

## VENTILATION TECHNOLOGY IN THE PHARMACEUTICAL INDUSTRY

Lifecycle costs – Quick product introduction – Continuous manufacturing – Liquid filling – OSD: The requirements for processes in the pharmaceutical industry are varied and demanding.

In the process, ventilation and air conditioning technology must meet specific and extremely stringent requirements. Because reliable ventilation systems ensure the stability of your processes and provide production reliability.

Since the active ingredients used in medications are often active or even highly active pharmaceutical ingredients (API / HAPI), indoor ventilation and air conditioning systems also ensure human protection.

Where work safety and the protection of valuable products, people and the environment are priorities, it is of paramount importance that all components of a clean air system complement one another perfectly.

### AIR MAKES THE DIFFERENCE



TROX ventilation solutions ensure safe, continuous, and trouble-free production and protect people, since today the active ingredients used in medications are often active or even highly active pharmaceutical ingredients (API / HAPI). Ventilation solutions play a significant role in all rooms and are based on your individual requirements.

As Germany's No. 1 provider of ventilation and air conditioning technology, we offer bespoke, complete ventilation and air conditioning solutions from a single source: a handling units and fans, measurement and control components, and a unique range of aerodynamically optimised air terminal devices, filters, and fire protection and smoke control components all deal with the various stages of the airflow.

What that means for you:

- Fewer interfaces
- Clear responsibilities
- Shortened design and implementation times

No matter where you implement your next project: the TROX Group is ready to support you on site with its worldwide production locations and subsidiaries.

### THE DECENTRALISED VENTILATION SYSTEM - IDEAL FOR THE PHARMACEUTICAL INDUSTRY



Safety, efficiency and comfort. The X-CUBE CROFCU clean room solution combines all relevant functions of ventilation and air conditioning:

Compliance with the required air change rate

- Control of the supply, extract and recirculating air
- Admixture of the required fresh air
- Decentralised cooling for more efficiency
- Control of the volume flow rates, room balancing and room pressure control for up to four rooms
- Room temperature control
- Detection of relative humidity for humidification and dehumidification

With our GMP clean room concept, we can offer a standardised solution for individual requirements.

You can find more information on this topic in our "Air distribution technology for clean rooms" product manual.