



Innovation is our standard.

# ait-deutschland GmbH

WELCOME TO THE WORLD OF INNOVATIVE ENERGY SOLUTIONS.



## Location Kasendorf

Workforce: approx. 450

Company premises: 24,600 sqm

Brands: alpha innotec | NOVELAN | KKT chillers





# PHILOSOPHY

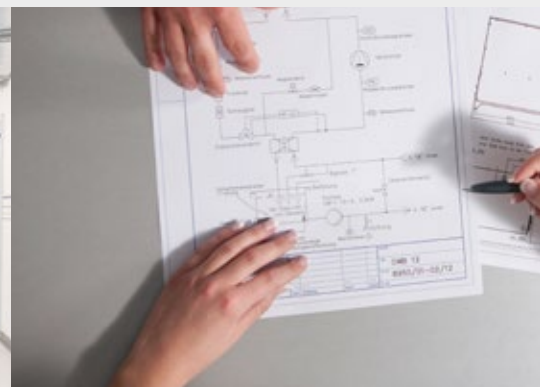
**OUR PATH. TOGETHER WITH YOU.**



**The brand KKT chillers is an important pillar of ait-deutschland GmbH.**

KKT chillers combines decades of experience and expertise in thermodynamic processes with the requirements of its customers to design energy-efficient chiller and heat pump solutions for a wide variety of applications. In this context, a high level of innovation and a customer-driven approach play key roles. The resulting product portfolio ranges from series-oriented devices to customized products.

KKT chillers has been a full-fledged global player in the chiller market, thanks to the two sites in Germany and the US as well as the global service network – plus the priceless benefit of technological development and production “made in Germany”.



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our standard.“**



# HISTORY

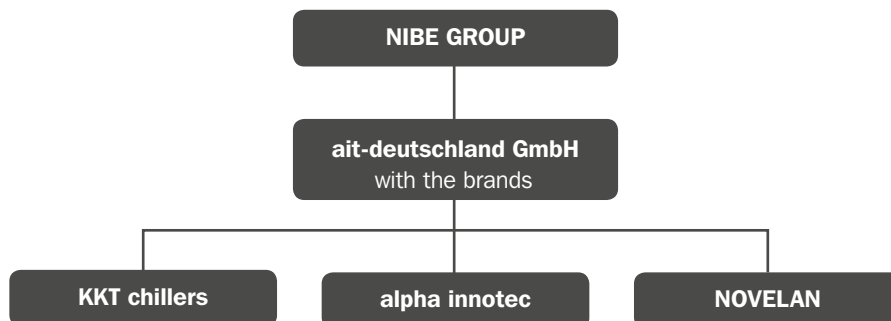
**KKT chillers has been offering its customers appealing and highly specialized refrigeration technology solutions for more than 30 years.**



## Corporate development

Since 2012, KKT chillers has contributed its experience and core competences to the Kasendorf location and developed joint projects for energy-efficient resource utilization within ait-deutschland GmbH by means of the brands alpha innotec and NOVELAN.

As part of the Swedish NIBE-Group, ait-deutschland GmbH with its KKT chillers brand has become one of the leading manufacturers of heating and cooling systems.



## 1978

KKT Kraus is founded in Lauf/Germany

## 1993

KKT Kraus Industriekühlung  
is created

## 2005

The Swiss Schulthess Group takes  
over all shares of KKT Kraus

## 2007

KKT Kraus USA Corp., a subsidiary  
in Chicago, is founded

## 2010

Headquarters are relocated from  
Lauf to Kasendorf

## 2011

The company becomes a part of the  
Swedish NIBE-Group

## 2012

The company is incorporated into  
Alpha-InnoTec GmbH and changes  
its name to KKT chillers

## 2013

KKT chillers becomes a brand of  
ait-deutschland GmbH  
A production and logistics hall is built

