

DIVERSIFIED **SERVICES.**  
UNVARYING **QUALITY.**



STEAM  
STERILIZERS



VERTICAL AUTOCLAVE  
AUTOCLAVE VERTICAL DELUXE  
HORIZONTAL CYLINDRICAL AUTOCLAVE  
HORIZONTAL RECTANGULAR AUTOCLAVE  
SLIDING DOOR AUTOCLAVE  
TABLE TOP/FLASH AUTOCLAVE CLASS B OR N  
INDUSTRIAL AUTOCLAVE  
STEAM CUM ETO STERILIZER



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# AUTOCLAVE VERTICAL

MODEL NO. : GTA-001



## DESCRIPTION

The inner chamber is made of SS 316, complete unit is constructed of SS 304 and is triple walled. The jacket outside the inner chamber is made of SS 304. The unit is complete in all respect with automatic water inlet valve, temperature controller cum indicator. Pressure stat, automatic water level indicator, mechanical timer.

## CONSTRUCTION AND SALIENT FEATURES

- » Inner made of Stainless Steel and outer made of Mild Steel/S.S.
- » Supporting Ring & Legs are made up of Mild Steel/S.S.
- » Heater cover with stand.
- » Bucket are made of Stainless Steel Sheet.
- » Lid is made of thick machined Mild Steel/S.S. plate lined with Stainless Steel from inside.
- » Lid is fitted with Pressure Gauge, Spring Loaded Safety Valve, Manual Exhaust Valve, and water level indicator.
- » Drain Valve facilitate easy cleaning of the chamber.
- » Fitted with silicon rubber gasket.
- » All internal joints are argon arc welded.
- » Pressure Control Switch and Low Water Level Cut-Off system for general safety of the element.
- » Operating range from 15psi to 22psi pressure.
- » To work on 220/230Volts, 50/60Hz AC supply.

## OPTIONS

- » PLC Controller Provider.
- » Double wall /Triple Wall.

## SIZE

SIZE OF INNER CHAMBER	CAPACITY	LOAD
250x450mm	22 Litres	2.00 KW
300x500mm	40 Litres	3.00 KW
350x550mm	50 Litres	3.00 KW
400x600mm	78 Litres	4.00 KW
450x600mm	98 Litres	6.00 KW
550x750mm	250 Litres	6.00 KW
Extra for Digital Timer Extra for Automatic Water Control		

CUSTOMIZED SIZE AVAILABLE.

# AUTOCLAVE VERTICAL DELUXE

MODEL NO. : GTA-001A



## DESCRIPTION

The construction is as per vertical autoclave designed to meet the Quality of any international standard. The lid & locking system is designed in such a way to be handled by a square handle at top. All the locking system and lid is made of Thick Gun Metal duly chrome plated. The outer is made of square Shape. Water level & pressure is locked in an enclosure. The castor wheels are provided at the bottom. Supplied with complete IQ, OQ & PQ documentation

## CONSTRUCTION AND SALIENT FEATURES

- » The outer body is rectangular in shape.
- » The lid and tightening system is provided of gun metal duly chrome plated.
- » It is complete with all the optional accessories thus having triple safety system.
- » It is supplied with extra heater which can automatically be used as & when required with separate switch.
- » Automatic water inlet valve.
- » Temperature controller cum indicator.
- » Validation port.
- » We can match this model with any world class autoclave.

## CAPACITY

- » 22 Litres
- » 40 Litres
- » 50 Litres
- » 78 Litres
- » 98 Litres
- » 150 Litres

## OPTIONS

- » Triple wall
- » Double wall
- » PLC controller instead of digital controller

# AUTOCLAVE PORTABLE STAINLESS STEEL

MODEL NO. : GTA-002



## DESCRIPTION

The body is constructed of STAINLESS STEEL 304/316. Suitable of general laboratory use as well as for field sterilization of instrument stand dressings etc. Dome shaped STAINLESS STEEL lid is provided which seals the autoclave with neoprene/silicone joint less gasket. The lid is tightened to the body when closed.

