TROX® TECHNIK
The art of handling air

IAA 2003 - FRANKFURT (GERMANY)

Toepassingsgebied	Type
Beurzen	Referentie

Mercedes Benz presents 60 automobiles to the public on a surface of 12,100 square meters in three exhibition levels at the International Automobile Exhibition (IAA). For this occasion, the famous Frankfurt festival hall, which offers top conditions thanks to its unusual architecture, is to be transformed into a showroom with special flair. Under an impressive 30 meter high dome, there are two open intermediate floors, which are enticingly blocked off from the center of the hall by white lamella constructions.
The lamella constructions, with an overall length of 2640 meters, are equipped with 190,000 light diodes and are an impressive eyecatcher. In order to meet the requirements of this "atmospheric experience world", the use of TROX DUK type of long-range nozzles was necessary. They offer high acoustic comfort and a pleasing design.

Since the supply air has to bridge a large distance from the ductwork to the exhibition areas, air conditioning of the hall was implemented with TROX's DUK-V type of long-range nozzles. They offer a broad range of variant constructions and excellent functional adjustment to geometrical constraints. By means of a central air-conditioning plant, air is directed to the halls through the long-range nozzles, which possess adjustable outlet, into the exhibition area.
With variable temperature differences between supply air and room air, the supply air nozzle undergoes a diversion upward (with warm air) or a diversion downward (with cool air). The exhaust air has a centrally located intake. TROX long-range nozzles offer high acoustic comfort thanks to their carefully designed, aerodynamically favorable nozzle profile and also offer a modern, pleasing design.

Despite the already air-conditioned convention hall, individual air conditioning could still be created easily and cost-effectively after construction of the large, typical exhibition booth. The long-range nozzles, arranged by well-known designers and architects, underscore the special flair of the hall and ensure outstanding air conditioning.