

neuster

Low Temperature
Hydrogen Peroxide
Plasma Sterilization



award
winning
plasma sterilizer

neuster

neuster SW H₂O₂ Plasma Sterilizer



neuster awarded for elegance and utility

Neuster H₂O₂ Plasma Sterilizer was recognized with the **iF Design Award** in the product category for medicine, healthcare for its ergonomic design and impressive features. With its minimal and modern design, neuster H₂O₂ plasma sterilizer strikes perfect balance between elegance and utility.

The sterilizer provides exceptional sterilization performance and user comfort thanks to its sophisticated technology and user interface. The front surface is covered with black shock resistant glass surface combined with a large sized capacitive touchscreen.



Healthcare Technologies

PMS, is an international producer of sterilization consumables and devices. Since 1997, it is producing efficient, reliable and flexible solutions for healthcare institutions and medical device manufacturers (MDM) with its wide product range.

Operating in more than 77 countries in five continents and with production plants in international standards in Turkey and sales office in Germany, PMS is a reliable partner with its strategic and global collaborations and more competitive and innovative approach.



PMS Worldwide 77 countries on 5 continents



PMS is operating in more than 77 countries on five continents and with production plants in international standards in Turkey and sales office in Germany.

90% Export - Over 90% of produced goods are exported worldwide from facilities in Turkey.

77 Countries - PMS branded products are served in 77 countries worldwide.

180 Distributors - A wide distribution network with more than 180 distributors.

Driven By Innovations

PMS R&D Center supports our business through a wide range of initiatives, from common researches to new product development, as well as R&D leading to future new business.

PMS achieved superior Tyvek reels and pouches with a perfect match to specially improved **PET/PE Film** thanks to collaboration with DuPont.



Driven by innovation, **PMS** becomes the only company **worldwide** manufacturing the **plasma sterilizer** and its **consumables** in-house.

PMSSteripack® • **PMSSteri-test®** • **PMSSteriseal®** • **neuster**

fundamentally different

Device Models

neuster SWS

- 150 liter chamber volume
- Single door

neuster SWD

- 150 liter chamber volume
- Double door
- Pass through operation



High Performance

- 3 pre-validated sterilization cycles
- Sterilization of heat and moisture sensitive medical devices
- Detailed documented sterilization efficiency and material compatibility studies

Low Running Costs

- Complete solution and service provider
- Validated consumables
- H₂O₂ sterilization agent for 15 cycles
- Time and cycle cost saving

Advanced Technology

- Sterilization efficiency by advanced vaporizer system
- Improved RF Plasma technology
- User and Sterilant traceability with RFID
- USB, WIFI and LAN connectivity

Environment & User Friendly

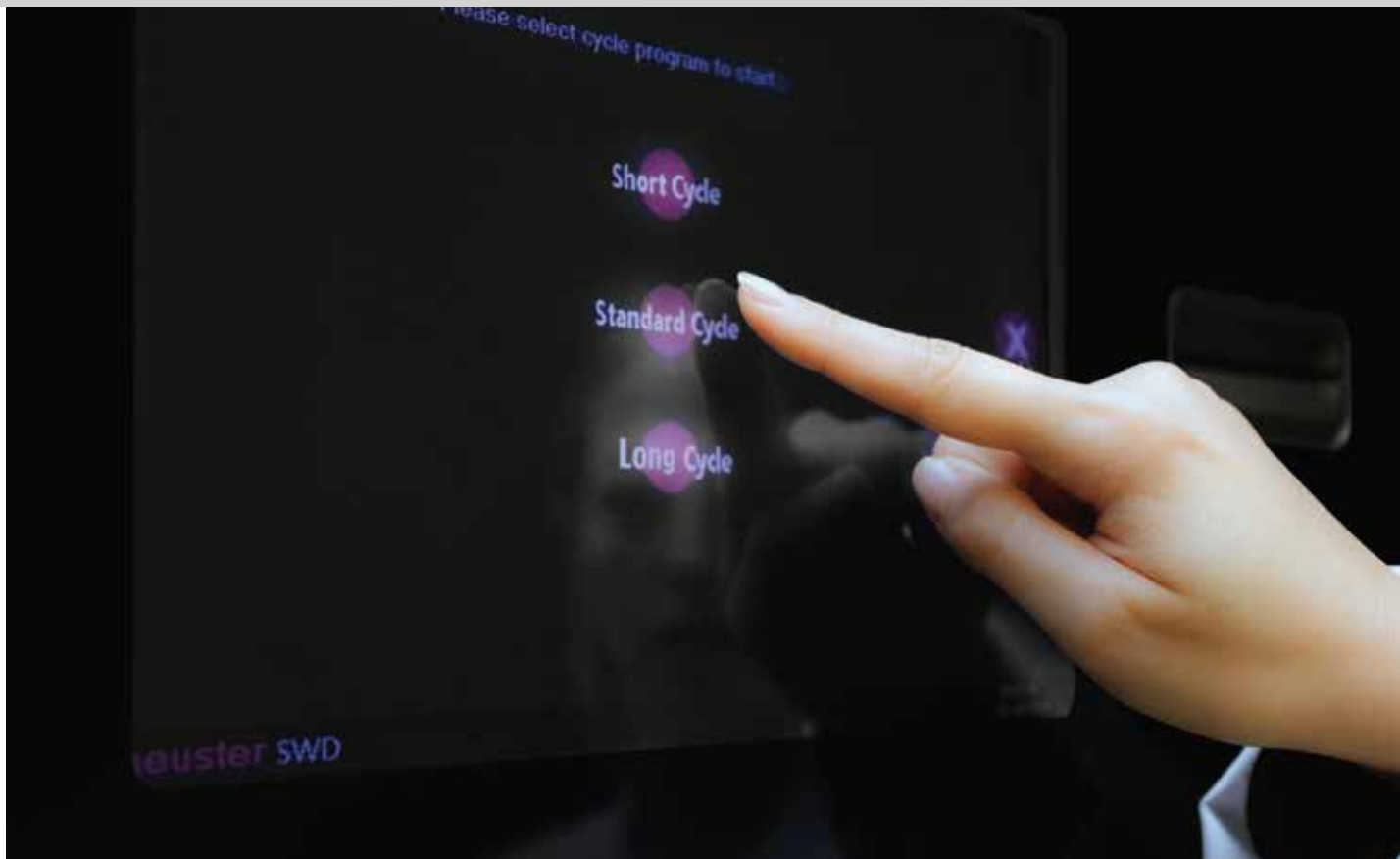
- No toxic or hazardous residue
- Hydrogen peroxide composed to water and oxygen during sterilization
- Plug & Start feature
- No need for complicated water supply or air ventilation installation

