



## LAB 610 G2

High capacity/small footprint  
efficient glassware washer for  
mid-size laboratories

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# Customization. Innovation. Excellence.

## Driven by customer needs

Steelco is a leading infection control solution provider, supplying the healthcare, laboratory research and pharma sectors. Active in over 100 countries, Steelco has equipped numerous world renowned hospitals and counts among its customers household names in the laboratory, pharmaceutical and industrial sectors.

Driven by customer feedback, Steelco develops, manufactures and supplies solutions that maximize infection control, safety, optimise processes and minimize costs. Already a leader in innovation in areas such as automation, the integration within the Miele organization has provided additional boost in technological development.

Steelco provides technical service and user training courses at the Steelco Academy as well as at customer sites.

Our optional remote diagnostics capabilities and worldwide team of factory trained engineers ensure that you receive the service support you need to cost effectively maximize the uptime of your equipment.



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# LAB 610 G2

## Laboratory Glassware Washer



### LAB 610 G2

Up to **3 baskets** (on telescopic runners)  
at **4 different levels**

Chamber volume **270 litres**

Load volume **241 litres**

The LAB 610 G2 is a large-capacity front loading glassware washer to meet the needs of medium-size facilities.

This unit is capable of injection washing and drying up to 3 baskets at 4 different levels, providing maximum flexibility through multiple chamber configurations depending on the height of loaded items.

Thanks to an intelligent use of space with the SmartLoad system, capacity has been increased by more than 50% when compared to the previous model.

With a variable-speed pump, circulation pressure and water consumption is optimized to individual loads.

Steelco laboratory washers offer versatility, safety, high performance, and process traceability with low total life costs.

### Capacity up to 192 pieces of 100 ml bottles!





# Key Advantages

## a winning combination



**Eco  
Friendly  
Efficiency**

Process efficiency

Steelco laboratory washers are engineered to offer best-in-class solutions for reducing energy and water consumption, giving users the lowest operating costs per load.



**Optimized  
Process  
Speed**

Speed is important

Our focus is to provide customers with the fastest possible washing processes depending on the amount and type of soil.

Check LAB 610 G2 options for time and energy saving (see table on page 19).



**Flexibility,  
Control &  
Connectivity**

Process under control

The high-quality colour touch display, in combination with Wi-Fi and Ethernet connection, ensures intuitive operator interaction and excellent control over the entire process. In addition, SteelcoData Live allows remote visualisation of both real-time and historic device performance data.





## Easy Plug & Play Installation

### Plug and Play

Despite its large capacity, the LAB 610 G2 is a compact and "plug and play" device needing just an electrical supply, water inlets, and a drain connection. It is designed to overcome architectural limitations such as door passages or lifts with a plinth on rollers for easy transfer and positioning.



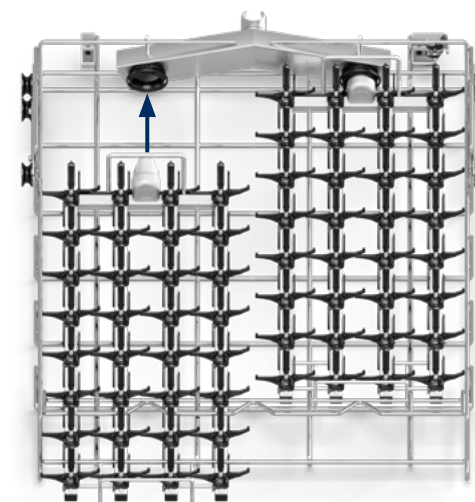
## Washing Carts Customizable

Whether you need to wash small or large glassware, or a combination of both, loading racks can be configured to meet your specific needs with modules ranging from 8 to 32 injector nozzles.



## Loading Configuration Flexibility

Maximum flexibility is combined with intuitive use. The improved SmartLoad Plus system allows more flexibility with the availability of up to three loading levels simultaneously. In addition, loading is made fast and easy with a wide range of standard and configurable loading options.





# Efficiency & Sustainability coming together



## Unrivalled levels of efficiency

Reduction of energy and water consumption with the lowest operating costs per load.

