



## Horizontal Steam Autoclaves

# Horizontal Steam Autoclaves for Healthcare Applications



## Horizontal Line

The Tuttnauer line of healthcare autoclaves is designed for central sterile supply departments (CSSD), hospital operating rooms (OR), ambulatory surgery centers, dental schools, and other clinical environments.

The horizontal steam autoclaves provide a variety of sterilization cycles for the sterilization of surgical instruments, utensils, gowns, wrapped/unwrapped goods and other healthcare instruments and supplies.

All autoclave 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

Tuttnauer autoclaves are built to last longer, perform consistently, and comply with the strictest international standards. Autoclave chambers are constructed of long lasting 316L grade stainless steel with superior corrosion resistance. The chambers are fully jacketed for uniform heat distribution. The generator and piping are constructed of stainless steel. The pneumatic valves are air pressure operated, significantly reducing maintenance. We work to keep our autoclaves state of the art.

## Safety

### Safety is Our Top Priority

When it comes to the design of our horizontal autoclaves, 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 offered, take healthcare autoclaves 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.



## Advanced Control System for Your CSSD

Take advantage of Tuttnauer's sophisticated user-friendly control systems for repeatable high performance. Choose either Tuttnauer's sophisticated Bacsoft controller or the Allen-Bradley (AB 1400 PLC) controller.

### Standard Features

- 7" Multi-color touch screen panel
- Keypad control panel on second door of two door autoclaves with Bacsoft controller
- Stores the last 200 cycles in built-in memory
- Multiple access levels and user passwords to control access/operation of the autoclave
- Diagnostic In/Out test (enables technician to check each system component separately)
- Sterilization Temperature range 105°C to 138°C

### Optional Features

- 10" Multi-color touch screen
- 21 CFR part 11
- Up to 8 different barcode readers
- Independent Recording for cross-checking cycle measurements
- Disinfection/Isothermal Temperature range from 70°C to 95°C

