# [ RSA SERIES] REGULAR STEAM AUTOCLAVES

Advanced Solutions for Infection Control


## DESIGNED FOR

***LAST Technology's Regular Steam Autoclaves (RSA) are designed for sterilization of heat-resistant and moisture-stable materials such as metal parts, plastic and rubber components and liquids in sealed or vented containers.***

## PROCESS FEATURES

The RSA was developed in accordance with GAMP and cGMP regulations and includes both user customizable programming and pre-programmed cycles. The pre-programmed cycles include the Vacuum (Pressure Leak Test), Bowie & Dick Test, Helix Test and Filter Sterilization/ Integrity test. Other pre-programmed cycles are available for dry goods, porous loads, liquids in vented containers, liquids in sealed containers, liquids in syringes, highly sensitive products (filters) and rubber stoppers. During the process, the steam is injected into the chamber through a P&ID controlled valve and the condensate is continuously evacuated through the drain to provide excellent distribution of the heat during the entire sterilization phase with a temperature deviation less than ± 0.4 °C.

***All Last Technology systems are designed and manufactured in accordance with cGMP regulations, completely validatable, and are suitable for use in FDA and EMA regulated facilities***



AWS BIO-PHARMA TECHNOLOGIES

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## TECHNICAL DATA FOR THE RSA SERIES, REGULAR STEAM AUTOCLAVES

| MODEL | CHAMBER DIMENSIONS | | | CAPACITY [LITERS / CU. FT] | OVERALL DIMENSIONS | | |
|---|---|---|---|---|---|---|---|
| | WIDTH | HEIGHT | LENGTH | | WIDTH | HEIGHT | LENGTH |
| RSA 150 | 350 / 14 | 700 / 27.5 | 680 / 27 | 150 / 5 | 1040 / 41 | 1900 / 75 | 1000 / 39 |
| RSA 250 | 350 / 14 | 700 / 27.5 | 980 / 38.5 | 250 / 9 | 1040 / 41 | 1900 / 75 | 1300 / 51 |
| RSA 300 | 650 / 25.5 | 700 / 27.5 | 680 / 27 | 300 / 10.5 | 1340 / 55 | 1900 / 75 | 1000 / 39 |
| RSA 450 | 650 / 25.5 | 700 / 27.5 | 980 / 38.5 | 450 / 16 | 1340 / 55 | 1900 / 75 | 1300 / 51 |
| RSA 550 | 650 / 25.5 | 700 / 27.5 | 1280 / 50.5 | 550 / 19 | 1340 / 55 | 1900 / 75 | 1600 / 63 |
| RSA 650 | 950 /37.5 | 700 / 27.5 | 980 / 38.5 | 650 / 23 | 1500 / 59 | 1900 / 75 | 1300 / 51 |
| RSA 850 | 950 /37.5 | 700 / 27.5 | 1280 / 50.5 | 850 / 33.5 | 1500 / 59 | 1900 / 75 | 1600 / 63 |
| RSA 1000 | 950 /37.5 | 700 / 27.5 | 1580 / 62 | 1000 / 39.5 | 1500 / 59 | 1900 / 75 | 1900 / 75 |
| RSA 1250 | 950 /37.5 | 700 / 27.5 | 1880 / 74 | 1250 / 49 | 2800 / 110 | 1900 / 75 | 2200 / 86.5 |
| RSA 1500 | 950 /37.5 | 1300 / 51 | 1280 / 50.5 | 1500 / 52.5 | 2800 / 110 | 1900 / 75 | 1760 / 69.5 |
| RSA 2000 | 950 /37.5 | 1300 / 51 | 1580 / 62 | 2000 / 70 | 2800 / 110 | 2200 / 86.5 | 2060 / 81 |
| RSA 2500 | 950 /37.5 | 1300 / 51 | 2180 / 86 | 2500 / 87.5 | 2800 / 110 | 2200 / 86.5 | 2660 / 105 |
| RSA 2850 | 950 /37.5 | 1900 / 75 | 1580 / 62 | 2850 / 100 | 2800 / 110 | 2800 / 110 | 2060 / 81 |
| RSA 3400 | 950 /37.5 | 1900 / 75 | 1880 / 62 | 3400 / 119 | 2800 / 110 | 2800 / 110 | 2360 / 93 |
| RSA 4000 | 950 /37.5 | 1900 / 75 | 2180 / 86 | 4000 / 140 | 2800 / 110 | 2800 / 110 | 2660 / 105 |
| RSA 5000 | 1250 / 49 | 2200 / 86.5 | 1880 / 62 | 5000 / 175 | 3450 / 136 | 3000 / 118 | 2360 / 93 |
| RSA 6000 | 1250 / 49 | 2200 / 86.5 | 2180 / 86 | 6000 / 210 | 3450 / 136 | 3000 / 118 | 2660 / 105 |
| RSA 6800 | 1250 / 49 | 2200 / 86.5 | 2480 / 98 | 6800 / 238 | 3450 / 136 | 3000 / 118 | 2960 / 116.5 |

## CGMP PROCESS EQUIPMENT CONSTRUCTION

- *Double-wall type cross section chambers made of 316L or 316Ti Stainless Steel*
- *Dimple welded jacket made of 304 or 316L/316Ti Stainless Steel*
- *All piping in 316L Stainless Steel include sanitary fittings (tri-clamp ferrules and hygienic flanges)*
- *Product contact surfaces are mechanically polished to 0.35 micron (15 micro inches)*
- *Automatic vertical or side sliding chamber doors*
- *Integrated clean steam generator options*
- *Chamber-door sealing by pneumatically pressurized gasket (by process air)*
- *Components and instruments made of 316L/316Ti Stainless Steel and FDA approved elastomers (21 CFR part 177)*
- *Chamber, doors, piping, components and instruments are fully insulated*
- *Bio-seal frame made of 304 or 316L/316Ti Stainless Steel*
- *Bio-seal flange for connection to an isolator*
- *Ergonomic manual or automatic product loading*

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