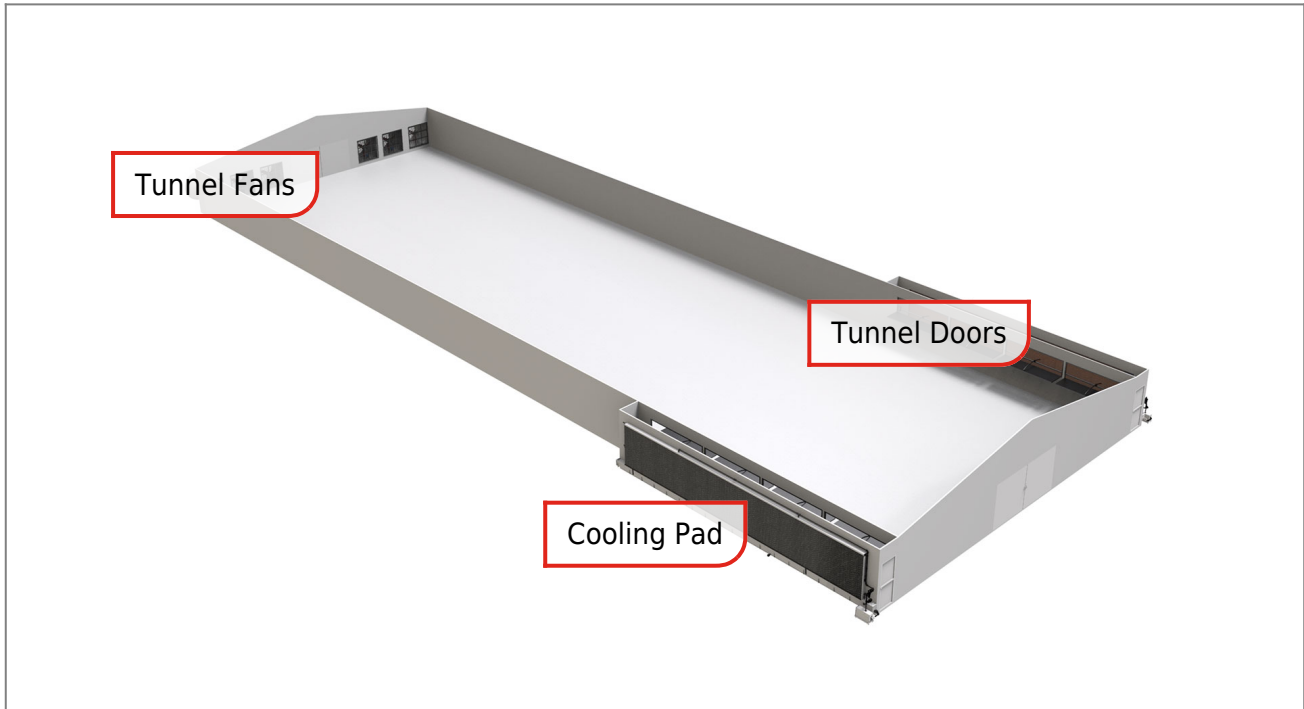


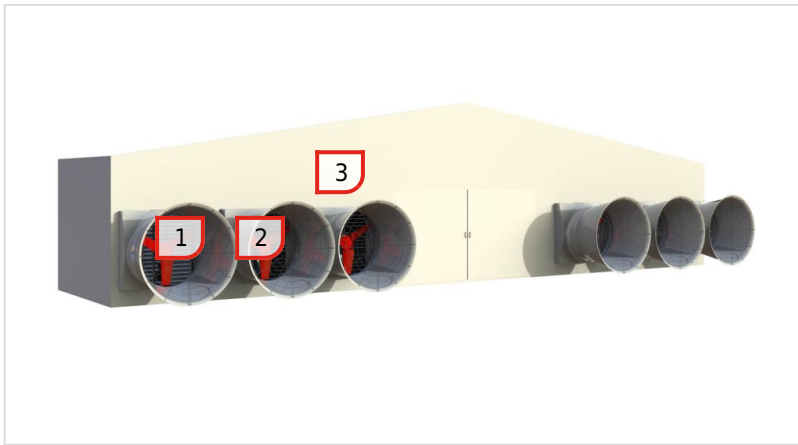
TUNNEL VENTILATION

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



OVERVIEW

Plasson's tunnel ventilation system offers a controlled method to achieve the required air flow and speed along the length of the house, thus creating a wind-chill effect which cools the chickens. Control of the system is done automatically according to climatic parameters, such as temperature and humidity, set by the grower.



TUNNEL FANS

The fans are available in various models, sizes, and configurations with the following options: belts, direct drives, variable speed motors, cones, shutters, and more.

