



# Clean

ZERO-ION CATALOG



## WELCOME TO AQUEOUS TECHNOLOGIES!

Our company specializes in the manufacturing of cleaning and cleanliness testing systems for the electronics assembly industry. Aqueous Technologies' equipment utilizes our planet's purest substance for the removal of harmful residues. It is our mission to continue developing environmentally mindful equipment which assists manufacturers with increasing product reliability.

Our product line has been developed to address manufacturing concerns such as flux polymerization associated with Pb free alloys and spray impingement concerns from increasingly difficult to clean low stand-off component spaces. Awareness of our environmental impact has necessitated a place in our equipment designs for effluent management and completely zero discharge configurations. Aqueous Technologies will continue adapting our equipment to address trends in modern manufacturing best practices and in that effort our team will remain open to new learning opportunities.

Our team will continue to travel the world participating and leading educational seminars which support our industry partners in the development of safe and dependable products. If our equipment is determined to be the best fit for an application requirement, we will strive to help based on our knowledge and experiences.

Aqueous Technologies deeply values our professional partnerships and is grateful for the confidence that is given to us from our customers, sales representative organizations and distribution partners. We will remain diligent in our efforts to provide win-win partnerships and endeavor to express our corporate virtues to our sales force around the world.

Our company has grown over the past twenty years. That growth has been cultivated through interactions with our customers, advisors, employees, and colleagues. We welcome any ideas and feedback and are grateful for the opportunity to make a difference within this industry.



Over Forty Prestigious Industry Awards

## CLEANLINESS TESTERS

Ionic contamination testers were designed and implemented for the purpose of determining and monitoring the cleanliness of assemblies. These systems are utilized to ensure that cleaning processes remain within tolerance of IPC and MIL specifications. The Zero Ion G3 ionic contamination tester performs a resistivity of solvent extract (ROSE) test.

### CLEANLINESS TESTING SPECIFICATIONS

The Zero Ion G3 ionic contamination tester meets industrial cleanliness specifications including MIL-STD-2000A, MIL-P-28809 and IPC-001 TM-650.

### PROCESS CONTROL

The Zero Ion G3 is powered by a Windows PC featuring a LCD screen provides real-time process information. Intuitive tabbed display screens conveniently organize both stored and real-time process data. Built-in SPC data recording captures all relevant testing data. An integrated SPC database lookup allows users to search for desired data sets. Cleanliness results may be stored for later viewing or may be printed onto any Windows compatible printer. Additionally, the Zero Ion G3 may be networked for remote viewing of all SPC data. An optional barcode scanner provides one-touch entry of a board's serial number or other process data. The PC-based control system automatically calculates NaCl/square equivalence (per military and IPC specifications). The unit operates in an automatic or manual mode, and is equipped with virtually limitless test recipe capabilities.

### DYNAMIC MEASUREMENT TECHNOLOGY

Modern cleanliness monitoring frequently requires the testing of assemblies reflowed with no-clean solder paste. The Zero Ion G3 tester utilizes a dynamic measurement technology, for detecting (weak) ion activators commonly found in no-clean fluxes. With dynamic measurement technology, the contaminated test solution is monitored and then filtered to supply de-ionized test solution back to the test chamber, resulting in greater solubility/sensitivity.

### SUBMERGED SPRAYS

The submerged sprays provide agitation of the test solution while eliminating possible test inaccuracies caused by carbon dioxide adsorption. The combination of test-board submersion and immersion spraying creates an environment whereby soluble contamination is extracted and measured.



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