



VapoChill

Efficient chilling



A cool solution

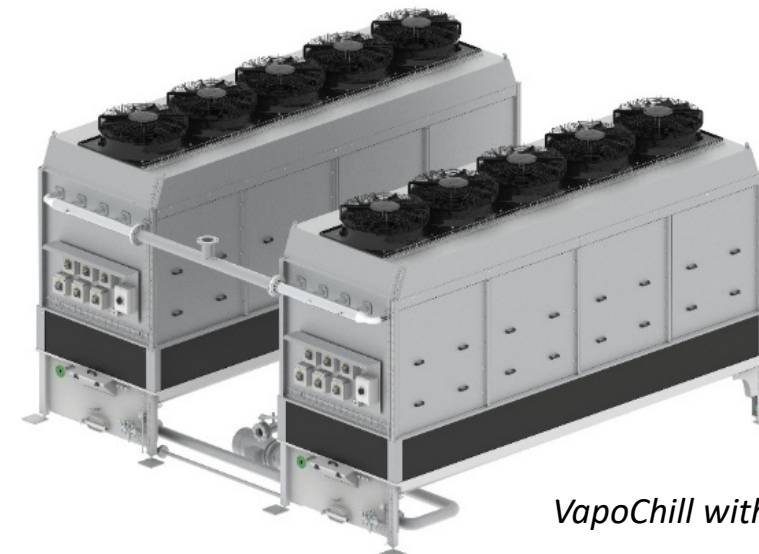
The energy required for cooling plays an important role in the beverages industry. This is why KRONES has developed its own cooling tower in the form of the VapoChill cooling tower, which is perfectly tailored to the specific requirements of the market.

At a glance

- Scalable design capable of covering cooling requirements from 50 to 2,000 kW
- Designed based on cooling requirements and local climate conditions
- Fast “plug and play” installation
- Stainless steel housing and components with a long service life
- Simple preparation of the foundations, with the load split over four individual points



VapoChill with four fans and optional equipment

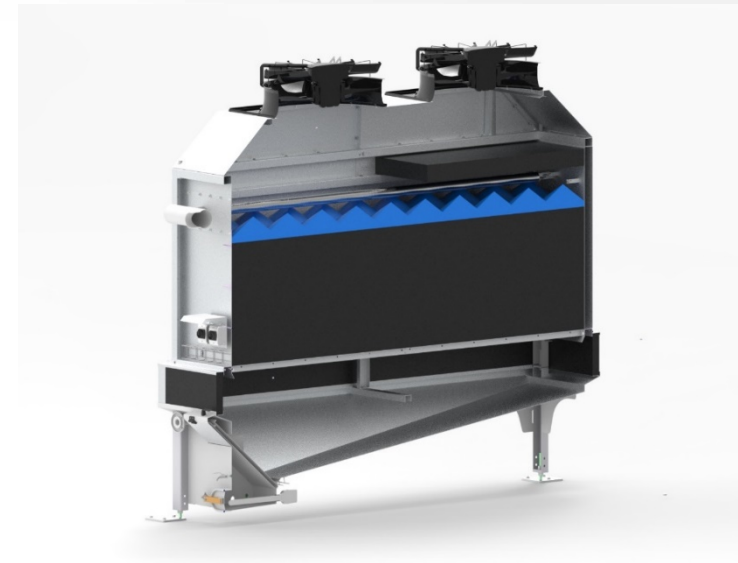
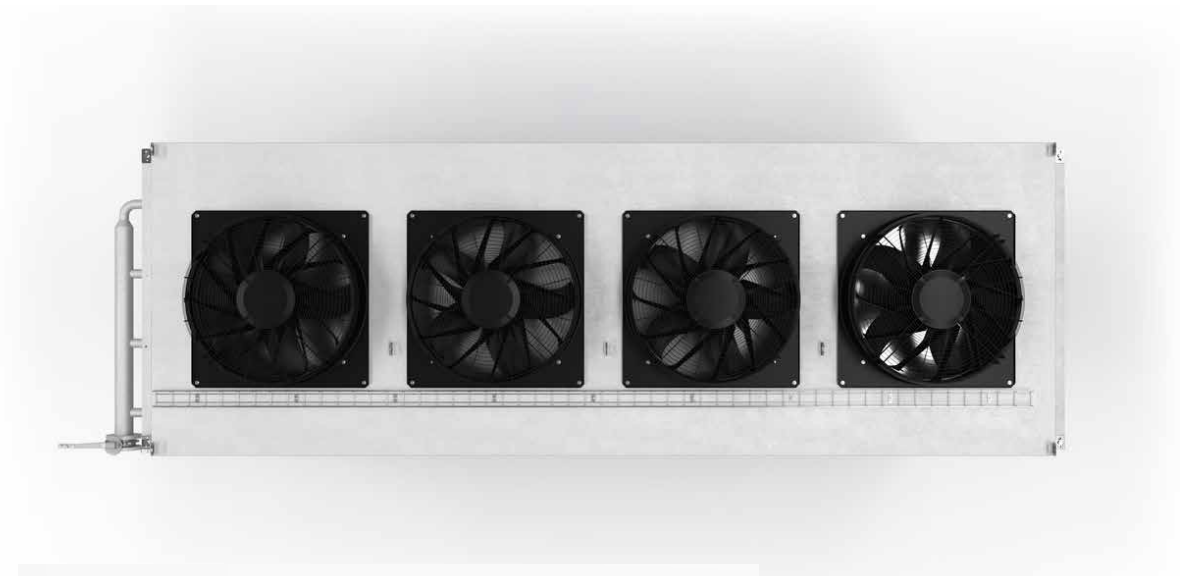


