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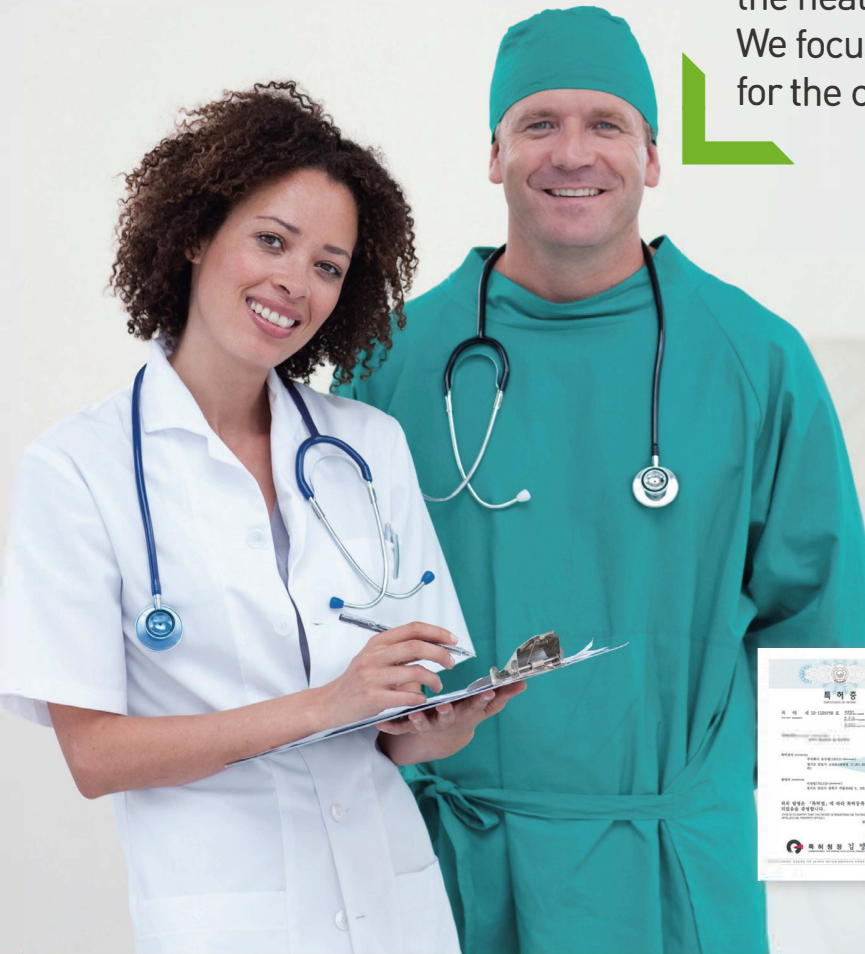
www.lowtem.com

Low Temperature Plasma Sterilizer



LowTem
Infection Prevention

LowTem is a global enterprise specialized in the healthcare products. We focus on creating the safest environments for the customers.



Vision

LowTem sells Customer Satisfaction.

- We are not only selling the items, but your satisfaction.
- We are willing to listen to your advices to improve our technology.

LowTem prepares Present dreaming Future, as today is the beginning of our bright future.

- LowTem is a professional for Low Temperature Plasma Sterilizers, but considers more about improving our quality in order to protect our customers
- LowTem prepares an innovative future technology to ensure the quality of sterilization and infection prevention for our customers.

Low Temperature Plasma Sterilizer is



Safe

Low Temperature Plasma Sterilizer is user-friendly, as the main sterilizing agent is very safe, remaining nontoxic residue (Water and Oxygen).



Quick Cycle Time

1. Fast running cycle increases turnover rate the delicate and state-of-the-art medical equipments in the hospital.
2. This rapid turnover rate lightens the hospitals' financial burden, as they do not need to equip a number of redundant medical devices.



