



Economic Line

HSG Pre & Post Vacuum Autoclaves

Fast, Heavy Duty, Autoclave

The Economic Line is ideal for most medical centers that need hospital grade sterilization and infection control without large costly autoclaves. Designed to be economical high performance hard working 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.

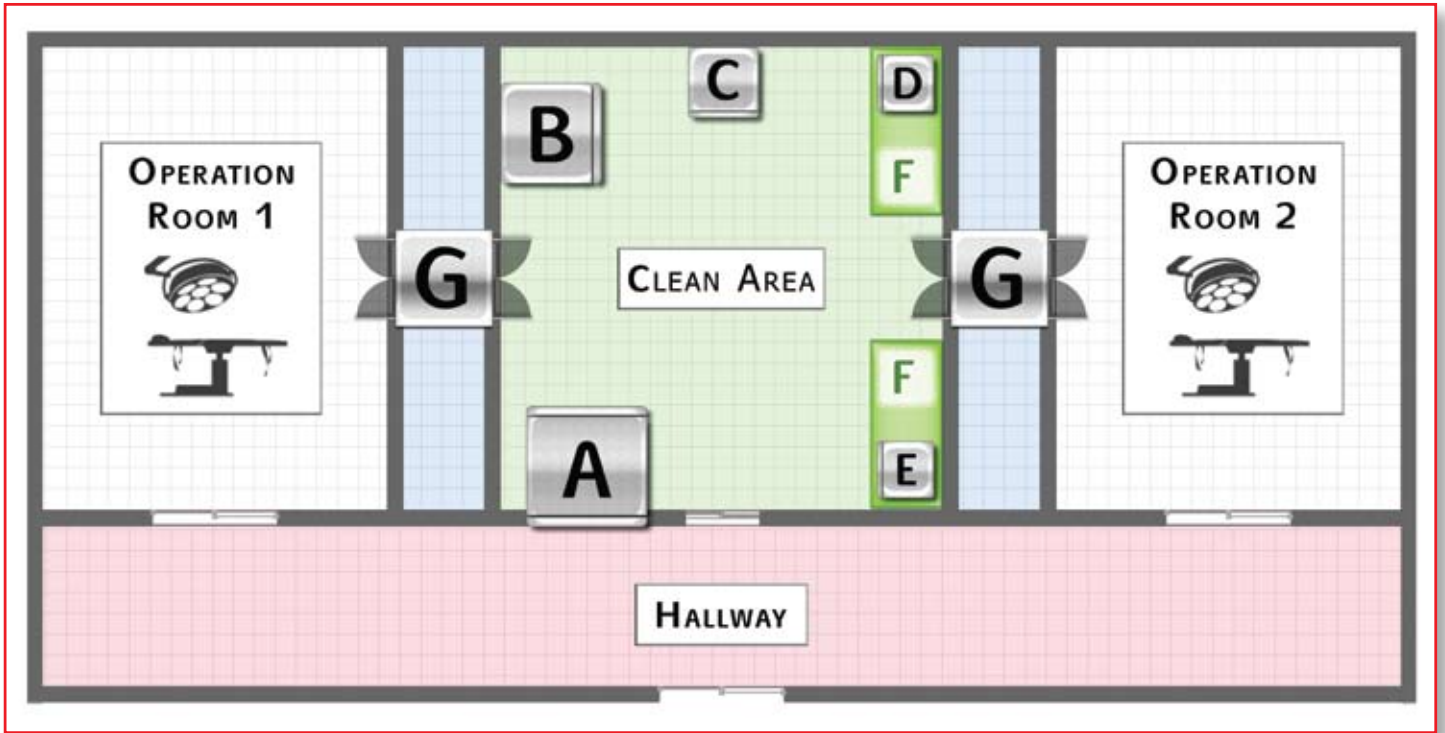
Like all other Tuttnauer autoclaves the Economic Series is built to meet the strictest international standards and directives, as well as incorporating a number of essential safety features.



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
- Small footprint
- Reliable operation
- Cost effective pricing compared to large sterilizers
- Mobility for medical centers that need to adjust floor layout



A TIVA600/610



B 5075HSG



C 3870HSG



D SEALING MACHINE



E ULTRASONIC 15 LITER



G STERILE STORAGE



F SINK & PACKING TABLE

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 portable, operates 24 hours a day, and can optionally operate independent of building utilities.

