



INNOVATIVE
EFFICIENT
FLEXIBLE



 **thermofin**[®]
heat exchangers · Germany



REICHENBACH

Tradition with future

For decades, the Vogtland is known as center of refrigeration and cooling technology beyond the borders of Saxony. The manufacture of heat exchangers has a long tradition in the region. We have picked up this idea and have expand to an internationally successful company.

Chronicle

2002	foundation of thermofin GmbH (head quarter Heinsdorfergrund)
2007	development of a new market segment: energy and power plant cooling
2008	foundation of OOO thermofin (production plant Russia)
2008	foundation of thermofin Sudamérica S.A. (production plant Argentina)
2010	first ISO 9001 certification
2011	expansion of the head quarter in Heinsdorfergrund
2016	implementation of the company-owned test stand
2018	foundation of thermofin Heat Exchanger (Pinghu) Co., Ltd. (production plant China)



“The success of the company is based on the motivation of my employees. The diversity of our team ensures a good mixture. We rely on long experiences of established colleagues and the youngsters bring new and visionary ideas to the company.”

BERND LÖFFLER GENERAL MANAGER thermofin GMBH



2002

FOUNDATION OF
thermofin®



▼ HISTORICAL · VISIONARY

Your strong partner

The satisfaction of our customers, as family-owned company, is of our vital importance. Long-term business relations are the basis of our company success and strengthen the worldwide awareness of the thermofin® brand.

A review

After company foundation in 2002, the first heat exchangers left the factory in Heinsdorfergrund already one year later. Thanks to the long experience and the emphatic support by Willy Löffler, thermofin® strongly established in the branch of refrigeration technology on the German and international market.

With the extension of the product portfolio by energy and power plant cooling in year 2007, we tapped into a new market segment, which significantly contributes to our present success.

Already in 2010/2011, the continuous sales growth required the extension of our plant by another production hall almost twice as large. The expansion enabled the integration of further important production steps such as the powder coating. With the construction of a new logistics hall, we can improve the manufacture process and provide numerous raw material for the production process on time.

Our vision

Flexibility is our strength. Our innovative products and a comprehensive project support make us to a reliable partner in refrigeration and cooling technology. Our customers profits of our knowledge and the experience gained of numerous projects realized all over the world.

From small commercial applications up to comprehensive large industrial projects, it is always important for us to offer the best solution for your applications.

Besides well-engineered standard lines, our service range also comprises the thermodynamic and constructive engineering as well as the manufacture of heat exchangers in customized special designs.



MANUAL • TECHNOLOGICAL

Highest quality Made in Germany

It is our intention to manufacture premium products made of high-quality materials.

Quality as basis

For our customers, high quality means a reliable function of the installed systems. For us, quality is the basic factor for our global success. Our quality policy has the prime objective to preserve the confidence and the satisfaction of our customers.

The quality management system of thermofin GmbH is certified according to the standards of *DIN EN ISO 9001:2015* and is integrated into all company processes. With continuous and comprehensive investments in our machinery and the use of the latest manufacturing technology, we can ensure the reliability of our products at any time.

Each production step is accompanied by quality-ensuring tests. The raw materials and components used in the products comply with the highest specifications. Our promise of quality *Made in Germany* is firmly established in every step of product development.

