

Aerox-Injector Animal feed



Your problem

The animal feed industry has its roots in the way traditional millers grinded the grains centuries ago, using (wooden) windmills. Nowadays feed is produced for chickens and other poultry, as well as for cattle, pigs and horses. There is a wide variety of feed and grains produced, with different raw materials (nutrients) applied in several compositions.

In this modern era electric driven pellet mills are applied and grains are cooled mainly in counterflow coolers. To remove dust from the used cooling air usually a baghouse filter is being used which can meet the current severe dust emission standards. After this the air eventually will be blown outside. Especially the cooling air of poultry feed and pig feed production should be deodorized to prevent complaints.

Initially the animal feed industry built higher chimneys as a measure against odour nuisance. This did not always solve the problems sufficiently, especially because the tonnages of feed per factory (per location) were increasing significantly.

Our solution

A factory usually has multiple pellet lines in service with about 15,000 to 25,000 m³/h of cooling air per line. Aerox has developed specific solutions for this industry.

On the one hand a compact Aerox-Injector can be installed per pellet line. On the other hand, airflows of different production lines can be joined together and can be treated with one compact Aerox-Injector. In practice, this can be added up to 4 lines with a total airflow of up to 90,000 m³/h.

Since the Aerox-Injector can run on different capacities unnecessary power consumption is prevented when not all pellet lines are in service. This benefits the environment and reduces operational costs.



LEADING IN ODOUR CONTROL



Rothkötter Germany

One of our first Aerox-Injector clients recently purchased two Aerox units for a brand new factory. The company's decision to invest in odour abatement technology was 'image driven' – its owners are keen to build a good relationship with the local population.

We first supplied an Aerox-Injector to this German company in 1998, before delivering two more in 2001. And although all three of these units still perform outstandingly, the company decided to shop around and performed trials with a competitor supplying a solution based on direct cold plasma. That decision was blessing for Aerox, as the results of these trials confirmed our claim that the Aerox-Injector is the Best Available Technology on the market.

The subsequent decision to purchase Aerox-Injectors for the new production plant was quickly taken and another unit was required for a pellet line in the existing factory as well. The company meanwhile operates six Aerox units at its two poultry feed factories.



Moypark United Kingdom

Moypark in the UK produces poultry feed on 2 pellet lines. Based on recommendations of one of aerox' clients (AB Agri feed mill in Uffculme, Exeter), who uses one compact Aerox-Injector to treat two lines and achieve 80 % odour reduction,

Moypark decided in 2002 to chose for the Aerox-Injection technology. The environmental authorities declared the Aerox-Technology to be the Best Available Technology (B.A.T.).

Process airflows from two pellet Lines at Moypark are joined together, with a total of 40,000 m³/h, and is treated by one compact Aerox-Injector. Odour measurements (by olfactometric analysis) show an odour reduction of 90% or more each time.

In 2008, an official B.A.T. assessment has been done, by an independent assessment company. From these results, they concluded that the Aerox-Technology is considered as B.A.T. !





Fransen Gerrits The Netherlands

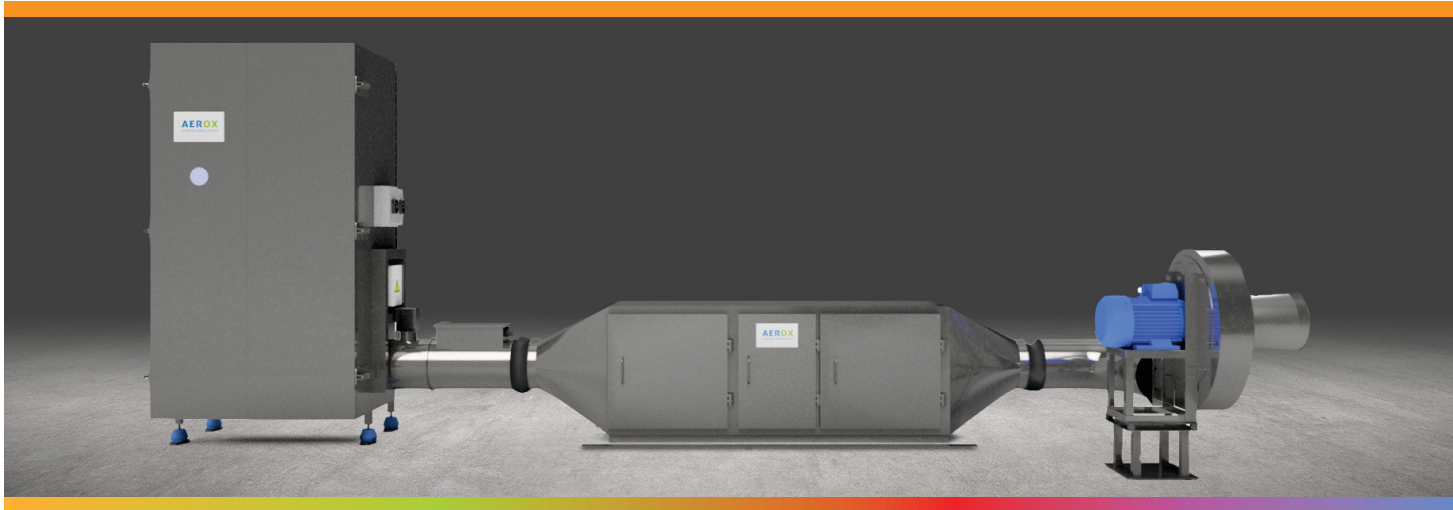
Fransen Gerrits is located in a small village in the Netherlands and has been there for many generations. Fransen Gerrits has a good relationship with the community and in order to keep their neighbours happy, they wanted to use a technology that could reduce their odour emission significantly.

Fransen Gerrits is producing pig feed on four pellet lines. The air coming from the four production lines is cleaned by cyclones and then joined together into one central plenum where the airspeed drops and slowly exits the side of the building. Aerox has done on-site pilot tests and determined that one compact Aerox-Injector can treat a total airflow up to 90,000 m³/h coming from 4 pellet Lines.

Fransen Gerrits is planning to increase their production capacity in the future, and by doing so they will also optimize the layout of the process ducting. Fransen Gerrits didn't want to wait for this moment, so they needed a flexible, compact solution that is very easy to install and can be relocated in the future if necessary.

The Aerox-Injector was the only installation that could be installed without major changes to the process ducting, and without any additional supporting construction.





Amalgam Biotech is an authorized representative of the Aerox®-Injector.

MORE

If you would like more information about the Aerox®-Injector, its alternatives, or odour control in general, please send an e-mail to **sales@amalgambiotech.com**, visit: **www.amalgambiotech.com** or call us direct on **+91 7276020758**.