

# Tuttnauer Medical

## PlazMax

◆ P50 ◆ P110 ◆ P160

The Innovative  
**Low Temperature  
Sterilizer**

for Heat-Sensitive  
Equipment



# Innovative Energy-Saving Solution



## The Tuttnauer Plazmax Line

For highly effective sterile processing in small operating rooms or large Central Sterile Services Departments (CSSD).

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### Safe | Reliable | Efficient

- Single phase electrical supply for all models lowers operational costs
  - Green technology - non-toxic emissions to the environment
  - Real-time graphical display of cycle parameters
  - Multiple model configurations: manual or vertical with single or double door option
- 



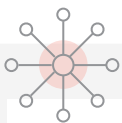
Putting your health and wellbeing first.

# Smart Design, Smart Technology



Thermal printer and USB port - for printing cycle information and downloading data

Aluminium chamber - aviation grade - homogeneous temperature distribution



Range of capacities to suit different tools and instruments

Advanced human machine interface (HMI)

Highly durable stainless-steel panels - prevents discoloration and easily cleaned



Non-toxic  $H_2O_2$  sterilizing agent



Vertical sliding door and hands-free opening device



**Contact us**  
to learn more about green processing.

# Clean Technology



Non-toxic sterilizing agent



No water consumption



Decreased electricity consumption



No toxic residue, only water and oxygen



## Using Eco Friendly $H_2O_2$ sterilizing agent

The PlazMax sterilizer inactivates micro-organisms with Hydrogen Peroxide ( $H_2O_2$ ) vapor and plasma. It sterilizes medical devices by diffusing  $H_2O_2$  into the chamber and then converting the  $H_2O_2$  molecules into a plasma state.

The sterilization occurs inside the chamber by means of  $H_2O_2$  vapor. The PlazMax utilizes the bacterium killing power of free radicals in the  $H_2O_2$  molecules released by applying heat to the  $H_2O_2$  gas in the vaporizer.

The combined use of  $H_2O_2$  vapor and plasma, safely and quickly sterilizes medical instruments and materials without leaving dangerous residues, thus offering an effective, reliable, economical, and easy sterilization method.

## User-Friendly Operation

### Sophisticated HMI Touch Screen

- Multi-color display
- Multilingual (26 languages)
- Real-time dynamic graph display (chamber pressure & cycle process)
- Process data display (pressure, temperature, vaporizer temperature)

### R.P.C.R Software

Automatic tracking cycle information to your PC (optional). Allows remote monitoring of the sterilizer's operation.



### Simple to Operate and Monitor



Thermal printer and USB port



Tracking equipment and maintenance notifications



Diagnostic in/out tests for individual components



Remote-control operating and monitoring



Hands-free opening device and vertical sliding door



Multiple access levels and user passwords

# Sterilization Process



## Sterilization Cycle and Test Programs

Model	Normal Cycle (Non-hollow loads)	Advanced Cycle (Hollow loads)	Endoscope *
	Cycle Time (min.)	Cycle Time (min.)	Cycle Time (min.)
P50	35	40	32
P110	39	44	37
P160	43	48	41

Test Cycles	Description
	Cycle Time (min.)
Test I	Penetration Test
Test II	Leakage Test

\* Endoscope cycle: Short heating time and reduced H<sub>2</sub>O<sub>2</sub> exposure time

Note: Cycle times are based on a hot cycle and may vary according to load volume



# Types of Loads & Cycles

The PlazMax Line offers regular sterilization cycles for non-hollow loads, advanced sterilization cycles for hollow loads, and a unique endoscope cycle.

