



E

**THE PROMISE
THE PROOF
HEATEX**

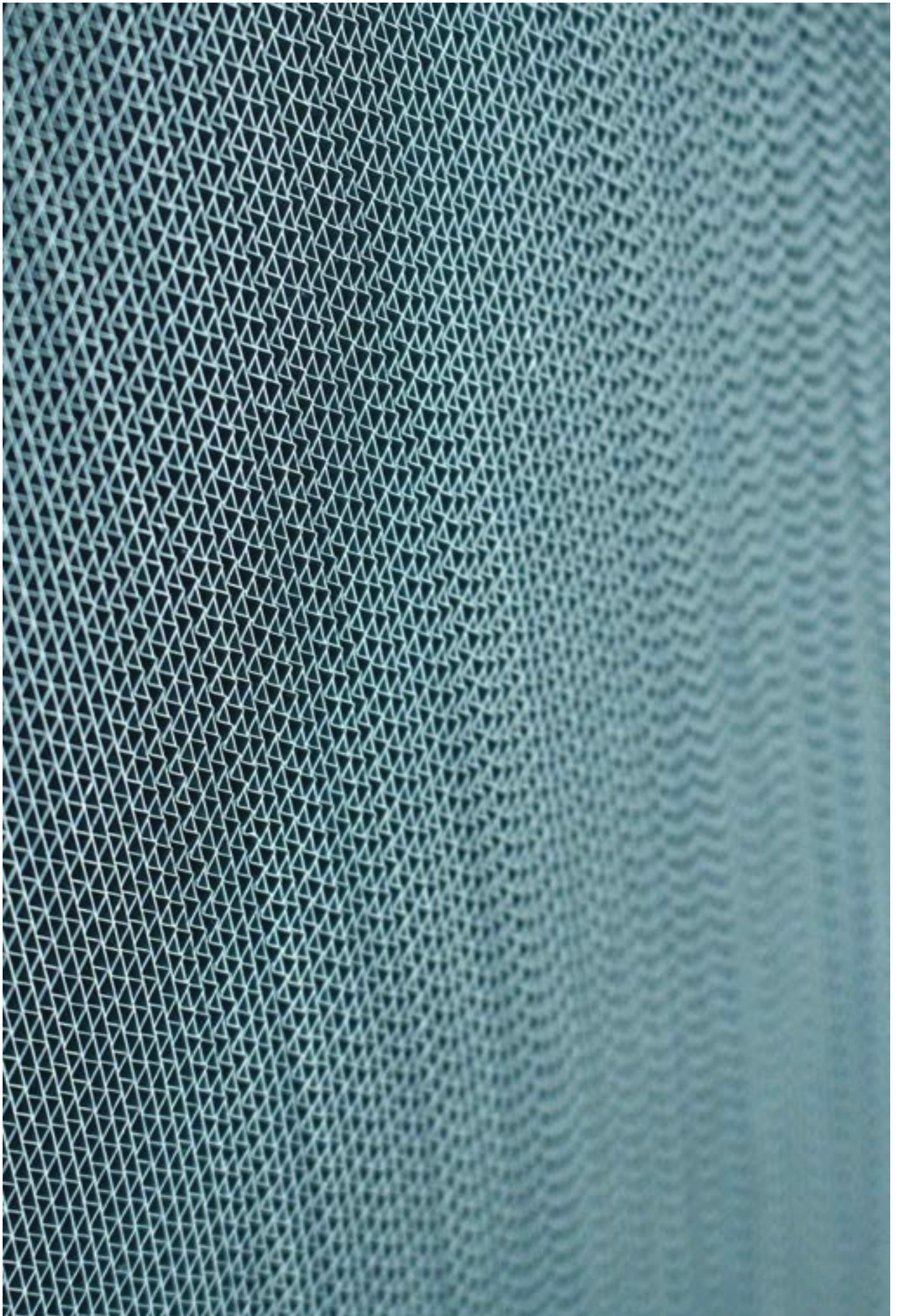
AIR-TO-AIR HEAT EXCHANGERS

HEATEX

ROTARY HEAT EXCHANGERS

Heatex offers a broad range of rotary heat exchangers covering the complete application span from small residential installations up to large commercial installations. Rotary heat exchangers are often the preferred choice thanks to the low freezing risk as the wheels by definition defrost themselves, their small footprint and the high sensible efficiency that they provide. The possibility of adding coating to the wheel, which allows latent transfer, is another factor favoring these products.