VapoChill with two cells



Machine structure with a long service life

- The enclosure of the KRONES VapoChill cooling tower is made entirely of AISI 304 stainless steel, which provides the machine structure with the longest possible service life. It is also optionally available in AISI 316L in order to further increase chemical resistance.
- The polypropylene packing material can optionally be treated with an antibacterial additive to reduce the demand for chemical disinfection.
- The machine structure is based on the design of the KRONES tunnel pasteurisers, which have performed successfully in the market for ten years now.
- Removable side walls and packing materials make for simple and straightforward interior cleaning, while double detachable sieves enable cleaning even during cooling operation.





Technical details

Fans

- Modern EC fans with up to 30 percent lower energy consumption in full-load operation
- Infinitely variable control of the fans based on the required cooling performance
- Optimised sound insulation to ensure that high demands in terms of noise control are met

Spraying system and packing materials

- Spraying system with extremely robust PVDF nozzles
- Optional: Packing materials with antimicrobial treatment
 - Reduced use of biocides
 - Increased protection against legionella bacteria

Modular design

- Safe and simple shipment in standard containers
- Modular design
- Expandable/upgradable later on (depending on the version)



Modular design of the VapoChill



Machine prepared for container shipment





Benefits to you

Best hygiene conditions

The unit is designed in accordance with Clean Design principles to achieve the best possible cleaning results with minimal personnel effort and time. Optimum accessibility to e.g. the detachable sieves ensures that the filters can be checked and cleaned while operation is ongoing.

High resource efficiency

The special blower design employed in the KRONES VapoChill reduces energy requirements by up to 85 percent in ongoing operation (compared to conventionally operated cooling towers). In combination with KRONES pasteurisers, heat exchangers and many other machines, this can help achieve significant water and electricity savings.

Optimum integration

VapoChill cooling towers are connected to KRONES machines and are integrated in their control systems with full networking, which makes operation significantly easier.

Maximum flexibility

KRONES VapoChill can be used in any application where process water needs to be cooled efficiently. This can be both in combination with a KRONES machine or with machines from other manufacturers – or for completely different applications requiring cooling water.

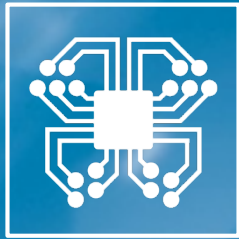


Efficient cooling for processes

KRONES VapoChill sets new standards for greater efficiency in cooling:

- The brushless fan drive enables maintenance-free operation of the fan while maximising the efficiency of the drive. As a result, the motor rating **can be reduced by up to 30 percent.**
- The fan performance is regulated by the desired cooling temperature, which means that unnecessary cooling is avoided. This also saves valuable process water and allows electricity costs to be **reduced by up to 85 percent.**
- If VapoChill is sold as part of a general concept, frequency-controlled pumps will help boost efficiency even further.





Digitalisation



Process
technology



Bottling and
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Intralogistics



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 **KRONES**