

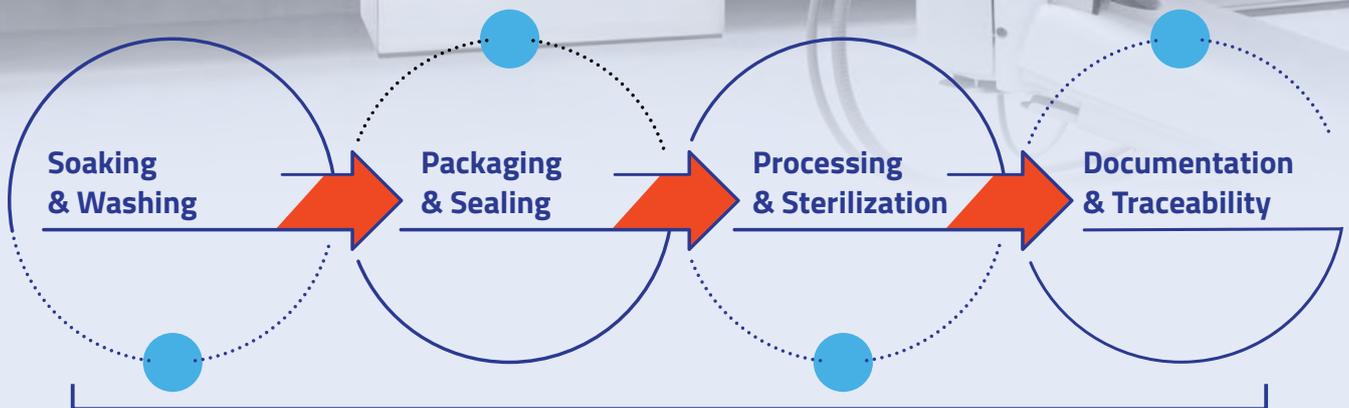


Instrument Reprocessing Solutions

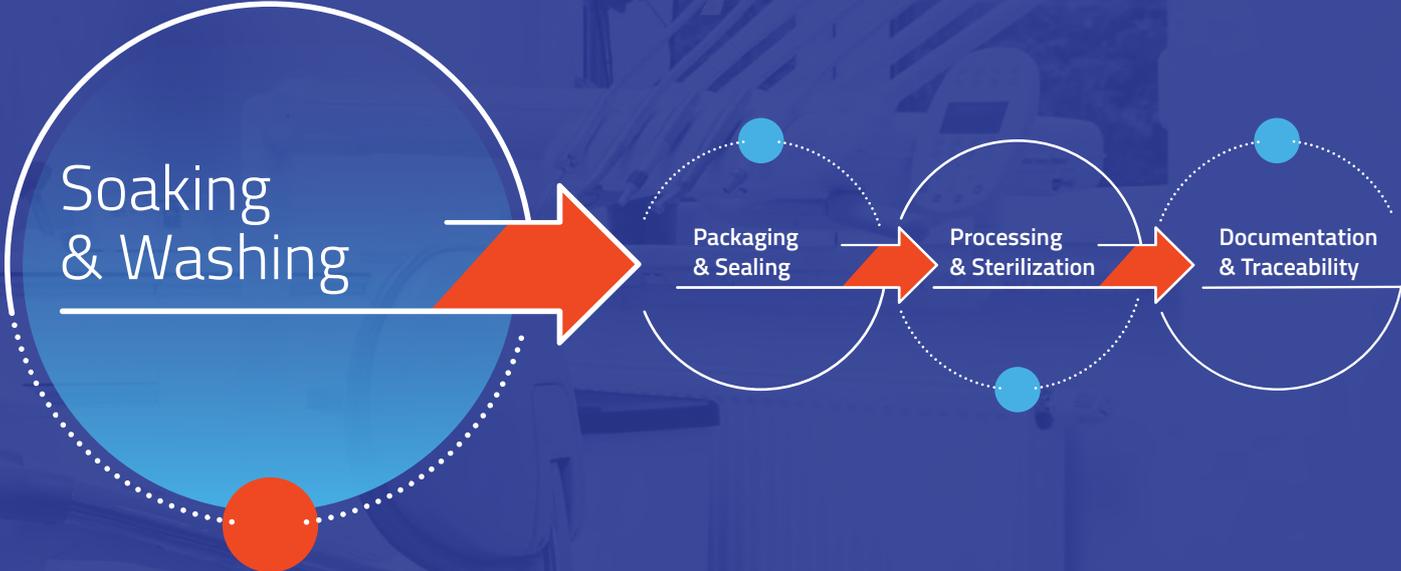
Quality Products ◆ Professional Excellence ◆ Reliable Services ◆ Time Saving Solutions

Complete Infection Control Solutions

Guiding you throughout the entire process of instrument preparation.



