



BEVERAGE 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
Acid	Expensive, not completely effective, time consuming to apply, surface treatment only

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

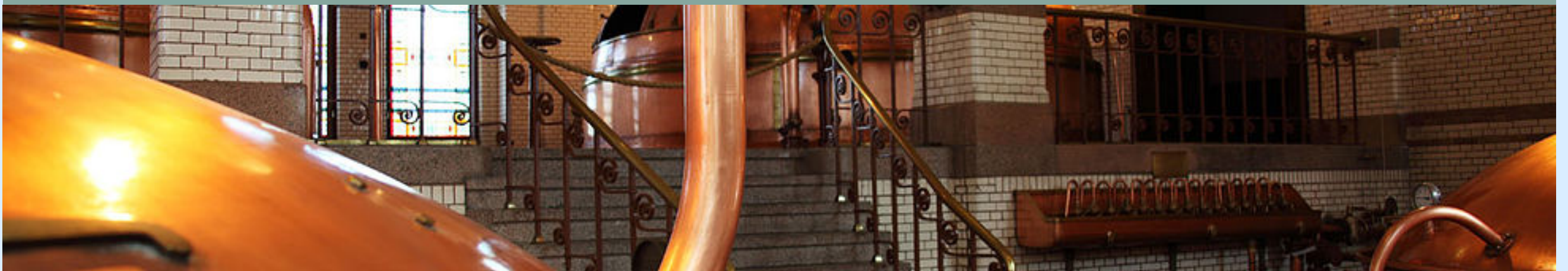
- Destroys bacteria and virus from within
- Removes and prevents biofilm (breeding ground for bacteria)
- Always active

Solutions for the beverage industry

The application

Replaces existing disinfection solutions

- Optimizes the cleaning process (3 phases)
- Disinfect with 9-10 ppm HOCl (cold)
- Disinfect with 2 ppm HOCl (cold)
- Rinse with cold water
- Save 100% of external chemicals (caustic soda, disinfectant)
- Save 75% of processing time (90 to 20 minutes) / save water and energy (up to 50%)
- Return on investment in less than 36 months



The filling process hygiene

- Permanently spray 5ppm HOCl during the filling process
- Maintains good filling hygiene for an extended period
- Ensures the safety of the products
- Optimized rinsing
- Foam cleaning with cold water (0.3 ppm HOCl)
- Disinfects with 2 ppm HOCl (cold) -rinsing with cold water (0.3 ppm HOCl)

Reference Design

The system

- SANIFLUID (HOCl) free chlorine 150-180 ppm FAC
- 200, 300 and 400 liters of SANIFLUID / hour
- Clean in situ (syrup room, tanks)
- Cleaning / spray filling

- Installed for more than 18 months
- Almost 50 facilities worldwide

The results (per plant per year)

- Saving in materials (acid, caustic soda, additives): 15,000 euros / year
- Save energy: 500,000 kWh / year, equal to 20,000 euros / year
- 75% reduction in cleaning time / and production stops



Bottle Rinse (wine)

- Replaces steam disinfection of wine bottles
- Optimizes
- Clean with 1.5 ppm HOCl (cold) instead of cleaning with hot water (60- 65 ° C)
- Eliminates steam sterilization
- Save 75% on energy costs (case in Germany: 40,000 euros / year)

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

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

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

