Tabletop Line

Elara Series - Pre and Post Vacuum Autoclaves

Tuttnauer
Your Sterilization & Infection Control Partners

The Elara 11 - Large and Efficient

The Elara 11 is designed for sterilization of wrapped, porous and hollow loads. The chamber volume is large, external dimensions are small, making it especially suitable for smaller clinics requiring a high turnover. The control system is smart and intuitive, easy to use and has a large memory for consistent and reliable performance.

Efficient
- Short cycle and high volume pre and post vacuum pump for perfect class B sterilization results
- 316L grade stainless steel chamber and door with electro-polish finish
- A built-in steam generator provides steam and facilitates a standby steam mode
- The door closes smoothly and locks automatically

Features
- Large 28.5 Liter chamber within a small foot print. A perfect fit for standard 60 cm shelves or counters
- Provided with 5 stainless steel trays and can also hold cassettes
- Water filling from the front economizes on office space by eliminating the need to keep the top of the autoclave accessible

Safety features
- A cycle will not start unless the door is properly locked
- An automated double locking safety device prevents the door from opening while the chamber is pressurized
- An automatic safety shut-off prevents overheating of the chamber
- The autoclave comes with safety pressure-release valves for the chamber and generator

Monitoring and Control

Monitoring is essential for correct infection control. The Elara 11 uses advanced micro-processor technology for consistent, reliable performance. The control system is fully configurable and stores information from the 40 most recent cycles. A USB port enables the user to download and store cycle data. The LCD screen shows essential information for monitoring the status of a sterilization cycle. A conveniently located built-in thermal printer prints detailed cycle progress information.

Control Made Simple

The control panel is easy to operate. The fully automated, menu-driven panel is consolidated into a 3 button keypad, allowing the user to easily operate the autoclave, browse programs and program the autoclave.

The Elara 11 offers a total of 8 programs: 6 sterilization programs and 2 test programs: Bowie and Dick Test and Vacuum Test. The user can disable programs which allows for savings on validation costs.

Program Name	Instruments and Materials	Sterilization Temp	Sterilization Time	Drying Time	Average Cycle Time
Flash 134	Unwrapped Instruments	134°C (273°F)	4 Min.	1 Min.	24 Min.
P134	Porous Wrapped and Hollow A	134°C (273°F)	18 Min.	15 Min.	52 Min.
Wdry 134	Wrapped Instruments	134°C (273°F)	4 Min.	15 Min.	37 Min.
No Dry 121	Unwrapped Instruments	121°C (250°F)	20 Min.	-	38 Min.
Wdry 121	Porous Wrapped and Hollow A	121°C (250°F)	20 Min.	20 Min.	58 Min.
Delicate	Porous Wrapped and Hollow A	121°C (250°F)	20 Min.	-	35 Min.

Elara 10 – Precision and Performance

The Elara 10 is a 23 liter pre and post vacuum sterilizer for sterilization of wrapped materials, narrow hollow instruments and porous loads in hospitals, private clinics and dental practices. Its operation is simple and safe due to a high-tech computerized control system and fully automatic door.

Outstanding Performance
- A powerful vacuum pump with a cooler ensures highly efficient air-removal resulting in perfect class B cycles
- A high speed 2.9 kW, built-in independent steam generator made of 316L stainless steel, ensures that steam is always available for fast sterilization
- The sterilization chamber is made of 316L stainless steel and is jacketed for uniform heat distribution

Safe and Clean
- 316L stainless steel pressure vessel conforms to Pressure Equipment Directives (PED)
- A safety pressure-release valve
- Water detection electrode indicates when reservoirs are empty or too full
- A cycle will not start unless the door is properly locked and the door will not open while sterilizing

High Precision Monitoring and Control

The Elara 10 has an advanced computerized micro-processor control system that includes a touch screen panel. This feature offers enhanced monitoring and provides the control and flexibility you need for perfect sterilization results. The large LCD graphic display features:

- Detailed cycle data and autoclave status
- Touch screen control and a user friendly interface allowing the user to easily browse programs or set the autoclave
- User can select from a variety of languages
- Ability to customize cycle parameters for maximum flexibility
- Password protection provides secure access

Documentation

- A conveniently located built-in printer uses thermal paper and prints detailed cycle program information
- 5 years of data can be stored on a 256MB card (SD card) thus eliminating the need for paper
- Direct PC connection using USB or RS232 ports

The Elara 10 offers a total of 7 programs: 5 sterilization programs and 2 test programs: Bowie and Dick Test and Vacuum Test. The user can disable programs which allows for savings on validation costs.