General Features

- Built-in high volume water-ring vacuum-pump produces a deep vacuum for fast and efficient air removal
- No table required due to built-in carriage on wheels
- No waiting between cycles due to stand-by steam available from built-in 9 kW steam sterilizer
- High grade 316L grade stainless steel chamber and door with electro-polish finish
- Easy access for service and maintenance of all parts of the autoclave
- RS 232 PC Connection Port for direct software updates and remote maintenance

Safety Features

- 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



Dual-Mode Operation

Independent of Utilities

The 3870 HSG 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.

Dependent on Utilities

The 3870 HSG can be operated as a stationary sterilizer connected to building utilities for distilled and tap water supply, drain and electricity.

High Speed Cycles

The HSG is a very fast sterilizer due to stand-by steam and quick drying. Steam is available immediately from a strong built-in 9 kW steam generator. Quick drying is achieved by post vacuum steam removal with a powerful water-ring vacuum-pump.

Huge Water Saving

The 3870 HSG can use an optional highly efficient water recycling system consuming only 5 liters of tap water a day. An equivalent machine uses 80 to 100 liters per cycle.

Monitoring and Control

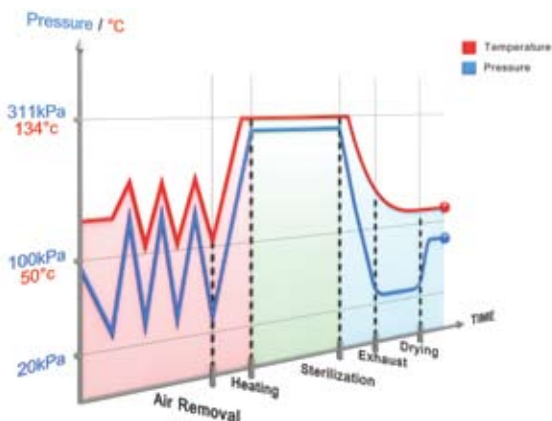
The HSG features a user-friendly, microprocessor control system that allows for enhanced monitoring providing the control and flexibility you need.

- High precision control system for perfect sterilization results
- Ability to customize cycle parameters and maximize flexibility
- Password protection provides secure access



Alert Messages and Alarms

- Independent temperature and pressure monitoring
- Cycle information recovery in the case of power failure or cycle interruption
- Fail Alert – Indicates cycle failure or interruption
- Door Alert – Indicates that the door is unlocked



Pre-Programmed Sterilization Cycles

Name	Load Type	Temp. (°C)	Average Cycle Time (minutes)	
			Solid Load	Textile
1-Fast 134	Unwrapped instruments for immediate use	134	22	N/A
2-W.dry 121	Unwrapped instruments for immediate use	121	52	N/A
3-W.dry 134	Wrapped instruments and porous loads	134	43	71
4-Slow 121	Wrapped instruments and porous loads	121	Slow	Slow
5-W.dry 134	Wrapped instruments and porous loads	134	64	84

Cycle times include air removal, heat up time, sterilization exposure, exhaust and drying. Model 3870 tested with 6 kg solid load/textile. Programs 3 and 4 include a 20 minute drying time and Program 5 includes a 30 minute drying time. All cycle times may vary with instrument load and supplied voltage.

5075HSG and 5075HS

The 5075HSG and 5075HS are fully featured 160 liter stand-alone pre & post vacuum autoclaves. Many years of expertise with industrial sterilization technology have been packaged into the 5075 autoclave models to make them ideal hospital grade autoclaves.

Both the 5075HSG and the 5075HS are mobile floor standing autoclaves. They are as simple and easy to use as any Tuttinauer tabletop autoclave.

The 5075HSG comes with a built-in 18 kW stainless steel electrical steam generator for fast sterilization cycles. The 5075HS has a connection port for building steam supply.

The 5075 autoclave 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.

The 5075 autoclave chamber is surrounded by a coiled jacket that increases overall cycle speed and performance by maintaining chamber warmth when in stand-by mode. The coiled jacket also ensures uniform heat distribution throughout the chamber. The system also provides a deep and powerful vacuum due to a high volume water-ring vacuum pump for reliable and complete air removal.

The 5075HS provides all the features and reliability of a hospital grade autoclave at a high throughput and a considerably low cost.



