Tuttnauer

Your Sterilization & Infection Control Partners

Partnership

HSG Pre & Post Vacuum - Medium Size Autoclave

Economic Line

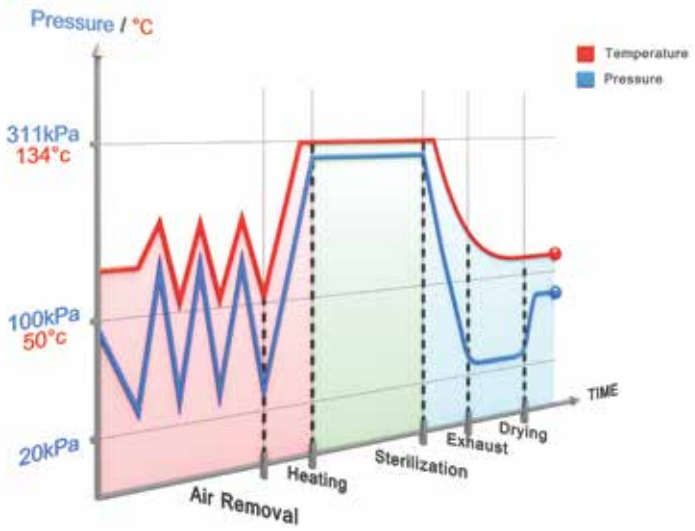
Medical Center Autoclaves

Hospital Grade Performance for OR and Large Clinics

The HSG autoclave line includes 85 liter and 160 liter autoclaves that are ideal for medical centers and large clinics. HSG autoclaves provide hospital grade sterilization and a medium loading capacity at a cost-effective price that meets the highest international standards.

As a family owned business Tuttnauer has manufactured infection control products for over 89 years that have developed a reputation for the quality, high performance, sophisticated features, and the ability to satisfy customers' expectations. Tuttnauer's sterilization and infection control products are trusted at over 350 000 autoclave installations throughout the world.

- COMPACT
- GREEN
- PLUG & PLAY
- EASY TO MOVE - EASY TO INSTALL
- COST-EFFECTIVE PRICING



Pre & Post Vacuum Performance

Pre & Post vacuum performance is achieved with a built-in vacuum pump used for fractionated pre vacuum air removal eliminating air pockets from all load types and maximizing efficient steam penetration throughout the entire load. After the sterilization stage the vacuum pump is used for post-vacuum drying.

COMPACT

Narrow Design - fits through standard doorways

Minimal Footprint - high capacity autoclave which does not require a lot of space

GREEN

Water Saving System – use only 5 liters of water a day (optional - WS model)

Sleep Mode - allows user to set time to switch sterilizer to minimum energy consumption

Low Rate Cycle - you can run your sterilizer when electrical power costs are low, like after work hours, by setting a delayed start time

PLUG & PLAY

Independent Mode - no need to connect the autoclave to the building utilities for distilled water, tap water and drain (optional - WS model)

EASY TO MOVE - EASY TO INSTALL

Mobility – easy to move autoclave to new locations due to built-in swivel wheels

Installation Made Easy – connect to utilities with flexible piping

Adjustable Floor Layout – due to mobility and easy installation medical centers can easily adjust floor layout

COST EFFECTIVE PRICING

Efficient Chamber Design – rounded chamber allows for economic pricing without compromising sterilization performance

Mini CSSD for Operating Rooms

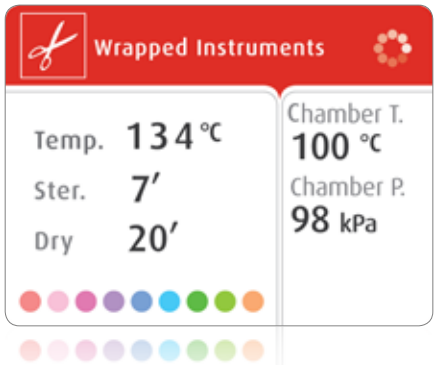
(A) Washer Disinfector, (B) 5075HSG, (C) 3870HSG, (D) Steri-Center Packing Table, (E) Sealing Machine

Innovative Control System

Dynamic Multi-Color Display

A bright multicolor LCD panel for easy reading, even from a distance.

