Refrigeration Systems
Products, solutions and services from ENGIE Refrigeration
The right refrigeration for every process: our efficiency for your goals.

Our refrigeration can do so much for you

CHILLERS
QUANTUM | SPECTRUM | AMONUM | PENSUM | MARENUM

HEAT PUMPS
QUANTUM | AMONUM | PENSUM | High temperature heat pump thermeco₂

COOLING TOWERS
Wet-open | Wet-closed | Dual

SOLUTIONS
Cool/cold water systems | GENIUM (refrigeration container) | Refrigeration modules

SERVICES
Modular maintenance | Upgrading | Efficiency checks | Training

The most important things to us are our customers’ goals and the most efficient way of achieving them. We want you to have the best possible cooling and heating solution for your processes. We discover energy-saving potential and promote innovative, sustainable refrigeration technology and heat production.

Our comprehensive services also conserve your personal energy resources, because we enable our customers to concentrate fully on their core business.

The “right refrigeration” is one factor among many and is part of a larger overall context. Therefore, refrigeration should be seen as a whole. For us, this does not just mean keeping an eye on the entire life cycle of a cooling system. It also involves looking at refrigeration holistically. Together with you we plan a complex cooling system just as carefully as the integration of a chiller or a cooling tower into existing processes and installations. Because we know that even if refrigeration is just one factor among many, a lot often depends on having the correct temperature.

ENGIE Refrigeration GmbH in figures (2018)

Active worldwide

137 years of experience in industrial cooling technology

500 dka refrigeration training courses since 2004

3,120 QUANTUM chillers sold

1,701 Cooling towers sold
The right temperature is more than a question of comfort. It is often an absolutely critical prerequisite for the smooth running of industrial operations. In production plants and process environments, even the smallest deviations can cause sensitive malfunctions and expensive downtimes or delays. This is where our know-how really pays off.

As our customer you benefit from our innovative strengths and high quality standards in industrial refrigeration. The strict environmental and hygienic regulations for the food industry or the comprehensive legal constraints for nuclear installations are just two examples of the challenges that we take on every day.

We want your processes to run reliably – which is why we deploy highly-specialised personnel during the planning, design and building phases, and also for customer service and maintenance. Because regardless of how good our machines are, what counts are the people who understand you and your situation.

Industries for which we develop reliable refrigeration solutions

- Pharmaceuticals
- Chemicals
- Plastics processing
- Power stations
- Car manufacturers
- Food and drink industry
- Server rooms and computer centres
- Steel industry
- Building climate control
- Marine industry

Quality made by ENGIE Refrigeration: Cooling that you can rely on.

137 years of refrigeration know-how

- 1878: The first chiller is built for the World Fair in Paris
- 2003: Then known as Aixima Refrigeration, the company receives the German Industry Innovation Award for the QUANTUM
- 2009: Company renamed Cofely Refrigeration GmbH
- 2013: Extension of the re-cooling system product portfolio and sale of the first AMONUM cooling system in a container
- 2014: More powerful than ever – Cofely Refrigeration expands its QUANTUM P series to up to 6 megawatts. Launched in early 2015, QUANTUM P is Cofely Refrigeration’s answer to the growing demand for exceptionally powerful chillers
- 2015: GDF Suez becomes ENGIE: In September the parent company of Cofely is officially renamed in ENGIE S.A.
- 2016: Cofely becomes ENGIE: As a part of the global reorganization of the ENGIE group under the new umbrella brand, Cofely Refrigeration GmbH is renamed to ENGIE Refrigeration GmbH
- 2018: ENGIE Refrigeration strengthens position in the field of heat pumps and acquires CO2 high temperature heat pump activities from the insolvent assets of Hahter-Muschler

Solutions

Machine room within the refrigeration container: ammonia cooling system (right) and buffer tank (rear left)
For people and the environment. Our technology always creates a good climate.

Our technology ensures a comfortable atmosphere

We create a good feeling in
- Office buildings
- Shopping centres
- Hospitals
- Sport complexes
- Swimming pools
- Convention halls
- Trade fairs
- Residential buildings
- Ships

The extent to which people feel at home in an environment or are able to achieve their potential at work depends significantly on the climate in the building. ENGIE Refrigeration ensures a comfortable climate wherever people are gathered.

However, these days a good climate is no longer the concern of the individual. It is our responsibility as a company to make our technology increasingly efficient, resource-conserving and environmentally friendly. For this reason, ENGIE Refrigeration develops systems that do their job reliably and safely while using as little refrigerant as possible. Another aspect of our commitment to the environment is our use of sustainable, natural refrigerants and our efficient, oil-free heat pumps for buildings and industry.
We love technology, and our engineers always find a solution – no matter how specialised the task. Even in the case of extreme demands or new applications in refrigeration technology, our specialists make your wishes as a customer come true. For example, we developed special solutions for naval vessels that are precisely tailored to the minimal space availability and the extreme demands at sea.

But the comprehensive technical know-how of our employees can also be relied on in the case of individual solutions for everyday areas of application. On this basis, when planning and designing complex cooling systems we can cater very flexibly to your requirements and optimally integrate our solutions into existing processes and installations.

Our passion for technology means that we are never just building a machine. We are developing systems that serve a purpose and fulfill your task reliably and efficiently. Our promise: We will also find the ideal solution to your challenge.
Carry on with your work: our services keep cooling without a break.

Malfunctions in technical cooling systems often mean standstills for entire processes or irreparable damage. Here you can rely on us – every day. We ensure that all systems run smoothly and as efficiently as possible. And if this is not the case, we intervene immediately.

Always different, always right: modular maintenance

A refrigeration system proves itself in its day-to-day operation. To provide our customers with real added value and a service tailored precisely to their needs, we are the first company to develop modular maintenance for chillers.

From a spectrum of 26 individual maintenance modules, we have made up partner packages for you in order to support your cooling system efficiently and individually while keeping the costs low for you.

The Refrigeration Academy: further training for more efficiency

The more complex the technology, the more important the expertise of the people that operate our cooling technology. This is the only way to ensure the durability of the components and the quick resolution of smaller problems.

With our comprehensive training programme at the Refrigeration Academy (dka) we want to enable you and your employees to use the technology as efficiently as possible, identify irregularities and introduce the correct countermeasures.

Experienced trainers teaching small groups provide well-founded, practical knowledge from all areas of cooling generation and system operation – from the basics to specific details. And because of our practical experience, we can pass on this knowledge not only theoretically, but very directly on actual systems and machines.

Problems with cooling technology do not stick to office hours. Which is why our service team is there for you 24 hours a day.

Our distribution centre and the local stocks in the service offices guarantee that you are supplied quickly with original spare parts of all the usual brands – with short delivery routes and extremely fast response times.

We can do a lot for you:

- 24/7 troubleshooting
- Monitoring
- Remote maintenance
- Modular maintenance
- Upgrading services
- Efficiency check
- Training
- Repairs
- Consulting and planning
ENGIE Refrigeration supplies the right cooling for every process: from efficient chillers, environmentally friendly heat pumps and modular re-cooling systems to turnkey solutions such as refrigeration containers or modules. Efficiency, sustainability, cost effectiveness and first-class expertise in technical solutions are hallmarks of every ENGIE Refrigeration project. Our individualised advice and comprehensive services are centred around our customers and their requirements. As a member of the worldwide ENGIE Group, we have a global network of specialists at our disposal and can realise our refrigeration solutions both at home and abroad.

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