



Advance Biotech Solutions India Pvt. Ltd.

(Advance Technologies, Effective Solutions)



(An ISO 9001:2015 Certified Company)



STER-SAFE MAX AUTOCLAVE



ABSIPL make Ster-Safe Max brands Autoclave

AUTOCLAVE is based on the principle that microbiological action of saturated steam at elevated temp is rapid and thorough. All models work on downward displacement of air principle which is most economical method of obtaining for all types of bulk sterilization which are commonly needed in Medical, Agricultural, Research Institute, Pharmaceutical. Suitable for sterilizing hospital dressings, rubber plastic goods, surgical instruments, glass wares etc.

All AUTOCLAVE available in 316 or 304 available as per demand.

Note: Product appearance and specifications are subject to change without notice

VERTICAL SQUARE BODY TRIPLE WALLED FULLY AUTOMATIC AUTOCLAVE

- Fully Automatic triple wall model comprises of steam jacket electrically heated, Inner chamber & lid made of stainless steel 316, works on 3-phase, 415V., A/C, 50 HZ supply fitted with automatic pressure control switch, safety valve, pressure gauge & compound gauge.
- The Jacket & outer body made of heavy gauge, stainless steel 304, Fitted with stainless steel forged ring and forged lid, chamber & jacket are Fitted with two safety valve of stainless steel, pressure gauge, water outlet and inlet ball valve and vacuum breaker, Air inlet valve, stainless steel steam condenser, tube with stainless steel eject valve.

STEAM GENERATOR: -

- The steam generator is made out of heavy gauge stainless steel fitted with pressure gauge and water draining valve.

OUTER COVER:-

- The outer cover is made out of stainless steel, duly insulated with high density mineral wool from the inner chamber and fitted with outer.

OPERATING TEMP. & PRESSURE

- Sterilizing Temp : 121°C to 134°C
- Sterilizing pressure : 1.2 to 2 kg/cm² (15 psi to 22psi)



SPECIAL FEATURES :-

- Digital Temperature controller
- To provide High pressure High vacuum model
- Top loading radian locking door model.
- Automatic water level cut off systems.
- High & low temperature alarm.
- To provide inbuilt thermal printer facility.
- Fully automatic HMI and PLC CONTROLLER. with printer
- Documentation- DQ,IQ,OQ, Warranty certificate, MOC Certificate, & all required
- validation and calibration provide at own side.

AVAILABLE IN FOLLOWING CAPACITIES

Model	SSMA-FA-VT-40	SSMA-FA-VD-78	SSMA-FA-VD-98
Inner Dimension	300 x 500	400 x 600	450 x 600
Capacity (Lt)	40	78	98
Heater Load (KW)	4	6	6

VERTICAL SQUARE BODY DOUBLE WALLED AUTOCLAVE

- Inner chamber, outer chamber and support ring are fully made of stainless steel.
- Heaters cover stand and carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Radial locking lid ensures user safety and safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device and water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground and polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bill drastically.

Model	SSMA-FA-VD-22	SSMA-FA-VD-40	SSMA-FA-VD-50	SSMA-FA-VD-78	SSMA-FA-VD-98
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600
Capacity	22 Litres	40 Litres	50 Litres	78 Litres	98 Litres
Heater Load	1.5 KW	2 KW	3 KW	4 KW	4 KW

TECHNICAL SPECIFICATION

Sterilizing pressure=1.2kgf/cm² (15 psi) at 121°C
 Operating pressure= from 15 psi to 22 psi (adjustable)
 Power supply=220x230 AC, 50/60 Hz Pressure Vessel= SS 304 Grade Stainless Steel
 External Wall=SS 304 Grade Stainless Steel
 Top Lid=SS 304 Grade Stainless Steel
 Basket= SS 304 Grade Stainless Steel

1. Water Level Indicator.
2. Stainless Steel Basket.
3. Vacuum Breaker.
4. Automatic pressure control switch.
5. Automatic low water cut off switch.
6. Fully automatic PID purging system.