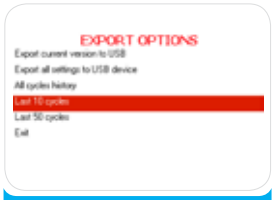
- Wheel rotates to indicate an active cycle
- Time remaining during Water Filling, Sterilization, and Drying stages is updated in real-time
- Multilingual interface (26 languages)



Digital Data on Your PC

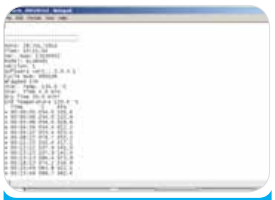
Save cycle data files on your PC with no additional software or specialized hardware

Connect USB memory



Select "Export History"

Connect USB memory to your PC



View Cycle Data Files on Your PC

Build in Printer

Documents detailed history of each cycle

R.PC.R Software

Automatic Recording of Cycle Information to Your PC

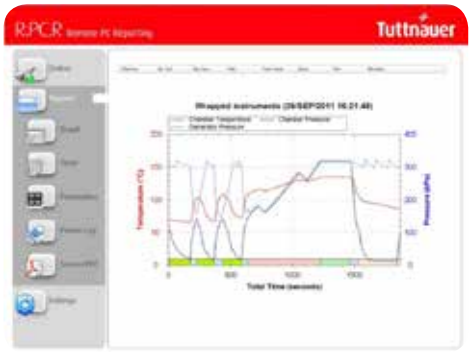
Reporting You Can Rely On

- Automatic cycle data recording to any PC on your network
- Convenient access to graphs & tables
- 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

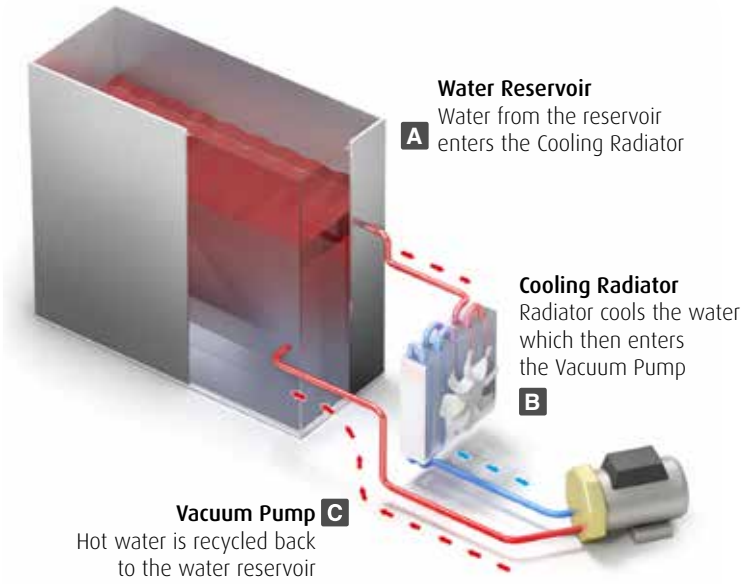
R.PC.R Software is optional.



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

Water Saving System

Huge water savings are achieved with the optional highly efficient water recycling system (HSG-WS model) that consumes only 5 liters of tap water per day.



