 5.0 meters and managing airflows up to 50m³/s. The casing can be offered in different materials (galv, steel, alzn, stainless 304/316) and/or powder painted in almost any color to apply to the projects specification.

### GREAT FLEXIBILITY

The Econovent® family offers lots of flexibility in terms of casing. If intended to be integrated in an air handling unit (AHU) the PUR(A,B,C,D) is the natural choice, and if used as a stand-alone module the PUM is selected. Both casing types offer full flexibility in terms of dimensioning, control positioning, inspection hatches and material class. The PURA is intended for top-bottom – and the PURB for side-by-side air flows. PURC and PURD are configured as A- and B- cassettes but in split delivery versions for narrow building spaces. The PUM full cased unit is intended for larger and divided rotors.

### Econovent® advantages

- Econovent® sorption rotor offers best-in-class latent performance
- The Econovent® is the "original" rotor which has been developed and improved over decades and installed all over the world
- Eurovent and AHRI certified
- Wound together with adhesive for highest strength and rigidity. No integrated spokes or rods of rotors <2.5m diameter
- Low aluminum band thickness (0.05 mm) supports highest measured sensible- and latent efficiencies and lowest pressure drops.
- Full flexibility in sizing for all Air Handling Units
- Low rotor weight and quality bearings offers a quick and safe installation with limited operational wearing on the bearings
- Different flute heights for project optimization – 1.4, 1.55, 1.7, 2.0, 2.6mm

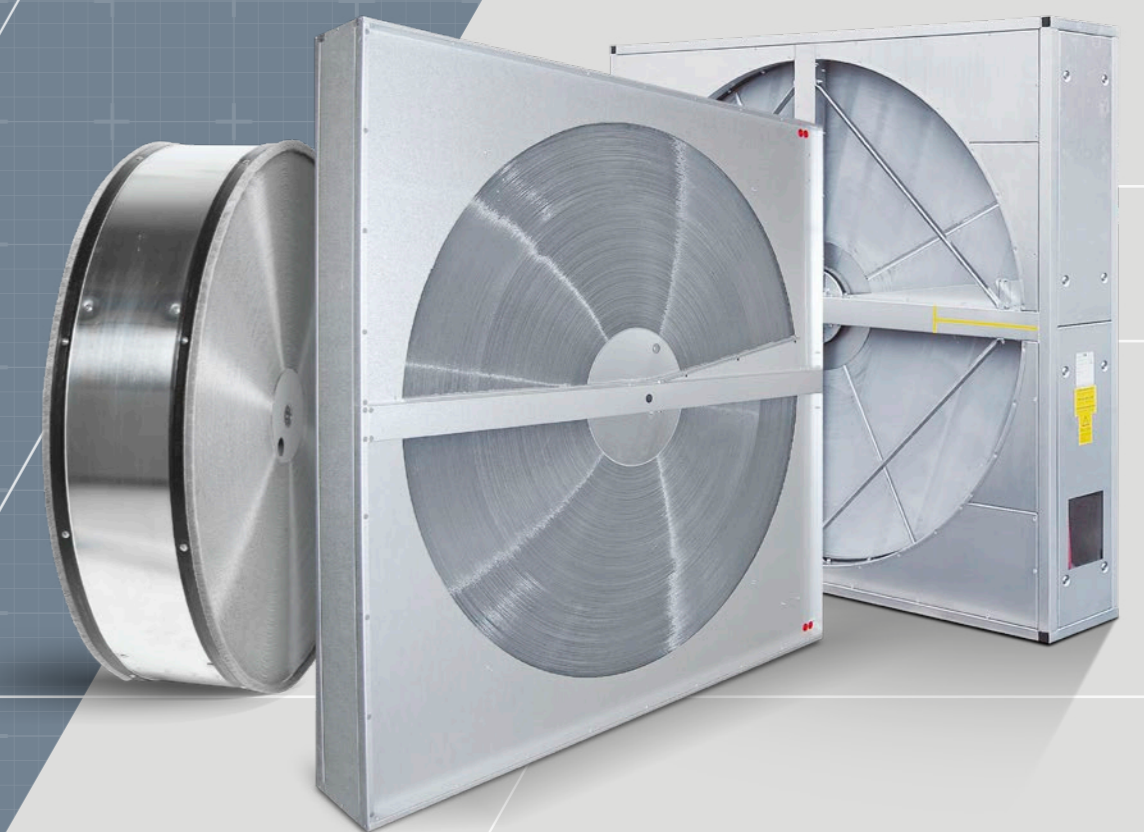
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## A HISTORY OF INNOVATION AND RELIABILITY

With more than a century of accumulated industry experience, FläktGroup is in a unique position to deliver energy efficient components and solutions for integrated performance, reliability and quality. With modern manufacturing technologies, precise deliveries and technical support, FläktGroup is your partner – fulfilling and surpassing industry standards and certifications.

