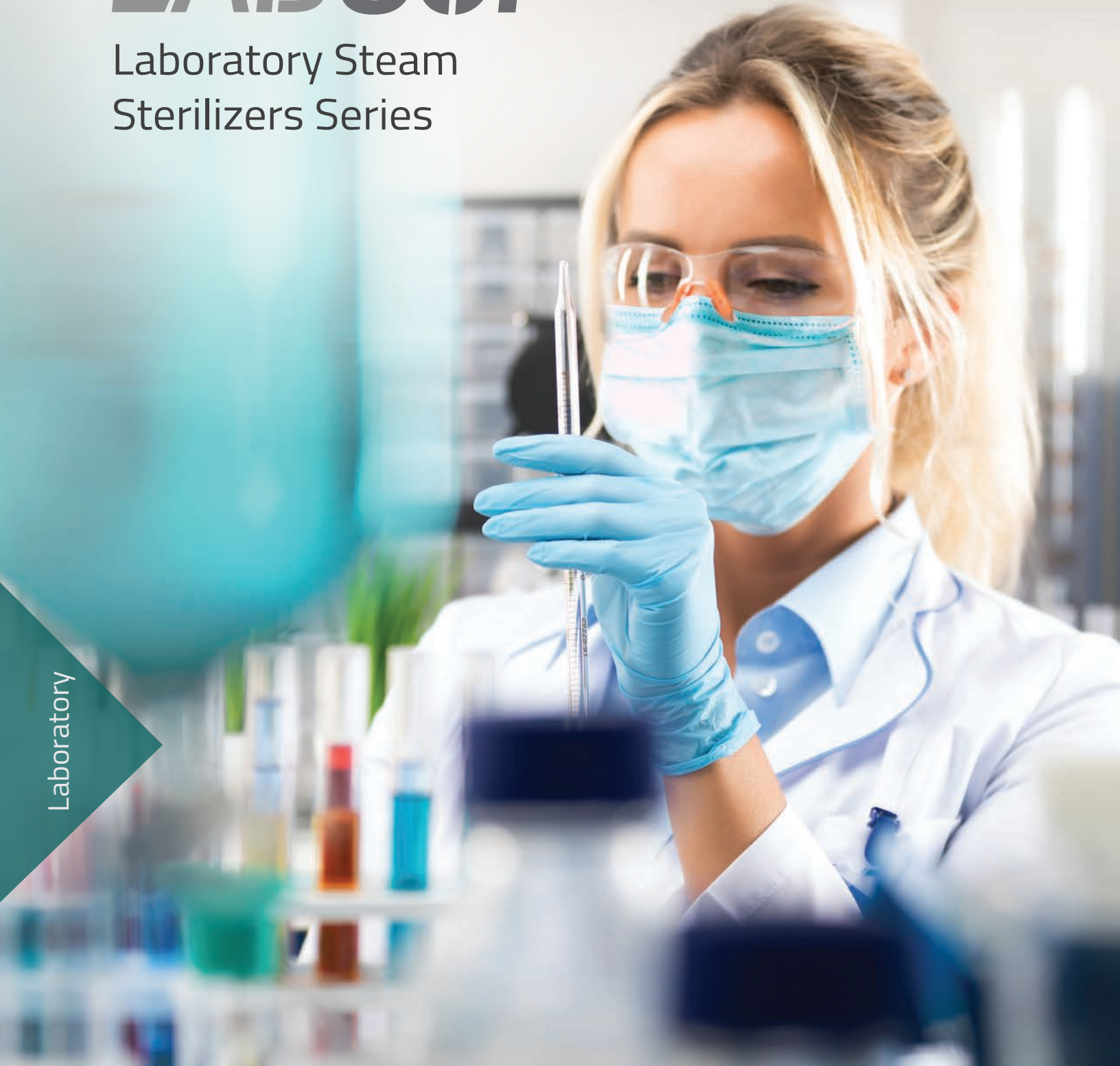




Sterilization & Life Science Solutions

# LABSCI

Laboratory Steam  
Sterilizers Series



Laboratory



Tuttnauer, a global sterilization solution expert, is proud to present its LabSci sterilizers series - robust reliable and cost-effective laboratory sterilization solutions for all your lab needs.



