LABY

Labyrinth natural ventilator

The LABY natural ventilation system is the ideal solution for high-performance ventilation in hot and noisy industrial environments. It is used wherever large volumes of air need to be exhausted in a rain-protected manner and without any energy consumption. In addition, the LABY can meet additional noise control requirements when needed. The LABY utilizes the pressure and temperature differences caused by thermal loads inside the building to ensure natural and efficient ventilation. With the LABY, you choose a robust and powerful ventilation solution specifically developed for the demanding conditions of heavy industry.

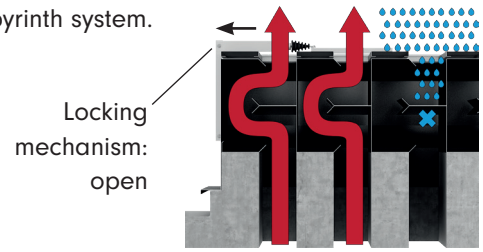
Typical Applications

The LABY is particularly suitable for use in heavy industries such as steel plants, foundries, and power stations. It provides reliable ventilation for environments with high temperatures, significant noise exposure, and strict acoustic requirements. It is also used in other industrial areas that require energy-efficient, rain-protected, and high-performance ventilation.

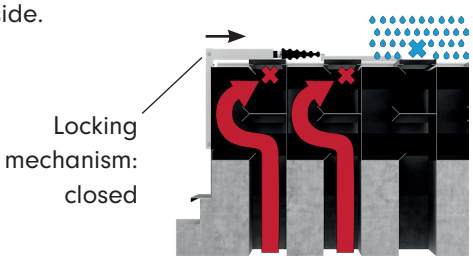
Dimensions:
Max. width: 3,800 mm
Length: any desired dimension

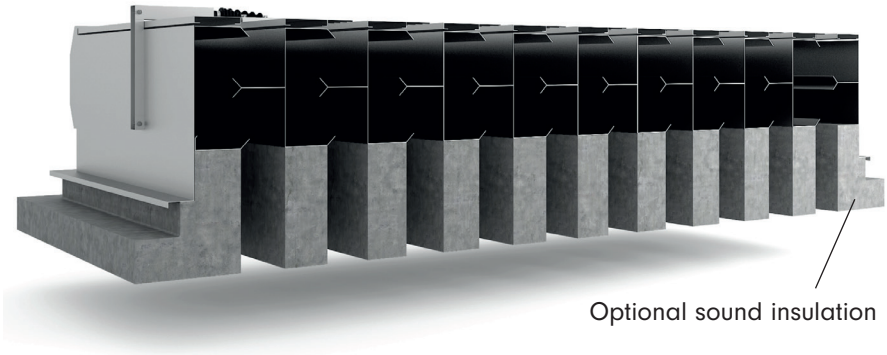
Optional locking mechanism:
Unit height: 700 – 1,480 mm
Base height: 200 – 980 mm

In the open position, warm exhaust air can escape through convection, while rain cannot penetrate the labyrinth system.



In the closed position, no heat can escape to the outside, and rain cannot penetrate from outside.





Austria
ATTRIA GmbH
ATTRIA production GmbH
Gewerbepark Mitterfeld 7
2523 Tattendorf
AUSTRIA
+43 2254 73734
office@attria-group.com

Germany
ATTRIA GmbH
Am Dorfplatz 1
86489 Deisenhausen
GERMANY
+49 8282 6209180
office@attria-group.de

Southeast Europe
ATTRIA production GmbH
9th of September dist.
Promishlena zona
2227 Bojurishte
BULGARIA
+359 878 550076
office.bg@attria-group.com

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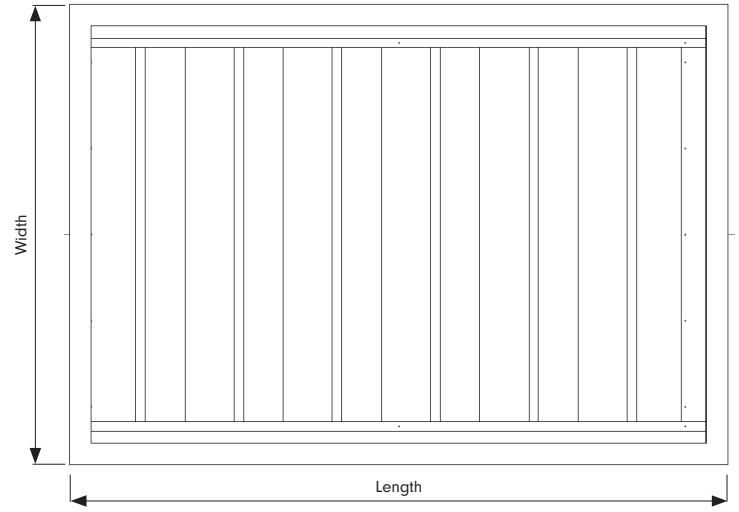
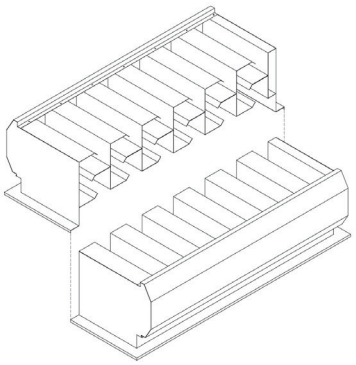