Green Method and Products

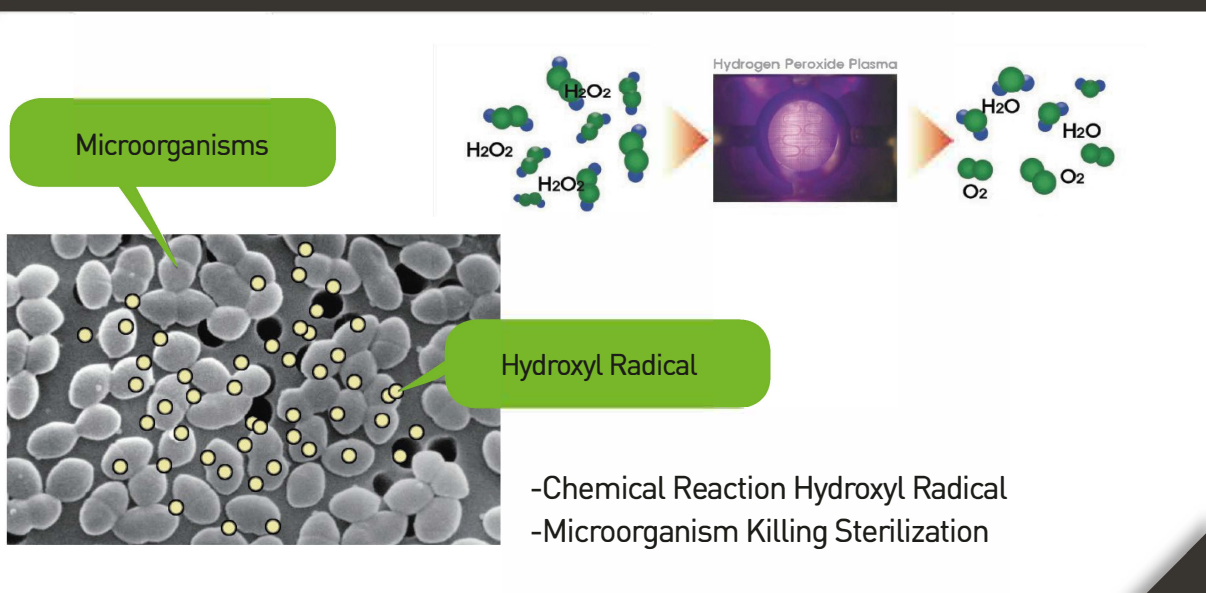
The by-products after sterilization, water and oxygen, contribute Green Environment as well as guarantee user-safety, substituting for other sterilizations which use harmful materials



Low Temperature Sterilization

The temperature keeps lower than 60°C and cycle time is under 1 hour, which prevents heat and moisture damages to sophisticated medical instruments, and prolongs the life expectancies of them.

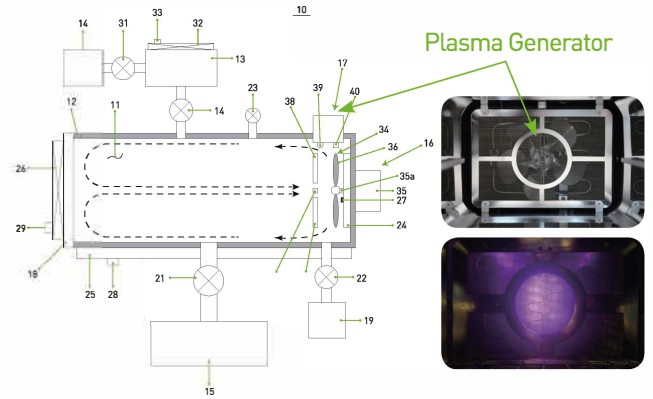
Basic Principle of Low Temperature Plasma Sterilizer



Main Features of LOWTEM Series

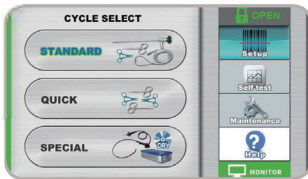
1) Rapid Warmup & Dry System

The world's first patented "Rapid Warmup and Dry System" allows to overcome the humidity-related problem, removing residual moisture and chamber's cold point.



