

LOW TEMPERATURE H₂O₂ PLASMA GAS STERILIZER

PURE Series

SPEED

- Cycle time is only in 25 minutes

FLEXIBILITY

- 3 Programmed cycles

GENTLE

- Process temperature is low

PRODUCTIVITY

- Fast instrument turnaround times

ENVIRONMENT-FRIENDLINESS

- No harmful by-products (Vapor H₂O, Oxygen)



MAIN FEATURES AT A GLANCE



Wide Sterilization Chamber

- Wide & Deep chamber dimension
- No Plasma Error from loaded items
- Durable Stainless steel(SUS) chamber
- 2-tiered shelves (Removable)
- Easy to open & close door system



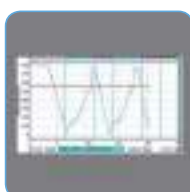
Sterilizing agent

- Patented technology
- Cassette for multiple cycle (4~7 cycles / cassette)
- Easy to change & load
- Constant H2O2 dose system
- Barcode system for tracking information
- 100% sealed capsules (leak protection for storage / transportation)

GRAPHIC USER INTERFACE



Embedded computer system



Cycle parameters graph
(Screen display, Print-out)



Cassette graph display
(Count of remaining capsules)



LARGE LED DISPLAY FOR PROCESS MONITORING

- Patented technology
- Color-coded circle LED which can be recognized from more than 10M distance
- Progressive bar for elapsed time, Error status, Completed status, Cycle stage display



WIDE COLOR TOUCH SCREEN

- PURE 20 : 4.3" color-coded Touch monitor
- PURE 40 / PURE 50 : 7" wide color-coded Touch monitor
- PURE 120 / PURE 120D : 10" wide color-coded Touch monitor



EXTERNAL USB & ETHERNET PORT

- Sterilization data download into USB
- Universal Storage & Reading device(USB), No memory card reader required
- Ethernet(LAN) for remote service extension

PURE's advanced technologies



PM ALARM

- Alarm for periodic PM(Preventive Maintenance) cycle
- Print-out for PM schedule



CUTTING-EDGE PLASMA TECHNOLOGY

- High voltage plasma
- Low cost for replacement



AUTOMATIC SLIDING DOOR(PURE 120 / 120D)

- Hands-free operation
- Vertical sliding door
- Open/Close by Foot switch sensor and Monitor button
- Double safety door sensor



EMBEDDED THERMAL PRINTER

- Print data : Sterilant information, Daily&Total cycle, Cycle parameters, Cycle time & date, Cycle status, etc.
- No Ink cartridge required



USER LOG-IN SYSTEM

- Multi-user and 3 levels log-in system
- Security for sterilizer
- Easy maintenance screen from monitor



EMBEDDED CART(PURE 50)

- Spacious storage cabinet
- Mobile wheels

WHICH DEVICES CAN BE STERILIZED IN PURE SERIES?

(Applicable for PURE 50, PURE 120, PURE 120D)

ITEMS	STERILIZATION PROGRAM		
	SHORT	STANDARD	ADVANCED
Surgical Scissor	✓	✓	✓
Defibrillator Paddles	✓	✓	✓
Ocular Lens	✓	✓	✓
Video Camera, Couplers	✓	✓	✓
Fiber optic light cables	✓	✓	✓
Electrosurgical Forceps	✓	✓	✓
Electrocautery	✓	✓	✓
Rechargeable Battery	✓	✓	✓
Dopplers	✓	✓	✓
Esophageal dilator	✓	✓	✓
Cryo-probes	✓	✓	✓
Ultrasound Probes	✓	✓	✓
Patient Lead Cables	✓	✓	✓
Cranial pressure transducer cable		✓	✓
Laparo-scopes		✓	✓
Arthro-scopes		✓	✓
Laryngoscope		✓	✓
Resectoscope		✓	✓
Teflon lumen device (More than 1Ø (ID) x Shorter than 10,000mm (L))		✓	✓
Stainless steel lumen device (More than 1Ø (ID) x Shorter than 500mm (L))		✓	✓
Flexible lumen with one end closed (More than 2Ø (ID) x Shorter than 1,500mm (L))		✓	✓
Tubing		✓	✓
Power Drill			✓
Medical device with Silicon pad			✓
In sterile container			✓
Flexible endoscope (More than 1Ø (ID) x Shorter than 3,000mm (L))			✓
GI endoscope			✓
Cysto-scope			✓
Uretero-scope			✓
Hystero-scope			✓
Broncho-scope			✓
Trocar Cannular			✓
Trocar Sheaths			✓
TUR set			✓
Handpieces			✓
Da Vinci and da Vinci S, Si endoscope			✓
Surgical instrument(including hollow & multichannel)			✓
Container of Anesthesia & Respiratory equipment			✓

*For more detailed information, refer to Device Compatibility List for PURE series