Infection Control Reprocessing



Ultrasonic Cleaners

Effective cleaning to remove hard deposits

Ultrasonic cleaning is a safe, efficient and modern procedure which ensures perfect cleaning. It can remove even the most tenacious deposits, in the shortest time possible. Ultrasonic cleaning greatly reduces the risk of cross-contamination and infection that can occur with manual cleaning.

- ◆ **Effective cleaning to remove hard deposits**
- ◆ **Faster, better and damage free cleaning**
- ◆ **Simple and easy-to-read controls**
- ◆ **Low noise levels**
- ◆ **High power ultrasound generators**
- ◆ **Wide choice of models with 3 to 90 liters capacity**
- ◆ **Heating temperature and cleaning time control by microprocessor**



Model	2200ETH	3200ETH	3300ETH	4200ETH	4300ETH	5200ETH	5300ETH	45L EP	60L EP	90L EP
Voltage	230/240V, 50Hz							230/240V, 50-60Hz		
Power (with Heating)	305W	355W	500W	800W	800W	1400W	1500W	1600W	2200W	3000W
Weight (kg)	2.8	3.5	6.3	7.1	7.5	14.5	15.3	21	30	40
Ext. Dim. WxDxH (mm)	270 170 210	325 270 210	400 270 370	440 340 425	440 340 425	600 330 425	600 330 425	600 340 525	1,160 360 425	660 560 525
Volume (L)	3	6	9.5	14	18	21	28	45	60	90
Tank Dim. WxDxH (mm)	240 140 100	300 240 100	300 240 150	330 300 150	330 300 200	500 300 150	500 300 200	500 300 300	1,100 300 200	600 500 300
Transducers No.	2	4	3	4	4	6	8	11	14	20
Ambient conditions	Temperature from 5°C to 40°C, rel. hum. 80% up to 31°C with linear decrease up to 50% at 40°C.									
Installation category	Class II according to EN 61010									



Cleaning Materials

Our cleaning materials are the best method to maintain your ultrasonic device free of hard water, lime and iron deposits. Cleaning practices provide:

- ◆ An accurate understanding of your cleaning performance.
- ◆ Other contaminants in the process.

The substances that build up on the chamber walls of the ultrasonic device can gather and cause discoloration, hinder performance, and even contaminate sterilized packs.

Model	Catalog No.	Description	Quantity	Additional info	Item Supplied
Tablets	CLE096-0032	Clean & Simple, Cleaning Tablets (1 Box)	64 Tablets / Box	Suitable for Ultrasonic	
Detergents	WSH238-0015	T-CLEAN NOSOPROTECT Disinfectant (5L) Highly concentrated mycobactericidal surgical instrument disinfectant	5 Liter	Suitable for Ultrasonic	

TIVA2 Dental 65 Liter Chamber

Powerful, Reliable and Customizable

Tiva 2 instrument washers provide a flexible turnkey solution for washing, disinfecting and drying various dental instruments, for a complete decontamination cycle. Tiva 2 is available in above counter or under counter versions, and minimizes consumption and operating costs.

- ◆ **Manual glass door**
- ◆ **316L high quality AISI washing chamber**
- ◆ **Diverse load types**
- ◆ **Touch panel with color graphic display and a total of 40 programs**
- ◆ **Includes: Air prefilter + HEPA H14 filter, 3 heating elements, built-in steam condenser**
- ◆ **Preheated tank to reduce the cycle time**
- ◆ **Compact & Ergonomic**
- ◆ **Internal detergent tank 0.6L – Tiva 2/5L – Tiva2-H**
- ◆ **Integrated water softener and one standard dosing pump with flowmeter up to 2 (TIVA2) and up to 3 (TIVA2-H)**

TIVA2-H
Under Counter Washer

TIVA2
Above Counter Washer



Model	Chamber Dim. WxHxD (mm)	Chamber Vol. (Liters)	Capacity	Overall Dimensions WxHxD (mm)	Weight (kg)	Power Supply	Power Consumption	Supplied with
TIVA2	428x370x415	65 liter	With hand-pieces: Up to 8 small or medium cassettes or up to 3 large cassettes	595x600x540	65	230V, 1 ph, 50Hz 200V, 1 ph, 50/60Hz 380/415V, 3 ph+N, 50Hz	2,9 kW	Drain tube, water supply pipes, standard basket
TIVA2-H			Without hand-pieces: Up to 16 small or medium cassettes or up to 6 large cassettes	595x818x540	75	208/240V, 1 ph, 60Hz 220V, 3 ph, 60Hz	2,9 kW	



Main Baskets and Input Configurations

Capacity for washing cycle:

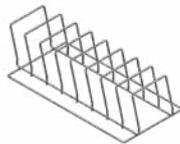
With handpieces - up to 8 small or medium cassettes or up to 3 large cassettes.

