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 very 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: HEATEX WILL CONTINUE TO IMPROVE ITS PRODUCTS

Our model EQ is a high-efficiency, segmented rotary heat exchanger designed to be fitted inside air handling units, mainly for comfort ventilation applications. The airflows may be oriented side-by-side or top and bottom configurations. The casing and matrix are supplied in segments to be reassembled on site which allows for a very rapid and cost-saving assembly.

Nominal temperature efficiency for the rotary heat exchanger is 70-75%. The humidity efficiency for the coated rotary exchanger is 65-75% which gives an enthalpy efficiency of 75-80%. By optimizing the design options of the wheel it is possible to achieve even higher efficiencies.

Heatex constantly works in close coperation with its suppliers and customers to constantly improve its products and model EQ is no exeception.

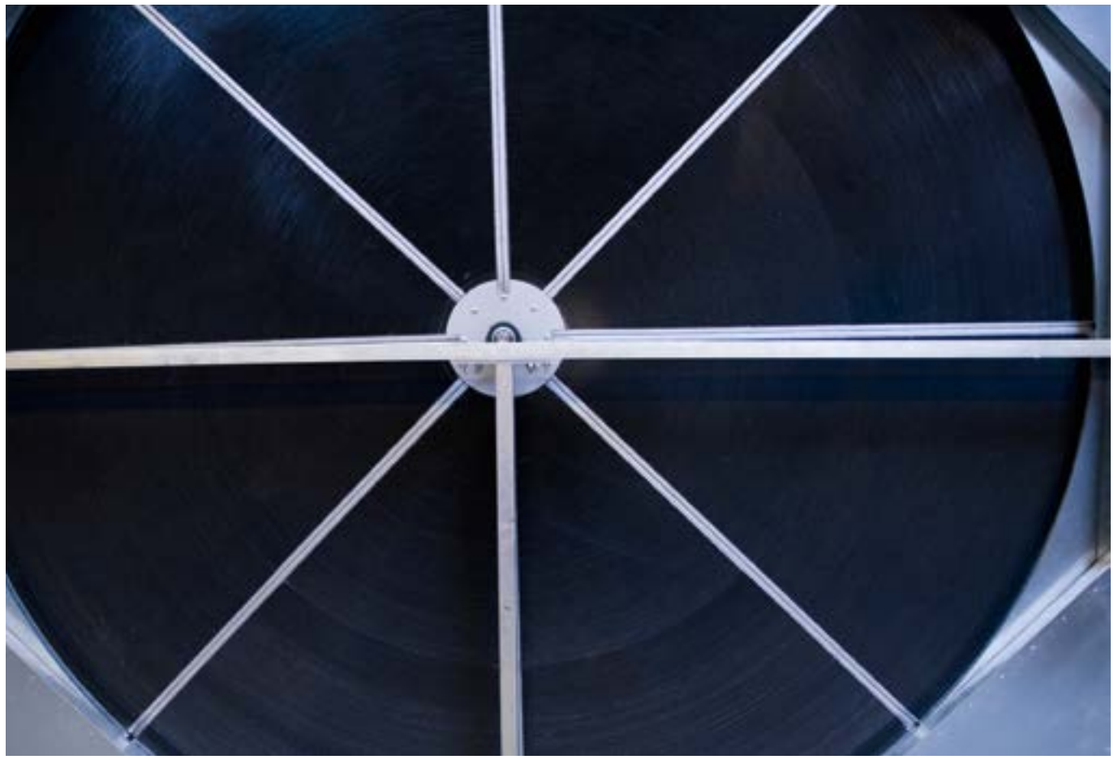
THE PROOF: AN EXTRA SLIM AND STABLE CASING - IMPROVES OVERALL EFFICIENCY

In our model EQ, the total depth of the casing for a given wheel size is made as slim as possible without compromising stability. Consequently, a specific application can be designed using less space and material. For a given AHU, the wheel inside the casing can be made larger and deliver a higher overall efficiency.

The total face area of the wheel increases due to design alterations of the casing. Thus for a given wheel diameter, the slim casing enlarges the face area, increasing performance.

Several reinforcements, such as on the outer rim and the brush holder, gives the model EQ extra stability. This reduces handling difficulties, increases the expected operational lifetime of the system, and also reduces the risk of downtime.

In addition, we offer a high quality bearing house and multiple shaft sizes, each dimensioned to a specific wheel size.



A SEGMENTED WHEEL - PROVIDES ADVANTAGES

Apart from the slim and robust casing design, the great advantage of a segmented wheel is the ability for onsite assembly. This provides lower transportation costs and easier onsite handling. Moreover, to build in Model EQ into an existing AHU is easier than ever. The modular design of the wheel and casing allows for assembly inside the AHU if necessary.

The casing is only 140 mm (5.5 in.) larger than the wheel diameter. Minimum total size of the Model EQ is 1740 mm (68.50 in.) square with a 1600 mm (62.99 in.) wheel diameter. The largest wheel diameter is 3800 mm (149.60 in.) with a square casing ranging from 3940 mm (155.12 in.) up to 4500 mm (177.17 in.).

A further refinement is the possibility to make variably adjustments to the shaft position in all directions to achieve a perfectly balanced wheel fit in the AHU.

Model EQ is used for:

- Heat recovery for pre-cooling or pre-heating of supply air
- Moisture recovery / humidity control
- Air flows ranging from 1,250 to 190,000 m^3/h (770 CFM to 110 000 CFM)

Model EQ advantages are:

- High thermal performance
- Maintenance free long-life bearings
- Hygienic, easy cleaning
- Low freezing risk
- Segmented/osite assembly

SPECIFICATIONS

MATRIX MATERIALS:

- Aluminum (standard)
- Epoxy coated aluminum (enhanced corrosion protection)
- Silica gel coated aluminum (enhanced moisture transfer)
- Molecular sieve coated aluminum (enhanced moisture transfer)
- Hybrid (aluminium partially coated with silica gel)

FRAME MATERIAL:

- Galvanized steel

SEALING:

- Brush seal

AIRFLOW DESIGN:

- Airflows side-by-side or top and bottom (vertical installation)

DRIVE UNITS:

- Drive and control (VFD)
- Inverter ready constant speed drive

THE PROMISE:

With Heatex as the leader of air to air 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 an optimized solution for your application.

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

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

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

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

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

AHRI CERTIFIED® www.ahridirectory.org Air-to-Air ERV AHRI Standard 1060 Energy Recovery COMPONENT is certified. Actual performance in packaged equipment may vary.

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.