## CONSTRUCTION AND SALIENT FEATURES

- » The working pressure is 1.1 to 1.2Kg./cm<sup>2</sup> (15- 18PSI).
- » The sterilizer is made of STAINLESS STEEL. Sheet deep drawn to cylindrical shape.
- » The seamless construction allow no bacteria residue & free from dirt accumulation.
- » It is equipped with dial pressure gauge 0-30PSI, spring loaded safety valve, dead weight type safety valve and steam release valve.
- » The load is held in dressing drums (optional), which is supported on a stand (tripod) the autoclave is hydraulically tested at twice the working pressure as per ISI requirement.
- » It is fitted with ISI marked heater.
- » Supplied complete with plug & cord.
- » Suitable to work on 220/230 Volt, single phase, 50 Hz, AC
- » Size: 350 x300 (D x H)

## OPTIONS

These are also available from sizes of 5 Ltrs. to 15 Ltrs. Non Electric Models are also available

SIZE IN INCHES	CAPACITY IN LITRES
9 X 9 (Electric)	9 Litres
9 X 9 (Non-Electric)	9 Litres
9 X 11 (Electric)	11 Litres & 13 Litres
9 X 11 (Non-Electric)	11 Litres & 13 Litres
9 X 12 (Electric)	14 Litres
9 X 12 (Non-Electric)	14 Litres
9 X 13 (Electric)	15 Litres
9 X 13 (Non-Electric)	15 Litres
12 X 11 (Electric)	18 Litres & 20 Litres
12 X 11 (Non-Electric)	18 Litres & 20 Litres
12 X 12 (Electric)	23 Litres
12 X 12 (Non-Electric)	23 Litres
12 X 14 (Electric)	26 Litres
12 X 14 (Non-Electric)	26 Litres
12 X 16 (Electric)	30 Litres
12 X 16 (Non-Electric)	30 Litres
12 X 22 (Electric)	30 Litres

CUSTOMIZED SIZE AVAILABLE.

# AUTOCLAVE CYLINDRICAL HORIZONTAL

MODEL NO. : GTA-003



## APPLICATION

- » Double / Triple walled unit horizontally mounted on a sturdy, heavy Stainless Steel.
- » Both inner chamber and outer wall made of Stainless Steel.
- » Pressure is adjustable from 5-20psi.
- » Fitted with pressure gauge, safety valve and steam release valve.
- » Available with separate boiler.
- » For units fitted with S.S. Boiler, separate valves for injecting the steam into the main chamber and releasing the steam in atmosphere after use are provided.
- » Fitted with Automatic Pressure Control Switch.
- » Fitted with Dial thermometer to indicate the inner chamber temperature.
- » Lid is made of S.S. plate provided with radial locking system.
- » Industrial grade energy efficient heaters reduce power bills drastically.
- » As per the international standards and guidelines our triple walled Horizontal autoclave have a working temperature of 121 °c. however for specific requirements our autoclaves can be upgraded to be used for up to 134° c.

## OPTIONS

- » Automatic Vacuum Breaker is provided to break the vacuum in case of formation of vacuum due to steam condensation.
- » Automatic Low Water Level Cut-off Device fitted for general safety of the element.
- » PLC controller instead of digital controller.
- » 20% charges extra for double door in all sizes.
- » Double Door.

## SIZE/LOAD

INNER CHAMBER	CAPACITY IN LITRES	LOAD
400x600mm	78 Litres	6.00 KW
400x1100mm	138 Litres	12.00 KW
500x900mm	165 Litres	12.00 KW
500x1200mm	220 Litres	12.00 KW
Extra for PLC Controller instead of Digital Controller 25% extra for double door in all sizes		

## HIGH SPEED MODEL ALSO AVAILABLE (GTA-005-A)

- » The construction is same as per GTA-005 but provided with Vacuum system to be attached with vacuum pump.
- » The only size available is 400x 600 mm and by electric load shall be 18 KW to give fast Sterilization.
- » Air shall be removed from the Sterilization chamber after loading the Sterilizer by one or more pressure / Vacuum pulsing for proper steam penetration either manually or automatically through the automatic control system.

