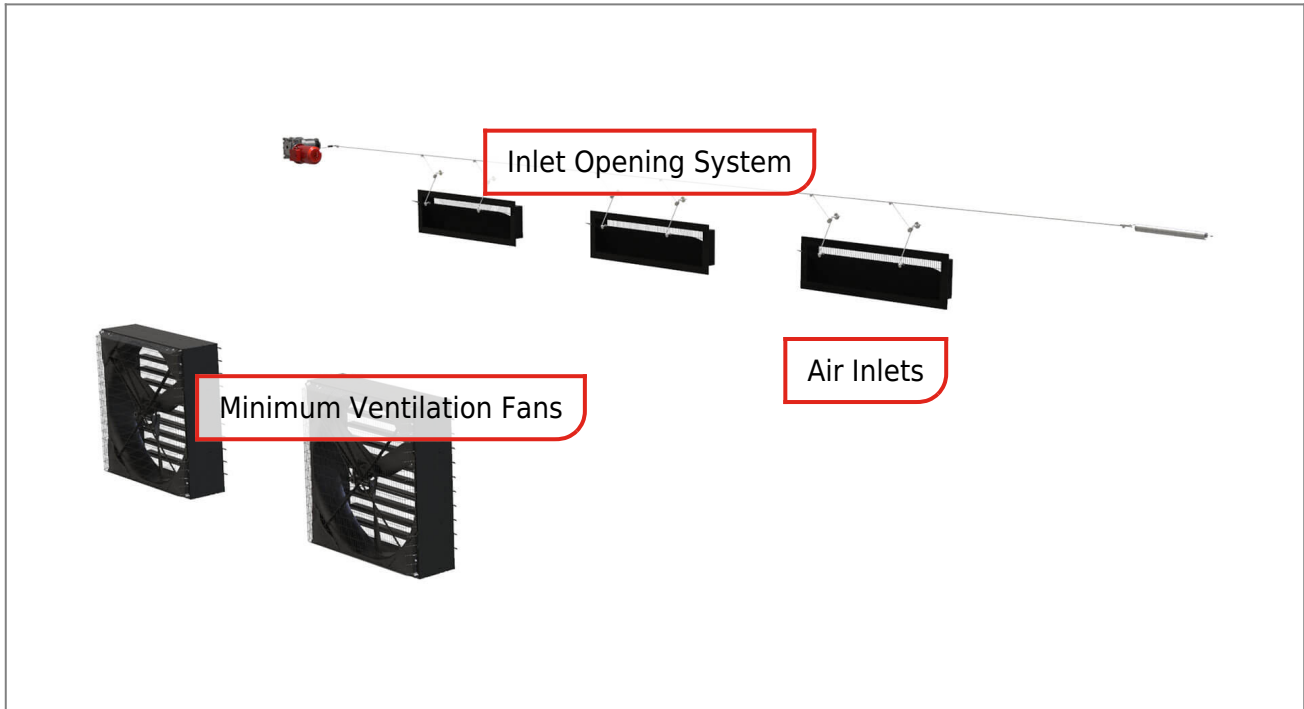


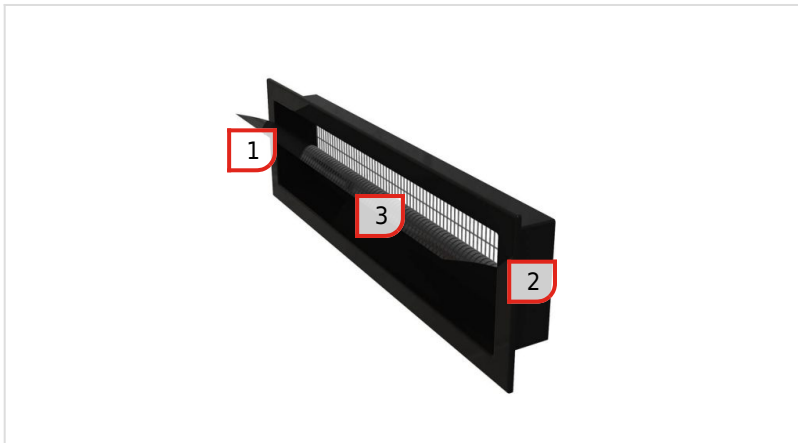
# MINIMUM VENTILATION

<https://solutions.plassonlivestock.com/system/ventilation/>



## OVERVIEW

Plasson's minimum ventilation system preserves indoor air quality by performing indoor-outdoor air exchange at the optimal rate. The system is controlled by the house controller, which automatically opens and closes air inlets and adjusts fan capacity levels to create the required negative air pressure in the house based on factors such as outside air temperature, bird age, and air quality.



## AIR INLETS

Positioned along the chicken house walls to allow outside air to flow into the house. The air inlets are made of black plastic and offer excellent insulation when closed, Plasson's winged air inlets are available in air exchange rate capacities of 2000 and 3000 m<sup>3</sup>/hr.

### 1 Inlet wing

The wing-shaped flap is designed to ensure incoming air flows to the center of the house

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### 2 Inlet frame

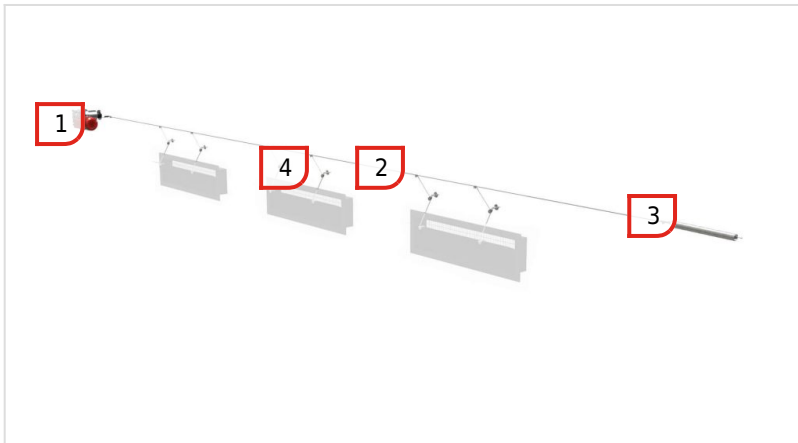
Made of black plastic, the frame holds all inlets components and comes ready for installation

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### 3 Back grill

Prevents the entrance of unwanted insects and animals into the chicken house

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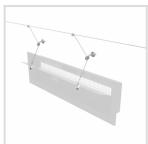
## INLET OPENING SYSTEM

Controlled by the house controller, the opening system guarantees inlets are at the precise position needed to achieve the air exchange parameters set by the grower



### 1 Gear motor

Uses a belt to connect to the stainless steel rod and rotate it according to the house controller commands for opening and closing the inlets



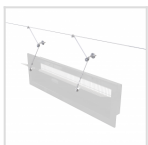
### 2 Rod

A stainless steel rod 3.0 mm in diameter runs along the house wall and connects between the motor and the inlets using nylon cords and pulleys



### 3 Counter spring

Connected with a wall anchor to the wall opposite the gear motor. The spring attaches to the metal rod and ensures...



### 4 Nylon cord and pulley

Nylon cords connect the stainless steel rod to the inlet wing using pulleys to ensure smooth opening and closing of the wing



## MINIMUM VENTILATION FANS

Controlled by the house controller, exhaust fans (generally of size 36-50") create the required negative pressure inside the chicken house

### 1 **Blades**

Made of durable plastic, the blades are designed to evacuate air from the house with maximum efficiency

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### 2 **Motor**

Various sizes and models ensure smooth and efficient fan operation. Options such as belt drive, direct drive, variable speed, and more are available. Fans supplied by Plasson focus on efficiency and energy-saving solution.

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### 3 **Box frame**

Made of galvanized steel, the box supports all of the fan's components

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