ENEXIO Service – Your global and as local partner for wet and dry cooling systems
ENEXIO is a reflection of what we do and what we have accomplished as a pioneer for decades in the fields of industrial, process and power plant cooling, and in water treatment. Our name is, at the same time, a promise to our customers and business partners – ENEXIO stands for Energy. Engineering. Excellence.

With our experience and pioneering spirit in engineering, manufacturing and service, we deliver state of the art solutions for power plants, water and wastewater 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 work with an unceasing commitment to high quality, ecology and cost effective products and services.

More than 80 years in the market and a great deal of success have made us a leading manufacturer and solutions provider worldwide of both wet and dry cooling systems.

Our motto “Energy, Engineering and Excellence” means for you that we are a reliable partner and that your expectations will always be met with outstanding results.
NO ENERGY
WITHOUT ENEXIO
Service delivery
whatever the
conditions
Operating from 4 locations across Europe, Enexio Service has decades of experience in the supply, installation, maintenance and repair of cooling towers. We offer a wide range of services from cleaning, repacking, structural repairs and fan balancing, to complete demolition and renewal, all designed to keep your HVAC or process cooling water system operating efficiently.

Backed by its parent company in Germany, Enexio UK Ltd employs a team of qualified specialists, meaning that everything we do is carried out to the highest of standards. All of our people are fully trained and conversant with operating in the most rigorous of environments, so that you get a professional, proficient, and safe service.

We recognise that no 2 clients have the same needs, so our entire portfolio is specifically tailored to suit each requirement.

Just some of the products and services we can offer include:
- Supply and erection of new cooling towers
- Pipework installations between tower and process
- Structural assessments
- Repairs to metal, wooden or GRP cooling towers
- Cleaning and jetwashing of frames, panels and decking
- Removal and disposal existing pack materials
- Supply and installation of new pack and drift eliminators
- Repairs to sumps
- Installation of new distribution systems
- Fan balancing
- Replacement fan blades
- Spare parts supply

**Exemplary application fields**

- Power plants
- Chemicals and Petrochemicals
- Steel plants
- Process industry
BETTER COMPONENTS BRING HIGHER COOLING PERFORMANCE

Enhanced component development and the use of new technologies increase cooling performance.
A combination of enhanced component development and the use of new technologies results in higher cooling performance, lower power consumption and reduced noise dispersal. ENEXIO Service analyses the equipment, installation and the potential for improvement at the customer’s plant, so that a customised, tailored solution can be found. Payback times can be minimised, particularly if the project is combined with a comprehensive maintenance package.

**Mechanical components**
In the last few years mechanical components offering better cooling performance and more resistance to dirt deposits have become available. More efficient fan motors and the use of speed control to match load conditions results in short payback times and reduced noise emissions.

Whether it is through more efficient motor selections, or even a noise optimised solution, replacement of individual mechanical components by those that are properly matched to each other and the load means that the cooling tower will always meets the most stringent requirements.

**Fans**
To ensure ideal airflows reinforced fiberglass fan blades must have intact surface coatings to protect them against adverse weather conditions. Over the course of time, the coating is damaged by moisture, UV radiation and abrasion on the leading edge.

If the wear is so far advanced that the glass fibres are exposed, the structure of the fan blade can be damaged, which in turn might impair the stability. A repair and a new surface coating avoids a costly new purchase of the complete fan.

**ENEXIO Service offers**
- Evaluation and assessment of the fans
- Removal and installation on site
- Refurbishment in our own specialist workshop
- Vibration analysis and balancing

**Examples of service assignments**

- Installing new gear motors
- Evaluation of the fan status
- Replacement of drift eliminators and cooling fills, for example
- Vibration measurement with state-of-the-art technology
ENEXIO SERVICE GOES BEYOND CONVENTIONAL SERVICE STANDARDS

Using our own manufacturing facilities and a large network of partners, we reach you anywhere in the world.
WE ARE THE INVENTOR OF THE AIR-COOLED CONDENSER

From the very beginning, ENEXIO – as the inventor of the air-cooled condenser (ACC) – has played a leading role in the development of this cooling technology. We are known worldwide for our comprehensive expertise in the area of dry cooling systems for the process and power plant industry and offer all services from a single source.

- Specialised departments for process technology, construction, design and installation
- Our own research and development department
- International project management
- Training of the operating personnel on site
- Achieving projected services safely and reliably

More than just conventional service activities
In addition to the measures relating to system conversion and increase in performance, you can make use of partial or complete plant services. Our experience in plant service evolved primarily in the power plant sector and in the process industry. The development of new plant business with regard to cooling systems in the sectors of biomass or waste incineration has further strengthened our expertise in the special features of different systems.

Our expertise in service

- Error-free welding robots in our own manufacturing facilities
- Patented worldwide: Air-cooled condensers with induced-draft fans
- We accept every challenge: Air condenser on the Hudson River, New York, United States
- And in the air: Unloading of heat exchanger bundles from a Boeing 747
FROM THE PROCUREMENT OF ORIGINAL SPARE PARTS TO COMPREHENSIVE RETROFIT PROJECTS

ENEXIO Service is always the right contact partner when it comes to your dry cooling system
In order to provide you with package solutions, we have in-house departments for all areas – from process technology to design, construction and installation. Our research and development department allows us to improve our products continuously and, as part of engineering, conduct technical tests and feasibility studies. Currently, these services are very much appreciated because, due to them, poor planning is avoided from the outset.

