

## automatic glassware washer with disinfection and drying

The vertical design of the automatic glassware washer saves space and has a large loading capacity, which is suitable for the high-frequency cleaning needs of a variety of common glass and plastic experimental apparatus, such as beakers, volumetric flasks, feed bottles, pipettes, triangular flasks, test tubes and so on.

### Automatic glassware washer Machine

The automatic glassware washer machine is designed for environments with stringent cleaning, safety, and compliance requirements. Its advanced cleaning, rinsing, and drying systems ensure consistent, reliable results for pharmaceutical, medical, research, environmental, food, petrochemical, and power laboratory applications.

### Core Advantages & Features

1. **Superior Structural Materials:** SUS316L stainless steel cleaning chamber resists acid and alkali corrosion; SUS304 brushed stainless steel shell for durability and easy cleaning. Multi-layer spray frame accommodates various vessel sizes.
2. **Efficient Circulation System:** Imported circulation pump delivers stable, powerful water pressure. Three-layer rotating spray arms provide dead-angle-free coverage. Flat-mouth nozzles create fan-shaped high-pressure flow for effective residue removal.



3. **Precise Temperature Control:** Dual-channel water/air temperature control, independent management of cleaning and drying. HEPA-filtered hot air drying prevents secondary contamination; synchronized drying/shower pipeline stops microbial growth.
4. **Cleaning Agent Management:** Automatic dosing of alkaline, acid, or neutralizing agents; liquid level monitoring prevents interruption.

### **Working Principle**

1. Multi-stage dynamic rinsing and hot air drying.
2. High-pressure spray arms and detergent strip residues through mechanical and chemical action.
3. Deionized/pure water rinsing removes all chemical traces.
4. HEPA-filtered hot air uniformly dries vessels, preventing moisture and microorganism growth.
5. PLC program control ensures precise, repeatable, and auditable operation.

### **Wide Range of Applications**

1. **Pharmaceutical/Drug Testing Labs:** GMP-compliant cleaning verification.
2. **Disease Control/Medical:** Biosafety-level apparatus processing.
3. **Scientific Research:** Increased efficiency, reduced labor.
4. **Environmental/Water Monitoring:** Standardized processing of sampling bottles, containers.

5. **Food/Petrochemical Labs:** Cleans oil, organic residue, high-adhesion apparatus.
6. **Power/Chemical Analysis:** Prevents sample cross-contamination.

### **Intelligent Control System**

1. PLC programmable controller for stable, integrated operation.
2. 7-inch color touch screen with graphical interface and real-time status.
3. Customizable cleaning programs for varied experimental needs.
4. Three-level password-based authority management.
5. USB export for historical data and audit traceability.
6. Failure self-diagnosis with text/sound alarms.

### **Safety & Humanized Design**

1. Double-point electronic door lock prevents opening during operation for user safety.
2. Dual over-temperature protection for cleaning/drying temperatures.
3. Automatic power-off for circulating pump at high temperature.
4. Anti-backflow drainage to prevent cleaning cavity contamination.
5. Automatic memory and recovery after power failure to avoid experiment interruption.

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<b>Model</b>	<b>GW20-220</b>	<b>GW20-320</b>	<b>GW20-420</b>
Capacity	220L	320L	420L
Washer Load Layer	2	3	washing bottles: 2 layer shelf. washing medical equipment: 1 layer shelf
Water Wash Power	0.75kw	1.5kw	1.5kw
Water Heater Power	5kw, 15kw		
Max Power	6kw, 16kw	7kw, 17kw	7kw, 17kw
Water Consumption per Cycle	20L	22L	25L
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	2 independent pumps control detergent agent and neutralizing agent		

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<b>Model</b>	<b>GW20-220</b>	<b>GW20-320</b>	<b>GW20-420</b>
Agent			
Cleaning Agent Level Sensor	yes		
Washing Pump	Sweden 800L per minute	Sweden 1000L per minute	
Drying Function	yes		
Steam Condenser	yes		
Dry Power	3.6kw		3kw
Control System	7" touch screen, 40 preset editable programs and 200 PLC free programming		7" touch screen, 12 preset editable programs and 100 PLC free programming
Password Protection	3 levels password		
Safety Emergency Button	yes		

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USB output	yes		
Integrated printer	Optional		
Online Monitor Performance of Washing	Optional		
Chamber Dimensions	600Wx629Dx754H mm	600Wx629Dx915H mm	688Wx700Dx703H mm
Exterior Dimensions	693Wx877Dx1825H mm	693Wx877Dx1985H mm	1110Wx950Dx2085H mm
Package Dimensions	810x990x2015mm	810x990x2185mm	1230x1070x2290mm
Net Weight	220kg	237kg	460kg
Gross Weight	300kg	320kg	490kg