



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 Hospitality Sector

Challenges for Hoteliers

- Customer satisfaction
- Highest quality from the guest perspective
- Minimizing health risks



Legal Framework

Minimizing management liability
Stricter fulfillment of legal requirements
(Hygiene / Drinking Water)

Return on Investment

Improvement in occupancy rate
Significant reduction in operating costs

Sustainable and safe drinking water treatment

- Water with germs (including Legionella, MRSA and Pseudomonas) is completely cleaned
- Existing source of bacterial infections (biofilm) is reliably removed
- Preventing Re-contamination
- The infection risk of guests and therefore the personal liability of the owners will be reduced to practically zero

- Renovation cost of drinking water infrastructure can be reduced
- The hot water temperature can be reduced from 60-65 °C to 45 °C without hygienic problems
- Significant reduction in energy cost for hot water (20 - 30%) Risk of scalding guests is prevented
- Longer life span of the heating system, plumbing and valves due to lower temperatures
- Lower costs for new construction or renovation (savings of 25 -40%)
- Sustainability can be marketed - "Green Hotel"

Innovative and safe disinfection for swimming pools and spa areas

- Significant reduction in chlorine use with a better grade of disinfection
- No unpleasant odors - no more red eyes
- Automation ensures hygiene and reduced operating expenses and cost
- Significantly lower cost for disinfection (chemicals)
- Suitable for surface cleaning
- Greater safety for guests and staff

Further applications

- Water disinfection in air conditioning and cooling systems
- Surface disinfection in bathrooms and kitchens
- Laundry Hygiene
- Cleaning of waste water
- Lakes on Golf Courses
- Water Dispensers

Example: Open Air Swimming Pool

Replace chlorine gas as means to disinfect baby pools at one of Germany's largest water parks.

Reduce chlorine content to accepted minimum levels. Reduce THM (carcinogenic by products of chlorine and uric acid)

The system:

SANIFLUID is added directly to the circulating water by means of a dosing pump. All parameters are controlled by a in-line measurement and control system.

The result:

By dosing with SANIFLUID the volume of chlorine present in the water is reduced from 0.6mg/l (previously) to 0.1mg/l without impacting the

microbiological efficiency as well as meeting the Swimming pool standards for water quality. The results have been confirmed by the University of Kiel.

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

