Pet Food Industry



This case study was carried out at: A

Petfood Manufacturer

Located in Poland

Study

A large Petfood Manufacturer commissioned an independently verified study to compare the performance of a CEELOC Steam Trap against that of a regular Mechanical Steam Trap. Both traps were installed on a shell and tube heat exchanger used to thaw frozen meat. The following data was collected from both the Mechanical Steam Trap and the CEELOC:

Steam Temperature, Steam Consumption Data, Production, Visual Observations, Steam Flow, Thermal Energy Recovery.

Using all the data collected above, a thermodynamic balance of the process was calculated.

Analysis of this data showed the following observations:

- 1. The process when using the CEELOC Steam Trap was much smoother with no impact on achieved temperatures.
- 2. There was a significant reduction of thermal energy demand (-22% observed between the Mechanical Steam Trap vs CEELOC)
- 3. Reduction in time to process batches; Mechanical Trap 48 minutes per batch, CEELOC 26 minutes per batch.

Energy Usage 22% Reduction An overall reduction of 22% in energy consumption.