Without handpieces - up to 16 small or medium cassettes or up to 6 large cassettes.

TIVA2 and TIVA2-H



Standard Basket
for all TIVA2
Cod. ATS238-0375



Insert for 8 Trays
or 8 Cassettes
for all TIVA2
Cod. ATS238-0376



Insert for Vertical
Instruments
for all TIVA2
Cod. ATS238-0377



Washing Basket + Holder
For 8 Handpieces
for all TIVA2
Cod. ATS238-0324

Example of Basket Configurations



*For complete list of available racks and accessories, please see TIVA product catalogue.

TIVA8 Dental 165 Liter Chamber

Designed to safely simplify your work, and deliver improved productivity and efficiency

High-end washer and disinfector for washing, rinsing, disinfecting, and drying your dental instruments prior to sterilization. Up to 4 washing levels for a total 8 DIN basket capacity.

- ◆ **3 Heating elements**
- ◆ **USB/ Printer for data documentation**
- ◆ **Built-in steam condenser**
- ◆ **Manual double glass door**
- ◆ **Washing chamber made of high quality AISI 316L**
- ◆ **Touch panel with color graphic display**
- ◆ **A total of 40 programs: Preset and programmable procedures**
- ◆ **Air drying prefilter + HEPA H14 filter**
- ◆ **2 Standard dosing pumps with flowmeter up to 3 & 4 dosing pumps capability for acid and alkaline & integrated water softener**

TIVA8-1M

Narrow Design 165 Liter chamber

Dimensions (WxDxH mm) 600x650x860

TIVA8-WD-1M / TIVA8-HS-1M

Wide design 165 Liter Chamber

Dimensions (WxDxH mm) 900x650x860



Selectable configurations:
Detergent storage cabinet /
Pre-heating tank for reduction of
cycle time + Detergent cabinet and
demineralized water connection

Model	Chamber Dim. WxHxD (mm)	Chamber Vol. (Liters)	Capacity	Overall Dimensions WxHxD (mm)	Weight (kg)	Power Supply	Power Consumption	Supplied with
TIVA 8 -1M	550x600x500	165 liter	Up to 4 washing levels (8 DIN baskets)	600x845X650	100	380/415V, 3 ph+N, 50Hz 380/415V, 3 ph+N, 60Hz 200/240V, 3 ph, 50Hz 200/240V, 3 ph, 60Hz	6.3 kW	Drain tube, Water supply pipes
TIVA 8-WD-1M TIVA 8-HS-1M				900x845X650	115 120	200/210V, 3 ph, 50/60Hz * 200/240V, 1 ph+N, 50Hz * 200/240V, 1 ph+N, 60Hz *	6.3 kW 7 kW	Drain tube, Water supply pipes
						* not for HS models		



Main Baskets and Input Configurations

TIVA8-1M



Th148 Lower Wash Rack
Cod. Ats-119905148



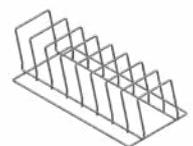
Th149 Upper Wash Rack 2
Conn. and Spray Arm
Cod. Ats-119905149



A085 1/3 Basket
Cod. Ats-D00594900



A053 Insert for Vertical
Instruments
Cod. Ats-D00552800



A063 Insert 8 Cassettes
with width Max 35 mm
Cod. Ats238-0376

Example of Basket Configurations



*For complete list of available racks and accessories, please see TIVA product catalogue.

