



DAIRY INDUSTRY

Over the past several years there has been an increase in frequency and variety of bacterial contaminants found in all types of water ranging from drinking water, industrial process water and water used for recreational purposes.

Traditional methods employed to treat water include:

Chlorine	Hazardous, odors, not completely effective
Acid	Expensive, not completely effective, time consuming to apply, surface treatment only
UV-Light	Limited effect on "bio-film", must be used with another technique
Ozone	Does not treat bio-film, must be used with other techniques
Laser	Only effective at point of use. Must be used with other techniques
Heat	Expensive, requires 20 mins at 100°C

The Voigtlaender Generator

Water disinfection and general disinfection

- 1-Reduced operating costs
- 2-Replaces chlorine and is more efficient
- 3-Free of chemical additives
- 4-Ideal for remote locations
- 5-Eco friendly
- 6-Multiuse, for water disinfection and disinfection in general



SaniFluid: How it works

Combining salt, water, and electricity

- Salt and water are activated by an electrical current to produce a disinfectant
- The disinfectant SANIFLUID, is a HOCl (hypochlorous acid) rich solution
- SANIFLUID remains stable for extended periods of time
- SANIFLUID is an extremely effective disinfectant (>100 times more effective than OCl-)
- SANIFLUID penetrates the cell membrane by osmosis

- Destroys bacteria and virus from within
- Removes and prevents biofilm (breeding ground for bacteria)
- Always active

Solutions for the dairy industry

Dairy industry

- Optimizing processes and cost reduction in surface disinfection and CIP
- Cleaning of cooling tower systems
- Enhancement of process water
- Improved milk quality (lower bacterial count)

Surface disinfection / CIP

Savings due to replacement of traditional disinfection chemicals (e.g. Peracetic Acid) with Hypochlorous Acid produced on-site

- Optimization of CIP processes:

Water savings
Energy savings
Cleaning time savings
Cold disinfection

- Reducing health risks for employees
- No hazardous material – easy transportation
- Significant improvement of hygiene
- Easy quality control of disinfection results
- Better results at a fraction of cost
- Ecologically safe
- Sustainable production

Example 1: Dairy Israel

Substitution of peracetic acid in several CIP processes
Cost savings of € 230.000 per year for chemicals
Optimization of CIP processes on-going

Example 2: Dairy Germany

Production of yoghurt and pudding
Substitution of peracetic acid in 2 production lines
Cost savings of more than 60% per year for chemicals
Implementation and optimization of CIP processes is on-going

Cleaning of coolant / improvement of process water hygiene



Utilization of the on-site produced disinfection agent to disinfect and clean the drinking and process water

Reducing the existing bacterial count to 0 within a short time

Examples: Dairy in Israel (ice water), (cooling tower disinfection), Milk processors, Germany (process water), Dairy farms Germany (drinking water)

Certificates



DIN 1276
DIN 1650
DIN EN 901/ DIN 19643 – Swimming pool Conformance to WHO Standards
CE Conformance
MEBAK Band II 2.10.7
AOX – Test protocol

References

Fraport AG,
C.A.M.,
Saarbrücken Airport
Mecklenburger Ernte
Weihenstephan
Tnuva Dairies
Gazit Chicken farm
Millouff Chicken Farms
University of Iraq
University Hospital
Boecklunder Group
HatchTech B.V.

Frankfurt International Airport
International Airport
Regional Airport
Salad Producer
Dairy
Cottage Cheese and Yoghurt
chicken rearing
chicken rearing
Research and development
Würzburg Hospital
Meat Processing plants
Supplier of incubation solutions

Drinking water for aircraft
Fresh Potable water for airplanes
Drinking water for aircraft
Salad washing
Micro-biological control fresh water
C.I.P. with AnoFluid
Drinking water treatment
Drinking water treatment
disinfection applications (potable water)
Cooling Tower water disinfection
Disinfection of Process water and cleaning
Disinfection of water for incubators



