



THERMAL IMPACT GROUP LTD

STEAM SPECIALISTS

This case study was carried out at: **A
Petfood Manufacturer**
Located in Poland

Study

A large European Petfood Manufacturer commissioned an independently verified study to compare the performance of 9 CEELOC Steam Traps against that of 9 regular Mechanical Steam Traps. The traps were installed on a production line consisting of 2 steam-meat emulsion heat exchangers and a set of regulating valves & control equipment. The steam installation is de-watered with steam traps. The process was operated continuously for 2 weeks with no negative signs from production or quality control. The following parameters were measured and compared to the pre-existing Mechanical Steam Traps:

1. Heat Up Time to Set Point
2. Daily Steam Consumption
3. Ratio of kg of Steam per Tonne of Product

During the 2 weeks of the trial, the following was noted:

1. Visible improvement in energy efficiency performance of the production line
2. Reduced steam consumption per tonne of product

Results

Energy



An overall reduction of 13.3% in energy consumption.

Kg of Steam



An estimate of 8.2kg of steam is saved per tonne of product.

Financial Savings



A financial saving of €5,500 per year.

CEELOC Lifespan



A lifespan of the CEELOC estimated at 10 years minimum.