# AUTOCLAVE CYLINDRICAL HORIZONTAL

MODEL NO. : GTA-003-A



## DESCRIPTION

Genist Technocracy manufacture Microprocessor controlled Bench-top, pre and post vacuum autoclave with automatic temperature control system, self-test system before operation, self-test mode diagnose, fully automatic steam ejection and safety device containing safety valve, with vacuum Facility, automatic sterilization cycles and auto detections for steam sterilization of glass wares and plastic wares.

## TECHNICAL SPECIFICATIONS OF THE PRODUCT IS MENTIONED BELOW:

### MATERIAL OF CONSTRUCTION & SILENT FEATURES

- » Double / Triple walled unit horizontally mounted on a sturdy, heavy Stainless Steel 304/316.
- » Both inner chamber and outer wall made of Stainless Steel.
- » Fitted with Dial thermometer to indicate the inner chamber temperature.
- » Chamber and releasing the steam in atmosphere after use are provided.
- » Lid is made of S.S. plate provided with radial locking system.

### GASKET

- » Fitted with silicon rubber gasket.

### DOOR

- » Sterilizers have single or double door made out of rolled steel lined with stainless steel sheet on both sides.

### COMPONENT

- » Vacuum Pump & Water Feeding Pump.
- » Fitted with Automatic Pressure Control Switch.

### INSULATION

- » 75mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses.

### TEMPERATURE & POWER SUPPLY

- » As per the international standards and guidelines our triple walled Horizontal autoclave have a working temperature of 121 °C ,however for specific requirements our autoclaves can be upgraded to be used for up to 134°C.
- » Pressure is adjustable from 15-20psi.
- » To work on 440 Volts 3 Phase A.C. Supply.
- » Pressure gauge, safety valve and steam release valve.

### STEAM GENERATOR

- » Available with separate boiler.

### AUTOMATION WITH PRINTING FACILITY

- » Fully Automatic with PLC controller. Fitted with vacuum breaker to break vacuum in case of formation of vacuum due to steam condensation/Vacuum pump.
- » Automatic Low Water Level Cut-off Device fitted for general safety of the element.
- » Printing facility.

## QUALITY & STANDARDS

We are an ISO 9001:2008/WHO-GMP, CE, ISO 13485:2003 Certified company with strict quality control measures conforming to national and international standards.

## SIZE/LOAD

SIZE IN INNER CHAMBER (WXHxD)	CAPACITY IN LITRES	LOAD
400 x 600mm	75Litres	6.00 KW
450 x 600mm	100Litres	6.00 KW
400 x 1100mm	138Litres	12.00 KW
400 x 1200mm	150Litres	12.00 KW
500 x 900mm	175Litres	12.00 KW
500 x 1200mm	220Litres	12.00 KW
550 x 1250mm	300 Litres	12.00 KW
600 x 1200mm	355 Litres	12.00 KW
650 x 1200mm	430 Litres	12.00 KW

CUSTOMIZED SIZE AVAILABLE.

# AUTOCLAVE CYLINDRICAL HORIZONTAL SLIDING DOOR

MODEL NO. : GTA-003-A+



## DESCRIPTION

Genist Technocracy manufacture Microprocessor controlled Bench-top, pre and post vacuum autoclave with automatic temperature control system, self-test system before operation, self-test mode diagnose, fully automatic steam ejection and safety device containing safety valve, with vacuum Facility, automatic sterilization cycles and auto detections for steam sterilization of glass wares and plastic wares.

## TECHNICAL SPECIFICATIONS OF THE PRODUCT IS MENTIONED BELOW:

### MATERIAL OF CONSTRUCTION & SILENT FEATURES

- » Double / Triple walled unit horizontally mounted on a sturdy, heavy Stainless Steel 304/316.
- » Both inner chamber and outer wall made of Stainless Steel.
- » Fitted with Dial thermometer to indicate the inner chamber temperature.
- » Chamber and releasing the steam in atmosphere after use are provided.
- » Lid is made of S.S. plate provided with radial locking system.