Service

Sterilization in a laboratory environment has its unique requirements. Tuttnauer laboratory autoclave sterilizers are designed to provide high quality repeatable performance and accountability for a wide range of lab applications, including: liquids, media, glassware, instruments, clothing, waste, media clothing and laboratory items.



flexibility

LabSci line series offers a wide range of models and sizes from compact benchtop machines to vertical and horizontal sterilizers. Our models include electronically controlled sterilizers, pre-post vacuum technology, innovative control system and much more.



Experience

All our models comply with the highest manufacturing and safety standards, and provided with a built-in printer for GLP-compliant documentation.






Quality






Our sterilizers are backed with full tech and consulting services support to ensure trouble free sterilizing performance.








# Tuttnauer LabSci sterilizer series

Choosing the right steam autoclave depends on several considerations: the type of loads, frequency of use, available services and load volumes. The Tuttnauer LabSci autoclave series successfully meets the challenges posed by sterilization in laboratories and research institutes.






| Tabletop 19 Liter - 85 Liters |  |          |           |           |           |
|-------------------------------|--|----------|-----------|-----------|-----------|
|                               |  | LabSci 9 | LabSci 10 | LabSci 12 | LabSci 15 |
| Advantages                    | <ul style="list-style-type: none"> <li>Easy to install</li> <li>Simple to operate</li> <li>Saves Space</li> <li>No Plumbing Required</li> <li>Fast Processing</li> <li><b>Ideal for small research labs</b></li> </ul>   | ✓        | ✓         | ✓         | ✓         |
|                               | <ul style="list-style-type: none"> <li>Electronic, 4 cycles, Custom cycles available</li> <li>Single button</li> <li>Cycles are fully automated</li> </ul>   | ✓        | ✓         | ✓         | ✓         |
|                               |  TOOLS/<br>INSTRUMENTS  GLASS  TEXTILES/<br>CLOTHES | ✓        | ✓         | ✓         | ✓         |

|            |  | LabSci 11L | LabSci 15L | LabSci 15L+ |
|------------|--|------------|------------|-------------|
| Advantages | <ul style="list-style-type: none"> <li>Easy to install</li> <li>Simple to operate</li> <li>Saves Space</li> <li>No Plumbing Required</li> <li>Fast Processing</li> <li>Complete drying</li> <li><b>Ideal for small-medium research labs</b></li> </ul>   | ✓          | ✓          | ✓           |
|            | <ul style="list-style-type: none"> <li>16 custom cycles</li> <li>Cycles are fully automated</li> <li>2 Integrated Temperature probes</li> <li>Four validated cycles (glass, plastic, liquid A and liquid B-waste)</li> </ul>   | ✓          | ✓          | ✓           |
|            |  TOOLS/<br>INSTRUMENTS  GLASS  TEXTILES/<br>CLOTHES  LIQUIDS  MEDIA/<br>PLASTIC | ✓          | ✓          | ✓           |

## Vertical Laboratory Autoclaves 28 Liter, 85 Liters

|             |   | LabSci 11L-V | LabSci 15L-V |
|-------------|---|--------------|--------------|
| Advantages  | <ul style="list-style-type: none"> <li>Easy to install</li> <li>Simple to operate</li> <li>No Plumbing Required</li> <li><b>Perfect for Large horizontal objects like Bioreactors</b></li> </ul>  | ✓            | ✓            |
|             | <ul style="list-style-type: none"> <li>Two integrated temp probes</li> <li>Four validated cycles (glass, plastic, liquid A and liquid B-waste)</li> <li>Create up to 16 custom cycles</li> </ul>  | ✓            | ✓            |
| Description | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>TOOLS/<br/>INSTRUMENTS</p> </div> <div style="text-align: center;">  <p>GLASS</p> </div> <div style="text-align: center;">  <p>TEXTILES/<br/>CLOTHES</p> </div> <div style="text-align: center;">  <p>LIQUIDS</p> </div> <div style="text-align: center;">  <p>MEDIA/PLASTIC</p> </div> </div> | ✓            | ✓            |
|             |   |              |              |

