



Horizontal Line

Horizontal Steam Sterilizers

Horizontal Steam Sterilizers for Healthcare Applications

The Tuttnauer line of healthcare sterilizers are designed for hospital operating rooms, central sterile supply departments, ambulatory surgery centers, dental schools, and other clinical settings. FDA cleared, the autoclaves come standard with vacuum, liquid, gravity and flash cycles to sterilize surgical instruments, utensils, gowns, wrapped/unwrapped goods and other healthcare instruments and supplies. All sterilizers are equipped with reliable non-proprietary components, maximizing “uptime” while providing an ultra low total cost of ownership. Autoclaves continue to be the first line of defense against infection and Tuttnauer takes this responsibility seriously.



Quality

Engineered with People in Mind

We work to keep our autoclaves state of the art. The components we use are of highest quality. Our healthcare autoclaves comply with the strictest international standards. A Tuttnauer autoclave is built to last longer and perform consistently. Our machines are engineered with careful attention to detail and with people in mind.

Safety

Safety is Our Top Priority

When it comes to the design of our horizontal sterilizers, protecting staff and patients is our first concern. Multi-level safety features prevent accidents and keep the autoclave running without downtime. A Tuttnauer autoclave is a safe autoclave.

Flexibility

Innovative Solutions that Suit Your Needs

The wide range of models and options we offer, take our healthcare sterilizers a step ahead. In addition, Tuttnauer autoclaves can be customized to meet your facility's unique needs.

With an ideal combination of Quality, Safety and Flexibility Tuttnauer's healthcare autoclaves are the most advanced, dependable and easy to use sterilizers available today.



Quality

Engineered with People in Mind

Our quality features enable the convenience and durability needed to operate a sterilizer with complete peace of mind. The chamber is constructed of long lasting 316L grade stainless steel with superior corrosion resistance. The chamber is fully jacketed for uniform heat distribution. In addition, the generator and piping are constructed of stainless steel. The pneumatic valves are air pressure operated, significantly reducing maintenance. To save energy, the sterilizers automatically switch to a standby mode.

Advanced Control

Classic Control System

The autoclave is equipped with an advanced control system and CAT2007 panel, and provides the following features:

- High precision control system for perfect and repeatable sterilization results
- Continuously displays the pressure in chamber, jacket, steam generator, and door gasket
- Ability to customize cycle parameters to maximize flexibility
- Password protection provides secure access
- Convenient data backup for cycle information recovery in case of power failure or cycle interruption
- Fail Alert – Indicates cycle failure or interruption
- Door Alert – Indicates unlocked door



Advanced Touch Screen Control System

An optional touch screen panel with a sophisticated user-friendly PLC control system based on the advanced Allen-Bradley (AB) platform provides the following additional features:

- A 7" touch screen for easy access to controls and information via the panel
- Multilingual - 23 languages
- Built-in view and back-up of historical cycle data and alarm/events stored on external flash memory
- Technician menus: Sensor Calibration, Change Parameters, In/Out test and PID tuning
- Graphical display of Temperature and Pressure trend graphs
- Up to 16 different Barcodes - optional



Complies with the Strictest International Directives and Standards

Technical Standards and Directives

- MDD 93/42 EEC; PED 97/23 EEC; EN 13445; WEE & RoHS Directives – 2002/95, 96, EMC Directive 89/336
- EN 61010-1:2001; IPX 4, EN 61010-2-040:2005- Safety of Autoclaves
- EN 61326 EMC; EN 285:2006 - Large Autoclaves
- EN 50082-1:97 – (EMC) Immunity Compatibility
- ISO 17665-1 - Validation and routine control.

Quality Standards

Tutt-nauer manufacturing plant meets the following quality standards:

- ISO 9001:2008 - Quality Management Systems
- ISO 13485:2003 – Quality Systems for Medical Devices
- 21 CFR 820





Safety

Safety is Our Top Priority

Door Safety

The autoclave doors are designed with a number of independent mechanical and digital safety features. This guarantees that if a problem should occur, an autoclave failure will be prevented.

- A safety device prevents the operator from opening the door when chamber is pressurized
- Steam is not allowed into the chamber when the door or gasket is open
- A cycle cannot start if the door is open or not properly locked
- The door cannot unlock until chamber pressure reaches room pressure
- Sliding Doors Safety - The sliding door progress will automatically stop if an obstruction is detected
- Double Door Safety – interlocks prevent both doors from being opened simultaneously

General Safety Features:

- **Double Independent Monitoring:** The combined digital and mechanical monitoring provides a cross reference and guarantees accurate results. The operator has two independent means to monitor temperature and pressure.
- **Safety Valves:** Both the chamber and the jacket are equipped with safety valves – if the pressure exceeds the allowed limit the safety valves will discharge
- **Built-in Steam Generator Safety:** A water level monitoring system maintains a constant water level and ensures safe operation of the heaters
- **Emergency shut-off:** Easily accessible emergency switches for immediate cycle shut-off

A Flexible Range of Sizes and Models

We offer an unmatched range of models that are available in three series: Compact, Mid Range and Large Capacity. The chamber sizes range from 120 to 1015 Liters. In addition, we accommodate for your special needs and design tailor made solutions and non standard chamber sizes. Each model is available with either single or double door.



