

# CUSTOMISED COOLING SOLUTIONS UP TO 2 KW.

VKD & VKS SERIES

# The dynamically (VKD series) and statically (VKS series) ventilated chillers.

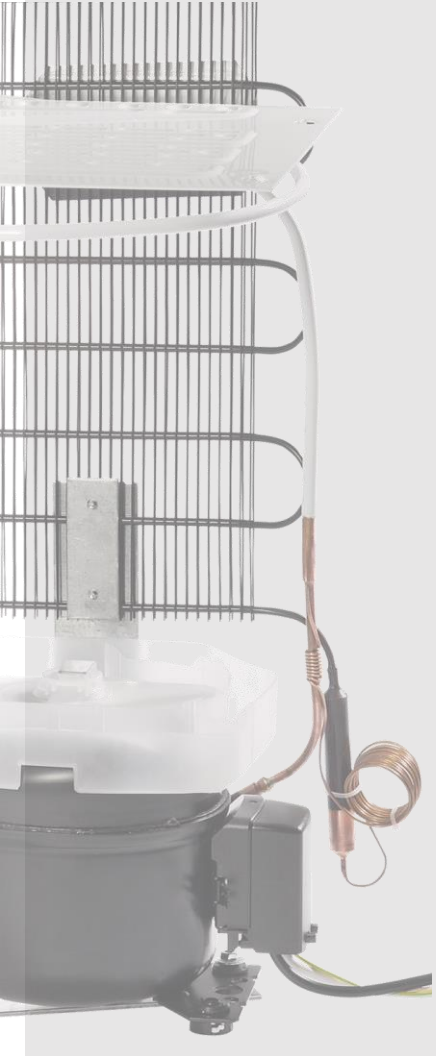
Stable temperatures are a requirement for functioning commercial cooling systems to ensure the highest quality standards.

Riedel Kooling systems provide permanent and constant cooling for applications:

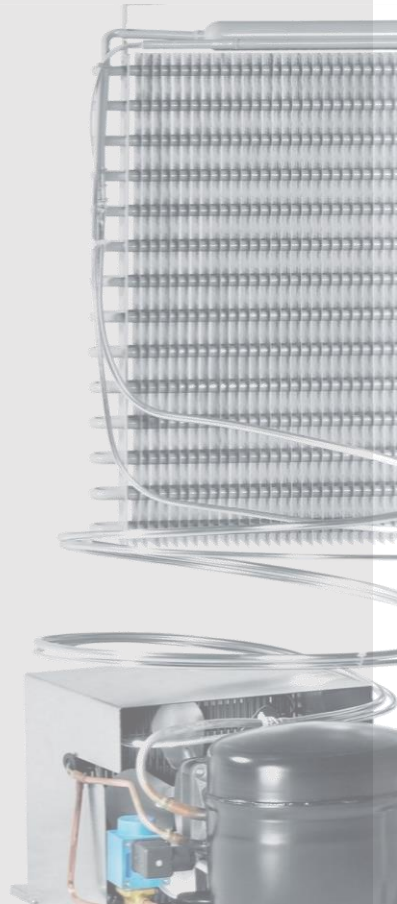
- Medical storage
- Mortuary refrigeration
- Laboratory and analytics
- Gastronomy
- Process cooling



# The advantages at a glance.



- For optimal and constant cooling of the application up to 2 kW.
- Wide range of applications in medicine, laboratories, gastronomy and diverse cooling processes in various industries.
- Use even at high ambient temperatures.
- Precise cooling performance at a cooling temperature down to minus 40 °C.
- 100 % reliable due to the use of high-quality components.
- Individually configurable to the requirements of the product and the application.
- High efficiency through the use of natural refrigerants and perfectly adapted components.
- Versions with plate or fin vaporiser and other customized configurations.
- Extremely economical and low maintenance.



# Natural refrigerants - energy-efficient and future-proof.

## Natural refrigerants

Riedel Kooling relies on natural refrigerants for its refrigeration systems - and there are good reasons for this. They have no negative impact on the ozone layer and are ecologically safe.

## Active environmental protection.

With the use of natural refrigerants and cooling systems designed to meet the exact requirements, Riedel Kooling chillers contribute to active and sustainable environmental protection.

## Future-proof investment.

The use of natural refrigerants requires special care. This is where the safety concept developed especially for Riedel Kooling comes in. In addition, the refrigeration system was designed with compact and system-optimized components. This makes the system future-proof and durable.



**NATURAL  
REFRIGERANT**



# Customized solutions. Individually configured.



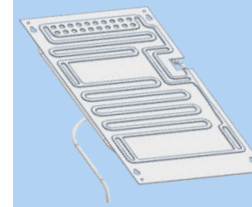
**Fix-speed  
compressor.**



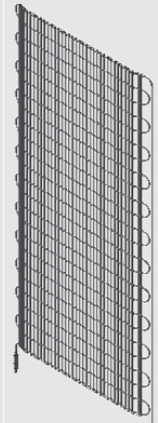
**Speed controlled  
compressor.**  
Individual  
connections for  
the cooling  
system.



**Condenser  
with fan.**

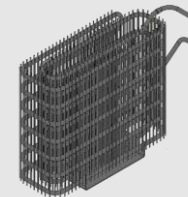


**Rollband-  
vaporiser**

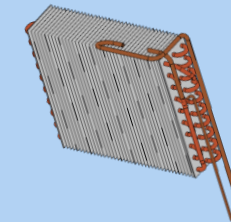


**Wire tube  
condenser,  
bent.**

**For a dynamic  
ventilation.**



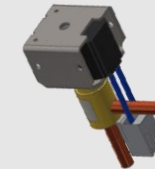
**Fin-  
vaporiser**



**Wire tube  
condenser.**

**For a static  
aeration.**

**Optional  
equipment:**



**e.g. magnetic  
valve for hot  
gas defrosting  
mode or  
pressure switch**



# From planning to implementation.

We support you from the beginning in planning and realization of projects. Gladly, by involving us at an early stage – and thus defining the specifications together.