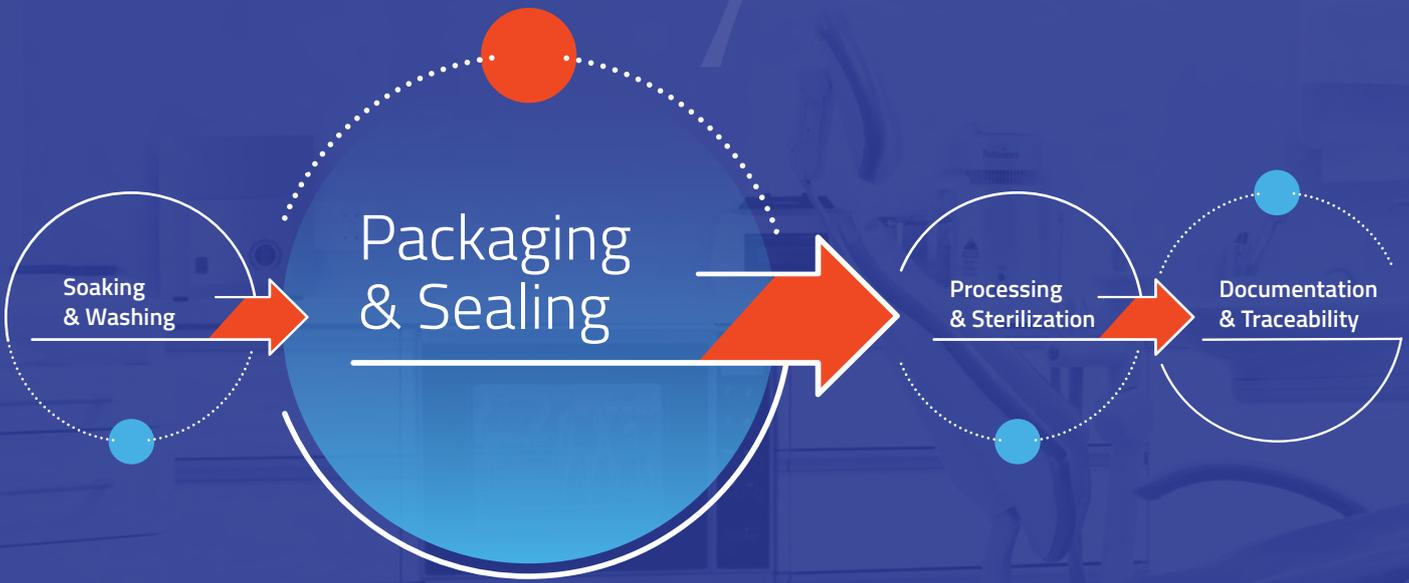
High Disinfection Washer Consumables

Detergents

Our goal is to provide our customers with the best cleaning and disinfection results. The new formulations of our cleaners and disinfectants comply with the latest guidelines and regulation.

Catalog No.	Description	Image
WSH238-0014 (5 Liter)	T-CLEAN A (5L) Alkaline detergent for the automated reprocessing of surgical instruments and equipment	
WSH238-0019 (1 Liter)		
WSH238-0012 (5 Liter)	T-CLEAN N (5L) Acidic Deposit Neutralizer & Instrument Renovator	
WSH238-0017 (1 Liter)		
WSH238-0011 (5 Liter)	T-CLEAN R (5L) Rinse aid for the automated reprocessing of surgical instruments and equipment	
WSH238-0016 (1 Liter)		
WSH238-0013 (5 Liter)	T-CLEAN E (5L) Enzymatic cleaner for endoscopes and surgical instruments	
WSH238-0018 (1 Liter)		
WSH238-0022 (5 Liter)	T-CLEAN E 6 PLUS (5L) Multi-enzymatic cleaner for surgical instruments and endoscopes	
WSH238-0021 (1 Liter)		

Item	Catalog No.	Description	Packaging	Image
Cleaning Indicators	WTL198-0061	Operating at frequencies equal to or greater than 35 kHz, and temperatures between 30 °C and 70 °C. Challenge level: high.	200 / bag	
	WTL198-0062	Operating at frequencies equal to or greater than 35 kHz, and temperatures between 30 °C and 70 °C. Challenge level: Very high.	200 / bag	
	WTL198-0063	Thermodisinfection and Cleaning Indicator for routine control of thermal disinfection processes. Designed for monitoring moist heat disinfection processes in washer-disinfectors.	200 / bag	
Accessories	WTL198-0065	Cleaning indicators holder, used for cleaning process routine control and monitoring automatic washing machine effectiveness as well as monitoring ultrasonic washers.	1 unit / box	



Soaking
& Washing

Packaging
& Sealing

Processing
& Sterilization

Documentation
& Traceability

Sealer for Dental Packaging

Simple to seal all of your packed instruments

Microprocessor-controlled rotary sealer for dental packaging. The validatable 850 DC-V rotary sealer is used for the automatic closing of sealable pouches and reels (Sterile Barrier Systems SBS) for the dental clinical industry.

- ◆ **Fast and reliable impulse sealers**
- ◆ **Complies with the strictest standards (DIN 58953-7)**



Cod. 850 DC-V

TECHNICAL DATA	
Type of device	Rotary sealer
Sealing system	SealPeak (hawoflex)
Sealing distance from edge	0 - 35 mm / 0 - 1.4 inch
Seal seam width	12 mm / 0.5 inch
Distance to medical product (DIN 58953-7)	> 30 mm / > 1.2 inch
Mains connection	100 - 240 V, 50/60 Hz
Power	400 W
Dimensions W x D x H	710 x 260 x 240 mm / 30 x 10.2 x 9.4 inch
Weight	22 kg / 48.5 lbs
Casing	Stainless steel AISI 304
Integrated Printer	✓



Impulse Sealing for Packaging Pouches and Reels

The impulse sealers is the most economical bar sealers for the packaging of sealable pouches and reels as well as thermoplastic film. Thanks to the adjustable sealing timer the devices can be easily adapted to the material. They are ideally suited for use of smaller medical clinics



