

# TOP RANGE VENTILATION AND AIR CONDITIONING TROX PRESENTS COMPLETE SYSTEMS AT ISH

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At ISH 2017, TROX presents under the theme of 'The TROX Principle' once again a range of innovative and optimised systems, units and components.

## NETWORKED WORLDS – NETWORKED SYSTEMS

Increasing urbanisation is accompanied by a need to constantly adapt buildings to changing use. This is why TROX has developed integrated ventilation and air conditioning systems which respond to changing requirements in real time. They ensure the provision of the required air quality on demand as well as maximum building safety, and then independent of the building type or usage.

One focus of TROX at ISH 2017 are top range ventilation and air conditioning systems. Their excellent features are illustrated by example of a hospital with its very special demands and requirements. Air hygiene has the highest priority in the medical sector. Room air contamination must be minimal at all times, and critical limits must not be exceeded at any time. In addition, germs, dust, anaesthetic gases and odorous substances must be contained and removed safely. Hospitals present a complex challenge to control systems since pressure, temperature and air quality may well have to be different for every single room.

X-CUBE air handling units together with X-CUBE control (energy-efficient control system for air handling units) and high-efficiency particulate filters ensure that the demanding requirements of hospitals are met. X-CUBE air handling units are designed to meet those high requirements, and X-CUBE control is easy to install and runs reliably.

## X-CUBE WITH RUN AROUND COIL SYSTEM (RCS) FOR CRITICAL HYGIENE REQUIREMENTS

Even the X-CUBE basic version meets very demanding hygiene requirements due to its special features such as an extra flat stainless steel condensate drip tray, which is sloped in all directions, or integral cable ducts with patch panels that ensure clean cabling. The improved TROX hydraulic unit is another plus for hygienically sensitive areas. The hydraulic unit includes its own control unit and can be integrated with X-CUBE control. New features of the RCS include the preheating of filters, recovery of cooling energy from the dehumidification process, adiabatic cooling and the use of twin pumps to ensure redundancy. In addition, there are new types of heat exchangers with improved capacity. The RCS is also available with encasement and for outdoor installation.

The *new hydraulic unit* for the X-CUBE's high-efficiency RCS is a powerful system for heat recovery and for the feeding of heating and cooling energy. The system can be easily integrated with the central BMS and requires only minimal wiring effort, hence facilitating installation and commissioning; the intelligent control functions ensure maximum energy efficiency.

## HYGIENE APPLICATIONS: QUALITY IN EACH AND EVERY DETAIL

The JZ-LL-A2 multileaf damper was developed as a shut-off and flow adjustment damper, e.g. for air handling units. Although made of stainless steel, and hence robust from the start, we have been able to improve it thanks to an innovative manufacturing procedure. The special clinch procedure has replaced welding, which due to the ferrite in the steel could eventually lead to corrosion. Pickling of the components is no longer necessary.

The new JZ-LL-A2 multileaf damper is temperature resistant up to 100 °C and available in sizes from 200 mm x 180 mm to 2000 mm x 1995 mm.

New manufacturing procedures such as clinching make the new stainless steel multileaf dampers an excellent choice for hygiene applications.

## NEW DOWNSTREAM SOUND ATTENUATOR REDUCES ENERGY COSTS

Combining our know-how and expertise from all fields of ventilation and air conditioning opens up new perspectives in room air conditioning.

This is how we were able to develop a new downstream sound attenuator, for which we have already filed a patent application. The sound attenuator is placed just downstream of the fan and, due to the clever air distribution, creates a much lower pressure drop (resulting in energy savings) while at the same time reducing the sound power level.

Visit TROX at ISH (hall 11.0, booth B51) to see these and many other innovations. More information and technical details of the systems and products shown can be found at [www.trox.de/PR\\_ISH2017](http://www.trox.de/PR_ISH2017)

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TROX is leading in the development, manufacture and sale of components, units and systems for the ventilation and air conditioning of rooms. With 27 subsidiary companies in 27 countries on 5 continents, 14 production facilities, and importers and representatives, TROX is present in over 70 countries. Founded in 1951, global market leader TROX, whose international head office is in Germany, generated in 2016 with a total of 3,700 employees around the globe revenues of nearly €500 million.

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