



V I K I N G

P U R E S O L U T I O N S

THE TECHNOLOGY OF TOMORROW . . . TODAY

WHAT IS VIKING PURE

✓ 100% Green Technology

✓ 100% Sustainable

On-Site Generated, Cleaning & Disinfecting Solutions

✓ 100% Toxin Free

✓ 100% Pure ... VIKING PURE



WE HAVE SEEN THE FUTURE...

Viking Pure's patented e-water is a nontoxic solution that has the power to redefine our idea of a clean environment. The chemicals that our society has come to rely on are harmful to our health, our wallet and our planet. They are also ineffective at killing the bacteria, viruses and superbugs that are plaguing our homes and businesses.

Viking Pure Solutions are not only more powerful than chemicals, but our patent-protected systems have revolutionized the very process of generating natural cleaning solutions. The result is a substance that originates in nature and yet is the only of its kind that has no detectable salt in the final product. This means that finally we can use the solutions without risk of corrosion caused by salt-based products.

AND THE FUTURE IS CLEAN



APPLICABLE INDUSTRIES

- Healthcare
- Senior Living / Assisted Living
- Airline Industry
- Hospitality
- Food Service
- Food Manufacturing
- Educational Facilities

Other Applications/Industries:

- Arenas
- Amusement Parks
- Athletic/Fitness Facilities
- Country Clubs/Golf Clubs
- Members Clubs
- Industrial Manufacturing Plants
- Breweries/Spirits Producers/Wineries
- Franchise Operations (Starbucks, Playa Bowls, etc.)



VIKING PURE SELF-CONTAINED GENERATOR

1 GALLON GENERATOR TO 55 GALLON GENERATOR!

EPA EST # 87542-FL-001



Mini (1 Gallon)



Mini MAXX (5 Gallon)



VPT-10 (10 Gallon)



VPT-20 (20 Gallon)



VPT-55 (55 Gallon)



Electrostatic Sprayer
1 Free with each unit
(\$1,000.00 value)



VIKING
PURE SOLUTIONS

PURE SAN

HYPHOCHLOROUS ACID, HOCl

- Naturally occurring in vivo via white blood cells
- Novel antimicrobial agent that is completely harmless to humans and animals yet **has killed every pathogen it has ever been scientifically tested against** including virus, bacteria, fungus, mold, etc.
 - Despite the destructive potential to all living things, HOCl is produced by our body and is used by our immune system
- pH (when pH is between 2.5 – 5.0 chlorine within HOCl) can exhibit up to 300 times greater sanitizing power than bleach
- FDA cleared superoxidized water as “high level” disinfectant in October 2002



PURE CLEAN

SODIUM HYDROXIDE, NaOH

- Produced simultaneously with HOCl via electrolysis
- Very low NaOH concentration (non-toxic/corrosive)
 - VP NaOH concentration is 0.000124 LBS of NaOH per Gallon; 99.96% Water
 - Natural emulsifier; degreaser and general cleaner
- Efficient Biofilm reducer – Registered Biocide
 - Food, Food Contact Surfaces, Equipment, Carpet/Floors
 - Woolsafe Certified with CleanSeal Accreditation



ELECTROLYZED WATER

Electrolyzed Water is the result of a process called Electrolysis. It is the process where salt (NaCl) is electrically separated into its two main ions; Sodium (Na) and Chloride (Cl). Those two ions are then mixed into two separate streams of fresh water thus making two very useful solutions:



SANITIZER
HYPHOCHLOROUS ACID, HOCl
Strong Sanitizing Solution
pH of 2.5 - 5



CLEANER
SODIUM HYDROXIDE, NaOH
All-Purpose Cleaner/Degreaser
pH of 11.5 - 12

WHY VIKING PURE

- Awarded U.S. Patent for ONLY "Salt Free" final solutions. Pat # US 8486236 B1
- Recognized in the 2013 Food Code classified by the EPA as pesticide devices subject to Federal Insecticide, Fungicide and Rodenticide Act Requirements
- EPA Approved sanitizer as "tolerance exempt: for food contact surfaces to a maximum 200ppm"





SUSTAINABLE? WE ✓ ALL THE BOXES!

