
APS™
COMPLETE OSSD SOLUTIONS
STERILIZERS
Specially designed for all your specialized needs

Vertical Autoclave (Double wall)



Salient features

- Used for sterilization under saturated steam pressure at any selected point between15 to 22 psi (adjustable), however this can be used for higher pressure up to 30 psi.
- Working temperature of 121°C.
- These double walled units have inner chamber (Boiler) made of stainless steel SS 304 / SS 316 grade (as per demand).
- Outer wall is covered with stainless steel sheet.
- Thick stainless steel lid is tightened by radial locking system and can be lifted through a pedal lifting device for user comfort
- Fitted with joint less neoprene rubber gasket.
- Systems are hydraulically tested up to 40 p.s.i. as a Safety Measure.
- All autoclaves are fitted with standard accessories such as PID controller, water indicator / water level gauge, pressure gauge, steam release cock, spring loaded safety valve, Vacuum Breaker, pedal lifting device and heating element.
- Space between boiler and outer shell works as air insulation however we may incorporate mineral glass wool insulation if customer desires.
- Heating is done through specially designed water heaters of suitable wattage to ensure optimum sterilization time in every sterilization cycle.
- Supplied complete with S.S. basket, cord and plug.
- Supplied with cord and plug to work on 220/230 volts A.C. Supply.

Model	APS-VA-20	APS-VA-40	APS-VA-50	APS-VA-85	APS-VA-100
Volume (Liters)	22	35	50	85	100
Heater load (KW)	1.5	2	3	4	5
Internal dimension (dia x height mm)	250 x 450	300 x 500	350 x 550	400 x 600	460 x 600

NOTE: CUSTOMIZED SOLUTION ALSO AVAILABLE ON REQUEST

Horizontal High Pressure Cylindrical Steam Sterilizer



Handsomely Made For Long Service and to provide easier and surer Sterilization for use in Hospitals, Nursing Homes, Pharmaceutical Industries and Laboratories.

CONSTRUCTION: Both chambers, back plate, ring and steam generator are made of strong 304 G / 316 stainless steel. All joints are strongly argon welded and completely leak proof. The outer jacket is thickly insulated which prevent heat loss due to radiation and covered with stainless steel sheet for elegance. All sterilizers are hydraulically tested upto 2.5 times of working pressure. By mean of steam under pressure of 5 to 22 PSI ± 3 PSI (Adjustable). The unit is fitted with PID controller, timer alarm, **Automatic pressure control switch, water level indicator, Temperature gauge, vacuum breaker and vacuum drying facility with Moisturizing trap.** Mounted on tubular M.S. frame with ground levelling flanges.

SAFETY DOOR: Provided with a positive radial locking safety door with neoprene rubber/ silicon gasket which cannot be opened while the chamber is under pressure and disengages automatically when chamber is exhausted. This affords complete safety to the working personnel against explosive opening.

Note : Sterilization cycle is controlled by three way valve or multiport valve (Optional) Technical Specification :

Size	Cap. Approx.	Element	Load
A) 400x600 mm (16"x24")	75 ltrs.	9 KW (1Pc.)	9KW
B) 400x1200 mm (16"x48")	150 ltrs.	6 KW (2Pcs.)	12KW
C) 500x900 mm(20"x36")	176 ltrs.	6KW(2Pcs.)	12KW
D) 500x1200 mm (20"x48")	235 lfts.	6KW(2Pcs.)	12KW
E) 600x1200 mm (24"x48")	339 ltrs.	9KW(2Pcs.)	18KW

Note: Working sterilization temp. 121°C/134°C Power Supply 440V, 3 Phase Power supply, Single phase, 220V AC on request

OPTIONAL ATTACHMENT AT EXTRA COST:

1) S.S. Stand.

2) Digital timer and temperature Display.

3) Double door system.

4) Working sterilization temp. 134°C on request

5) Automatic control system with software, solenoid valve and printer. i

Model	Inner Dimension	Capacity Ltr.	Heater Load	Sterilization temp & Pressure	Operating Pressure
APS – HAC – 110	16”x 24”	75	6 kW	1.2 Kg/cm2 (15-18psi) at 121°C	From 10 psi to 20 psi
APS – HAC – 120	18” x 24”	100	6 kW		
APS – HAC – 130	16” x 44”	140	9 kW		
APS – HAC – 140	22” x 30”	180	12 kW		
APS – HAC – 150	20” x 48”	250	12 kW		
APS – HAC – 160	24” x 48”	340	14 kW		

NOTE: CUSTOMIZED SOLUTION ALSO AVAILABLE ON REQUEST

Horizontal (Rectangular) High Pressure Steam Sterilizer



TRIPLE SAFETY : The sterilizer is provided with triple safety.

(a) By a pressure control switch which automatically limits the pressure to the required set valve.

(b) Two spring loaded safety valves one each at chamber and boiler level.

(c) A dead weight safety valve at chamber level. A PLUG SCREEN prevents the discharge line from choking. The plug is easily removable for routing cleaning.

A powerful Ejector (for drying sterilized linen) circulates air through the chamber. The circulating air passes through a corrosion resistant metal wool filter.

A Dial thermometer is provided to show the chamber temperature.

AUTOMATIC VACUUM BREAKER is provided to break vacuum case of vacuum formation due to steam condensation.

Operating Temperature and pressure :– Sterilizing Temp. : 121°C.

