

Odor and Emission Control (Misting Poultry Farm)

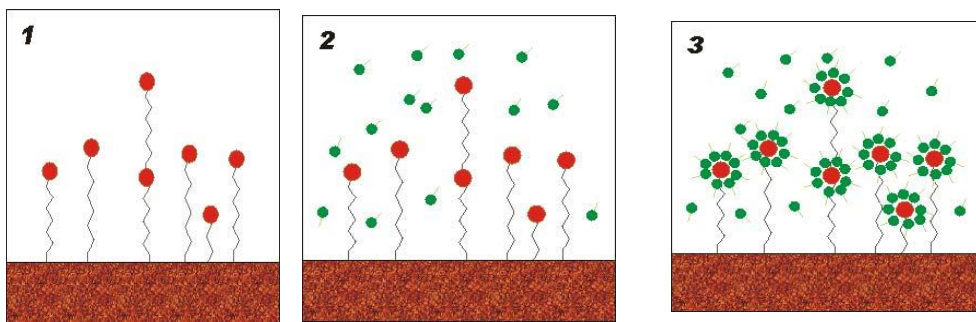
Introduction

Unpleasant odors are an inherent part of poultry production. They come from the wastes and emissions of animals. In addition, poultry farms in close proximity to the population generate volatile organic compounds (VOCs) in the air, resulting in a foul odor similar to that of rotten eggs and waste. Moreover, odor nuisance from poultry farms has raised serious concerns about the quality of human life worldwide. Unpleasant smelling air affects the mental and physical health of the population and causes anger. Similarly, the health of hens and farm workers can be threatened by the malodorous chemical compounds (such as hydrogen sulfide and ammonia) emanating from poultry farms.