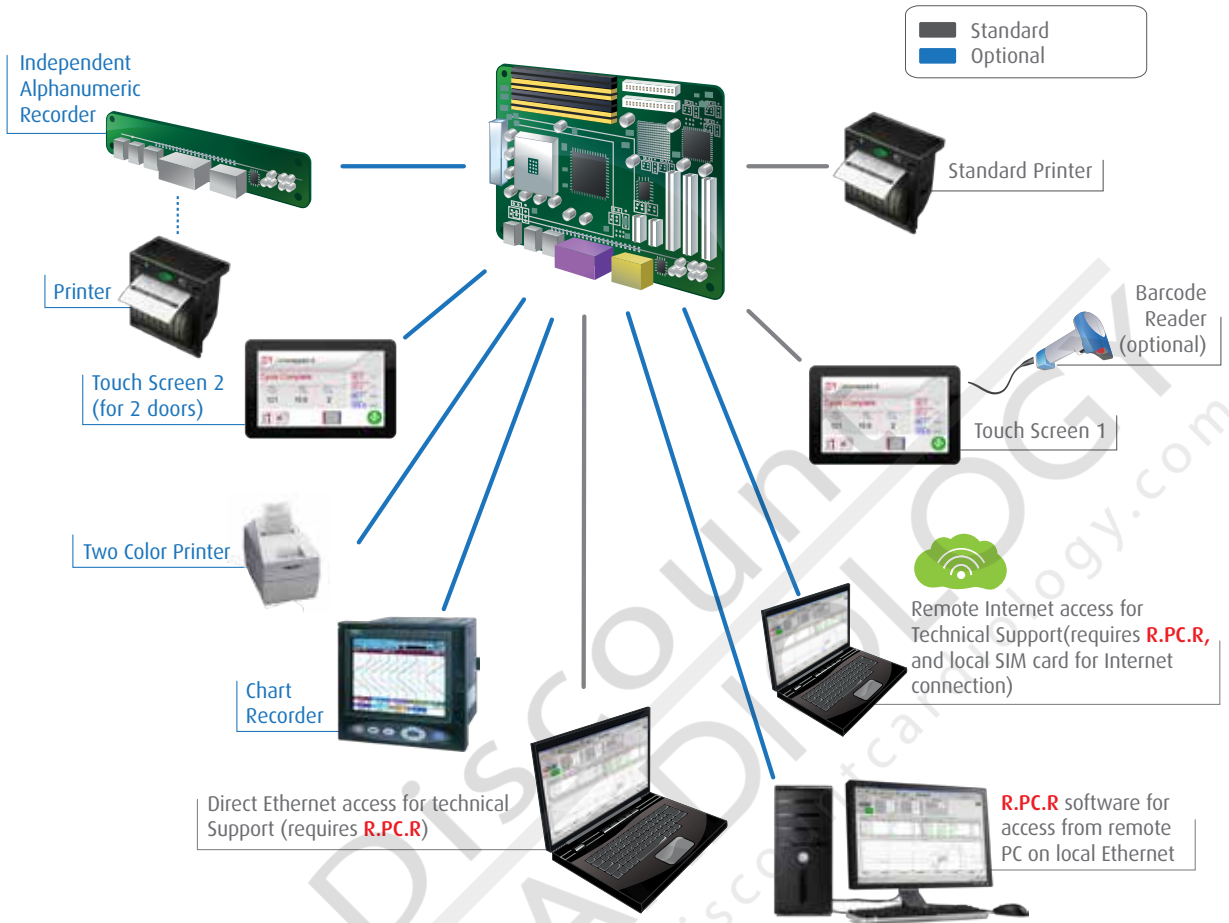
## Sophisticated Touch Screen HMI

The HMI (Human Machine Interface) has been designed with the following considerations:

- Multi-color display for easier reading from a distance
- Multilingual (26 languages)
- Graphical display of Temperature and Pressure trend graphs



## Bacsoft Controller



### R.PC.R Software

Automatic Recording of Cycle Information to Your PC

#### Reporting You Can Rely On

- Automatic recording of cycle information to any PC on your network
- Convenient access to graphs and tables that are easy to understand
- Easily generate PDF reports
- No need to file printouts, saving you time

#### Be in Control with Real-Time Remote Monitoring

- See the real-time autoclave display on your PC
- Monitor all activity for up to 8 autoclaves

**With R.PC.R you can see:** Graphs of the cycle data, Numeric cycle data, cycle print-outs, measured values table, parameter table.

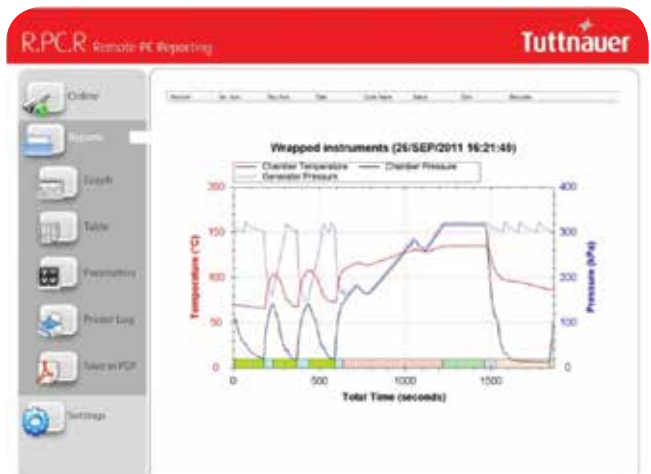
Note:

- R.PC.R is available with Allen Bradley controller but without monitoring feature
- Optional SCADA system is available with Allen-Bradley controller

### Documentation Package

An optional full documentation package is available:

- Installation Qualification (IQ)
- Operation Qualification (OQ)
- Performance Qualification (PQ)



## A Flexible Range of Sizes and Models

Tuttnauer offers an unmatched range of models that are available in three series: Compact, Mid Range and Large Capacity. The chamber sizes range from 120 to 1010 Liters. In addition, we accommodate your special requirements and design tailor made solutions and non-standard chamber sizes. Each model is available with either single or double doors.



## The 44 and 55 Compact Series

Tuttnauer Small Hospital Autoclaves with chamber volumes ranging in 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

Model	Chamber Dimensions (WxHxD) mm	Chamber Volume (Liter)
4472	408x408x730	120
4480	408x408x845	140
4496	408x408x970	160
5596	508x508x970	250
55120	508x508x1210	310



Vertical Sliding Door - Control Panel on Top



Manual Hinged Door



Vertical Sliding Door - Control Panel on Side

## The 66 Mid Range Series

Tuttnauer Medium Hospital Autoclaves with chamber volumes ranging in size from 340 Liters to 760 Liters.

The 66 series is available with two door options:

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

Model	Chamber Dimensions (WxHxD) mm	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 volumes ranging in size from 510 Liters to 1010 Liters.

The 69 series is available with two door options:

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

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



Automatic Hinged Door



Horizontal Sliding Door

# 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 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 Door 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

### Loading Equipment

Our loading equipment assists the loading and unloading process. It is made of high quality, durable stainless steel. We offer three 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 trolley 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 controlled by the autoclave controller.



### Additional Solutions

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

**Advanced sterilization cycles** for special needs such as a low temperature streaming steam cycle, a disinfection program, an F<sub>0</sub> factor or advanced liquid sterilization programs.