## 2014

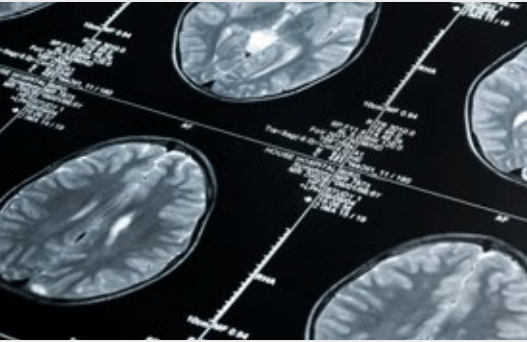
KKT chillers wins the Red Dot  
Design Award 2014 with the cBoxX

## 2015

Official opening of the ait Tech-  
nology Center



# YOU HAVE “HOT” APPLICATIONS? KKT CHILLERS HAS “COOL” SOLUTIONS.



## Healthcare

Cooling of imaging diagnostic apparatus such as MRI's, CT's, X-Ray's and its gradient coils and Helium compressors.

## Food & Packaging

Cooling of blow molding machines, its forming tools for pre-forms and blow-forms as well as its actuators, film lines, cutting stations for blister packaging and film converting machines.

## Laser Technology

Cooling of resonators, optics and laser heads.

## Filtration

Cooling of water treatment systems and filter production processes.

## Machine Tools

Cooling of actuators, spindles, generators, tools, power modules, drive shafts, mills and hydraulics.

## Surface Technology

Cooling of flame spray systems, coating machines as well as the double jacket of hardening ovens and its diffusion pumps.







[kkt-chillers.com/en/applications](http://kkt-chillers.com/en/applications)



## **THERMODYNAMIXX**

Cooling of high power motors in the mining industry, analysis – and measurement equipment. Industrial processes with a demand of heating and cooling at once.



## **Plastics Industry**

Cooling of rollers, granulation lines, tools and hydraulics of injection molding machines.



## **Welding Machines**

Cooling of welding tools, welding heads as well as the work pieces and the weld seams itself.

## **Electronic Industry**

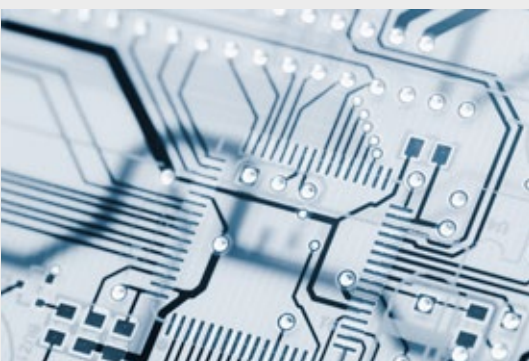
Cooling of generators, frequency transformer, high power CPU's and measurement.

## **Chemical & Pharma**

Cooling of production processes for pharmaceutical articles as well as laboratory equipment.

## **Printing Industry**

Cooling of color decks, UV lamps, spindles and actuators.





**reddot award 2014**  
winner



Has the chiller set you on „fire“?  
Just scan and learn more about  
our Compact-Line.



## Innovation is our standard.

In the performance range from 1 to 200kW, KKT chillers offers a sophisticated model series concept, which can satisfy most customer requirements due to its wide range of options. Based on decades of experience in developing cooling systems for a variety of different applications, KKT chillers knows what is important in thermal engineering.

### Flexibility.

To ensure that you get exactly what you need, the products in the KKT chillers model portfolio come with a great variety of options and special equipment. The configuration options cover various applications to select the required equipment package specifically for the respective customer demands.

### Reliability.

KKT chillers focuses on the highest quality. Thanks to the co-operation with the most renowned component manufacturers and a consistent quality management, KKT chillers guarantees maximum product quality "made in Germany". With the products from KKT chillers, you can always keep a cool head.

### Energy efficiency.

As industrial processes frequently show load variations, the thermal load is usually not constant either. Consequently, today's chillers are often bigger than actually necessary for a major share of load profiles. Up to now, this has often entailed relatively high emissions and excessive energy costs.

# CHILLER MODEL RANGES



**INNOVATIVE. EFFICIENT. CUSTOMER-FOCUSED.**

KKT chillers applies RPM-regulated components and a control system developed in-house to automatically adapt the cooling capacity to the application's current load profile. This means that the system generates only as much capacity as is needed.

