

Applications

Components for Cooling Towers



Know-how

Solutions for the cooling tower industry

Evaporative cooling towers are still considered the most efficient way of cooling process water at industrial sites all over the world.

With economic and ecological factors always an important consideration, construction and operation of wet cooling towers necessitates the use of efficient fills and drift eliminators. As the pioneer of plastic components for cooling tower applications we help our customers to meet their requirements.



Different requirements

Our components for cooling towers

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.

Fills for counter-flow cooling towers

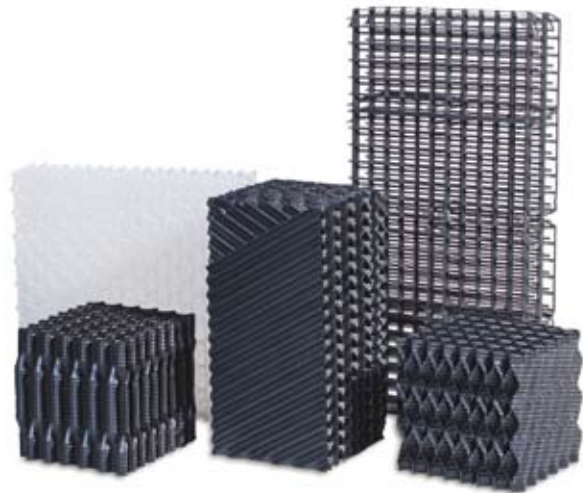
The high cooling capacity of our FKP and FC10 film-type fills is achieved due to their well-known cross-fluted structure.

This structure allows an intensive mix of cooling water and air flow and together with the specific surface of the fill, is one of the prerequisites for a high cooling performance. Depending on the type of configuration we have specific surfaces between 100 and 243 m²/m³ available.

Due to the vertical orientation of the channels our KVP, KGP and FC33 fills minimise deposits on the surface. In applications with very poor water quality we recommend the use of our splash-type fills NET 150 or grid-media FC70 which are designed to facilitate disassembly and cleaning. Specific surfaces range between 70 and 125 m²/m³.

Fills for cross-flow cooling towers

With our KSN and FX fills we offer special cross-flow fill design with louvre and drift eliminator sections adaptable to all existing cross-flow cooling towers.



Advantages of 2H PLASdek® fills

- Cross-fluted fills for high cooling capacity
- Vertical flow fills for high fouling applications
- Flexibility in dimensions
- Available in PP und PVC

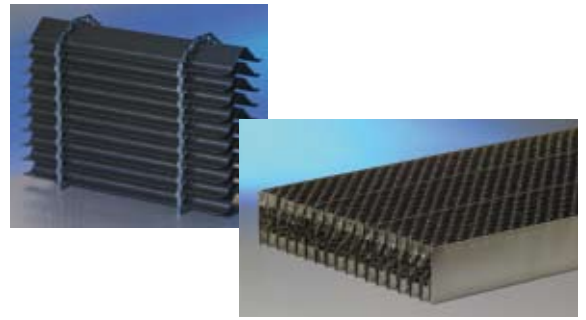


Drift Eliminators section

Drift eliminators

Our cellular drift eliminators TEP 130 and TEC 130 offer high separation efficiency and are suitable for the use in small and medium-sized cooling towers.

The drift eliminator profile TAP 160 is suitable for use in large cell cooling towers as well as natural draft cooling towers.



Air inlet louvres and spray nozzles



Our product portfolio is completed with air inlet louvres LEP 065 and DL65 as well as spray nozzles.



Advantages of GEA 2H drift eliminators

- High efficiency
- Low pressure-drop
- Flexibility in dimensions
- Available in PP und PVC

GEA 2H SANIPACKING®

In many countries the problem of Legionella pneumophila bacteria in the cooling water requires special attention. For such cases we have developed 2H SANIPACKING® fills and drift eliminators that inhibit the growth of bacteria on the product surface.



Flexibility

Production and materials

Most of our products can be produced in PP and PVC. With our patented manufacturing processes we can offer the reinforcement of the edges of our fills as well as a uniform material thickness across the surface.

