

Poultry

Project description

An extensive research of multiple months has been conducted to test the possible fine dust reduction in an extreme environment such as a poultry house. The broiler house has a volume of 2400 m³ and there are 13,000 broilers in this broiler house. There have been three test cycles of 40 days each. The test cycle started with the delivery of the new broilers in the barn and ended when the broiler chickens were removed from the barn. In the barn there was an average fine dust supply of approximately 2000µg/m³ and an airflow of 1m/s.



Application

A total of 6 Pamaressen have been installed in the ridge of the barn. These Pamaressen are attached to the ceiling in the middle of the stable at the highest point. The 6 Pamaressen have been installed proportionately in the length of the barn. The total energy consumption of these systems was 108 watts.

Resultaten

With a TSI DustTrak fine dust sensor, an average of 50% particulate matter reduction was measured in the poultry house. In addition, since the installation of the Pamaressen several times a higher weight of the broiler chickens has been detected at the end of the production round. This phenomenon is being investigated further at this time.

