

# HIGH PRESSURE RECTANGULAR HORIZONTAL STERILIZER

## MODEL NO. RIC-34EH SERIES



### APPLICATIONS

*Robust and rigid construction.*

*Triple walled Horizontal Autoclaves (for Dry Sterilization Steam Jacket & Separate Boiler) are most ideal for bulk sterilization requiring assured and reliable total destruction of all living micro-organisms. It is based on the principle that microbiological action of saturated steam at elevated temperature is rapid and thorough.*

*Triple walled Horizontal Autoclaves is ideal tool for Laboratories, Hospitals, Nursing Homes, Agricultural R&D labs etc, Pharmaceutical, Food & Beverage Industries and Institutions.*

*Suitable for Sterilizing hospital dressings, linen, rubber, plastic goods, surgical instruments, glasswares, utensils etc.*

### SALIENT FEATURES & CONSTRUCTION

*These Autoclaves work on the principle of downward displacement of air which is the most economical method of obtaining sterilization.*

*Triple walled with inner chamber and separate boiler is made up of Heavy gauge non magnetic S.S. Sheet (304/316 grade) argon-arc welded and jacket is made out of rolled steel.*

*Boiler Made of thick stainless steel fitted 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. provided with Low Water Level cut off device.*

*Whole unit horizontally mounted on a sturdy, heavy M.S. duly painted or Stainless steel tubular stand.*

*Lid (single piece door) made out of rolled steel lined with S.S. sheet on both sides tightened by Radial Locking System which cannot be opened when under pressure. The self-locking device automatically disengages the thread mechanism when the sterilizer is under pressure to preclude any eventuality of accident.*

*Sealing of Lid by Neoprene Rubber Gasket.*

*Sterilization cycle is controlled by single point multi port valve fitted at front top. Pressure gauges are fitted to read jacket & chamber pressure on the top. A moisture trap is fitted in the chamber discharge line to absorb the condensate automatically to prevent moistening in the chamber.*

*Chamber Insulated by Mineral/Glass Wool to minimize the heat losses and is covered by polished stainless steel sheet.*

*Fitted with pressure gauge, safety valve and steam release valve.*

*Fitted with plug screen to prevent the discharge line from choking.*

*Drain valve is fitted at the side bottom for easy draining/cleaning.*

*Sterilizing Temperature up to 134°C.*

*Sterilizing pressure : 1.2 to 1.5 kg/cm<sup>2</sup> (15 psi to 22psi)*

*Hydraulically Tested up to 40 psi.*

Fitted with Automatic Vacuum Breaker to break the vacuum in case of formation of vacuum due to steam condensation.

Fitted with Automatic Low Water Level Cut-off Device for Prevention of Heaters.

Fitted with Automatic Pressure Control Switch to economizes power consumption by reducing frequent opening of the steam release valve. It cuts off the power supply to heaters when the set pressure is achieved and re-energizes the heating elements when pressure falls below the set point.

Fitted with Dial thermometer to indicate the inner chamber temperature.

Control panel fitted with Pressure control switch, Main switch, Pilot lamps, relays etc. and mounted on the stand of the sterilizer for easy operation.

Voltage: 440 volts, 3 phase A. C. Supply

### TECHNICAL SPECIFICATIONS

PARAMETERS	MODEL RIC-EHA	MODEL RIC-EHB	MODEL RIC-EHC	MODEL RIC-EHD
Inner Dimensions (W X H X D)	450 x 450 x 900mm	450 x 600 x 900mm	600 x 600 x 900mm	600 x 600 x 1200mm
Inches Conversion	18 x 18 x 36	18 x 24 x 36	24 x 24 x 36	24 x 24 x 48
Capacity	180 ltrs	240 ltrs	320 ltrs	430 ltrs
Working Load	12.0 KW	12.0 KW	18.0 KW	36.0 KW
Working Pressure Gauge			10-20 psi	
Pressure Gauge			0-30 psi	
Lid Quality		Heavy mild steel sheet lined with Stainless steel		
Lid Tightening		Radial locking system worked by handle		
Gasket		Made of Neoprene Rubber		
Sterilizing pressure		1.2 kgf / cm (15 psi) at 121°C		
Pressure Gauge		0-2.1 kgf / cm <sup>2</sup> (30 psi)		
Operating pressure		From 15 to 20psi (Adjustable)		
Inner Pressure Tank		Stainless Steel (SS-304)		
Basket		Made of Stainless Steel		
Water Level Indicator		Fitted on the outer chamber		
Boiler – Hydraulically Tested		Upto $\pm$ 40 psi		
Accuracy		$\pm$ 3 psi		
Safety Device		Spring Loaded Type		
Water Draining System		Hand Operated Valve		
Heating		BYISI Marked Immersion Heaters		
Steam & Vacuum Release		By Valve		
Power Supply		440 volts, 3 phase A.C. Supply		



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