

Poultry Case Study – ACE Refrigeration



The Customer

ACE Refrigeration has completed two projects for one of the UK's largest poultry processors at its chicken processing plants at Cambuslang near Glasgow and Sunderland, which have both undergone expansion. The family firm was responsible for R22 replacement at the Cambuslang factory as well as the design and installation of four blast chillers alongside the refrigeration upgrade of existing plant at the Sunderland site.

Key Projects

Cambuslang:

Following European legislation, the ban on recycled and/or reclaimed R22 Refrigeration gas came into effect on 31st December 2014. In addition, more recent legislation by the EU Commission sets deadlines to reduce HFC refrigerant gases with a GWP in excess of 2500. At the client's Cambuslang site, ACE Refrigeration was responsible for the decommission and removal of existing plant before supplying and installing new equipment using R407F refrigerant which has a GWP of 1850. Engineers installed new stainless steel Guntner evaporators along with a central pack serving the general areas. In addition, ACE were responsible for the design, supply and installation of new evaporators and two central pack systems for 17 blast chillers. Here the blast chillers had to each bring 850kg of product from +85°C down to 0°C within three hours. The work was part of an extension at the site accommodating up to 50% additional capacity enabling the business to meet customer demand. The footprint of our project here was just under 21,500m².

Sunderland:

Again preferring to use R407F with a GWP of 1850, ACE were responsible for the design, supply and installation of four new packaged Blast Chillers. Manufacturer independence gives ACE the ability to source from a large pool of top quality worldwide manufacturers, offering the reliability and energy saving results required by the customer, all within budget. The blast chillers used were to play a central role in this facility. So as part of the specification process, thanks to our independence and worldwide sourcing ability, we were able to demonstrate that the blast chillers sourced by ACE gave by far the best results; chilling more food in less time than chillers from other manufacturers, thus ensuring energy efficiency, best value for money and production efficiency. The blast chillers selected by ACE Refrigeration were manufactured by Hiber and were able to each bring 900kg of product from +80°C down to 0°C within just 90 minutes. The four Blast Chill evaporators were connected to a new Blast Chill pack with remote air cooled condenser. The footprint of our project here was just under 500m².

Work was carried out by ACE Refrigeration engineers while both sites remained fully operational.

Energy Efficiency

For some organisations, refrigeration costs can represent more than 50 % of their energy bill, and 20 % of that can be wastage. A modern and energy-efficient refrigeration system will help save you money; we know where energy savings can be made and how to get cost-effective and efficient systems up and running in your business.

Service & Maintenance

Our service & maintenance departments have dedicated teams of fully qualified service & maintenance engineers who work together to achieve a service which is fast, effective and reliable. Our reputation has been built upon our attention to detail and rapid reaction times.

Food Processing Industry Specialists

Reliability, efficiency and product integrity are the key words in the food processing industry, we know you cannot afford wastage and need to keep your customers happy. Our refrigeration plant also incorporates temperature monitoring systems, which are both HACCP accredited, BRC compliant and conform to Food Safety and Inspection Service standards.

Other Clients in the Food Processing Industry include:

- Castle MacLellan
- Scottish Sea Farms
- Albert Bartlett Potatoes
- Glenrath Farms
- Associated Seafoods
- First Milk
- Braehead SFO
- Campbell's Prime Meats
- Caledonia Cheese
- Drysdale Vegetables
- Galloway Seafoods
- Inverawe Smokehouse
- Marine Harvest
- McGhee's Family Bakers
- Edinburgh Salmon Company

▶ **Trusted**

▶ **Innovative**

▶ **Independent**

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