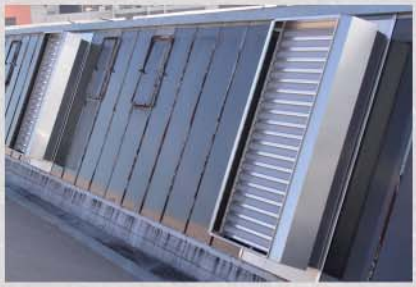
roda
Licht- und Lufttechnik GmbH

Information about MULTIJET

Large illustration: MULTIJET with polycarbonate louvre blades mounted in DELTALIGHT skylight system.

Stand-alone unit on a factory roof



MULTIJET mounted in a DELTALIGHT

On a gable roof ridge

Information about MULTIJET

The MULTIJET is an all-weather version of the SMOKEJET, the difference being the modified frame with lateral ventilation flaps (comparable with MEGAPHOENIX and MEGASTAR), which provide for good ventilation even in bad weather. The lateral flaps are also opened pneumatically or electrically as soon as the upper louvre blades close due to rain. The closing mechanism consists of two springs. The MULTIJET also serves as natural smoke and heat exhaust ventilator. It is the only officially approved multi-purpose ventilator for use not only on horizontal roofs, but also on inclined roofs such as Northlight roofs.

As is the case for all the other systems, the MULTIJET complies with DIN EN 12101-2 and VdS 2159 (depending on the specification). The EC declaration of conformity is delivered with the product.

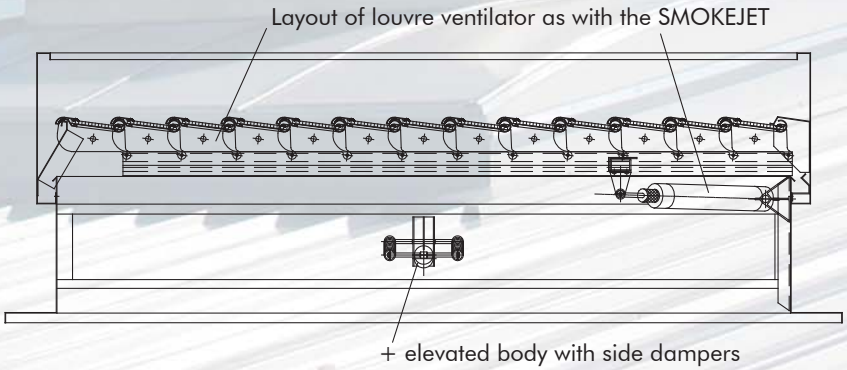
CE MPA - Geprüft nach: DIN EN 12101 - 2 Bauproduktengesetz 89 / 106 / EWG

Field of application:

- Flat roofs
- Arched skylights
- Northlight roofs

Design characteristics:

The MULTIJET is made up of an aluminium alloy frame (AlMg3) and a given number of pivoting aerodynamic louvre blades depending on the frame size. A choice of aluminium, glass and polycarbonate louvre blades is available. The louvres are opened and closed by an internal pneumatic cylinder or a servomotor. The louvre hinges are made of aluminium and pivot in UV-resistant nylon bushes. The internal side flaps ensure ventilation even in bad weather. They are opened by an additional pneumatic cylinder or servomotor and closed by two tension springs. EPDM seals reduce heat loss to a minimum. The units are mounted on the curb using tension locks or screw connections with sealing washers.



The MULTIJET is a louvred ventilator with a raised substructure and lateral ventilation flaps.

Sizes:

The MULTIJET can be produced in widths and defined lengths up to 1,926 x 2,966 mm. As is the case for the SMOKEJET, the lengths are determined by the louvre width of 133 mm. (Length = number of louvre blades x 133 mm + 40 mm for the frame).

MULTIJET

The MULTIJET is tested and certified for:

- Functional reliability up to Re 1000*
- Functional reliability at wind loads up to WL 3000 (3000 Pa)
- Functional reliability at snow loads up to SL 1500 (1500 N/m. / VdS-certification min. 500 N/m²)*
- Functional reliability at low ambient temperatures down to T(-15) (-15 °C)*
- Sound insulation levels according to our specifications
- Functional reliability up to heat-exposure rating of B 300-E (300 °C / fire-resistance rating E)*
- Tested by the Material Testing Authorities of North Rhine-Westphalia*
- Tested by other independent testing institutes*
- Approved by VdS*

* depending on system size and model

The MULTIJET is also tested for:

- Correct operation during fatigue testing (10,000 opening cycles)
- Aerodynamically efficient opening surface
- Corrosion and aging resistance

In the event of fire, the MULTIJET with pneumatic drives open:

- Automatically via a thermal priority valve connected to a CO_2 cartridge
- Via an emergency fire control unit with a CO_2 cartridge
- Via a fire alarm control unit triggered by smoke detectors or actuator buttons (optional)

In the event of fire a smoke-and-heat-extraction-system control cabinet with backup batteries actuates the 24 V versions with servomotors:

- Via smoke detectors or actuator buttons
- Via an intermediate fire alarm control unit (both systems optional)

thermal priority valve connected to a CO_2 cartridge

Triggering for everyday ventilation

via the building's compressed-air network, a ventilation control cabinet (pneumatic control), or a smoke-and-heat-extraction-system control cabinet (24 V servomotors):

- Ventilation control cabinet
- Actuator buttons (only outer flaps open | only inner flaps open | all flaps closed)
- Timer for night cooling (optional)
- Wind and rain sensors for protection against bad weather (optional)

MPA NRW. Materialprüfungsamt Nordrhein-Westfalen geprüft + überwacht Nr.: 210004512

VdS •ISO 9001 •anerkannte Produkte •anerkannte Systeme

RAL GÜTEZEICHEN

RAUCH- UND WÄRMEABZUGSANLAGEN RAL Gütezeichen MONTAGE UND WARTUNG