

HYDRI-VISION



INTRODUCTION

Current State

Most Food customers rely on manual titration results to confirm compliance performance of chemistry and sanitizer automation controls and hardware relative to dispensing and allocation during any applicable CIP step for a respective circuit. Additionally, for context, if a circuit is not clean after CIP, one of the first resources utilized for troubleshooting is the titration result documentation (or log), which is also manually completed.

Outcome

Hydri-Vision or Hydri-Vision DLX can fully automate the titration and pH measurement and documentation process with strong confidence in its accuracy and repeatability.

CHALLENGE

To reduce or eliminate the amount of manual engagement in measuring and documenting chemistry and sanitizer titration or pH results during any applicable CIP step for a respective circuit.

GOALS

1. Routinely and consistently monitor and document the chemistry and sanitizer concentrations automatically throughout each CIP system and their respective circuits.
2. Reduce chemistry or sanitizer usage through the identification of over usage by a more accurate and repeatable titration or pH method.
3. Real time PLC access to reports and dashboards, highlighting relevant chemistry and sanitizer concentration results as well as parameters or specifications.

SOLUTION & RESULTS

1. Complete a 3rd party accredited study comparing the accuracy of our proprietary operating software for analyzing chemistry and sanitizer concentrations to manual titrations by a human.
2. Hydri-Vision or Hydri-Vision DLX can communicate and fully integrate into a customer's business or machine network.
3. Hydri-Vision or Hydri-Vision DLX produces electronic documentation detailing date, time, circuit cleaned, product titrated, etc.

Hydrite's automated titration system (Hydri-Vision) vs. manual operator titration

Product	Units	Expected Value	Average Observed Concentration		Actual Observed Concentration Range	
Chelated Caustic	oz/gal	1.5	1.7	1.68	1.4-2.1	1.61-1.75
Ultra 1030	oz/gal	1.0	1.2	0.99	1.0-1.5	0.95-1.03
Chloroclean #269	oz/gal	0.5	0.6	0.52	0.5-0.8	0.39-0.81
Cir Kleen #265	oz/gal	0.5	0.6	0.62	0.5-0.7	0.51-0.72
San-I-King #451	ppm	200	185	200.54	150-250	192.20-203.97
Dictate #465	ppm	100	89	91.72	75-110	77.11-98.18
Image #186	oz/gal	1.0	1.1	0.84	0.7-1.6	0.80-0.91
Ultra LFA #176	oz/gal	1.0	1.2	0.87	0.9-1.6	0.81-0.95
Hydroxysan Plus #490	ppm	120	134	116.42	104-195	103.69-130.74
Sustain #464	ppm	120	137	119.44	104-169	107.34-139.46



Manual



Auto

Providing Creative Solutions

VALUE CREATED

Labor Reassignment

Production personnel can more efficiently use their time which is saved by not having to do titration or pH measurements during CIP.

Sustainability

Increased accuracy of titration and pH measurements can identify product over usage, which not only impacts a customer's bottom line but also service life on relevant production components or hardware.

Regulatory Readiness

Management and production teams can be better prepared for audits, inspections, etc. with electronic documentation readily available.

CONCLUSION

By completing a 3rd party accredited study on this proprietary, patent pending technology, our customers can be assured of its accuracy and repeatability. Hydri-Vision and Hydri-Vision DLX is poised to fully automate the analysis and documentation of all chemistry and sanitizer concentrations throughout a plant with minimal to no manual engagement.

The HYDRITE Advantage

Chemical Experts

Our team is experienced and dedicated to providing technical support and services that help maximize efficiency and profitability all while maintaining or enhancing the quality of your end-product. Partner with Hydrite to see how our people make the difference.

Customized Programs

Every plant is unique and we understand that. We customize a solution for each location and application. Contact us today to learn more about our quality products, services, technology, and solutions.

Quality Focus

We understand how important it is to protect your brand and maintain the trust your customers place in you. Let us help you by delivering a quality solution at the most efficient cost.

Customer Service

At Hydrite, we form partnerships with our customers and provide them with the best possible and most efficient operational solution. Contact us today to see how we are different.

Supportive Approach

We feature a variety of creative solutions designed to lower operating costs, improve efficiency, and help you protect your brand. Join the many satisfied Hydrite customers that have experienced the Hydrite Advantage.