GENEVA SCIENTIFIC
LAB EQUIPMENT SOLUTIONS

LABORATORY GLASSWARE WASHER - LAB 680

Model	LAB 680
Exterior Dimensions (WxDxH)	44.88” x 36.61” x 77.76”
Chamber Dimensions (WxDxH)	27.95” x 31.89” x 41.73”
Sound Level	57.5 dB
Water Consumption	10.57 gal per chamber fill
Electrical	208V/60Hz 480V/60Hz

The LAB 680 is a high capacity frontal loading glassware washer designed to meet the needs of medium and large facilities.

These units are capable of injection washing and drying on up to 4 levels with 5 possible rack locations providing maximum flexibility through multiple chamber configurations depending on the height of the loaded items.

Each level has telescopic bearing rails that enable easy and safe loading and unloading of the glassware. The drop-down door serves as a loading platform at convenient height for the bottom level.

The washer has on-board chemical storage on a easy access drawer on telescopic rails.

The filtered forced air drying system 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 four levels with five possible rack locations
-Dosing: Automatic detergent and acid dosing via peristaltic pump
-Drying: Forced hot air drying through washing chamber spray arms and wash carts injection system

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STANDARD FEATURES

Hinged Drop Down Door
*Counterbalanced for ease of operation, stainless steel AISI 316L (DIN 1.4404) washing chamber side, stainless steel AISI 304 (DIN 1.4301) external side
*Fully insulated to reduce heat loss and noise
*HST tempered safety glass
*The door acts as a loading platform which eliminates the need for a loading trolley and ensures proper rack placement and connection to the manifold

Fully Extendable Load Bearing Arms
*The upper levels have fully extendable telescopic bearing rails enabling the use of specific upper wash carts

Washing System
*Two washing pumps feeding washing chamber spray arms and wash cart injection connections circuits
*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

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
*7.8 kW heating elements provide up to 284°F (140°C) air
*Double dryer blowers, flow rate up to 2x 350 m3/h (12.36 ft3/h)

Direct Injection System
*5 wash chamber connections, 4 for upper level and 1 for lower injection wash carts

Circulation Pump
*2 pump units: 550W power & 92.46 gal/min and 900W power & 184.92 gal/min feeding washing chamber spray arms and wash cart direct injection connections circuits

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

Drop Down Door
*Eliminates the safety hazard associated with guillotine type doors.
*Counterbalanced for safe operation

Main Power On/Off Switch
*Can be used to shut off the power to the control system

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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 melanine 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

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

*__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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