



  
Partnership

## Low Temperature Sterilizer

# High Speed & Low Temperature Sterilization

Low temperature sterilization is fast, safe and cost-effective with the PlazMax sterilizer, a plasma sterilizer designed to sterilize heat-sensitive instruments and materials. Its speed and space-efficient chamber help process high volume demand, with instruments being available for immediate use after sterilization. It has the versatility to sterilize a wide range of instruments including endoscopes.



## PlazMax Line

### Innovative

- Deep sterilization penetration: 10 meter lumen with 1 mm diameter - open on both ends
- Time saving: penetration and leakage test cycles are measured on a shortened cycle
- Fast cycle turnaround: 25 minutes for the P50 model
- Light weight and long lasting aluminium chamber in a stainless steel structure
- Noise level below <65 dB for P50 model

### Cost-Effective

- After sterilization, instruments are available for immediate use or storage which reduces the need for expensive backup inventories
- Fast turnaround means increased inventory utilization
- Gentle sterilization extends your instrument's life span by minimizing damage and reducing costly repair or replacement

### Features

- Easy to install - no water, steam generator, or ventilation required
- High vacuum pump for deep penetration
- Minimal utility requirements - only electricity and the sterilizing agent are required
- Easy mobility on four built-in wheels
- Automatic door locking
- Steam autoclave sterilization is not suitable for heat-sensitive equipment whereas a plasma sterilizer is suitable
- Environmentally friendly due to no water consumption, no toxic exhaust, and low electric power needs



## Safety Features

Tuttnauer strives to provide sterilizers that ensure safety for patients, staff, and the environment. Safety features include:

- No hazardous or odorous emissions
- Low temperature and pressure during sterilization
- The sterilization process results in water and oxygen by-products
- Door is locked during cycle operation

## Monitoring and Control

The PlazMax features a user-friendly, microprocessor based control system which offers enhanced monitoring and control, and features:

- Easy to read 5" touch screen
- User-friendly interface that indicates cycle stage and elapsed time
- Biological and chemical indicators housed in vials are used for Routine Control

## Routine Control

A Process Challenge Device (PCD) lumen kit is available for use with biological indicators. The kit includes lumens of 2 and 3 lumens (one side closed), and 5 and 10 lumens (open on both sides).

## Documentation

The PlazMax sterilizer is equipped with a built-in matrix printer to document the performed cycle.

## Validation

The PlazMax is able to perform independent validation according to the ISO 14937 with an optional validation kit. Each phase of the cycle is validated. The validation kit includes:

- Temperature and pressure sensors
- PC software



## Sterilization Cycle and Test Programs

The PlazMax comes with three preprogrammed cycles. A Lumen Kit is used for the test cycles.

Model	Normal Cycle Time (min.)	Advanced Cycle Time (min.)	Endoscope Cycle Time (min.)
	Non-hollow loads	Hollow loads	Two endoscopes
P50	25 min.	35 min.	35 min.
P80	25 min.	35 min.	35 min.
P110	25 min.	35 min.	35 min.
P160	30 min.	40 min.	40 min.

Test Cycles	Description
Test I	Penetration Test
Test II	Leakage Test
Test III	Leakage + Penetration test

## Standards and Directives

PlazMax has been developed according to the following international standards and directives:

### Standards

• NP EN ISO 9001:2000 • EN ISO 13485:2003 • EN ISO 14937 • EN 61010-2-040 • EN 61010-2-042

### Directives

• 73/23/EEC • 89/336/EEC • 98/37/EEC • 93/42/EEC • CE Medical Device Mark 0344

## Technical Specifications

Model	Volume (Liter)	Temp. (°C)	Door	Tray Size W x L (mm)	Power (kW)	Voltage (V) (50/60 Hz)
P50	47	< 55	1 or 2	400x600	2.9	230/110 (1 Phase)
P80	83	< 55	1 or 2	400x600	3.0	230/110 (1 Phase)
P110	109	< 55	1 or 2	400x600	5.0	230/110 (1 Phase)*
P160	162	< 55	1 or 2	400x900	7.0	230/110 (1 Phase)*

\* Optional 380 / 400 (3 Phase)

## Your Sterilization & Infection Control Partners

### Company Profile

For over 85 years, Tuttnauer's sterilization and infection control products have been trusted by hospitals, universities, research institutes, clinics and laboratories throughout the world. Supplying a range of top-quality products to over 110 countries, Tuttnauer has earned global recognition as a leader in sterilization and infection control.



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