

10 GEA Messo

GEA Messo GmbH (www.messo.com)

Worldwide active plant constructor specialized in the fields of crystallization from solution focussing on the chemical industry, the hydrometallurgy, the environmental protection and the food industry.

Exhibit: Waste water treatment by crystallization (model)

GEA Messo AG (www.messo.ch)

We design and supply complete evaporation and crystallization plants worldwide for the chemical and metallurgical industry, for effluent treatment, for salt works as well as plants for the chloralkali industry.

Exhibit: Model of a plant

11 GEA Process Engineering France Kestner Division (www.gea-pe.fr)

We design and deliver complete evaporation and crystallization lines and units processing highly corrosive streams such as recovery and upgrading of inorganic acids. Very recently, Kestner became a division of GEA Process Engineering France.

12 GEA Wiegand (www.gea-wiegand.com)

Evaporation plants, distillation and rectification plants, complete processing lines for the production of bioethanol and beverage alcohol.

Exhibit: Model of an evaporation plant and 3D presentation.

13 GEA Filtration (www.geafiltration.com)

GEA Filtration is a world leader in crossflow membrane filtration, with reverse osmosis and nano-, ultra-, and microfiltration as core technologies.

Exhibit: High pressure reverse osmosis pilot plant

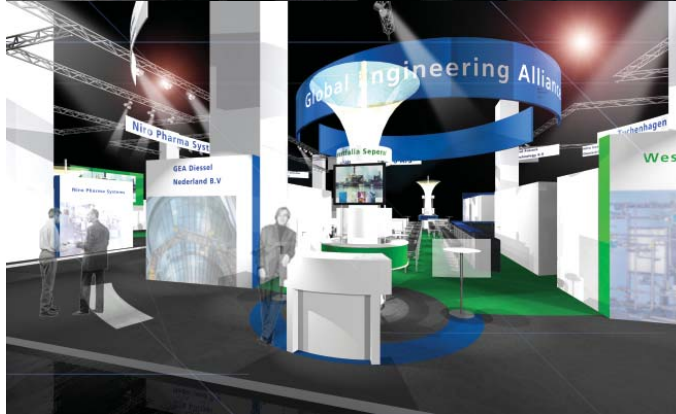
14 GEA Jet Pumps (www.geajet.com)

Jet pumps, jet vacuum pump systems, steam jet/vacuum cooling plants, degassing and condensation plants, heating/cooling plants, jet gas and Venturi scrubbers.

Exhibits: Model of a steam jet cooling plant, laboratory gas scrubber LGW DN80

15 Niro Process Technology B.V. (www.niro-pt.nl)

Niro Process Technology provides engineering and design of continuous suspension melt crystallization process and proprietary equipment including scraped surface crystallizers and various wash column separation technologies. Industrial applications include: organic chemical purification and water recovery in freeze concentration applications.



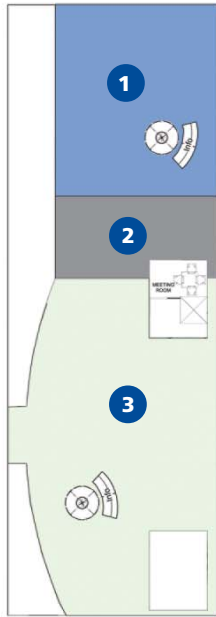
You will find GEA Group in
hall 4.0, stand D13 - G22



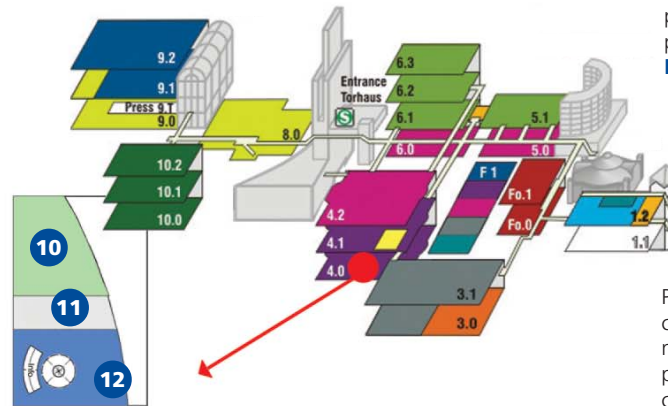
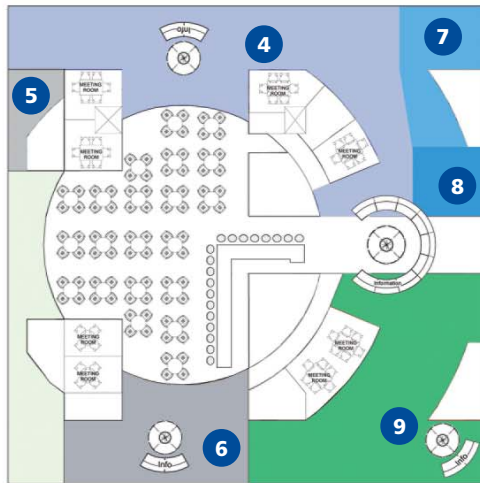
You are invited!

