



SECTOR: Livestock

CLIENT: Cincaporc

LOCATION: Almúdevar, Huesca
(Spain)

DATE: December 2022

PROTECTION AGAINST AIR PATHOGENS

CAMFIL PROTECTS ESTICHE LIVESTOCK FARM AGAINST HARMFUL AIR PATHOGENS

COMPANY PROFILE

CINCAPORC had concerns regarding the Porcine reproductive and respiratory syndrome (PRRS) outbreak, together with the engineering PRODES in the livestock farm. To study the case and the possible solution, they visited 'The Grandmother Farms' in Minnesota, USA that is using Camfil's air filtration solutions.

After the analysis, Camfil and other suppliers were contacted to share their proposal on the beneficial air inlet filtration.

CAMFIL

Camfil's solutions were voted the best and most beneficial based on the following reasons:

- after extensive research, Camfil has developed specific filtration for this application – Pathogen Barrier
- The property (CINCAPORC) was concerned about the PRRS outbreak, together with the engineering Camfil's solution includes the development of a complete double-sided weld structure to ensure there are no air leaks.
- Camfil's solution was Tested and has long experience in the USA.

WHAT IS THE PRRS?

PRRS, Porcine Reproductive and Respiratory Syndrome, is an economically significant zoonotic disease that causes reproductive failure in reproductive livestock and respiratory tract diseases in young pigs.

In the United States pig industry, this disease accumulates an approximate cost of 644 million dollars per year. Recent studies in Europe found that it costs almost 1.5 billion euros per year.



PROJECT DETAILS

The Farm has 6 differentiated ships and an office area:

- Confirmation of pregnancy
- Maternity 1
- Maternity 2
- Rearing
- Weaning
- Fattening

Each building has different aeration needs and different designs.

Each of these designs are developed according to the needs of air filtration. For example, the Fattening area has 4 welded stainless steel structures with a total of 90 Pathogen Barrier L9 filters and maximum design flow of 94,500 m³/h.

The structures are welded with TIG in their perimeter, guaranteeing tightness in the installations.

Each structure has a tightening system for the Pathogen Barrier Prefilter and filter, for easy installation and subsequent maintenance.



PROJECT FIGURES

DEVELOPMENT TIME / TECHNICAL OFFICE: 2 months

EXECUTION TIME: 6 weeks

TOTAL PATHOGEN BARRIER FILTERS INSTALLED: 796

TOTAL PRE-FILTERS INSTALLED: 796

TOTAL WELDED STRUCTURES: 42

TOTAL AMOUNT OF THE PROJECT: 198,602.28 €