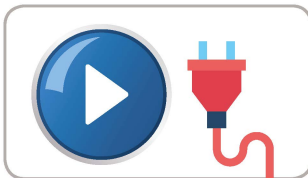
2) Convenient and Safe Sterilizing Agent

Multi-cycle "Tank type" sterilant is safe for users to store, to deliver, and to use. The automatic RFID system for using sterilant tank is convenient and reliable for users.



3) 7" full touch LCD, Easy Monitoring the Cycle Information

User can monitor the actual temperature and pressure from the graph on the 7" full touch LCD monitor friendly touching icons.



4) Plug and Play

LOWTEM Series' warming up time is very rapid (Maximum 15 min) after main power is on, so that standby power consumption is zero during off-duty or overnight.

LOWTEM Crystal/Smart Series

Crystal 30



Crystal 40R



Crystal 50



Crystal 100



Main Features of LOWTEM Series



5) USB History Memory and Monitoring System

LOWTEM Series' sterilization history can be downloaded to your USB memory stick, and maintained at your convenience. Furthermore, it can be remote-controlled by its own out-of-state network system.



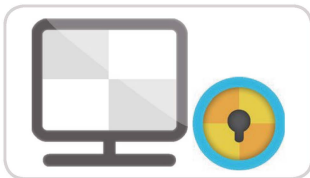
6) Automatic PM Alarm System

LOWTEM Series provide alarms to prevent from irregular maintenance. Automatic PM Alarm System is very useful for users and engineers to be noticed.



7) Built in Thermal Printer, Printout with Actual Cycle Information

Built-in thermal printer uses 60mm (Ø) Roll paper. Users do not need to replace it often. The printout from this printer provides temperature, pressure with the cycle graph on the paper.



8) Login Function

LOWTEM Series provide User ID and PW, so that hospital can manage users who access the sterilizer.

Smart 100



Crystal 120M/D



Smart 150/D



Sterilizing Agent



Bottle type with RFID Tag

- Crystal 30/40R/50 : 40 cycles/Bottle
- Crystal/Smart 100 : 25 cycles/Bottle
- Crystal 120M/120D : 20 cycles/Bottle
- Smart 150/150D : 15 cycles/ Bottle

Incubator



Incubation(24hrs)



Rapid Incubator(30mins)

Indicator



Chemical Indicator Tape



Label Applicator



Chemical Indicator Strip



Biological Indicator (24hrs)



Super Rapid Biological Indicator (30mins)

Auto Sealing Machine



LOWTEM Edition HM800DC
KC Mark Approved

Pouch



Material : Polyester Film,
Tyvek® Sheet
Size : 75, 100, 150, 200, 250,
300, 400 mm

Cutting Device



Print Paper



PCD



- Soft Lumen (Both side open)**
· Ø1 x 12,000mm
- Soft Lumen (One side open)**
· Ø1 x 2,000mm
· Ø2 x 1,500mm
- Hard Lumen (Both side open)**
· Ø1 x 2,000mm
- Hard Lumen (One side open)**
· Ø2 x 1,500mm

Containers

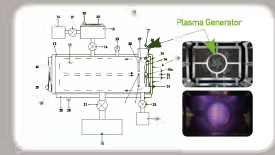


Non Woven Sheet





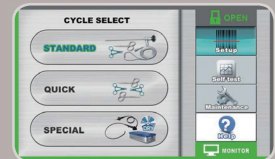
1) Rapid Warmup & Dry System



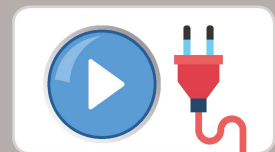
2) Convenient and Safe Sterilizing Agent



