

ADVANCE -SERIES

HIGH PRESSURE HORIZONTAL STERILIZER / AUTOCLAVE (ADVANCE)



MODEL : MA-10HR (ADVANCE) / MA-10H (ADVANCE)

TECHNICAL SPECIFICATIONS

Robust and rigid construction designed for all type of bulk sterilization which are commonly needed in Medical, Agricultural and Pharmaceutical Institutions.

CONSTRUCTION : Triple walled with steam jacket and Separate boiler. Inner chamber and steam jacketed are made up of Heavy gauge S.S 304 with leak proof argon-arc welding.

All the sterilizers are hydraulically tested to withstand 2.5 time the working pressure. Mounted on tubular steel frame with ground leveling screwed flanges.

The Outer jacket is wrapped with asbestos sheet or glass wool and is covered by polished Stainless Steel 304.

STEAM GENERATOR : Made of heavy Stainless 304 with gauge. Glass for water level indication. Fitted with flange type S.S. heating elements and Automatic low water level cutoff device of protect the former from burning out dry.

PRESSURE CONTROL : The "PIEZOSTAT" (Pressure Control Device) economize on power consumption and reduces. The frequent opening of the steam release valve.

HEATING ELEMENTS : Flanged type, immersion heating elements are made of high grade material.

SAFETY DOOR : The sterilizer has single piece S.S. 304 Door :

Sterilizer hinged radial-locking door and cannot be opened when under pressure.

PROCESS CONTROL : Microprocessor with HMI facility with datalogger with display of chamber temperature, cycle, low water level. Recording facility with date, temp. time, batch no., cycle no., alarm indicator. Complete automatic cycle without any human intervention. The data can be retrieved in PEN Drive and viewed on PC and print out can be taken on printer.

Complete sterilizing cycle is controlled automatically.

Easily readable jacket and chamber pressure on gauges.

A moisture trap is fitted in the chamber discharge line to absorb the condensate automatically to prevent moistening the subject matter to be sterilized.

OTHER FEATURES :

- Triple Safety : the Sterilizer is provided with the triple safety features. At the boiler level by a PIEZOSTAT which automatically limits the pressure to the required set value and a spring loaded safety valve in case of its failure which releases the steam to keep pressure within the safety limits. At the chamber level, a spring loaded safety valve to release the steam in case the pressure exceeds the safety limit. All these safety features function independent of one another and sequentially i.e. one takes over the charge in case of other's failure.
- A plug screen prevents the discharge line from choking. The plug is easily removable for daily cleaning.
- A Dial thermometer / Digital Temp. Indicator is provided to show the chamber temperature.
- Vacuum breaker is provided to break vacuum in case of formation of vacuum due to steam Condensation.

OPERATING TEMPERATURE :

Sterilizing temp. : 121°C / 134°C

Sterilizing Pressure : 1.2 to 1.5 kg / cm² (15psi to 22psi)

Power Requirement : Suitable to operate on 415 V volts. 3ph, 50Hz, AC supply.

RECTANGULAR HORIZONTAL STERILIZER

CAPACITY	LENGTH (mm)	HEIGHT (mm)	DEPTH (mm)
291 ltrs/	561	561	: 11
336 ltrs/	611	611	: 11
411 ltrs/	611	611	2311
651 ltrs/	771	771	2361
: 83 ltrs/	: 11	: 11	2311
2326 ltrs/	: 11	: 11	2611

OPTIONAL ATTACHMENT AT EXTRA COST :

1. SS 316/304 Loading / Unloading Trolley Carriage.
2. Steel (Power Coated) Tubular Transfer trolley for carriage.
3. Double Door System.

CYLINDRICAL HORIZONTAL STERILIZER

CAPACITY	DIA (mm)	DEPTH (mm)
86 ltrs/	511	711
261 ltrs/	511	2211
286 ltrs/	611	: 11
291 ltrs/	661	861
351 ltrs/	611	2311
396 ltrs/	661	2311

4. Chamber Inside, Outside, Jacket & Door of Stainless Steel 316 instead 304.
5. Water Ring Vacuum Pump to create vacuum of 24 inch Hg (at 30°C).
6. High pressure feed water pump, for automatic filling of water into steam generator under pressure.

