



## 360° Hospital Infection Control Integrated Solution

*better guarantee of your life value*

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Hydrogen Peroxide Low Temperature  
Plasma Sterilizer **LK/MJG-150**



- Single Door
- Double Door

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## LK/MJG-150 Advantages



### Enhanced Efficacy

Short Cycle 25 minutes. Only half of the similar products.  
Longer cycle time requires more backup surgical instruments.

LAOKEN high-efficiency sterilization saves extra purchase cost, reduces backup instruments and storage time, and raises utilization rate of important instruments.

1. Fast. Enhance the ability of operating room and CSSD handling emergency operating instruments.
2. Easier management of instruments.
3. Improve utilization and efficiency of operating room.
4. Improve cooperation among OR, CSSD and other clinical surgical departments.



### Safe

LAOKEN Plasma Sterilizer is in full compliance with safety standards.

By products are only water and oxygen which are completely safe for either human beings or environment.

Sterilization cycle is strictly controlled below 55° C in a dry condition, avoiding damages caused by temperature and humidity changes.

Dynamic laminar flow separate recycle technology, together with special air adsorption device make sure exhaust air is clean and safe.



### Lower Cost

LM/MJG sterilizer process instruments in a very gentle fashion comparing with other sterilization methods and similar products. It prolongs lifespan of precision instruments and save purchase cost at large.

In the mean time, purchase cost and consumable cost are much lower than similar products, which saves a lot of expense in the long run.



### One Key Operation

Intelligent sterilization control system allows one key sterilization and displays cycle progress, parameters & countdown. Convenient for work arrangement in the hospitals.

10 inch + 7 inch double TFT touch screen display bigger buttons and texts for easier operation. Synchronized display and asynchronous operation technology is applied for convenient use.





### Powerful Performance SAL10<sup>-6</sup> Sterilization

LK-MJG Plasma Sterilizer is certified by ISO9001 & ISO13485 quality assurance system and with CE certificate.

Sterilization efficacy is proved by China's Ministry of Health, CDC and China Academy of Military Sciences.

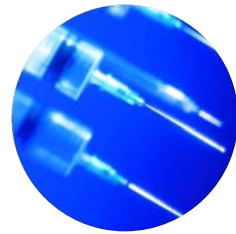


### Simple Installation

The sterilizer is ready to work once power is connected.

Installation doesn't need room analysis, drainage system, ventilation system, detoxification devices, safety management, regulating measures, personal protective devices and training.

Our experienced engineers will provide professional services for installation.



### Intelligent Monitoring Precise Injection System

Precision and sensitive sensors, combined with up-to-date fuzzy control analysis technology monitor all parameters from time to time to ensure the stability of performance.

Ultrasonic welding technology is applied to fill accurate volume of H<sub>2</sub>O<sub>2</sub> into every capsule.

Automatic vacuum injection technology effectively ensures accuracy during injection of H<sub>2</sub>O<sub>2</sub>.



### Internet of Things Concept

Based on internet of things technology, diversified monitoring and management are applied.



### Complete Service

More than 80 global after service centers are ready to help 7 x 24.

Call toll-free service line 4006365800 to get professional help now.

*After Service (China)*  
**4006-365-800**





## Configuration

### ● Double Door



● Single Door



❖❖❖ Spare Parts



**Patented Cassette**

Patented H2O2 cassette is more convenient, safe and reliable. Independently sealed capsules ensure identical injection volume.

**Save 6 Years' Data**

LK/MJG-150 Plasma Sterilizer is able to save more than 6 years' sterilization records for a hospital of 800 beds.



**Download Data to USB**

Sterilization records are able to be transferred to an editable .xls file and downloaded to USB drive conveniently.



### Traceability via WIFI

WIFI enabling data exchange with management softwares such as CSSD quality traceability system, HIS, PASS to synchronize data.



### 3G Communication

Maintenance, software upgrading and operator training are available via 3G module.



### Intelligent Alarm

Intelligent control system of the sterilizer monitors and gives alarm visually and vocally if error occurs on vacuum pump, plasma generator, etc.

Error Code	Description	Current User Name	System Info.
001	Front condenser temperature error		Error
002	Back condenser temperature error		Incubation
003	Exhaustion chamber failure		Records
004	Exhaustion injector failure		Next
005	Chamber heating error		Exit
006	Chamber heating error		
007	Front expander heating error		
008	Back expander heating error		
009	Front expander heating error		
010	Back expander heating error		
011	Front expander injection failure		
012	Back expander injection failure		
013	Plasma error		
014	Chamber temperature error		
015	Front door temperature error		
016	Back door temperature error		
017	Exhaustion failure		
018	Exhaustion failure		
019	Exhaustion failure		
020	Exhaustion failure		
021	Exhaustion failure		
022	Exhaustion failure		
023	Exhaustion failure		
024	Exhaustion failure		
025	Exhaustion failure		
026	Exhaustion failure		
027	Exhaustion failure		

### Foot-kicking Switch & Finger Switch

Foot-kicking switch and finger switch make loading and unloading easier, faster and more convenient. Operators can open or close chamber door by kicking the switches when their hands are occupied.







