

## Service for cooling towers





[GEA Polacel - Background]

## GEA Polacel

GEA Polacel is a company of the GEA Group AG. The GEA Group, headquartered in Bochum, Germany, is a globally successful technology group with more than 250 companies in 50 countries.

The company now focuses on specialty mechanical engineering – especially process engineering and equipment. GEA Group technologies are applied in the food, chemical and petrochemical industries, the energy sector, air treatment and shipbuilding as well as the pharmaceutical and cosmetic industries. The GEA Group is one of the world's market and technology leaders in 90 per cent of its businesses.

The GEA Group is a solid foundation for the GEA Polacel activities and it provides us with greater scope. Good contacts with affiliated organizations that are leaders in our field provide an ongoing stimulus to our own development. This is what makes GEA Polacel a leader in the introduction of technological improvements.



- One contact person for all solutions
- Globally active in more than 40 countries
- Native speakers speak your language
- Individual solutions
- Maximum availability, security of operation and system efficiency



[Reliability]

## Optimal performance

Cooling towers are the reliable, energy-efficient workhorses of process technology and climate control. They provide answers to the requirements of people, equipment and the environment.

In terms of the scope of their task, their maintenance needs are very modest. However, in order to be sure that the cooling tower can create the right conditions under all circumstances, maintenance must be targeted and effective.



[Know how]

## Specialist service

The GEA Polacel service organization specializes in cooling tower maintenance. Irrespective of the brand or model, our specialists know all the ins and outs of the whole technical area.

The GEA Polacel service organization is also involved in the latest developments. This is why we give our customers a guarantee of the best possible cooling tower performance unmatched by any other service organization.



[Flexibility]

## Maintenance, overhaul and revamp

GEA Polacel has more than thirty years' experience in the maintenance of cooling towers. We work in accordance with the requirements described by ISO, VCA, VDMA, CTI and Eurovent. GEA Polacel can carry out the maintenance needed in virtually every location and in practically any time frame.

GEA Polacel's service organization guarantees optimal performance at minimal cost geared to your wishes, whether the maintenance is scheduled or corrective, with or without a contract, and independent of brand or version. If an overhaul or revamp is needed, GEA Polacel can take care of the complete implementation (for example including the removal and disposal of asbestos). We can limit the operating stop to an absolute minimum through thorough preparation. The result is always 'as good as new'.

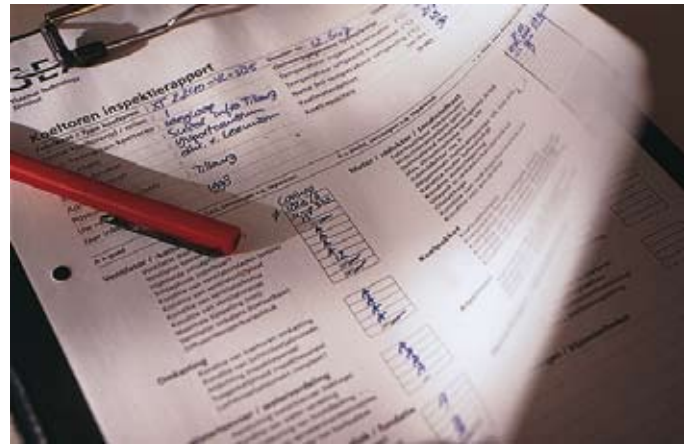
[Product range]

## Periodic inspections

Periodic inspections are the instrument for assuring yourself of problem-free cooling tower operation. GEA Polacel offers a choice of two service models.

In the case of clients with an inspection contract, our experts check cooling towers, record their findings in a detailed report and make maintenance recommendations on the basis of it.

Where the customer has a periodic inspection and maintenance contract, we take care of all the maintenance. This is a comprehensive solution where we adapt our maintenance programme to meet your requirements and your schedule, as set down in clear agreements.



A detailed inspection report will be written at every consult

[Silentness]

## Noise reduction

Noise is becoming an ever more important environmental factor. GEA Polacel engineers can make recommendations about, and install, provisions to make major reductions in noise without any loss in cooling capacity.



[Analyses]

## Capacity measurement

Even when performance remains optimal, the capacity of a cooling tower can drop below the critical level unnoticed. Additional equipment, changes in production or other factors can play a significant part.

The GEA Polacel mobile research department has the measuring equipment that can measure performance with precision. The detailed report will tell you, for example, what you can expect on a particularly hot day. The independent GEA Polacel experts also measure the relevant data upon completion of construction or after an overhaul. Their findings and conclusions give you an accurate picture of the performance in practice.