Best available techniques

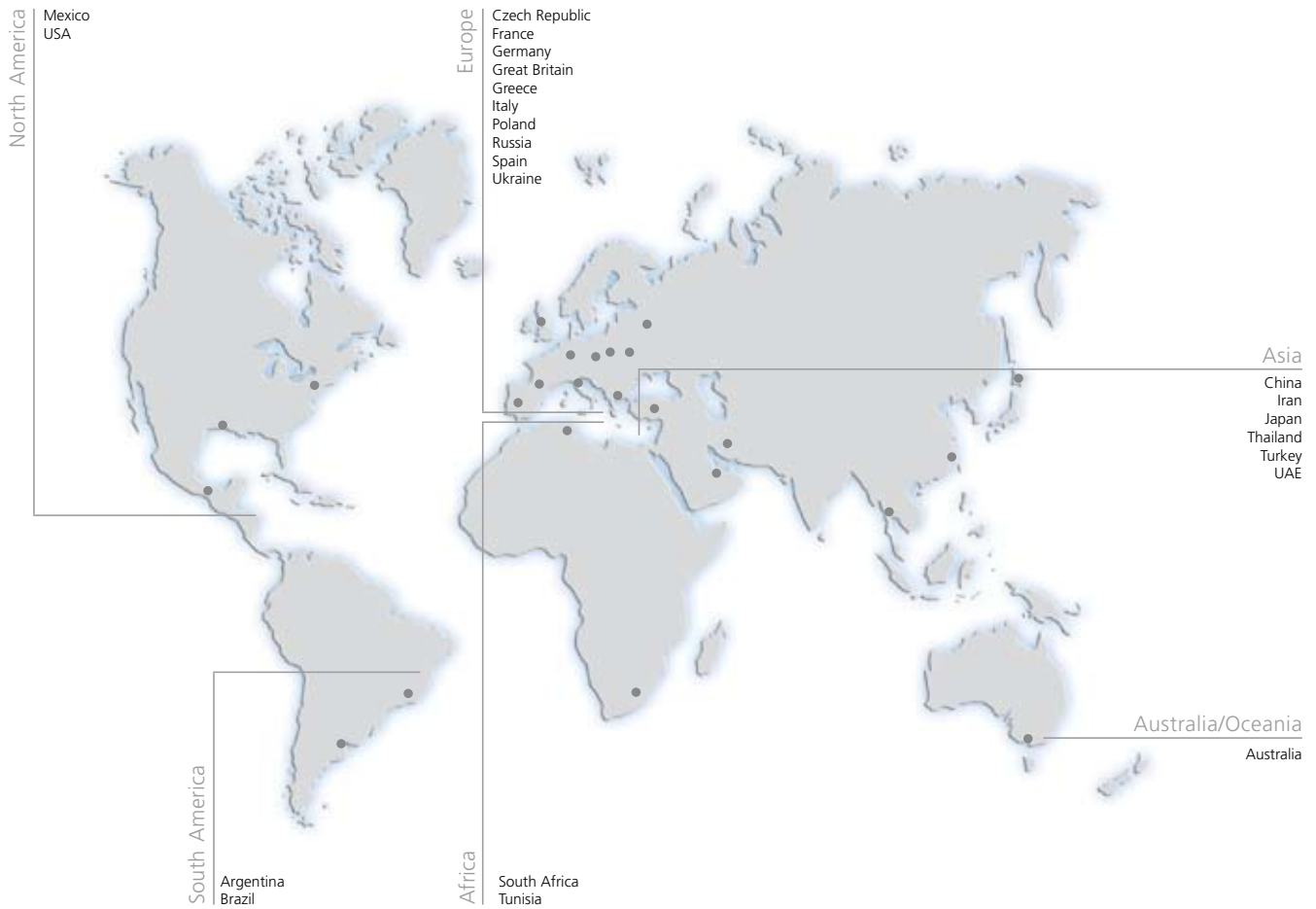
Research & Development

GEA 2H Water Technologies operates a test cooling tower. This enables us to achieve continuous technical improvement of our products to offer our customers the best available techniques today and in the future.



Leading competence

Worldwide presence



2H- PLASdek®
 DRAX, Great Britain: Replacement and upgrade of fills (1999, 2001)



2H- PLASdek®
 Unterhaching, Germany: First installation of fills and drift eliminators (2006)



2H- PLASdek®
 Neurath, Germany: First installation of fills and drift eliminators (2008)



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