

YORLAB[®] HOT AIR STERILIZER **Model No.: YSL / YSI-431D**

-Mettmert Type as per : IS 3119

Specifications:

- Due to progressive policy of continuously developing high quality products, YORLAB Hot Air Sterilizers have unique design.
- All the instruments are subjected to tough quality control before despatch. These are designed principally to destroy Bacteria, Viruses, Fungus and Sterilize Surgical & Dental Instruments. Glass wares etc. by application of dry heat at temp. ranging between 140°C to 200°C as per IS 3119.

Construction :

- YORLAB Ovens are sturdy, with double walled construction. Inner chamber is made of Highly Polished Stainless Steel.
- Outer chamber is made of Mild Steel Sheet duly pre-treated in seven tanks process for surface treatment & are finished with durable Powder Coated Paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses.
- Inner chamber is fabricated with ribs to adjust shelves to any convenient height. Supplied with 2 or 3 removable shelves. Shelves are made of polished SS Sheet. Insulated door is fitted with heavy hinges with a special design spring - loaded door closing device. Door gasket made of synthetic rubber compound instead of Asbestos.

Heating Element :

- Heating elements are made of high grade imported Nichrome wire which are insulated inside the porcelain beads and are generally placed suitably in Air Path for uniform temperature all over the space.

Temperature Control :

- Temperature is controlled by PID microprocessor control system provided with air Circulating fan for providing homogenous temperature through out the chamber with wide temperature 50°C to 250°C ovens for various applications.

Ventilation :

- Air ventilator ports provided on both sides at top to ventilate, gases and fumes if any.

Control Panel provided with:

- Programable Microprocessor Controller "Fuzzy Logic Control with Accuracy of $\pm 1^\circ\text{C}$.
- P.I.D. Control with Jumbo LCD Display.
- 0-9999minutes Data Retentive Delay and Process Timer.



- This features ensures that the material inside is objected to the set temperature for the set time only, irrespective of any power cuts or voltage fluctuations.
- Adjustable Overshoot Alarm & Heater cut off.
- A very low power consumption as a speciality of Fuzzy Logic control.
- In-built Heaters prolongs heater life.
- Feather touch button.
- Built in RS-232 Port for obtaing process data.
- Power Requirement : Supplied with cord and plug. Suitable to operate on 220 V single phase, 50 Hz, AC supply.

Size of inner chamber:

W	x H	x D	Cap.	No. of Shelves	Load
300	x 300	x 300 mm	27 liter	2	1.5 kw
355	x 355	x 355 mm	45 liter	2	1.5 kw
455	x 455	x 455 mm	92 liter	2	2.0 kw
455	x 605	x 455 mm	125 liter	3	2.2 kw
605	x 605	x 605 mm	220 liter	3	2.5 kw
605	x 910	x 455 mm	250 liter	3	2.5 kw
605	x 910	x 605 mm	330 liter	3	3.0 kw