HORIZONTAL RECTANGULAR HIGH PRESSURE AUTOCLAVE

- The inner/outer chamber, steam jacket and boiler are made of heavy gauge SS with leak proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device and automatic pressure control devices. Fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining/clearing.
- This affords a complete safety to the working personnel against explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jacket as and when desired.
- Sterilization cycle is controlled by single point multiport valve.
- The chamber discharge line is fitted with a moisture trap to absorb the condensate automatically thus preventing moistening of the loaded material to be sterilized.
- An automatic vacuum breaker is fitted to all units as a standard accessory in order to break vacuum in case of steam condensation.
- The flanged immersion type heating element made from a very high grade material provide fast formation of pressure in the system and are protected through a electric low water level cut off device.
- All sterilizers are provided with triple safety features through a "Piezostate" (automatic pressure control system) and a spring loaded safety valve fitted to the boiler/steam generator.
- The chamber is fitted with spring loaded safety valve and a dead weight release valve.
- To work on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

Model	SSMA-SA-H180	SSMA-SA-H240	SSMA-SA-H180	SSMA-SA-H180
Inner Dimension	450 x 450 x 900	450 x 600 x 900	600 x 600 x 900	600 x 600 x 1200
Capacity	180 Litres	240 Litres	320 Litres	430 Litres
Heater Load	12 KW	12 KW	18 KW	18 KW

TECHNICAL SPECIFICATION

Gasket: made of joint less silicon rubber.
 Exhaust pressure: manual through the exhaust valve
 Sterilizing pressure: 1.2 to 1.5 kgf/cm² (15 to 20 psi) at 121°C
 Operating pressure: from 15 psi to 20 psi
 Pressure gauge: 0.2.1 kgf/cm² (30 psi)
 Tubular stand and supporting ring: made of mild steel or stainless steel
 Pressure Vessel= SS 304 Grade Stainless Steel
 External Wall=SS 304 Grade Stainless Steel
 Top Lid=SS 304 Grade Stainless Steel
 Basket= SS 304 Grade Stainless Steel

1. Automatic pressure cut off switch
2. Digital temperature indicator cum controller
3. Vacuum breaker
4. Water level indicator
5. Automatic self locking system
6. Automatic low water cut off switch
7. Moisture trap



HORIZONTAL CYLINDRICAL TRIPLE WALLED HIGH PRESSURE AUTOCLAVE

- The inner/outer chamber, steam jacket and boiler are made of heavy gauge SS with leak proof argon arc welding.
- The space between the outer chamber and steam jacket is filled with glass wool to minimize thermal losses.
- Hydraulically tested to withstand 2.5 times the working pressure.
- Steam boiler is fitted with water level indicator, pressure gauge, low water cut off device and automatic pressure control devices. Fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining/clearing.
- This affords a complete safety to the working personnel against explosive opening.
- Two separate valves are provided for evacuating steam from inner chamber and jacket as and when desired.
- Sterilization cycle is controlled by single point multiport valve.
- The chamber discharge line is fitted with a moisture trap to absorb the condensate automatically thus preventing moistening of the loaded material to be sterilized.
- An automatic vacuum breaker is fitted to all units as a standard accessory in order to break vacuum in case of steam condensation.
- The flanged immersion type heating element made from a very high grade material provide fast formation of pressure in the system and are protected through a electric low water level cut off device.
- All sterilizers are provided with triple safety features through a "Piezostate" (automatic pressure control system) and a spring loaded safety valve fitted to the boiler/steam generator.
- The chamber is fitted with spring loaded safety valve and a dead weight release valve.
- To work on 220/230 or 440 volts, 3 phase, 50 Hz AC supply.

Model	SSMA-SA-HT78	SSMA-SA-HT115	SSMA-SA-HT162	SSMA-SA-HT165	SSMA-SA-HT221
Inner Dimension	400 x 600	400 x 900	400 x 1200	500 x 900	500 x 1200
Capacity	78	115	162	165	221
Heater Load	6 KW	6 KW	9 KW	9 KW	9 KW

TECHNICAL SPECIFICATION

Gasket: made of joint less silicon rubber.
 Exhaust pressure: manual through the exhaust valve
 Sterilizing pressure: 1.2 to 1.5 kgf/cm² (15 to 20 psi) at 121°C
 Operating pressure: from 15 psi to 20 psi
 Pressure gauge: 0.2.1 kgf/cm² (30 psi)
 Tubular stand and supporting ring: made of mild steel or stainless steel
 Pressure Vessel= SS 304 Grade Stainless Steel
 External Wall=SS 304 Grade Stainless Steel
 Top Lid=SS 304 Grade Stainless Steel
 Basket= SS 304 Grade Stainless Steel

1. Automatic pressure cut off switch
2. Digital temperature indicator cum controller
3. Vacuum breaker
4. Water level indicator
5. Automatic self locking system
6. Automatic low water cut off switch
7. Moisture trap



VERTICAL DOUBLE WALLED WING NUT AUTOCLAVE

- Inner chamber, outer chamber and support ring are fully made of stainless steel.
- Heaters cover stand and carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Brass knobs ensures user safety and safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device and water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground and polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bill drastically.