Visit us at ACHEMA 2006
in Frankfurt. GEA Group is
looking forward to seeing you.





Welcome to Frankfurt!
You will find GEA Group
in hall 4.0, stand D13 - G22



1 GEA Energy Technology Division

GEA Luftkühler (www.gea-luftkuehler.com)

Air cooled heat exchangers with steel galvanized and aluminium finned tubes for all industrial applications (air coolers, natural gas coolers, evaporative air coolers, double-tube heat exchangers). Equipment for the PA process as well as for other oxidation processes, e.g. desublimators, partial condensers (liquid condensers), post reactors, gas coolers and additionally mini-desublimators for environmental protection and vacuum units.

GEA Energietechnik (www.gea-energietechnik.com)

Direct air cooled condensers; mechanical and natural draught wet cooling towers in concrete, wood and fibreglass; hybrid cooling systems for plume abatement and water saving applications. Specialities: global network of local partners und representatives, global sourcing capabilities, manufacturing facilities around the world.

Exhibits: Natural draught wet cooling tower (model)

Polacel (www.polacel.com)

Polacel designs, manufactures and maintains corrosion-free cooling towers. Due to our modular concept of crossflow and counterflow cooling towers we are able to meet the specific requirements of our customers with a proven technology since 1967.

Products: Counterflow cooling towers, crossflow cooling towers, repair and service of cooling towers, revamping, noise capacity and vibration measurements, engineering/advice, rental

Exhibits: Counterflow cooling tower type CMDR (model)

2 GEA Ecoflex (www.gea-ecoflex.de)

Gasketed, semi-/ fully-welded and brazed plate heat exchangers for all thermal processes in the chemical industry.

Exhibits: Gasketed, brazed and fully welded Plate Heat Exchangers

3 Niro Pharma Systems (www.niropharma.com)

Niro Pharma Systems is world leader in providing advanced processing solutions for solid dosage forms to the pharmaceutical industry. Based on a dedication to research and durable quality, Niro Pharma Systems offers a wide range of solutions, from individual pieces of equipment to complete integrated plants, by uniting the state-of-the-art technologies of Aeromatic, Buck, Collette, Courtoy, Fielder, Lyophil, Nica and Niro.

4 Niro (www.niro.com)

Niro is a world leader in industrial drying with spray drying, spray cooling, flash drying, granulation and fluid bed processing as core technologies. Core applications include organic, inorganic and fine chemicals, pharmaceuticals, ceramics and hard metals, pigments, polymers and many more.

Exhibits: IFD™ spray dryer, MOBILE MINOR™ spray dryer, SWIRL FLUIDIZER™ flash dryer, F1000 Atomizer, F1.5X Atomizer, Model of an IFD™ spray dryer, Cut-out of a fluid bed with GILL PLATE™

GEA Liquid Processing Scandinavia A/S (www.gea-liquid.dk)

GEA Liquid Processing Scandinavia is one of the leading suppliers of engineering services, complete process plants and machinery to the pharmaceutical, biotech and personal care products industries. GLPS's core competencies include CIP/SIP plants, tablet coating formulation

1 GWA Gesellschaft für Wärme- und Anlagentechnik (www.gwa-berlin.de)

Sales Partner of GEA Group

GWA Gesellschaft für Wärme- und Anlagentechnik mbH is an engineering company for the design and erection of complete cooling systems. Core of these systems are various components of GEA Group.

plants, sterilisation plants, kill plants, process super skids as well as process integration in general.

Exhibits: GEA Batch Formular, High Shear Mixer Unit, CIP Unit

5 Barr Rosin (www.barr-rosin.com)

Airstream Drying and Cooling Systems: Ring, Flash, Fluid Bed, Rotary, Rosinaire, Column, Exergy and Swirl Fluidizer™.

6 GEA Diessel Pharma & Biotech (www.diessel.com)

Process systems for the manufacturing of liquid products for the pharmaceutical and biotechnological industries. Complete plants and components for the production of syrup, suspensions, parenterals, and blood plasma as well as plants for the production, storage and distribution of clean utilities. Systems for the preparation of media, fermentation and harvest of microbial and cell fermentation.

Exhibits: Sterile Process Technology, 100 l Fermenter Skid

7 Tuchenhagen (www.tuchenhagen.de)

Process components for liquid processing: VESTA sterile valves and VESTA Multiport valve ring distribution systems, VARIVENT® and STERICOM® valves, T.VIS® valve information systems, Tuchenhagen®-VARIFLOW centrifugal pumps, VARIPURE® cleaning devices, VARINLINE® measurement and control systems

8 Niro Soavi (www.niro-soavi.com)

High pressure homogenizers and positive displacement pumps.

9 Westfalia Separator (www.westfalia-separator.com)

As a world market leader in centrifugal separation, Westfalia Separator offers **Care**Technology, separators and decanters, package units, membrane filtration systems, hydrocyclones, process lines, CIP units, engineering and process automation for the chemical and pharmaceutical industry, biotechnology, mineral processing, environmental technology, starch technology as well as for the recovery of biodiesel and bioethanol.