✓ Green

Enables the client to recoup limitless gallons of toxic wastewater from drainage each year. Both Solutions 99+% water. Zero toxins/chemicals

✓ Carbon Challenge

On-Site generation drastically reduces carbon footprint (eliminates need for trucking, deliveries, etc.)

✓ ZeroWaste

Reduce overall sanitation/waste

✓ Retrofit Accelerator

On-Site generation mitigates the need to keep doors open for extended periods of time to accept deliveries of alternative products, allowing the client to maintain temperature more effectively and lowering GHG emissions spent on heating / air conditioning

✓ GHG Inventory

Viking Pure Solutions enables the client to cease purchasing virtually all chemical solutions for cleaning/sanitizing, which reduces the overall volume that these manufacturers need to produce, thereby lowering their respective GHG emissions



V I K I N G
P U R E S O L U T I O N S

E-WATER: PUBLISHED VALIDATION

“A new disinfectant, ‘superoxidized water,’ has been examined. The concept of electrolyzing saline to create a disinfectant or antiseptics is appealing because the basic materials of saline and electricity are inexpensive and the end product (i.e., water) does not damage the environment”

“In October 2002, the FDA cleared superoxidized water as a high-level disinfectant (FDA, personal communication, September 18, 2002)”



Guideline for Disinfection and Sterilization in Healthcare Facilities, 2008
William A. Rutala, Ph.D., M.P.H.^{1,2}, David J. Weber, M.D., M.P.H.^{1,2},
and the Healthcare Infection Control Practices Advisory Committee (HICPAC)³



REGULATORY INFORMATION



FDA CERTIFICATIONS OF ELECTROLYZED WATER

- FDA Approve under 21 CFR 173.315 for direct contact with processed foods
- FDA approved for several indirect food contact applications under 21 CFR 172.892, 21 CFR 175.105
- FDA decision #692 allows for vegetable & fruit produce washing using Electrolyzed Water
- FDA approved for several indirect food contact applications under 21 CFR 176.170 & 21 CFR 177.2800
- FDA approved sanitizer that meets 21 CFR 178.1010
- FDA approved under 21 CFR 7120.1 for spray and water treatment for processing of beef, poultry & pork



Electrolyzed Water is a type of chlorine material that is allowed in **organic** production and handling.



Usage of Viking Pure Electrolyzing system for the cleaning of plant equipment will not impact upon **kosher** status of any food produced upon such equipment.

-Orthodox Union

LEAD MEDICAL ADVISOR

DAVID ZHANG, M.D., PH. D., MPH

- Director of the Molecular Pathology Laboratory in the Department of Pathology at The Mount Sinai Medical Center located in New York
- Professor in the Departments of Pathology and Oncological Sciences at the Mount Sinai School of Medicine
- Formally trained in Internal Medicine, Medical Genetics, Microbiology, Anatomic and Clinical Pathology, Cytopathology and Occupational and Environmental Medicine
- Board certified in Anatomic and Clinical Pathology, Cytopathology, Molecular Genetic Pathology and Occupational and Environmental Medicine
- With Mount Sinai, Dr. Zhang has received over a dozen patents for his work on Nucleic Acid Amplification
- Member of the editorial board of the Journal of Molecular Biomarkers and Diagnosis, a Team Leader for Clinical Laboratory Inspections for the College of American Pathologists, a member of NIH/NCI Study sections, on the Advisory Board for Roche Diagnostics and the former President of the American Chinese Physician Association
- Received MD and MS from the Norman Bethune University of Medical Sciences in Changchun, China, a Ph.D. from the School of Medicine at New York University and an MPH from the Mount Sinai School of Medicine