The variable speed pump adjusts circulation pressure (maximum performance when needed) and water consumption (water conservation when possible). Washing performance is therefore always optimal and can be accurately monitored via a pressure transducer.

## Top quality materials, devices made to last

Chamber, spray arms, and sump filters are made from high-grade, electro-polished stainless steel AISI 316 L; a guarantee for cleanliness, long-term reliability, and easy recycling of the product at the end of its life.

The structural frame of the LAB 610 G2 is made of high quality stainless steel to ensure longer life.



### MAIN WASH

maximum washing performance with thorough and fast cleaning

### RINSE PHASE

safe rinse performance with reduced water consumption



## Summary of Efficiency & Sustainability options

- Preheating Tank 1
- Two-way drain for water recycling system
- Dynamic drying
- Steam condenser

# Design & Performance

## coming together

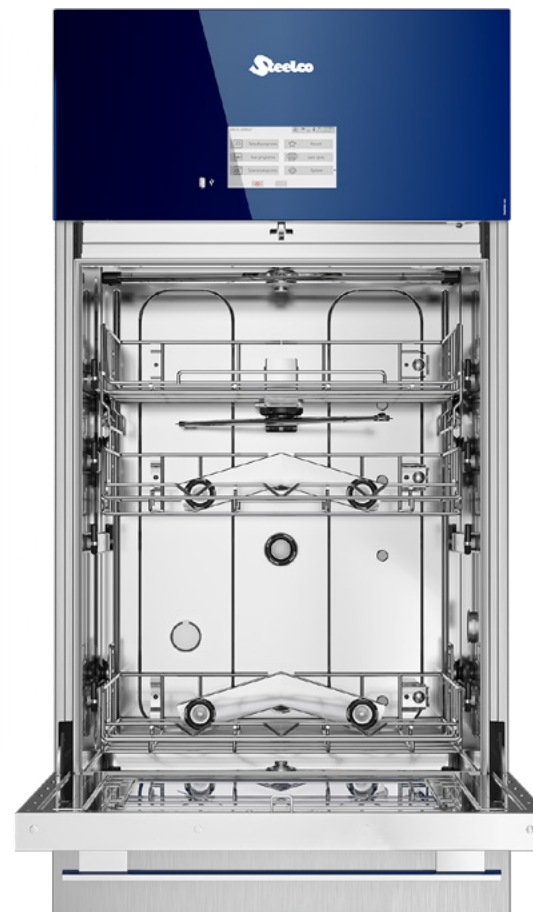


### Speeding up the cycle while saving time and energy

Thanks to the availability of the Fast Cycle option's preheated tank, it is possible to save time and to have reprocessed items available sooner without diminishing process quality. The heating-up time of the final rinse phase can be reduced by 80% in average use conditions.

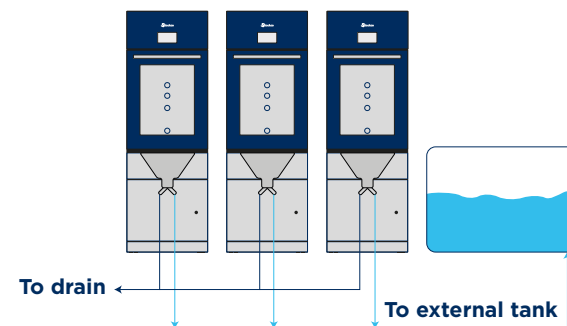
### Forced, filtered air drying

Forced and hot air drying allows for perfectly dry goods. A HEPA H14 filter unit ensures contamination-free results. The optional humidity sensor ensures that goods are dried efficiently with the minimum time and energy necessary.



### Efficient water recycling

As natural resources are becoming increasingly valuable, Steelco helps reduce water consumption by an additional 30%. The "two-way drain" option allows for recycling the final rinse water into an external tank for subsequent reuse by the same or other devices. Alternatively water can be collected for treated by dedicated purification plants.



# Flexibility & Control coming together



**Flexibility,  
Control &  
Connectivity**

## User-friendly interface

The large 7" touch screen control panel facilitates device control with bright, easy-to-read information even from a distance. Operators are supported at every step with clear and intuitive commands.

## Common design for all devices

The user-friendly designed touch screen is consistent throughout the portfolio of Steelco devices, supporting intuitive error free operation and reliable processes.

