



RECTANGULAR HORIZONTAL HIGHPRESSER AUTOCLAVE MODEL UMS-505
CONSTRUCTIONAL AND SALIENT FEATURES

- Inner Chamber is made up of thick non-magnetic steel of 304/316 quality and jacket is made out of rolled steel.
- Single door made of rolled steel lined with S.S. sheets has radial locking system.
- All units are hydraulically tested upto 40psi.
- The space outer cover made of thick rolled steel sheet and the steam jacket is filled with asbestos sheet or glass wool to minimize thermal losses.
- Boiler is made of thick stainless steel sheet and is located under the sterilizer.
- Unit is fitted with water level indicator, safety valve, pressure gauge, water inlet and drain valves.
- Unit is also fitted with low-water level cut-off device and automatic pressure control device.
- All rectangular sterilizers are fitted with SELF LOCKING SAFETY DOOR device.
- The door cannot be opened when chamber is under pressure.
- Two separate valves are provided for evacuating steam from inner chamber and jacket, as and when desired.
- Fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining/cleaning.
- Fitted with vacuum breaker to break vacuum in case of formation of vacuum due to steam condensation.
- 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 440 volts, 3 Phase, A.C. Supply.

Technical Specifications & Ordering Informations,

MODEL	UMS-505A	UMS-505B	UMS-505C
Inner Dimensions (WXHxD) (mm)	450X450X900	600X600X900	600X600X1200
Capacity	180 ltrs	320 ltrs	430 ltrs
Heater load	6.0 KW	9.0 KW	9.0 KW
Controller	Automatic Piezostat (Pressure Control Switch)		
Display	Dial Thermometer		
Exhaust of Pressure	Manual through a Multiport valve		
Sterilizing Pressure	1.2 to 1.5 kgf /cm ² (15 to 20 psi) at 121°C		
Operating Pressure	From 15 to 20 psi		
Pressure Gauge	0-2.1 kgf /cm ² (30 psi)		
MOC (Pressure Vessel)	Stainless Steel (SS-304 or SS-316 as Ordered)		
MOC (Jacket)	Made of COLD ROLLED STEEL		
MOC (Boiler)	Stainless Steel		
MOC (External Wall)	Mild Steel Sheet Duly Painted		
MOC (Lid)	Mild Sheet Duly Painted lined with S.S. from inside		
POWER SUPPLY	440V AC, 3 Phase Supply		

HORIZONTAL HIGH PRESSER AUTOCLEVA MODEL UMS-507

Horizontal Triple Walled Autoclaves are most ideal for critical applications requiring assured and reliable total destruction of all living micro-organisms. All ideal tool for Laboratories, hospitals, nursing home, R&D labs etc.

CONSTRUCTIONAL AND SALIENT FEATURES

- The inner chamber, steam jacket, outer chamber and boiler are made of heavy gauge stainless steel with leak proof argon arc welding. Lid is made of thick machined Mild Steel plate lined with stainless steel from inside.
- 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 device.
- Fitted with safety valve as a safety device.
- Drain valve is fitted at the side bottom for easy draining/cleaning. The unit is provided with a positive self-locking safety door 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.
- Two separate valves are provided for evacuating steam from inner chamber and jackets 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 very high grade material provides fast formation of pressure in the system and are protected through a electric low water level cutoff device.
- All Sterilizers are provided with triple safety features, through a "PIEZOSTAT" (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.
- Highly accurate temperature indicator is fitted for monitoring temperature.
- To work on 440Volts, 3phase, 50Hz AC supply.

Technical Specifications & Ordering Informations,

MODEL (With Tubular Stand & Supporting Ring of S.S.)	UMS-507A	UMS-507B	UMS-507C
MODEL (All S.S. Body)	UMS-507A	UMS-507B	UMS-507C
Inner Dimensions (Dia x Depth)	400x600 mm	400x900 mm	500x1200 mm
Capacity	88 ltrs	165 ltrs	221 ltrs
Heater Load	6.0 KW	9.0 KW	12.0 KW
Gasket	Made of Jointless Silicon Rubber		
Display	Dial Thermometer (Standard with the unit)		
Exhaust of Pressure	Manual through a Exhaust valve		
Sterilizing Pressure	1.2 to 1.5 kgf /cm ² (15 to 20 psi) at 121°C		
Operating Pressure	From 15 Psi to 20 Psi		
Pressure Gauge	0-2.1 kgf /cm ² (30 psi)		
MOC (Pressure Vessel)	Stainless Steel (SS-304)		
MOC (Jacket)	Stainless Steel (SS-304)		
MOC (External Wall)	Stainless Steel (SS-304)		
MOC (Boiler)	Stainless Steel		
MOC (Lid)	Made of thick machined Stainless Steel plate		
POWER SUPPLY	440V AC, 3 Phase Supply		
Tubular Stand and Support Ring	Made of mild steel or stainless steel (as ordered)		
Double Door (OPTION)	Option available at extra cost		



Vertical High Presser Autoclave (UMS - 506)

Technical specification

Inner chamber size 16x24 trip pal valves Most useful for sterilizing the loaded material under a steam pressure of 10 to 20 p.s.i. (adjustable). It has inner chamber, steam jacket and outer wall made of S.S. duly argon welded. The space between outer wall and steam jacket is filled with high grade glass wool to minimize the temperature loss. All sterilizers are hydraulically tested upto 40 p.s.i. The lid is made of thick Stainless Steel/Gun Metal and closed by wing nut/radial type closing arrangement. Fitted with a gasket made up of neoprene rubber, safety valve, water level indicator, steam release valve, pressure gauge and S.S. basket. Supplied complete with cord and plug to work on 220/230 volts A.C. supply. Fitted with vacuum breaker as a safety device. Feturs Redial locking systems, digital timer –tempracher low water cut off alarm