



# Horizontal Autoclave (Cylindrical) ATI 105



**ACMAS Technologies Inc.**

CE An ISO 9001:2000 Company

Sales Office: 312-313, Vardhman Capital Mall, L.S.C. 10, GulabiBagh, Delhi-110052, INDIA  
Tel: +91-11-23654603 (M) +91-9313971681, 9311039044, 9555351619 Fax: +91-11-23654603  
Email: [acmastechnologies@gmail.com](mailto:acmastechnologies@gmail.com) | [obromax.delhi@gmail.com](mailto:obromax.delhi@gmail.com)  
[www.acmastechnologies.com](http://www.acmastechnologies.com) | [www.acmas.in](http://www.acmas.in)

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## Introduction :

OBROMAX is a name of quality and quick service, an asset to Hospitals, Pharmaceutical, Tissue culture, Bio-fertilizer Laboratories and research institutes with modest sterilizing needs, where contaminated objects require sterilization. Since last 25 years OBROMAX have made its primary objectives to help fight the spread of infections, caused by pathogenic micro-organisms. We represent most innovative and advanced technologies in our products supported by our

## Working Chamber:

Diameter (mm)	X	Depth (mm)
400	x	600
500	x	900
550	x	750
400	x	1100
500	x	1200

most efficient customer support network.

## Construction :

The unit has outer chamber, inner Chamber, Boiler, Lid and Jacket - all made of 304 grade stainless Steel. For controlling sterilization cycle, a three way valve or a multiport valve - made of S.S. is provided. It is supplied complete with vacuum breaker, water level indicator, steam trap and automatic pressure control switch. The whole unit is mounted on a robust tubular stand. It is available in the following standard sizes. Operatable on 3 Phase, 440 Volts A.C. Supply.

## Mode of Heating :

Electrically heated by special flange type/immersion type heaters bearing ISI mark, to work on 440 volts three phase 50 cycles.

## Working Pressure:

The pressure inside the chamber is variable from 5 psi. to 20 psi. But the normal recommended pressure for sterilization process is 1.2 kgf/cm sq.g ( 15 psi - 17 psi )

## Working Temperature : 121°C

## Hydrotest Pressure : 2.5 kgf/cm sq.g ( 35 psi )

## Working Chamber:

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## Standard Controls

Multiple Operating Valve	: To carry out all functions of sterilization cycle at one point i.e. steam to jacket, steam to chamber, fast/ slow exhaust & vacuum/ drying.
Door	: Single door shall be fitted with radical shooting arm, provided with automatic pressure locking device so that the door can not be opened till chamber pressure is fully exhausted.
Quick Vacuum Drying Apparatus	: This Allows the filtered and sterilized air to break the chamber vacuum & helps in quick-drying.
Accidental Vacuum Breaker	: A safety device so jacket against accidental vacuum in it and to remove residual air from it.
Safety Valve	: A safety device against excess pressure in jacket & steam generator.
Dial Type Thermometer	: Indicates sterilization temperature.
Plug Screen	: A device to prevent chamber, discharge line from lint / sediment.
Chamber Condensate Line	: Incorporated with spirax thermosatic steam trap and check valve for perfect condensation from chamber to achieve optimum temperature.
Pressure & Compound Gauge	: Indicates jacket and chamber pressure / vacuum resp.
Steam Generator ( Boiler )	: <b>Shall be attached to underneath the jacket. It shall be fitted with -</b> 1 ISI marked water immersion type industrial heating elements. 2 A magnetic automatic water level float switch to protect heater from low water level. 3 Water inlet & outlet valves. 4 Water level indicating gauge glass with SS guard and with automatic water closing device in case of breakage of glass tube. 5 Automatic pressurestat switch to control the boiler/jacket pressure.
Electrical Control Box	: Equipped with air break contractor of ' CUT. HAMM' make, toggle switch and two nos. indicating neon lamps.

## Optional Accessories :

1 Automatic Pressure Control Switch (Pressure control switch - INDFOSS PIEZOSTAT) - This semi-automatic device controls the pressure inside the chamber mechanically and cuts-off the current from the heating elements, when the desired/ set pressure value level is attained inside the chamber and restarts the mechanism once the pressure inside the chamber falls from the desired level.

2 Automatic Water Cut-off Device - This device is a safety device which protects the heaters from running dry. This device

ensures that the machine is automatically switched off in case the desired water level falls below the prescribed level.

3 Temperature Indicator (Dial Type) - This device indicates the temperature inside the chamber.

4 Mechanical Timer with Alarm System - This is a semi-automatic device which is initiated once the pressure level inside the chamber reaches the desired value, it regulates the sterilization time of the media to be sterilized and when the desired time is passed, it activates the buzzer, which indicates that the sterilization cycle is complete and media can be extracted.