## Washing performance

The HMI displays washing pressure and water conductivity parameters during relevant process phases including final rinse quality check.

## User access levels

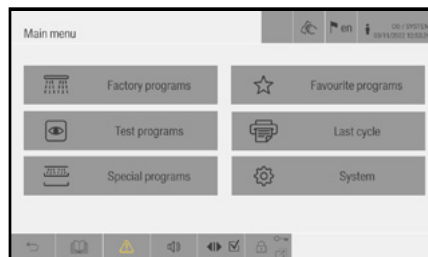
Five levels of access ensure that only trained staff have access to specific functions: operator, department manager, service technician at the customer's site, authorized service technician, and manufacturer.

## Technical service mode

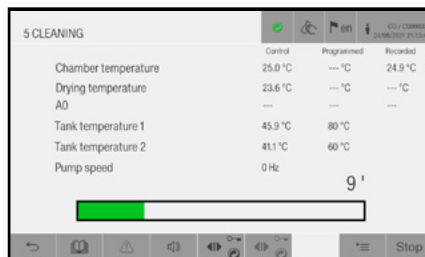
Designed for streamlined maintenance, an easy-to-read synoptic panel provides an in-depth overview of device and component status speeding up service interventions.

## Cycle data storage

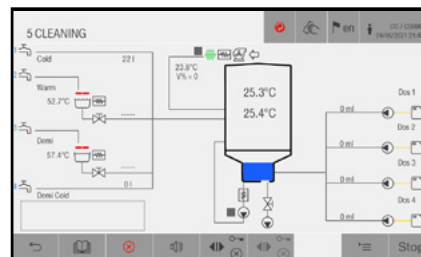
Cycle data is stored and available from the integrated printer. Data is sent to a centralized traceability system if the device is connected to the network.



Clear and easy to understand main menu



Highly visible cycle status and alarm messages



Easy-to-read synoptic panel





## Network connectivity

Wi-Fi and Ethernet connections are standard for machine performance and cycle data collection via SteelcoData Live software. In addition, a USB port allows the download of raw cycle data, washing programs, parameters, and machine software updates.

The LAB 610 G2 is natively ready to connect with a cloud environment.



## SteelcoData Live

A web-based software enables to view in real-time machine performance, cycle data, and alarms with historical records.

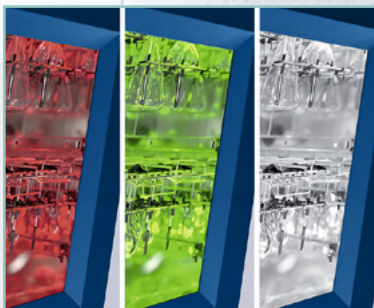
Software features:

- + Stores utility consumption when available from devices
- + Device cycle and alarm monitoring and data management with different authorisation levels
- + Respects HL7 standard
- + Reliable information and data entirety
- + Traceability and backward traceability of user activities and material handling
- + Real-time analysis
- + Efficiency improvement tools
- + Workstations can display only activities in the specific user's area of competence
- + Effective information sharing with customers
- + Can be integrated with other client software systems



## I'm ready!

Device status and availability are clearly shown by the change of colour of the chamber light. White: cycle in progress - Green: process completed OK - Red: alarm active



# Small footprint & Easy installation coming together



With a small footprint, the LAB 610 G2's high capacity does not affect a department's space. The simplified "plug and play" installation just needs flexible connections to the electrical main, water inlet and drain.

## Flexibility in configuration

Depending on the utilities available, Steelco LAB 610 G2 can be configured for:

- electrical heating
- indirect external steam heating reducing overall electrical power supply need
- mixed heating allowing switching from steam to electrical heating as a backup solution

An optional built-in water softener can be added in case of poor incoming water quality or busy laboratories.

The washer is suitable for vented or not vented installation with steam condensing options.



## Flexibility in after sale options

Steelco offers retrofit kits to this range of devices to adapt to customer needs:

- Analog pressure transducer to record water circuit pressure
- Conductivity sensor for monitoring final rinse water
- Drain pump to match with high or remote drains
- Drying phase controlled by humidity sensor
- ...and much more





## Minimized service requirements

Device's maintenance is highly simplified and cost-effective. Access for service is fully frontal via the hinged door which opens completely. This grants access to all the components and streamline maintenance. LAB 610 G2 is equipped with wheels for fast and easy positioning.



