

# LABORATORY EQUIPMENTS

**SAN - 102**

## AUTOCLAVE (VERTICAL)

Sturdy construction, Double walled, Inner chamber i.e. boiler made of thick stainless steel of 304 quality, outer shell is made of thick mild steel duly painted. Lid is made of thick mild steel duly Stainless steel lined and is tightened by Radial locking system. Lid is mounted on a central screw and is provided with best quality joint less neoprene gasket to avoid any risk and trouble free operation. These autoclaves are fitted with paddle lifting device to open/close the lid. Fitted with glass indicator to indicate the water level inside the boiler. These autoclaves are fitted with pressure gauge, steam release cock, safety valves, spring loaded safety valves etc. These autoclaves can be set at any pressure in between 5 to 22 Ps.i. Provided with drain valve. These autoclaves are hydraulically tested upto 40 Ps.i. Provided with ISI mark heating elements which are easily replaceable and heats the water to desired temperature and pressure. Pressure is indicated by pressure gauge. Supplied complete with stainless steel perforated basket, cord plug to work on 220 V  $\pm$  9% 50 Hz, single phase.

**Automatic Pressure Control Switch is provided for controlling the pressure automatically on preset pressure value**



**SAN - 103**

## **SAN - 103 SAME AS ABOVE BUT OUTER CHAMBER AND LID MADE OF STAINLESS STEEL**

Size (Dia x Depth)	Electric Load	Capacity
250 mm x 450 mm	(1.5 KW)	22ltr.
300 mm x 500 mm	(2 KW)	40ltr.
350 mm x 550 mm	(3 KW)	50ltr.
400 mm x 600 mm	(4 KW)	78ltr.
450 mm x 600 mm	(4 KW)	98ltr.
550 mm x 750 mm	(5 KW)	152ltr.

### OPTIONAL ACCESSORIES

1. Digital Temperature indicator
2. Timer 0-60 min.
3. Automatic low water level cut off device
4. Neoprene Gasket
5. Spare Heating Elements      **1.5 KW      2.0 KW      3.0 KW**



**SAN - 103(A)**

## **SAN - 103(A) MICROPROCESSOR BASED AUTOCLAVE**

Same as SAN-103, but with programmable features with PID, 16X2 character LCD display, 4 program keys, one start/stop key, Pt-100 3 wire sensor, Automatic soak, purge, Exhaust setting, with high alarm set, with automatic low water cutoff.



An ISO 9001:2015 CERTIFIED CO.



# SANDEEP INSTRUMENTS & CHEMICALS



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# LABORATORY EQUIPMENTS

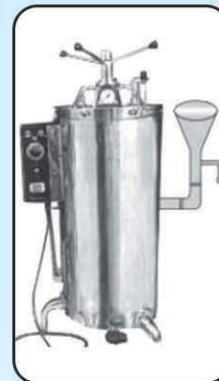
## SAN - 104 AUTOCLAVE VERTICAL HIGH PRESSURE (TRIPLE WALLED)

Triple walled with inner chamber outer wall and jacket made of Stainless Steel fitted with Stainless Steel lid and radial type locking device. The space Between steam jacket and outer wall is filled with glasswool. Automatic Pressure Control Switch is provided for controlling the pressure automatically on preset pressure value.

Size Dia x Depth	Electric Load	Capacity
350 mm x 550 mm	(4 KW)	50ltr.
400 mm x 600 mm	(5 KW)	78ltr.
450 mm x 600 mm	(6 KW)	98ltr.

### OPTIONAL ACCESSORIES

MICRO PROCESSOR programmable controller features with PID , 16X2 character LCD display, 4 program keys, one start/stop key, Pt-100 3wire sensor, Automatic soak, purge, Exhaust setting, with high alarm set, with automatic low water cutoff.



SAN - 104

## SAN - 110 FERMENTOR

Sturdy construction, Inner chamber made of 16 gauge stainless steel, outer shell and steam jacket is also made from thick Stainless Steel. The boiler and outer shell is provided with air insulation. Lid is made of Stainless Steel and is tightened by screws and is provided with best quality joint less neoprene gasket to avoid any risk and trouble free operation, with port for temperature pH indication. Provided with stirrer along with heavy duty Crompton motor. Fitted with water level indicator to indicate the water level inside the boiler. With pressure gauge, steam release cock, safety valves, spring loaded safety valves etc. Pressure in between 5 to 22 Ps.i. Provided with drain valve to emptying the chamber. Provided with ISI mark heating elements, which are easily replaceable and heats the water to desired temperature and pressure. Pressure is indicated by pressure gauge, line air filter. Outer two jackets are provided with copper coil for water re-circulation with auto pressure cutoff device. With air compressor for aeration in fermentor.

### Capacity

- 100 liters.
- 150 liters.
- 200 liters.