TECHNICAL DATA	hd 260 MS	hd 270 MS	hd 470 MS
Electrical supply voltage	115/230 V	115/230 V	115/230 V
Electrical supply frequency	50/60 Hz	50/60 Hz	50/60 Hz
Power consumption max. (only during sealing process)	870 VA	870 VA	870 VA
Dimensions W x D x H	400 x 310 x 220 mm (15.7 x 12.2 x 8.7 inch)	400 x 310 x 220 mm (15.7 x 12.2 x 8.7 inch)	400 x 310 x 220 mm (15.7 x 12.2 x 8.7 inch)
Stainless steel AISI 304 casing cover	✓	✓	✓
Weight	8.5 kg (18.7 lbs.)	8.5 kg (18.7 lbs.)	11 kg (24.2 lbs.)
Impulse sealing system	✓	✓	✓
Sealing seam width	8 mm (0.3 inch)	8 mm (0.3 inch)	8 mm (0.3 inch)
Sealing seam length	250 mm (9.8 inch)	250 mm (9.8 inch)	450 mm (17.1 inch)
Integrated roll holder	✓	✓	✓
Integrated cutting device	✓	✓	✓
Cutting width	250 mm (9.8 inch)	250 mm (9.8 inch)	450 mm (17.7 inch)
Microprocessor control	✓	✓	✓
Display		7-segment-display	7-segment-display
Piece counter		✓	✓

Sealer for Dental Packaging

Validatable Rotary Sealer with Touch Screen

Packaging of Sealable Pouches and Reels

High-end heat sealer surpasses, offering smart operation, comprehensive digitization, networkability and sustainability. Meet the highest standards of professionalism, aesthetics and solidity, for clinics and medical offices.



950 DC-V

TECHNICAL DATA	
Type of device	Rotary sealer
Validatable process	✓
Microprocessor controlled	✓
Display	4.3" TFT graphic colour
Input keyboard	touchscreen (external keyboard / mouse optional)
Printout3	hm 950 DC-V: 9-dot matrix, single lined hm 950 DC-VI: 24-dot matrix, single lined, for special characters
RS 232 connection	✓
USB A connection	x (4x)
Ethernet connection	✓
Connection for label printer	✓
NEW: HDMI connection	✓
Sealing speed (dwell)	5 - 13 m/min (197 - 512 inch/min) (monitored)
Sealing temperature	max. 210 °C (410 °F) (monitored)
Contact pressure	80 - 120 N (monitored)
Switch-off tolerance +/- 5 °C (DIN 58953-7)	✓
Seal distance from the material edge	0 - 35 mm (0 - 1.4 inch)
Seal seam width	12 mm (0.5 inch)
Sealing system SealPeak (hawofl ex)	SealPeak (Hawoflex)
Mains connection	100 - 240 V, 50/60 Hz
Power consumption	90 Watts
Dimensions W x D x H	565 x 260 x 145 mm (22.2 x 10.2 x 5.7 inch)
Weight	16 kg (35 lb)



Sterilization Reels and Pouches

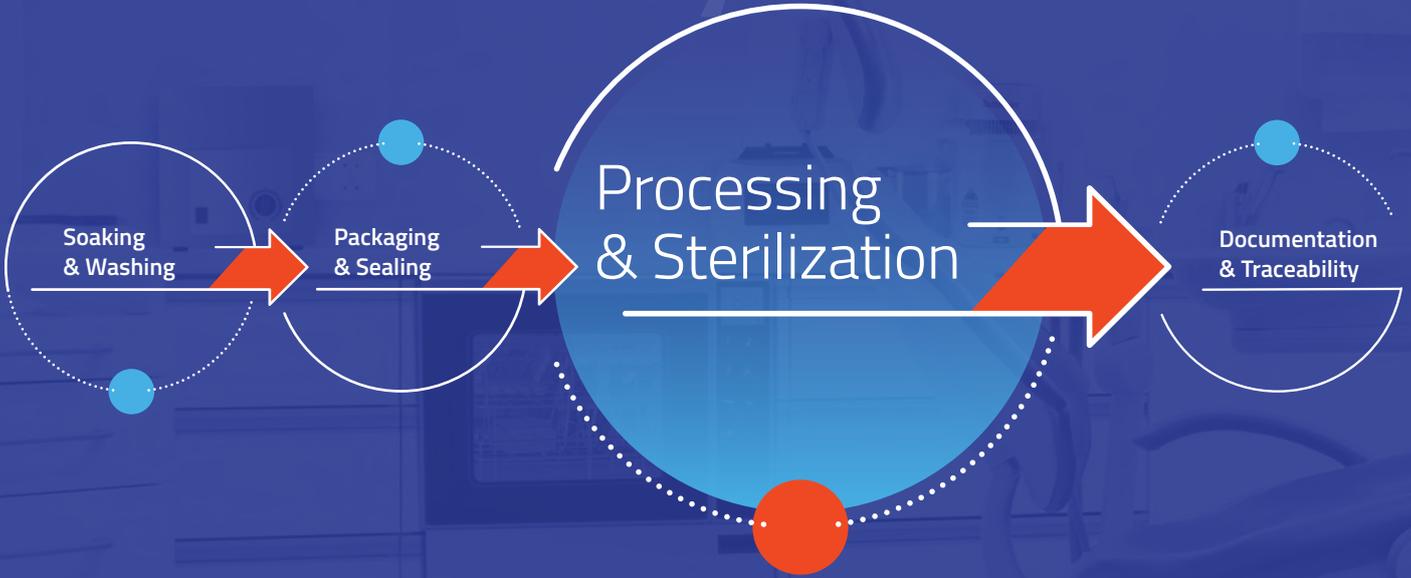
Achieving and maintaining the sterility of medical devices is one of the main challenges facing the industry. Tuttnauer Sterilization packs provide sterile storage for packages over six months and prevent microorganisms from entering the package after processing.