HANDPIECE



MICRO SET



RIGID SCOPE



STERILE CONTAINER



ENDOSCOPE

PURE 120



- Plasma(High Voltage) + Hydrogen Peroxide(H₂O₂) sterilization technology
- Sterilization in a moisture free environment at low temperature
- Sealed cassette type sterilant(4~8 cycles) with separate ampule
- 3 programmed cycles
- Parameters(Temperature, Pressure, Cycle time, Daily cycle, Total cycle, remaining sterilant level, etc)
- Graphical cycle process information
- Graphical sterilant level information(Remaining capsule count)
- Operator log-in function(more than 3 levels)
- USB cycle data backup / Ethernet Port
- Electric plug only
- No required for water, ventilation, plumbing facility
- Cycle cancel function
- Automatic sterilant gas evacuation process if electric power is lost during sterilization
- LED Display for process monitoring(Error / Cycle status)
- Alarm for materials & excess humidity(No sterilant loss)
- Self-diagnosis function(Vacuum&Leakage, Temperature, Parts test)
- Environment friendly, No toxic by-products(Vapor H₂O, O₂)
- Visual and Audible alarm
- SAL : 10⁻⁶
- Electric power failure alarm
- Microprocessor & Embedded system(Windows CE)
- Constant dose of sterilant for every injection phases(Capsule type)
- Sound volume adjustable from monitor screen
- Automatic sliding door system(On screen, Foot sensor)
- Reprinting function for previous cycle history
- PM 1 & 2(Preventive Maintenance) alarm
- No booster and endoscope adaptor required
- Stainless steel chamber
- Automatic cassette Loading & Eject system
- H₂O₂ injection at vacuum pressure
- No Sewage system required
- HEPA filter(99.999%)

PURE 120 SPECIFICATION SHEET

Sterilization Cycle(at + 55°C)	Short	35±5 minutes(Surface sterilization), 8cycles / cassette
	Standard	45±5 minutes(Long lumen), 4cycles / cassette
	Advanced	55±5 minute(Complicated lumen, Endoscope), 4cycles / cassette
Sterilizer	Dimension	750mm(W) x 1,670mm(H) x 1,000mm(L)
	Weight	350Kg
Sterilization chamber	Total Dimension	410mm(W) x 410mm(H) x 840mm(D) (140.5 Liters)
	Open /Close	Vertical sliding door
	Type	Rectangular, SUS304 / 316, 2 tiered shelves
	Usable Dimension	410mm(W) x 380mm(H) x 840mm(D) (131 Liters)
Sterilization agent	Hydrogen peroxide(50 ~ 60%), 4 ~ 8 cycles / cassette	
Electricity	220 ~ 230V (±10%); 50/60Hz, Single Phase, 3.5Kw	
Operational environment	10 ~ 40°C, 10 ~ 90RH%(Non-condensing)	
Data	Printer	Embedded(54mm Thermal Paper)
	Barcode	Sterilant cassette information
	Memory	USB memory, Ethernet(LAN)
Display	10" Color-coded Touch Monitor	
Installation environment	- Front : 800mm - Rear : 100mm - Upper : 100mm - Left, Right : 100mm - Flat floor	

PURE ACCESSORIES



STERILIZING AGENT

- Chemical : Hydrogen Peroxide
- Concentration : 50 ~ 60%
- Type : 7 cycles / Cassette(PURE 40, PURE 50)
4 ~ 8 cycles / Cassette(PURE 120, 120D)
- Shelf life : 12months(2 ~ 10°C), 6months(10 ~ 25°C), 20days(After loaded)



CHEMICAL INDICATOR STRIP

- Color change : Pink -> Blue
- Shelf life : Marked in packing



CHEMICAL INDICATOR TAPE

- Color change : Pink -> Yellow
- Shelf life : Marked in packing



BIOLOGICAL INDICATOR(SCBI)

- Self-Contained biological Indicator
- Geobacillus Stearothermophilus
- Spore population : $1 \sim 2 \times 10^6$ cfu
- Culture Medium Color : Purple
- Shelf life : Marked in packing



TYVEK POUCH

- For packing medical device
- Sealing temperature : 110 ~ 130°C
- Material Front : Polyethylene + Polyester, Rear : Tyvek
- Width : 75mm, 100mm, 150mm, 200mm, 250mm, 300mm, 400mm
- Shelf life : 5 years in dry condition, Single Use Only



B/I INCUBATOR

- For incubating Biological Indicator
- Temperature : $58^\circ\text{C} \pm 2^\circ\text{C}$
- Electricity : AC 110/220V, 50/60Hz
- Size : 140(W) x 80(H) x 140(D)mm



LOADING BASKET

- For loading items to be sterilized
- Material : SUS316



PRINTER PAPER

- Thermal Printer
- SIZE : 54(W) x 40(Ø)mm



NON-WOVEN SHEET

- SIZE : 91cm x 91cm, 114cm x 114cm
- Single Use Only



APPLIED STANDARD

- EN ISO9001 - EN ISO13485:2016 - EN ISO14937:2009 - EN ISO14971:2012 - EN1041:2008 - EN ISO15223-1:2016 - EN61010-1:2010
- EN61010-2-040:2015 - EN55011:2009/A1:2010(CISPR 11:2009+A1:2010) - EN61326-1:2013 - EN61000-3-2:2014
- EN61000-3-3:2013 - EN62304-2006/AC:2008 - MEDDEV 2.7/1/Rev.4