

VEMAG Liquid Smoke System

The alternative

In addition to tried and tested glowing smoke and friction smoke generators, VEMAG also supplies liquid smoke systems as an alternative to conventional smoking methods. All VEMAG hot-smoking installations can be equipped and operated with liquid smoke systems.

The method

Whilst in traditional smoking using glowing smoke the mixture of smoulder-carbonized air and fresh air passes straight from the smoke generator to the smoking chamber in the circulating air flow, with the liquid smoke system, a liquid smoke concentrate is mixed into the circulating air flow with compressed air from dual-material nozzles. VEMAG liquid smoke systems are designed so that when the smoke aerosol is mixed in, a homogeneous particle size always results, ensuring absorptive transfer of smoke to the product.

The system

VEMAG's TG-3000 micro liquid smoke system based on TARBER technology is a high-performance system for supplying even the largest smoking chambers with a precisely metered quantity of liquid smoke. Electronic pressure controllers are used for a constant particle size in the smoke aerosol to achieve 100 % reproducible smoking quality.

The high-quality control technology with comprehensive display, indicator and safety functions allows the system to be operated without continuous supervision. The system can be operated both as a component of a VEMAG smoking system (using the MICROMAT family of VEMAG installation control units) and independently in manual mode. With the option of connecting a second liquid smoke tank and automatic system cleaning after every smoking process, it is quick and easy to change to different products and formulations. No exhaust air cleaning systems are required for operating the VEMAG liquid smoke system, as no smoke is emitted.

The partner

We collaborated with RED ARROW Deutschland and TARBER to design a liquid smoke system to meet the stringent demands of VEMAG smoking installations in full. The geographical proximity of the companies in Germany allowed existing core competences to succeed in a joint development project. These synergies have resulted in a safe, high-quality and economic VEMAG liquid smoke system: the **TG-3000 micro**.



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TG-3000 micro – functional diagram

