

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 FILTERS?



I AM 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.

Patric Unterdorfer

Global Key Client Manager Pharma & Food

Phone: +49 (0) 2845 202 1128

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



**CLEANROOM
FUTURE**

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.