The complete cooling tower will be checked during an inspection

[Checkup]

## Fans in balance

If a fan is out of balance, there are numerous negative effects. The immediate results are lower efficiency, shorter lifetime, more noise and damage to the drive. We have sophisticated equipment to measure the imbalance and help to eliminate it. A regular check is a sensible preventive measure.

[Increased performance]

## Replace or upgrade

Higher demand for cooling does not automatically mean a new cooling tower. GEA Polacel can increase the capacity. We can get more out of your cooling tower through, among other things, better fill, a more efficient fan and modified water distribution.

[Quality]

## Parts and hire

The GEA Polacel service organization also supplies parts to your own technical services department and supports it with expert advice.

The components are optimally tuned to the application. Most parts can be supplied from stock and prices are very competitive. If you need a cooling tower, either temporarily or permanently, you can also opt for hire, hire purchase or lease. GEA Polacel can offer very flexible customized solutions.

[Guarantee]

## Health and safety

GEA Polacel provides a health and safety plan for each project. It contains guidelines relating to safety, working conditions and cooperation on the project concerned.

On request, the health and safety plan can be amended to dovetail with similar client plans or to suit other implementing parties.



# Companies of the Thermal Engineering Division

**USA**

- GEA Power Cooling Inc. (GPC)  
Lakewood, USA  
[www.geapowercooling.com](http://www.geapowercooling.com)
- GEA Rainey Corporation (GRC)  
Catoosa, USA  
[www.gearainey.com](http://www.gearainey.com)
- GEA Polacel Cooling Towers LLC** (PCLUS)  
Houston, USA  
[www.polacel.com](http://www.polacel.com)
- GEA Power Cooling Inc. (GPC)  
Clearwater, USA  
[www.geapowercooling.com](http://www.geapowercooling.com)

**EUROPE**

- GEA Energietechnik Ltd. U.K.  
Staffordshire, Great Britain  
[www.gea-energietechnik.com](http://www.gea-energietechnik.com)
- 2H Aqua Ltd. UK (ZHKUK)  
Huntingdon, Great Britain  
[www.gea-2h.com](http://www.gea-2h.com)
- GEA Batignolles Technologies Thermiques S.A.S. (BTT)  
Nantes, France  
[www.btt-nantes.com](http://www.btt-nantes.com)
- GEA Airflow Services S.A.R.L. (AFS)  
Nantes, France  
[www.btt-nantes.com](http://www.btt-nantes.com)
- GEA Ibérica S.A. (GIB)  
Igorre, Spain  
[www.geaibericasa.es](http://www.geaibericasa.es)
- GEA Scambiatori di calore S.r.l. (GSC), Monvalle, Italy  
[www.gea-sc.com](http://www.gea-sc.com)
- GEA EGI Contracting/Engineering Co. Ltd. (EGI)  
Budapest, Hungary  
[www.egi.hu](http://www.egi.hu)
- GEA Polacel Cooling Towers B.V.** (PCL)  
Doetinchem, Netherlands  
[www.polacel.nl](http://www.polacel.nl)
- GEA 2H Water Technologies GmbH (ZHK)  
Wettingen, Germany  
[www.gea-2h.com](http://www.gea-2h.com)
- GEA Luftkühler GmbH (GLK)  
Herne, Germany  
[www.gea-luftkuehler.de](http://www.gea-luftkuehler.de)
- GEA Energietechnik GmbH (GET)  
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[www.gea-energietechnik.com](http://www.gea-energietechnik.com)
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**BRASIL**

- GEA Sistemas de Resfriamento Ltda. (GSR)  
Alphaville, Brasil  
[www.geasr.com.br](http://www.geasr.com.br)

**AFRICA**

- GEA Nilenca Ltd. (GNL)  
Germiston, South Africa  
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- GEA Aircooled Systems (Pty.) Ltd. (GAS)  
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**RUSSIA**

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**MIDDLE EAST**

- GEA Batignolles Technologies Thermiques Qatar LLC. (BTQ)  
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[www.btt-nantes.com](http://www.btt-nantes.com)
- GEA Polacel Cooling Towers FZCO**  
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**INDIA**

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[www.gea-energietechnik.com](http://www.gea-energietechnik.com)
- GEA EGI Cooling Systems Trading (Beijing) Co., Ltd. (EGIC)  
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Thermal Engineering

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