

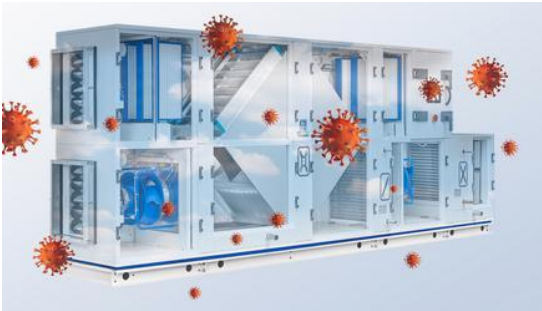
HIGH HYGIENE STANDARDS AT THE HOSPITAL

Air is life, because it provides us with necessary oxygen. But what if the immune system has been compromised? In such a case, air can even become life-threatening. Pollutants, bacteria, or even a virus may be introduced with each breath taken. A healthy body can usually cope with such microorganisms without any problems, but a sick body cannot.

For this reason, the **conditioning and control of airflows in hospitals** are of almost elementary importance, because medical facilities are confronted with new challenges such as multi-resistant viruses, germs and pathogens every day. "Every year, 400,000 - 600,000 patients in Germany fall ill with hospital-acquired infections, some of which can be prevented or influenced," – says a [report by Germany's Federal Ministry of Health \(DE only\)](#).

Go one step further in hygiene and safety together with us. The new features of our systems are specially designed to meet the high requirements for air hygiene and air purification in highly sensitive areas.

REDUCED RISK OF INFECTION THROUGH MECHANICAL VENTILATION



Air contains not only trace substances and gases, such as oxygen, which is vital for us, but also other elements such as radicals or dust particles released in the environment. COVID-19 has brought so-called aerosols, which are produced by breathing, particularly into the public eye: they are capable of transporting pathogens. If aerosols get into closed rooms, they distribute evenly there. At the same time, they are so light that they are almost stationary in the air and remain active for up to 16 hours.

In addition to wearing a mouth-nose protection and regularly cleaning hands and surfaces, repeated airing can also limit the transmission of viruses in closed rooms. Another efficient option mentioned by the RKI is air exchange by means of ventilation and air-conditioning systems.

The General Air Technology Association within the German Engineering Federation (VDMA) also validates correct ventilation and air purification technology as an important contribution to reducing the risk of infection.

AIR DISTRIBUTION TECHNOLOGY

Ventilation and air conditioning systems in hospitals ensure that the contamination of indoor air with micro-organisms is reduced to a minimum. Moreover, dust, anaesthetic gases and odorous substances must be contained.

This applies in particular to operating theatres, intensive care units, delivery rooms and neonatal units. The risk of infection is minimised by the correct air distribution and effective air filters. But that is not enough: Air can easily overcome barriers and can, hence, not be locked out.

Using precise pressure control and airlocks, however, it is possible to isolate rooms with particularly critical requirements on air cleanliness.

YOUR PERSONAL ADVISOR



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

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INTERESTING VIDEOS ON THE TOPIC

TROX AIR PURIFIER

Safe, energy-efficient and quiet: Reduce the risk of infection in closed rooms with the TROX air purifier now!

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X-CUBE

Quality, output, flexibility, reliability, energy efficiency and hygiene – find out how our new air handling unit works.