### GASKET

- » Fitted with silicon rubber gasket.

### DOOR

- » Sterilizers have single or double door made out of rolled steel lined with stainless steel sheet on both sides.

### COMPONENT

- » Vacuum Pump & Water Feeding Pump.
- » Fitted with Automatic Pressure Control Switch.

### INSULATION

- » 75mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses.

### TEMPERATURE & POWER SUPPLY

- » As per the international standards and guidelines our triple walled Horizontal autoclave have a working temperature of 121°C ,however for specific requirements our autoclaves can be upgraded to be used for up to 134°C.
- » Pressure is adjustable from 15-20psi.
- » To work on 440 Volts 3 Phase A.C. Supply.
- » Pressure gauge, safety valve and steam release valve.

### STEAM GENERATOR

- » Available with separate boiler.

### AUTOMATION WITH PRINTING FACILITY

- » Fully Automatic with PLC controller. Fitted with vacuum breaker to break vacuum in case of formation of vacuum due to steam condensation/Vacuum pump.
- » Automatic Low Water Level Cut-off Device fitted for general safety of the element.
- » Printing facility.

## QUALITY & STANDARDS

We are an ISO 9001:2008/WHO-GMP, CE, ISO 13485:2003 Certified company with strict quality control measures conforming to national and international standards.

## SIZE/LOAD

SIZE IN INNER CHAMBER (WXHXD)	CAPACITY IN LITRES	LOAD
400 x 600mm	75Litres	6.00 KW
450 x 600mm	100Litres	6.00 KW
400 x 1100mm	138Litres	12.00 KW
400 x 1200mm	150Litres	12.00 KW
500 x 900mm	175Litres	12.00 KW
500 x 1200mm	220Litres	12.00 KW
550 x 1250mm	300 Litres	12.00 KW
600 x 1200mm	355 Litres	12.00 KW
650 x 1200mm	430 Litres	12.00 KW

CUSTOMIZED SIZE AVAILABLE.

# RECTANGULAR AUTOCLAVE HORIZONTAL

MODEL NO. : GTA-004



## DESCRIPTION

- » Construction Robust and rugged all weld construction which is leak proof unlike riveted construction. Inner chamber is made of thick plate of Mild Steel or non magnetic stainless steel of 304/316 quality and jacket is made out of rolled steel.
- » Sterilizers will have single door made out of rolled steel lined with STAINLESS STEEL sheet on both sides.
- » All the sterilizers are hydraulically tested to withstand 2.5 times the working pressure.
- » The steam jacket is lined on the outer side with asbestos sheet or glass wool which prevents heat losses due to radiation and is covered by strong rolled steel sheet duly painted.
- » Boiler Made of thick stainless steel plate suitably located under the sterilizer. High grade flanged type heating elements are fitted from front side for easy replacement/repair.
- » Fitted with water gauge glass for water level, safety valve, water inlet and drain valves.
- » It is also provided with Low Water Level cut off device. This device protects the heater in the generator from burning out dry.
- » All units are hydraulically tested upto 40psi.
- » Drain valve is fitted at the side bottom for easy draining/cleaning.
- » Triple walled with Steam Jacket and Separate Boiler. Sterilization cycle is controlled by Multiport Valve. The unit is fitted with all standard accessories.
- » To work on 440volts 3 Phase A.C. Supply.

## OPTIONS

- » The steam pressure in the boiler is indicated on an individual pressure gauge. Safety Lock for Door Every horizontal rectangular sterilizer is fitted with SELF LOCKING SAFETY DOOR which cannot be opened when the chamber is under pressure. The sterilizer is provided with triple safety.
- » Unit is also fitted with Low-Water Level Cut-Off device and automatic pressure control device
- » Fitted with vacuum breaker to break vacuum in case of formation of vacuum due to steam condensation.
- » PLC controller instead of digital controller.
- » 20% extra charges for double door.

