



## HSG Pre & Post Vacuum - Medium Size Mobile Autoclave

# Fast, Heavy Duty, for Medical Clinics & OR



## Economic Line

The HSG Economic Line includes 85 liter and 160 liter single door autoclaves. The Economic Line is ideal for most medical centers that need hospital grade sterilization and infection control without large autoclaves. Designed to be economical high performance autoclaves that offer substantial loading capacity and mobility in one easy to connect device.

These steam autoclaves operate at high sterility assurance levels while providing the cycle flexibility needed for processing a wide range of products.

Like all other Tuttnauer autoclaves the Economic Line is built to meet the strictest international standards and directives, and has essential safety features.



## Easy to Install, Use, Maintain

Medical centers that need heavy duty medium size autoclaves with high efficiency will find that the Economic Line of autoclaves will meet their needs:

- High throughput around the clock
- Medium capacity chambers
- Minimal utility requirements
- Automatic Door (HSG 3870)
- Small footprint
- Reliable operation
- Cost effective pricing compared to large sterilizers
- Mobility for medical centers that need to adjust floor layout
- Reduced width to fit through standard doorway
- No table required due to built-in carriage on wheels
- 316L grade stainless steel chamber and door with electropolish finish

Mini CSSD for Operating Rooms



A



TIVA600-610

B



5075HSG

C



3870HSG

D



SEALING MACHINE

E



ULTRASONIC 15 LT

F



STERILE STORAGE

## High Speed Cycles

The HSG is a very fast.

- Built-in high volume water-ring vacuum-pump produces a deep vacuum for fast and efficient air removal
- Quick drying due to post vacuum moisture removal
- No waiting between cycles due to stand-by steam which keeps autoclave warm and ready for use

## Dependent on Utilities

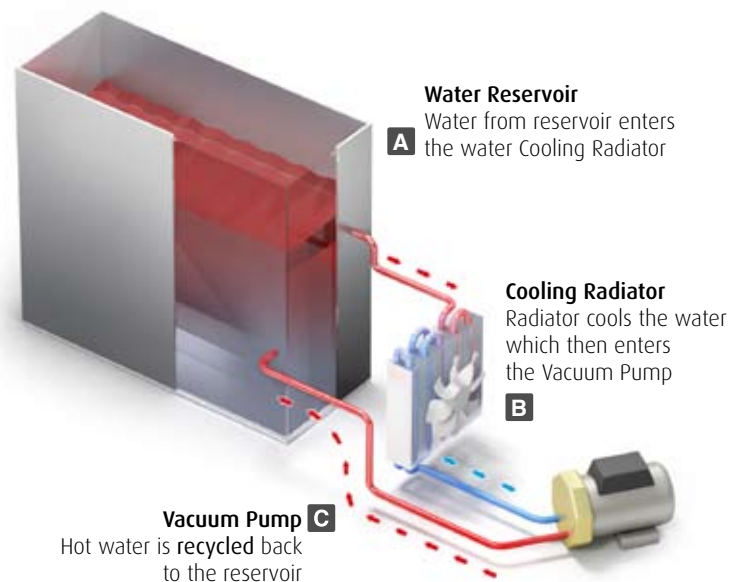
The HSG can be operated as a stationary sterilizer connected to building utilities for distilled water, tap water, drain and electricity.

## 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.

## Water Saving System

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

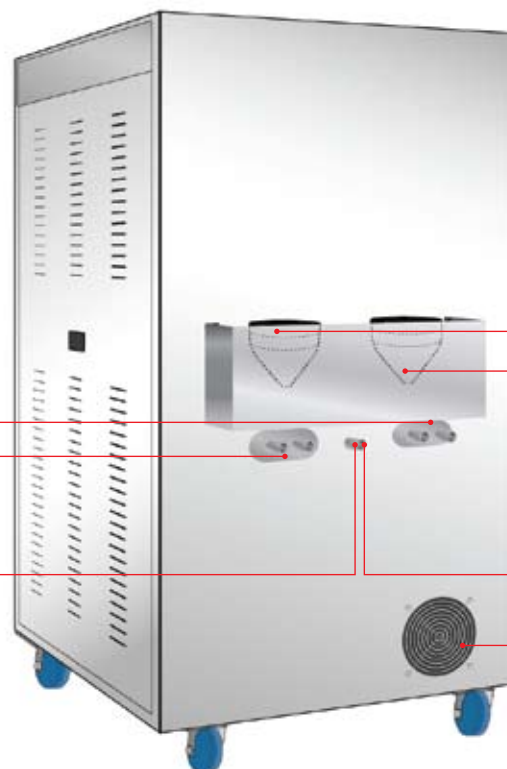


### Dependent on Utilities

- ↑ Connection to tap water supply
- ↑ Connection to demineralized water supply
- ↑ Drain connection to building drain

### Independent of Utilities

- ↑ Tap water reservoir funnel
- ↑ Demineralized water reservoir funnel
- ↑ Tap for manual draining
- ↑ Water saving system radiator



(Back of autoclave)

## 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
- Automatic safety shutoff prevents overheating of the chamber

## Control and Programs

- Pre and Post Vacuum control (optional)
- 5 Fixed cycle programs
- 23 customizable cycle programs
- 2 Test cycle programs (B&D Test and Leak Test)
- Multi-color display for easier reading
- Quick access to important information
- Multiple languages
- Built-in view of the last 200 cycles that can be downloaded via USB device