## Pre & Post Vacuum Laboratory Autoclaves 28 Liter, 85 Liters

|             |   | LabSci 15L+WS | LabSci 11L-PVGC |
|-------------|---|---------------|-----------------|
| Advantages  | <ul style="list-style-type: none"> <li>Plug and Play</li> <li>Mobile (on wheels)</li> <li>No plumbing required</li> <li>Water saving system</li> <li>Fast processing</li> <li>Complete drying</li> </ul>  | ✓             | ✓               |
|             | <ul style="list-style-type: none"> <li>Pre and Post Vacuum</li> <li>Steam generator</li> <li>Vacuum pump</li> </ul>   | ✓             | ✓               |
| Description | <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>TOOLS/<br/>INSTRUMENTS</p> </div> <div style="text-align: center;">  <p>GLASS</p> </div> <div style="text-align: center;">  <p>TEXTILES/<br/>CLOTHES</p> </div> <div style="text-align: center;">  <p>LIQUIDS</p> </div> <div style="text-align: center;">  <p>MEDIA/PLASTIC</p> </div> </div> | ✓             | ✓               |
|             |   |               |                 |

All of our sterilizers incorporate advanced technological features to provide safe and validated sterilization:

- All liquid capable sterilizers include temp probes preventing boil-over and ensuring proper sterilization
- Customizable cycles (could be saved on the system and not re-entered each time).
- Options that are available on all "LabSci" models include: Warming (95° to 104°C), Isothermal (80° to 94°C), F<sub>0</sub>, 21 CFR with R.P.C.R software, Biohazard filter and Over Pressure Cycle to ensure sealed bags and containers do not break during the sterilization cycle.



LabSci 9-19 Liter ■ LabSci 10-23 Liter

# Automatic LabSci benchtop autoclaves



Tools/  
Instruments



Glass



Textiles/  
Clothes

**2 Year warranty | Free internal printer**

**Designed to autoclave wrapped, unwrapped, glass and tools.  
Not suitable for liquids.  
Sterilization time up to 99 minutes.**

- Temperature selection from 105° to 137°C (221° to 279°F)
- Includes trays
- In-line particle filter to protect valves
- Electronic pressure and temperature sensors
- Low Water Alarm - sounds when reservoir needs to be refilled.
- Standby Heating - keeps chamber warm for quicker cycles
- Built In Printer - Provides a printed summary at the end of each cycle, documenting temperature, elapsed sterilization and drying time, selected cycle number, real time and date, as well as any errors or interruptions that may occur during the cycle.

|                           | LabSci 9             | LabSci 10            | LabSci 12                            | LabSci 15                            |
|---------------------------|----------------------|----------------------|--------------------------------------|--------------------------------------|
| Chamber Volume (L)        | 19                   | 23                   | 34.4                                 | 65                                   |
| Max Available Height (in) | 6.75"                | 8.3"                 | 10.1"                                | 12.1"                                |
| Chamber Dimension (in)    | 9" x 18"             | 10" x 18"            | 12.2" x 18.5"                        | 15" x 20"                            |
| External Dimension (in)   | 20" x 15" x 20"      | 20" x 15" x 20"      | 23.5" x 18" x 21.5"                  | 26" x 21" x 27"                      |
| Power                     | 120V                 | 120V                 | 230V, 1 phase<br>(60 Hz NEMA 6-15) ⚡ | 230V, 1 phase<br>(60 Hz NEMA 6-15) ⚡ |
| Utilities                 | No Plumbing Required | No Plumbing Required | No Plumbing Required                 | No Plumbing Required                 |
| Stainless Steel Stand     | N/A                  | N/A                  | N/A                                  | FREE With Autoclave                  |





