

SCANOLA



Protein- og
Oliefabrikken
SCANOLA A/S
Østhavnevej 15
Postboks 570
8100 Århus C
Telefon: 86 12 03 00
Telefax: 64703
scanol.dk
Telefax: 86 12 01 60
Reg.nr. 155322

Aqua Unique
Overholmvej 8b
DK-8722 Hedensted

14th September 1995

Lime scale deposits in plate heat exchanger (80° C - 90° C water temperature).

Scanola A/S is an oil and protein plant that extracts vegetable oil from rapeseed.

The plant consists of a process water system in which 90° C oil is cooled with water. The water is heated to the same temperature as the oil (80° C - 90° C) and then mixed with the oil, before centrifuging.

The problems we experienced in the system were due to limescale build-up in the plate heat exchanger (type GEA - Alborn VT10) resulting in the need to clean the exchanger every second month.

The solution was to install a magnetic water treatment unit (type WA 14 LOE ¾") to the cold water inlet of the plate exchanger. The installation took place approx. 12 months ago.

During the past 12 months, we have not experienced any problems relating to limescale build-up in the heat exchanger.

Previously it was necessary to acid clean the heat exchanger every second month. The system has now run problem free the past 12 months, i.e. the magnetic water treatment has extended our cleaning interval by approx. six times that of the initial cleaning interval.

Based on these positive experiences we now intend to experiment with magnetic water treatment in relation to scale problems in our vacuum pumps.

Best regards,

SCANOLA A/S


Henrik Hejgaard