



MLS-3751L-PE

MLS

Portable Laboratory Autoclaves

50 | 75 L

Convenient sterilisation on demand offers great flexibility
MLS series top-loading autoclaves are a popular method of sterilisation for today's research laboratories. Self-contained and easy to use, these reliable energy-saving autoclaves are ideal for a wide range of applications.

Pre-set Programs

These units offer a total of 12 pre-set programs to choose from on a simple-to-operate control panel with lighted temperature/time indicators. They also allow for independent programming for users to set their own programs.

User Friendly Design

A swing-up lid provides effortless access for loading and unloading test tubes, flasks and lab instruments. The hand-pull system enables easy opening/closing by gripping with one hand.

User Safety

Conforming to the requirements of IEC standards, when using sterilising liquid the temperature when opening the cover is set to 65°C or less. Exhaust holes on the side and the cooling fan under the chamber, offer optimum cooling and sterilising efficiency.



Variable Applications

Our equipment is designed to meet good laboratory practice criteria in biotechnology, pharmaceutical, and clinical laboratories.



Safe of Use

For safe use of the product, precautions and operating instructions are given by voice guidance.



Reduced Cooling Time

A constant open/close interval for the exhaust process valve enables selection of the exhaust rate for steam inside the chamber to enable cooling in a shorter time.

MLS Portable Laboratory Autoclaves



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Microprocessor temperature control

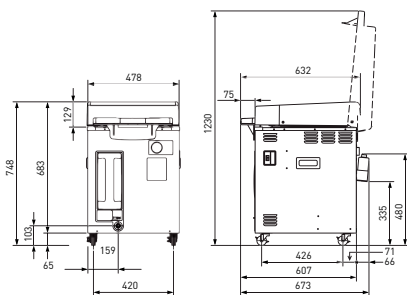
Sterilizing temperature is controlled to within $\pm 2^{\circ}\text{C}/-0^{\circ}\text{C}$ of the set temperature in the range of 115°C to 135°C .

Reduced Cooling Time

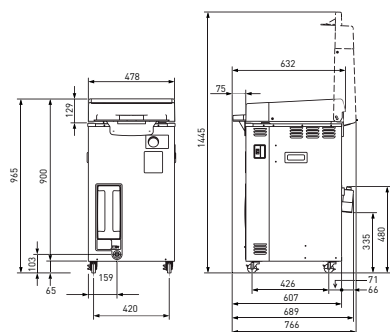
A constant open/close interval (with 5-step adjustment) for the exhaust process valve enables selection of the exhaust rate for steam inside the chamber to enable cooling in a shorter time while reducing exhaust time and preventing boiling over of sterilizing liquid.

Air vent control

Can be set to allow automatic release after sterilizing is completed.



MLS-3751L-PE - 50 litres



MLS-3781L-PE - 75 litres



PHC Europe B.V.

Model Number		MLS-3751L-PE	MLS-3781L-PE
External Dimensions (W x D x H) ¹⁾	mm	478 x 632 x 748	478 x 632 x 965
Internal Dimensions (diameter x depth)	Ø mm	370 x 415	370 x 630
Effective chamber height incl. recess in lid	mm	463	688
Volume	liters	50	75
Net Weight (approx)	kg	61	71
Performance			
Max. pressure	Mpa	0,240	
Sterilisation temperature	°C	115 ~ 135	
Culture media melting temperature	°C	60 ~ 114	
Keep warm temperature	°C	45 ~ 60	
Control			
Sterilisation timer	min.	1 to 300	
Melting timer	min.	1 to 300	
Keep warm timer	hrs.	72 hours fixed	
Exhaust control		Exhaust valve open temperature setting	
Construction			
Exterior material		Stainless steel (SUS 304)	
Interior material		Stainless steel plate	
Stainless steel baskets	qty	1 large & 1 small	2 large & 1 small
Exhaust tank		2 ltr polyethylene tank	
Pressure vessel		Small-scale pressure vessel	
Safety devices			
		Pressure safety valve • Over-temperature limiter • Over-pressure limiter • Anti-scorch limiter • Door interlock • Current fuse	

Appearance and specifications are subject to change without notice.

¹⁾ Exterior dimensions of main cabinet only, excluding handle and other external projections.

Equipped with 4 selectable courses and 3 customizable programs

Any of 4 courses can be selected according to the purpose of use, and 3 types of setting values can be stored for each course according to the usage conditions. The setting values (sterilizing temperature, sterilizing time, melting temperature, melting time, keep warm, exhaust temperature, exhaust rate) for each program can be easily changed for the user for easy use. Settable ranges are shown below.

Setting example

Cycle	Program	Steriliz. Temp.	Steriliz. Time	Heat-retent. Temp.
1. Sterilizing	1 - 1	121°C	27 min.	-
2. Sterilizing/Keep Warm	2 - 1	121°C	27 min.	50°C
3. Melting/Keep Warm	3 - 1	100°C	30 min.	50°C
4. Instrument Sterilizing	4 - 1	135°C	3 min.	-



1. Sterilizing

For water, culture media, reagents and other fluids. After completion and cooling to a selected temp., air is expelled automatically through the exhaust valve.

Sterilizing temp.: 115°C to 135°C

Timer: 1 to 300 min.

Exhaust temp.: 0°C to 45°C

2. Sterilizing/Keep Warm

After sterilizing culture media, reagents and other liquids, and cooling down naturally to a selected temp., air is expelled automatically from the exhaust valve. High temp. prevents solidifying.

Sterilizing temp.: 115°C to 135°C

Timer: 1 to 300 min.

Exhaust temp.: 0°C to 45°C

Incubation temp.: 45°C to 60°C

3. Melting/Keep Warm

To melt or keep culture media at a fixed temp. (This function is not for sterilizing but prevents solidifying.

Melting temp.: 60°C to 114°C

Timer: 0 to 300 min., 72 hrs.

Incubation temp.: 45°C to 60°C

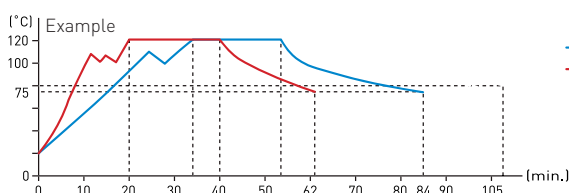
4. Sterilizing Unwrapped Instruments

For flasks, beakers, test tubes, other lab instruments. When completed, the exhaust valve opens and the temp. drops to 100°C . Thus, cool down period can be shortened. Suitable for equipment that can withstand sharp drops in pressure and for sterilizing waste.

Sterilizing temp.: 115°C to 135°C

Timer: 1 to 300 min.

Process operation



Instrument sterilization course
[Operating conditions: No load; Ambient temperature: 20°C ;
Sterilizing temperature: 121°C ; Sterilizing time: 20 min.

- Operating time varies depending on operating conditions.
- For liquid sterilization course, the operating time will be longer than for instrument sterilization course.



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.