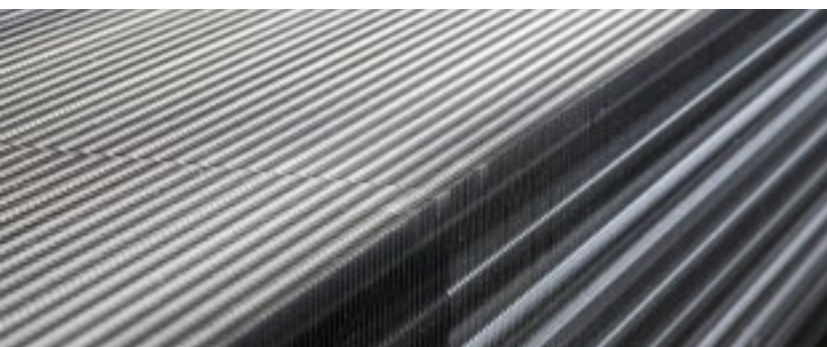
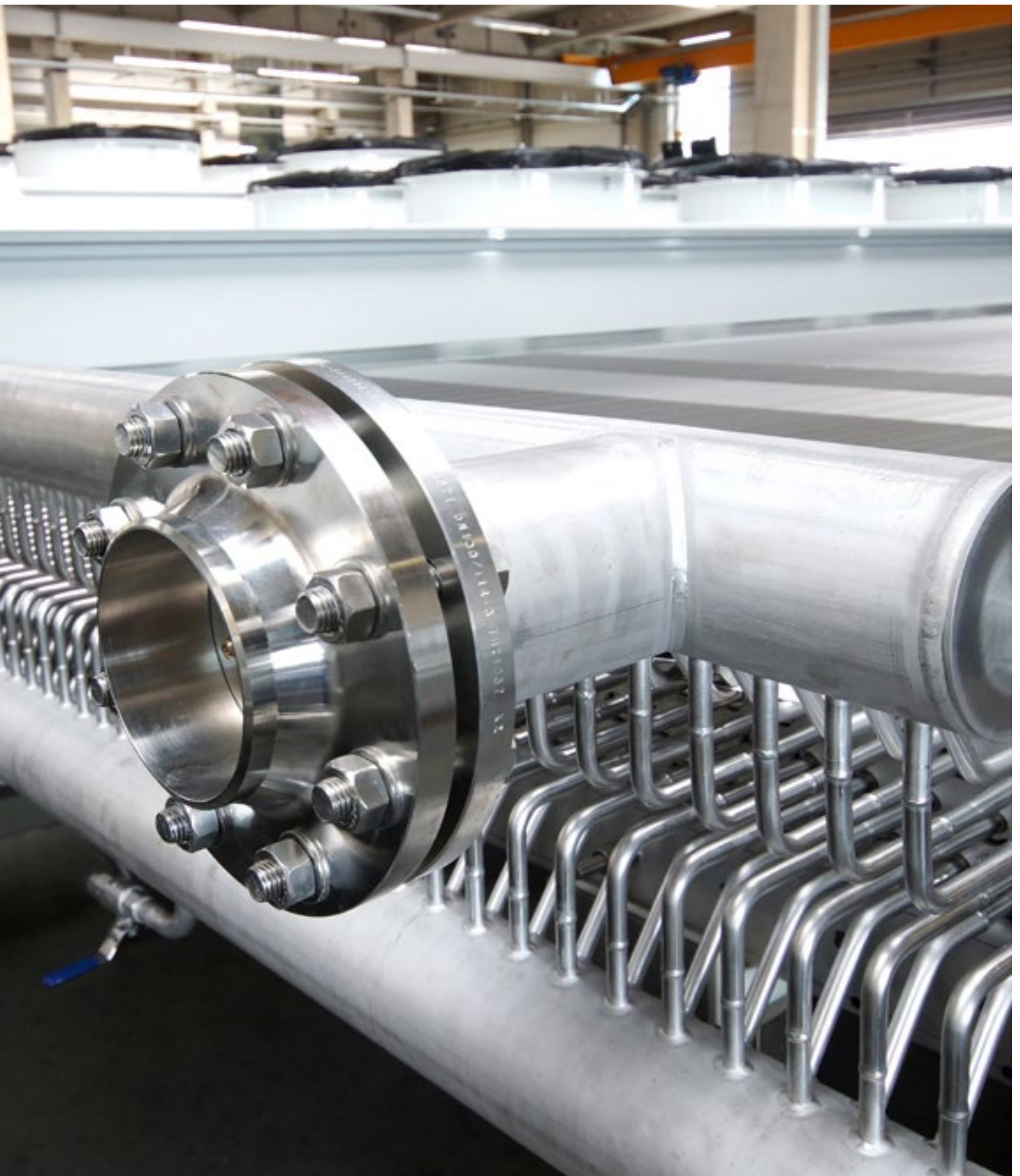
Comprehensive service range

If desired, we can carry out factory acceptance tests in the presence of an independent certification company. Thereby, we offer our customers the additional security of having an external validation that all legal provisions and contractual agreements are being met.