3) 7" full touch LCD, Easy Monitoring the Cycle Information



4) Plug and Play



5) Table-top Model



6) Oilless Pump



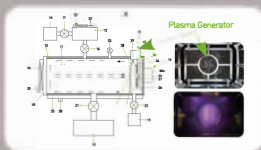
7) Useful Cart



Sterilizing Agent		Hydrogen Peroxide 40 Cycles/Bottle
Total Cycle Time	Quick	25+5min
	Standard	35+5min
	Special	45+5min
Cycle Temperature		50± 5°C
SAL(Sterility Assurance Level)		10 ⁻⁶
By-products		Oxygen and vapor water only
Lumenclaims		Rigid lumen & Flexible lumen, Endoscopes
Chamber	Type Material	Rectangular Stainless Steel (SUS)
Dimensions	Overall Chamber	530mm(W) X 500(H) X 735(D) 260mm(W) X 220(H) X 590(D)
	Volume	Total : 33 Liters
Weight		90 Kg
Control		Microprocessor & Windows CE embedded
Cycle Information		Screen, USB, 100/10Mbps Ethernet(Optional)
PM Cycle		Automatic Alarm & Setup
Electrical		110V / 220V, 50 / 60Hz, 1Phase, 1500W
Installation Requirements		Front : 100cm Rear, Left side, Right side : 10cm Placement : Built-in wheels provide mobility
Room Conditions		5~40°C, 0~95%RH(Non-Condensing)
Others		Operator ID Login, Self-Diagnosis, Multi-Language, RFID Coding System
Cart(Optional)		530mm(W) X 760(H) X 700(L) / 30Kg

LOWTEM Crystal 40R

1) Rapid Warmup & Dry System



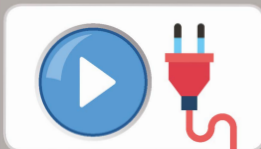
2) Convenient and Safe Sterilizing Agent



3) 7" full touch LCD, Easy Monitoring the Cycle Information



4) Plug and Play



5) All-in-one Basket Tray



6) Automatic PM Alarm System



Sterilizing Agent		Hydrogen Peroxide 40 Cycles/Bottle
Total Cycle Time	Quick	25+5min
	Standard	35+5min
	Special	45+5min
Cycle Temperature		50 ± 5°C
SAL(Sterility Assurance Level)		10 ⁻⁶
By-products		Oxygen and vapor water only
Lumenclaims		Rigid lumen & Flexible lumen, Endoscopes
Chamber	Type Material	Rectangular Stainless Steel (SUS)
Dimensions	Overall Chamber	530mm(W) X 740(H) X 790(D) 300mm(W) X 220(H) X 640(D)
Volume		Total : 40 Liters
Weight		120Kg
Control		Microprocessor & Windows CE embedded
Cycle Information		Screen, Printer, USB, 100/10Mbps Ethernet(Optional)
PM Cycle		Automatic Alarm & Setup
Electrical		110V / 220V, 50 / 60Hz, 1Phase, 1600W
Installation Requirements		Front : 100cm Rear, Left side, Right side : 10cm Placement : Built-in wheels provide mobility
Room Conditions		5~40°C, 0~95%RH(Non-Condensing)
Printer		Built-in Thermal Printer(60Ø Roll Paper) Cycle Parameters(Temp, Pressure, Time, Daily&Total Cycle, etc) Alarm & Error Display
Others		Emergency Stop(Front), Operator ID Login, Self-Diagnosis, Multi-Language, RFID Coding System
Cart(Optional)		530mm(W) X 720(H) X 710(L) / 50kg