Heatex rotary heat exchangers can be equipped with a purge sector in order to minimize the cross contamination of fresh air with exhaust air.



THE PROMISE: WE ONLY DO WHAT WE DO BEST

Heatex has developed and manufactured heat exchangers since the early 1960s. Heat exchangers is what we know and what we focus on. Instead of constantly expanding into other businesses we try to refine and improve what we do best.

When developing new products we always work in close collaboration with our customers and suppliers. We study market demands, do live tests and review future trends of energy prices and regulations. We have our own testing facilities with state of the art lab equipment to make sure that we don't make promises we can't keep.

We noticed there was a great demand for rotary heat exchangers with a better efficiency and performance than those available on the market today. We also tried to resolve the issue that all heat exchanger manufacturers struggle with: Getting the best casing area usage possible in order to reduce the shadow in the AHU to a minimum. So we put all our efforts in to develop, what we call, the next generation rotary heat exchanger.

THE PROOF: E – THE NEXT GENERATION ROTARY HEAT EXCHANGER

Model E is our latest invention, a unique rotary air-to-air heat exchanger designed for air handling units, primarily for comfort ventilation applications. In Model E we have gathered all the experience and knowledge from over fifty years of practical experience of heat transfer processes.

Model E offers the most compact casing available on the market. This gives an exceptional efficiency compared to conventional rotor exchangers with the same casing dimensions. The casing is manufactured of aluzinc and provides a high torsional rigidity.

To get the best performance possible and to make it more durable we developed a matrix with a completely new geometry. In order to secure the strength of the wheel, Model E is as standard provided with spokes and welded hub and sweep.

The Model E special sealing reduces leakage significantly compared to sealing systems in conventional rotary heat exchangers. Model E also has an improved purge sector which decreases the cross contamination to a minimum.

The airflows can be oriented side by side or top and bottom and the complete exchanger can be put in a vertical as well as in a horizontal position.



