

Tuttnauer Lab

Sterilization & Life Science Solutions

T-Lab Eco

85 Liter Chamber

Affordable Performance and Trusted Reliability
for your laboratory sterilization needs

LEADING IN
STERILIZATION
SINCE
1925

Laboratory



The Economic Laboratory Autoclave From The World's Premium Manufacturer

Vertical Autoclave



Economic Line



Reliable Performance



Minimal Laboratory Resource Consumption



T-Lab Eco was developed especially for educational institutions and research facilities. Designed with simplicity and economy in mind.

This vertical floor-standing autoclave covers the fundamental needs for general lab sterilization with the aim of increasing the **productivity** of your laboratory.

Offering the best universal capacity, together with the **optimization** of resources such as water, power and operating time results.

An affordable and reliable solution you can count on for managing your laboratory **workload**.

Sterilization Application

Intended for the sterilization of a wide range of liquids and solids such as glassware, metal utensils and other laboratory items.

This reliable workhorse is ideal for the general laboratory in need of easy operation, safety and cycle features for day-to-day needs.

LABORATORY APPLICATIONS



SOLID, GLASSWARE LOADS



Making Your Process Easier, Accurate and Affordable

Intuitive, user friendly technology, including colour touchscreen and multiple programmes for sterilization.

Feature Advantages Include:

Reliable Performance

This basic product will do what you need and expect

- Solid and glassware loads
- Liquid loads
- Efficient sterilization time including cooling
- Two PT100 sensors as standard

Plug & Play

This autoclave's plug and play mode does not require dedicated installation connections, simply a power source

- Multicolour user-friendly touch screen
- Connectivity to R.P.C.R
- Stores the last 1000 cycles in built-in memory

Affordable

Less in More

- Built to last without paying for the features and parts you do not need

Greater Value at Lower Cost

Less water wasted, less electricity consumed, less time spent on maintenance and repair.

Versatile

Adaptable for All Your Basic Needs

- Sterilizes liquids, solids, sealed and unsealed bottles
- Performance and quality within a small space
- Cylindrical autoclaves – easier to operate, less expensive to maintain, and more reliable over a longer working life