The 44 and 55 Compact Series

Tuttnauer Small Hospital Autoclaves with chamber volume ranging is size from 120 Liters to 310 Liters.

The 44 and 55 series is available with two door options:

- Fully automatic vertical sliding door
- Manual door

Tuttnauer offers 5 different models:

Model	Chamber Dimensions (WxHxD) mm (inc.)	Chamber volume (Liter)
4472	408x408x730 (16x16x29)	120
4480	408x408x845 (16x16x33)	140
4496	408x408x970 (16x16x38)	160
5596	508x508x970 (20x20x38)	250
55120	508x508x1210 (20x20x48)	310



Manual Hinged Door



Vertical Sliding Door

The 66 Mid Range Series

Tuttnauer Medium Hospital Autoclaves with chamber volume ranging is size from 340 Liters to 600 Liters.

The 66 series is available with two door options:

- Fully automatic vertical sliding door
- Hinged door with automatic locking.

Tuttnauer offers 5 different models:

Model	Chamber Dimensions (WxHxD) mm (inc.)	Chamber volume (Liter)
6690	610x610x915	340
66120	610x610x1215	450
6671130	660x710x1295	610
6671162	660x710x1620	760



Vertical Sliding Door



Automatic Hinged Door

The 69 Large Capacity Series

Tuttnauer Large Hospital Autoclaves with chamber volume ranging in size from 515 Liters to 1015 Liters.

The 69 series is available with two door options:

- Fully automatic horizontal sliding door
- Hinged door with automatic locking.

Tuttnauer offers 4 different models:

Model	Chamber Dimensions (WxHxD) mm (inc.)	Chamber volume (Liter)
6990	610x910x915	510
69120	610x910x1215	680
69150	610x910x1515	840
69180	610x910x1815	1010



Automatic Hinged Door



Horizontal Sliding Door

Additional Options

Loading Equipment

Our loading equipment assists the loading and unloading process. It is made of high quality, durable stainless steel. We offer two options:

- **Pull Out Trays.** Stainless steel trays equipped with rails for easy loading and unloading. The rails are designed to prevent the trays from rolling over.
- **Loading Carts and Transfer Carriages.** The adjustable loading cart rolls from the transfer carriage onto the interior chamber tracks for easy handling of heavy loads. The trolley is equipped with revolving wheels, maximizing mobility in limited space. The wheel breaks prevent the trolleys from rolling and the carriage is equipped with a lock that prevents it from sliding.
- **Automatic Loader.** Designed for loading/unloading baskets. The control of the loader is integrated with the control of the autoclave.



High Precision Documentation

Process documentation is crucial within the CSSD. The modularity and flexibility of our system gives you targeted and customized solutions to track and document the sterilization process.

- **Optional 10" Touch Screen**

The touch screen displays cycle data in both a textual or graphical format and provides a continuous visual guide. Moreover, it provides a visual display of all piping for monitoring purposes.



- **SCADA Software**

SCADA software allows for control and monitoring of up to eight sterilizers on an external PC. The software retrieves data, creates graphs, tables and printouts.

- **Independent Chart Recorder**

The Chart Recorder is an independent temperature and pressure measuring system. It gives clear analog/mechanical trend records and print-outs in color. It is simple to operate and has an easy-view display.

- **Backup of Cycle History Data**

A record of cycle history data is critical for hospitals that need reliable documentation. The cycle history backup system stores thousands of hours of cycle data, displayed either graphically or numerically.

- **Barcode Reader**

The barcode reader allows material identification. The data is transferred to the SCADA software and linked to the sterilization cycle parameters for streamlined instrument handling.

Additional Solutions

Tuttner offers multiple solutions that answer unique requirements, enhance hospital sterilization procedures, and ensure a safe and worry free work environment.

Advanced sterilization cycles for special needs such as a low temperature streaming steam cycle, a disinfection program, an F₀ factor or advanced liquid sterilization programs.

