



GENEVA SCIENTIFIC

LAB EQUIPMENT SOLUTIONS

CAGE AND RACK WASHER - AC 8000/2



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|-----------------------------|----------------------|
| Model | AC 8000/2 |
| Exterior Dimensions (WxDxH) | 98.4" x 100.4" x 97" |
| Chemical Dosing Pumps | 2 provided |
| Water Tanks | 2 provided |
| Electrical | 480V/60Hz |

The AC 8000 series cage and rack washer is a heavy duty, large capacity, hydro-spray, steam heated washer specifically designed to support the throughput of medium and large size facilities.

The AC 8000 is standard equipped with two pre heating water tanks and two dosage units. This results in greater flexibility in cycle development and may include a pre-wash followed by a standard wash, or a sequence of different chemical wash phases.

The rinse circuit is completely separate from the wash circuit. Multiple oscillating spray arms guarantee a complete and continuous coverage of the load and the chamber providing excellent wash results in a short cycle time.

The AC 8000 cage and rack washer features sliding doors, operator multi-language touch screen control with auto diagnostic checking that constantly monitors and displays current status.

The AC 8000 airtight chamber allows the machine to be used not only for wash but also as:

- Hydrogen Peroxide/Chlorine Dioxide decontamination pass-through chamber
- Chemical fogging chamber when fitted with a circuit of atomizer spraying disinfectant and compressed air within the chamber
- Thermal disinfection (clean steam) chamber.

The AC 8000 can be manufactured following GMP requirements including FAT/SAT/IQ/OQ protocols.

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STANDARD FEATURES

External Body:

-The external body is in Scotch Bright finished Ra<40µin stainless steel panels AISI 304 (thickness 1.2 mm).

Sliding Door:

-Stainless steel AISI 316L (DIN 1.4404) washing chamber side, stainless steel AISI 304 external side with inspection windows or full HST glass door.

-Fully insulated to reduce heat loss and noise.

-Interlocked doors (double door pass through version).

Washing Chamber:

-The chamber is made entirely of mirrored finished Ra<30in stainless steel AISI 316L (DIN 1.4404) (thickness 2 mm).

-Designed and constructed with smooth edges and corners thus removing areas where dirt can accumulate and allow bacterial growth.

Insulation:

-High performance melamine insulation 15mm (0.6") thick guards against heat loss and reduces noise level.

Chamber Floor:

-The loading floor is made of AISI 316 stainless steel and composed by sections that can be easily lifted to reach the bottom of the washing chamber for cleaning and filter maintenance.

-The loading floor is equipped with adjustable rail guides to match the client cart and racks castor layout.

-User friendly hook to remove the floor panels for maintenance.

Pre-heating Tanks:

-The AC 8000 is standard equipped with two pre-heating water tanks resulting in huge cycle set flexibility.

-Two AISI 316L stainless steel pre-heating tanks with capacity of 84 gal for pre-washing and washing phases and 58 gal for washing and rinsing phase.

-Pre-heating tanks are equipped with:

*air break water filling

*volume linear control

*maximum level sensor

*overflow drain

*steam heat exchanger "coil type" 220 lb/h at 43.51 psi g

*PT1000 temperature probe

*recirculation pump to avoid water stratification

Washing System:

-Separated washing and rinsing circuits with spray nozzles to grant full washing chamber/load coverage.

-Washing spray nozzles are installed on multiple horizontally mounted oscillating pipes on the two sides of the wash chamber and on multiple fixed pipes on the ceiling of the wash chamber.

-Stainless steel washing spray nozzles with plastic screw caps and plastic holders (full stainless steel nozzles available as option).

(AC 8000/2: 78 on each side and 16 on the ceiling for a total of 172 wash nozzles)

-Rinsing spray nozzles are installed on multiple horizontally mounted oscillating pipes on the two sides of the wash chamber.

-Plastic rinsing spray nozzles with plastic screw caps and plastic holders (full stainless steel nozzles available as option).

(AC 8000/2: 42 on each side, 84 total rinse nozzles)

-Easily disassembled spraying nozzles for cleaning and maintenance.

-Water saving cycle by recirculation of water in the wash phase.

-High water pressure for outstanding washing results

-7.5 HP process pump to set up the proper pressure for each wash phase, 290 gal/min flow

Washing Pump Pressure Check Switch:

-Process control of the wash cycle to ensure result repeatability. The pressure switch is used to keep under control the wash pump performances.

Filter System:

-The AC 8000 is equipped with a multi filtration system made up of 3 different levels; the first two filter stages in the sump and the final one (inline self-cleaning filter) within the water recirculation circuit.

-Filtration system to capture residue during the recirculation of the wash water and protect recirculation pump from debris with pre-filter and flush self-cleaning filter.

-Filters can be easily removed for cleaning.

Chemical Dosing:

-The AC 8000 is standard equipped with two chemical dosage units to dispense chemical products.

-Two (2) peristaltic pumps provide precise addition of liquid chemical agents.

-Flow meters for accurate volumetric dosing.

-Chemical product level check with minimum level warning/ alarm.

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STANDARD FEATURES cont.

Microprocessor Control System:

-PLC microprocessor with auto diagnosis function for real time monitoring of the machine installed devices: water level sensors, pressure transducers, temperature probes.

HMI - User Interface:

-Touch screen control panel, 5.7" color LCD display (loading side)
-Touch screen control panel, 4" monochrome LCD display (unloading side)
-Complete indication of machine functioning: cycle phase, time, temperature, chemical dosing, water quantity, drying.
-Three password protected security levels.
-Possibility of up to 65 storable programs: 10 standard pre-programmed, 50 additional for customer setting, & 5 service programs.
-Audible and visual alarms provide quality control for each wash cycle.

PROGRAMMING AND CYCLE OPERATION

The user creates unique programs to meet their specific needs. Listed are various phases that can be programmed and repeated into a variety of combinations.

-Pre-Wash: User is able to define the length and temperature of pre-wash. Cold or warm pre-wash (above 35°C (95°F)) can be configured accordingly to the items to be reprocessed.

-Wash: User is able to define the length of the wash cycle, detergent dosing and dosing temperature, temperature of the water up to 93°C (200°F).

-Neutralization: User is able to select the length of the rinse, the presence and the amount of neutralizer, temperature of the rinse up to 93°C (200°F).

-Final Rinse: User can define the length of the final rinse, temperature of the water up to 93°C (200°F), presence and amount of rinse aid.

SAFETY FEATURES

Locking Door:

-Prevents interference with wash cycle once the machine is in operation.
-Interlocked doors (pass through version)
-Internal chamber emergency exit red cord

Main Power On/Off Switch:

-Can be used to shut off the power to the control system
-Emergency push buttons on each side of the washer

OPTIONAL FEATURES

-Water Recycling System
-Manifold System for Trolley Docking
-Electrical Heating
-Adaptor for IVC Rack
-Exhaust Dumper Valve
-Exhaust Air Fan
-Additional Dosing Pump
-Inlet Air Valve
-Double Internal Safety Cable
-L Shaped Frame for Wall Connection
-Temperature and PH Effluent Treatment
-Heat Exchanger
-Printer
-Internal Light
-Stainless Steel Chamber Support for Deep Pit
-SteelcoData Software
-Remote Tele Service
-HPV/H2O2 External Connection System
-Sensor for H2O2 Concentration into the Chamber
-Sensor for Chamber Leakage Detection
-Sensor for H2O2 Presence in the Wash Area
-Chemical Fogging
-Connection to a Clean Steam Line
-Electrical Drying System with Two Blowers
& Much More



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Specifications are subject to change without notice.
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