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PRODUCT DESCRIPTION
The Labyrinth is a lightweight natural ventilator designed for industries with a moderate to high heat load. It has aerodynamically designed louvers & baffles to provide continuous weatherproof ventilation. Rainwater is collected within the ventilator and drained away via side channels to keep the opening free from water entry. Its aluminum construction and low-profile design reduce loading impact to the building. Additionally, its compact design makes it suitable for ridge mount, slope mount, or flat roof mounting conditions.

STANDARD FEATURES
• Aluminum Construction
• Lightweight
• Low profile
• Assemble In-Place
• Shipped Knocked Down

OPTIONAL FEATURES
• Paint to color match in various material coatings
• Optional materials of construction available
• Bird Screen
• Damper
• Custom assembly & hoisting configurations

PRODUCT BENEFITS
• Continuous weatherproof ventilation, guarantees proper performance and weather tightness.
• Low-profile and low wind-load
• Minimal impact to building, limited structural work necessary
• Uses no energy
• Requires no maintenance
• Zero operational cost
• Silent operation
• Long life span
• Architecturally pleasing

INDUSTRY APPLICATIONS
• Aluminum industry
• Automotive Plants
• Brick & Tile
• Foundries & Forging
• Glass & Glass Products
• Heavy Manufacturing
• Paper Stock
• Paperboard products
• Process industry
• Power stations
• Rolling mills
• Specialty Chemicals
• Storage area
• Steel industry
• Welding facilities
• Warehouses
• Waste incinerators
• + Others

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<tr>
<th>Model</th>
<th>Throat Width</th>
<th>Vent Length</th>
<th>Weight (lb/ft²)</th>
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<tr>
<td>LBY-10</td>
<td>10'-6”</td>
<td>10’ – 1,000’+</td>
<td>3.5 lbs/ft² to 4.5 lbs/ft²</td>
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Labyrinth is manufactured under license from Colt International Licensing Ltd, United Kingdom
Labyrinth Mounting Details

PLAN VIEW

SECTION “A-A”

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<tr>
<th>MARK</th>
<th>NUMBER OF RUNS</th>
<th>(A) VENT WIDTH</th>
<th>(B) VENT LENGTH</th>
<th>MOUNTING CONDITION (Flat, Slope or Ridge)</th>
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FEATURES
CONSTRUCTION: ALUMINUM, MILL FINISH
COUNTER FLASHING: ALUMINUM, OPTIONAL
SUPPORT BASE: ALUMINUM, INCLUDED
**Labyrinth Natural Ventilator**

## Labyrinth Mounting Details - Double Width

**Plan View**

**Section "A-A"**

<table>
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<th>MARK</th>
<th>NUMBER OF RUNS</th>
<th>(A) VENT WIDTH</th>
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**FEATURES**

CONSTRUCTION: ALUMINUM, MILL FINISH  
COUNTER FLASHING: ALUMINUM, OPTIONAL  
SUPPORT BASE: ALUMINUM, INCLUDED
Labyrinth Mounting Configurations

The Labyrinth can be installed directly onto the roof with the standard base support or onto a custom curb to accommodate membrane roofs or extreme roof slopes. It can also be installed onto flat roofs, sloped roofs, pitched roofs, and more.

Labyrinth installed downslope, blades parallel to peak.

Labyrinth installed at peak, blades perpendicular to peak.

Labyrinth installed onto curb on membrane roof.
Labyrinth Air Flow & Drainage Diagram

Labyrinth is a natural ventilation unit, developed to provide continuous, rainproof ventilation. The base of the unit houses a system of louvers that have been fitted such that the ‘Labyrinth channels’ are formed to catch the rainwater. The rainwater then drains to the roof via two channels.

Labyrinth is tested up to 7.87 in of rain per hour, with drainage systems in place every 14.56 in. Labyrinth helps ensure that the hot air goes out, the cool air comes in and the rain stays away.
Labyrinth Natural Light

An added benefit of installing the Labyrinth for natural ventilation is that it is also a highly effective natural light source.

Light from a non-Labyrinth unit
BEFORE

Light from a Labyrinth unit
AFTER
Labyrinth Assembly - Roof or Ground

Due to the lightweight construction and relative quickness of assembly the Labyrinth can be assembled either in place on a roof or on the ground and later hoisted up.

Ground assembly followed by lifting and roof installation

Labyrinth assembled directly on the roof of the facility