# High capacity & Flexibility coming together

## Loading Configuration Flexibility

Make the most of your laboratory capacity.  
The new LAB 610 G2 optimise handling and the use of  
chamber space.

## SmartLoadPlus 3 racks 4 levels

SmartLoad Plus system allows the use of up to three  
baskets on telescopic runners which can be flexibly  
positioned and connected to the water circuit at four  
different levels. This allows various loading combinations  
to accommodate a variety of different goods.

All baskets can be used on any level. The differentiation  
between baskets which run on the open door and ones  
on telescopic runners now no longer applies.

Telescopic racks on all levels guarantee greater loading  
flexibility.

Vertical clearances depend on which baskets are used, their  
position and height of the load (see table on page 18).



**C1832** with spray arm, for optimum  
loading of inserts. For use on levels 2 to 4.  
Loading surface: W 507 mm, D 545 mm



**C1833** without spray arm, for optimum  
loading of inserts. For use on level 1 only.  
Loading surface: W 507 mm, D 545 mm

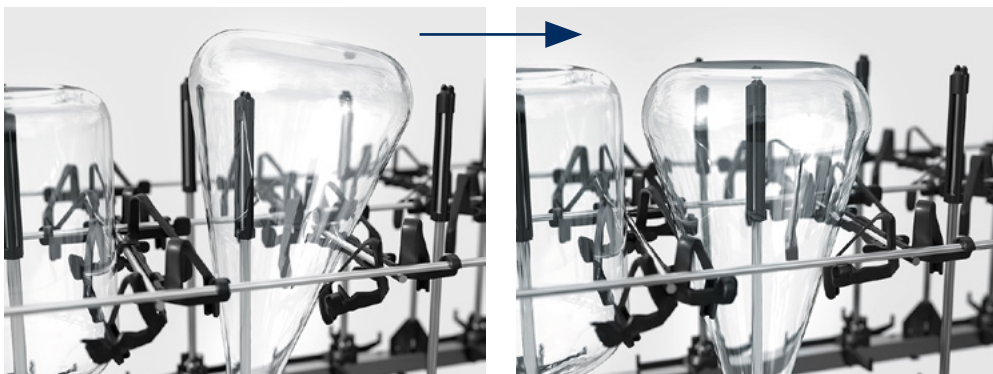


**C1834** with two docking connections  
for up to 2 injector modules or inserts.  
Automatic closing of the connections  
when not in use. For use on all levels.  
Loading surface: W 507 mm, D 520 mm



## Glassware loading has never been so simple.

Glassware loading is flexible and intuitive thanks to new injection nozzles, new plastic supports, injection modules and support grid, increasing the laboratory washer's load capacity.



Glassware positioning is easy, quick, and self centring.



During the wash cycle, the supports ensure the best cleanliness avoiding alterations to the glassware, such as scratches.



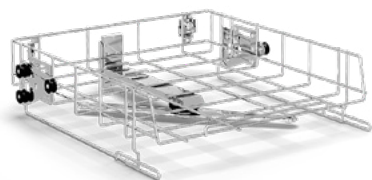
Support for nozzles that help you to maximize the load height, increasing your available space inside the chamber.



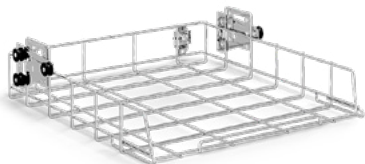


# Washing baskets configurations

All baskets used on the laboratory washer LAB 610 G2 can be fitted with the following inserts:

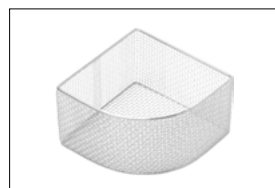


**C1832** For use on levels 2 to 4

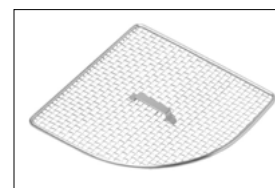


**C1833** For use on level 1

## Inserts and other components for C1832 and C1833



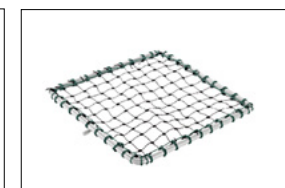
**C68** insert for optimum loading of test tubes, height 200 mm. For use with C77 lid