## SIZE/LOAD

SIZE IN INNER CHAMBER (WXHXD)	CAPACITY IN LITRES	LOAD
450X450X900 mm	180 Liters	18 KW
450X600X900 mm	240 Liters	18 KW
600 x 600 x 900 mm	320 Litre	18 KW
600 x 600 x 1200 mm	430 Litre	27 KW
600 x 900 x 1500 mm	810 Litre	36 KW
900X1050X2100 mm	1980 Liters	48 KW
1050X1200X2100 mm	2600 Liters	60 KW

CUSTOMIZED SIZE AVAILABLE.

# HORIZONTAL RECTANGULAR AUTOCLAVE

MODEL NO. : GTA-004 A (Fully Automatic)



<b>Chamber &amp; Jacket</b>	SS 316 & ss 304
<b>Single Door/Double</b>	SS 304 Plates on contact & non
<b>Door</b>	Hinge Type Radial Looking
<b>Hinge &amp; Locking Rod</b>	SS 304
<b>Central Locking Parts</b>	SS 304
<b>Shooting Bolts</b>	SS 304
<b>Outer Insulation</b>	SS 304
<b>Operating Pressure</b>	2.1 kg/cm <sup>2</sup>
<b>Operating Temperature</b>	121°C   134° C / Bowie - dick Cycle
<b>Stand</b>	SS 304 Round Pipe
<b>Operation</b>	Auto/Manual (Both)
<b>Steam Generator</b>	SS 316 L
<b>Heating</b>	Immersion heaters
<b>Other accessories</b>	Stream trap, Pressure switch, float switch, Temp Sensor, Pressure Transmitter, Pressure Gauge, Temp Gauge, Non return valve, type solenoid valves, Vacuum Pump etc.
<b>Handling Accessories</b>	Fabricated with SS 304
<b>Basket Process with Printer</b>	Reports are generated by the software for each and every cycle in Detailed report.
<b>Wheels</b>	Adjusted to the floor
<b>Working Pressure</b>	Chamber & Jacket 2.5 kg/cm <sup>2</sup>
<b>Hydro test Pressure</b>	Chamber 3.5 kg/Cm <sup>2</sup> & Jacket 4.0 kg/cm <sup>2</sup>
<b>Inner Chamber</b>	Fabricated with SS 316 L
<b>Jacket</b>	Fabricated with SS 304
<b>Design Temperature</b>	121 & 134 degree centigrade
<b>Vacuum</b>	0-760 mm Hg

**DOOR:**

Door shall be fabricated from 304 Maximum operator safety.

» Process-lock to prevent opening of the door during the process.

» Process-lock to prevent the opening of the door after successful completion of the cycle.

**INSULATION:**

The sterilization chamber should be insulated with minimum of 50 mm thick R. B Glass Wool, which is held in place by an outer cover of SS 304. A 0.3- micron vacuum break.Air filter is to be provided on the sterile side for pressure equalization after vacuum creation .

**PIPING PACKAGE:**

All process piping in contact with the chamber shall be fabricated from SS 304 with argon welding. All connections and fittings used are sanitary tri-clamp with silicone seals. All noncontact piping shall be fabricated from SS 304 with argon welding. All drain lines and exhausts to be connected to a drain manifold. The pipelines should have a 2 % slope for full draining to prevent contamination. All pneumatic lines shall be polyurethane with aluminum die-cast connectors.

**VALVE PACKAGE:**

The process valves in contact with the chamber should be SS 304contact parts with Teflon seat and triclamp connections. All automatic valves to be pneumatically actuated angle valves. The valves to be actuated by instrument air controlled via solenoid valves.

**STEAM ACCESSORIES:**

The jacket and chamber are to be provided with an over pressure safety valve. The chamber is to be provided with a steam trap. The inside of chamber and doors are to be finished to a surface finish better than 0.8 Ra value. All other noncontact parts are to be polished to a surface finish better that 180 grit.

**PROCESS MANAGEMENT SYSTEM:**

The sterilizer is to be designed to perform a wide range of test and production programs to meet the latest regulatory requirements.