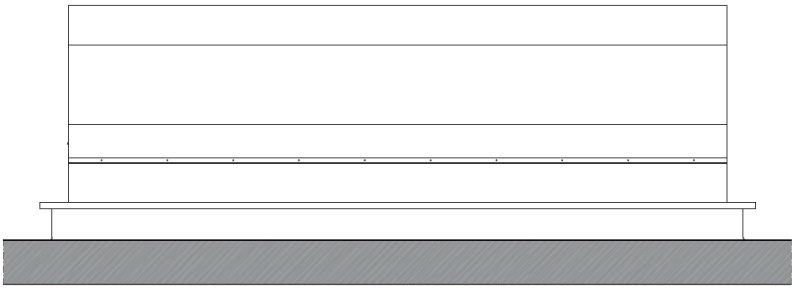
	Length	Width	Height	Base
min.	-	-	700 mm	200 mm(1)
max.	unlimited	3.800 mm	1.480 mm	1.000 mm

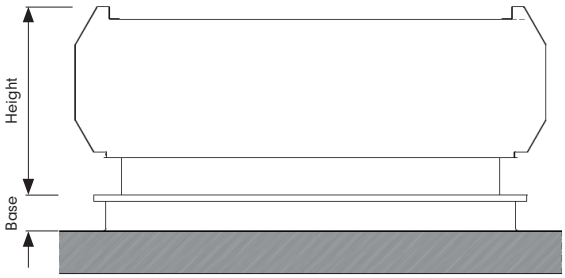
1.) A base height of 200 mm is not suitable for the use of optional baffle silencers.



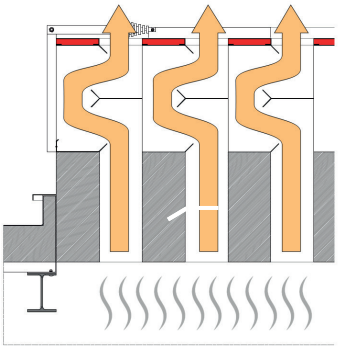
Labyrinth system
The aerodynamically effective louvre design with raised edges allows for continuous, weather-protected ventilation.

Water that collects in the louvres is gathered in drainage channels and discharged onto the roof.

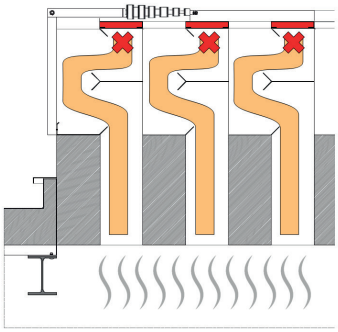




Lock open



Lock closed

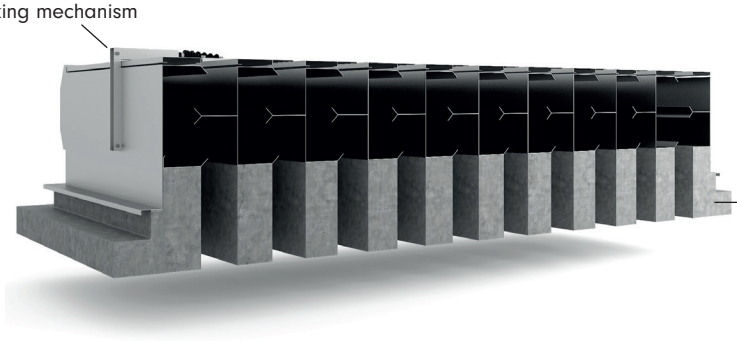


Optional locking mechanism

The fan is made of aluminium (AlMg3) as standard. An additional locking mechanism (optionally available with sealing brushes) prevents unnecessary energy losses during idle periods. The locking mechanism, equipped with rollers that glide in guide rails, can be operated electrically or pneumatically.

- Saves energy during idle periods in the ventilated area.
- Electrically or pneumatically operated.

Locking mechanism



Optional noise protection

Additional baffle silencers can be installed in an elevated base if high noise levels during production processes make this necessary.

The baffles are located beneath the structure. Their frames are made of galvanized sheet steel, and the sound-absorbing material is moisture-resistant and abrasion-proof. The fan can be supplied with an empty housing, allowing for later retrofitting with baffle silencers.

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