TROX® TECHNIK
The art of handling air

OPERATING THEATRE AND OTHER SENSITIVE AREAS:

DIFFERENTIAL PRESSURE CONTROL

Filtration alone is not enough since air can overcome barriers and can, hence, not be locked out easily. With LABCONTROL it is possible to precisely control pressures in the operating theatre and adjoining areas and to isolate rooms with particularly critical requirements of air cleanliness from those with less critical requirements. LABCONTROL is a control system that provides a tailored solution for safe and energy-efficient airflow control in sensitive areas such as laboratories, clean rooms and hospitals. Quick-response control loops are suitable for the volume flow control in fume cupboards and for room pressure control, e.g. in operating theatres and ICUs. Complex room balancing functions and room monitoring functions are likewise possible.LABCONTROL has been optimised for complex system requirements such as in hospitals. The system comprises VAV terminal units, electronic controllers, monitoring devices, sensors and control panels. The integral control logic allows for displaying and controlling different room situations precisely. For example, it is possible to switch between operating modes for septic and aseptic rooms, thereby allowing for a flexible room usage. Another advantage of the TROX air control system is the independent room management function. Critical room functions are subject to decentralised control, i.e. they are controlled locally and independent of each other. For example, room pressures can be controlled by external units without any delays. Users can choose to have optical and acoustic alarms also displayed as text messages on the control panel. Even UPS can be integrated. The system allows for flexible bus connections (e.g. BACnet, Modbus or LON) to the BMS.