Sterilizing Pressure : 1.2 to 1.5 kg/Cm2,

(15 psi to 22 psi)

Model	Inner Dimension	Capacity Ltr.	Heater Load	Sterilization temp & Pressure	Operating Pressure
APS – HAR – 110	18” x 18” x 36”	180	12 kW	1.2 Kg/cm2 (15-18psi) at 121°C	From 10 psi to 20 psi
APS – HAR- 120	18” x 24” x 36”	240	12 kW		
APS– HAR – 130	24” x 24” x 36”	320	15 kW		
APS– HAR – 140	24” x 24” x 48”	430	18 kW		
APS– HAR – 150	24” x 24” x 60”	540	22 kW		
APS– HAR – 160	24” x 24” x 72”	650	36 kW		
APS– HAR – 160	30” x 36” x 60”	1000	45 kW		

NOTE: CUSTOMIZED SOLUTION ALSO AVAILABLE ON REQUEST

ETO Sterilizer



Features:

- Highly Efficient
- Impeccable finish
- Sturdiness

Standard Chamber Dimension:

2 Cu Ft	12” (H) x 12” (W) x 24” (D)	300 x 300 x 600 mm
4 Cu Ft	12” (H) x 12” (W) x 48” (D)	300 x 300 x 1200 mm
5 Cu Ft	15” (H) x 18” (W) x 36” (D)	375 x 450 x 900 mm
8 Cu Ft	18” (H) x 18” (W) x 42” (D)	450 x 450 x 1050 mm

NOTE: CUSTOMIZED SOLUTION ALSO AVAILABLE ON REQUEST

Specifications

1. Main Vessel * Inner Seal:The chamber will be fabricated with a complete argon welded SS 316 nonmagnetic sheet.
2. Heating:Surface heaters mounted on the chamber.
3. VACUUM: Vacuum pump/ventury for vacuum pulsing and air wash is used.
4. Automation: The machine is provided with PLC based automation along with an LCD HMI which allows the operator to:
   (a) Change and set the parameters
   (b) Run the cycle according to pre-selected cycles.
   (c) Monitor various phases / individual parameters during the Process.
   (d) View on/off status of the various components of the machine while the cycle is in progress.
   Software for controlling, monitoring and recording of various parameters is provided.
   This makes it is possible to operate and monitor the machine by connecting it with any computer where the SCADA software is loaded, apart from running it from the machine itself.
   The above devices control and regulate all the functions of the machine. It makes the system user friendly and allows the operator to change the process parameters as and when necessary.
   The advantage of the above is that the system can carry out multiple programs. It includes features like
   i. Password protection for unauthorized access.
   ii. Analog input of process pressure/vacuum.
   iii. Digital/Analog input for temperature. Temperature is indicated in the sterilization area, by the use of a temperature sensor.
   iv. One pressure/vacuum sensor for display of the current pressure/vacuum, that the load is subjected to, at all times during the process.
5. CYCLE RECORD: The Software provided maintains total records required for process parameters during the sterilization cycle. These records are necessary for meeting CE or EN550 norms of sterilization.
   The software holds records in memory of the external drive for 6 months to one year. The data can easily be copied on a computer. Hence, this proves to be cost-effective as far as maintaining lengthy records is concerned. It eliminates the need for taking print-outs after every cycle and also saves on expensive thermal printing.
6. PIPING & VALVES: All the fittings used for the accessories and the main vessel are fabricated from SS 316 stainless steel. All the valves used in the process lines are SS 304/brass/Teflon construction Ball valves. (All standard makes) .
7. TESTING: Pressure testing and vacuum testing as per specified standards. (1.5 times the working pressure)
8. OPERATION: All functions are automatic. The door closing is manual.
9. GUARANTEE: All the various components of the ETO Sterilizer, as listed shall carry a guarantee for the period of ONE year from the date of Invoice. The terms of this guarantee shall be specified in the accompanying documentation:

Ultrasonic Cleaner

Tank Dimension (LXBXH in mm	Capacity (liters.)	Ultrasonic Power in Watts
235x135x65	1.5	50
235 x135x100	2.25	60
300x150x100	3.5	100
250x150x150	5.5	150
300x150x150	6.5	200
300x180x150	8.0	200
300x200x150	9.0	250
300x230x150	10.0	250
300x300x150	12.0	300
350x300x200	21.0	400
400x300x250	27.0	500



We have uniquely positioned ourselves as one of the topmost enterprise, extremely efficient in manufacturing, supplying & trading an exquisite gamut of Ultrasonic Cleaner. The offered cleaner can be easily fitted with casters to enable its portability from one place to another with no hindrance. This ultra sonic cleaner is generally used in research institute, optical lens, jewellery, PCB cleaning, eye hospitals and for dental/eye surgical instruments. Furthermore, it is highly compact and takes very little space on shop floor.

Features:
Easy to use
Chemical and Acid resistance
Rugged design

Specifications :

- Tank size(mm): 530 x 300 x 150 (LxWxH)
- Ultrasonic Frequency: 33 KHz / 40 KHz
- Power(W): 400 W

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Washer Disinfector



Leveraging on our in-house manufacturing unit, we manufacture, export, distribute, wholesale and supply a wide assortment of Washer Disinfector. These washer disinfectors are applauded by large number of clients owing to its high quality and durability. The offered washer disinfectors are designed at our state-of-the-art manufacturing unit with highly advanced technologyunder the keen observation of our competent professionals by using the finest quality raw material. These washer disinfectors are available in market on various specifications at nominal rates.

Features:
Designed with excellence
High performance
Durability

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