All relevant contact persons (sales, engineering and product development) are available in every project phase and throughout the entire product development process.



# Reliable cooling for medicine and laboratory.

- Refrigerator and freezer for laboratory
- Analytical systems for serum tests and blood grouping
- Refrigerators for the storage of blood and medicines
- Refrigerators and freezers (also  $\Xi_x$ -protected interior)
- Community refrigerators
- Mortuary refrigeration





# Reliable cooling for medicine and laboratory.



## Blood storage refrigerators / Blood plasma freezers.

The storage of blood reserves and blood plasma requires the highest reliability and temperature accuracy. The storage temperature of blood products according to DIN regulations is exactly + 4 °C, plasma is stored in the range of - 32 °C to - 40 °C. The decisive factor is the constant temperature level throughout the refrigerator.

The high-performance refrigerators reduce the physically caused temperature gradient through effective recirculating air cooling. Thermal & time monitoring guarantees the storage temperature of the goods.



## Climate cabinets.

Test chambers for stability tests require high homogeneity in temperature and humidity. For this purpose, thermal energy is transferred to the interior over a large area via an air jacket on four sides.

The integrated coolers keep the cabinet temperature constant with an accuracy of +/- 0.5 K. The units have automatic defrosting via hot gas and are low maintenance.

## Medicine refrigerators.

Particularly reliable and homogeneous temperature control is also required for cooling medications. The specially developed chillers meet these requirements and are particularly energy efficient. This reduces operating costs for the operator.



# Customized cooling solutions for environmental technology.



The low-maintenance and long-life cooling systems are the heart of the analyzers of well-known manufacturers for:

- Water and wastewater analysis
- Water sampler
- Precipitation analysis systems



# Customized cooling technology for water treatment.



## Water analysis / Sampler.

For measurement and sampling technology, e.g., for water analysis, we offer special chillers that keep the water samples at a constant + 4 °C.

The frequent outdoor installation of the devices for automatic water sampling with changing ambient temperatures and contamination place high demands on the refrigerating machine.

## Reliable control through reliable cooling.

When taking water samples, close attention must be paid to compliance with limit values and a constant temperature level must be maintained during storage in the station, whether in freezing or midsummer temperatures.





# Individual cooling solutions for modern gastronomy.



The reliable cooling components are individually adapted and are used for:

- Transport trolley for communal catering
- Small refrigerated compartments / showcases for breakfast and cakes
- Wine refrigerators
- Large refrigerators





# Precise cooling solutions for modern gastronomy.

## Small refrigerated compartments and food showcases.

Breakfast, salad, cake, sausage, cheese and kitchen showcases in guest rooms and at buffets require powerful, compact and extremely quiet refrigeration machines that fit into small showcases. Loaded foodstuffs are kept at a constant temperature level maintained



## Beverage storage cabinets.

Modern beverage storage cabinets are high-tech devices in the catering, hotel and private sectors. Depending on the requirements for long-term storage or ready-to-drink stocking, they contain climate zones with constant or different temperatures.



# We are Riedel Kooling.

Whether you need machine, industrial, medical or process cooling or precise cooling solutions for commercial applications – with Riedel Kooling you have the right partner for perfectly matched and individual cooling solutions.

## Individual and reliable.

From the individual item to small or large series production. The result is convincing: The consistent further development of proven technology, strict quality guidelines, first-class advice and reliable service today make a decisive contribution to the many success stories of our customers.

# 24/7

**global support.**  
Our competent service team is at your side.

## 3 locations

Kulmbach (Germany)  
Kalamazoo (USA)  
Shenyang (China)

# 50

**years of cooling expertise**

# 1.000

**employees worldwide.**  
We are part of the internationally operating Glen Dimplex Group and a brand of Glen Dimplex Precision Cooling division.





# The right cooling solution for every requirement.

## Dynamic cooling systems.



## Individual, precise, economical.

- All chillers are adapted to customer-specific installation dimensions.
- All cooling systems are individually configurable.
- Cooling capacity precisely adapted to the application up to 2 kW and cooling temperatures down to - 40 °C.
- Use of natural or synthetic refrigerants.
- Compressor 50/60 Hz with 230 V or 24 V protective extra-low voltage; speed-controlled on request.
- Use of high-quality and robust components.
- Insensitive to aggressive media and environmental influences.

## Certified quality. Made in Germany

Chiller from Riedel Kooling are known for their durability and reliability. Highest quality standards characterize the entire production process. As one of the world's technically leading OEM manufacturers, we rely on highly efficient technologies and state-of-the-art manufacturing processes. We rely on high-quality components from renowned manufacturers.



## Static cooling systems





# The challenges may seem great. What is your challenge?

## We master every challenge with you.

High-precision cooling systems from Riedel Kooling with maximum reliability bring stability and efficiency to your product solutions.

## Your added value. Our service.

Our on-site service is available around the clock via the 24/7 hotline, often in your language, and offers you individual support in all phases of the product life cycle.

Phone: +49 9221 709-545  
E-Mail: [service@riedel-kooling.com](mailto:service@riedel-kooling.com)

## Questions about our products? Offers? Or technical information?

Our sales team is at your disposal.

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E-Mail: [info@riedel-kooling.com](mailto:info@riedel-kooling.com)



[www.riedel-kooling.com](http://www.riedel-kooling.com)