Safety

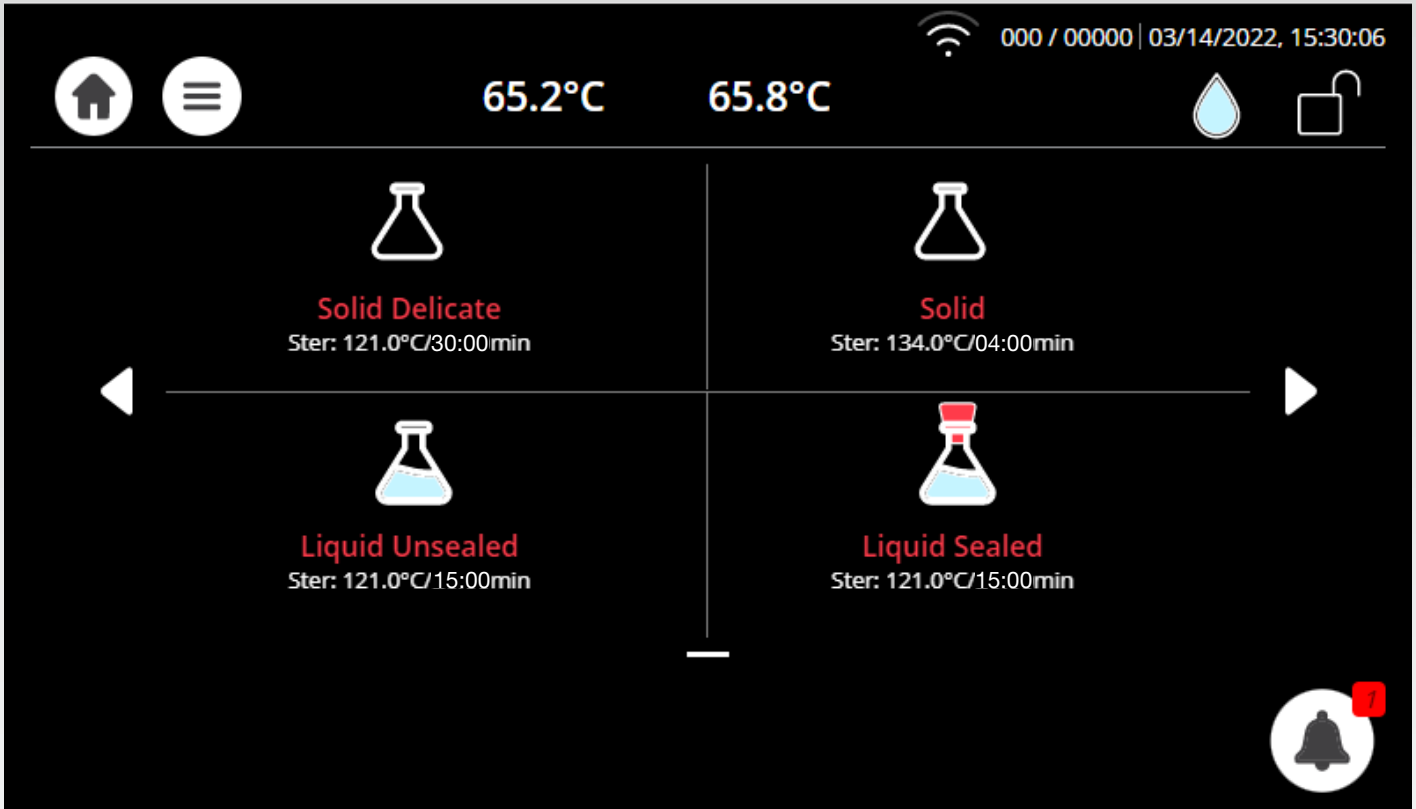
Meets International Regulations

- International standards + PED certified





EQUIPPED WITH UNPARALLELED FEATURES, UNIQUE TO T-LAB ECO

- Two PT100 sensors
- Built-in cooling fan
- High-resolution touchscreen
- Built-in memory: 1000 cycles





STERILIZATION PROGRAMMES

Cycle icon	Cycle name	Temperature	Sterilization time (minutes)	Load Type	Type of Use
	Liquid Sealed	121°C	15	Container with Liquid	For storage
	Liquid Unsealed	121°C	15	Container with Liquid	Immediate use only
	Solid	134°C	4	Solid Load	Immediate use only
	Solid Delicate	121°C	30	Solid Load	For storage

LOADING CAPACITIES


ERLENMEYER FLASKS Size	Total Units: #Unit × #Basket	BOTTLES / Schott Duran Size	Total Units: #Unit × #Basket
250 ml Ø 85 × 143 mm	13 × 2	250 ml Ø 70 × 143 mm	19 × 2
500 ml Ø 105 × 183 mm	8 × 2	500 ml Ø 86 × 182 mm	12 × 2
1000 ml Ø 131 × 230 mm	5 × 2	1000 ml Ø 101 × 203 mm	8 × 2
2000 ml Ø 166 × 280 mm	3 × 1	2000 ml Ø 136 × 260 mm	4 × 1

* Loading capacities in this tables are non-binding guidance.



* Total units per basket have been calculated using International Standard Erlenmeyer's Flasks and Schott Duran.



Stainless Steel Wire Baskets

Item	Dimensions	Photo
2 Stainless Steel wire baskets included	Dimensions Ø x D (mm): 360 x 280	

Optional Unperforated Basket

Item	Dimensions	Photo
Stainless steel basket - Optional	Dimensions Ø x D (mm): 350 x 450	
GR tray - Optional	Dimensions Ø x D (mm): 345 x 5	

Optional Thermal Printer

T-LAB Printer – Desktop Direct Thermal Bar Code Printer

- High quality double-walled clamshell design
- 127 mm (5") OD media capacity
- Up to 127 mm (5") per second print speed
- Easy media loading
- Head open sensor
- RS232 connection



Technical Features	
Resolution	8 dots/mm (203 DPI)
Max. print speed	127 mm (5")/second
Max. print width	54 mm (2.13")
Max. print length	2,286 mm (90")
Overall Dimensions	W x H x D (mm) W x H x D (Inch)
	109 x 171 x 209 4.29" x 6.73" x 8.23"
Weight	1.2 kg (2.65 lbs)
Label roll capacity	127 mm (5") OD
Memory	4 MB Flash memory 8 MB SDRAM microSD card for flash memory expansion, up to 4 GB
Interface	RS-232 USB 2.0 Bluetooth (user option)
Accessories	Windows labelling software CD disk External universal switching power supply

Regulations

Company Standards and Legislation

EMC Directive 2014/30/EU

ISO 9001 Quality Management System

2006/42/EC Machinery Directive

2014/35/EU, Directive, Low Voltage Directive (LVD)

2012/19/EU WEEE and EU 2017/2102 Restriction of the use of certain hazardous substances (RoHS Directive)

Product Standards

Pressure Vessel – PED 2014/68/EU

IEC 61010-1 Safety requirements for electrical equipment for measurement, control, and laboratory use –

Part 1: General requirements

IEC 61010-2-040: Safety requirements for electrical equipment for measurement, control, and laboratory use –

Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials

EN 61326-1: Electrical equipment for measurement, control, and laboratory use – EMC requirements –

Part 1: General requirements



TECHNICAL SPECIFICATIONS

Specifications	
Chamber Volume (Litres)	85
Weight (kg)	135
Chamber Dimensions Ø x D (mm)	400 x 700
External Dimensions W x H x D (mm)	644 x 980 x 760
Shipping Dimensions W x H x D (mm)	810 x 1240 x 890
Ratings	Voltage: 220-240 VAC Single Phase Power: 5400 W Amperage: 22.3 A
Wastewater tank	3 Litres
Cooling water tank	6 Litres



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since
1925

140
countries

Laboratory

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