# LabSci benchtop autoclaves






LabSci 11L-28 Liter ■ LabSci 15L-65 Liter ■ LabSci-15L+ -85 Liter

**2 Year warranty | Free internal printer**

## Designed to autoclave everything in your lab, including liquids.

- No water utility connections needed, just plug in and add water.
- Two integrated temperature probes for complete sterilization of liquids
- Four validated cycles (glass, plastic, liquid A and liquid B-waste).
- Stores up to 200 past cycles you can open on your PC
- Create up to 16 custom cycles
- Trays Included
- Optional Biohazard filter (BH) prevents contaminated air from exhausting into the lab

Options that are available on all “LabSci” models include: Warming (95° to 104°C), Isothermal (80° to 94°C) F<sub>0</sub>, 21 CFR with R.P.C.R software, Biohazard filter and over pressure cycle to ensure sealed bags and containers do not break during the sterilization cycle.

|                                  | LabSci 11L   | LabSci 15L  | LABSCI 15L+  |
|----------------------------------|--|---|--|
| Chamber Volume (L)               | 28   | 65  | 85   |
| Max Available Height (in)        | 9"   | 12.1"   | 12.1"  |
| Chamber Dimension (in) (Øxd)     | 11" x 18"  | 15" x 19.7"   | 15" x 27.2"  |
| External Dimensions (in) (wxhxd) | 20.9" x 17.3" x 24.8"  | 28.3" x 21.3" x 30.1"   | 28.3" x 21.3" x 37"  |
| Power                            | 230V, 1 phase (60 Hz)<br>NEMA 6-15  | 230V, 1 phase (60 Hz)<br>NEMA 6-15  | 230V, 3 phase (60 Hz)<br>NEMA L15-30  |
| Utilities                        | No plumbing required   | No plumbing required  | No plumbing required   |
| Stainless Steel Stand            | N/A  | Free with Autoclave   | Free with Autoclave  |

## Erlenmeyer Flask (ml) Loading Capacity

|            | 250  | 500  | 1000 | 2000 | 3000 | 5000 |
|------------|------|------|------|------|------|------|
| LabSci11L  | 1x9  | 1x4  | 3    | 0    | 0    | 0    |
| LabSci15L  | 1x17 | 1x11 | 1x6  | 1x3  | 0    | 0    |
| LabSci15L+ | 1x23 | 1x17 | 1x10 | 1x5  | 0    | 0    |

## Schott-Duran Flasks (ml) Loading Capacity

|            | 250  | 500  | 1000 | 2000 | 3000 | 5000 |
|------------|------|------|------|------|------|------|
| LabSci11L  | 1x12 | 1x9  | 1x5  | 0    | 0    | 0    |
| LabSci15L  | 1x27 | 1x16 | 1x11 | 1x6  | 0    | 0    |
| LabSci15L+ | 1x36 | 1x23 | 1x18 | 1x9  | 0    | 0    |

# Labsci vertical autoclaves

LabSci 15LV+V-85 Liter



**2 Year warranty | Free internal printer**





LabSci 11L-V-28 Liter

## Designed to autoclave everything in your lab, including liquids.

- No utility connections needed (models 11L-V and 15L+V) just plug in and add water
- Two integrated temp. probes to ensure the liquid is completely sterilized
- Four validated cycles (glass, plastic, liquid A and liquid B-waste)
- Stores up to 200 past cycles you can open on your PC
- Create up to 16 custom cycles
- Two baskets included
- Optional biohazard filter (BH) prevents contaminated air from exhausting into the lab

Options that are available on all "LabSci" models include: Warming (95° to 104°C), Isothermal (80° to 94°C), F<sub>0</sub>, 21 CFR with R.P.C.R software, Biohazard filter and over pressure cycle to ensure sealed bags and containers do not break during the sterilization cycle.

|                                  | LabSci 11L-V   | LabSci 15L+V   |
|----------------------------------|--|--|
| Chamber Volume (L)               | 28   | 85   |
| Max Available Height (in)        | 15.5"  | 25"  |
| Chamber Dimensions (in) (Øxd)    | 11" x 18"  | 15" x 27.2"  |
| External Dimensions (in) (wxhxd) | 21.3" x 39" x 17.3"  | 29" x 42" x 29"  |
| Power                            | 230V, 1 phase (60 Hz)<br>NEMA 6-15  | 230V, 3 phase (60 Hz)<br>NEMA L15-30  |
| Utilities                        | No plumbing required   | No plumbing required   |

