

# HYDROSOL SYSTEM HIGH PURITY DIVISION OFFERS

- Alkaline Cleaning
- Passivation of Stainless Steel Equipment
- Derouging of Piping and Equipment
- Gel Acid Passivation Solutionizing
- Biofilm and Organic Deposits Removal
- Electropolishing

## WE SERVICE THE FOLLOWING

- Water for Injection
- Clean Steam
- Reverse Osmosis
- De-ionized Water
- High Purity Gas
- Product and Process
- Clean Steam Generators
- CIP and SIP Skids and Components
- Autoclave and Isolation Barriers
- Fermentors and Bio-reactors
- Vessels and Tanks
- WFI Stills



### HYDROSOL SYSTEM, INC.

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# HYDROSOL SYSTEM HIGH PURITY DIVISION

High-Purity Cleaning and Passivation  
for the Pharmaceutical, Food and  
Household Product Industries



# THREE GENERATIONS OF HIGH PURITY CLEANING

Hydrosol System has been the industry leader in high purity cleaning for sixty eight years. Our chemical cleaning procedures and high level of service ensure our customer's equipment is operating at the stringent cleanliness levels set by the F.D.A. Our procedures are recognized by biotech, pharmaceutical, food, beverage, and household product companies. We use carefully formulated environmentally-friendly citric acid procedures that meet ASTM A-380 and A-967 criteria.

## CONTACT US TODAY

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## NEW CONSTRUCTION

Passivation is a critical process needed for the pre-commissioning of stainless steel piping and equipment.

### Hydrosol's cleaning & passivation process will:

1. Eliminate construction and in-service contaminants.
2. Eradicate free iron from the stainless steel surfaces.
3. Develop a passive layer on the stainless steel surfaces to help prevent corrosion.

## PREVENTATIVE MAINTENANCE

Turning city water into WFI and clean steam is a difficult process. Facilities may develop a "bio film" or iron contamination in the early treatment phases. Calcium issues in the distillation phase and rouging issues in the W.F.I. can cause problems in your equipment. In this critical environment it is important to ensure your stainless steel is passivated to adhere with strict industry standards. Corrosion and rouging can greatly effect operational standards.

Corrosion begins with a thin film, often called rouging. Rouging is a reddish, brown iron oxide that accumulates on your stainless steel. Both of these foreign deposits can make their way throughout your entire systems and cause damages and outages.

### Hydrosol's derouging & passivation process will:

1. Eliminate in-service contaminants.
2. Eradicate rouging from the stainless steel surfaces.
3. Develop a passive layer on the stainless steel surfaces to help prevent corrosion.

## HOW CAN HYDROSOL HELP?

A Hydrosol Engineer will visit your facility and create a customized chemical cleaning protection plan. Our plan will be designed to meet the specific needs of each customer. A crew will mobilize during a scheduled outage or in an emergency situation. High purity pumps are used to circulate chemicals through piping and equipment. Instrumentation is used to monitor free iron and concentrations. Information gathered will determine when your equipment is clean and safely protected. A custom turnover package will be presented upon completion of the job as a reporting record to validate system cleanliness.

## SAFETY FIRST WORKPLACE

Hydrosol System is committed to providing a safe working environment for all employees, including those of our customers. Hydrosol employees are OSHA and Hazardous material trained. We take a hands-on approach to enforcing safety, and we enforce a drug-free work place.

