TROX® TECHNIK
The art of handling air

DECENTRALISED VENTILATION – ENERGY EFFICIENT, INDIVIDUAL, TECHNICALLY PERFECT TROX SHOWS PROGRESSIVE SOLUTIONS AT THE BAU 2015

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In line with 'Focus Design', the TROX motto for the BAU 2015 (Hall B1, Booth 120), which takes place from 19 to 24 January 2015 in Munich, Germany, high-efficiency decentralised ventilation systems must also be easy to integrate with architectural concepts.

One of the products presented at the trade fair is FSL-U-ZAS. False floors provide space that need not be wasted. It can instead be used for the installation of an efficient and energy-saving secondary air ventilation unit, a TROX supply and extract air combination. The unit is suitable both for new buildings and for refurbishments and achieves the energy benefits of water for heating or cooling. It is ideal for the ventilation and extract ventilation of rooms with a depth of up to six metres. A fresh air flow rate of up to 120 m3/h ensures always good air quality in the room. In the case of mixed air ventilation, the unit can provide a volume flow rate of up to 300 m³/h. The integral heat exchanger provides maximum energy efficiency all year round by recovering heat from the extract air.

Individually or according to a specific control strategy – the TROX under floor unit FSL-U-ZAS can easily be integrated with existing control settings.

Other special features include:

- The unit is maintained through the grille.
- Cleaning the heat exchangers (VDI 6022, Part 1, Hygiene requirements on air handling units and systems) is simple.
- All components, including filters and EC fan, are easily accessible and can be exchanged after simply removing the grille.
- Condensation-free operation.

With two more under floor solutions, FSL-U-ZUS (supply air unit with secondary air addition) and FSL-U-ZAB (supply and extract air unit), TROX is one of the few companies in this industry that can provide bespoke under floor ventilation units that meet almost every requirement.

The FSL-U-ZAS under floor unit has a maximum height (including grille) of only 195 mm (maximum height when installed in a false floor: 140 mm) and a maximum length of 1150 mm; it is hence ideal for refitting ventilation and and air conditioning systems in refurbishment projects.

The TROX TROX SCHOOLAIR units have also been enhanced. The decentralised ventilation units provide individual and energy-efficient ventilation of classrooms, playrooms in daycare facilities, and rooms in similar establishments. They are an equally good solution for office and administration buildings where high air quality is a must.

A new introduction at the BAU 2015 is SCHOOLAIR-V-1800, which is only 1800 mm high and provides a volume flow rate of up to 300 m^3/h. This means that there is now also a decentralised solution for refurbishments with a concrete façade that is typical of the 1970s and does not allow for larger units.

Special features of TROX SCHOOLAIR-V-1800 include:

- Demand-based operation (VOC)
- High-efficiency EC fans
- Low specific fan powers (SFP)
- Indivitual room temperature control
- Change to energy efficient secondary air operation

Low investment costs, simple design, and uncomplicated and rapid installation, e.g. during school holidays, make decentralised units an attractive option for municipalities.

With dimensions of only 600 x 1800 x 349 mm (WxHxD), SCHOOLAIR-V-1800 is ideal for refitting ventilation and air conditioning systems in school buildings that date back to the 1970s

VentoTec is a joint project of TROX and SCHÜCO for the development of the world's smallest decentralised ventilation unit for non-residential buildings; the unit provides a volume flow rate of up to 100 m^3/h and is perfect for office buildings. The possibility of a concealed installation into a façade with sandwich panel and choice of any outer casing both on the inside and on the outside gives architects almost unlimited freedom of design. The unit is controlled with a selector switch, a control panel with LCD in combination with PIR sensors, or via LON from the central BMS, depending on the variant. As options, air quality and humidity sensors can also be used for demand-based control. The decentralised ventilation unit can be installed while the façade is being erected.

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Download Photo FSL-U-ZAB (high-res)

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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 30 subsidiary companies in 30 countries on 5 continents, 14 production facilities, and importers and representatives, TROX is present in over 70 countries. Founded in 1951, TROX generated in 2013 with a total of 3,700 employees around the globe revenues of €416 million.

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