Description	Temp.	Sterilization Time	Dry Time	Average Cycle Time
Flash	134°C (273°F)	3 Min.	1 Min.	17 Min.
Unwrapped	134°C (273°F)	3 Min.	15 Min.	18 Min.
Wrapped	134°C (273°F)	3.5 Min.	20 Min.	40 Min.
Prion	134°C (273°F)	18 Min.	20 Min.	55 Min.
Porous	121°C (250°F)	20 Min.	20 Min.	57 Min.

The Elara 6 - Quick and Compact

Compact and versatile, the Elara 6 is the ideal sterilization solution for any medical, dental or healthcare environment where speed and flexibility are required without compromising quality. The Elara 6 is a flexible and efficient tabletop autoclave designed to perform Class B sterilization for all types of instruments and materials: solid, hollow, porous, wrapped or unwrapped. An advanced computerized control system offers safety and ease of operation.

Outstanding Performance
- An efficient square chamber fits two wide trays which maximizes utilization of chamber space
- A built-in steam generator provides steam and facilitates the standby steam mode
- Automatic water filling option and continuous direct drain
- Frontal water filling economizes on space by eliminating the need to keep the top of the autoclave accessible

Safety Features
- A door locking device prevents a cycle from starting unless the door is properly locked
- Pressure safety valves prevent over pressurization in chamber and generator
- A safety thermostat prevents over heating in the chamber and generator
- Detailed and descriptive indicators and alarms greatly enhance convenience and safety

Monitoring and Control

Monitoring is essential for quality sterilization in any clinic or private practice. The Elara 6 user friendly micro-processor control system features a large graphic display combined with 4 multi-function buttons allowing enhanced monitoring and control for the flexibility you need.

Features
- High precision control system for perfect sterilization results
- User friendly, intuitive interface displays continuous information about cycle progress
- Ability to customize display language from a selection of languages
- User programmable cycle
- Password protection provides secure access

Documentation
- Integrated thermal printer provides detailed documentation of each performed cycle
- USB and RS232 communication ports for data transmission
- Cycle data can be stored on a card (optional) and transferred
  to a computer with the Reader Kit (optional) eliminating the need for paper

The Elara 6 offers a total of 8 programs: 6 sterilization programs and 2 test programs: Bowie and Dick Test and Vacuum Test. The user can disable programs which allows for savings on validation costs.

Description	Temp.	Sterilization Time	Dry Time	Total Duration (Minimum)
Unwrapped	121°C (250°F)	15 Min.	-	18 Min.
Unwrapped	134°C (273°F)	4 Min.	-	8 Min.
Dental handpieces	134°C (273°F)	4 Min.	-	8 Min.
Porous Hollow	121°C (250°F)	15 Min.	14 Min.	33 Min.
Porous Hollow	134°C (273°F)	4 Min.	14 Min.	24 Min.
Prion	134°C (273°F)	18 Min.	14 Min.	35 Min.

Standards and Directives

Quality Standards
· ISO 9001:2008 - Quality Management Systems
· ISO 13485:2003 - Medical Devices

Directives
· MDD 93/42/EEC ammended by Directive 2007/47/EC
· PED 97/23/EEC - Pressure Equipment Directive
· WEEE and RoHS

Technical Standards
· EN 13060:2004
· EN 61010-1
· EN 61326
· IEC 61010-2-040
· ISO 17665-1

Specifications

Model	Chamber Dimensions (mm)	Chamber Volume (Liter)	No. of Trays	Tray Dimensions W x H x D (mm)	Voltage (V) Freq. (Hz)	Current (A) Power (W)	Overall Dimensions W x H x D (mm)	Weight (Kg)
Elara 11	(Ø x L) 280 x 504	28.5 L	5	194 x 22 x 442	1ph 230 V 50/60 Hz	10 A, 2300 W	530 x 444 x 645	66
Elara 10	(Ø x L) 261 x 452	23 L	4	184 x 20 x 390	1ph 220 V 50/60 Hz	13 A, 2900 W	534 x 475 x 609	60
Elara 6	(W x H x D) 185 x 100 x 285	5.2 L	2	180 x 20 x 280	1ph 230 V 50/60 Hz	7.8 A, 1800 W	385 x 370 x 535	45

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

Tuttnauer Europe b.v.
Hoeksteen 11, 4815 PR
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@tuttnauerUSA.com

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