EFFICACY



BRANDYWINE LIVING

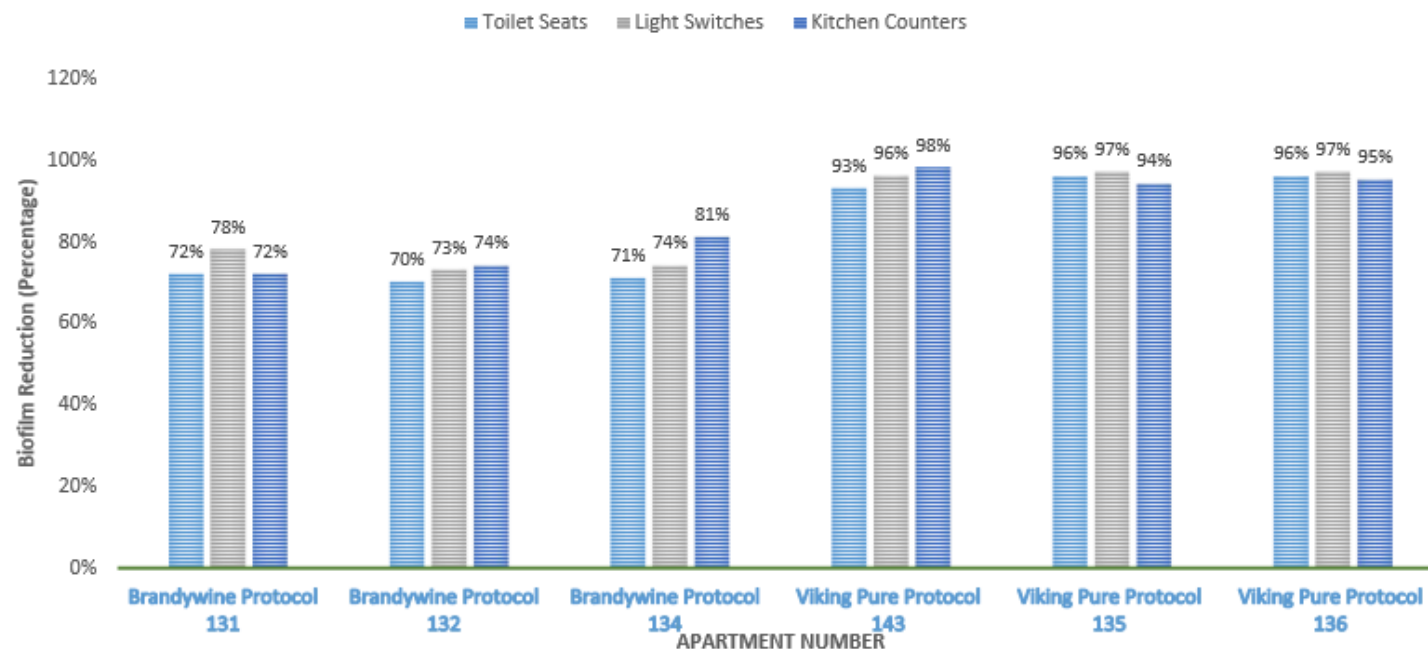
Life is Beautiful



BIOFILM REDUCTION COMPARISON

- The Viking Pure Solutions provided a greater and more consistent level of cleaning and sanitizing across the 3 apartments (134, 135, and 136) that were tested
- Reflections Memory Care Unit cleaned under normal schedule for facility
- Readings from ATP swab tests showed a consistent achievement of more than 95% biofilm reduction on all tested surfaces

ATP SURFACE SWAB TESTING (Current Facility Protocol vs. VP Solutions)



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EFFICACY (Continued)



NOROVIRUS/FLU

"The sample of the disinfectant liquid that you provided exhibited excellent antiviral efficacy."

ANTIBACTERIAL

"The sample of the disinfectant liquid that you provided exhibited excellent antibacterial efficacy."

