

HEALTHY CLIMATE

PERFECT SYSTEM

Complete solutions: All air conditioning products from a single source.

From fans and air handling units to efficient filters, and from air terminal devices and air-water systems to intelligent control components: the TROX portfolio comprises the entire spectrum of ventilation and air conditioning components, units and systems. TROX can hence provide complete solutions for hospitals.

Components, units and systems from a single source are a clear advantage as they reduce the design and coordination effort considerably.

Stringent conditions for hygiene and safety.

In the highly sensitive areas of health care, more than anywhere else, ventilation and air conditioning systems must meet particularly critical hygiene and safety requirements:

- Minimise the level of airborne bacterial contaminants, particularly in protection zones (operating theatre, instrument trolley, lab)
- Ensure the necessary air change and maintain stringent room air conditions (differential pressure, temperature and humidity)
- Limit the concentration of contaminants in the occupied zone
- Prevent the spread of fire by means of fire dampers
- Prevent the spread of smoke by means of a powered smoke exhaust system

HEALTHY AND CONTROLLED CLIMATE

Hospitals have special requirements on the equipment and performance of ventilation and air conditioning systems. Room air contamination must be minimal at all times, and critical limits must not be exceeded at any time. Moreover, dust, waste anaesthetic gases and odorous substances must be contained and removed by a suitable air conditioning system. This applies in particular to operating theatres, intensive care units, delivery rooms and neonatal units.

Intelligent air management systems make sure that everything is under control. Hygiene and safety are the overriding factors, yet energy efficiency should not be neglected. TROX has long been committed to the development of adaptable system solutions that are highly efficient and help not only to save resources but also to reduce system operating costs.

Innovative, widely proven technology from TROX can be found in many large and well-known hospitals all over the world. This is not surprising since TROX products meet the most demanding requirements of hygiene and safety.





COMPLEX REQUIREMENTS OF HEALTHY ROOM AIR

Selecting and designing a ventilation and air conditioning system for a hospital is one of the most challenging and complex tasks for building services engineers. It is also a particularly appealing task for everyone involved: for specialist consultants and HVAC contractors as much as for component manufacturers. A task that requires a maximum of experience, skills and technical know-how, and close cooperation with doctors and hygiene specialists.

Air cleanliness

- Operating theatre – low-turbulence
 - laminar flow
- Operating theatre and other sensitive areas: Air filtration
 - Operating theatre and other sensitive areas: Differential pressure control

Good air, speedy recovery

- In-patient wards
- Public areas
- Kitchen and cafeteria

A breath of fresh air

- Work areas

High-tech room air conditioning

- Centralised air conditioning and air handling
 - Air handling unit
- Fire protection
 - Mechanical smoke exhaust



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