
THE PRODUCT

Aerox is suited for highly efficient natural ventilation and smoke control in all weathers. It has labyrinthine louvre blades that provide both continuous, rainproof ventilation. Each louvre blade is fitted with a rain channel that directs water to the side rain channels and thence onto the roof. It is lightweight, simple to maintain and install, and has a wide variety of ventilator options. The ventilator is suitable for day to day and smoke control natural extract ventilation. It has been tested and certified as a smoke ventilator to EN 12101-2 and is CE marked.

APPLICATIONS

Aerox is particularly suitable for use in heat-intensive and noisy industrial buildings.

FEATURES AND BENEFITS

Aerox can cool down buildings which have high heat loads. It is rain proof, can be fitted with sound attenuators, and it has an attractive price. Three different shutter blade positions enable optimum all weather ventilation. Any rain droplets that come in past the shutter blades are collected within the ventilator and discharged to the outside. To improve its aerodynamic efficiency, a wind baffle can optionally be fitted on four sides of the unit.

For technical details please see the next page.



KEY FEATURES

All weather ventilation

Aerox is adaptable to the prevailing weather conditions.

Three shutter opening positions

0°, 45° and 97°.

High aerodynamic efficiency for day to day ventilation

For shutter opening angle of 45°: Cvo = 0.41 (coefficient measured without a side wind), Cvw = from 0.53 up to 0.80 (measured with a side wind). For shutter opening angle of 97°: Cvo = 0.53, Cvw = from 0.71 up to 0.95.

High aerodynamic efficiency for smoke control measured according to EN 12101-2

Cv = From 0.49 up to 0.54.

Great value for money

Achieved through its high efficiency.

EN 12101-2 certification

Tested and CE marked.

Acoustic attenuation

Aerox can optionally be equipped with sound baffles.

Removable side panels

To enable access for easy cleaning of the louvres.

PRODUCT DESCRIPTION

Aerox can cool down those buildings which have high heat loads. It is rain proof can be fitted with sound attenuators, and it has an attractive price.

The shutter blades of many conventional roof ventilators can only be set to "open" or "closed". By contrast, with Aerox three different shutter blade positions enable optimum all weather ventilation. This is good for the internal environment as well as for optimising the airflow.

When the weather is changeable or rainy, Aerox does not have to "batten down the hatches". It can remain open without risk of rain entry, because in this instance the shutter blades are moved to an opening angle of 45°. To ensure that no rain can enter the building, there is an elaborate system of louvres within the unit. Any droplets that come in past the shutter blades are collected and discharged to the outside.

Any ventilator's aerodynamic performance can be expressed as a coefficient and is determined by the ventilator size and whether there is a side wind. In the case of Aerox this lies between 0.41 and 0.8 when the ventilator is in its 45° rainproof open position for day to day ventilation, and between 0.53 to 0.95 when the ventilator is in its 97° fully open position.

Alternatively, when tested and measured in accordance with EN 12101-2, the smoke control standard, the ventilator achieves values for the Cv (aerodynamic coefficient) of between 0.49 and 0.54 when the ventilator is in its 97° fully open position when used for smoke control.

The wind suction tests demonstrate that it can resist wind pressures of up to 1500N/m². Aerox can be equipped with sound baffles on request.

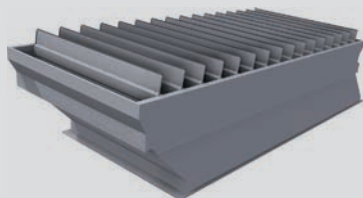
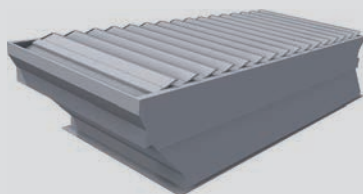
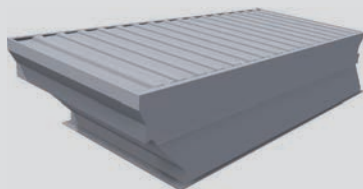
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Aerox is controlled either manually or automatically either via an automatic weather station (with a rain and /or a wind sensor) or via the building management system. The unit can be closed so that the building cannot suffer unnecessary energy losses when the plant is not in operation.

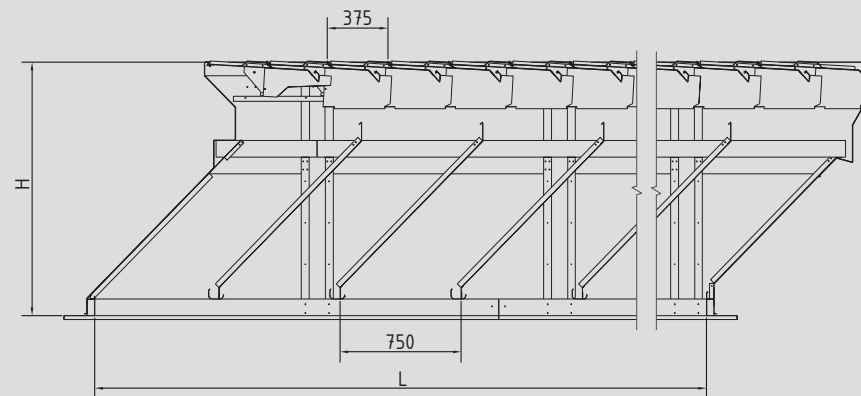
Aerox has been tested and certified to EN 12101-2 and is CE marked.

FURTHER TECHNICAL DETAILS

- Widths (W) from 1000 mm to 3000 mm
- Lengths (L) from 3000 mm to infinity in 750 mm increments
- Height (H) when closed = 1535 mm
- Snow load test to 1500 N/m²
- Wind suction load test to 1500 N/m²
- Optional sound absorbers
- Either electric or pneumatic controls
- Removable side panels allow easy cleaning
- Can be polyester powder coated
- For smaller sizes Aerox can be completely assembled at the factory.

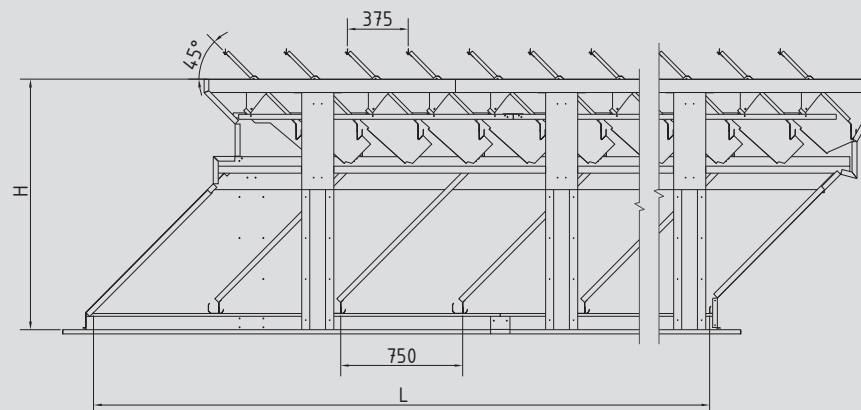


0° POSITION (CLOSED)



45° POSITION

OPTIMISED FOR RAIN DEFENCE AND AERODYNAMIC PERFORMANCE



97° POSITION

COMPLETELY OPEN, OPTIMISED FOR MAXIMUM AERODYNAMIC PERFORMANCE IN GOOD WEATHER AS WELL AS FOR EFFICIENT SMOKE CONTROL

