



# Automatic Washing Systems



*Preparation of  
Pharmaceutical  
Glassware*



## Impeccable Performance

Stringent regulations require strict compliance. Advanced features of the Cozzoli AW Series air cleaning and washing systems make compliance both direct and cost-effective. Our goals of increased efficiency, quality and reliability are reflected in the design of every Cozzoli washer. Ease of operation and simple changeover are the key features in the versatility of our washers.

## Advanced Automation

The message center displays data on speed and allows selection of washing cycles and vial size. Optional integrated PC technology allows the AW Series washers to monitor, record and signal the operator about parameters that fall outside preset alarm limits in air, steam, water pressure, water temperature or other optional parameters.

In addition, a complete Installation Qualification/Operational Qualification (IQ/OQ) documentation package can be customized for your machine. The package complies with FDA standards and helps to reduce your validation time. We can provide you with report generation as well. Reports document washing cycles for assurance that your washer is in strict conformance with the validated parameters. This feature also allows you to customize recipes for individual vial size.

## Aseptic Processing

The AW Series washers assure complete and predictable cleaning. The washing area has a transparent lexan cover that provides a complete view of the vials and spray patterns during cleaning. Air/vacuum precleaning helps eliminate adhesion of loose particles. Cozzoli's specially designed universal vial carriers maintain vials in a perpendicular position and eliminate particulate generation that can be caused by bucket-style washers. Container sizes range from 5ml to 500ml, or 10ml to 1000ml, and neck finishes from 13mm to 32mm.

Vials are held securely by the outside neck in the inverted upright position through nine user-defined washing stations. In this way, cleaning media impinges directly on the container's base. Nozzle penetration is adjustable up to 3"

The moving mesh conveyor channels containers into rows for acceptance by the universal vial carriers. The carriers shorten changeover time, eliminate particulate generation and reduce maintenance costs.



Optional PC station

The PLC allows selection of washing cycles and vial size and relays data on speeds. Optional PC control of all machine logic functions include the ability to monitor, record, and store job parameters and generate reports and validation documentation.

# DURABLE

Stainless steel construction throughout the AW Series assures durability, while the streamlined low profile design contributes to easier and more cost-effective installation.



*NOTE: Pins on vial carriers in the photo below are for support of larger vials.*



# VERSATILE

The AW Series can be configured with as many as 11 washing stations. The wash time control feature allows customization of wash media flow time for greater cost savings.

without contacting the vial interior, while propelling cleaning media to achieve a uniform cascading flow pattern. Washing fluids drain without obstruction. Virtually any cleaning media can be used including air, hot water, water for injection (WFI), deionized water, detergents and steam.

## *Lower Operating Costs*

The uniform washing provided by upright positioning reduces the amount of cleaning media required by the AW Series. Segregated wash stations are designed to prevent cross contamination, and resulting waste, that occurs when fluids mix. In addition, an optional sanitary reclaim/recirculation system can reduce water consumption by up to 80%.

## *Fast Changeover*

With universal vial carriers, the AW Series changes over in minutes! Time-consuming carrier changes are eliminated, replaced by a few minor adjustments. Furthermore, the carrier assembly requires fewer parts, providing not only an inherent cost savings, but also reducing maintenance costs. Cluster lubrication is another feature that contributes to ease of maintenance.

## *Flexible*

You can customize the washing format in one of two ways with additional stations. For accommodating additional media, such as steam or silicone, the washer may be set up with extra stations. When running a variety of container sizes, additional stations will reduce changeover time even further and save water.

## *Durable*

The AW Series has been designed, like all Cozzoli machines, to provide years of reliable running. In order to stand up to harsh agents and continual usage, the frame, vial carriers, airwash manifolds and basins of these washers are stainless steel. Nozzles are 316 stainless steel.

## *Applications*

Pharmaceuticals, biologicals, serums, animal health products and chemicals.

# *One Standard...Excellence*

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Since 1919 Cozzoli Machine Company has been an international leader in the design, manufacture, distribution, and service of precision machinery and packaging systems. Beyond design and manufacture, however, we also support you with an extensive parts inventory and factory-trained service technicians to assure your complete satisfaction. No matter how small or how large your investment in Cozzoli machines, we are committed to protecting your investment with resources and service worldwide.

## *Industries Served*

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**Pharmaceutical**

**Biotechnology**

**Animal Health**

**Cosmetics**

**Diagnostics**

**Chemical**



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