Use Ergonomics

- Understandable and easy to use user interface
- Hands-free loading with foot sensor
- Real time cycle monitoring and recording
- Validatable sterilization process
- Mobile and flexible

neuster
SW H₂O₂ Plasma Sterilizer

one touch start cycle



User Interface

Neuster SW series sterilization systems feature unique sliding menu configuration allowing the operator single touch run of a cycle and accessibility over various user controls from a single menu frame.

Unlike common difficult to use screen keyboards, the operator identification is achieved through electronic ID cards.

All gathered cycle data including validation assessment, diagnostics and operational history along with operator credentials are retained in device memory for at least 11 years.

The device is capable of automatically sharing of these logs over the institutions network securely. All real time data can be monitored remotely.

A wide range of features

Long-Term Investment

Neuster SW Series Sterilization Systems are the latest development in low temperature hydrogen peroxide plasma sterilization. They are designed with most advanced electronic and mechanical features for fully automated safety & control to serve your facility years after years.

Mobility & Flexibility

Ready to use, just plug in and start. No additional installations are required. Reduced weight and device mobility enables easy relocation and superior compability of CSSD maintenance. All sterilizers are designed for optimum use of power and low energy consumption, without affecting the performance.

User Friendly

All sterilizers are featured with a touch screen computer control. One touch sliding menu provides easy operator access to detailed device controls, cycle records and settings. Equipped with most powerful device components more rapid sterilization cycles and faster sterilization flow of CSSD's are now possible.



Neuster SW series sterilization systems perform three different and pre-validated sterilization cycles defined by the sterilization load to be sterilized, duration and varying process parameters. With the one touch start cycle feature the user is able to select the best suiting program for the medical devices to be sterilized.

choose the most suitable program it's so easy now



sterilization cycles

SHORT Cycle



30 min

Short sterilization cycle can be selected for general metal instruments, rigid or semi-rigid endoscopes without lumens and rechargeable instruments.

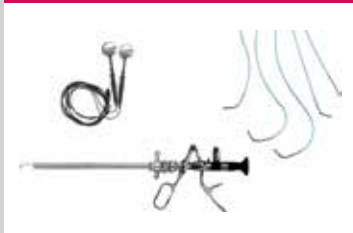
STANDARD Cycle



45 min

Standard sterilization cycle can be selected for rigid and flexible endoscopes with single channel and internal lumen diameter of 1mm or larger and 850mm length or shorter

LONG Cycle



55 min

General metal or non-metal medical instruments; single-channel stainless steel with internal diameter 0.7 mm or larger and length of 500 mm or shorter; Polyethylene and Teflon lumen tubing with 1mm diameter or larger and 1000 mm length or shorter

What can be sterilized?*

- Aluminum
- Brass
- Stainless steel
- Titanium
- Plastics medical devices made of
- Teflon (PTFE and similar)
- Polyethylene
- Polyurethane
- PVC
- Silicone
- Polystyrene
- Polypropylene
- PMMA
- ULTEM
- Radel
- PEEK
- Polycarbonate
- Lexan
- Macralone
- LCP
- Kraton
- EVA
- Nylon
- Polyamide
- Delrin
- POM
- Glass

* The operator should assess the sterilization load for its compatibility with hydrogen peroxide vapor sterilization prior starting a sterilization process. The operator should refer to the sterilization load guide provided with the device, guidelines provided by the medical device manufacturer and related institutions.