» Learn more on [www.flaktgroup.com](http://www.flaktgroup.com) or contact one of our offices

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## ECONOVENT®

THE ORIGINAL ENERGY RECOVERY WHEEL

# Energy recovery for all applications with Econovent®

The Econovent® energy recovery wheel is derived from the original rotary heat exchanger manufactured since 1956. Its characteristics are well known and provides high energy recovery efficiency, low pressure drop and reliable technical data with undisputed operational excellence. The Econovent® wheel is installed all over the world and has recovered a considerable amount of energy contributing not only to monetary savings but also to a greener environment.



The Econovent® rotor is trusted for all kinds of applications such as comfort- (offices, hotels, and public spaces), light industry- and marine environments (cruise ships) from arctic- to tropical climates. Part of the Econovent® family is also the epoxy- and edge reinforced treated rotors, which are more resistant to corrosive environments such as the marine- and light industry.

## QUALITY ASSURED PRODUCTION

Besides the long and vast experience of all kinds of applications, another thing making the Econovent® rotor unique is deeply rooted in the manufacturing process. During production, all rotors are carefully wound together with an extra thin aluminum foil in concurrence with a special adhesive component. In combination, this is the key to strengthen the rigidity and sustainability of the rotor, while still offering the best in class performance. Further for quality verification, prior to dispatch all rotors manufactured are undergoing a strict pressure test.

*Econovent® is the original rotary heat exchanger and one of the first to be awarded the Eurovent certificate*

## GLOBAL SALES AND SUPPORT

With a global sales organisation its possible to offer all customers innovative and quality products in conjunction with a high level of technical application expertise and support.

## EUROVENT CERTIFIED RANGE

Econovent® is the original rotary heat exchanger and one of the first to be awarded the Eurovent certificate, guaranteeing that the stated performance can be achieved in practice. And this applies to Econovent® – the original and able to stand up to any inspection.



## Technical Centre for full-scale testing

The Technical Centre at FläktGroup in Jönköping, Sweden is one of the most complete ventilation laboratories in the world, able to perform simulations and testing in full-scale environments. The Econovent® rotors are tested exhaustively during the development process on a specially-developed test rig, where their technical properties and performance are measured to a high degree of accuracy. The system lab is based on various types of areas where sound quality, air distribution/balance, transfer risks, comfort and rule strategies can be studied. The test rigs are built in accordance with current international and Swedish norms and standards – ISO and EN respectively. In addition, an invaluable experience has been retrieved from thousands of Econovent® installations worldwide, in harsh environments ranging from Arctic to tropical climate zones.

## Econovent® savings in practice

Every rotor delivered is accompanied by a DLL-file that contains all the technical details and specifications related to the product. Simply install the file and launch the program to get access to everything you need in order to maximise the energy saving performance of the rotor.

An easy to use and accurate stand-alone tool is available to make quick selections.



## Production and logistics you can rely on – wherever you are

The Econovent® wheel has been part of FläktGroup's DNA for over 50 years! Over the decades considerable resources have been invested in the Econovent® design supporting the value proposition to the customer, saving substantial amount of energy for the user. We have continuously improved and rationalized the manufacturing process to cope with the ever higher customer demands in terms of design flexibility and shorter on-time delivery times. The result is thousands of Econovent® wheels produced and installed annually for land- and marine applications in all climates over the whole world.

Our global sales organisation provides high quality products and high levels of technical-, application- and product support. Further, well-proven logistic solutions enable us to offer worldwide transport planning and coordination according to your needs. We ensure that your items will arrive on-time, in a cost-efficient manner.

*FläktGroup has been a trusted supplier of OEM products to clients all over the world for over 50 years!*