ECOAQUA

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ECOAQUA APPLICATIONS

Airports and Railway stations

Sanitation // Hypochlorous acid based sanitizer is a high capacity disinfectant ideal for disinfection tunnels. The disinfectant is also suitable for mass sanitization purposes in habitable spaces. Besides the proven bactericidal, fungicidal and sporicidal activity the disinfectant also has proven viricidal properties against both enveloped and non-enveloped virus such as HIV, H1N1, HCV, Norovirus, etc. In addition to direct application through spray bottles and mops, it can also be applied broadly using foggers. The disinfectant is totally non- corrosive so, can be effectively applied to sensitive surfaces without compromising their integrity.

Hotels

Sanitation // ECOAQUA-W-40 is a "green" cleaning system for housekeeping department, kitchen and in-house laundry operation of Hotels. The system employs electrolyzed water technology to convert tap water and salt into a disinfectant known as hypochlorous acid, which is 80% more powerful than chlorine bleach and yet harmless to the environment. The technology simultaneously produces a second stream that takes the form of sodium hydroxide that can be effectively used as a detergent and grease cutter for gas burners, chimneys and kitchen tiles. Both solutions created by the system are non-toxic. The disinfectant can be used for sanitizing hotel rooms, laundry, floors, bathrooms, eating areas, and all contact surfaces without the need for a post-rinse.

Restaurants

Sanitation: Sanitize all contact surfaces. The disinfectant is non-toxic and non-corrosive and does not compromise the integrity of carpets, table cloths, curtains, wooden or steel furniture. No post rinse is required. No buffer time required after sanitation. Suitable for use in kitchens, dinning area, toilets, waiting lounge etc.

Cinema Halls

Sanitation // Hypochlorous based sanitizers are aqueous solutions with no fire hazards. The sanitizer is also more effective than currently used sanitizing chemicals. It is totally non- corrosive and fast acting also, can be effectively applied to sensitive surfaces without compromising their integrity. Moreover, the sanitizer is stable in solution, it can be applied through many different methods. In addition to direct application through spray bottles and mops, it can also be applied broadly using foggers. Apart from main sitting area, the sanitizer can also be used in kitchen, dining lobby, toilets, and so on. The sanitizer is also suitable for use in disinfection tunnels and does not produce any toxic breakdown products.

Office spaces

Sanitation // ECOAQUA-W-40 is an on-site sanitizer production device. The high capacity sanitizer generated from the device is eco-friendly and can replace all

chemicals used for cleaning and sanitizing conference rooms, common areas, sitting spaces, food area or pantry, floors, and bathrooms. Eliminating chemicals in offices saves time, space, and money. Chemicals require purchasing, transportation, storage, and preparation. ECOAQUA-W-40 is wall mounted and does not occupy much of space and consumables used are only salt, water, and electricity.

Schools

Sanitation // Hypochlorous acid (HOCL) is clinically proven to be safe, environmentally friendly, and fast acting against a broad range of resistant pathogens, including MRSA, Ebola, M. tuberculosis, Legionella, E.coli, HIV, poliovirus, Helicobacter pylori, norovirus, the avian inuenza virus, and many more. The disinfectant can sanitize all contact surfaces, such as floors, wooden furniture, playing area, toilets, library, school bus and so on. No post rinse is required after sanitization. The sanitizer does not emit any unpleasant smell and does not leave any stains.

COMPARATIVE TABLE FOR DISINFECTANTS

Features	Hydrogen peroxide Silver ions	Sodium or Calcium Hypochlorite	Hypochlorous acid
Disinfection Efficacy	4 log reduction (20-45min)	>6 log reduction (<1min)	>6 log reduction (<1min)
Tested Microorganism	Bacteria	Bacteria, Fungi, Spores, Virus	Bacteria, Fungi, Spores, Virus
Residue	Silver would remain after disinfection process	Can produce carcinogenic disinfection biproducts (DBP) (trihalomethanes)	No residue, No DBPs
Reactivity	Strong oxidiser which can react with variety of surfaces	Highly corrosive and bleaching agent	Non-reactive, non-corrosive
Quality Assurance SOP	Not available	Not available	Available
Ease of handling	Protective gear such as gloves, glasses are required while spraying	Toxic, protective gear is a must, unpleasant odour	Non toxic, Non- irritant, no protection required
Spraying in habitable spaces	Buffering time is required to allow breakdown of hydrogen peroxide	No buffering time required but can't be used in presence of people	No buffering time required, can be used in presence of people
Use in disinfection tunnels	Can't be used on humans	Can't be used on humans	Ideal for disinfection.Tunnels for humans,vegetables and all types of goods
Spraying time for disinfection of airborne microbes	60 min	10 min	10 min
pH	7-8.5	>10	6-7
Microbial Resistance	YES	YES	NO
Toxicity	TOXIC	TOXIC	NON-TOXIC

ELECTROLYZED WATER CERTIFICATIONS

- The U.S. Environmental Protection Agency (the "EPA") approved HOCL disinfecting solution (electrolyzed water or superoxidized water) as a high capacity disinfectant. (https://www.cdc.gov/infectioncontrol/pdf/guidelines/disinfection-guidelines-H.pdf)
- Is an FDA approved sanitizer that meets 21 CFR 178.1010.
- FDA approved 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 CFR175.105,
- FDA decision #692 allows for vegetable and fruit produce washing using Electrolyzed Water.
- FDA approved for several indirect food contact applications under 21 CFR 176.170 and 21 CFR177.2800.
- FDA approved under 21 CFR 7120.1 for spray and water treatment for processing of beef, poultry and pork.
- Exempt by the EPA under 40 CFR 180.1054 for washing raw foods that are to be consumed without processing.
- Exempt by the EPA under 40 CFR 180.940 provided that the Electrolyzed Water is applied on a semi-permanent or permanent food-contact surface with adequate draining before contact with food.

ECOAQUA W-40
SEMI-AUTOMATIC

DEVICE

Is a portable equipment to produce ECOAQUA solution. The main component is electrolytic cells, which is an independent flow electrochemical cell. The solution is produced from the mixture of salt and water when it comes in contact with the surface of electrodes. This results in a change of balance in the structure of water and the formation of active oxygen and chlorine compounds.

TECHNICAL SPECIFICATIONS

Productivity,l/hour	40
Power Supply	220 V, 50 Hz
Power, W	400
Consumption of NaCl for 1 liter of ECAS Solution, gms/l	max.5
Concentration of initial NaCl solution,%	10
pH value	6.5-7.2
Concentration of active chlorine Compounds, Ca.x, %	001+ 0,05
Dimensions, (mm)	350 x 160 x 400
Weight, (kg)	4,8
Technical resort, (hours)	17000