## Connection Types for Accessories



USB port for external memory devices



Barcode via USB (optional)



RS-232 connected to printer



Ethernet communication port

## R.P.C.R (Remote PC Reporting)

PC software for generating reports (optional)

### Available View of Reports and Graphs:

- Graph of the cycle data
- Numeric data of the cycle
- Copy of cycle print-outs
- Table of all measured values
- Table of all parameters
- Option to save all reports in pdf file format

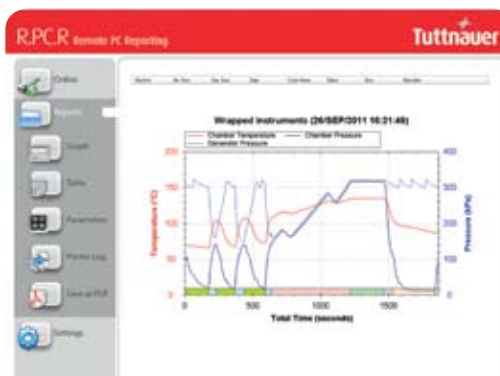
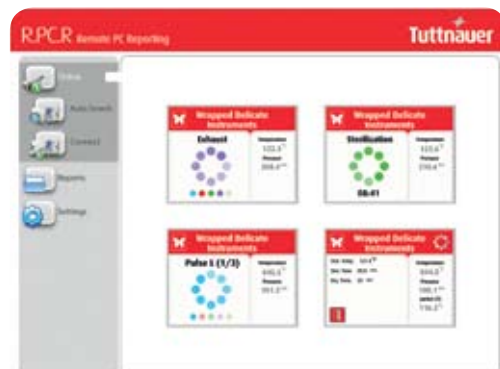
The software allows 2 modes of operation:

### Online mode

Up to 8 autoclaves may be accessed using a PC within the organization via an Ethernet connection. These autoclaves can each be remotely monitored at the same time showing all reports and graphs. Cycle data files of completed cycles are automatically downloaded from the autoclave.

### Offline mode

Data is transferred from the autoclave using a standard USB memory device. This data can then be viewed with the report generator software on a PC.



## 3870 HSG

The 3870 HSG is an 85 liter hospital grade Class B autoclave, suitable for dental and medical centers, and operating rooms. It is designed to be a fast cycle sterilizer that is mobile, operates 24 hours a day, and can optionally operate independent of building utilities.

- 85 Liter chamber
- Automatic locking door
- 9kW Built-in steam generator



3870HSG Dimensions



## 5075 HSG

The 5075HSG is a fully featured 160 liter stand-alone mobile pre & post vacuum autoclave. Many years of expertise with industrial sterilization technology have been packaged into the 5075 autoclave making it an ideal hospital grade autoclave. The 5075 is ideal for most applications and is commonly used for fast cycles in operating rooms, outpatient clinics, plastic surgeries and other regional and mid-size healthcare facilities.

- 160 Liter chamber
- Manual locking door
- 18kW Built-in steam generator

### 5075HSG Dimensions



## HSG Cycle Programs

The 5075 and 3870 autoclave comes with 5 fixed sterilization programs, 2 test programs and 23 customizable sterilization programs.

Program	Load Type	Temp. (°C)	Sterilization Time (min)	Dry Time (min)
Unwrapped 134	Unwrapped instruments	134	4	1
Wrapped 134	Wrapped instruments	134	4	20
Double Wrapped 134	Wrapped pouches, cassettes, etc.	134	7	30
Unwrapped 121	Unwrapped delicate instruments	121	20	0
Wrapped 121	Wrapped delicate instruments	121	20	20
Bowie & Dick Test	PCD	134	3.5	2
Leak Test	No load	-	-	-

\* A wide range of additional program cycles can be customized to satisfy special needs and a variety of load types.

## Complies with the Strictest International Directives and Standards

### Technical Standards and Directives

- MDD 93/42 EEC as amended by 2007/47; PED 97/23 EEC; WEE & RoHS Directives – 2002/95, 96
- EN 61010-1:2001, EN 61010-2-040:2005 – Safety of Autoclaves
- EN 13060:2004, EN285:2006 and AAMI/ANSI ST55 - Steam Autoclaves
- ST8 - Hospital Autoclaves
- EM 61326 EMC Requirement
- ASME Code, Section VIII for Pressure Vessels

### Quality Standard

Tuttנauer manufacturing plant meets the following quality standards:

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

Specifications	3870HSG (built-in generator)	5075HSG (built-in generator)
Chamber Dimensions Ø x L (mm)	384 x 758	500 x 750
Chamber Volume (Liters)	85L	160L
No. of Trays	2	2
Tray Dimensions W x H x D (mm)	Small: 286 x 25 x 675 Large: 350 x 25 x 675	Small: 310 x 21 x 698 Large: 471 x 21 x 698
Voltage (V) Frequency (Hz)	3 ph, 208/230/380/440/480 V 50/60 Hz	3 ph, 208/230/380/440/480 V 50/60 Hz
Overall Dimensions W x H x D (mm)	720 x 1365 x 1180	857 x 1660 x 1286
Power (kW)	9 kW	18 kW
Autoclave Weight (kg)	180 kg	366 kg

## Your Sterilization & Infection Control Partners

For over 85 years, Tuttנauer'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, Tuttנauer has earned global recognition as a leader in sterilization and infection control.



### Economic Line

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