

## AUTOMATIC H2O2 PLASMA STERILIZER

### AUTOMATIC MODEL

#### TECHNICAL SPECIFICATION:

- Chamber volume** : as per requirement
- Material of Construction : SS – 316 with Aluminum propionate site
- Sterilization Cycle** : Warm & Cold cycles are possible.
- Aeration : In-built Aeration & diffusion facility provided.

#### EQUIPMENT DESCRIPTION:

1. The system has been designed to operate on single use disposable type, H2O2 80% - 90% gas.
2. The chamber and all contact parts shall be made from S.S 316. The chamber has been provided with a double door, easy locking arrangement and silicon gasket for leak proof operation.
3. Electronically controlled heating system to ensure uniform heating of the chamber at 55 degree centigrade.
4. The chamber is provided with an adequate capacity vacuum pump enclosed **sturdy** cabinet duly powder coated for durability.
5. We provide four of control switches with built in indicator light to regulate evacuation, feeding of gas, fresh air inlet through filter and aeration facility.

**AUTOMATIC H2O2 PLASMA STERILIZER WITH PLC, MICROPROCESSOR PANEL**

**Technical Specifications**

	<b>PBT/MI - 100L</b>	<b>PBT/MI - 50L</b>	<b>PBT/MI- 35L</b>
<b>Cycle Time</b>	Long Cycle: 55 minutes Standard Cycle: 31 minutes	Long Cycle: 53 minutes Standard Cycle: 30 minutes	Long Cycle: 33 minutes Standard Cycle: 17 minutes
<b>Sterilization Chamber</b>	Rectangle	Rectangle	Rectangle
Shape:Chamber Dimensions (WxHxD)	450mm x 400mm x 690mm	490mm x 220mm x 670mm	250mm x 220mm x 660mm
Chamber Volume:	124 Litres	72 Litres	36 Litres
Usable Volume:	100 Litres	50 Litres	33 Litres
<b>Dimensions, Weight</b>			
Dimensions (WxHxD):	800mm x 1730mm x 1002mm	800mm x 1490mm x 940mm	700mm x 960mm x 680mm
Net Weight:	490kg	400kg	135kg
<b>Installation Dimensions</b>			
Minimum distance form wall:	100mm	100mm	100mm
Minimum service access to front:	1000mm	1000mm	1000mm
Venting requirements:	Not required	Not required	Not required
<b>Controller</b>	Fully automated microprocessor controller.		
<b>Display &amp; Printer</b>	6.5inch, TFT true colour, touch screen. Built in heat sensitive Micro printer.		3.5inch, TFT true colour, touch screen. Built in heat sensitive Micro printer.
<b>Flash Memory Card</b>	32MB memory card record and data storage for each cycle.		
<b>Hydrogen peroxide cassette</b>	Hydrogen peroxide concentration: 58% Shelf Life: 1 year One cassette has the capacity for 12 standard or 6 long cycles		
<b>Sterilization Level</b>	Sterilization efficacy: SAL 10 <sup>6</sup>		
<b>Door</b>	Automatic vertical sliding door controlled by hand switch, foot switch and the touch screen.		Hinged door
<b>Connections</b>	Electricity only. 415v, 50 Hz, 16A, 3phase		Electricity only 240v, 50 Hz,

<b>Operational Environment</b>	Ambient temperature 5 – 40 °C Relative humidity 30 – 95%RH
<b>Accessories and Consumables</b>	All the necessary consumables for sterilization – cassettes, containers, packing paper, packing reels, chemical and biological indicators are available through Atherton.
<b>Standards</b>	ISO9001:2008

**DISPLAY:**

1. HMI For all machine status
2. Pressure sensor for pressure value

**FEATURES AND BENEFITS OF THE AUTO -PLASMA STERILIZER**

The Automatic H2O2 plasma sterilizer is compact stand-alone sterilizer chamber. The following points make our sterilizer more advantages.

**Machine:**

1. One Touch operation makes operator expertise & dependence unessential
2. The lights on the front panel of the sterilizer show cycle status and various operations.
3. Chamber size can be made as per specific requirement of customer.
4. The electrically operated vacuum pump does not consume precious and expensive compressed air.
5. Hot and Cold sterilization cycles with possibility to set the temperature independently.
6. Wide choice of sizes with particular emphasis of use & application of customer.



# Hydrogen Peroxide Low Temperature Plasma Sterilizer

The LK series hydrogen peroxide low temperature plasma sterilizer is designed for rapid yet gentle sterilization of items sensitive to high temperature and moisture. It has a highly efficient cycle time of 30 minute at 55°C.

One of the most important requirements for plasma sterilizers is the ability to successfully process lumens. The unit will sterilize a 1mm stainless steel lumen up to 500mm and a

1mm polyethylene/Teflon steel lumen up to 2000mm within 30 minutes.

Installation requires nothing more than a dedicated power outlet. No costly plumbing, no special ventilation or monitors are required.

Low-temperature hydrogen peroxide gas plasma is non toxic and non carcinogenic to staff and patients. The by-products of the cycle are water and oxygen, eliminating the need for aeration or ventilation.

## Features

- Rectangular SS 316 Chamber with aluminum prop orate site designed for trouble-free diffusion
- LCD Touch screen controls with one press start
- 15 minutes pre-heating (only needed for first cycle of the day)
- 28-33 minutes cycle
- Cassette sealing system and identification system to guarantee injection accuracy without any waste
- 32M memory card for cycle record retention
- Simple maintenance
- Fixable casters for easy moving
- Two sliding shelves
- **The following on the 50L and 100L only**
- Built in biological incubator
- Foot switch door operation



PBT/MI-36L

# Cassette

One of the important factors for low temperature plasma sterilization is to accurately control the injection of hydrogen peroxide. Inadequate hydrogen peroxide injection results in failed sterilization and over injection leaves residue. The PBT series uses a cassette to deliver an accurate volume. This cassette system has the advantage of easy storage, easy operation and easy replacement.



Hydrogen Peroxide



Chamber



LCD Touch Screen

## PBT/MI-100L



Biological



Built in

## PBT/MI-50L