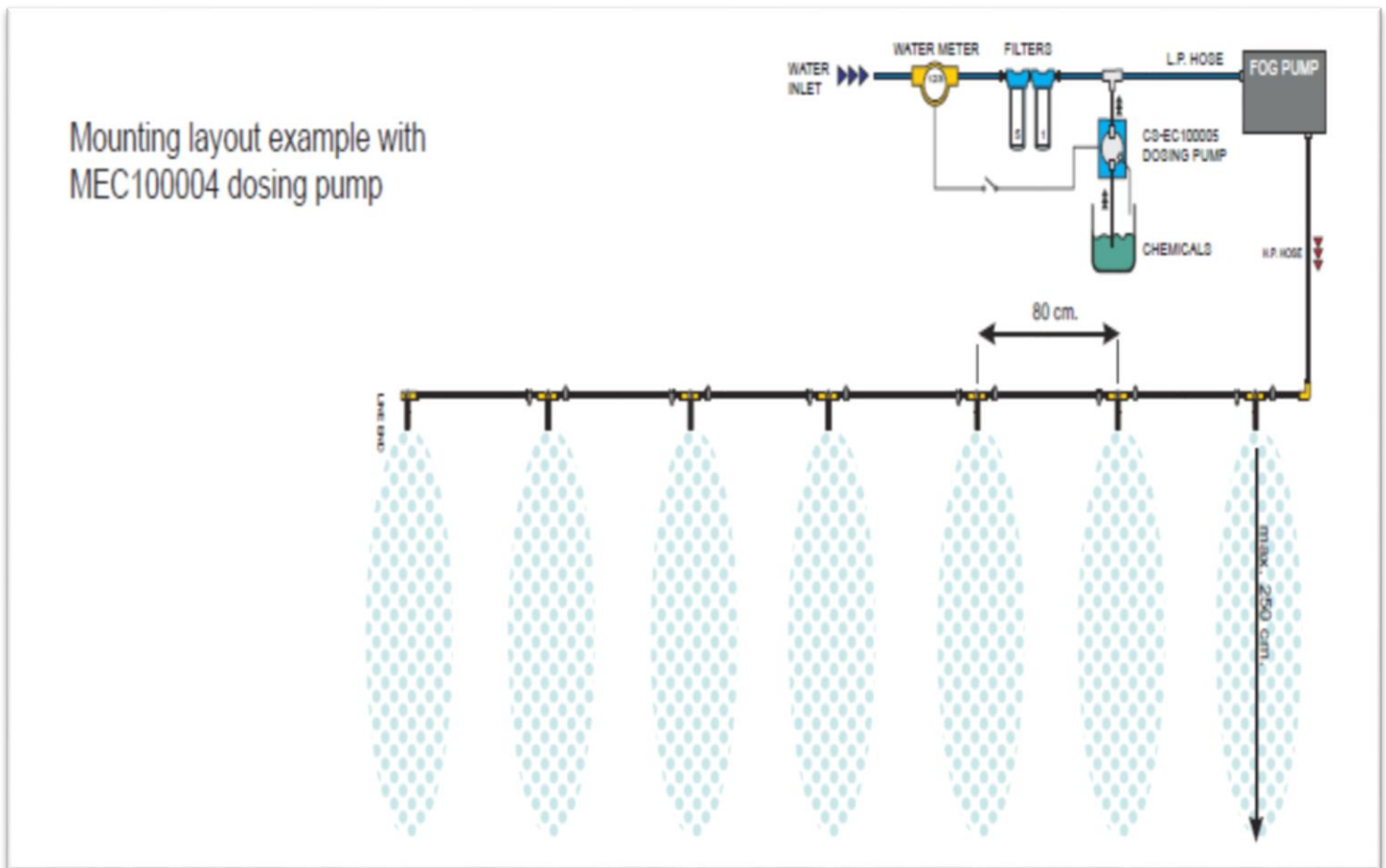
Odor Control Misting Systems

The misting system can help prevent heat stress and improve air quality by reducing dust, ammonia levels, and odors. This system can also help to control the growth of harmful bacteria and diseases by maintaining a consistent temperature and humidity level within the poultry house.



1. Environmental odors as a result of chemical or biological processes.

2. Millions of ultra thin water droplets are atomized in the environment.
3. Valens product droplets gather around the gas odor, eliminating it.



Valens product

- **Valens product** is considered a powerful and effective product that works to break down organic waste and remove odor-causing compounds from the source, most notably ammonia and hydrogen sulfide. It works efficiently in two forms (gaseous and substrate) in reducing volatile organic compounds (VOCs) and its results appear within minutes.
- **Valens product** does not mask odor, it rapidly accelerates the achievement of complete decomposition by denaturing odor compounds into inert, odor-free end products.
- **Valens product** can be applied via a high pressure low volume atomized mist into an odorous airstream or into a volume of air.

Solution

Valens Company is a pioneer in the field of treating **Odor and Emission Control (Poultry Farm)**. In implementing its solutions, it relies on advanced, promising, fast, and well-established technology. It does not limit itself to mask odor but it completely eliminates it from its source. It builds in its solutions on emphasizing data, the human mind, the modernity of the machine, and alternatives to materials, and through the integration of processes, magnificent results and brilliant outputs are achieved.

Application Dosage

- 1 kg per 1,000 m²

Application Method

1. Place **Valens product** into Filter Bag and suspend in water reservoir at 1,000ppm (1kg into 1,000L).
2. Allow 30 minutes for activation.
3. Ensure adequate inline filtration to avoid blockage of nozzles.
4. Apply solution at 5-10ppm (5-10 gm/m³) of air volume to be treated.
5. Apply continuously or as required.
6. Replace **Valens product** in reservoir every 48 hours or as required to maintain dosage at 1,000ppm.

Benefits of Valens product:

- Eliminates odors instead of mask them.
- Reduces ammonia by up to 80%.
- Reduces volatile organic compounds by up to 90%.
- Accelerates the process of converting waste and carcass composting by up to 30%.
- Promotes healthier litter/bedding.
- Reduces fly numbers by removing attractive organic materials.
- Accelerates the achievement of complete decomposition by denaturing odor compounds into inert, odor-free end products.

Contact

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