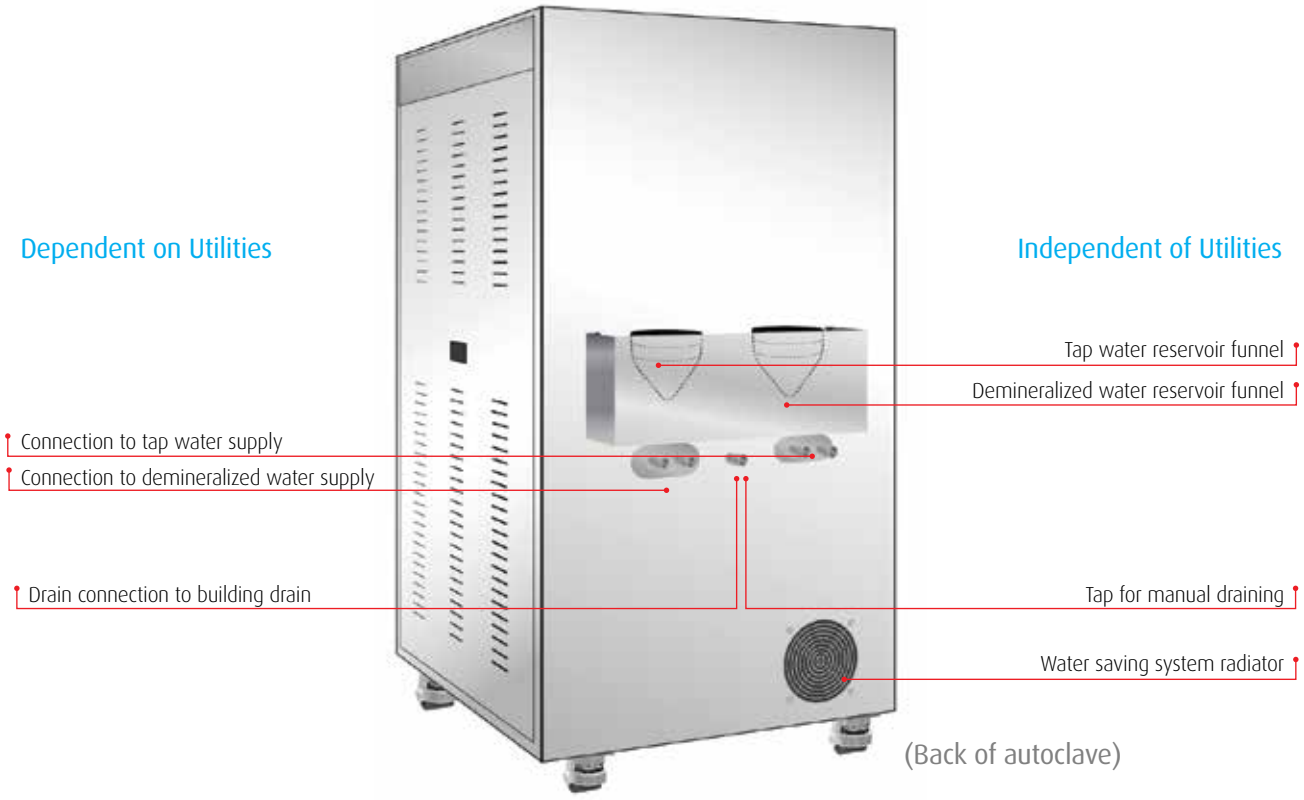
Utility Connection Features

Dependent on Utilities

The HSG can be operated as a stationary sterilizer connected to building utilities for distilled water, tap water, drain and electricity.

Independent of Utilities

The HSG-WS comes with a standard "Plug and Play" option to operate only with an electric power connection. In this mode there is no need to connect the autoclave to the building utilities for distilled water, tap water and drain. With this option it is also possible to connect to utilities.



Safety & Reliable

- Double locking safety device prevents door from opening while chamber is pressurized
- Control lock-out switch prevents starting a cycle if door is not properly locked
- Control system protection prevents door from opening at high pressure and temperature

3870HSG - 85 Liter Chamber

The 3870 HSG is a hospital grade Class B autoclave, suitable for large medical & dental clinics, and operating rooms. Designed to be a fast cycle sterilizer that is mobile, operates 24 hours a day, and can optionally operate independent of building utilities.

- Automatic locking door
- Powerful built-in steam generator
- 316L Chamber & trays

3870HSG Dimensions

* The specification above also applies to the water saving option (HSG-WS)

