



# Q2

**THE PROMISE  
THE PROOF  
HEATEX**

AIR-TO-AIR HEAT EXCHANGERS

**HEATEX**



“ We provide the truth in facts and figures, and do not make greater claims than our products can live up to. By being open in our communication and dialogue, we build one of the greatest assets a company can have – a good relationship with our customers.”

Knud Foldschack, CEO, 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.



HEATEX Q2

## **THE PROMISE: HEATEX WILL CONTINUE TO IMPROVE ITS PRODUCTS**

Our model Q is a high-performing, segmented rotary heat exchanger designed to be fitted inside air handling units, mainly for comfort ventilation applications. The airflows can be oriented side-by-side or top and bottom. The large casings and matrix are supplied in segments to be reassembled on site and the clever design of this model allows for a very rapid and thus 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 modifying the design of the wheel, even higher efficiencies can be achieved.

Heatex constantly works in close co-operation with its suppliers and customers to improve model Q as well as its other products.

## **THE PROOF: Q2 – EXTRA SLIM AND STABLE CASING IMPROVES OVERALL EFFICIENCY**

In our model Q2, the total width of the casing for a given wheel size is made as slim as possible without compromising stability. Thus, a specific application can be designed at a smaller footprint. Or vice versa, for a given AHU, the wheel inside a given casing can be made larger and thus give you better overall efficiency.

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

Several reinforcements, for instance on the outer rim and the brush holder, gives model Q extra stability which reduces handling difficulties, increases the expected operational lifetime of the system and reduces the risk of downtime.

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





## **ADVANTAGE FOR Q2 SEGMENTED WHEEL**

Apart from the slim and sturdy design of the casing, the great advantage of Q2 segmented wheel is the ability for on-site assembly. This provides lower transportation costs and easier on-site handling. Moreover, to build in a Q2 into an existing AHU is easier than ever. The modular design of the wheel and casing allows you to assemble it inside the AHU if necessary.

The casing is only 140 mm (5,5 in.) larger than the wheel diameter. Minimum total size of Q2 is 1340 mm (52,76 in.) square with a 1200 mm (47,25 in.) wheel. The largest wheel is 3800 mm (149,60 in.) in diameter and with that, you can have the square casing from 3940 (155,12 in.) up to 4500 mm (177,17 in.).

A further refinement is that we have made it possible to make variably adjustments to the position of the shaft in all directions to achieve for a perfectly balanced fit in the AHU.

Functionality:

- Heat recovery for pre-cooling or pre-heating of supply air
- Moisture recovery / humidity control
- Air flows ranging from 5,000 to 200,000 m<sup>3</sup>/h (30 CFM to 120 000 CFM)

Advantageous features:

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

## SPECIFICATIONS

### MATRIX MATERIALS:

Aluminum only.  
Epoxy coated aluminum.  
Silica gel coated aluminum.  
Hybrid (Silica gel coated corrugated aluminum, non coated flat aluminum).  
Molecular Sieve 3A coated aluminum.

### FRAME MATERIAL:

Galvanized steel profiles and covers in galvanized steel sheeting.

### SEALING:

Brush sealing.

### FRAME DESIGN:

Airflows side-by-side or top and bottom.

### DRIVE UNITS:

Constant speed drives. Variable speed with various drives and operation controllers.

## THE PROMISE:

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

## THE PROOF:

We will respond quickly to your inquiries and requests, as we have a worldwide network in sales and technical support to assist you in finding the best heat exchanger for your application.

All Heatex products are custom made and designed to precisely match the customer's technical specifications. Heatex Select, always available on-line for free at [heatex.com](http://heatex.com), enables accurate calculations of the performance of a product under different conditions. This means that you can specify the exact design of the heat exchanger best suiting your requirements.

We have a well established reputation of being honest and reliable. Heatex has been awarded several certifications covering product and operation quality worldwide to prove this, for example Eurovent, GOST, AHRI, RLT-Hygiene and ISO 9001.

Moreover, our products have been tested in real life and proven to have high efficiency, which is the base for a fast ROI.

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



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.