

HEALTHY CLIMATE AT THE HOSPITAL

To make hospitals a safe place for patients, visitors and professionals, it is important to take all available measures to minimise the risk of infection. But how can we create an environment that is as safe as possible, where disease transmission is almost impossible? The answer lies, among other things, in the air and thus in the ventilation system.

Indoors, **good air quality** has been shown to not only increase well-being, but also actively contribute to faster recovery, health and workplace productivity.

In a hospital with a wide variety of areas, a wide variety of requirements must be taken into account:

- Air cleanliness and **Hygiene**
- Comfort level and occupational health and safety
- **Safety and fire protection**
- Aspects of operation and costs

For us ventilation and air conditioning experts, the sizing and design of ventilation and air conditioning systems for a hospital is one of the most demanding and complex projects. Especially in highly sensitive areas, particularly high standards of hygiene and safety are set.

With comprehensive concepts and customised solutions, we go beyond these demands. This requires the **greatest possible experience, Expertise** and close coordination with doctors and hospital hygienists. The effort has paid off: Good indoor air quality helps patients to recover in much less time.

WHAT YOU CAN EXPECT FROM US



From high-performance filters and air terminal devices to air-water systems and control systems, air handling units and fans, TROX covers the entire range of components, units and systems for ventilation and air conditioning. This gives us the ability to provide optimised, comprehensive solutions for **ventilation, Fire protection and Smoke extract**; including the accompanying control systems specifically optimised for newly constructed and refurbished hospitals.

We value

- Perfectly coordinated system solutions from design to operation, as well as
- Individual advice and support, including just-in-time delivery
- Fewer interfaces and therefore reduced potential for errors, as well as lower costs
- Efficient and comprehensive project design taking into account the total costs of ownership
- Service and maintenance up to 24/7 system monitoring

Trust our comprehensive design: One source for everything, the perfect system - Give us a call!

YOUR SPACES – OUR EXPERTISE



CRITICAL AREAS

Targeted control of the **room pressures in negative or positive pressure** separate different areas from each other or from their surroundings in regard to air distribution technology. With continuous monitoring of the parameters, there is always an overview of all current states.

- Operating theatre wing
- Care rooms
- Isolation ward
- Labs
- Central sterilisation

► Find out more ►►



SENSITIVE AREAS

Here **temperature and humidity control**, as well as the reduction of potentially infectious aerosols are particularly important:

- Patient rooms
- Treatment rooms
- Nursery
- Rooms of the normal care
- Examination and recovery rooms
- MRI and CT rooms
- Corridors
- Storage rooms

► Find out more ►►

DESIGN AID FOR ZONE-DEPENDENT VENTILATION MEASURES

	Mechanical ventilation	HEPA-air filtration	Temperature control	Humidity control	Room pressure control
Public areas					
Sensitive areas					
Critical areas					

Waiting room, treatment room, operating theatre or laboratory – a hospital combines the most diverse types of rooms under one roof.

But what air quality requirements must be met in each case?

For an insight into the differences between the individual zones, simply refer to the adjacent table.

DETAILED DESIGN AID

And finally, our comprehensive table shows readers **design information** on the most important ventilation and air conditioning parameters for healthcare.



WE ARE FOCUSED ON YOUR SAFETY

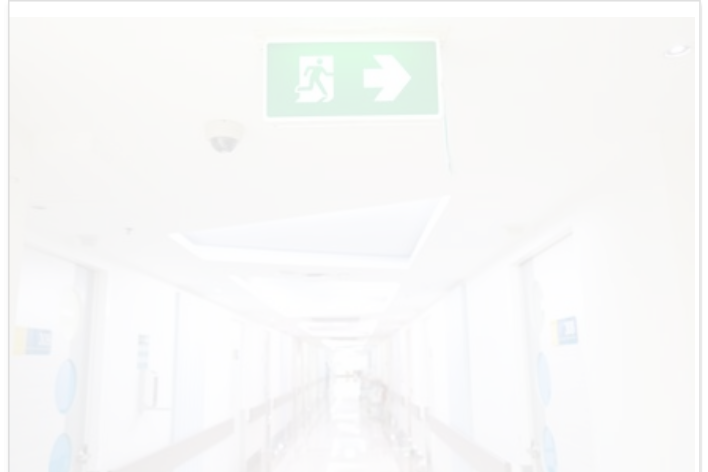


HIGHEST HYGIENE STANDARDS

Hygiene is elementary in everyday hospital life – for the protection of visitors, patients and staff.

The new features of our ventilation and air-conditioning systems are therefore specially designed to meet the high requirements for air hygiene and air purification in highly sensitive areas.

[▶ Air hygiene in the healthcare sector ▶▶](#)



SAFETY IN THE EVENT OF A FIRE

Fire protection in hospitals must ensure rapid evacuation in the event of an incident, as people who cannot save themselves under their own power must be helped here.

We give functional safety top priority in their fire protection and smoke extract systems.

[▶ Find out more here ▶▶](#)