TROX® TECHNIK
The art of handling air

COMFORT, SAFETY AND EFFICIENCY FOR NEW OFFICES

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FFT is a global provider of automated and flexible production systems. With more than 1900 employees the company is serving all industrial sectors. The FFT head office is situated in the city of Fulda, Germany, where last year the company invested heavily into the expansion of their site, doubling their office space to 8000 m². It was the goal of the decision-makers to create comfort in the offices and in the factory. This is why TROX could secure the project and deliver ventilation and air conditioning products for the new buildings.

At the heart of the new system is a weatherproof X-CUBE air handling unit with a capacity of 26,000 m³/h and integral controls, i.e. the TROX X-CUBE CONTROL system. It monitors and controls all relevant functions of the X-CUBE air handling unit, provides automatic balancing and monitors all ventilation and fire protection components.

X-CUBE CONTROL is linked to TROXNETCOM, which in turn controls the circular and rectangular fire dampers of types FK-EU and FKRS-EU, respectively. This type of AHU control is easily expanded as up to 62 AS-EM modules for the control of motorised fire dampers can be linked to X-CUBE CONTROL using an AS-i terminal.

The building owner placed particular importance on the smooth interaction of the ventilation and air conditioning system with the fire protection system; easy installation of the components was another goal. TROXNETCOM meets these requirements perfectly. All the data for both ventilation and air conditioning and fire protection can be displayed and operated using the same system with a communication master. The simple bus structure and the fact that only one cable is used for voltage and signals reduces the fire load in the individual areas considerably.

X-AIRCONTROL allows for demand-based, individual room control strategies. Supply and extract air volume flow rates and water circulation for air-water systems are controlled based on occupancy, room air quality, temperature and/or humidity. As a consequence, this system, which is also connected to X-CUBE CONTROL, allows for demand-based control and is hence particularly energy-efficient. Splitter sound attenuators in the X-CUBE as well as TROX secondary attenuators in the ducting ensure that air distribution is almost inaudible.

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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 29 subsidiary companies in 28 countries on 5 continents, 14 production facilities, and importers and representatives, TROX is present in over 70 countries. Founded in 1951, world market leader TROX, whose international head office is in Germany, generated in 2014 with a total of 3,700 employees around the globe revenues of €482 million.

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