



MAC

VERTICAL HIGH PRESSURE STEAM STERILIZER WITH DRY CYCLE MSW-102(PROFAD)

**TRIPLE
WALLED**



- ◆ Backed with 56 years of service to science and our expertise in steam pressure sterilization autoclaves. Our Top Loading PRO Series Autoclaves are the ideal companion for the modern microbiologists and institutes, pharma companies, hospitals etc.

APPLICATIONS

- ◆ "MAC" Triple Walled High Pressure Automatic Digital Autoclaves are most ideal for critical applications requiring assured and reliable total destruction of all living micro-organisms.
- ◆ These are automatic models requiring tighter control of temperature and sterilizing time, thus eliminating any chances of under or over exposure of media/ samples with respect to temperature and hold time.
- ◆ Triple Walled High Pressure Vertical Autoclaves are used where Dry Sterilization is required.
- ◆ Leakproof silicon gasket
- ◆ Over pressure safety
- ◆ Safe and sturdy chamber manufactured from Stainless Steel (SS-304)
- ◆ Chamber is designed as per ASME guidelines.
- ◆ Low water level cut off for safety of heating elements.
- ◆ Independent safety for over temperature protection.
- ◆ Saves Power bills by upto 30%
- ◆ Outer body made of Stainless Steel.
- ◆ Electrical on/off safety switch
- ◆ Easy draining of chamber
- ◆ Easy portability and placement and movement
- ◆ With pressure interlock device. Heater will not start if cover is open.
- ◆ Audio visual alarm and heater cut off in case of low water for the safety of the heater elements.
- ◆ Smooth finished joint for crevice free internal chamber.
- ◆ Fitted with stainless steel pressure gauge with DUAL range dial pressure display in KPA & PSI.
- ◆ Sterilization hold time is settable in steps of 1 minutes each

- Single lever facilitates ergonomic and convenient use and ease of loading and unloading
- Highest Quality Standards
- Repeatability and accountability.
- Minimal footprint
- Optimal loading capacities with standard erlenmeyer flasks and media bottles.
- Liquid Sterilization

CONTROL PANEL AND SWITCHGEARS

- ♦ μ Processor based Controller with time and temperature settable by user.
- ♦ Operating range from 15 to 30 psi pressure. (adjustable)
- ♦ Dual Pt-100 sensor, enabling precise and accurate monitoring.
- ♦ Miniature Circuit Breaker for MAINS On/Off plus safety of control panel.
- ♦ Industrial grade energy efficient heaters reduce power bills drastically.
- ♦ To work on 430/440 Volts, 3 Phase AC supply.

CONSTRUCTION & SALIENT FEATURES

- ♦ Sterilizing Chamber, Steam Jacket and outer chamber are made of stainless steel (SS-304 grade).

- ♦ 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, Manual Exhaust Valve, Vacuum Breaker-cum-Purge Valve as a safety device and audio/visual electronic water level indicator on panel.
- ♦ Drain Valve facilitates easy cleaning of the chamber.
- ♦ Moulded jointless silicon rubber gasket.
- ♦ All internal joints are argon arc welded.
- ♦ Mounting Legs, lifting rod and pedal mechanisms are made of stainless steel (SS-202).
- ♦ Control panel box of Stainless Steel (SS-202).

TECHNICAL SPECIFICATIONS & ORDERING INFORMATION

MODEL	#VSS-43DC (PROFAD)	#VSS-64DC (PROFAD)	#VSS-91DC (PROFAD)	#VSS-135DC (PROFAD)
Gross/Effective Useable Capacity	43/40 ltrs.	64/53 ltrs.	91/78 ltrs.	135/113 ltrs.
Working Chamber Dimensions	Ø300x500mm	Ø350x550mm	Ø400x600mm	Ø450x710mm
Heater Load	3.0 KW	3.0 KW	4.0 KW	4.0 KW
Gasket	Made of Jointless Silicon Rubber			
Controller (PLC Based)	Microprocessor Based Fully Automatic Fuzzy Logic Control System			
Controller	Fitted with AUTOMATIC DIGITAL MINUTE TIMER which starts automatically when set/desired value of temperature is achieved. When the set time period is over the heaters get switched off automatically with alarm for cycle end			
Buzzer (Cycle End)	Yes			
Buzzer (Low Water Cut Off)	Yes			
MOC (Sterilizing Chamber)	Stainless Steel (SS-304)			
MOC (Steam Jacket)	Stainless Steel (SS-304)			
MOC (External Wall)	Stainless Steel (SS-304)			
MOC (Top Lid)	Thick machined stainless steel plate (SS-304)			
Sterilizing Pressure	Upto 15 Psi / 30 Psi			
Operating Pressure	From 15psi to 22psi (adjustable)			
Operating Parameters	Upto 121°C at 15 psi OR Upto 134°C at 30 psi			
Pressure Gauge	For pressure indication			
Exhaust of Pressure	Thru solenoid valve			
Power Supply	430/440V AC, Three Phase AC Supply			

OPTION

- a) TFT Touch Screen Display Controller in lieu of LED/LCD Controller



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