## Non-Hollow Loads



Electrocautery instruments



Defibrillator paddles

## Hollow Loads



Surgical power drills



Shaver handpieces

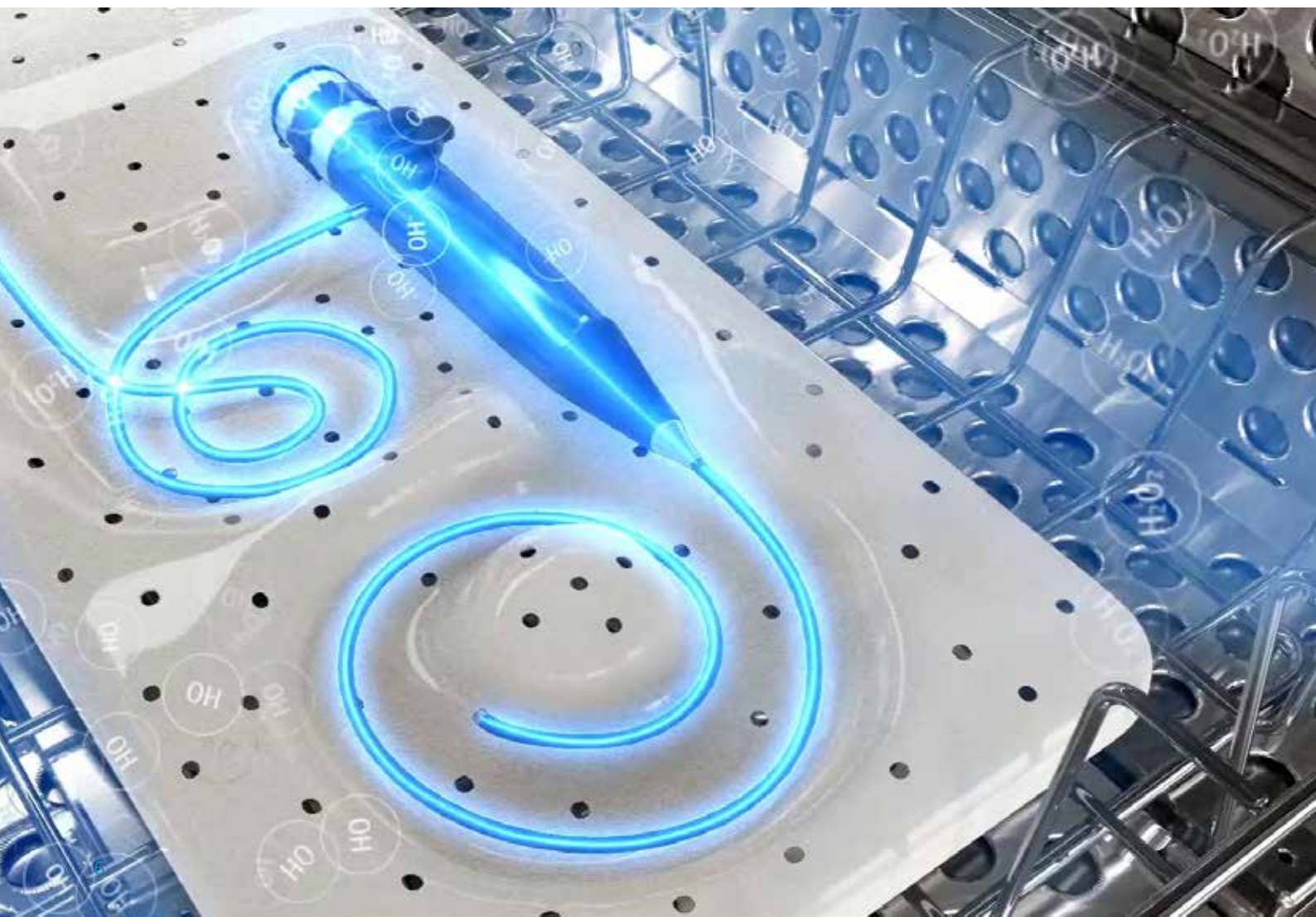
## Endoscope Cycles



Rigid scopes for optics



Flexible endoscope





## The Tuttnauer PCD Kit

Flexible Endoscope Simulation Kit

Assuring effective penetration and successful sterilization

Our unique PCD kit simulates long and challenging lumen configurations (1mm inner diameter lumen and up to 4m long for double side open ends and 1.4m with one dead-end), to assure complete sterilization penetration with full exposure to the vaporized hydrogen peroxide sterilizing agent.

# Comprehensive Tuttnauer Consumables



### Chemical Indicators

To be used with every cycle and every packed item, validating penetration and ensuring load contact with the vaporized hydrogen peroxide..



### Biological Indicators

To be used according to hospital policies and schedules, validating sterilization efficiency and scope.



### Self-Sealing Pouches

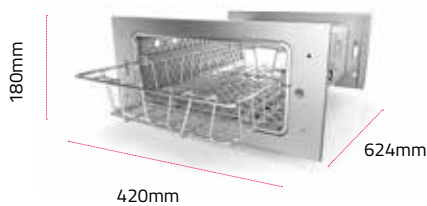
Tuttnauer offers a wide range of sealing and packaging products to support your entire packaging process.

## Technical Specifications

Model	Chamber Volume	External Dimensions (WxHxD/D 2-doors) mm	No. of Baskets (WxD cm)	Power (W) Current (A)	Voltage (V) 1-Phase 50-60 Hz
P50	47	702 x 1528 x 729 / 736	1 (40 x 60)	3100 W 13.5 A	230 V
P110	109	702 x 1768 x 729 / 736	2 (40 x 60)	4300 W 18.7 A	230 V
P160	162	702 x 1768 x 1029 / 1036	2 (40 x 90)	4300 W 18.7 A	230 V

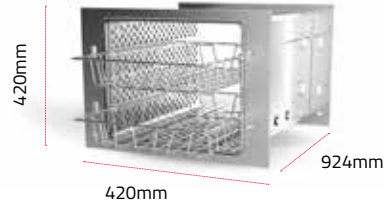
### PlazMax P50

47 Liter Chamber



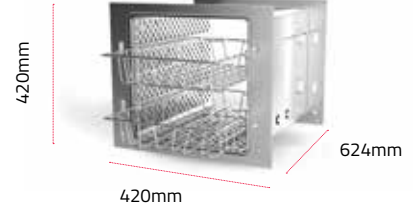
### PlazMax P110

109 Liter Chamber



### PlazMax P160

162 Liter Chamber



## PlazMax - Excellent Quality, Excellent Results

**PlazMax** complies with strict international standards and directives, to ensure quality and effective sterilization:

- ISO 9001:2015 ▪ ISO 13485:2016 ▪ ISO 14937 ▪ EN 61010-2-040:2015 ▪ EN 60601-1:2006/AC:2010
- Medical Device Directive 93/42/EEC

**The PlazMax** Sterilization Line can be used for applications and instruments that are suitable for plasma sterilization, as per manufacturer's guidelines.

Hospitals

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