**TEMPERATURE AND PRESSURE SENSORS:**

Two sensors to be provided, one inside the chamber and one at drain outlet. For accurate process control and recording, all sensors are connected to be PLC and Recorder. The system must have a least count of 0.10 C.A pressure transmitter to be connected to the chamber. The system should have a Pressure least count of 0.002 bars.All utility lines to be provided with a pressure switches for generating an alam in case of utility failure.

**ELECTRICAL SWITCHGEAR:**

The control cabinet to be provided with a main isolator for the three phase supply and a separate switch for the control supply. The fascia of the control panel is provided with indication LED's and switches for operation.

**PROCESS RECORDING:**

All the switchgear :- Schneider do matrix data printer for recording-date,time , process parameters, process status, etc shall be provided alarms with machine.

**CONTROL PANEL CONTROL:**

System to be provided user friendly HMI as a front end user interface. Following minimum attributes shall be provided. RS 232 port for data communication. In-built Real Time Clock with date and time function.

**SAFETY:**

The process management system shall be provided with a series of safety and alarm features are as follows:

- » Cycle over.
- » Too long time to create vacuum.
- » Pressure Achieve.
- » Utility Failure Alarm.
- » No sharp corners should be present.
- » No welding edges.
- » Low water level.
- » Jacket pressure over
- » Chamber pressure over.

**SIZE/LOAD**

SIZE IN INNER CHAMBER (WXHxD)	CAPACITY IN LITRES	LOAD
450 x 450 x 900 mm	180 Liters	18 KW
450 x 600 x 900 mm	240 Liters	18 KW
600 x 600 x 900 mm	320 Litre	18 KW
600 x 600 x 1200 mm	430 Litre	18 KW
600 x 900 x 1500 mm	650 Litre	27 KW
600 x 900 x 1500 mm	810 Litre	36 KW
900 x 900 x 1200 mm	972 Litre	36 KW
900 x 1050 x 2100 mm	1980 Liters	48 KW
1050 x 1200 x 2100 mm	2600 Liters	72 KW
1200 x 1200 x 1800 mm	3000 Liters	90 KW

**CUSTOMIZED SIZE AVAILABLE.**



# AUTOCLAVE CLASS (B) OR (N) TABLE TOP

MODEL NO. : GTA-005



## CONSTRUCTION AND SALIENT FEATURES

- » Bench-top, pre and post vacuum autoclave with automatic temperature control system, self-test system before operation, self-test mode diagnose, fully automatic steam ejection and safety device containing safety valve, automatic sterilization cycles and auto detections for steam sterilization of glass wares and plastic wares.
- » Tank Capacity : 20 to 25 litres.
- » Stainless steel seamless chamber and epoxy coated chamber cover for more safety.
- » Sterilize cycle, dry timer and indicator lamps display on panel which allows the operator to visibly acknowledge the phase. It is having programmable based controller.
- » Safety locking mechanism that prevents opening while the autoclave is under Pressure. Complete control panel is provided in the front.
- » Steam release valve will exclude cool air and extra steam.
- » If electrical AC power is unavailable or is interrupted, the autoclave shall automatically shut off power and buzz to protect autoclave and instruments.
- » The autoclave controls are easy to operate. Just choose the mold and time you want first and then press start.
- » It is thoroughly tested and proven technology. (CE 1023 approved).
- » Uniform rubber gasket which endure high pressure and temperature with low dilatibility.

## SPECIFICATIONS

- » Sterilize temperature: 121°C or 134°C.
- » Electrical: AC 220V or 110V, 2100 watts / 220V and 1600 watt /110 V.
- » Water reservoir capacity: Approx. 5 L.
- » Safety device: safety valve, pressure regulator, and overheat protection.
- » Maximum Temperature: 150°C.
- » Maximum Pressure: 0.25mpa.
- » Warranty: One year.

# SLIDING DOOR AUTOCLAVE

MODEL NO. : GTA-006



## CONSTRUCTION

- » Construction Robust and rugged all weld construction which is leak proof unlike riveted construction. Chamber and jacket is made of thick plate of stainless steel of 316 .
- » Pass a hollow load (A) test (batch Monitoring System), High Vacuum compressor with recycling facility.