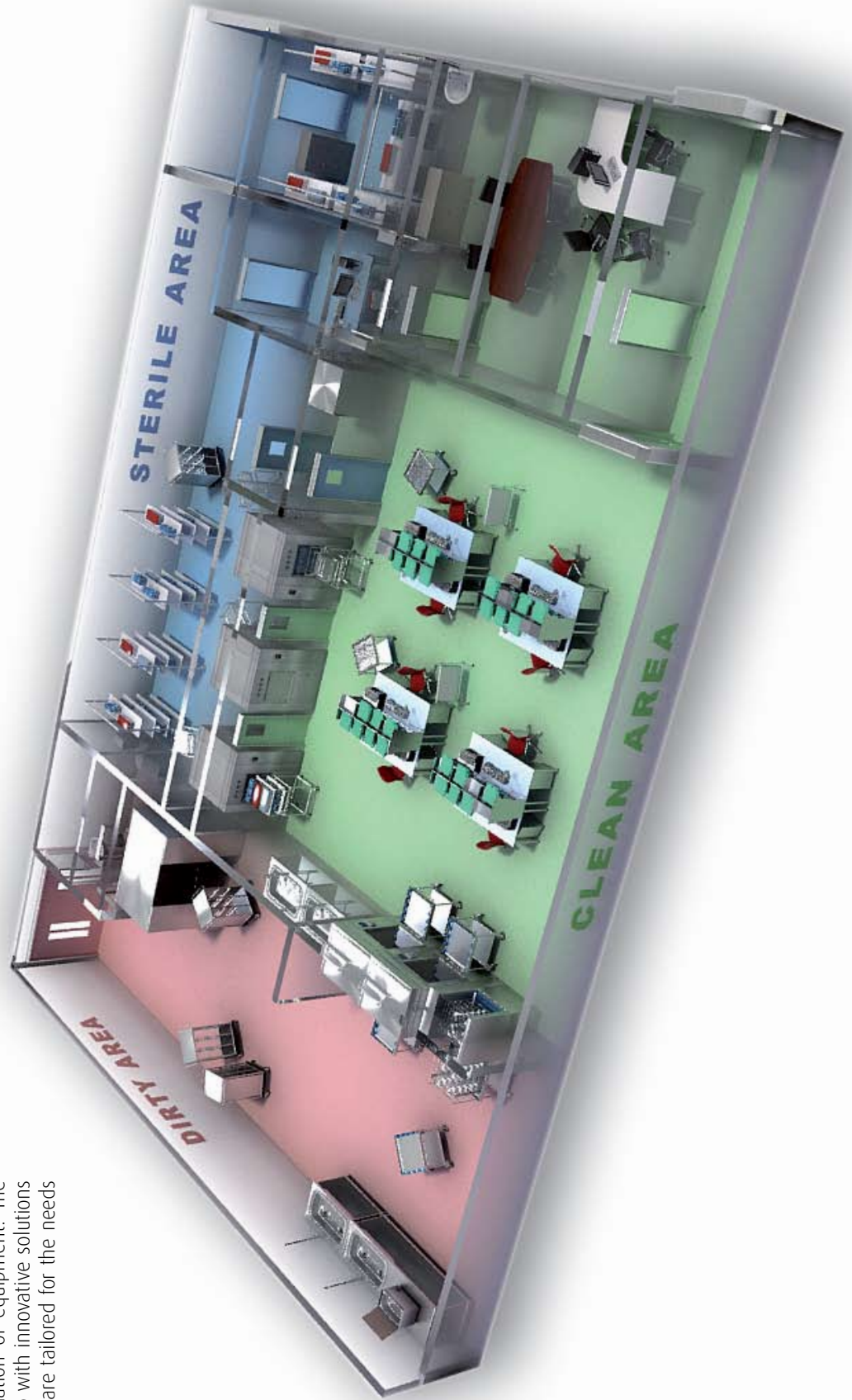
Advanced operation features include a multipurpose valve that can function as a backup in case of power failure, or an automatic shutdown or restart feature that economizes on power.

Clean steam options include: clean steam generator, stainless steel piping, components and fittings, and high grade stainless steel chamber.

CSSD Design

The design of a central sterile supply department requires many considerations: Proper design of areas within the department, choosing the right equipment and understanding the needs of the OR.

Tuttinauer manages complete turnkey solutions, including planning, design and installation of equipment. The Tuttinauer team will come up with innovative solutions and space saving ideas that are tailored for the needs of your hospital.



Your Sterilization & Infection Control Partners



Company Profile

For over 80 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 100 countries, Tuttnauer has earned global recognition as a leader in sterilization and infection control.

Global partnerships

At Tuttnauer we feel that business means people dealing with people. We pride ourselves on our reputation for having long-lasting relationships with our customers, spanning over decades and distances and for building solid, long-term relationships based on commitment and trust.

Our Flexibility is Your Advantage

Beyond our unmatched range of products, we also manage complete turnkey solutions, including planning, design and installation of equipment, as well as consultation and feasibility studies, for projects of all sizes.

More from Tuttnauer:

Featuring Tuttnauer's range of cleaning, disinfection and sterilization solutions



Low temperature sterilization for heat-sensitive equipment



Washer disinfectors for hospitals and laboratories



Laboratory autoclaves ranging in size and application



Pre & post vacuum tabletop sterilizers designed to perform class B cycles

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