

# Aquastorm<sup>®</sup> 200SS

## In-line Aqueous Cleaning System



The Aquastorm 200 Stainless Steel cleaning system with dual wash, dual chemical isolation and Torrid Zone dryer provides complete cleaning performance with fast throughput capability and optimal process flexibility.

### Exceptional Performance and Process Flexibility

As PCB designs move towards highly dense, increased complexity, and miniaturization – manufacturers are looking for solutions to increase product throughput and reliability. Electrovert developed the Aquastorm 200SS for manufacturers requiring a solution for immediate and long term in-line cleaning requirements. The Aquastorm 200SS cleaning system with dual wash, dual chemical isolation, and Torrid Zone drying is the total performance package providing fast throughput capability and optimal process flexibility.

### Dual Wash Cleaning

Electrovert's Aquastorm 200SS cleaning technologies deliver dynamic energy that penetrates under components. The Aquastorm 200SS standard configuration is equipped with dual wash modules. This helps to significantly extend the dwell time in a heated wash environment, increases throughput capabilities, and offers dual chemistry process flexibility.



### Advantages of Dual Chemical Isolation

As more applications require chemistry to meet cleaning requirements, the Aquastorm 200SS offers dual chemical isolation – an isolation section following each wash module. The benefit of chemical isolation is to reduce drag-out and take advantage of the dual wash system for dual chemistry capability. The Aquastorm's dual chemical isolation modules provides optimal separation between both wash and rinse sections.

### Durable Stainless Steel Design

All wetted materials used within the process area of the Aquastorm 200SS are stainless steel. The durable stainless steel design allows operating temperatures in the wet sections of up to 180°F. Removable front and rear stainless steel panels and hinged, tempered glass windows offer complete user accessibility and operational visibility. The Aquastorm is equipped with orbitally welded, stainless steel plumbing to eliminate pressure drops and leaks. All sections can be replaced or upgraded in minutes to maximize uptime and process flexibility.



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### Unsurpassed Torrid Zone Drying Technology

Integrated into the machine cabinet, the Torrid Zone delivers a controlled dynamic process that effectively removes moisture from the PCB. Typical performance includes drying complex assemblies to within 0.1 gram of prewashed dry weight. The module reduces exhaust requirements by 44% and uses 15% less power when compared with conventional drying systems, providing a rapid return on investment.



### Advanced User Interface

The Aquastorm 200SS is configured with a Windows®-based operating system that features process monitoring, datalogging and product traceability via the system software. The system is easily networked for downloading of recipes and remote access to operating data.

- Quick and easy viewing of system pressures, water levels, pump and blower operation, temperature, and fill/drain operation
- Datalogging, traceability and barcode capability



### AQUASTORM 200SS SPECIFICATIONS

Machine Dimensions (L x W x H)	9683mm (381") x 1845mm (73") x 1775mm (70")	
Cleaning Dimensions	508 mm (20") x 102 mm (4") 610 mm (24") x 102 mm (4") - optional	
Exhaust Requirements	Wet Section:	Three (3) 152mm (6") stacks: 34m <sup>3</sup> /min (1200 SCFM) @ 25mm (1") of H <sub>2</sub> O static pressure
	With Torrid Zone Option:	One (1) 152mm (6") exhaust #1: 14.1 - 19.8m <sup>3</sup> /min (500 - 700 SCFM) @ 25mm (1") of H <sub>2</sub> O static pressure; One (1) 152mm (6") exhaust #2: 8.5 - 11.3m <sup>3</sup> /min (300 - 400 SCFM) @ 25mm (1") of H <sub>2</sub> O static pressure
Standard Utility Requirements	380 VAC, 50 Hz, 3 Phase, 359 amps maximum. Alternate voltages available	
Drain Plumbing Requirements	Main drain line:	1 ½" male pipe thread stainless steel
	Closed-loop drain:	1 ½" male pipe thread stainless steel
Supply Water Requirements	Tank fill line:	19mm (0.75") stainless steel fitting (3/4") - 19-95 l/min (5-25 gpm)
	Final rinse supply:	19mm (0.75") stainless steel fitting (3/4") - 15.14 l/min (4.0 gpm) @ 50 psi, 60°C (140°F) deionized H <sub>2</sub> O

ITW EAE is a division of Illinois Tool Works, Inc. It is a consolidation of all of its Electronic Assembly Equipment and Thermal Processing Technology. The group includes world-class products from MPM, Camalot, Electrovert (Speedline), Vitronics Soltec and Despatch.