COGENERATION FOR SHRIMP PROCESSING

Heiploeg produces its own electricity by means of cogeneration. The residual heat in the exhaust gases of the gas engines is usefully converted into steam.

If you talk about shrimps you are talking about Heiploeg. In more than 100 years Heiploeg has grown from a small family owned company in Zoutkamp (NL) into Europe's leading shrimp supplier.

Since 1999 Heiploeg has a hypermodern factory in Zoutkamp. With its 160 metres in length and a surface area that measures 26.200 square metres the largest "shrimp factory" of Europe.

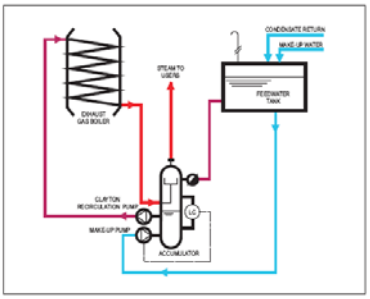
Caterpillar gas engines of type 3516 each generate 1.033 kWe electrical power.
From the exhaust gas flow of 470 °C, per engine a steam production of 850 kg/hr at 8 bar can be achieved (550 kW). Here 3 engines are provided with an exhaust gas boiler to save 1.650 kW.

Heiploeg uses steam for various melting, boil, blanching and clean-in-place (CIP) processes.

One advantage of the Clayton steam generator is their compact design.

Since her start in 1930 Clayton applies the counter flow principle for the heat exchanger which guarantees maximal thermal efficiency. The boiler water is enclosed in a long steel pipe which is spirally winded into a helical coil.

The "water pipe" boiler is feeded by its own unique Clayton membrame pump.



The Clayton design facilitates in drying the steam into a top quality of 99,5 % saturated steam.
The low water content of the boiler allows a rapid start-up in less then 5 minutes.

The standard range of boiler sections contains 20 different designs varying between 565 till 2.930 mm in diameter. These sections can easily be configured into a tailor made boiler of 4 to 10 meters height.

Clayton manufactures fired and exhaust gas boilers up to 30 ton/hour and 200 bar.