**C77** lid for C68, C69 and C70 inserts



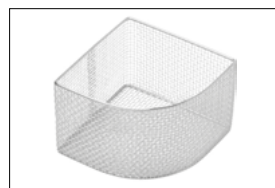
**C97** insert for optimum loading of 26 half petri dishes. Spacing between the holders 24 mm



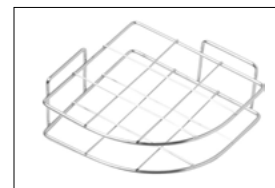
**A 3** cover net 1/4, plastic coated metal frame with plastic netting



**E 149** insert 1/4, for 80 test tubes up to 16 x 105 mm, 80 compartments. Mesh width on the base 8 x 8 mm



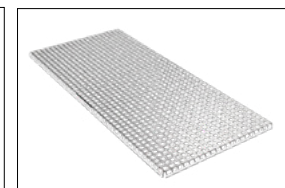
**C69** insert for optimum loading of test tubes, height 130 mm. For use with C77 lid



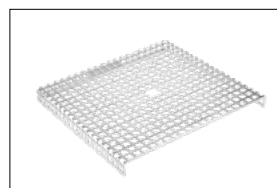
**C86** insert partition mesh for dividing the base area in C68, C69 and C70



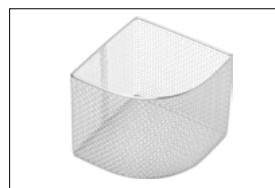
**AK 12/1** insert 1/2 suitable for beakers, funnels, breast milk pumps, for example. With flexible handles



**A 320** insert for the gentle cleaning of delicate load items by interrupting the water jet. Perforations 7 x 7 mm



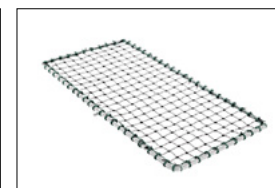
**A 14/1** lid for fixing delicate wash items. Stainless steel, 7 x 7 mm perforations, 3 mm slat



**C70** insert for optimum loading of test tubes, height 130 mm. For use with C77 lid



**C61** insert for the optimum loading of wide-necked Erlenmeyer flasks and measuring cylinders. Equipped with 14 spring hooks, 175 mm & 14 105 mm height



**A 2** cover net 1/2, for fixing delicate wash items. Plastic coated metal frame with plastic netting



**A 321** insert suitable for beakers, funnels, breast milk pumps, for example. With flexible handles





**E 402** insert 1/2 for optimum loading of up to 44 watch glasses Ø 80 - 125 mm. Equipped with 23 bars spaced 15 mm apart



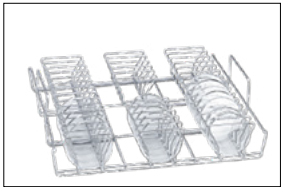
**E 136** insert 1/1 for optimum loading of 56 half petri dishes with Ø 100 mm. Equipped with 56 holders, height 70 mm, distance apart approx. 26 mm



**E 403** insert 1/2 for optimum loading of up to 105 watch glasses Ø 50 - 60 mm. Equipped with 36 bars spaced 9 mm apart



**E 137** insert 1/1 for E 136 for optimum loading of 56 half petri dishes with Ø 100 mm. Equipped with 56 holders, height 70 mm, distance apart approx. 26 mm



**E 118** insert 1/1 for the optimum loading of 38 half petri dishes with Ø 100 mm. Equipped with 38 holders, height 70 mm, distance approx. 26 mm

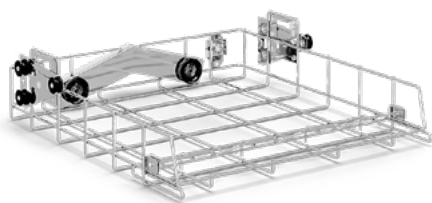


**E 494** insert 1/2 for the gentle holding of 5 microtiter plates



# Washing baskets configurations

C1834 basket used on the laboratory washer LAB 610 G2 can be fitted with the following modules.



