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TROX® TECHNIK
The art of handling air

19 January 2015

A symbiosis of unique design and innovative technology
State-of-the-art solutions from the technology leader

Focus Design – this is the TROX motto at the BAU 2015 (Hall B1, Booth 120), which takes place from 19 to 24 January 2015 in Munich, Germany, where TROX proves once again its technological leadership in the field of ventilation and air conditioning. The motto not only refers to an attractive product design but also, in each and every case, to a technical innovation.

The XARTO swirl diffusers stress the motto particularly well. They exemplify perfectly the separation of function from design. A great variety of face plates offer a multitude of possibilities such that every creative or architectural design idea can be achieved. The technical concept is no less impressive: The swirl unit behind the steel face plate is made of plastic and has three-dimensionally profiled contours to create an efficient swirl. It is only due to polymer technology that these 3D blade contours can be produced. As a consequence, the air velocities and temperature differences in the occupied zone are very low, and the level of comfort is excellent.

XARTO swirl diffuser with optimised swirl unit

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XARTO face plates are available in many different designs

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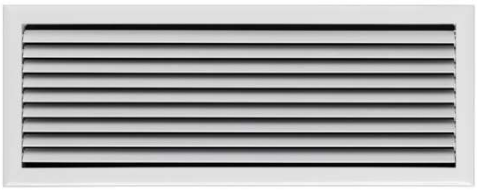
The X-GRILLE ventilation grilles from TROX are award-winning products. The newly developed hollow blades are supported in the centre and have a symmetric, aerodynamic profile that results in an only low pressure drop both with supply air and extract air applications. The new structure results also in an acoustically optimised air distribution. The powder-coated blades are interlinked (concealed) and can be adjusted in groups of up to nine blades. This allows, for example, also for spreading the airflow. For the innovative design of the ventilation grilles TROX has received the Iconic Award and the 'Interior Innovation Award – Winner 2014'.



The X-GRILLE ventilation grille for volume flow rates of 140 to 11,400 m³/h is available in two variants. Customers can choose between the tasteful two-colour Cover design and the more subtle, unicolour Basic design.

Another example for the successful symbiosis of technology and design is the TJN jet nozzle. This product type is not only aesthetically attractive but also more energy-efficient; plus it offers improved acoustic properties. The new jet nozzle is made of high-grade polymer and available in RAL white aluminium or pure white. The versatile jet nozzles create a comfortable climate in large internal spaces even under diverse temperature conditions. The new TJN jet nozzle also contains a so-called shape memory actuator. Shape memory alloys (SMA), also called memory metals, 'remember' their original shape and return to that pre-deformed shape when heated.

Adjustment with the very compact shape memory actuator, that has been specially developed for TROX, happens much faster than with conventional expansion materials. The swivel angle of the jet nozzle is automatically adjusted, and the comfort criteria in the occupied zone are ensured as a consequence. No electric actuator and no complicated cabling is required.

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Self-adjusting TJN variant with short response time due to actuator made of shape memory alloy.

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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