On request, we can also effect measurements and test runs in order to prove the performance of our units and the compliance with critical limit values.

We can also complement the order-related documentation with usage lists, non-destructive examinations as well as strength calculations. On demand, we additionally provide calculations according to other international regulations and standards.





CERTIFIED QUALITY



450 EMPLOYEES IN GERMANY



▼ PERSONAL · COOPERATIVE

Motivated employees – the key to success

The competence and the motivation of our employees contribute significantly to the company's success. As regional and family-owned company, we are one of the largest employers in Vogtland. Since we are represented internationally, we count on skilled workers of the region but we also focus on a multicultural diversity. We stand for tolerance, cosmopolitanism and equality.

Modern working atmosphere

A modern working environment is the basis for innovation and progress. For this reason, we make sure that our workplaces are always up-to-date and are equipped economically.

All from a single source

From order acceptance, to processing, the design and the manufacture until shipping – the entire production chain is based at one location. This ensures a wide manufacture range. Short distances and direct consultations facilitate an efficient way of working.

New challenges need new solutions. It requires the ideas of many minds. Our staff daily work together on the optimal solution for our

customers. Flexible and project-related teamwork as well as flat hierarchies are the basis of our human resources policy.

Intercultural competence

We also address our engagement in human resources development to foreign specialists and workers. Humans of different origins work together at thermofin® for many years.

We take the immigration as a chance to develop our company and the region. We want to use new cultural influences in order to tap into new markets. In cooperation with regional partners, we campaign for the access of handicapped people to the job market.



EXPERIENCED • MODERN

Education in responsible hands

We give priority to the successful education of your people and we want to give them our best support to prepare their professional life. Because of this, it is an important part of our sustainable company policy. We offer a future-oriented education, dual studies and optimal opportunities for development and careers. Each employee is a valuable part of thermofin's® future.

Optimally prepared

Trainings in the different departments of our company give pupils, students and other interested persons subjected to professional training the chance to answer many questions. They serve as best possible start of an education, studies or the professional life at thermofin®.

Impression of practice

Our apprentices and our students discover the company as a whole and get a comprehensive insight into the processes of the company. The training representatives of the different departments ensure a competent support during the varied practice phases in the company.

Future prospects

Additionally to the normal education, thermofin® offers numerous possibilities. Specialized courses and further education makes our trainees to an essential part of our team. With it, they can successfully build their future.

Decorated practice partner

Germany's Federal Employment Agency and the Chamber of Industry and Commerce awarded us for our outstanding commitment in vocational training. We are also a recognized partner of Saxony's university of cooperative education in Glauchau and Plauen as well as the European Academy of Refrigeration and Air Conditioning in Maintal.





UNIVERSITY OF COOPERATIVE EDUCATION

BA

**ANERKANNTER
PRAXISPARTNER**

DUAL STUDIEREN AN DER BERUFSAKADEMIE SACHSEN





CERTIFIED
SAFETY



▼ CONVENTIONAL • INDIVIDUAL

Your ideas are our challenge

Since your success is no coincidence, we assist you as competent partner during the entire project phase.

Standard series

Customized and TÜV proved series in numerous variants are optimally adapted to the individual market areas.

Additionally to the matured standard series, our customers benefit from our particular experience in the range of the customer-specific dimensioning, design and manufacture.

Diversity and individuality

Our evaporators and air coolers are used in various commercial and industrial applications in the sectors of food processing, storage and logistics. We offer both high-efficient series with staggered tube arrangement (“commercial line”) and series with an in-line tube arrangement and a large surface for more sensitive applications (“industrial line”).

Our condenser and dry cooler series match a wide performance range. They are used in small commercial applications in super markets up to industrial large projects in the air conditioning of buildings and the dry cooling of energy systems.

Numerous options and accessories ensure full flexibility and an optimum adaption to the requirements on site.

Efficient power packs

Outstanding performance requirements together with limited installation space are the best conditions for the use of our hybrid dry coolers and condensers who benefit from the interaction between wet and dry cooling.

With the extension of our product range by high quality evaporative systems made of stainless steel, we cover another market segment since 2016.



