



Air Treatment Division



## GEA Heat Exchangers

Efficient Energy Exchange through product diversity



## GEA Heat Exchangers

Heat exchangers are used in almost all industrial facilities to transfer heat from one medium to another. The fins of a heat exchanger serve to enlarge its effective surface area, in order to optimize the efficiency of heat transfer. The design of a specific heat exchanger will depend on its application and on performance specifications. The factors governing the choice of material for a heat exchanger likewise include application and performance.

### Arguments that count

- Are you looking for a manufacturer of heat exchangers with decades of experience (in our case, almost 80 years)?
- Do you regularly need new heat exchangers with a variety of specifications, but do you want to do business with only one manufacturer?
- Do you want prompt reaction from a local specialist, one who can effectively help you solve your requirements – and yet who is active and available around the world?
- Are you looking for a manufacturer who as a matter of course satisfies all commonly applied standards in design and production of its heat exchangers?
- Do you demand a top-class cost-benefit ratio?



If your answer is a definite "Yes" to all of the above questions, then your logical and safe choice is for heat exchangers from GEA. Regardless of the specifications that apply in your area of work and for your particular heat-exchanger application, GEA will certainly convince you by its top-performance solutions – backed up by decades of GEA experience.



Our worldwide distributing organization sees to that – onsite at your location. GEA tenders are carefully tailored to fulfil only your individual requirements. Our comprehensive offering of heat exchangers – manufactured from a wide range of materials by a diversity production processes – means you can be absolutely sure of receiving exactly the heat exchanger you need. We select precisely the optimal solution for your requirements – for example, from a choice of 50 different types of piping in zinc-plated steel, stainless steel, copper-aluminium, or copper-copper. Perfectly in accordance with your specifications.

As a result, your initial inquiry will be quickly followed by contact from your personal GEA consultant, and by our offer. And since we make use of three production plants in the manufacture of your heat exchangers, you won't have long to wait until your order arrives. You'll save time and money by professional, experienced support from GEA – from initial planning to installation of equipment.



## GEA heat exchangers - truly impressive diversity

Chemical process engineering, motor-vehicle manufacturing, series production in industrial plants, construction of power plants, ship construction, and applications involving air-conditioning and ventilation systems – for all of these industrial activities, decision-makers are satisfied to have decided for heat exchangers from GEA.

Want to take a look at our diversity?

Examples of GEA heat-exchanger models:

- A total of 50 piping types, made of zinc-plated steel, stainless steel, copper, and special materials
- Zinc-plated steel models with elliptical finned pipes
- "D" models for systems that require special acceptance procedures
- "E" models for systems not requiring special acceptance procedures
- Smooth-pipe heat exchangers for use in contaminated air flow, with stainless steel and completely zinc-plated steel components
- Heat exchangers completely coated with Gotekplast or epoxy resin
- Zinc-plated steel heat exchangers with various fin configurations
- Heat exchangers completely finished with hot-dip galvanizing
- Heat exchangers executed in materials 1.4301, 1.4541, and 1.4571
- Heat exchangers with elliptical stainless-steel core piping
- Heat exchangers with hot-dip-galvanized steel-finned surfaces



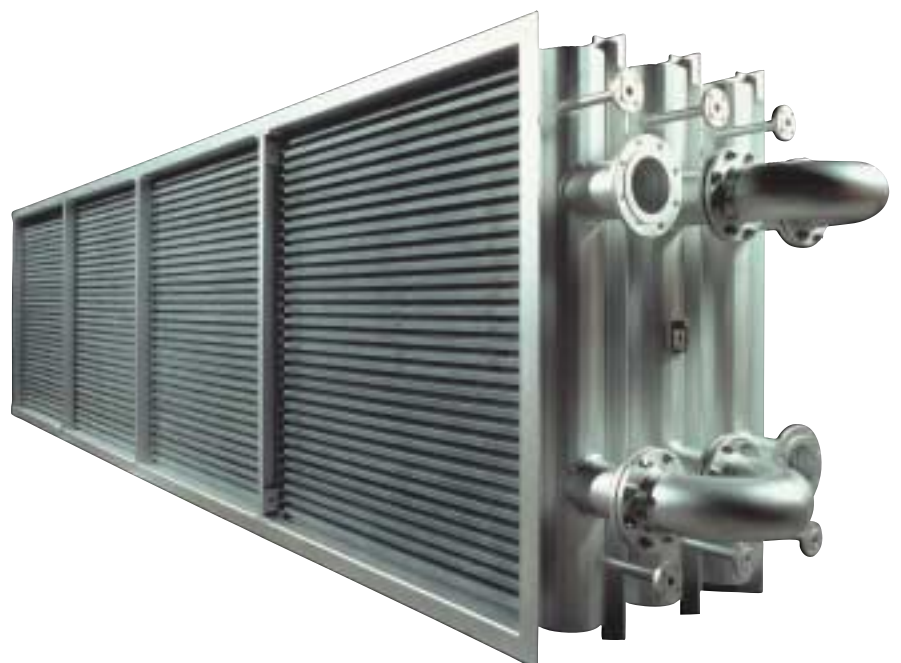
**Compact heat exchangers:**

- Copper-aluminium models, also with:
  - Epoxy-resin immersion coating
  - Gotekplast immersion coating
  - Strip roller coating
- Copper-copper models, also with:
  - Epoxy-resin immersion coating
  - Gotekplast immersion coating
- Heat piping
  - Copper-aluminium models
  - Copper-copper models



**Examples of areas of application for heat exchangers made by GEA:**

- Air heaters for pre-heating in vehicle paint lines
- Heat exchangers for energy recovery, operating on the basis of combined circulation systems
- Air heaters and air coolers for air treatment on ships
- Heat exchangers for chemical, production, and process-engineering environments
- Air pre-heaters for power plants
- Heat piping in air-conditioning and ventilation applications
- Air heaters, air coolers, evaporators, and condensers for air-conditioning and other air-handling systems
- Air heaters and air coolers for central ventilation systems
- Air heaters and air coolers for cleanroom applications
- Air heaters and air coolers for air treatment in industrial facilities
- Air coolers for aggressive media in process engineering
- Air coolers for solvent condensation
- Air heaters and air coolers for climate control and ventilation in civil-engineering applications



## GEA heat exchangers - truly convincing reference projects

The top quality of GEA heat exchangers has become a hallmark of the GEA brand on the market. Production of these heat exchangers takes place in a European GEA production plant: on the basis of currently valid standards and required operating conditions for the necessary safety category, as stipulated by European Union Directive 97/23/EG for Pressurized Equipment. If requested, we can arrange for official turnover procedures by national acceptance companies. Eighty years of experience in the production of heat exchangers have produced a truly convincing selection of highly diversified and impressive reference projects executed by GEA.





Companies in all sectors of industry have learned to depend on the reliability of GEA heat exchangers – in extensive areas of process, production, drying, air-conditioning, and environmental technology.

**And, to conclude, just an overview of our satisfied customers:**

- **Automotive industry:** VW, Opel, DaimlerChrysler, Volvo, Audi, BMW, Ford, Porsche
- **Process technology:** Wacker-Chemie, Bayer, Henkel, Degussa
- **Mechanical engineering:** Siemens, ABB, ThyssenKrupp
- **Infrastructure and systems contracting:** Eisenmann, Dürr
- **Cleanroom technology:** Companies not only in Germany, but throughout the rest of Europe and in Asia: e.g., China, Singapore, Taiwan, and the Philippines





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|--|--|---|--|
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