Features

- Load capacity of 160 liters at minimal foot-print
- High volume water-ring vacuum-pump for fast and efficient air removal
- Stand-by heating mode keeps the autoclave warm and ready for use
- 316L grade stainless steel chamber and door with electro-polish finish
- Double locking safety device prevents door from opening at high pressure and high temperature
- Control lock-out switch prevents starting a cycle if door is not properly locked
- Built-in alpha-numeric printer
- Mounted on wheels for easy mobility and sterilization on demand

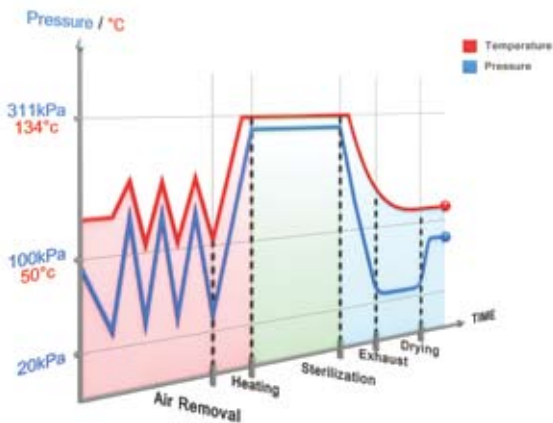
Documentation

The 5075HS is delivered with a built-in printer, to document the performed cycle, in addition to a comprehensive LCD display.

Monitoring and Control

The 5075 autoclave features a user-friendly, microprocessor control system which offers enhanced monitoring and control.

- High precision control system for perfect sterilization results
- Ability to customize cycle parameters and maximize flexibility
- Password protection provides secure access
- Independent temperature and pressure monitoring
- Cycle information recovery in the case of power failure or cycle interruption
- Fail Alert – Indicates cycle failure or interruption
- Door Alert – Indicates that the door is unlocked
- RS 232 PC Connection Port for direct software updates and remote maintenance



The 5075 autoclave comes with 5 pre-programmed sterilization cycles and 2 test cycles

Name	Load Type	Temp. (°C)	Average Cycle Time (minutes)	
			Solid Load	Textile
1-Fast 134	Unwrapped instruments for immediate use	134	18	-
2-Fast 121	Unwrapped instruments for immediate use	121	55	68
3-W.dry 134	Wrapped instruments and porous loads	134	50	63
4-W.dry 121	Wrapped instruments and porous loads	121	slow	slow
5-W.dry 134	Wrapped instruments and porous loads	134	71	84

Cycle times include air removal, heat up time, sterilization exposure, exhaust and drying. Model 5075 tested at full load for solid and textile loads. All cycle times may vary with instrument load and supplied voltage.

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; 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
- EN 13445 an EN 14222
- ASME Code, Section VIII for Pressure Vessels

Quality Standard

Tuttnauer 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)	5075HS (requires building steam supply)	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: 675 x 25 x 286 Large: 675 x 25 x 350	Small: 471 x 21 x 623 Large: 301 x 21 x 623	
Voltage (V) Frequency (Hz)	3 ph, 208/230/380/440/480 V 50/60 Hz	1 ph, 230 V 50/60 Hz	3 ph, 208/230/380/440/480 V 50/60 Hz
Power (kW)	9 kW	2.3 kW	18 kW
Overall Dimensions W x H x D (mm)	700 x 1365 x 1180	960 x 1685 x 1150	
Autoclave Weight (Kg)	180 Kg	425 Kg	

Your Sterilization & Infection Control Partners

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.

International Sales and Marketing
E-mail: info@tuttnauer-hq.com
www.tuttnauer.com

Tuttnauer Europe b.v.
Paardeweide 36, 4824 EH,
P.O.B. 7191, 4800 GD Breda
The Netherlands
Tel: +31 (0) 765 423 510 Fax: +31 (0) 765 423 540
E-mail: info@tuttnauer.nl

Tuttnauer USA Co.
25 Power Drive,
Hauppauge, NY 11788
Tel: +800 624 5836, +631 737 4850 Fax: +631 737 0720
E-mail: info@tuttnauer.com


Tuttnauer
Your Sterilization & Infection Control Partners

Distributed by:

HECO Laboratoriestyr AS
Lilleakerveien 31
0283 OSLO

+47 24 12 59 59
heco@heco.no