### Erlenmeyer Flask (ml) Loading Capacity

|             | 250    | 500   | 1000  | 2000  | 3000  | 5000 |
|-------------|--------|-------|-------|-------|-------|------|
| LabSci11L-V | 2 x 5  | 2 x 3 | 1     | 1     | 1     | 1    |
| LabSci15L+V | 3 x 12 | 3 x 8 | 2 x 5 | 2 x 2 | 2 x 1 | 1    |

### Schott-Duran Flasks (ml) Loading Capacity

|             | 250    | 500    | 1000  | 2000  | 3000  | 5000 |
|-------------|--------|--------|-------|-------|-------|------|
| LabSci11L-V | 2 x 8  | 2 x 3  | 1     | 1     | 1     | 1    |
| LabSci15L+V | 3 x 19 | 3 x 12 | 2 x 8 | 2 x 2 | 2 x 1 | 1    |



# LabSci 11L-PVGC autoclaves



Liquids



Instruments



Textiles/  
clothes



Glass

**2 Year warranty | Free internal printer**




LabSci 11L-PVGC - 28 Liter

## LabSci Autoclaves with Cooling Coils "C", Vacuum Pump "PV" and an integrated steam generator "G"

- Steam generator for heat on demand and quicker heat up times.
- Pre & Post Vacuum for faster more efficient air removal (tubing, glassware, pouches, wrapped tools or garments)
- Cooling Coils decreases cool down time by 75%
- Steam generator with post vacuum for complete drying
- Optional Biohazard filter (BH) prevents contaminated air from exhausting into the lab

Options that are available on all "LabSci" models include: Warming (95° to 104°C), Isothermal (80° to 94°C), F<sub>0</sub>, 21 CFR with R.P.C.R software, Biohazard filter and Over Pressure Cycle to ensure sealed bags and containers do not break during the sterilization cycle.

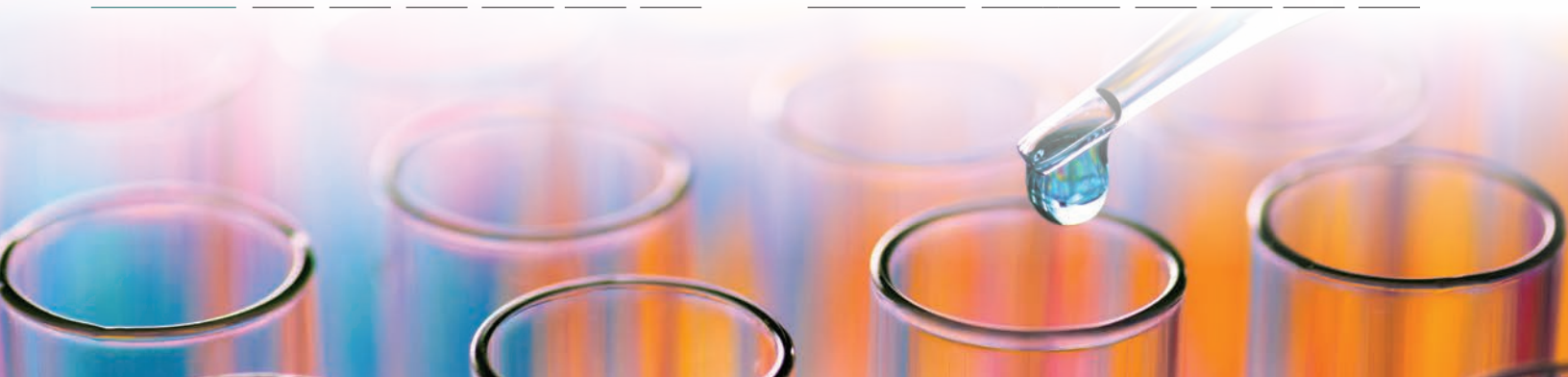
|                           | LabSci 11L-PVGC   |
|---------------------------|---|
| Chamber Volume (L)        | 28  |
| Max Available Height (in) | 9"  |
| Chamber Dimension (in)    | 11" x 18"   |
| External Dimension (in)   | 20.9" x 17.3" x 26"   |
| Power                     | 230v, 1 PHASE (60 Hz) NEMA 6-15  |
| Utilities                 | Treated Water, Tap Water, Compressed Air and Floor Sink   |

