



CLEANROOM SOLUTIONS FROM VIESSMANN TECHNOLOGIES

SYSTEM SOLUTIONS FOR EXPOSED PRODUCT PROTECTION



Safe environments for sensitive goods and operations

With Viessmann systems solutions you guarantee exposed product and operator protection when handling active ingredients and auxiliary substances in a GMP environment.

EU-GMP-qualified, energy efficient and consistent modular-design systems provide our customers with utmost flexibility for creating their sensitive production areas. Applied re-circulating air systems, enhanced by active filter cartridges and thermodynamic air-conditioning, meet the highest standards. All over the world, well-known representatives of the LS industry rely on Viessmann clean air modules.

Stability test chambers

Viessmann Technologies' stability test chambers are designed to protect the life and health of patients and protect the interests of pharmaceutical producers.

Stability test chambers in pharmaceutical production are used to verify the microbiological, chemical and physical stability and to define the lifespan of pharmaceutical products according to EU GMP, WHO and ICH directives. The test chambers are designed as self-supporting, free-standing cabins and are based on the existing TectoCell cold room system.



Sampling cabin in pharmaceutical production

Sampling and weighing areas are a very important part of pharmaceutical production in the GMP environment.

The modular, standardised system solutions offer a high degree of process reliability. Industrially pre-fabricated room modules, compact and energy-efficient climate control and refrigeration technology as well as application-specific, certified monitoring systems meet the high standards of room classes C to A according to the EU GMP guidelines.



Product protection in sterile filling of liquid production

In the filling area, openly handled pharmaceuticals require the highest level of product protection and a sterile environment.

The laminar flow cabins that are designed according to EU GMP Class A and are made of certified, standardised components provide life science industry users with a high degree of design freedom as well as integrated product and personal protection.



Workstations for precision weighing in a GMP environment

Viessmann system solutions for precision and weighing workstations guarantee exposed product and personal protection when handling active ingredients and excipients in the GMP environment.

EU GMP-qualified, energy-optimised and modular systems provide our customers with the highest possible flexibility in the design of their sensitive production areas. Application-specific re-circulating air systems, together with active filter elements and thermodynamic air treatment, meet the highest standards. All over the world, renowned LS industry players rely on Viessmann ultra-clean air modules.



Cooling locks with technology from the European market leader

Maintaining the cold chain as well as the controlled and targeted cooling-down of liquids under classified clean conditions constitutes a big challenge in pharmaceutical manufacturing. Viessmann, with its market-leader position and competency in cooling systems, offers a wide range of certified clean-room cold stores, horizontal and vertical flow cooling locks and stability testing chambers.

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Our portfolio includes:

- + HVS (high velocity streaming) horizontal flow cooling locks for controlled cooling-down of nutritional solutions with integrated temperature and pressure monitoring.
- + LVS (low velocity streaming) vertical lock for monitored temporary storage and locking out of samples in the pharmaceutical industry, EU-GMP classification C

KEY BENEFITS:

- + Monitoring of pressure, temperature and humidity in classified cooling locks
- + Ensuring the cold chain
- + Exact temperature control
- + Refrigerated storage according to regulations of sensitive goods in medical sector



HVS (high velocity streaming) horizontal flow cooling locks for controlled cooling-down of nutritional solutions with integrated temperature and pressure monitoring



Monitoring of pressure, temperature and humidity in classified cooling locks



LVS (low velocity streaming) vertical lock for monitored temporary storage and locking out of samples in the pharmaceutical industry, EU-GMP classification C

Active material- and personnel locks



Active locks ensure the safe transfer of staff and materials between differently classified clean-rooms. Beside the transfer, they are used for active cleaning, disinfection and cooling, depending on the project. Dur lock systems work on the principle of low-turbulence displacement flow, induction or rotary surface cleaning. Consistent modularity, premium-quality controlling and monitoring systems and compliance with the design criteria of the LS industry define the product properties.

KEY BENEFITS:

- + Smooth, non-abrasive, chemically resistant surfaces also with H2O2 gassing
- + ESD or EC suitability
- + Door and glazing systems integrated flush with the adjacent areas
- + Air and particle tight performance
- + Qualifiable according to EU-GMP guideline
- + Modular, always adaptable construction
- + Compatible control and monitoring units

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