### Patented Build-in Incubator

Build-in biological incubator gives alarm when incubation complete. Incubation records are saved together with respected sterilization cycle records for traceability use.



### Movable Shelves

Movable shelves built in both single door and double door sterilizers for easy instruments loading and unloading.



### Safety Door

For the safety of operators, door automatically stops when objects are found in its way.



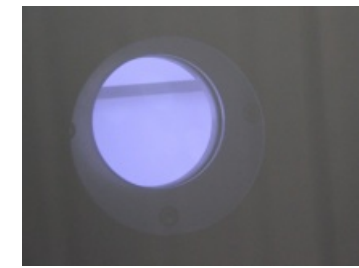
### Sterilization Package

Sterilization package information can be saved together with cycle records via barcode and RFID scanning.



### View Port

Plasma effect is visible via specially designed view port with anti-UV glass.





## Parameters

Item	LK/MJG-150	LK/MJG-150
Door Configuration	Single door	Double Door
Total Volume	187L	
Usable Volume	150L	
Power Supply	3 Phase, 380±38V , 50±1Hz	
Duty Type	Short time loading, continuous running	
Cycle Time	Short Cycle: 25mins Standard Cycle: 35mins	
Power Input	≤4200VA	
Constant Temperature Power	1800VA	
Standby Power	Approx. 160VA	
Ambient Temperature	5°C ~ 40°C	
Ambient Relative Humidity	30% ~ 95% ( non-condensing )	
Ambient Pressure	700hPa ~ 1060hPa	
Installation Method	Free standing with casters, no plumbing and exhaust	
H <sub>2</sub> O <sub>2</sub> Dosage(mL)	Short Cycle: 3ml, Standard Cycle: 6ml	
Available Cycles of Each Cassette	Short Cycle: 12, Standard Cycle: 6	
Work Temperature in Chamber	50°C±5°C	
Maximum Vacuum Degree	50Pa	
Chamber Shape	Rectangular	
Dimension	860×1040×1790	860×1100×1790
Minimum Installation Space	2000×2000×2200	
Chamber Dimension	450×520×800	
Shelves	Two Layers/Four levels	
Loading Capacity	80Kg, 20Kg/level	
Net Weight	Approx. 600Kg	Approx. 580Kg
Gross Weight	Approx. 700Kg	Approx. 680Kg
Scheduled Maintenance	6 Months	
Touch Screen	6.5 inch, TFT true color, touch screen	10inch + 6.5inch, TFT true color, double touch screen
Printer	Micro-printer	

## Application Range

**1)** Applicable to metal and non-metal instruments. Instruments are kept in a low temperature and humidity environment during sterilization cycle. It's especially applicable to heat and humidity sensitive instruments, and repeatedly used surgical instruments such as flexible and rigid endoscopes, and other precision and lumen instruments.

**2)** Applicable to instruments with limited diffusion space such as tweezers and forceps with hinges.

**3)** Dimensions and material for applicable lumen (Standard Cycle)

- A.** Open ends stainless steel lumen  
Inner diameter = 0.8mm  
Length = 300mm
- B.** Open ends PTFE lumen  
Inner diameter = 1mm  
Length = 1000mm
- C.** Cables connected to patients
- D.** Glass lens and optic lens
- E.** Catheters
- F.** Rigid endoscopes
- G.** Recommended flexible endoscopes
- H.** Surgical instruments, diagnose instruments
- I.** Transplants that can stand H2O2



## Consumables

All consumables are of the best material and competitive price.

Certain consumables are available for customization.



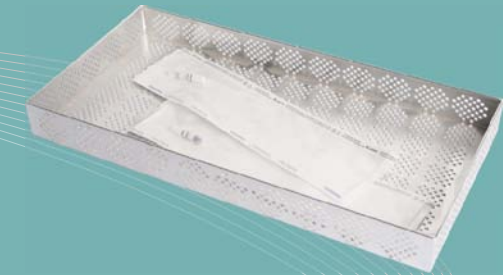
Non-woven Fabric



Sterilization Packages Meet specifications for all instruments



Instrument Tray



Instrument Tray

## Cassette

- Control accurate injection volume is a key technology of plasma sterilizers. Sterilization cycle will not be successful if inject inadequate hydrogen peroxide. Too much hydrogen peroxide injection will cause hazardous residue.
- LK/MJG Plasma Sterilizer adopt cassette with independent capsules. Accurately 3ml hydrogen peroxide of 58% is filled in every capsule. One capsule for one injection makes sure every injection is identical.
- Moreover, cassette is easy for storage and operation, safe for operators when replacing cassette.



Cassette

## Biological Indicator

- Operation in sterile environment is not required.
- Colony number are stable in 24 months
- Chemical indication sticker covering the biological indicator for easy differentiation of used ones.
- Chemical indication sticker is easy to be tore off for long term storage.
- 48 hours incubation is more reliable.



Biological Indicator



Chemical Indication Sticker (Independent stickers recording item names, operator names, etc.)



Chemical Indicator