

DrySist: Truck Dry Disinfection

Point of production: Finishing
Country of origin: Spain



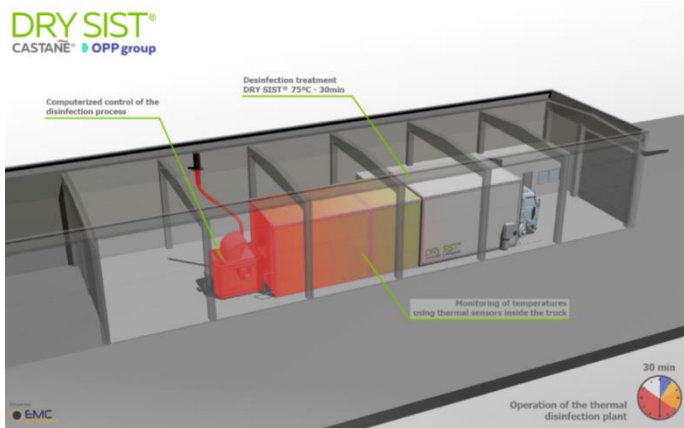
The challenge was to improve the biosecurity against ASF and other pathogens (PRRS, Salmonella, E.coli and Swine Dysentery) at the moment of animal transportation. Focusing the biosecurity concept exclusively inside the farm is a mistake, because truck movements are one of the most important sources of risk of disease entry for farms.

The solution – Best practice

The company implemented a truck thermo-assisted disinfection system called DrySist. The process divides the disinfection in 3 different parts: trailer, wheels and chassis and cabin. The process takes place inside an expandable tunnel: cabin of the truck is manually disinfected following the PED disinfection protocol; lower part of the truck is disinfected from the beginning of the process to produce a high penetration effect. The system is connected to the truck and pumps hot air into the container until it reaches 75 °C for 15 minutes. The whole process takes about 30 minutes and is electronically certified. The certificate can be received remotely in real time.

Points to consider and additional information

By increasing biosecurity, the entry of diseases (digestive and respiratory) on farms is reduced, and therefore, the use of antibiotics is also reduced. Once the disinfection system is implemented, the farm's disease reinfection cycle is broadened from 1.5 years to 3 years, approximately. Finally, the farm productivity (less diseases and mortality) and the meat quality (food safety) are improved. Investment on innovative biosecurity systems which reduce the use of water and time spent by personnel, has obvious benefits on increasing biosecurity, and therefore, reducing the risk of disease outbreaks.



Cost/Benefit analysis

Costs:

- Electricity consumed: 8-10kW/h
- Diesel consumed: 30L/h
- Propane consumed: 37Kg/h

Benefits:

- Reduction in veterinary costs
- Exclusion of harmful pathogens such as ASF

Further research & Project links
<https://eupig.eu/>
 Link to technical report
 Video – DrySist Thermal Decontamination
 Video – DrySist ‘The Missing Link in Biosecurity’
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