



**STERILE SAFE**  
SOLUTIONS



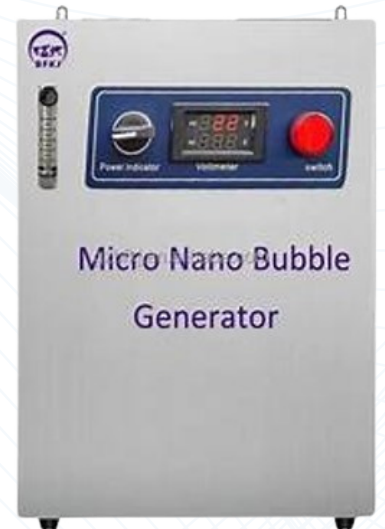
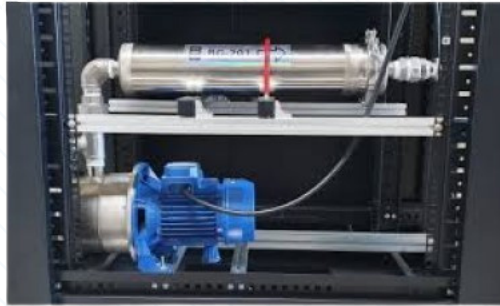
# S3 INTEGRATED WATER TREATMENT SOLUTION

REVOLUTIONIZING BEVERAGE INDUSTRY WITH CLEAN-LABEL,  
CHEMICAL-FREE TECHNOLOGY

Triple-Action Purity | Scalable ROI | Sustainable Compliance

## The Executive Advantage: Why S3?

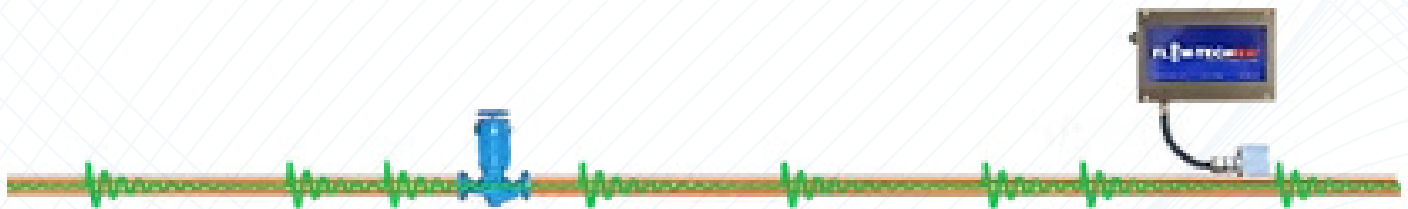
S3's Integrated Water Treatment System—combining Plasma-Activated Water (PAW), Nano Bubble Technology, and a Weak AC Current Field—replaces traditional chemical disinfectants and sanitizers with a breakthrough, non-thermal, residue-free alternative.



## Next-Generation Water Treatment: *The S3 Triple-Action System*

- 1. Plasma-Activated Water (PAW):** Injects reactive oxygen and nitrogen species (RONS) for potent microbial inactivation.
- 2. Nano Bubble Technology:** Generates ultra-fine gas bubbles that disrupt biofilms, increase surface contact, and create localized oxidative stress.
- 3. Weak AC Current Field:** Applies a low-frequency electric field to prevent mineral scaling and enhance water quality throughout piping systems.

Together, these technologies deliver continuous disinfection, scale prevention, and zero-residue sanitation—without heat or chemicals.



## Smart Applications for Beverage Plants

- » **Container Rinsing:** Replaces chlorinated or ozonated water rinses with antimicrobial PAW + Nano Bubbles
- » **Filler Nozzle & Pipe Sanitation:** Circulate PAW under AC field to eliminate biofilms and reduce Cleaning In Place (CIP) reliance
- » **Process Water Polishing:** Final purification step before carbonation or ingredient addition
- » **Cooling Loops:** Protect heat exchangers and chillers from biofilm and scale buildup
- » **CIP Alternative:** Reduces chemical usage, energy costs, and system downtime



## Example

Cost Category	Traditional	S3 Hybrid	Annual Savings
Chemical Sanitizers	\$60,000	\$10,000	\$50,000
Hot Water (CIP)	\$45,000	\$5,000	\$40,000
Downtime (Manual Cleaning)	\$20,000	\$5,000	\$15,000
Filter Fouling & Replacements	\$25,000	\$10,000	\$15,000
Rinse Water Consumption	\$30,000	\$15,000	\$15,000
Total Estimated Savings: \$135,000			
<b>Initial Investment:</b> ~\$85,000			
<b>ROI Period:</b> 8–10 months			

## Elevate Sanitation. Reduce Costs. Protect Your Brand.

### With the S3 Water Treatment System, you gain:

- » Competitive advantage with clean-label compliance
- » Reduced regulatory exposure—no chlorine, Trihalomethanes (THMs) & Haloacetic Acids (HAAs)
- » Support health issues for sustainability and ESG objectives
- » Extended equipment life and more production uptime

## READY TO TRANSFORM YOUR BEVERAGE LINE?


### Contact S3 Water Solutions

 **Bill Ganz, CEO**

 **310.991.9798**

 **[Billg@sterilesafesolutions.com](mailto:Billg@sterilesafesolutions.com)**

 **Daryl DeJean, President**

 **619.218.5522**

 **[daryld@sterilesafesolutions.com](mailto:daryld@sterilesafesolutions.com)**

Engineered for performance. Designed for leadership.