### Erlenmeyer Flask (ml) Loading Capacity

|                 | 250   | 500   | 1000 | 2000 | 3000 | 5000 |
|-----------------|-------|-------|------|------|------|------|
| LabSci 11L-PVGC | 1 x 9 | 1 x 4 | 3    | 0    | 0    | 0    |

### Schott-Duran Flasks (ml) Loading Capacity

|                 | 250    | 500   | 1000  | 2000 | 3000 | 5000 |
|-----------------|--------|-------|-------|------|------|------|
| LabSci 11L-PVGC | 1 x 12 | 1 x 9 | 1 x 5 | 0    | -    | 0    |



# LabSci 15L+WS



**2 Year warranty | Free internal printer**

## Independent from Utilities

- Plug & Play with internal reservoirs - No need to connect the autoclave to the building utilities for distilled water, tap water and drain
- Pre & Post Vacuum for faster more efficient air removal (tubing, glassware, pouches, and wrapped garments)
- Built-in steam generator and vacuum pump for complete drying
- Water Saving System - Uses only 5 liters of water a day
- Free standing with built-in swivel wheels for mobility
- Optional Biohazard filter (BH) prevents contaminated air from exhausting into the lab



LabSci 15L+WS | 85 Liter

Options that are available on all “LabSci” models include: Warming (95° to 104°C), Isothermal (80° to 94°C), F<sub>0</sub>, 21 CFR with R.P.C.R software, Biohazard filter and Over Pressure Cycle to ensure sealed bags and containers do not break during the sterilization cycle.

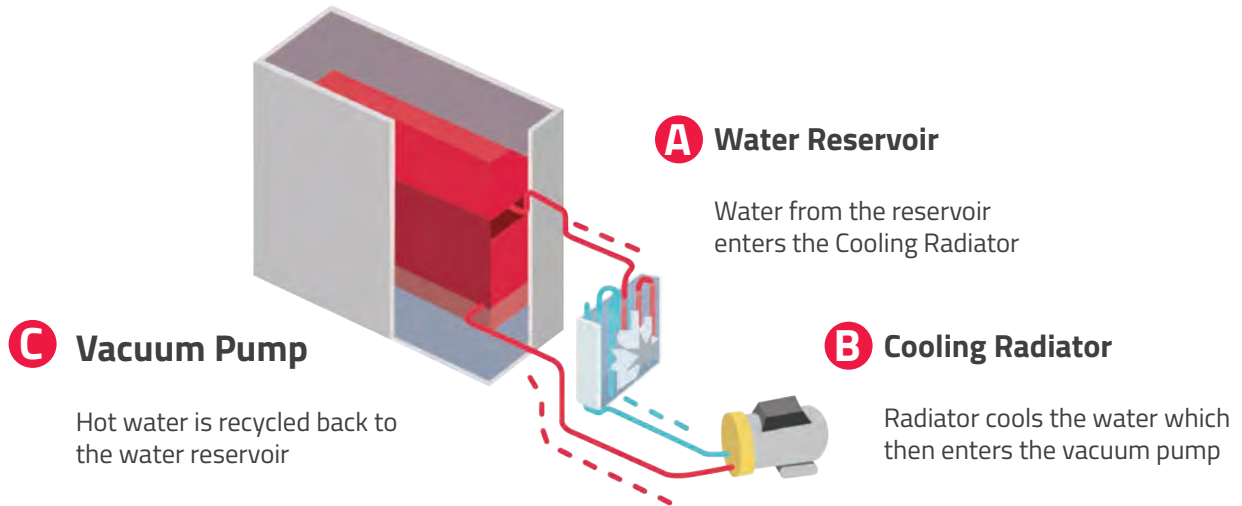
### LabSci 15L+WS

|                           |                       |
|---------------------------|-----------------------|
| Chamber Volume (L)        | 85                    |
| Max Available Height (in) | 12.1”                 |
| Chamber Dimension (in)    | 15” x 27.2”           |
| External Dimension (in)   | 28.3” x 53.7” x 46.5” |
| Power                     | 230V, 3 phase (60 Hz) |
| Utilities                 | No plumbing required  |



