

## CLEAN ROOM CONCEPTS – FOR EVERY INDUSTRY

CLEAN ROOM CONDITIONS ARE NEEDED IN A WIDE VARIETY OF AREAS.

Our solutions are used wherever the highest demands are placed on air hygiene and room air conditions:

- Pharmaceutical industry
- Healthcare (operating theatres, intensive care units and isolation rooms)
- Semiconductor and nano industry
- Breweries, large bakeries
- Chemists
- Animal husbandry (rooms and IVCs)
- Precision mechanics industry
- Glass lamination
- Plastic injection moulding production
- Micro electronics
- Food industry
- Aerospace
- Medical technology
- Cannabis cultivation
- Vertical farming

In other words, wherever people, products or the environment need to be **protected against contamination**.

## CLEAN ROOM TYPES - IT'S THE AIR THAT COUNTS



The **variety of clean room types** is as great as the **variety of industries** and yet the various rooms are the same or similar in many respects.

In terms of ventilation, they differ in the following points depending on the process:

- Air cleanliness class (according to ISO 14644-1 or GMP or Federal Standard 209E)
- Air change rate (resulting from the air cleanliness class)
- Temperature and humidity (depending on the process)
- Fresh air rate (depending on the process)
- Type and manner of air supply

One thing you can always rely on: no matter what type of clean room you need- TROX offers you the appropriate solution for your application.

## ANY QUESTIONS ABOUT CLEAN ROOM ?



## WE ARE HAPPY TO ADVISE YOU.

Whether new construction, design, optimisation, system expansion, refurbishment or maintenance - TROX is at your side. Describe your specific needs to us or arrange a non-binding consultation.

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## WHETHER CENTRALISED OR DECENTRALISED...



### ... WE HAVE THE RIGHT SOLUTION FOR YOUR PROJECT!

As different as the requirements in individual projects are, the approaches to solutions are just as different.

Here, our **X-CUBE CROFCU** offers an efficient, **safe and flexible alternative** to classic centralised systems.

In addition to **modular design and flexibility**, the decentralised solution of X-CUBE CROFCU offers **high potential savings in operating and investment costs** e.g. through:

- Smaller central units, as less fresh air is needed
- Significantly smaller duct networks
- Modern EC fans in the decentralised devices
- Spot cooling, integrated room control system for up to four rooms per device

#### Further advantages are:

- Accidents are isolated, as areas and processes are separated in terms of ventilation technology
- Fast installation and commissioning
- Factory acceptance test (FAT)

TROX IS A MEMBER OF VIP3000 E.V.



TROX is a member of **Verein Interessengemeinschaft Pharmabau 3000 e.V.** (a German association of interest groups from the pharmaceutical industry)

VIP3000 bundles ideas and visions around the topic of clean rooms and pharmaceuticals.

Leading companies and research institutions in the German-speaking pharmaceutical, chemical and cosmetics industries, their suppliers, as well as planners and universities are involved in VIP3000.

## CLEANROOM FUTURE



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Cleanroom Future is a knowledge and training platform for professional clean room management for clean room managers operated by Frank Duvernell.

TROX is a partner of this platform.