## **Innovation.**

RPM-regulated compressors, micro-channel technology, EC Blue Owllet ventilators, electronic injection valves, high-efficiency cooling agents and digital data management – thanks to the combination of these state-of-the-art components as well as innovative ideas, the use of KKT chillers products gives you a competitive edge.

## **Cost effectiveness.**

Nobody likes to pay more than absolutely necessary. Thanks to their great energy efficiency, the chillers from KKT chillers allow you to reduce the operating costs to the absolute minimum. Moreover, maintenance, service and logistics costs are significantly reduced due to the low filling levels.

See for yourself and discover the benefits of the chiller model ranges from KKT chillers!



Discover the KKT chillers' vBoxX with the innovative Augmented Reality Technology.  
Download the KKT chillers' app for free, scan the vBoxX and prepare to be amazed.



# OEM SOLUTIONS

**A GREAT PARTNER, RIGHT FROM THE START.**



## Developed for you.

Besides the chiller model series, KKT chillers also develops customer-specific systems solutions for various industries in cooperation with its OEM partners. These solutions can also be integrated into the overall system at a later point.

When it comes to highly complex and long-term development projects, it makes great sense to consider the issue of process and component cooling early on.

To this end, KKT chillers offers its customers a 'Resident Engineering' services: From the very beginning, the engineers at KKT chillers contribute their cooling expertise to your development process. This often helps to achieve substantial savings for the complete facility.

Invite KKT chillers into the earliest planning stages of your projects!









MAGMA

ARCTIC



# THERMODYNAMIXX



**THE ULTIMATE CONCEPT IN COOLING AND HEATING.**



## Thermal energy solutions.

The refrigeration process always generates heat and vice versa. This physical effect is the basis of the chiller technology.

KKT chillers takes advantage of this correlation between cold and heat and has developed the installation types MAGMA and ARCTIC, heating and cooling solutions for industrial and commercial applications in a performance range of between 200 and 1.000 kW. They allow for a reduction in operating costs of up to 50 percent.

The portfolio also includes energy saving systems, heat recovery, passive heat exchange stations and water management systems with the respective service offering. Discover the perfect synergy in THERMODYNAMIXX, the success formula in cooling and heating technology – “made in Kasendorf.”



# SUSTAINABILITY

**SYSTEMATIC APPLICATION OF ENERGY-EFFICIENT COOLING.**





## **For the good of the environment.**

As a technology-oriented brand of ait-deutschland GmbH, KKT chillers is concerned with sustainability issues, starting with the production of all its products. For instance, KKT chillers applies specifically developed energy sources based on heat pump technology for the heating and cooling processes in its production and administration buildings. Moreover, servers at the site in Kasendorf are cooled by a KKT chillers free-cooling system.

When it comes to selecting materials, KKT chillers prefers recyclable materials. In addition, KKT chillers only accepts components with the highest efficiency level. Last but not least, KKT chillers makes a contribution to responsible resource management by applying the wealth of expertise KKT chillers has acquired over the past decades in developing refrigeration concepts.

Thanks to this consistent sustainability approach, KKT chillers is able to create energy-efficient chiller and heat pump solutions for your application.



# AFTER SALES SERVICE

## EXPERT SERVICE TECHNICIANS.



### Service - around the clock.

System breakdowns cannot be foreseen. But thanks to KKT chillers' many years of experience and well-structured service organization, KKT chillers can guarantee fast response and repair.

Should you require help with one of your chillers, you can reach KKT chillers 365 days a year, 7 days a week, 24 hours a day.



### Service - around the world.

To ensure quick and reliable maintenance and repair services, KKT chillers runs a close-knit global service network, which is continuously optimized and expanded in keeping with the customer locations and requirements.

For frequently updated contact information of the individual service locations, please see

[www.kkt-chillers.com/en/service/service-locations/](http://www.kkt-chillers.com/en/service/service-locations/)



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