- ◆ The process indicators printed on the side of the Sterilization Reels are waterbased and conform with ISO 11140.
- ◆ Sterilization Reels are used for steam sterilization.
- ◆ Tuttnauer Sterilization Reels are manufactured in compliance with ISO 11607 standards using the most advanced technology.

Item	Catalog No.	Size	Image
Sterilization flat reels	WTL198-0266 WTL198-0282	from 55 X 100 mm up to 400 X 200 mm	
Sterilization flat pouches	WTL198-0195 WTL198-0257	from 75 X 150 mm up to 600 X 600 mm	
Sterilization self-sealing pouches	WWTL198-0185 WTL198-0194	from 60 X 100 mm up to 300 X 500 mm	

*For complete list of available Reels and Pouches, see specific Tuttnauer consumables product catalogue.





T-EDGE Line 10|11

So much more than just an autoclave

A fully automatic sterilization autoclave designed for dental clinics and private practices. This space-saving tabletop autoclave gives you high speed quality performance saving you time so you can assist your patients. Meets current international standards and regulatory requirements. The T-Edge will meet and exceed all your sterilization needs, while saving costs on energy.

- ◆ **Made from premium high quality durable material**
- ◆ **Repeatable performance for a wide range of applications**
- ◆ **Advanced technology that monitors & traces your process**
- ◆ **An integrated water reservoir that makes the autoclave completely independent of location and easy to install**



	T-EDGE10	T-EDGE11
Chamber Dim. ϕ x L (mm)	250 x 460	280 x 460
Chamber Volume	23 liters	27.2 liters
Dimensions (W x H x D)	480 x 500 x 580 mm	500 x 500 x 580 mm
Tray Dimensions (W x H x D)	421 x 189x 20.5 mm	421 x 207 x 20.5 mm
Weight	53 kg	56 kg
Power Supply	50/60Hz, 230V-1Ph+N+GND	50/60Hz, 230V-1Ph+N+GND
Number of Trays	5	5
Connections	1 Ethernet port, 2 USB ports, Wi-Fi, integrated automatic water filling and drain connection	
Items Supplied	Drain tube, tray holder	Drain tube, tray holder



It's nice to meet you. I'm T-Edge and I'll be with you every step of the way.

Sterilization at the Click of a Button

Just select the required program and press "start".
I'll take care of everything else. I like to call this "Click and Go".



- ◆ User friendly touchpad and control panel
- ◆ Automatic one-button programs, including test programs
- ◆ Control panel displays programs, cycles times, water levels, and more

The fully automatic sterilization autoclave
from start to finish

Steam Autoclave Consumables

Item	Catalog No.	Description	Packaging	Image
BD & Helix test kits	WTL198-0158	Bowie-Dick Test Pack (chemical indicator) for detecting inadequate air removal and steam penetration.	20 units / box	
	WTL198-0159	Bowie Dick test simulation for use in Helix-PCD system for Steam sterilization processes	250 PCD-A-3.5BD strips in sheets of 10 units + 1 Helix-PCD + 1 cotton bag. Packing	
	WTL198-0160	Helix-PCD + Chemical Indicator test strips kit for steam, 3.5min	250 PCD-A-3.5Y strips in sheets of 10 units + 1 Helix-PCD + 1 cotton bag.	
	WTL198-0161	Helix-PCD + Chemical Indicator test strips kit for steam, 18min	250 PCD-A-18.0Y strips in sheets of 10 units + 1 Helix-PCD + 1 cotton bag. Packing	
	CLE096-0070	Chamber Clean, Cleaning tablets (1 Box)	1 box of 12 units	
	CLE096-0071	Chamber Clean, Cleaning tablets (1 Carton)	12 boxes of 12 units	
Powder	CLE096-0021	Chamber Brite Powder, Cleaning powder (1 Box)	12 Boxes	
	CLE096-0026	Chamber Brite Powder, Cleaning powder (1 Carton)	10 bags / 1 Box	
Liquid	CLE096-0028	T- Autoclave Cleaner A mild, acid, concentrate for quick and effective cleaning	1 Liter bottle	