## DOOR

- » The equipment provided with vertical sliding single/double door. The door is fabricated from SS 316 quality material and sealing is done through movable silicon gasket pressurized by compressed air. Pressure gauge is provided for gasket.

## INSULATION

- » Glass wool Insulation to surface temperature of the sterilizer to be less than 45°C and it has low thermal conductivity and should not release any particles.

## DOOR GASKET

- » Silicon Door gasket and on commencement of the process the door gasket is pressed against the rear face the door by steam/air to ensure the doors remains closed during the process.

## CONTROL SYSTEM WITH CONNECTIVITY

- » Fully automatic microprocessor controlled horizontal steam sterilizer.
- » PLC based system have 4-5 color touch sensitive, LCD display interface.
- » With battery back-up & non-volatile memories. Digital input/output controls, analog measuring inputs & ports for PC connectivity.
- » Panel include various pressure and temp. Display for depiction of actual pressure/temp in chamber, jacket and on gasket.

## PASSWORD PROTECTION

- » Monitoring & documentation system and multiple password access levels will provided to control access/ operation of the machine preventing unauthorized access.

## PRINTER

- » Equipped with built thermal printer.

## DOOR SAFETY

- » The steam pressure in the boiler is indicated on an individual pressure gauge. Safety Lock for Door Every horizontal rectangular sterilizer is fitted with SELF LOCKING SAFETY DOOR which cannot be opened when the chamber is under pressure.

## ALARMS

- » Automatic process checking & failure correction.
- » Self - diagnosis and check the autoclave for the different audio/visual alarm situations.

## OTHER SAFETY

- » Power to shut off heaters, should water in the heating section fall below a preset level.
- » The terminals & contacts housed in a water tight cabinet.
- » Electronic water saving control - condensing the exhaust chamber steam with drain system designed to prevent pollutants to enter water supply & sterilizer.
- » Automatic process checking and failure correction should be possible by the control system. The range of alarm should include over temp. pressure sensor failure, phase time out, doors not properly closed, power failure (less than 10 sec should be ignored) continuous self-checking of all the safety devices, low water level, water in chamber etc. should be possible.

## STEAM GENERATOR

- » Separate Steam generator of suitable capacity for each sterilizer made of 316 Stainless Steel. Fitted with all safety & control devices.
- » Steam Generator have automatic operation for water level control energizes the water pump and supply valve to ensure proper water level in the boiler drum.

## VACUUM:

- » Electric vacuum system consisting of a multistage vacuum pump with a liquid ring that ensures removal of the air during the pre-vacuum stage.

## TEMPERATURE AND PRESSURE SENSORS

- » Working temperature 121 °C to 134 °C
- » To be work on 440VAC, 50 Hz, 3 Phase
- » condensate free 97-100 % saturated vapor complete with piping ,valves and pressure relief etc. delivery at 50-80 psig pressure.

## AIR FILTER

- » A disposable air filter provided by filtering the atmospheric air for entering inside the chamber.

## CYCLE

- » Designed to operate various programs.
- » Apart from standard pre- programmed cycles, special cycle should be programmed by an authorized supervisor code only.

## PROGRAMS INCLUDE

- » Wrapped instruments, Porous load 134°C / Heat Sensitive material, rubber, plastic, porous load 121°C (working holding temperature 121 °C to 134 °C )
- » Bowie & Dick test (7kg), PCD test / Leak test and equipped with pre-vacuum, gravity and also preferably with liquid cycle (121°C Liquid cycle for liquids & no drying time)
- » Automatic cycling and drying and indicating completion both visually and audible.

## LOADING / UNLOADING SYSTEM

- » Sterilizer have SS 304 internal carriage/ trolley and
- » 2 No.'s External trolley/carts equal to chamber depth for easy loading and un-loading of the material.

## DOCUMENTATION

- » Operation Manual of the equipment in English will be provided at the time of machine supply.
- » Calibration Certificate.
- » Warranty Certificate.

## DIRECTIVES & STANDARDS

- » Our firm is ISO 9001 and ISO 13485, CE & GMP, EN, ASME.PED,OHSAS, IEC 60601 certified .