Technical Specifications

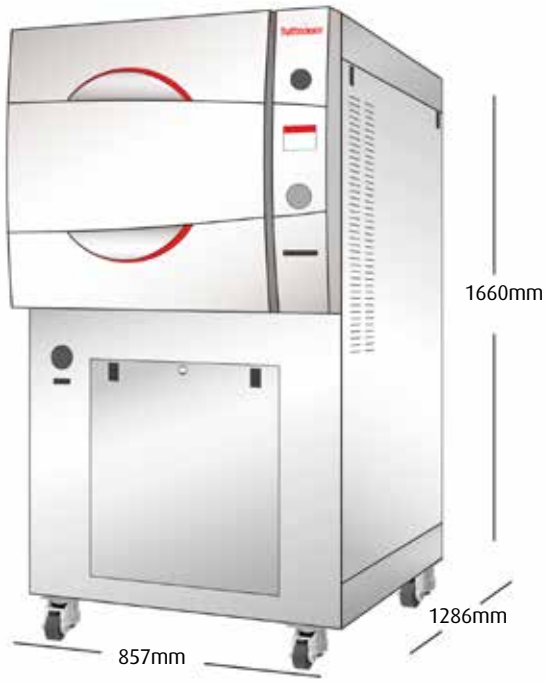
Model	Chamber Dim. ø x L (mm)	Chamber Vol. (Liters)	No. of Trays	Tray Dimensions W x H x D (mm)	Overall Dimensions W x H x D (mm)	Autoclave Weight (kg)
3870 HSG	384 x 758	85L	2	Small: 286 x 25 x 675 Large: 350 x 25 x 675	720 x 1365 x 1180	180 kg
5075 HSG	500 x 750	160L	2	Small: 310 x 21 x 698 Large: 471 x 21 x 698	857 x 1660 x 1286	366 kg

5075HSG - 160 Liter Chamber

The 5075HSG is a fully featured stand-alone mobile pre & post vacuum autoclave. Many years of expertise with industrial sterilization technology have been packaged into the 5075HSG autoclave making it an ideal hospital grade autoclave. The 5075HSG is commonly used for fast cycles in small hospitals, medical centers and other mid-size healthcare facilities which need substantial loading capacity.

• Manual locking door • Powerful built-in steam generator • 316L Chamber & trays

5075HSG Dimensions



Sterilization Cycle Programs

HSG autoclaves include 5 fixed sterilization programs, 2 test programs and 22 customizable sterilization programs.

Program	Load Type	Temp. (°C)	Sterlization Time (min)	Dry Time (min)	Total Time without drying (min) *	
					3870HSG	5075 HSG
Unwrapped 134	Unwrapped instruments	134	4	1	31	24
Wrapped 134	Wrapped instruments	134	7	20	34	37
Unwrapped 121	Unwrapped delicate instruments	121	20	0	33	36
Wrapped 121	Wrapped delicate instruments	121	20	20	46	50
Prion 134	Prion	134	18	20	45	50
Leak Test	No load	-	-	-	24	31
Bowie & Dick Test	PCD	134	3.5	2	12	21

Cycle times are based on: 5kg load for 3870HSG, 8kg load for 5075HSG, and do not include drying. Cycle times based on warm chamber and may change according to load size. **Bowie & Dick Test** is also suitable for Helix test device. **Leak Test** checks that the chamber under vacuum does not leak.

Complies with the Strictest International Directives and Standards

Quality Standards

- ISO 9001:2008 - Quality Management Systems
- EN ISO 13485:2012 Quality Management System – Medical Devices
- In compliance with 21 CFR part 820 & part 11

Directives

- MDD 93/42/EEC amended in Directive 2007/47/EEC
- PED 97/23/EC - Pressure Equipment Directive
- 2002/96/EC WEEE and 2002/95/EC RoHS

Technical Standards

- EN 285: 2006+A2: 2009 Large steam sterilizer
- EN 13060: 2004+A2: 2010 - Small steam sterilizer
- EN 61010-1: 2010 Safety Requirements for measurement control and laboratory use
- EN 61326-1: 2006 Electrical Equipment for EMC requirements
- EN 61010-2-40: 2005 Safety requirements for sterilizers used to treat medical materials
- EN 17665-1: 2006 Sterilization of health care products – moist heat
- ANSI \ AAMI – ST 8: 2008 Hospital steam sterilizers
- ANSI \ AAMI – ST55: 2010 Table Top steam sterilizer
- ASME Code section I and section VIII. Div.I

Electrical Specifications

Model	Voltage (Volts) / Frequency (Hz)	Power (kW)
3870HSG – D 3870HSG – WS 5075HSG – WS	3 ph, 208/230/400/440/480 Volts 1 ph, 230 Volts (requires switch box - optional) 50/60 Hz	9 kW
5075HSG – D	3 ph, 208/230/400/440/480 Volts 1 ph, 230 Volts (requires switch box - optional) 50/60 Hz	18 kW

Your Sterilization & Infection Control Partners

For over 89 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 140 countries, Tuttnauer has earned global recognition as a leader in sterilization and infection control.

Learn from our Experts

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LTR330-0085/ISG/INT/10.14