Model	SSMA-SA-VD22	SSMA-SA-VD40	SSMA-SA-VD50	SSMA-SA-VD78	SSMA-SA-VD98
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600
Capacity (Lt)	22	40	50	78	98
Heater Load(KW)	1.5	2	3	4	4

TECHNICAL SPECIFICATION

Sterilizing pressure=1.2kgf/cm² (15 psi) at 121°C
Operating pressure= from 15 psi to 22 psi (adjustable)
Power supply=220x230 AC, 50/60 Hz
Pressure Vessel= SS 304 Grade Stainless Steel
External Wall=SS 304 Grade Stainless Steel
Top Lid=SS 304 Grade Stainless Steel
Basket= SS 304 Grade Stainless Steel

1. Water Level Indicator
2. Stainless Steel Basket
3. Vacuum Breaker

OPTIONALLY AVAILABLE

- A. Automatic pressure control switch.
- B. Automatic low water cut off system.
- C. Micropro



Fully SS Wing Nut Model

VERTICAL TRIPLE WALLED HIGH PRESSURE WING NUT AUTOCLAVE

- Inner chamber, outer chamber and support ring are fully made of stainless steel.
- Heaters cover stand and carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Brass knobs ensures user safety and safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device and water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground and polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bill drastically.

Model	SSMA-SA-VT22	SSMA-SA-VT40	SSMA-SA-VT50	SSMA-SA-VT78	SSMA-SA-VT98
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600
Capacity (Lt)	22	40	50	78	98
Heater Load(KW)	1.5	2	3	4	4

TECHNICAL SPECIFICATION

Sterilizing pressure=1.2kgf/cm² (15 psi) at 121°C
Operating pressure= from 15 psi to 22 psi (adjustable)
Power supply=220x230 AC, 50/60 Hz
Pressure Vessel= SS 304 Grade Stainless Steel
External Wall=SS 304 Grade Stainless Steel
Top Lid=SS 304 Grade Stainless Steel
Basket= SS 304 Grade Stainless Steel

1. Water Level Indicator
2. Stainless Steel Basket
3. Vacuum Breaker

OPTIONALLY AVAILABLE

- A. Automatic pressure control switch.
- B. Automatic low water cut off system.
- C. Microprocessor based digital temperature indicator cum controller with set value and process value/digital timer.
- D. Microprocessor based digital temperature indicator cum controller with set value and process value/ timer and purgin



Fully SS Wing Nut Model

VERTICAL DOUBLE WALLED AUTOCLAVE



- Inner chamber, outer chamber & support ring are fully made of stainless steel.
- Heaters cover stand & carrier/bucket are made of stainless steel.
- Lid made of thick machined stainless steel plate.
- Radial locking lid ensures user safety & safe locking.
- Lid is fitted with pressure gauge, spring loaded safety valve, double safety valve, manual exhaust valve, vacuum breaker as a safety device & water level indicator.
- Drain valve facilitates easy cleaning of the chamber.
- Moulded joint less silicon rubber gasket.
- All internal joints are argon arc welded, ground & polished to give crevice free internals.
- Miniature circuit breaker for mains on/off plus safety of control panel.
- Industrial grade energy efficient heaters reduce power bills drastically.

Model	SSMA-SA-VD22	SSMA-SA-VD40	SSMA-SA-VD50	SSMA-SA-VD78	SSMA-SA-VD98
Inner Dimension	250 x 450	300 x 500	350 x 550	400 x 600	450 x 600
Capacity (Lt)	22	40	50	78	98
Heater Load(KW)	1.5	2	3	4	4

TECHNICAL SPECIFICATION

Sterilizing Pressure=1.2kgf/cm² (15 psi) at 121°C
 Operating Pressure= from 15 psi to 22 psi (adjustable)
 Power Supply=220x230V AC, 50/60 Hz
 Pressure Vessel= SS 304 Grade Stainless Steel
 External Wall=SS 304 Grade Stainless Steel
 Top Lid=SS 304 Grade Stainless Steel
 Basket= SS 304 Grade Stainless Steel

1. Water Level Indicator
2. Stainless Steel Basket
3. Vacuum Breaker

OPTIONALLY AVAILABLE

- A. Automatic pressure control switch.
- B. Automatic low water cut off system.
- C. Microprocessor based digital temperature indicator cum controller with set value and process vale/digital timer.
- D. Microp



ADVANCE BIOTECH SOLUTIONS INDIA PRIVATE LIMITED

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