T-Top Autoclave

Designed to meet your healthcare clinics' everyday sterilization needs

The T-TOP is a 22 liter tabletop autoclave developed specifically for dental clinics of small to medium practices. Designed with simplicity and economy in mind, the T-TOP offers the perfect balance between performance & ergonomics, technology & usability. The key features include Plug & Play, with no dedicated installation connections needed, multicolour user-friendly touch screen with intuitive icons, advanced technology that monitors and traces the process, as well as connectivity Wi-Fi connection and R.P.C.R software. Resulting in a best in class autoclave which meets the requirements of all dental practices.

- ◆ **22L Chamber capacity with effective cycle times**
- ◆ **Stand-alone device, only needs an electrical connection**
- ◆ **Intuitive touch screen user interface**
- ◆ **Versatile cycle program options for several loads**
- ◆ **Built-in USB data logger for digital cycle documentation**
- ◆ **Wi-Fi connection for monitoring via smartphone or tablet**
- ◆ **Internal memory of 500 cycles**
- ◆ **Meets international standards regulations**

	T-Top
Chamber size	249 (Ø) x 450 (D) mm
Volume	22 liters
Usable chamber space	75% (~17L)
Overall dimensions	585 (D) x 462 (W) x 460 (H) mm
Standard cassette capacity	3 Full + 3 Half
# of Trays	4
Tray dimensions	370 (D) x 180 (W) x 15 (H) mm
Weight	46 kg
Connections	2 USB ports, Wi-Fi
Water filling	manual





Tuttbauer

HSG Autoclave

85 Liter chamber in a mobile autoclave

A free-standing, cabinet enclosed unit is as simple and easy to use as any tabletop autoclave. Designed to be a fast cycle sterilizer that is mobile, operates 24 hours a day, and can optionally operate independent of building utilities.

- ◆ Compact & Ergonomic
- ◆ Intuitive User Experience
- ◆ Eco-Friendly
- ◆ Enhanced Traceability
- ◆ Premium Performance
- ◆ Excellent Serviceability & Safety



Model	Chamber Dim. ϕ x L (mm)	Chamber Vol. (Liters)	No. of Trays	Tray Dimensions WxHxD (mm)	Weight (kg)	Overall Dimensions WxHxD (mm)
3870 HSG	384 x 758	85 liter	2	Small: 280 x 25 x 675 Large: 350 x 25 x 675	180	720x1365x1180

Electrical Specifications

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

Steam Autoclave Consumables

Item	Catalog No.	Description	Packaging	Image
Chemical Indicators	WTL198-0053	Type 1 Chemical Indicator Self-adhesive tape for steam	1 unit / box	
	WTL198-0055	Type 4 Multi-variable Chemical Indicator for steam sterilization processes.	250 / bag	
	WTL198-0162	Type 6 Emulator Chemical Indicators for steam 18 minutes, 134 °C.	200 / bag	
	WTL198-0163	Type 6 Emulator Chemical Indicators for steam 3.5 minutes, 134 °C.	200 / bag	
	WTL198-0068	Type 5 Unique point Integrator Indicator for steam sterilization processes.	200 / bag	
	WTL198-0081	Type 4 multi-variable Chemical Indicator for steam (temperature, time and steam quality).	200 / bag	
	WTL198-0082	Type 5 Chemical Integrator for steam, monitors all critical parameters of steam sterilization.	200 / bag	
Enzymatic Indicator	TRU214-0001	Self-Contained Enzymatic Indicator, 20 sec, FDA approved	25 vials / box	



Tuttnauer

CAUTION:
HOT

- Do not touch fan in
- Hold when

Water Treatment

Distill your own water on premises

Small enough to fit on a counter; Smart enough to distill water for sterilization.

- ◆ Eliminates the inconvenience and expense of buying bottled water
- ◆ Lets you bottle your own water at a fraction of the cost
- ◆ Produces up to 24 liters of pure water per day
- ◆ Prevents mineral build-up and improves the water purity
- ◆ Reduces 99% of Total Dissolved Solids
- ◆ Plugs into any standard outlet
- ◆ No tools, no fittings, no soldering, no installation - No hassle