MODEL E ADVANTAGES

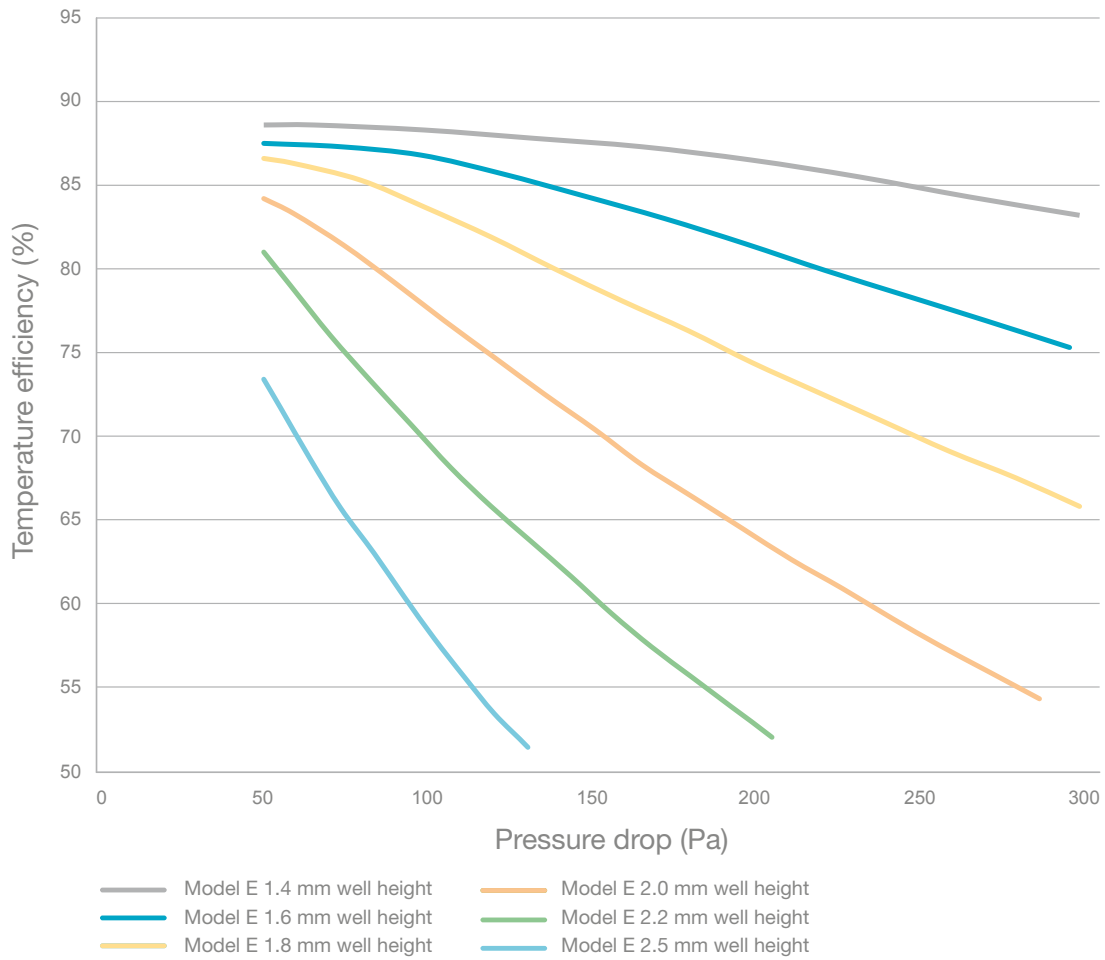
Like all rotary heat exchangers Model E offers the advantages of being an environmentally friendly and high efficiency solution with a low freezing risk. But with Model E, the next generation heat exchanger, we have taken the advantages even further.

- **COMPACT CASING**
Extremely compact design for optimal use of the casing area and a minimal shadow in the AHU.
- **ELABORATE DESIGN**
New geometry of the matrix to give the best performance possible.
- **REDUCED LEAKAGE**
The Model E optional special sealing solution reduces leakage by at least 50%.
- **EFFECTIVE PURGE FUNCTION**
The new purge sector decreases carry-over by up to 46%.
- **ENVIRONMENTALLY FRIENDLY**
Model E already complies with the EcoDesign Lot 6 requirements, both for 2016 and 2018.
- **MANY DESIGN CONFIGURATIONS**
Customized wheel diameters from 500 to 2500 mm and six well height options for the most optimized solution for each application.
- **IMPROVED EFFICIENCY**
Increased system performance with up to 90% efficiency.
- **EXCELLENT ROI**
Long service life with reliable functionality gives a fast return of investment.
- **ECONOMICAL OPERATION**
New generation drive with lower energy consumption.

Significant for all Heatex heat exchangers is the great possibility to narrow down the perfect thermal design within a rich scope of standard design options and materials. We have a wide range of options for most applications and performance requirements.

