



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.



Water-cooled QUANTUM G with sustainable refrigerant R-1234ze

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

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



Machine room within the refrigeration container: ammonia cooling system (right) and buffer tank (rear left)

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 regu-

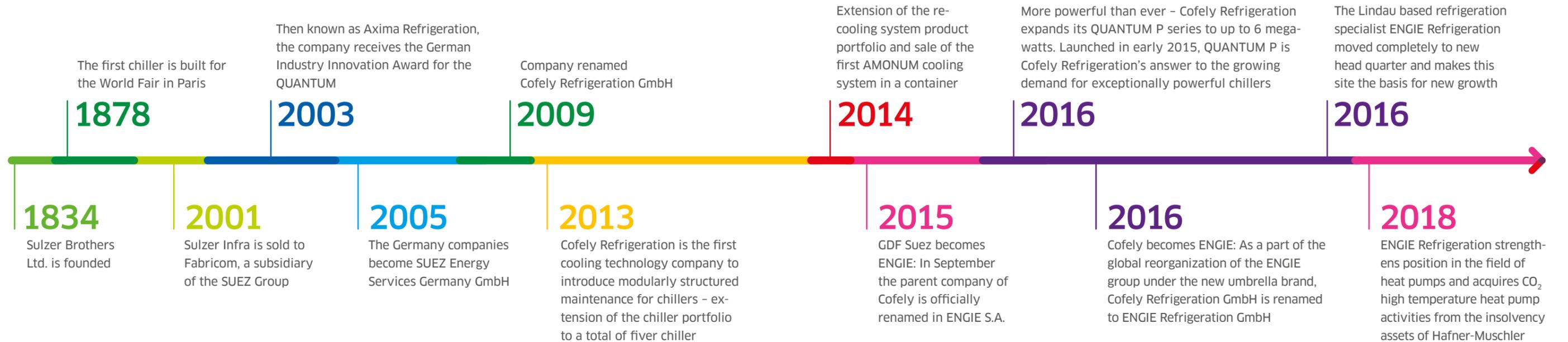
lations for the food industry or the comprehensive legal constraints for nuclear installations are just two examples of the challenges that we take on every day.

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

137 years of refrigeration know-how



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.



Water-cooled QUANTUM chiller with cooling output of several megawatts

For us, a problem is an opportunity for new ideas:
Technical know-how for individual solutions.

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 fulfil your task reliably and efficiently. Our promise: We will also find the ideal solution to your challenge.



Refrigeration container:
when all components mesh perfectly, the result is a functioning circuit

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.

Close to you around the clock

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.

ENGIE Refrigeration GmbH

Josephine-Hirner-Strasse 1&3

D-88131 Lindau

T +49 8382 706-1

F +49 8382 706-410

refrigeration@de.engie.com

engie-refrigeration.de

Sales International

sales.refrigeration@de.engie.com

Service International

service.international@de.engie.com

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Optimal use of energies.