



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

LABORATORY GLASSWARE WASHER - LAB 900



Model	LAB 900
Exterior Dimensions (WxDxH)	44.88" x 36.02" x 74.8"
Chamber Dimensions (WxDxH)	27.95" x 31.5" x 35.43"
Sound Level	58.6 dB
Water Consumption	10.57 gal per chamber fill
Electrical	208V/60Hz 480V/60Hz

The LAB 900 is a large capacity glassware washer specially developed for laboratories that require to clean large quantities of items on a daily basis.

This unit is capable of injection washing (with possibility also of injection drying, which is optional) on up to 3 levels with 4 possible rack locations, providing maximum flexibility through multiple chamber configurations, depending on the height of the loaded items.

All the machine levels are equipped with telescopic bearing rails that enable easy and safe loading and unloading of the glassware.

This washer disinfectant is equipped with a full visibility motorized sliding up door that reduces machine encumbrance and has a front access onboard chemical storage.

The filtered forced air drying system (optional) with adjustable time and temperature settings help to ensure the complete inside and outside drying of all the glassware.

Other features include:

- Injection cleaning: Up to three levels with four possible rack locations
- Dosing: Automatic detergent and acid dosing via peristaltic pump

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STANDARD FEATURES

Motorized Sliding Up Door

*Full visibility motorized sliding up door made of double HST (High Shock Tested) tempered glass

Fully Extendable Load Bearing Arms

*All the levels have fully extendable telescopic bearing rails enabling the use of specific upper wash carts

Washing System

*The hydraulic pump feeds washing chamber spray arms and wash cart injection connections
*Two rotary spray arms, one on the bottom and one on the top of the chamber, additional spray arms are available on dedicated upper level wash carts
*Spray arms made of AISI 316L stainless steel (DIN 1.4404)
*Easily disassemble washing arms for cleaning and maintenance

Direct Injection System

*4 wash chamber connections for injection wash carts

Circulation Pump

*Heavy washing pump feeding washing chamber spray arms and wash cart direct injection circuit: 2000W power & 237.75 gal/min

Filter System

*A three stage filtration system helps protect recirculation and drain pumps from debris
*Filters are installed on all incoming water lines
*Filters can be easily removed for cleaning

Water Quantity Check

*Accurate water quantity check by dedicated flow meters on all incoming water lines

Chemical Dosing

*Two peristaltic pumps provide precise addition of liquid chemical agents
*Minimum level sensor on chemical tanks

Electric Heater

*18 kW electric heating elements provides heating up to 93°C (200°F)
*Electronic Thermostats
*Two independent PT1000 temperature probes

Microprocessor Control System

*Possibility of up to 40 storable programs: 20 standard preset programs for laboratory glassware, 20 user definable programs
*Three level password protected programming

System Control Panel

*Digit pressure function buttons
*32 character monochrome LCD display

System Monitoring

*Audible and visual alarms provide quality control for each wash cycle
*Water level sensor for water sump load
*Additional water level sensor to prevent wash chamber overflow
*RS 232 port for printer connection to monitor and validate washing cycle

Gravity Drop Drain

*Solenoid valve to discharge wastewater to floor level drain.

SAFETY FEATURES

Locking Door

*Prevents interference with wash cycle once the machine is in operation

Main Power On/Off Switch

*Can be used to shut off the power to the control system

CONSTRUCTION

Wash Chamber and Door

*Constructed using AISI 316L stainless steel BA Ra<30 µin finish
*Designed and constructed with smooth edges and corners removing areas where dirt can accumulate and allow bacterial growth

Insulation

*High performance melamine insulation guards against heat loss and reduces noise level

Exterior

*AISI 304 stainless steel Scotch Brite finish Ra<40 µin

Components

*Constructed using stainless steel and other materials which are resistant against the effects of aggressive detergents

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OPTIONAL FEATURES

***Steam Heating** - Stainless steel exchanger provides rapid heating of water in washer pump

***Washing Circuit Check Pressure Device** - To monitor washing pump operation

***Additional Dosing Pumps** - Up to two additional peristaltic pumps for dosing of other types of chemicals to meet specific wash requirements

***Flow Meter for Chemical Control** - Accurate volumetric dosing of chemicals

***Conductivity Sensor** - Accurate measuring of the conductivity value during the final rinse phase

***Drain Pump**

***Drain Cooling Solenoid Valve** - Wastewater is cooled to 140°F (60°C). Cold water added to effluent during drain phase

***Forced Hot Air Drying System** - Air circulation in the chamber, through the chamber washing arms and through the wash carts injection system and washing arms. 98% DOP pre-filter. 7.8kW heating elements provide up to 284°F (140°C) air. Dryer blower, flow rate up to 500 m³/h (17.657 ft³/h).

***HEPA Filtration** - HEPA H14 filter with division level at 99.99% DOP

***Exhaust Steam Condenser** - Prevents vapors from entering into the washing area (programmable temperature)

***Printer** - On board integrated 40 columns thermal printer for validating washing phases with detailed information

***USB Port** - USB port for historical cycle data, machine parameters and washing programs download. Allows easy software upgrades.

***Seismic Tie Down** - Anchors washer to floor

***Light in the Chamber** - To ease washing cycle monitoring

***Network Connection** - Ethernet connection by X-fire device

***Validation Support Documentation and Services** - Installed Qualification and Operational Qualification (IQ/OQ) testing can be executed at the customer site.

***Cleaning Chemicals** - A large selection of cleaning chemicals are available.



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