Dr. George Lukasik, Ph.D.
Laboratory Director

Table 2. Inactivation of bacterial and fungal species by the Viking Pure 1000 Spray (Batch # 0001; 284 ppm total chlorine; pH 2.45). Test was conducted as per AOAC Official Method 961.02; Germicidal Spray Products as Disinfectants (2005)

Microorganism	Number of inoculated slides inoculated and sprayed with Viking Pure 1000	Average microorganism cfu/ml inoculated per slide [#]	Average cfu/ml recovered from slides sprayed with Viking Pure 1000 [*]	Percent Reduction	Log ₁₀ reduction
<i>Staphylococcus aureus</i>	10	>1.0 x 10 ⁵	<1.0	>99.999%	>5.0
<i>Pseudomonas aeruginosa</i>	10	>1.0 x 10 ⁵	<1.0	>99.999%	>5.0
<i>Salmonella choleraesuis</i>	10	>1.0 x 10 ⁵	<1.0	>99.999%	>5.0
<i>Listeria monocytogenes</i>	10	>1.0 x 10 ⁵	<1.0	>99.999%	>5.0
<i>E. coli</i> O157:H7	10	>1.0 x 10 ⁵	<1.0	>99.999%	>5.0
<i>Tricophyton mentagrophtes</i>	10	>1.0 x 10 ⁴	<1.0	>99.99%	>4.0





INDEPENDENT COMPARABLE STUDY DONE BY CHICK-FIL-A

DATE: August 22, 2017

PREPARED FOR: Chick-fil-A, Inc.

CLIENT CONTACT: Kyle Gallo

TITLE: In-Vitro Efficacy of Four Sanitizing Solutions against *Salmonella*, *E. coli* O157:H7, Generic *E. coli*, and *Staphylococcus aureus*

The following solutions were evaluated in the study:

1. Control (Butterfield's Phosphate Buffer, pH 7.2)
2. Quaternary ammonium (Current sanitizer)
3. Viking Pure Electrolyzed Water (Hypochlorous Acid)
4. Tersano Stabilizer Aqueous Ozone (SAO™)
5. Enagic Strong Acidic Water (pH 2.5)



“The **VIKING PURE (HOCl)** solution inactivated >99.999% of *Salmonella* more rapidly than Quaternary Ammonium and Enagic Strong acid water.”

“**VIKING PURE (HOCl)**, Tersano (SAO) and Enagic (Strong Acid Water) effectively inactivated >99.999% of generic *E. Coli* more rapidly than Quaternary Ammonium.”

“**VIKING PURE (HOCl)** reduced *S. aureus* by >99.999% more rapidly (i.e., within 6 seconds of exposure) than Quat and Enagic Strong Acid Water, which achieved a >5 log-unit reduction after 30 seconds of exposure. However, Tersano SAO did not achieve a 5-log reduction in *S. aureus* during 60 seconds of exposure.”

“A >99.999% reduction in *E. coli* O157:H7 was observed for Quaternary ammonium, **VIKING PURE (HOCl)**, and Enagic (strong acid water) within seconds (i.e., time-0 estimated to be within 6 seconds of inoculation), while a 5-log reduction in this organism (per mean *E. coli* O157:H7 counts) was never observed during 60 seconds of exposure to Tersano SAO.”

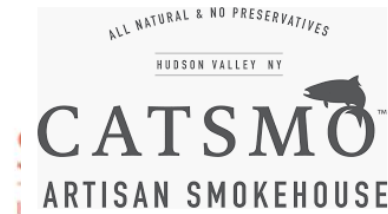


VIKING
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RETURN ON INVESTMENT

R.O.I. feedback Viking Pure Solutions has received from various clients:

- Tremendous Savings on carpet cleaning. No longer need to outsource. More effective.
- Better drain flow, resulting in less plumbing service
- Fruit fly reduction in various food service / dining environments / cafeterias. Lowers exterminator expenditure, improves Board of Health scores
- Much less time and money spent on training. Ease of use with only 2 solutions
- Increased employee satisfaction & safety resulting in less lost wages for employees
- Increased overall revenue / customers due to internal marketing



HEAR FROM OUR CLIENTS



Company Overview

<https://www.youtube.com/watch?v=cOPw6di1Jjk>



Neri's Bakery

<https://www.youtube.com/watch?v=Ta9K5XnZQzg>



WestMed Medical

<https://www.youtube.com/watch?v=TzGIUCtinww>



The Brandywine

<https://www.youtube.com/watch?v=ulMwB3N9Vlc&t=33s>



OPEX Fitness

https://www.youtube.com/watch?v=4gpzswui0_k



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***We have seen the future.
And the future is clean.***



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