**System conversion and increase in performance**
The crucial element of a retrofit is the replacement of the heat exchanger bundles. Thanks to our global network, we can deliver all desired bundle types to any place on the Earth. For the conversion, you can use your service personnel and have them supported by our experienced construction site managers. Or select the turn-key variant, in which one of our project teams ensures the agreed success.

- Change of the heat exchanger bundles
- Increase the heat exchange surface by cell expansion
- Optimization and replacement of the fan system

**Partial facility service**
The partial facility service is based on worldwide branches, locations and partners. By means of standardised implementation rules, this service offers you the quality expected by the plant manufacturer at local hourly rates.

- Vibration measurements for damage prevention
- Locating leaks
- Cleaning the surfaces of the heat exchangers
- Troubleshooting in the event of abnormal operation

**Complete plant service**
With our complete plant service, we ensure availability with measures that can be custom-tailored to the operation of the complete plant.

- Maintenance contracts for maintaining availability and performance
- Wide range of spare parts with procurement from a single source
- Training of and consultancy for operating personnel

**Examples of service assignments**

- Higher cooling performance by bundle replacement
- Visual checks & Inspections
- Exchange of heat exchanger bundles
- Inspection with Infrared-Cameras
THE ALL-ROUNDER
AMONG THE COOLING TOWERS
ENEXIO Service offers the right heat dissipation for every application
Fan-assisted cooling towers are the all-rounders among the cooling towers. They are compact, powerful and variably adaptable to the respective operating and climatic conditions. They are equipped with forced- or induced-draft fans and are the ideal solution for industrial applications such as in power plants, chemical and petrochemical plants, steel plants, air separation plants, in the automotive industry, in timber and paper factories as well as in air conditioning/refrigeration systems.

By any combination of single cells and group installation, almost every kind of operation can be safeguarded.

ENEXIO Service can provide you with cell cooling towers of every performance level with sprinkled base areas of approx. 10 m² to 370 m² for each individual cell. They can be combined into complex cooling plants of any size.

Modular wet cooling tower series of type MF and MS (counter-flow principle)

- sizes of sprinkled area for each cell
  - approx. 10 m² to 370 m²
- Available as
  - MF (modular fibreglass) – fibreglass-reinforced structure
  - MS (modular steel) – steel structure

Available in various designs

- Wooden cooling tower
- Cooling Tower with fibreglass-reinforced structure
- Cooling tower with steel structure
- Cooling tower with concrete structure
CROSS-BRAND VARIETY OF PARTS
An economical and ecological cooling tower operation requires the use of high-performance fills and efficient drift eliminators
The evaporative cooling tower is still the most economical way of water cooling at industrial and power plant locations. As the pioneer for fills and drift eliminators made of plastics, we help our customers to meet their high demands.

Depending on the required performance, alongside economic criteria, properties such as durability, ease of maintenance, weather resistance and noise emissions are taken into account for the selection of the parts.

With the 2H Solutions & Components of ENEXIO Water Technologies, we have a powerful supplier of plastic components within the ENEXIO Group. For example: cooling tower fills, grid packs and drift eliminators of different materials and performance classes.

We also supply machines for welding and connecting the cooling fill sheets on site.

In order to meet the individual needs of our customers, we can also deliver to you – based on our decades of experience – any fill from long-standing partner companies.

Advantages at a glance
- High level of flexibility due to different sizes
- PP and PVC available
- High efficiency
- Low pressure loss
- Components for cross-flow cooling towers ensure a high cooling capacity
- Components with vertical structure for high degree of fouling

2H Components & Solutions

2H PLASdek® Cross-fluted fills
2H PLASdek® Vertical flow fills for counter-flow cooling towers
2H PLASdek® Drift Eliminator
2H Splash and trickle fills
2H Spray nozzles
WORKING SAFELY
AT THE CUTTING EDGE
At ENEXIO Service we pride ourselves on safe working practices
The ENEXIO Service team is superbly equipped with all the necessary special tools and is able to carry out even highly specialised work on any cooling tower. Performance, sound and vibration data are determined and evaluated by our highly-qualified technical staff so that a tailored solution is perfectly worked out for our customers.

**Inspection**
Our specialists carefully inspect your cooling systems and evaluate the individual components. The resulting report forms the basis of recommendations for maintenance and repair work.

The current status is examined, and the urgency as to needs is assessed. Repairs and modernisations, taking into account safety, operational readiness, efficiency and capacity are included in our service concept. The maintenance work is documented in individual reports, acceptance inspection report as well as other important documents and analyses.

Our inspectors and engineers have many years of experience in the fields of cooling tower construction, repair and upgrade, so their evaluation of cooling towers and their various components will be on the spot.

**Measurement**
With state-of-the-art measuring equipment, we can assess the residual load capacity of structural elements, e.g. wood or concrete, and determine the need for refurbishment.

After the inspection, results are drawn up in a detailed report that – in addition to the failure description and damage assessment – can include repair suggestions and operating information, if desired.

On the basis of the service reports, you gain certainty regarding the scheduling and scope of the refurbishment work.

Our employees are defined by

- Reliability
- Know-how
- Precision
- Trust
GLOBAL PRESENCE
LOCAL FOCUS
Our specialists are always at your side
WE ARE THERE FOR YOU

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