Sterilizing Agent		Hydrogen Peroxide 40 Cycles/Bottle
Total Cycle Time	Quick	25+5min
	Standard	35+5min
	Special	45+5min
Cycle Temperature		50± 5°C
SAL(Sterility Assurance Level)		10 ⁻⁶
By-products		Oxygen and vapor water only
Lumenclaims		Rigid lumen & Flexible lumen, Endoscopes
Chamber	Type	Rectangular
	Material	Stainless Steel (SUS)
Dimensions	Overall	530mm(W) X 780(H) X 855(D)
	Chamber	320mm(W) X 230(H) X 700(D)
Volume		Total : 50 Liters
Weight		140Kg
Control		Microprocessor & Windows CE embedded
Cycle Information		Screen, Printer, USB, 100/10Mbps Ethernet(Optional)
PM Cycle		Automatic Alarm & Setup
Electrical		110V / 220V, 50 / 60Hz, 1Phase, 1800W
Installation Requirements		Front : 100cm Rear, Left side, Right side : 10cm Placement : Built-in wheels provide mobility
Room Conditions		5~40°C, 0~95%RH(Non-Condensing)
Printer		Built-in Thermal Printer(60Ø Roll Paper) Cycle Parameters(Temp, Pressure, Time, Daily&Total Cycle, etc) Alarm & Error Display
Others		Emergency Stop(Front), Operator ID Login, Self-Diagnosis, Multi-Language, RFID Coding System
Cart(Optional)		530mm(W) X 720(H) X 760(L) / 50kg

7) Built in Thermal Printer, Printout with Actual Cycle Information



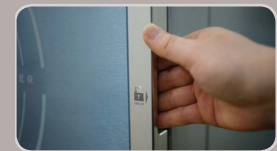
8) Login Function



9) Table-top Model



10) Auto Interlock & Open System



11) Useful Cart

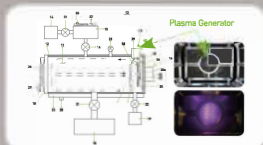


12) USB History Memory- and Monitoring System



LOWTEM Crystal 100

1) Rapid Warmup & Dry System



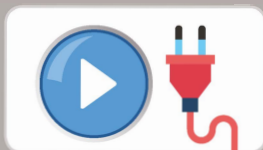
2) Convenient and Safe Sterilizing Agent



3) 7" full touch LCD, Easy Monitoring the Cycle Information



4) Plug and Play



5) All-in-one Basket Tray



Sterilizing Agent		Hydrogen Peroxide 25 Cycles/Bottle
Total Cycle Time	Quick	25+5min
	Standard	35+5min
	Special	45+5min
Cycle Temperature		50 ± 5°C
SAL(Sterility Assurance Level)		10 ⁻⁶
By-products		Oxygen and vapor water only
Lumenclaims		Rigid lumen & Flexible lumen, Endoscopes
Chamber	Type Material	Circle Stainless Steel (SUS)
Dimensions	Overall Chamber	680mm(W) X 1575(H) X 900(D) Ø 420mm X 720(D)
Volume		Total : 100 Liters
Weight		250Kg
Control		Microprocessor & Windows CE embedded
Cycle Information		Screen, Printer, USB, 100/10Mbps Ethernet(Optional)
PM Cycle		Automatic Alarm & Setup
Electrical		110V / 220V, 50 / 60Hz, 1Phase, 3000W
Installation Requirements		Front : 100cm Rear, Left side, Right side : 10cm Placement : Built-in wheels provide mobility
Room Conditions		5~40°C, 0~95%RH(Non-Condensing)
Printer		Built-in Thermal Printer(60Ø Roll Paper) Cycle Parameters(Temp, Pressure, Time, Daily&Total Cycle, etc) Alarm & Error Display
Others		Emergency Stop(Front), Operator ID Login, Self-Diagnosis, Multi-Language, RFID Coding System