PERFORMANCE CURVE

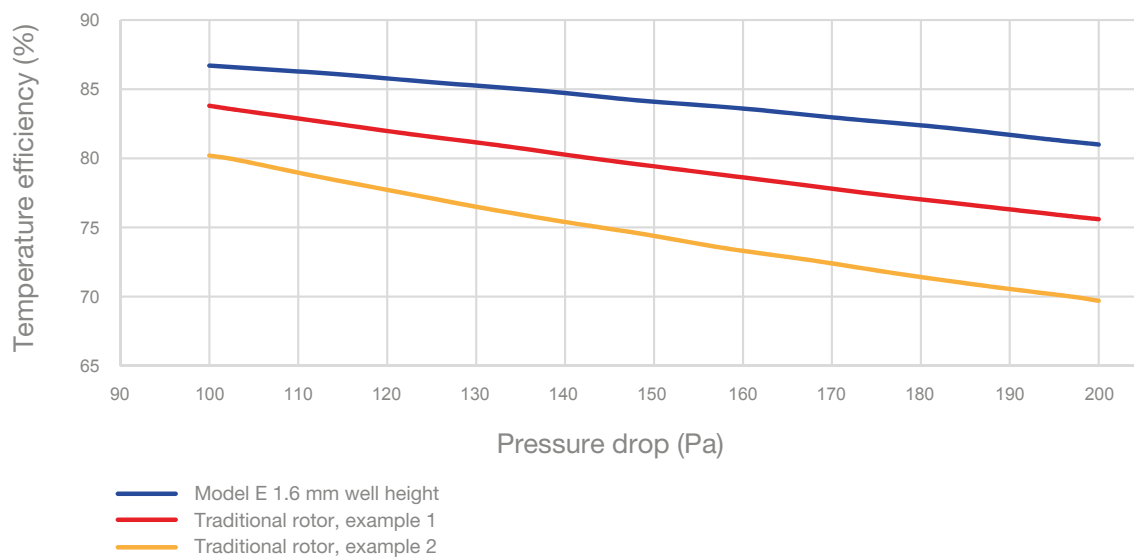
MODEL E WELL HEIGHTS



PERFORMANCE CURVE

MODEL E VS. TRADITIONAL ROTARY HEAT EXCHANGERS

Casing size 1500 x 1500 mm. Well height 1.6 mm.



SPECIFICATIONS

MAXIMUM ALLOWED PRESSURE DROP:

- 300 Pa for below Ø 1600 mm
- 250 Pa for larger than Ø 1600 mm

RECOMMENDED PRESSURE DROP:

- 100-200 Pa.

MAXIMUM ALLOWED DIFFERENTIAL PRESSURE:

- Up to 600 Pa

AIR TEMPERATURE LIMITS:

- Maximum 65°C and minimum -40°C air temperatures

MATRIX MATERIALS:

- Aluminum (Standard)
- Epoxy coated aluminum (Improved corrosion protection)
- Silica gel or molecular sieve coated aluminum (Enhanced moisture transfer)

- Hygromix (Silica gel and molecular sieve coated aluminum)
- Hybrid (aluminum partly coated with silica gel)

FRAME MATERIAL:

- Aluzinc
- Painted version available as option

SEALING:

- Brush sealings as standard
- Special sealing solution available as an option for better wear resistance and improved tightness

FRAME DESIGNS:

- Airflows horizontal or vertical

DRIVE UNITS: (UL certified upon request)

- Constant speed (Standard)
- Variable stepping motor with operation controller

THE PROMISE:

With Heatex as the leader of heat transfer, you will have the best possible partner for your heat transfer challenges.

THE PROOF:

With a global team of sales and technical support, Heatex responds quickly to inquiries with the optimized solution for your application.

All Heatex products are custom made and designed to match the customer's technical specifications. Heatex Select, always available on-line for free at heatex.com, enables accurate calculations of the performance of a product under different conditions.

We have a well established reputation of being honest and reliable and hold several certifications covering product and operation quality worldwide, for example Eurovent, GOST, RLT-Hygiene and ISO 9001.

Our products are field tested and proven to have very high efficiency and a fast ROI.

Being the leader, Heatex will always provide the best expertise to find a solution for your application.



ILH BERLIN

Heatex is a global manufacturer of air-to-air heat exchangers. The company was founded in the 60's, and incorporated into Heatex AB in 1987.

The company uses advanced algorithms to design and improve its products. These are based on scientific calculations within thermodynamics, the fundamentals of heat transfer and fifty years of practical experience of heat transfer processes.

Heatex products are well known for providing high energy recovery and for enabling a fast return on investment. The company has a history of steady growth and has over the years established itself as the market and technology leader of air-to-air heat transfer.