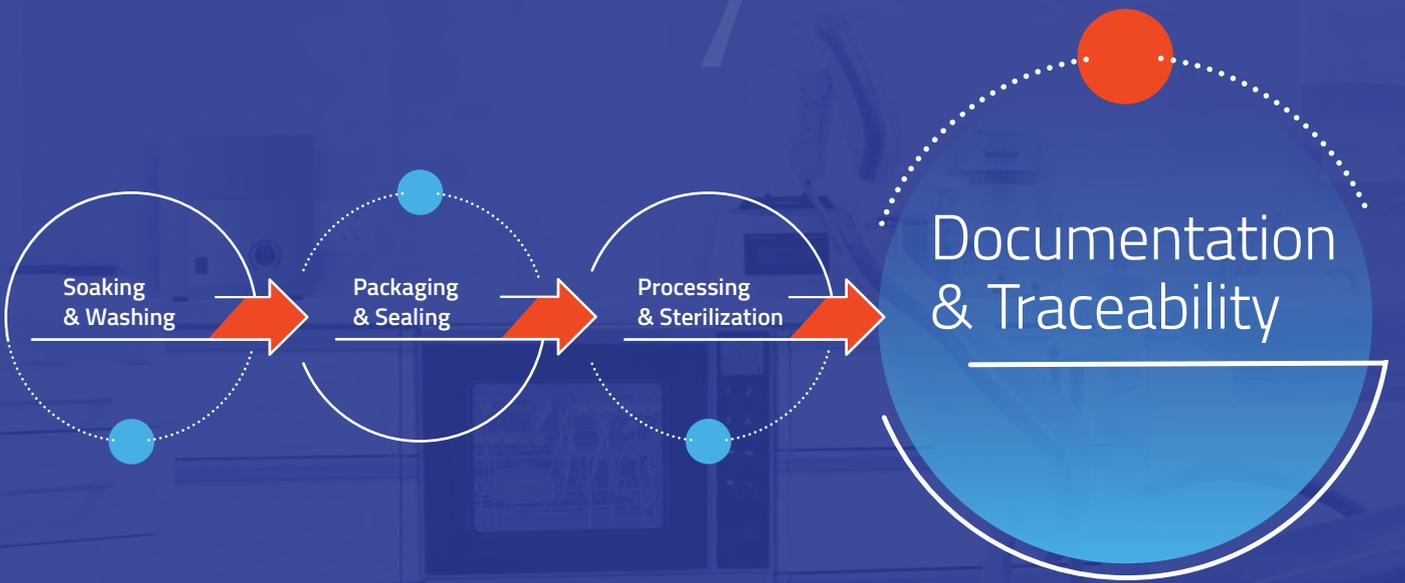
Water Distiller EWSRD1	
Maximum incoming water pressure	700 kPa (7 bar)
Minimum incoming water pressure	100 kPa (1 bar)
Max outgoing water flow	25 Liters / hour
Dimensions H x W x D (mm)	330 x 280 x 140 mm
Weight	3 kg



Water Distiller EWSRD1







Documentation and Traceability

Tuttnauer offers connectivity with all autoclave devices. Connectivity is very important for infection control and prevention. This encompasses the use of data logging, messaging, remote monitoring or integrated documentation and digital archiving of steps in the process.

Printouts for saving hard copies (optional printer)

The integrated printer gives detailed information on the pre-set and actual parameters of the process cycle, such as: real time, program selected, sterilization temperature, drying time summary of cycle completed, identification of the autoclave and program data.

When loading the autoclave a barcode reader can be used to scan the barcodes of each load. Once the cycle starts the barcode numbers will be printed together with cycle information.

- ◆ **Advanced documentation and traceability options, including barcode**
- ◆ **Personalized username and password**



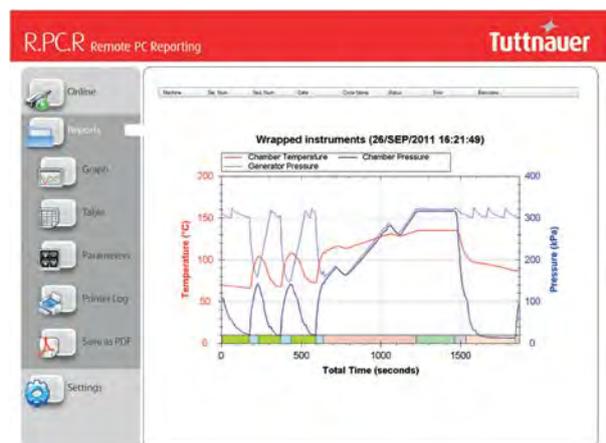
The T-Edge autoclave product line offers, 2 printer options: Printer for thermal paper (to print cycle report information)
Printer for label paper (to print labels with barcodes, to be pasted on the sterilized pouches)



Sophisticated data analysis capabilities with RPCR software

Cycle Records You Can Rely On

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



Your clinic's infection control success is backed by 95 years of experience of global leadership

Renowned global leaders in infection control solutions with more than

95 years experience

Products distributed to clinics, hospitals and research institutions in more than

140 countries

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