Sterilizing Agent		Hydrogen Peroxide 25 Cycles/Bottle
Total Cycle Time	Quick	25+5min
	Standard	35+5min
	Special	45+5min
Cycle Temperature		50 ± 5°C
SAL(Sterility Assurance Level)		10 ⁻⁶
By-products		Oxygen and vapor water only
Lumenclaims		Rigid lumen & Flexible lumen, Endoscopes
Chamber	Type Material	Rectangular Stainless Steel (SUS)
Dimensions	Overall Chamber	680mm(W) X 1580(H) X 900(D) 400mm(W) X 350(H) X 750(D)
Volume		Total : 105 Liter
Weight		260Kg
Control		Microprocessor & Windows CE embedded
Cycle Information		Screen, Printer, USB, 100/10Mbps Ethernet(Optional)
PM Cycle		Automatic Alarm & Setup
Electrical		110V / 220V, 50 / 60Hz, 1Phase, 3000W
Installation Requirements		Front : 100cm Rear, Left side, Right side : 10cm Placement : Built-in wheels provide mobility
Room Conditions		5~40°C, 0~95%RH(Non-Condensing)
Printer		Built-in Thermal Printer(60Ø Roll Paper) Cycle Parameters(Temp, Pressure, Time, Daily&Total Cycle, etc) Alarm & Error Display
Others		Emergency Stop(Front), Operator ID Login, Self-Diagnosis, Multi-Language, RFID Coding System

6) Automatic PM Alarm System



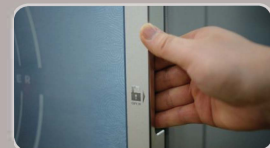
7) Built in Thermal Printer, Printout with Actual Cycle Information



8) Login Function



9) Auto Interlock & Open System

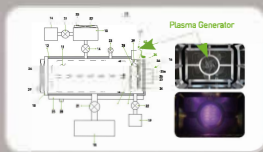


10) USB History Memory- and Monitoring System



LOWTEM Crystal 120M / 120D

1) Rapid Warmup & Dry System



2) Convenient and Safe Sterilizing Agent



3) 7" full touch LCD, Easy Monitor the Cycle Information



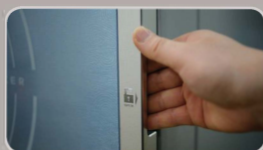
4) Plug and Play



5) Spacious chamber size



6) Auto Interlock & Open System



7) Double door system



Sterilizing Agent		Hydrogen Peroxide 20 Cycles/Bottle
Total Cycle Time	Quick	30+5min
	Standard	40+5min
	Special	50+5min
Cycle Temperature		50 ± 5°C
SAL (Sterility Assurance Level)		10 ⁻⁶
By-products		Oxygen and vapor water only
Lumenclaims		Rigid lumen & Flexible lumen, Endoscopes
Chamber	Type Material	Rectangular Stainless Steel(SUS)
Dimensions	Overall Chamber	120M : 680mm(W) X 1575(H) X 940(D) / 120D : 680mm(W) X 1575(H) 785(D) 120M : 420mm(W) X 400(H) X 775(D) / 120D : 420mm(W) X 450(H) 720(D)
Volume		Total : 130 Liters
Weight		290Kg
Control		Microprocessor & Windows CE embedded
Cycle Information		Screen, Printer, USB, 100/10Mbps Ethernet(Optional)
PM Cycle		Automatic Alarm & Setup
Electrical		110V / 220V, 50 / 60Hz, 1Phase, 3000W
Installation Requirements		Double Door : Front, Rear(100cm), Left, Right(10cm) Single Door : Front(100cm), Rear, Left, Right(10cm) Placement : Built-in wheels provide mobility
Room Conditions		5~40°C, 0~95%RH(Non-Condensing)
Printer		Built-in Thermal Printer(60Ø Roll Paper) Cycle Parameters(Temp, Pressure, Time, Daily&Total Cycle, etc) Alarm & Error Display
Others		Emergency Stop(Front), Operator ID Login, Self-Diagnosis, Multi-Language, RFID Coding System

