

Pallet cooling tunnel technology ContiCool CC and StoreCool SC-Plus





- 1 ContiCool CC
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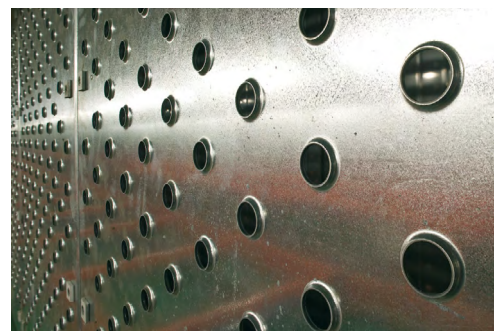
ContiCool CC for highest throughput

The correct choice of a cooling tunnel depends on many factors. Required pallet throughput, product variety, crate geometry as well as variance of temperatures for the products to be filled are of crucial significance. Voith pallet cooling systems offer the ideal solution for every challenge. In combination with the air flow routing system developed by Voith, the continuously operating pallet cooling system ContiCool CC

makes a highly efficient and gentle cooling down of the product both with critical packaging and partially loaded pallets possible. With the double-track design ContiCool technology, the system control determines the optimum track allocation depending on the individual cooling times. Thereby a process optimized cooling of the product is achieved at minimized power consumption.



Air locks at inlet and outlet of cooling tunnel minimize entry of humidity



Constant stream through the product pallet by utilization of Voith air flow systems, even with critical packaging



Technical center: Lab cooling tunnel

For the optimization of customer needs in every individual project as well as for a systematic further development of pallet cooling technology, Voith operates a lab cooling tunnel located in Bayreuth. Due to its variable design, different influential factors can be reconstructed and optimized. Uncertainties can be avoided in every individual project. An optimized “made-to-measure” system is guaranteed anytime. Voith also offers a service for the optimization of the existing cooling system and product packaging.

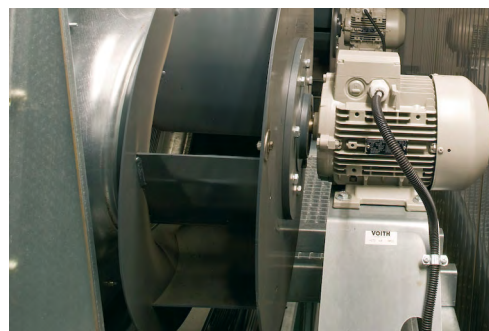
StoreCool SC-Plus for highest flexibility

The discontinuously operating pallet cooling system StoreCool SC-Plus cools the pallets only as long as necessary. A vehicle transports the product pallets to a designated cooling position and picks them up after a specific cooling period. This optimizes pallet throughput and minimizes power consumption. A crucial system characteristic of Voith StoreCool SC-Plus technology is the process optimizing Voith air flow system FlexShell. With FlexShell the cooling

times for critical packaging can significantly be reduced by up to 30%, in comparison to conventional systems. Intelligent automation modules are integrative components of Voith pallet cooling systems and enable an operating method at lowest operational costs, ensure defrosting of air coolers as needed or utilize product specific data for self-optimization of the system.



High throughputs at low energy demand with FlexShell



Compact design by utilization of directly driven freewheeling high performance fans

The product portfolio for the food industry

Air conditioning and process air systems for all areas of the food industry:

- Production
- Clean room areas
- Warehouses (High bay ware houses, raw material warehouses, goods, storage tanks, logistical areas)
- Aging areas, aging warehouses
- Filling

Process engineering:

- Process air systems
- Dehumidifying systems
- Extraction systems/vapor extraction systems
- Heat recovery systems
- Filtration systems
- Sterilization of the air by UVC
- Clean room technology
- Product cooling with ContiCool CC and StoreCool SC-Plus cooling tunnel and pallet cooling systems

Service:

- 24 hour emergency service
- Maintenance
- Spare parts
- Measuring, analysis and optimizations
- Consultation and training
- Telemaintenance (modem/internet)
- Hygiene inspections (VDI 6022 /3)
- Hygiene training

Automation:

- Process and building automation system based on Siemens Simatic and Win CC
- Technical consulting
- Software development
- Project planning
- Electrical, measuring and control design construction (CAE)
- Electrical installation
- System optimization
- Rebuilds an upgrades
- Assembly and commissioning
- Training

Air conditioning, ventilation and hygiene technology for:

- Dairy processing industry
- Confectionery
- Bakery products
- Beverages
- Sausages and cold meats industry
- Coffee and tea
- Sugar
- Preserved food industry
- Convenience foods
- Vegetables and potatoes



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