MARKET LEADER FOR FUNCTIONAL SURFACES
EFFICIENT SOLUTIONS FOR WATER AND AIR TREATMENT

Cooling tower fills and components
FUNCTIONAL SURFACES

Evaporative cooling towers are still considered the most efficient way of cooling process water at industrial sites all over the world. As the pioneer of plastic components for cooling tower applications ENEXIO helps customers to meet their requirements.
Since the takeover of the Heat Exchangers segment of the GEA Group AG by Triton Partners, the activities in the cooling tower business, water treatment, mass transfer and agricultural engineering have been combined under the name ENEXIO.


With our experience and pioneering spirit in engineering, manufacturing and service, we deliver state of the art solutions for cooling towers, water and wastewater and mass transfer applications – always inspired by our profound sense of responsibility for the overall management of resources and a clean environment. We deliver excellence and achieve customer satisfaction everywhere in the world. Our global network of employees works with an unceasing commitment to high quality, ecology and cost effective products and services.

Our brands BIOdek®, TUBEdek®, PLASdek®, MASSdek®, SANIPACKING® and HUMIPACKING® stand for our know-how in different applications.

Components & Solutions

- PLASdek® cross-fluted fill
- PLASdek® vertical flow fill
- PLASdek® drift eliminator
- PLASdek® trickle grid
- SANIPACKING® anti-legionella drift eliminator
COOLING TOWER FILLS, DRIFT ELIMINATORS AND MORE

ROBUST – RELIABLE – RESISTANT

Due to constant product development and optimization we offer many different fill media structures and surfaces that allow the adaptation of the fill to the specific water quality in the cooling circuit and thus improve the efficiency of your cooling process. Our offer also includes different types of drift eliminators, air inlet louvres and spray nozzles. And of course we are there to help you choose the right components and combinations!
Fills for counter-flow cooling towers
The high cooling capacity of our PLASdek® film-type fills is achieved due to their well-known cross-fluted structure. This structure allows an intensive mix of cooling water and air flow and together with the specific surface area of the fill, is one of the prerequisites for a high cooling performance. Depending on the type of configuration we have specific surface areas between 100 and 243 m²/m³ available. Our fill types with vertical orientation of the channels minimize deposits on the surface. In applications with extremely poor water quality we recommend the use of our splash-type fills or grid-media which are designed to facilitate disassembly and cleaning. Specific surface areas range between 70 and 125 m²/m³.

Fills for cross-flow cooling towers
We offer special cross-flow fill design with louvre and integrated drift eliminator sections adaptable to all existing cross-flow cooling towers.

Drift eliminators
Our cellular drift eliminators in PP and PVC offer high separation efficiency and are suitable for the use in small and medium sized cooling towers. The profile drift eliminator is suitable for use in large cell cooling towers as well as in natural draft cooling towers. All these drift eliminators are EUROVENT certified.

Splash and trickle fills
High stability and an easy and economical installation are important features of our PLASdek® splash and trickle fills. Built from mechanically joined grids they are easily cleaned and especially suited for medium to strongly polluted cooling water. Our high performance grid packings provide an optimized pressure drop. Available in various measures and materials, such as flame retardant Polypropylene (PP), high temperature PP or the special SANIPACKING PP, our grid can be adapted to a wide range of requirements.

Antilegionella components – SANIPACKING®
In many countries the problem of Legionella pneumophila bacteria in the cooling water requires special attention. For such cases we have developed SANIPACKING® fills and drift eliminators that inhibit the growth of bacteria on the biggest product surface of a cooling tower.

Air inlet louvres and spray nozzles
Our product portfolio is completed with air inlet louvres in different designs as well as a wide range of spray nozzles.

Advantages of PLASdek® Fills
- Cross-fluted fills for high cooling capacity
- Vertical flow fills for high fouling applications
- Fills for cross-flow cooling towers in blocks for quick and easy installation
- Flexibility in dimensions, available in PP and PVC

Advantages of PLASdek® Drift Eliminators
- High efficiency
- Low pressure-drop
- Flexibility in dimensions, available in PP and PVC
- Different stability grades
THE RIGHT SOLUTION FOR YOUR PROJECT

We are always looking for solutions to help our customers. Like this example: Our mobile welding container is for rent and contains two welding machines to be operated simultaneously. This means you can achieve cost savings in transport and space. A good solution to get big projects done cost efficiently and in less time. Ask us!
Environmental-friendly on-site welding

For the on-site welding we rent the welding equipment and ship it to the building site. For bigger projects we use a container equipped with two welding machines. This presents an easy and time-saving way to produce the blocks. The only requirements from the customer’s side are the local workers, a hard standing area for the erecton of a tent, sufficient space to receive the foils and sufficient space to store the assembled modules.

In comparison to gluing, the welding technology is environmentally friendly and protects the health of the workers, as no adhesives and thus no solvents need to be used.

The advantages besides the above mentioned aspects: Cost saving transport as the extruded foils are shipped in a space-saving manner. Local workers carry out the welding process on-site, thus savings in labor costs are achieved. Our ENEXIO supervisor can help to start the machines, optimize the performance, as well as teach and train the local workers.

Our on-site-welding machines provide the same quality as the machines in our production facility. The strength of our bonding method – up to 20,000 sealing points per cubic meter create strong modules – is certified by accredited test laboratories, for example by TÜV, the German Technical Inspection Agency.

Engineering Support

Beside other factors the performance of a cooling tower depends on the right choice of components. We help you choose the right fill or fill combination and drift eliminators, taking into account the water quality, situation on-site, ease of maintenance, weather resistance and noise emissions. Our advice is based on long-term research and development and data collected from our own test cooling tower as well as close collaboration with university and research institutes.

Planning software

We use proprietary planning software to find the optimal thermodynamic design of your cooling tower components. This tool helps to find the best configuration of fills, fill combinations and drift eliminators. Every solution we propose is unique because every element – treatment processes, media, products and infrastructure – is customized to deliver the client’s performance and productivity objectives.

More information can be found here: 2h-solutions.enexio.com

ENEXIO Water Technologies GmbH
2H Components and Solutions
Dieselweg 5, 48493 Wettringen, Germany
Phone +49 25 57 / 93 90 0, Fax +49 25 57 / 93 90 49
2h.germany@enexio.com, www.enexio.com