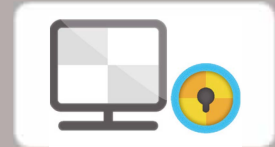
LOWTEM Smart 150/150D



8) Built in Thermal Printer, Printout with Actual Cycle Information



9) Login Function



10) USB History Memory and Monitoring System



11) Automatic PM Alarm System



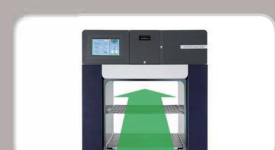
12) Open/Close Foot Switch



13) Sliding Door



14) Double Door System



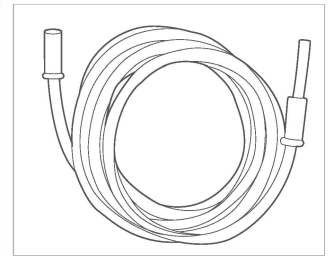
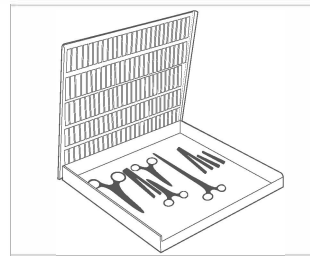
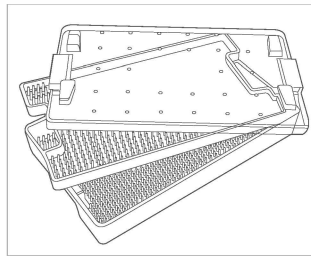
Sterilizing Agent		Hydrogen Peroxide 15 Cycles/Bottle
Total Cycle Time	Quick	30+5min
	Standard	40+5min
	Special	50+5min
Cycle Temperature		50± 5°C
SAL(Sterility Assurance Level)		10 ⁻⁶
By-products		Oxygen and vapor water only
Lumenclaims		Rigid lumen & Flexible lumen, Endoscopes
Chamber	Type Material	Rectangular Stainless Steel(SUS)
Dimensions	Overall Chamber	150 : 700mm(W) x 1610(H) x 890(D) / 150D : 700mm(W) X 1610(H) X 925(D) 150 : 450mm(W) x 450(H) x 760(D) / 150D : 450mm(W) X 450(H) X 750(D)
Volume		Total : 150 Liter
Weight		150 : 370Kg / 150D : 390Kg
Control		Microprocessor & Windows CE embedded
Cycle Information		Screen, Printer, USB, 100/10Mbps Ethernet(Optional)
PM Cycle		Automatic Alarm & Setup
Electrical		110V / 220V, 50 / 60Hz, 1Phase, 3000W
Installation Requirements		Double Door : Front, Rear (100cm), Left, Right (10 cm) Single Door : Front (100cm), Rear, Left, Right (10 cm) Placement : Built-in wheels provide mobility
Room Conditions		5-40°C, 0-95%RH(Non-Condensing)
Printer		Built-in Thermal Printer(60Ø Roll Paper) Cycle Parameters(Temp, Pressure, Time, Daily&Total Cycle, etc) Alarm & Error Display
Others		Emergency Stop(Front), Operator ID Login, Self-Diagnosis, Multi-Language, RFID Coding System

What type medical instruments can be sterilized?

LOWTEM plasma sterilizer is suitable for surgical instruments including the delicate, heat-sensitive and moisture-sensitive medical instruments. LOWTEM Plasma sterilization process is compatible with a wide range of medical instruments and materials.

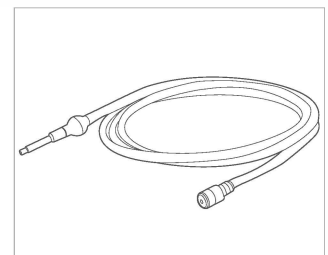
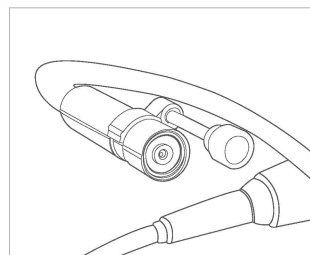
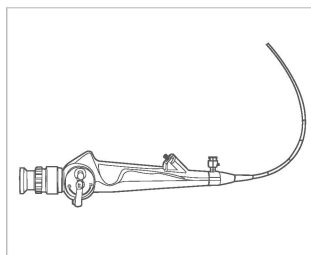
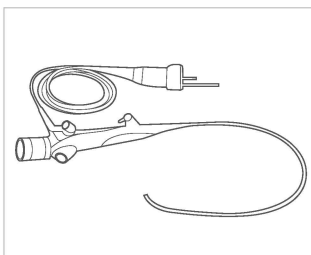
General Instruments