# Water saving System

Huge water savings are achieved with the optimal highly efficient water recycling system that consumes only 5L of water per day.



## Utility connection features

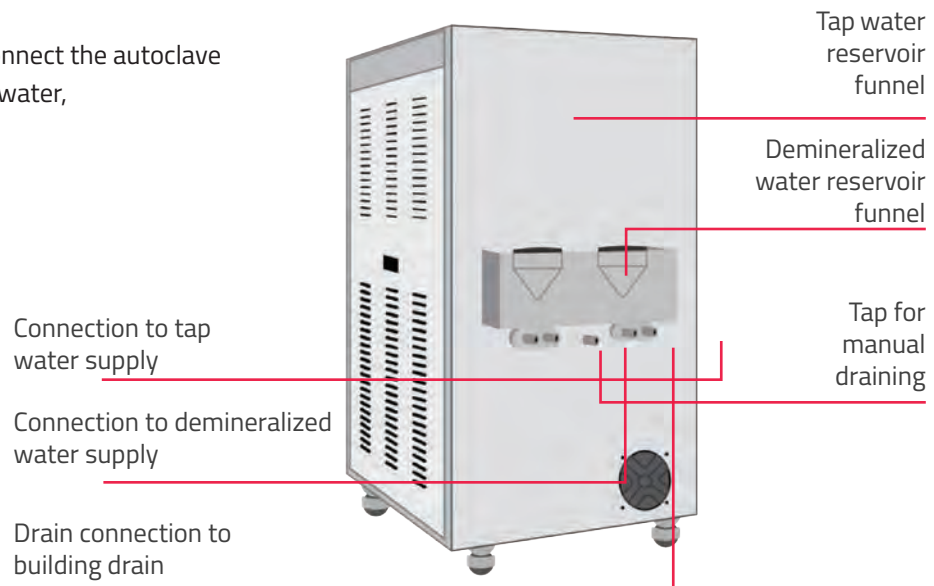
### Dependent on Utilities

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 standard with "Plug & Play" option to operate 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.



# Tuttnauer Autoclaves - Service By Heidolph

Tuttnauer, partnered with Heidolph to provide all service. Tuttnauer sterilizers require general maintenance and cleaning. A sterilizer often requires regulatory compliance at some local, or federal standard based on the application within the operation of the unit. Our factory trained technicians are here to provide basic product upkeep, and to support your sterilizer through a variety of services outlined below:

## Preventive Maintenance (with or without calibration recommended yearly on-site or in-house)

- Replacement of Chamber Brite, safety valve, safety valve holder, door bellow, door gasket, clean water electrode, strainer, and inspect the reservoir and piping
- Solenoid Valves are checked for proper operation
- Safety features are tested
- Preventive maintenance agreements come with discount on parts

## PM with calibration

- Everything included with the PM service, plus temperature and pressure calibration with empty chamber temperature mapping
- A total of three cycles with probes will be run

## IQ/OQ (recommended)

- Documented proof that facilities and equipment have been delivered and installed, in accordance with the requirements and safety regulations stipulated in the design qualifications
- Consists of:
  - IQ/OQ test plan and report
  - Temperature and pressure mapping

## IQ/OQ/PQ

- Documented proof that utilities and equipment have been delivered and installed, in accordance with the requirements and safety regulations stipulated in the design qualifications
- Consists of:
  - IQ/OQ/PQ all testing and reports in the IQ/OQ plus a half and full load cycle tests
  - Please contact Heidolph to discuss your PQ needs to structure the load testing to meet your application



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