SIZE IN INNER CHAMBER (WXHXD)	CAPACITY IN LITRES	LOAD
450 x 450 x 900 mm	180 Liters	18 KW
450 x 600 x 900 mm	240 Liters	18 KW
600 x 600 x 900 mm	320 Litre	18 KW
600 x 600 x 1200 mm	430 Litre	27 KW
600 x 900 x 1500 mm	810 Litre	27 KW

CUSTOMIZED SIZE AVAILABLE.

# INDUSTRIAL AGRICULTURE STERILIZER

MODEL NO. : GTMA-001



## CONSTRUCTION & SILENT FEATURES

Autoclave steam curing, also known as autoclave / pressure steam kettle tank, a large pressure vessel steam-cured for the aerated concrete, sand-lime brick, ash bricks ,Also be used in other pressure steam-cured production process of production projects, Such as gypsum, insulation materials, rubber products, cement pipe and wood, medicine, chemical industry and so on .The company also designed and manufactured according to user requirements in various forms of pressure vessel, in order to meet the needs of the user a variety of uses.

The horizontal tube-type reactor with the steel material plant, tank cover is pressed with one complete steel block 16MnR. Tank cover flange, vessel body flange overall forging processed by using 16Mn totally. The welding seam of pressure parts was heat treated and strict non-destructive testing according to relevant authority standards.

## DOOR WITH SAFETY FEATURES

Opening methods of the door structure is the active door autoclave structure, hoist reducer gear by hand to open and close, and also can be customized with electric, pneumatic, hydraulic hoist. Equipped with a perfect safety interlock protection device, the maximum to avoid the misuse risks to ensure the safe operation of autoclave and operator safety. Two types opening ways for the users to choose.: one side door open and open door to up or down . Side-door structure with rotating arm. Rotating flexible, low-operating, easy opening; on the use of lever-type door open institutions, lever bottom connecting the

Vessel door, the top equipped weight unit device, open the type of light weight, occupy small space for autoclave sideway place.

## CHAMBER DIMENSION &TEMPERATURE

Inside diameter (mm)	1000
Effective length (mm)	1800MM/2400MM
Design Temperature (°C)	121°C-134 °C
Temperature medium	Water
Open-door fashion	Manual operation
Sealing	Pneumatic
Control panel	Automatic

# STEAM CUM ETO STERILIZER

MODEL NO. : GTSE-001



## SPECIFICATIONS

- » End ring hydraulically formed without joints to sustain required pressure. All other joints Argon Arc welded.
- » Unique MULTIPORT VALVE located at the top. Controls all operations manually.
- » Two safety valves (dead wt. & spring loaded) and a pressure switch provided to prevent accidental pressure build up.
- » Works on 134°C at 32 psi. (2.1 kgf/cm<sup>2</sup>)
- » Hydrostatically tested 2 times the working pressure.
- » Best suited for rapid sterilization of instruments for Cardiac, Ortho, Neuro and Urology.
- » Vacuum Pump provided along with the unit.
- » Power: 18 kW, 440 V, 3-phase.
- » First Cycle: 35 mins. 20 mins. Preheating time, 15 mins. Actual time. Subsequent – 09 mins.

## PREMIUM TECHNOLOGIES

- » Locking System: Manual safety lock provided on door.
- » Low water level protection for heaters.
- » Pressure lock device for the door.
- » Instruments come out dry after the cycle.

## APPLICATIONS

- » **Steam:** Effective sterilization for general OT Tools.
- » **ETO:** Used to sterile disposables & materials with low melting point.

SIZE OF INNER CHAMBER (Dia x Depth) mm	CAPACITY (Ltr.)	LOAD
400 x 600 mm	78 Liters	6.00 kw
400 x 1100 mm	138 Liters	12.00 kw
500 x 900 mm	165 Liters	12.00 kw
500 x 1200 mm	220 Liters	12.00 kw
600 x 1200 mm	350 Liters	15.00 kw

CUSTOMIZED SIZE AVAILABLE.