- Scissors, Scalpels, Saws
- Forceps, Clamps
- Retractors, Surgical hooks
- Knives, Blades, Trocars
- Batteries
- Suction tubes
- Sterilization cases
- Trays



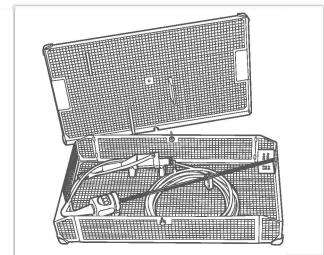
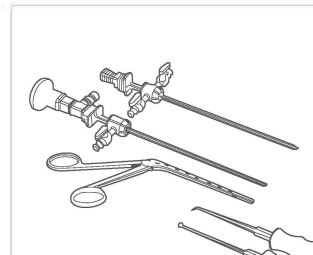
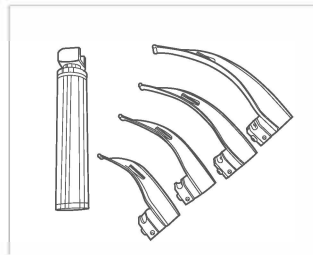
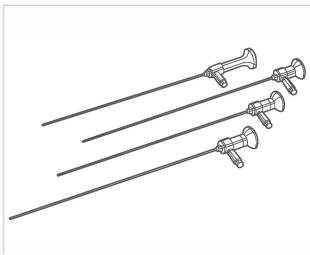
Flexible endoscopes and accessories

- Bronchoscopes
- Hysteroscopes
- Cystoscopes
- Ureteroscopes
- Cameras
- Light cords



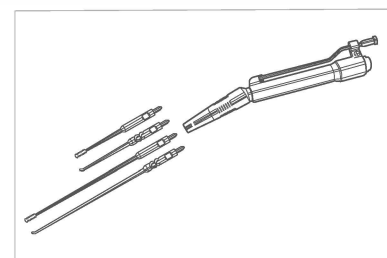
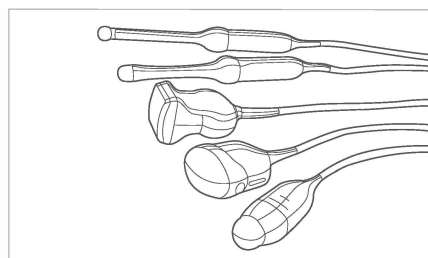
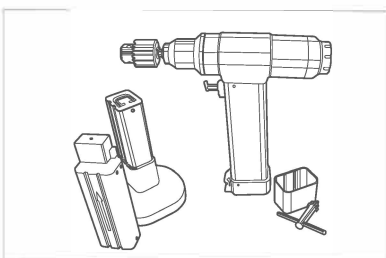
Rigid endoscopes and accessories

- Laryngoscopes
- Arthroscopes
- Laparoscopes
- Surgical Telescopes
- Laparoscopic instrument sets
- Intuitive surgical daVinci scope
- Cannulas
- Trocar sheaths



Energy based devices

- Ultrasonic handpieces
- Power drills
- Ultrasound probes
- Transducers



LOWTEM plasma sterilizer is applicable for surgical instruments including metal, nonmetal, humidity and heat sensitive instruments. Please refer to the followings for the compatible materials; Aluminum, Brass, Delrin, EVA, Glass, Kraton, Neoprene, Noryl Nylon, PEEK, PMMA, Polycarbonate, Polyethylene, Polystyrene, PVC, Polyurethane, Radel, Silicone, Stainless steel, Teflon, Titanium, Polyetherimide.



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