**OPTIONAL : Water chiller for fermentor**



SAN - 110



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# LABORATORY EQUIPMENTS

**SAN - 105**

## **AUTOCLAVE HORIZONTAL [ CYLINDRICAL ]**

Double Walled Chamber inner made of thick Stainless Steel, outer made of Heavy Duty Mild Steel duly enamel painted. Whole unit is mounted on Mild Steel Tubular stand duly enamel painted. Door is made of Heavy Mild Steel duly S.S. Lined with Radial locking system having Horizontal Mild Steel bars duly chromed tightened on a central screw. Steam Generator (Boiler) is placed below the main unit, is made of thick Stainless Steel. Boiler is provided with easily replaceable heating elements and is fixed at the base of M.S. Frame. Provided with Steam release cock, Safety Valves etc. Boiler is provided with water level indicator. Workable pressure 20 P.S. I.  $\pm 3$  P.S.I. and hydraulically tested upto 40 P.S.I. Suitable to work on 440 V. 3 Phase OR 220 V Single Phase as per requirement. These Autoclaves are provided with automatic pressure switch / Piezostat for controlling pressure at preset value.

**SAN - 106 - DO- SAME AS ABOVE BUT OUTER CHAMBER AND LID MADE OF S. STEEL IN FOLLOWING SIZES**

### **Size (Dia x Depth)**

300 mm x 500 mm	350 mm x 550 mm
400 mm x 600 mm	450 mm x 600 mm
550 mm x 750 mm	400 mm x 1100 mm
500 mm x 1200 mm	

### **OPTIONAL ACCESSORIES**

1. Timer 0 - 60 min.
2. Digital Temperature indicator



**SAN - 106**

## **SAN - 107 STEAM STERILIZER HORIZONTAL HIGH PRESSURE CYLINDRICAL**

Triple walled, with rugged and leak proof construction. Inner chamber is made of thick plate of Stainless steel 304 quality. Outer chamber is also made of thick Stainless Steel The steam jacket is lined on the outer side and made of 304 quality stainless steel with asbestos sheet or glass wool which prevents heat losses due to radiation and is covered by strong rolled steel sheet duly painted.

Boiler is made from thick stainless steel sheet suitable located under the sterilizer. High grade flanged type heating elements are placed in the front side for easy replacement etc. Fitted with water gauge made of glass for water level, safety valve, water inlet and drain valves. Provided with self locking safety door which cannot be opened when the chamber is under pressure. The clutch mechanism automatically disengages the threads of the radial locking system for precluding any eventuality of accident when the chamber is under pressure. A heat resistant neoprene rubber gasket is provided for totally safety of the Instrument. Provided with electrically operated PIEZOSTAT



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# LABORATORY EQUIPMENTS

which economics the power consumption and limits the use of release valve which would frequently blow steam into the room. It cuts off the power supply to heaters when the set pressure is achieved and re-energises the heater when pressure falls down.

Two separate valves are provided for evacuating air and steam from inner chamber and jacket .A steam trap is fitted in the chamber discharge line to eliminate the condensate automatically. Panel consist of pressure control switch, main on/off switch, Indicators, relays etc. The sterilizer is provided with triple safety. First with pressure control switch , Two nos. spring loaded safety valves, and a dead weight safety valve. A PLUG SCREEN prevents the discharge line from choking. And it can easily be removed for cleaning. A power full ejector circulates the air throughout the chamber.



**SAN - 107**

**- DO- SAME AS ABOVE BUT OUTER CHAMBER AND LID MADE OF STAINLESS STEEL. AVAILABLE IN FOLLOWING SIZES**

**OPERATING TEMPERATURE AND PRESSURE : 121°C., 1.2 to 2 kg./sq. cm.**

**LOAD : 6.0 to 12.0 KW**

Size (Dia x Depth)	Electric Load	Capacity
400 mm x 600 mm	(6.0 KW)	88 ltrs.
400 mm x 1100 mm	(9.0 KW)	162 ltrs.
500 mm x 900 mm	(9.0 KW)	165 ltrs.
500 mm x 1200 mm	(9.0 KW)	221 ltrs.
600 mm x 1200 mm	(12.0 KW)	325 ltrs.

**SAN - 108**

## STEAM STERILIZER RECTANGULAR HIGH PRESSURE

**- do- SAME AS ABOVE Steam sterilizer horizontal high pressure cylindrical**

**OPERATING TEMPERATURE AND PRESSURE**

**: 121°C., 1.2 to 2 kg./sq. cm.**

**LOAD : 6.0 to 18.0 KW**

(WxHxD) (mm)	Cap. (Ltrs.)
450 x 450 x 900	180
450 x 600 x 900	240
600 x 600 x 900	320
600 x 600 x 1200	430



**SAN - 108**



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# LABORATORY EQUIPMENTS

**SAN - 109**

## GLASS BEAD STERILIZER

For use in Biotechnology/Tissue Culture research and production. These are compact stainless Steel units, and can be placed on Laminar Air Flow Benches. Glass Bead Sterilizers are a quick, Easy and Accurate alternative to traditional methods of sterilization. It destruct all micro organizam within seconds. The unit is ready within 30 minutes after switching on and ensure total sterilization. These are incorporated with an imported thermostat, which maintains the set temperature with an accuracy of  $\pm 10c$  of the preset temperature range.

Cabinet Size	:150 x 155 x 225 mm ( L x W x H)
Crucible (Brass) size	: 2" dia x 5½" Depth
Preset Temp. Range	: 245°C – 265°C
Initial Stabilization Time	:30 Minutes:4.13 Kgs.
Weight (inclu. of Glass Beeds)	:50 Units (for 25 working days)
Power consumption	:250W Single Phase
Wattage	:220V 50 Hz. Or 110V 50 Hz.
Input	



**SAN - 109**



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