

equitron[®]

Horizontal Autoclave HPHV

Compact. Water efficient. Intelligent design.
An Autoclave that helps you do more.





Shrinking your space requirements, not your capabilities.

Perfect for facilities with space constraints, the compact and space-saving design ensures you have a high-performing Autoclave that fits your space while meeting your chamber volume needs.

Ergonomic loading height makes load handling a breeze



Design that makes every inch count.

Thoughtfully engineered loading assemblies ensure you can load more than ever before. Whether you need the standard trays-in-chamber or the trolley-carriage configuration, our design guarantees higher throughput. Custom loading configurations specifically tailored to your load patterns or process complexities are available on request.

APPLICATION AREAS



Pharma



Hospitals



Research



Plant Tissue Culture



Food & Beverage

KEY FEATURES

- Compliant to HTM 2010, EN 285 and FDA
- Chamber and loading assembly (trays / carriage) of SS 316 / 316L, jacket of SS 304
- Chamber manufactured and tested as per ASME guidelines
- Pneumatically operated vertical sliding door
- Option of integrated steam generator or connecting to external steam source
- Pre & post vacuum using a superior and low-noise water ring pump
- Pneumatically actuated gasket design provides a solid seal and greater durability
- Machined groove flange for gasket for achieving a proper seal and prolonged gasket life
- 2 validation ports for self-calibration checks
- Independent pressure gauges for chamber, jacket and gasket
- Chamber is hydraulically tested at 3 kg/cm²
- Shell & tube type condenser for vacuum pump
- Once the pressure has been normalised to ambient pressure and temperature, the chamber door can be opened.
- 0.2µ filter to normalise chamber pressure at end of cycle - with sterile air
- Separate steam-in connections for chamber and jacket provides superior process control
- All control valves to chamber and jacket are pneumatic for durable performance and superior sealing
- Optimal and precise temperature control of jacket and chamber prevents wet steam and superheat conditions
- Thoughtfully designed tray perforation - enhanced air removal, steam circulation and drying
- Piping of SS 304 / 316 with Tri Clover Clamps for superior hygiene and easy maintenance
- Swept-piping design with slope where applicable to minimise dead-legs and guaranteed drainage
- Steam sampling port
- CE certified safety valves for chamber, jacket, steam generator
- Full data integrity with straightforward process documentation of 5 chamber temperature sensors with F₀ plus one pressure channel along with status information
- Machine frame (skid) and external panels of SS 304
- Easy to clean, hygienic design
- Quick access to all critical components
- Intelligent device layout for ease of maintenance
- Service and calibration reminders

POWERFUL & INTUITIVE PROCESS CONTROL

- At the heart of the Autoclave is an advanced Programmable Logic Controller with a touchscreen colour 7" HMI that offers flexible user-friendly interface and accurate process control
- All parameters including set parameters and alarms are displayed on the controller
- Intuitive menu navigation
- Selection of preset cycles from cycle library - 5 nos (user editable)
- Perfectly optimised cycles for diverse load types
- Preset Bowie Dick Test / Vacuum Leak Test (VLT)
- Corrective action programme on power failure
- Option of 21 CFR Part 11 compliant software



SAFETY

- Over pressure (chamber, jacket, steam generator)
- Over temperature
- Utility check prior to cycle initiation
- Optional advanced utility monitoring system
- Audio-visual indication for various alarms and applicable process deviations
- Door obstacle detection
- Multiple door and process interlocks with phase failure alarm
- MCB for electrical safety
- Emergency stop button



UNMATCHED WATER CONSERVATION SYSTEM

Sustainability is no longer just a buzzword - it is a critical business imperative and essential to the world we share. Vacuum Pump operation is potentially the largest consumer of water in steam sterilization. EQUITRON's proprietary water conservation technology (optional) enables 85-100% saving in the water required for vacuum pump operation. This option also enhances vacuum pump efficiency and reliability. Achieve a greener and more cost-effective operation that can save hundreds of thousands of litres of water a year.



TECHNICAL DATA

Details	Unit	#7461-0324-SU1G	#7461-0432-SU1G	#7461-0540-SU1G
		#7461-0324-SU2G	#7461-0432-SU2G	#7461-0540-SU2G
Capacity	L	324	432	540
Chamber Dim (W x H x D)	mm	600 x 600 x 920	600 x 600 x 1220	600 x 600 x 1520
Temperature Range upto	°C	135.0	135.0	135.0
Operating Pressure	psi / kPa	30 / 206.8	30 / 206.8	30 / 206.8
Duty Cycle	-	Four cycles in eight hour shift with a 30 minute cooling period		
Electrical Supply	-	415 VAC, 50 Hz, Three Phase + 1N		

- Single Door variant - models ending with SU1G.
- Double Door (Pass-through) variant - models ending with SU2G.
- 2 trolley and 1 carriage with 3 removable trays.
- External steam source option available on request.
- Supply with Dot matrix printer.
- Suitable air compressor and water purification system provided.
- For utilities required and other technical specification, kindly contact the company representative for further details.
- Other sizes and chamber capacities available on request.
- Other voltages available on request.

Due to continuous improvement in design, the product supplied may have modified features.



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