

OVERVIEW



Radial circulating ventilators made of stainless steel with continuous variable speed setting via a frequency inverter, for optimal tailoring of the flow conditions to the various process conditions. Because of the energy saving fan a less energy consumption is achieved.



The injection ducts with specially manufactured stainless steel nozzles ensure precise and uniform distribution of air in the chamber and prevent condensation getting onto the product.



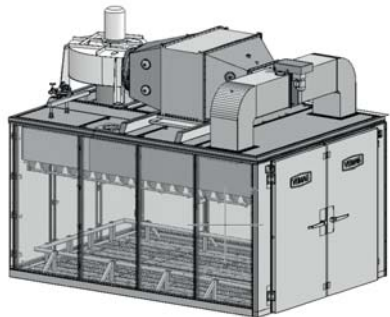
The welded-on stainless steel nubs in the aisle area of the chamber where operators have to walk considerably reduce the risk of staff slipping, but do not impede the smoke trolleys as they are wheeled in and out.



The integrated shower system ensures that the product is cooled rapidly with mains water.



The 82 mm-thick chamber elements insulated with CFC-free hard polyurethane foam render the VEMAG AEROMAT an extremely stable and pressure-resistant construction with an extraordinarily long life, as well as ensuring outstanding heat insulation characteristics. A silicone gasket (permitted for use in the food industry) between the wall, floor and ceiling elements ensures the necessary seal in this extremely hygienic construction.



Adjustable solid door hinges with a rising turning joint ensure that doors open and close easily and guarantee an absolute seal with the door-frame.

The integrated cooling unit is to cool down the air rapidly. The special designed finned tubes lead to a low air resistance. The unit can be designed for the cooling media ammonia, Freon or glycol.



The variable VEMAG air change flap system permanently changes the direction of the flow to the product, so that the end product is always perfect.



The adjustable VEMAG air change flap system adapts the flow to the production conditions on an individual basis so that a perfect product always results.



The high-quality, solid VEMAG door latch can be operated from both the outside and the inside. Its adjustable three-point latch and special seal achieve a perfect seal between door and door-frame.



The base of the chamber is shaped like a tray or a water drain and is inclined towards the door of the chamber. It enables an optimal sealant to the customers floor. This hygienic design makes the whole of the chamber floor an area which is very easy to clean.



INTENSIVE COOLING INSTALLATION

COMBINED COOLING WITH AIR & WATER



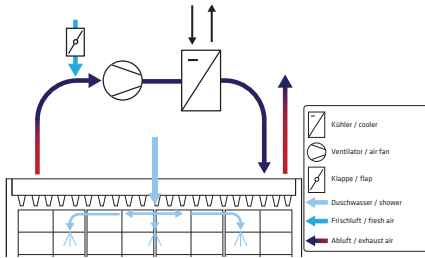
VEMAG AG 2016
 We reserve the right to make technical modifications
 © Product Management

INTENSIVE COOLING INSTALLATION

OVERALL SOLUTION

THE SYSTEM

In order to produce a top-quality product with consistent quality in the shortest possible time, identical climate and flow conditions must prevail at every location in the chamber. This is achieved by using VEMAG's tried and tested circulating air system which circulates the volume of the chamber several times a minute at intervals adapted to suit the process. The air conditioned by the central air-conditioning unit is routed into the chamber by injection ducts located under the chamber ceiling. A continuously-operating air change flap constantly varies air outlet speed and air intensity at the nozzles of the injection ducts to generate specific flow conditions. A central return duct sucks air away at a uniform rate.



AIR FLAP



THE CONTROL SYSTEM

Precise adherence to treatment times and climate conditions is a prerequisite for first-class product quality. In the VEMAG Intensive Cooling Installation, this task is performed by the MICROMAT C7 installation control unit. Based on a Simatic S7, all process sequences are continuously monitored, controlled and recorded by standard functions. The unit is operated by a convenient and multilingual SIEMENS multi-operator panel. The integrated fault reporting and limit value monitoring function guarantees that the installation will operate reliably.



VEMAG ANLAGENBAU GmbH

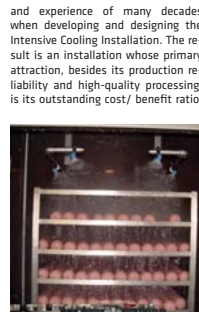
Weserstraße 32 • 27283 Verden • Germany • T: +49 (0) 4231/777-7 • vertrieb@vemag-anlagenbau.de • www.vemag-anlagenbau.com

INTENSIVE COOLING INSTALLATION

OVERALL SOLUTION

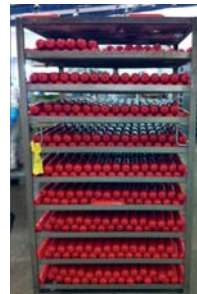
THE ALL-ROUND TALENT

With the Intensive Cooling Installation, you bring your products to the desired packing temperature quickly and gently with heat. Air circulation by an energy efficient fan, an air change flap and welded injection ducts ensure optimum flow through the trolleys. Each individual product runs through the critical cooling range of between 40°C (104°F) and 15°C (59°F) especially quickly and evenly. In a rational process chain, the Intensive Cooling Installation is the link between heat and packing. Your products are, at a core temperature of 6°C (42°F) to 8°C (46°F), ready for packing immediately. The rapid cooling process with its intensive air flow increases your turnover frequency, reduces weight loss and improves freshness, flavor and shelf life.



CUSTOMIZED MODULAR CONSTRUCTION

Developing a modular construction adapted to suit customers' requirements has enabled us to realize a rapid, simple solution to any set-up variant. The VEMAG Intensive Cooling Installation is fully assembled from the inside of the chamber, and its unique fastening system means that



VEMAG ANLAGENBAU GmbH

Weserstraße 32 • 27283 Verden • Germany • T: +49 (0) 4231/777-7 • vertrieb@vemag-anlagenbau.de • www.vemag-anlagenbau.com

INTENSIVE COOLING INSTALLATION

OPTIONS



COOKING FACILITY

The cooking facility, which is used to disinfect the installation chamber as well as cook the products, allows cooking with steam.



COLD WATER CIRCULATION SYSTEM

An energy-saving recycling system for packed products in water-impermeable casings, in which cold shower water is conditioned and returned to the process.



DOOR VARIANTS

We supply fully-automatic rising/falling doors, rolling doors or transit design doors for a variety of requirements. An automatic door-opener ensures that the chamber is ventilated after the process and that water drains out of the installation chamber.



CIP

FULLY AUTOMATIC CIP SYSTEM

The fully-automatic central cleaning system with rotating nozzles in the chamber achieves the best possible hygiene. A foam pump is also available as an option.



AUTOMATIC FLOOR CONVEYOR

If you select the automatic floor conveyor and the transit design, you have the option of largely automating your intensive cooling installation.



TYPE OF COOLING MEDIUM

The installation can be designed for the cooling media liquid ammonia, Freon or glycol.



CENTRAL MANAGING & DOCUMENTATION SYSTEM (LDS)

This system reduces complex production processes and a wide-ranging distribution of installation components to a reliable and convenient general overview for the operator.



ETHERNET CONNECTION

Messages are e-mailed to a defined e-mail distribution list.



VEMAG ANLAGENBAU GmbH

Weserstraße 32 • 27283 Verden • Germany • T: +49 (0) 4231/777-7 • vertrieb@vemag-anlagenbau.de • www.vemag-anlagenbau.com