Complementary Products



neuster Sterilization Agent

Neuster SW series sterilizers consume %58 w/w hydrogen peroxide solution with custom stabilizer content. The sterilization agent is provided within dedicated containers that are electronically traceable.

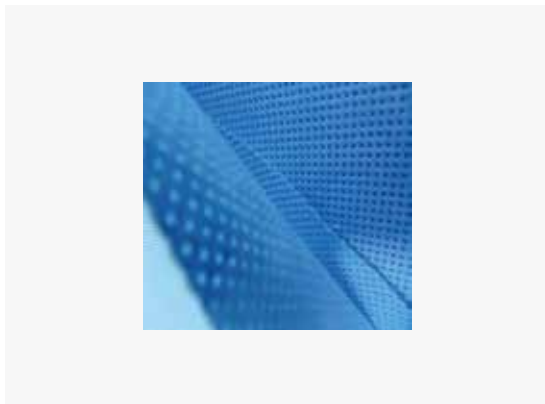
- 150 ml for 15 full cycles
- 30 ml for air freight
- Safe usage and handling
- Electronical traceability
- Validated packaging
- CE Marked



Tyvek Sterilization Reels and Pouches

PMSSteripack Tyvek sterilization reels and pouches are constructed from transparent multilayer PET/PE copolymer film and uncoated Tyvek web in compliance with EN 868-9. Water based, non-toxic process indicator for hydrogen peroxide sterilization complying with ISO 11140-1 is applied on the Tyvek surface and helps to differentiate between processed and unprocessed packages.

- FDA & CE certified
- Excellent microbial barrier properties
- Easy peel and aseptic presentation
- Wide sealing temperature window
- Easy to seal with old sealing machines



SMMS Wrapping Paper

PMSSteripack SMMS wrapping paper consists of four nonwoven polypropylene fabric layers and can be used either as inner or outer wrapping for medical devices and trays. The spunbond layers (S) provide good filtration properties, tensile strength and are fluid repellent while meltbown layers (M) ensure strong bacterial barrier properties with very small porous size.

- Superior bacterial protection
- Strong and durable
- Fluid repellent
- Memory-Free
- Good puncture and tearing resistance



H₂O₂ Plasma Indicator Strips

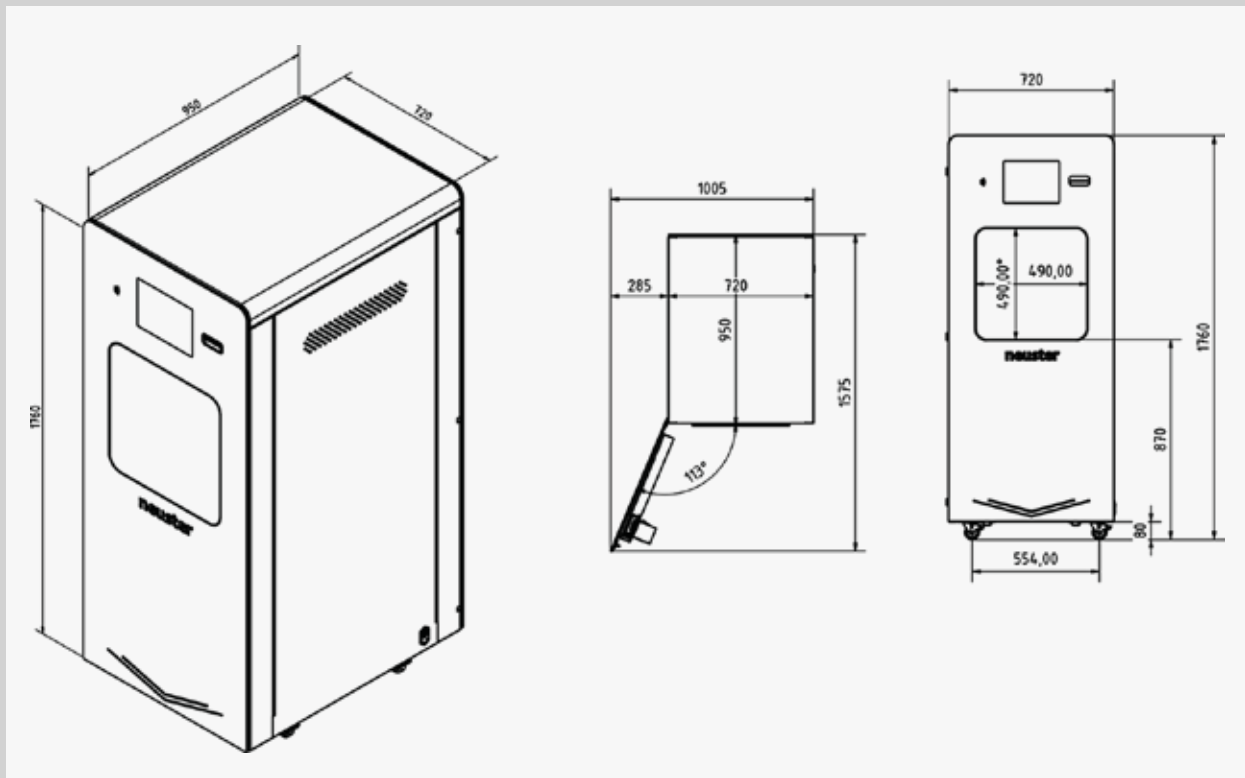
PMSSteriTest H₂O₂ Plasma indicator strips are designed to be used at low temperature hydrogen peroxide gas plasma sterilizers. The indicator strips can be used in every pack and will provide assurance of sufficient hydrogen peroxide gas penetration into pack. The water based and non-toxic chemical indicator in compliance with ISO 11140-1 will show a clear and accurate color change from violet to green after successful H₂O₂ plasma sterilization.

