TROX® TECHNIK
The art of handling air

QLV

- This displacement flow diffuser’s multi-cornered design is unique.
- It is available in a 90° model for corner installation, a 180° model for wall installation and a 360° model as a freestanding “column”.

PRODUCT DESCRIPTION

TROX displacement flow diffusers type QLV with their visually appealing polygon design are suitable for use in both industrial and comfort areas.

In contrast to the well-known principle of mixed air flow from ceiling or wall diffusers, displacement flow diffusers ensure that the air supply is introduced at low turbulence levels and a very low discharge velocity.

While the aim of mixed air flow is to achieve the highest possible induction, the principle of displacement flow ventilation is oriented toward achieving an air flow with the lowest possible induction. Depending on the activity level of the individuals in the occupied area, air can be supplied with a temperature difference of -1 to -6 K relative to the air in the room. Supply air in displacement flow ventilation spreads along the floor and is moved upward by the convection currents of heat sources (electrical equipment, machinery, people, etc.). The supply air thus inevitably finds a path to the heat source whose thermal load it is supposed to dissipate.

In displacement flow ventilation, the exhaust air diffusers should be placed at the top of the room. Regular distribution of displacement flow diffusers allows even large halls to be airconditioned affordably and without draughts.

Most air pollutants resulting from production processes are conveyed upward and extracted with the exhaust air.

Technology

90°; 180° and 360°

17 – 1,165 l/s
60 – 4,200 m^3/h
35 – 2,470 cfm

Spigot 160 – 630 mm
B: 240 – 750 mm
H: 500 – 1,750 mm