**C1834** For use on levels 1 to 4

## Modules and other components for C1834



**A 300/2** module 2x4  
(w/o nozzles)



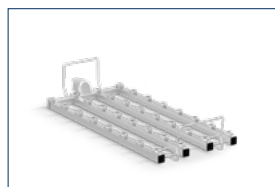
**A 300/3** module 2x4  
For Erlenmeyer flasks,  
round flasks, laboratory  
bottles, measuring flasks  
and measuring cylinders  
(250 - 1000 ml)  
4 x A 840 injector nozzles  
4 x A 841 injector nozzles



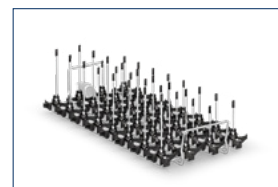
**A 860** holder frame 2x4



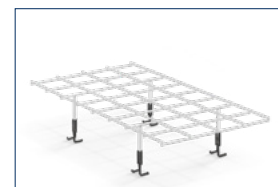
**A 301/4** module 3x6  
(w/o nozzles)



**A 302/2** module 4x8  
(w/o nozzles)



**A 302/3** module 4x8  
For Erlenmeyer flasks,  
round flasks, laboratory  
bottles, measuring flasks,  
and measuring cylinders  
(25 - 100 ml)  
16 x A 844 injector nozzles  
16 x A 845 injector nozzles



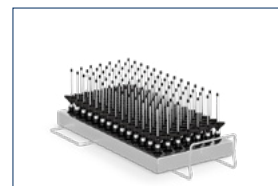
**A 862**  
holder frame 4x8



**C1846** ideal for large-  
volume glassware, bottles  
up to 50 l.



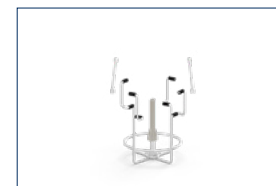
**A 303** suitable for 98  
measuring and full pipettes



**A 304** for 98 tubes, e.g.  
centrifuge tubes, phials,  
tests



**A 313** for reprocessing  
bulky laboratory  
glassware items using A  
846, A 847 and A 848  
injector nozzles:  
- Laboratory bottles  
- Round flasks  
- Erlenmeyer flasks  
- Measuring cylinders



**A 846** for laboratory  
bottles, max. 10 l, and  
round flasks, max. 6 l  
Nozzle length: 127 mm.  
Total length with support:  
158 mm, Ø 10 mm





**A 301/5** module 3x6  
For Erlenmeyer flasks,  
round flasks, laboratory  
bottles, measuring flasks,  
and measuring cylinders  
(50 - 250 ml)

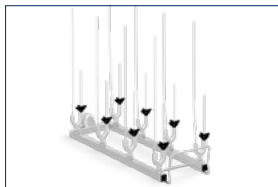
9 x A 842 injector nozzles  
9 x A 843 injector nozzles



**A 861** holder frame 3x6



**A 306/1** for laboratory  
glassware, in particular  
large measuring cylinders  
Capacity: four 1-2 l tall  
measuring cylinders.  
Suitable for two 1-2 l short  
measuring cylinders, and 2  
tall measuring cylinders



**A 312** for reprocessing up  
to 8 viscometers  
With 8 x A 867 special  
nozzles.  
Nozzle spacing 118 mm  
across width, 118 mm  
across depth



**A 847** for Erlenmeyer  
flasks, max. 5 l  
Nozzle length: 127 mm,  
Ø 10 mm, Ø of hexagonal  
support: 142 mm



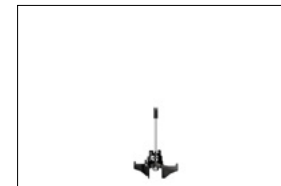
**A 848** for laboratory  
bottles, max. 10 l, and  
round flasks, max. 6 l  
Nozzle length: 350 mm.  
Total length with support:  
158 mm, Ø 10 mm



