



Advanced Solutions for Infection Control

[AQUA SERIES] cGLP GLASSWARE WASHERS



DESIGNED FOR

LAST Technology's AQUA cGLP Glassware Washers are designed to clean, disinfect and decontaminate materials used in research laboratories such as glassware, metal parts, plastic and rubber components.

PROCESS FEATURES

The AQUA Glassware Washer was developed in accordance with GAMP and cGMP regulations and includes user customizable programming. Products to be cleaned or sterilized pass through a pre-wash, chemical wash, rinse and final hot air dryer (HEPA 14 filtered). In each phase, water T.O.C. level, conductivity and PH are carefully controlled. During the washing phase, chemicals are injected through a highly reliable system to further enhance the cleaning process.

Last Technology systems offer innovative design, energy savings, reduced foot-print dimensions, environmental sustainability, user friendly solutions and easy validation

LAST AQUA 3 17



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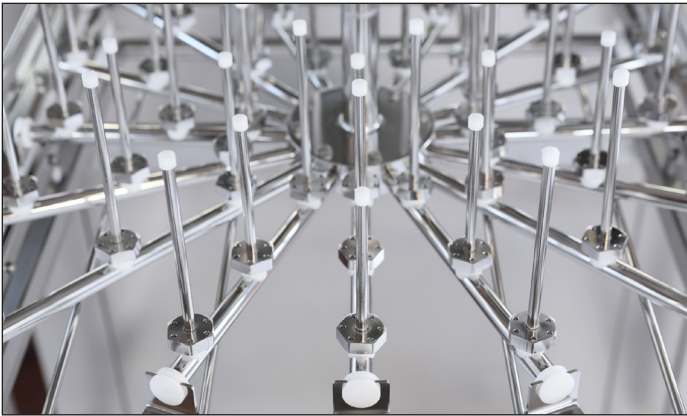
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AQUA SERIES GLASSWARE WASHERS (HINGED OR SLIDING TYPE DOORS)

| MODEL | CHAMBER DIMENSIONS (mm - inches) | | | CAPACITY [liters / cu. ft] | OVERALL DIMENSIONS (mm - inches) | | |
|----------|----------------------------------|------------|------------|-------------------------------|----------------------------------|-----------|------------|
| | WIDTH | HEIGHT | LENGTH | | WIDTH | HEIGHT | LENGTH |
| AQUA 250 | 600 / 23.5 | 700 / 27.5 | 610 / 24 | 250 / 9 | 760 / 30 | 1950 / 77 | 700 / 27.5 |
| AQUA 350 | 700 / 27.5 | 700 / 27.5 | 750 / 29.5 | 360 / 12.5 | 1150 / 45 | 2000 / 79 | 910 / 36 |

cGLP PROCESS EQUIPMENT CONSTRUCTION

- Rectangular double-wall type cross section chambers made of 316L or 316Ti stainless steel
- Innovative centrally located sump made of 316L or 316Ti stainless steel
- All piping in 316L and 304 stainless steel
- 3 degree piping slopping to the floor drain
- Product contact surfaces are mechanically polished to below 1 micron (40 micro inches)
- All internal corners of the chamber are rounded for easy cleaning
- Ergonomic manual or automatic product loading
- Chamber-door sealing by pneumatically pressurized gasket (by process air)
- Automatic vertical or side sliding chamber doors (door frame made of 316L or 316Ti stainless steel with HST tempered glass window for an internal visual inspection)
- Components and instruments made of 316L/316Ti/304 stainless steel and FDA approved elastomer (21 CFR part 177)
- Chamber, doors, piping, components and instruments are fully insulated
- Area separation with 304 or 316L/316Ti stainless steel bio-seal frame
- Brand new design of cart connection with self-ducting and self-disconnection system (100% guarantee of no leaks)



SUPERVISION, TRACEABILITY AND CONTROL SYSTEM

System automation by a Programmable Logic Controller (PLC) which guarantees a high level reliability. The Human System Interface (HMI) utilizes a touch screen Operating Panel (OP). The brand commonly used for hardware and software are Siemens, Allen Bradley and Mitsubishi with PID based control manages all system parameters, recipes, settings, sequence of operations, and storage.

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