► **CONCEPTIONAL · DETAILED**

Profit from our experience

During the project engineering of your systems, you have to face with many challenges. You can trust in our long-term experience on the market. We accompany you from conceptual design until installation on site and give support with our technical expertise after commissioning.

Competence in one hand

Our finned heat exchangers are important parts of a complete system. Considering their design, efficiency and sound emission, they are an integral factor for the operation of a cooling or refrigeration system. This is the reason why we pay special attention on a detailed analysis of the conditions of installation before each dimensioning.

If desired, we can individually complement our scope of services. From sound, vibration and performance measurements executed on our own test stand to wind and snow load calculations up to detailed calculations on earthquake resistance – our customers can rely on comprehensive project packages from one hand. Steel structures adapted to the individual project requirements complete our portfolio.

Cross-sectoral experience

Thanks to our cross-sectoral project experience, we can draw on our technical knowledge and the competence in the customer-specific, order-related manufacture.

This experience, connected with continuous innovative developments ensure our customers a smooth order processing, a perfect product quality and a reliable system operation in the sectors of

-
- industrial refrigeration

 - commercial refrigeration

 - industrial cooling

 - process cooling





Always an idea ahead

Our engineers continuously work on the further development and improvement of our products. They study new product demands, ideas and check them for feasibility and marketability. In cooperation with the sales and the production department, we can implement customized specifications in an efficient and solution-oriented way.

Research and development

On our test stand, we measure and test air-cooled heat exchanger coils with different refrigerants, cooling and heat transfer mediums inside of a specially designed air duct. We can simulate and examine a wide range of boundary conditions. Special acquisition modules for precision measurements record the results. By means of the controllable boundary conditions as well as the recording of mass flows, temperatures, pressure drops and condensate rates, the test items can be examined for operating conditions and extreme influences that might occur in practice.

We focus our research and development activities on the optimization of our heat exchangers. The basis are different tests for the determination of performance, for the control of refrigeration plants and on specified material combinations. Furthermore, we validate and optimize the calculation accuracy of our thermodynamic calculation software.

Prospective and sustainable

Environmental aspects have a firm place in our company's philosophy. This fact is also reflected in our products so that the natural refrigerants and their use in our branch are a main objective of our research activities. Therefore, we expanded our test stand for NH3 in the year 2016.

Thanks to the modular design, the system components are replaceable and the test stand is particularly versatile. We are very proud of the measurement accuracy of the system. We measure the performances of our heat exchangers following the provisions of DIN EN 1216 (test procedure for establishing the performance of heat exchangers) and are always considerably below the permitted tolerances.

By recovering the waste heat of our test stand, the energy losses are minimized. The residual heat is used for the supply of the building and the production machines of the plant. Our photovoltaic system provides a main part of the required energy.

"Who stops getting better, has stopped being good."





NATURAL REFRIGERANTS
CO₂, NH₃, PROPANE



GERMANY



PRODUCTION SITES WORLDWIDE
AND 9 SALES OFFICES



ARGENTINA

LOCAL • GLOBAL

Home around the globe

As worldwide expanding company, it is important for us to locally support our customers in a qualified manner. A well-structured sales network and numerous trading partners ensure a direct communication. Furthermore, we serve the local markets through plants on different continents. Our customers profit from costs savings and the reduction of delivery times.

Production sites and joint ventures

Heinsdorfergrund • Germany (2002)

From our head quarter, we supply our customers of refrigeration and cooling technology around the world. In order to ensure equally high standards, we manage and monitor the development and production processes of all plants from here.

Rafaela, Santa Fe • Argentina (2008)

Being located in the heard of Argentina, our Joint Venture in Rafaela gives us the best conditions to directly serve and supply the South American market. We primarily manufacture here industrial products for the local food industry.

Mitishi • Russia (2008)

This production site is specialized on the assembly of heat exchangers for our customers in Russia. After delivery of individual components from the German head quarter and components from Russia, the units are completed in Mitishi.

Pinghu • China (2018)

The newly established production plant is located in the new technology park of Pinghu, 100 km southwest of Shanghai. High quality manufacturing machines and monitoring ensure the quality standard of our products. The site provides the optimal basis to serve the Asian marked from China.





PRODUCTION SITES

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