## Injector nozzles



**SD-B** for butyrometers  
length 240 mm



**A 844** Ø 2.5,  
length 80 mm



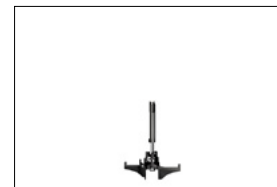
**A 840** Ø 6,  
length 130 mm



**A 845** Ø 2.5,  
length 125 mm



**A 841** Ø 6,  
length 210 mm



**A 842** Ø 4,  
length 90 mm



**E 336**  
irrigation sleeve



**A 843** Ø 4,  
length 185 mm

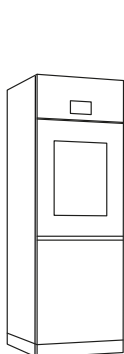


**E 362**  
blanking screw

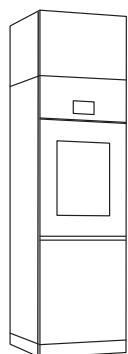


# Capacity and Dimensions

## Layouts and configurations



Without  
top extension



With  
top extension

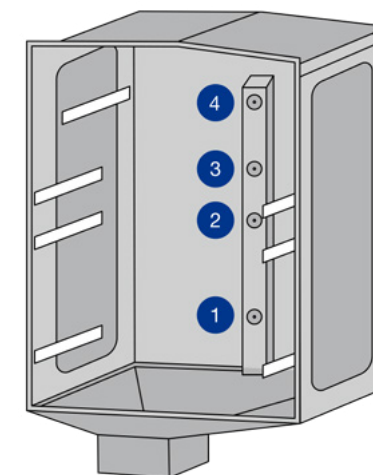
Model	Chamber (WxDxH) - mm			Litres	Overall (WxDxH) - mm		
Single door							
LAB 610 G2	570	609	728	253	650	700	1940/2395 (*)

(\*) The overall height of the device depends on the presence of steam condenser, its type and its combination with other options.  
Loading height: 850 mm above finished floor.

### Configurable positions

	Reprocessing with spray arm (3 levels)		Reprocessing with spray arms (2 levels)		Blended reprocessing with spray arm and injector nozzles (3 levels)	
	Basket	Load height [mm]	Basket	Load height [mm]	Basket	Load height [mm]
Level 4	C1832	158 ± 30	-	278 ± 30	C1832	158 ± 30
Level 3	-	178 ± 30	C1832		-	244 ± 30
Level 2	C1832		-	354 ± 30	C1834	
Level 1	C1833	234	C1833		C1834	210

	Reprocessing with injector nozzles (3 levels)		Reprocessing with injector nozzles (2 levels)		Reprocessing with spray arm or injector nozzles (1 level)	
	Basket	Load height [mm]	Basket	Load height [mm]	Basket	Load height [mm]
Level 4	C1834	224	-	344	-	-
Level 3	-	220	C1834		-	
Level 2	C1834		-	330	-	
Level 1	C1834	210	C1834		C1833 C1834	690



# Technical Data

## Components and optional features

### Chamber and door

N° of doors	1
Door opening	Hinged
Door operation	Manual

### Load concept

Rack system with max 3 levels and 4 different positions	•
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### Water heating system

Electrical	•
Steam or Mixed	◦

### Chemical dosing

2x maintenance free liquid chemical dosing pumps controlled by flow meters (up to 2 additional dosing pumps)	•
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### Drying

HEPA H14 filtered electrically heated hot air drying	◦
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### Control system and traceability

Colour touch screen HMI	7"
Automatic detection of the n° of wash cart	•
Integrated printer	•
Wi-Fi and Ethernet port for digital traceability (via SteelcoData Live software)	•
Chamber light	◦
Multi-colour chamber light	◦

### Sustainability & Performance

Single water preheating tank (Fast Cycle configuration)	◦
Steam condenser	◦
Drying phase duration controlled by humidity sensor	◦
2 way drain for water/energy recycling	◦

### Process quality

Washing circuit pressure monitoring (analog transducer)	◦
Final rinse water quality monitoring (conductivity meter, data recorded)	◦

### Machine connections and technical area

Inlet water connections	3
Built-in water softener	◦
Drain pump	◦
Full frontal access for service	•

• = Standard    ◦ = Option    - = Not available

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# Customization. Innovation. Excellence.

**STEELCO - Miele Group Member**

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