



# LODERS CROKLAAN

## The Netherlands



### Benefits

- 10 % savings in steam consumption
- 15 % increase in production
- Highly reliable - 10 year no-fail guarantee
- Removed unnecessary parts from system
- Significantly lowered condensate temperature

## GEM® Trap Complete Site Retrofit

A key global producer of oils, fats and nutritional ingredients is saving 10 % in steam consumption and achieving 15 % in increased production following the installation of Thermal Energy International Inc.'s GEM venturi orifice steam traps across its plant. A total of 450 GEM steam traps have been installed throughout the plant in a cross section of applications including heat exchangers, trace heating lines, steamers, evaporators and autoclaves, with condensate capacities of 5 kg/hour up to 9 ton/hour per trap.

The company has even been able to cancel the installation of a new process control system designed to increase the output of its distillers as the GEM steam traps have created a more stable process.

Prior to purchasing GEM steam traps, the company carried out a trial of the GEM venturi orifice steam trap, which confirmed that it was 50 % more efficient than new thermostatic traps used on site. Since then, it has replaced 98 % of its steam traps with GEM venturi orifice traps, which have also substantially reduced the backpressure in the condensate system.

**“Since the completion of this project we have noted a number of improvements in our system which have not only matched the benefits offered by Thermal Energy International Inc. but have increased performance in many other ways. In addition to achieving more than 10 % savings in steam consumption we are making substantial savings on make-up water. We have also achieved a 10-20 % faster warm up on our batch processes, a decrease in water hammer, and production from our distillers has increased by 10 to 15 %. Payback on this project is much less than the one year anticipated and the GEM® steam traps have been so successful that we equipped our new Rotterdam plant with them prior to the start of production and have also recommended they be installed in our plants in the US and Malaysia”.**

- Loders Croklaan Senior Engineer



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