

TROX[®] TECHNIK

The art of handling air

Smoke control saves lives: TROX presents new type of smoke control damper

In the event of a fire, one of the prime objectives is to prevent the smoke from spreading. This is where fire dampers and smoke control dampers play a major role as they prevent the toxic gases from spreading through ducting. TROX has been very active in the research and development of this technology and has now further perfected it.

The multileaf EK-JZ smoke control damper is installed in the walls of shafts that are used for smoke extract. The damper is ideally suited to keep stairwells free from smoke when a pressurisation system is used; it can be installed in fire-resistant smoke extract ducts as well as in underground car parks. EK-JZ has been designed for the removal of smoke and heat through mechanical smoke and heat exhaust systems and as an additional supply air inlet. It can also be used for ventilation if the exhaust system has been approved for this function.

Thanks to their size and compact depth, EK-JZ dampers are suitable even for installation in restricted spaces (nominal sizes from 200 x 430 mm to 1200 x 2030 mm), and they extract smoke at high volume flow rates of up to 87,700 m³/h or 24,360 l/s. EK-JZ smoke control dampers perfectly complement EK-EU smoke control dampers. High-temperature resistant EK-JZ dampers feature an innovative two-level sealing system, which ensures only minimal leakage levels with both high and low temperatures. This applies specifically to the highest temperatures, such as in the event of a fire, as well as to normal ambient temperatures. EK-JZ dampers are fitted with specially contoured, aerodynamic blades. The dampers have been classified EI 120/90 (V_{edw}, i ↔ o) S1000 C_{10,000} MA multi to EN 13501-4.

The EK-JZ smoke control damper is the perfect addition to the TROX portfolio, which already includes the FKRS-EU fire damper, the 'intelligent' TROX TLT fan, the X FAN-Control frequency inverter unit and the VD fan diagnosis system; together, these components allow for individual solutions even for difficult installation situations. They can be integrated with TROXNETCOM, a control system for complete fire protection solutions in buildings. All the safety-related information for fire protection and smoke extract is read and controlled via one central interface.

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The new multileaf EK-JZ smoke control damper is easy to install due to its rectangular construction and the integral actuator encasing; there are no protruding parts.

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 3,770 employees around the globe revenues of nearly €500 million.

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