



# **DATA CENTER COOLING**

## **INDIRECT EVAPORATIVE COOLING**

**THE PROMISE  
THE PROOF  
HEATEX**





## INCREASED ENERGY SAVINGS COMPARED TO CONVENTIONAL COOLING SYSTEMS

Indirect evaporative cooling uses heat exchangers and psychrometric principles to cool supply air without conventional air conditioning or adding moisture to the conditioned space. The combination of the low cost, environmentally friendly cooling without the addition of latent energy make IEC an excellent alternative for many applications including data center thermal management, schools, hospitals and office buildings. In certain applications the same cooling heat exchangers can be used in winter heating applications for energy recovery.

## TEMPERATURE REDUCTIONS AT LOW OPERATION AND INSTALLATION COSTS

Ideally suited for warm, dry climates, IEC provides excellent cooling potential with low operational and first cost- Ambient temperature reductions of 6-8 °C (10-15 °F) are typical in summer conditions.

- **ENERGY SAVING**

Up to 28% compared to conventional free cooling and 52% compared to air-cooled FC-Chiller alternatives.

- **ENVIRONMENTALLY FRIENDLY**

IEC comfortably conditions spaces without using refrigerants.

## **THE PROMISE: HEATEX IS THE LEADING SUPPLIER OF CUTTING EDGE PRODUCTS FOR EVAPORATIVE COOLING APPLICATIONS**

Heatex began to work with evaporative cooling in the 80's, through this experience we have polished our knowledge and improved from our successful cases. Evaporative cooling requires special types of plate heat exchangers, which can guarantee tightness, low pressure drop and high corrosion resistance. Heatex plate heat exchangers can answer all these tough requirements while providing up to 80% exchanger efficiency.

## **THE PROOF: HEATEX PLATE HEAT EXCHANGERS – THE PREFERRED CHOICE FOR EVAPORATIVE COOLING APPLICATIONS**

Heatex have produced hundreds of plate heat exchangers for evaporative cooling applications. On each project we work closely with our customers, ensuring their needs are met on a case by case basis. The benefits of Heatex go far beyond a superior product and extend into unparalleled customer service.

- **SUPERIOR PERFORMANCE**

Our H2 plate heat exchanger provide up to 88% efficiency for you IEC application.

- **PROVEN WATER TIGHTNESS**

Heatex' unique assembly method and high performance sealant, ensure the best water tightness possible.

- **LONG SERVICE LIFE**

For IEC we provide epoxy coated aluminum plates and painted framework. That together with our in-house developed sealing methods result in heat exchangers that will last for many years to come.

- **QUALITY ASSURANCE**

All units are tested with air and water for tightness to ensure that our products live up to the customers' high demands for tightness.

- **EXPERIENCED DEVELOPEMENT**

Unique plate pattern that gives low pressure drop and high efficiency. High quality material that withstands tough environmental challenges.

- **SUPPORT**

Our skilled and experienced application engineers support our customers during the entire development process.

## DATA CENTER COOLING

Data centers are critical components in the global IT infrastructure. Global commerce demands dependable, uninterrupted data flow worldwide. Meeting the exponentially growing demand for data, rising energy costs and demand for green facilities are challenges facing service providers today.

Thermal Management is a key factor in the cost and operation of data centers. Heatex plate heat exchangers, coupled with evaporative cooling technology, provide an efficient, low cost and environmentally friendly alternative to traditional methods of cooling data center electronics. Applying indirect evaporative cooling methods allows the service provider to remove excess heat in a closed loop environment, keeping unwanted external dust and moisture away from sensitive and critical process components.

Heatex provide a wide array of heat exchangers and engineered services to select the best possible solution for each individual project. With decades of experience, Heatex have the products, tools and experience to maximize up front first cost savings, minimize annual operating cost, and optimize return on investment.









## THE PROMISE:

With Heatex as the leader of plate heat exchangers and IEC technology, 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](http://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.