- Designed for vaporized H₂O₂ plasma sterilization
- Non-toxic, lead free process indicator and accurate color change
- Conforms to ISO 11140-1

neuster specifications



Technical Specification (neuster SWS - SWD)		
Dimension & Weight	Height	1.760 mm
	Width	720 mm
	Depth	950 mm
	Weight	320kg (single door), 360kg (double door)
Chamber	Shape	Rectangular
	Volume	150 liter (full) 120 liter (usable)
	Dimension	490 mm x 490 mm x 700 mm
	Shelf	Two sliding stainless steel shelves
Cycle Times	Short Cycle	30 min
	Standard Cycle	45 min
	Long Cycle	55 min
General Specifications	Sterilant	%58 hydrogen peroxide, 15 cycles per bottle
	Touchscreen	12.1" Capacitive touchscreen
	Printer	Integrated printer module, brief and detailed printout
	RFID	User and sterilant traceability
	Diagnostic Test	Automatic diagnostic software for error detection
	Chassis	Aluminum chassis, tempered glass front surface
Operational Requirements	Cable Socket	IEC 320-20 socket
	Power	208-240 VAC 16A, 50/60 Hz single-phase
	Protection Level	IP22
	Installation Space	At least 20cm distance from the sides for air ventilation, suitable for wall embedding
Product Compliance	Standards	93/42/EEC (Medical Device Directive), ISO 9001, ISO 13485, ISO 14937, EN 61010-2-40, EN 61010-1, CE Medical Device Mark 1984





light weight and durable chamber design

brand new look after years of operation

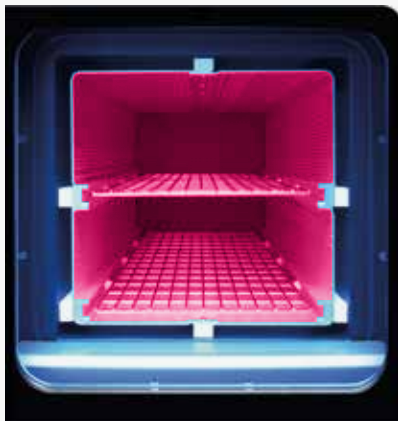


Neuster SW series sterilization systems are equipped with weight reduced aluminium chambers coated with specially formulated PTFE polymers.

Applied polymer coating is both non-stick and scratch resistant. Neuster device chambers will remain clean and brand new look after years of operation and intense utilization.

Two sliding shelves inside the chamber capable to carry heavy loads.

secure, user & environment friendly plasma



Neuster SW series sterilization systems utilize a RF plasma system to provide a residue free sterilization. The plasma system is activated during the sterilization process and enables the composition of hydrogen peroxide to water and oxygen molecules. Sterilization with plasma provides user safety and is environmental friendly.

Residue free sterilization



sterilization agent

%58 hydrogen peroxide

Neuster SW series sterilization systems are making use of 150 ml bottled sterilization agent to perform 15 cycles. Sterilization agents are separately validated and electronically traceable.

An automated front loading system is employed to accept or reject sterilization agent bottles. Usage data and validation credentials are stored and readily accessible.





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