

# *MatrixVent™* Natural Ventilator

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 **Moffitt**  
NATURAL VENTILATION SOLUTIONS

# MatrixVent™ Natural Ventilator

## MatrixVent Product Details

### PRODUCT DESCRIPTION

The MatrixVent is a low-profile, low wind-load, natural ventilator. 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. The MatrixVent ventilator is designed for industries with a moderate to high heat load.



### STANDARD FEATURES

- Aluminum construction
- Lightweight
- Low profile
- Assemble in-place
- Compact shipping
- Integrates into standing seam roofs
- 100% self-supported

### OPTIONAL FEATURES

- Paint to color match in various material coatings
- Optional materials of construction available
- Bird screen
- Damper (manual or motorized)
- Ships fully assembled

### PRODUCT BENEFITS

- Continuous weatherproof ventilation guarantees proper performance and weather tightness.
- Wind improves efficiency. Efficiency is not affected by the direction or velocity of the wind.
- Low-profile and low wind-load. Minimal impact to building, limited structural work necessary.
- Zero operational cost as it uses no energy.
- Reflects sunlight for additional natural daylighting.
- Requires no maintenance, has a naturally long-life span.
- Architecturally pleasing.
- Silent operation.

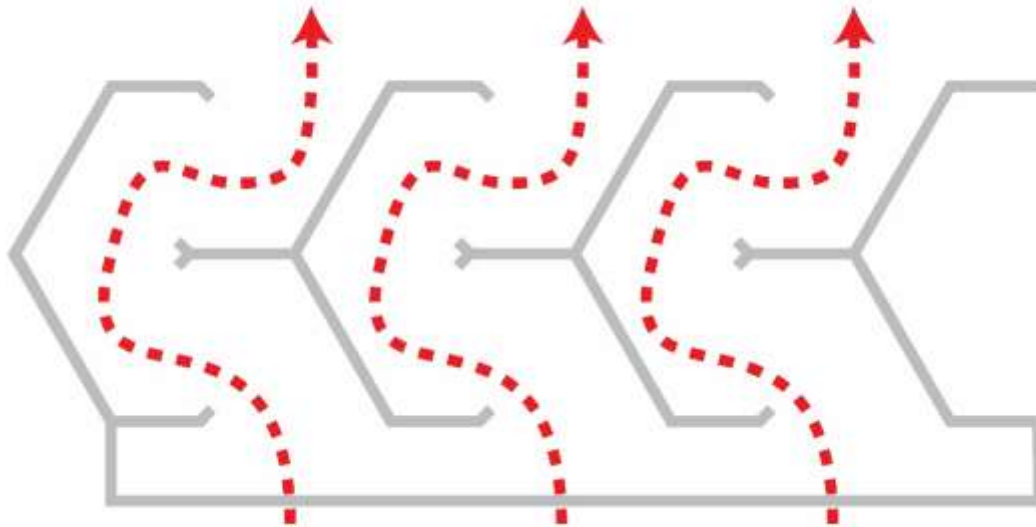
### INDUSTRY APPLICATIONS

- 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

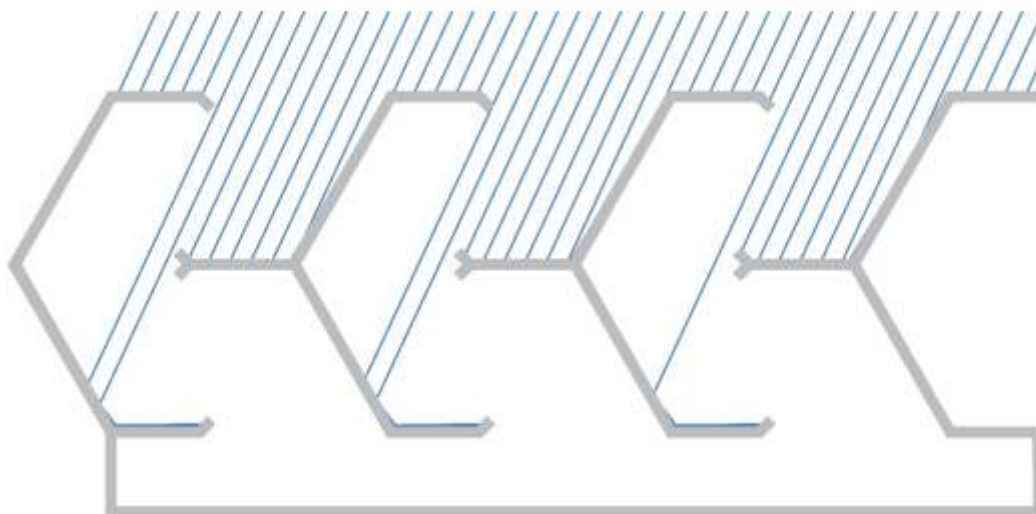
Model	Throat Width	Vent Length	Height	Weight
MTX	10'-0"	variable	36"	3.5 lbs/ft <sup>2</sup> (without damper) (7.75 lbs/ft <sup>2</sup> with damper)

## MatrixVent Air Flow & Drainage Diagram

MatrixVent 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 channels are formed to catch the rainwater. The rainwater then drains to the roof via two channels.



Warm air rises through the unit moving around the ventilator blades.



Water collects in the vent blades and drains out the sides onto the building roof.

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## MatrixVent Mounting & Assembly

MatrixVent units can be installed onto virtually any roof. That, along with their light weight, are part of what make them the ideal retrofit ventilation solution.

Each vent can be installed onto a standard base support or a custom curb. They can be installed on flat roofs, sloped roofs, and pitched roofs. Furthermore, MatrixVent ventilators can be assembled in place on the roof or assembled on the ground (or at the factory) and hoisted into place.



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## MatrixVent Natural Light

The MatrixVent also functions as a fantastic natural daylighting device. The aluminum material reflects sunlight into the space below to promote a brighter and happier work environment.