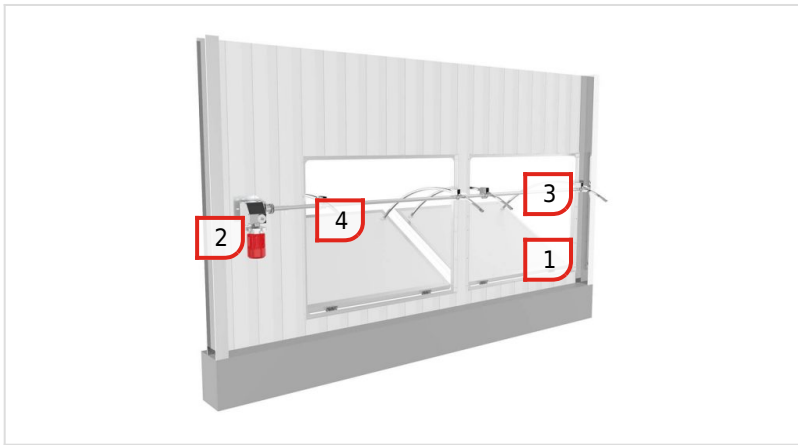


1 Motor



2 Blades

3 Housing



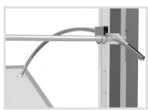
TUNNEL DOORS

Outside air flows into the house through tunnel doors, due to negative pressure created by the exhaust fans. The tunnel doors direct the incoming air upwards, enabling evacuation of the hot air trapped at the house ceiling. Doors are installed with rubber seals to form an air-tight insulation when they are closed. The doors open via the use of a motor and rack & pinion sets.

1 Doors and frames

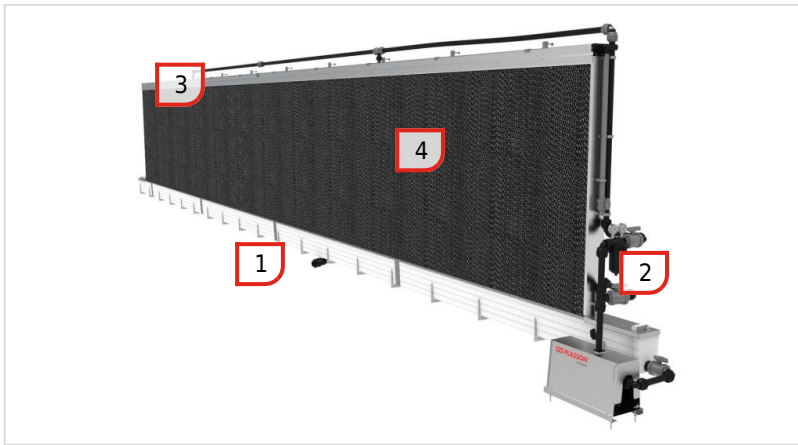


2 Gear motor



3 Rack and pinion sets

4 Rolling pipe



COOLING PAD

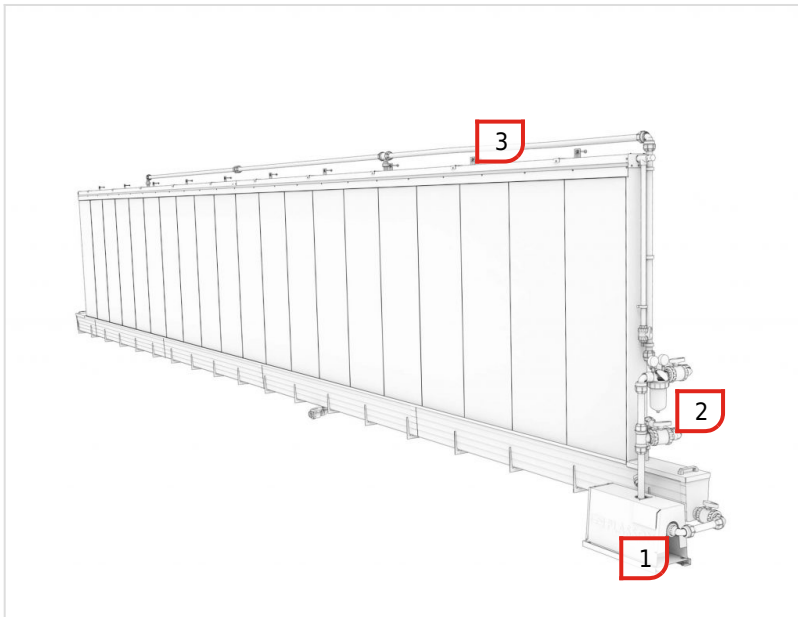
Plasson's cooling pad system cools the air temperature inside the chicken house. Outside air moistens and cools as it flows through wet cooling pads, thus reducing the house temperature during periods of high heat. The system performs optimally in hot and dry climates, but can be successfully implemented in other climatic conditions as well. Cooling pads are constructed of a specially formulated paper impregnated with insoluble resin, achieving maximum evaporative efficiency while reducing air flow restriction. The paper pads come in a variety of angles which can be chosen to fit the project's requirements. A black coating layer on the external side of the pad protects the cellulose paper, thus maintaining system efficiency and enabling a longer pad life span.

1 Reservoir channel

2 Water distribution

3 Top cover

4 Paper pads



COOLING PAD - WATER DISTRIBUTION

A pump pumps water from a reservoir through a water filter, ensuring the cooling pads remain free of water pollutants. A Siliphos water softener system may be installed in areas where hard water treatment is required. Distribution pads located above the cooling pads ensure water is evenly distributed across all pads.



1 Pump



2 Water filter



3 Distribution pipes