

Atherton

DRAGON SERIES



Hydrogen Peroxide Low Temperature Plasma Sterilizer



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 aluminium chamber 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



LK/MJG-Bench Top

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 LK 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 Cassette



Chamber



LCD Touch Screen



LK/MJG-100L



LK/MJG-50L

Built in Biological incubator

Data recording Printer



Technical Specifications			
	LK/MJG – 100L	LK/MJG – 50L	LK/MJG – 35L
Cycle Time	Long Cycle: 55 minutes Standard Cycle: 31 minutes	Long Cycle: 53 minutes Standard Cycle: 30 minutes	Long Cycle: 33 minutes Standard Cycle: 17 minutes
Sterilization Chamber Shape: Chamber Dimensions (WxHxD): Chamber Volume: Usable Volume:	Rectangle 450mm x 400mm x 690mm 124 Litres 100 Litres	Rectangle 490mm x 220mm x 670mm 72 Litres 50 Litres	Rectangle 250mm x 220mm x 660mm 36 Litres 33 Litres
Dimensions, Weight Dimensions (WxHxD): Net Weight: Gross Weight:	800mm x 1730mm x 1002mm 490kg 590kg	800mm x 1490mm x 940mm 400kg 480kg	700mm x 960mm x 680mm 135kg 165kg
Installation Dimensions Minimum distance form wall: Minimum service access to front: Venting requirements:	100mm 1000mm Not required	100mm 1000mm Not required	100mm 1000mm Not required
Controller	Fully automated microprocessor controller.		
Display & Printer	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.
Flash Memory Card	32MB memory card record and data storage for each cycle.		
Hydrogen peroxide cassette	Hydrogen peroxide concentration: 58% Shelf Life: 1 year One cassette has the capacity for 12 standard or 6 long cycles The expiry of the cassette is shown on the touch screen		
Sterilization Level	Sterilization efficacy: SAL 10 ⁶		
Door	Automatic vertical sliding door controlled by hand switch, foot switch and the touch screen.		Hinged door
Connections	Electricity only. 415v, 50 Hz, 16A, 3phase		Electricity only 240v, 50 Hz, 10A, Single phase.
Operational Environment	Ambient temperature 5 – 40 °C Relative humidity 30 – 95%RH		
Accessories and Consumables	All the necessary consumables for sterilization – cassettes, containers, packing paper, packing reels, chemical and biological indicators are available through Atherton.		
Standards	ISO9001:2000 ISO13485:2003 ISO4937:2000 MDD 93/42/EEC		

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