



Air outlet hatch open



Air outlet hatch closed

Fields of application

The hatches can be part of a smoke control concept for the extraction of smoke from individual or several areas in the building or can be used as pressure relief in CO₂ extinguishing systems.

The air outlet hatches can be used in the following applications:

- Pharmaceutical production, medical engineering
- Microelectronics and semiconductor industries
- Microsystems technologies, precision engineering
- Surface treatment technologies

General description

Cleanroom-compatible air outlet hatches on both sides with magnetic closure, pressure dampers and a spring-return-motor for opening the hatches integrated in a wall panel.

Attention: The air outlet hatch is not the same as a fire protection hatch, smoke and heat exhaust hatch, smoke extraction hatch or similar products. This hatch does not have any approvals for use with these products.

Functionality

In regular operation, the hatches are held closed on both sides with electric holding magnets. In case of fire, the currentless open magnets release the hatches. The spring return motor actuates an opener and allows the hatches to fall to the side at the same time. The pressure dampers on the inner sides control the opening and prevent the dampers from overshooting. The hatches open on both sides at an angle of almost 90 degrees.

Construction

The air outlet hatch is delivered to the construction site as a finished component, internally wired and with a 24 V power supply option. The air outlet hatch consists of a surrounding frame with two flap blades. For installation, the frame is divided into two parts, which are connected by screws, and is hooked into the wall construction from both sides with hook-in claws.

Calculation information

The cross-section of the opening area must be specified and adapted to the requirements of DIN EN 12101-2 by the respective specialist planner. The true dimensions (ordering dimensions) for the air outlet hatch are calculated on the base of the cross-section.

Special features

- minimum depth is 100 mm
- flush installation on both sides only possible in Multiclean LVT
- easy to use
- hidden construction in the frame
- ready-to-connect element with prefabricated individual wires for power supply and two auxiliary switches for determining the end position
- Suitable for clean rooms
- Controlled swinging open of the flaps by integrated pressure dampers

Dimensions

Order height range (external dimensions incl. frame construction)	min. 650 – max. 1100 mm
Order width range (external dimensions incl. frame construction)	min. 950 – max. 1196 mm
clear height	min. 412 – max. 862 mm
clear width	min. 812 – max. 1058 mm

Technical data air outlet hatch

Rated voltage	24V DC
Power supply	20 Watt
Cable length	Transfer point is specified depending on the order (usually on the clean room ceiling), free cable ends

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