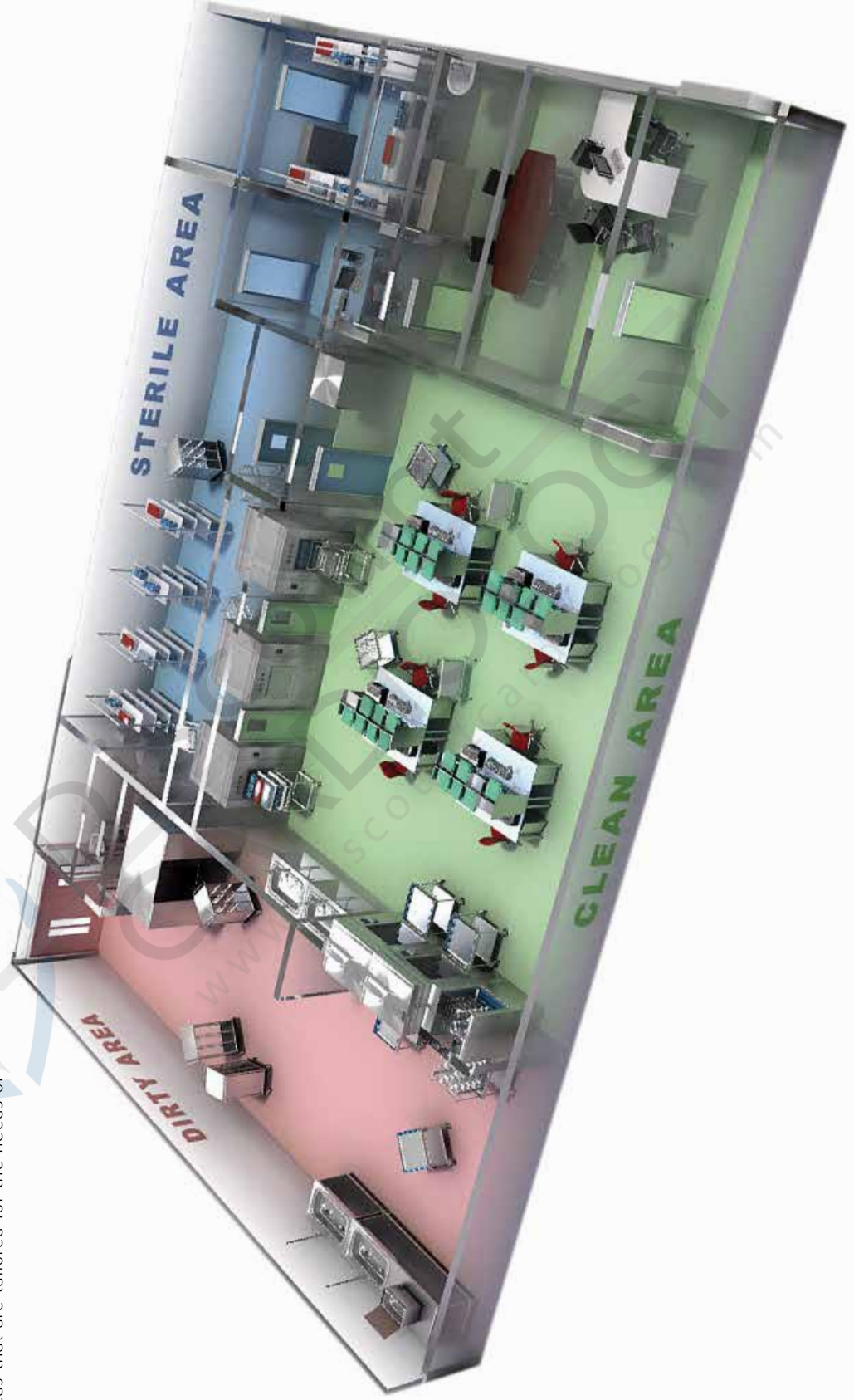
**Advanced operation features** include a multipurpose valve that can function as a backup in case of power failure, or an automatic shutdown or restart feature that economizes on energy.

**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 can provide innovative solutions and space saving ideas that are tailored for the needs of your hospital.



## Complies with the Strictest International Directives and Standards

### Technical Standards and Directives

- Directives: PED 97/23/EEC;
- ASME Code Sec. VIII;
- Safety Standards:
- IEC/UL/EN 61010-1 and 61010-2-040;

### Sterilizers Standards:

- EN285,
- ST-8;
- Sterilization Standard ISO 17665-1
- Quality Management System Standard 9001:2008 and 13485:2003



## Your Sterilization & Infection Control Partners

### Company Profile

For over 88 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 Partnership

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 based on commitment and trust, spanning over decades and distances.

### Our Flexibility is Your Advantage

Beyond our wide range of products and ability to customize products to customer requirements, 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.



## Horizontal Line

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