

automatic laboratory glassware washer with dryer function

Automatic laboratory glassware washer is a set of cleaning, disinfection, drying in one of the efficient laboratory automated cleaning equipment, designed for laboratory common glassware and sample containers, to meet the high standards of cleanliness and high throughput processing needs.

Automatic Laboratory Glassware Washer

The automatic laboratory glassware washer is designed for scientific research, medical, environmental, and industrial labs where standardized, batch, and traceable cleaning is required. Its compact desktop design and full automation deliver efficient, reliable, and auditable cleaning and drying for various glassware.

Main Features

1. **Compact Desktop Design:** Small footprint, adaptable to limited lab space and bench layouts.
2. **Full-Automatic Operation:** One-key start completes pre-wash, main wash, rinse, disinfection, and hot air drying.



3. **High-Grade Stainless Steel:** SUS316L cleaning chamber for superior corrosion resistance; SUS304 shell for durability and aesthetics.
4. **Intelligent Operation Interface:** 7-inch color touch screen with Chinese menus for intuitive, clear operation.
5. **Imported Power Core:** European original circulation pump delivers strong, stable water pressure for consistent cleaning.
6. **Optimized Spray System:** Dual 360° rotating spray arms and flat-mouth nozzles ensure dead-angle-free cleaning.
7. **Multi-Temperature Control:** Independent temperature monitoring and adjustment for cleaning and drying sections guarantee thermal consistency.
8. **High-Efficiency Air Purification & Drying:** Built-in HEPA filter system outputs clean hot air, preventing secondary contamination.
9. **Automatic Liquid Adding:** Program-controlled dosing of cleaning and neutralizing agents for efficiency and error prevention.
10. **Data Recording & Output:** USB export, process storage, and optional printing for audit and traceability.

Working Principle

1. **Cleaning:** High-pressure pump drives water and cleaning agent through spray arms, removing residues by shear force and heat.
2. **Rinsing:** Multiple pure water rinses eliminate cleaning agent residues.
3. **Sterilization:** High-temperature water or chemical disinfectant sterilizes glassware.
4. **Drying:** HEPA-filtered heated air ensures glassware is dry inside and out.
5. **Control:** Accurate control of temperature, pressure, and time for repeatable, consistent results.

Application Areas

1. **Drug Testing & Pharma:** GMP-compliant clean instrument reuse.
2. **Disease Control & Bio Labs:** Removes pathogens and residues for accurate experiments.
3. **Environmental & Water Monitoring:** Cleans bottles and containers to prevent cross-contamination.
4. **Research Institutions & Universities:** Saves labor, increases vessel turnover, reduces breakage.
5. **Hospital Labs:** Automated cleaning and sterilization of test tubes and micro bottles.
6. **Industrial Labs (Petrochemical, Power, Food):** Supports clean analysis of industrial samples.

Safety & Protection System

1. **Intelligent Door Lock:** Double-point electronic lock prevents accidental opening during operation.
2. **Over-Temperature Protection:** Real-time monitoring and safe shutdown of water and air temperature.
3. **Pump Overheating Protection:** Prevents pump damage from excessive temperature.
4. **Power Failure Memory:** Restores original state after accidental outage, maintaining process continuity.
5. **Anti-Backflow Design:** Water seal drainage system prevents contamination of cleaned glassware.

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Model	GW10-100	GW10-200
Capacity	120L	200L
Washer Load Layer	1	2
Water Wash Power	0.75kw	
Water Heater Power	5kw	
Max Power	6kw	
Water Consumption per Cycle	17L	18L

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Model	GW10-100	GW10-200
Tank Internal Temperature	0°C to 99°C	
Water Supply Pressure	Tap water inlet pressure: 0.3Mpa to 1.0Mpa. pure water inlet: no pressure needed, built-in booster pump, can suck water automatically	
Peristaltic Pump for Cleaning Agent	2 independent pumps control detergent agent and neutralizing agent	
Cleaning Agent Level Sensor	yes	
Washing Pump	Sweden 430L per minute	Sweden 800L per minute
Drying Function	yes	
Steam Condenser	yes	
Dry Power	3kw	
Control System	7" touch screen, 40 preset editable programs and 200 PLC free programming	

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Model	GW10-100	GW10-200
Password Protection	3 levels password	
Safety Emergency Button	yes	
USB output	yes	
Integrated printer	Optional	
Online Monitor Performance of Washing	Optional	
Chamber Dimensions	600Wx629Dx539H mm	600Wx629Dx679H mm
Exterior Dimensions	990Wx820Dx880H mm	990Wx820Dx1150H mm
Package Dimensions	1110x940x1075mm	1110x940x1345mm
Net Weight	169kg	193kg
Gross Weight	200kg	260kg