



IA

**INDUSTRIAL
APPLICATIONS**

**THE PROMISE
THE PROOF
HEATEX**

AIR-TO-AIR HEAT EXCHANGERS

HEATEX

INDUSTRIAL DEHUMIDIFICATION AND ENERGY RECOVERY SOLUTIONS

Many industrial processes generate large amounts of hot and humid air. These processes have a great potential for energy and heat recovery, which reduce the energy consumption drastically, consequently minimizing costs as well as the environmental impact.

Humidity control is a significant aspect for many types of process industries. Since humidity affects almost all materials, it is a particularly important factor to take into account for industries processing hygroscopic materials.

Heatex heat exchangers are an excellent option for process heat recovery and dehumidification. Our products are available in various materials and configurations. We have a wide range of options for almost all applications.



THE PROMISE: YOUR ONE SOURCE FOR ENERGY RECOVERY SOLUTIONS

Heatex is a leading innovator within the air-to-air heat exchanger industry. We are a valuable partner in helping to determine the right solutions as part of beneficial forward planning for industrial air-to-air heat exchangers installations. Each application has particular conditions and specification requirements. Our innovative solutions and cutting edge competence enable us to find the best approach, especially when the heat exchanger functionality is so important to achieving the best results.

Our air-to-air heat exchangers are ideal for numerous industrial applications including dehumidification and water removal, process heat or refrigeration recovery and humidity transfer.

THE PROOF: UNMATCHED TECHNICAL AND APPLICATION EXPERIENCE

Selecting the right air-to-air heat exchangers for a particular industrial application often involves advanced technical calculations to ensure that the desired performance is obtained. We have decades of experience in designing and manufacturing heat exchangers. This expertise allows for distinctive heat exchanger design features that are necessary to satisfying the varied conditions found within the industrial sector.

We are also familiar with relevant rules and regulations that govern numerous application areas and is an experienced partner for entrepreneurs, engineers, contractors and architects.



ADVANCED CALCULATION SUPPORT

Heatex Select, our software tool available in many languages, accepts wide-ranging parameters and gives rapid results regarding optimal heat exchanger design and efficiency together with tight specifications. In addition, our advanced design and calculation tools can be used to calculate requirements at the development stage of a project by even designing heat exchangers that do not exist yet, accelerating the decision-making process and reducing lead times.

FLEXIBLE SOLUTIONS WITH QUALITY COMPONENTS

Compared to liquid-air heat exchanges, air-to-air heat exchangers are simpler to install, easier to maintain and more economical to purchase and operate.

Heatex provides a wide range of models, sizes and configurations. In addition, we can produce models that are beyond the standard offering to give alternative, customized solutions. Our heat exchangers are available in different materials to fit in various environments. This also applies to the sealing and coating materials.

- **EXCELLENT ROI**

High efficiency combined with low initial cost and minimum maintenance gives a fast return of investment.

- **CUSTOMIZED SOLUTIONS**

Our products are carefully designed to meet the demands for specific applications.

- **WIDE RANGE OF OPTIONS**

We offer an extensive range of design options regarding materials and sizes to suit various application and performance requirements.

- **TECHNICAL EXPERTISE**

Our application specialists are able to find the optimal solution for every project.



INDUSTRIAL AIR-TO-AIR HEAT EXCHANGER APPLICATIONS

Many processes generate large amounts of hot, humid air. Heatex heat exchangers are an excellent option for both dehumidification and process heat and energy recovery.

CONDENSATION AND PROCESS DRYING

The high effectiveness and large plate area makes Heatex crossflow heat exchangers an excellent choice for vapor condensation and removal. For drying textiles, garments and finished goods Heatex wide plate spacing and opened plate design enables the removal of fibers. The optional silicon sealant allows temporary vapor temperatures up to 200 °C.

For wood drying, the wide range of sizes of Heatex crossflow exchangers accommodates large flow rates and still low velocities and low pressure drops. Open plate spacings allows for easy cleaning. Optional epoxy coated plates and powder coated framework prolongs the service life of the exchangers in corrosive environments.

Other suitable application areas are for example drying grains or tobacco.

DEHUMIDIFICATION SOLUTION

A combination of crossflow and rotary exchangers is an effective way to manage humidity in challenging locations, such as tunnels and mine shafts, while minimizing overall energy consumption.

PROCESS HEAT RECOVERY

In processes where large amounts of waste heat are generated, Heatex crossflow heat exchangers can be employed to recover energy from contaminated airstreams. The recovered energy can then be used to pre-heat the incoming process air, significantly reducing overall operating and production costs. Heatex standard range keeps the internal leakage rate down below 0,1% of nominal airflow.

EQUIPMENT ENERGY RECOVERY

Many industrial and manufacturing finishing equipment, such as paint spray booths require large volumes of high-temperature air, at great energy consumption. Both Heatex crossflow and rotary exchangers are good choices for energy recovery, significantly reducing operating costs. The stability and open plate design of Heatex plate heat exchangers allows for good cleaning possibilities of built up paint contamination.





THE PROMISE:

With Heatex as the leader of air-to-air heat exchangers and energy recovery solutions, you will have the best possible partner for your heat transfer applications.

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, AHRI, RLT-Hygiene and ISO 9001.

Moreover, 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.



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 fluid dynamics, 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.