

Стерилизаторы паровые, сосуды для гидролиза CARL ROTH CertoClav EL, CertoClav MultiControl 2, ROTILABO

Технические характеристики

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Steam sterilisation



Benchtop steam steriliser CertoClav EL series

CertoClav.

With aluminium chamber. For steam heating of substances and use in research & development.

Applications: preparation of nutrient media, as well as sterilisation of waste, utensils, bottles and instruments.

Features:

- Bayonet lock for lid lock
- Quadruple pressure safety: safety lock to prevent opening under pressure, antilock safety valve, pressure relief valve and pressure relief vent
- Pressure regulation by control valve
- Alternate versions with different temperature / pressure levels 125/140 °C or 115/121 °C are available

Technical specifications:

Art. No.	TL61.1	TL62.1	TL63.1	TL64.1
Type	EL 12L		EL 18L	
Vol.	12 l		18 l	
Temperature stage	125/140 °C	115/121 °C	125/140 °C	115/121 °C
Pressure level	1,4/2,7 bar	0,7/1,2 bar	1,4/2,7 bar	0,7/1,2 bar
Test pressure	4.1 bar			
Ventilation method	Flow method			
Inner height	230 mm		360 mm	
Ø Internal	240 mm			
Outer height	535 mm		665 mm	
Ø ext.	250 mm			
Diagonal	350 mm		465 mm	
Max. wire basket capacity	1 unit(s)		2 unit(s)	
Temperature measuring range	0 to +160 °C			
Temperature resolution	2 °C			
Pressure measuring range	0 to 4 bar			
Graduation	0,1 bar			
Exhaust steam valve outflow	Ø 10 mm			
Power consumption	1,900 W			
Weight	7 kg		9 kg	
Mains connection	230 V, 50/60 Hz			

Delivery incl. precision pressure gauge with maximum drag pointer, precision thermometer, one wire basket (for Order No. TL63.1 and TL64.1, 2 wire baskets can be incorporated, please order separately if required) and aluminium Instrument plate (Ø 225 mm, H 40 mm) with three feet as baseplate above the water.

Type	Vol. (l)	Temperature stage (°C)	Pressure level (bar)	Art. No.	Pack Qty.	
EL 12L	12	125/140	1,4/2,7	TL61.1	1 unit(s)	
EL 12L	12	115/121	0,7/1,2	TL62.1	1 unit(s)	
EL 18L	18	125/140	1,4/2,7	TL63.1	1 unit(s)	
EL 18L	18	115/121	0,7/1,2	TL64.1	1 unit(s)	

Accessories for benchtop steam sterilizers, CertoClav EL series

CertoClav.

Additional wire basket

For simple filling with sterilisable material. Inside Ø 225 mm, H 170 mm. Mesh width: ¼ inch. 2. wire basket for model EL 18L or replacement-wire basket for model EL 12L.

Designation	Art. No.	Pack Qty.	
Wire basket	TL65.1	1 unit(s)	

Seal service set

With cover and valve seal as well as seal for steam outlet cock, pressure gauge, steam outlet valve.

Designation	Art. No.	Pack Qty.	
Seal service set for EL series	TL66.1	1 unit(s)	



Steam sterilisation



Benchtop steam steriliser

CertoClav.

With stainless steel chamber. For culture media processing, as well as sterilisation of equipment and waste. No water connection required. Complementary to the large autoclaves. Space-saving positioning on the laboratory bench.

- Quadruple pressure safety: safety lock to prevent opening under pressure, antilock safety valve, pressure relief valve and pressure relief vent
- Lock the lid with one hand movement

Technical specifications:

Art. No.	CYH3.1	CYH4.1	CYH5.1
Type	Classic		Multicontrol 2
Vol.	18 l		
Temperature stage	125/140 °C	115/121 °C	RT-140 °C
Pressure level	1,4/2,7 bar	0,7/1,2 bar	max. 2,7 bar
Operation	Manual		LCD display
Timer	analogue (0 to 60 min or continuous operation)		digital (1 min to 14 d)
Process logging			PC-Software
Port			USB
Test pressure	4.1 bar		
Inner height	300 mm		
Ø Internal	260 mm		
Outer height	550 mm		
Ø ext.	270 mm		
Diagonal	424 mm		
Max. wire basket capacity	1 unit(s)		
Temperature measuring range	0 to +160 °C		+30 to +140 °C
Temperature resolution	2 °C		via LCD display
Pressure measuring range	0 to 4 bar		
Graduation	0,1 bar		
Exhaust steam valve outflow	Ø 10 mm		
Power consumption	1,300 W		
Weight	13 kg		
Mains connection	230 V, 50/60 Hz		

Model CertoClav Classic

Controlled by precision valves and thermostat. With timer. Models available with sterilisation temperature of 125/140 °C or 115/121 °C.

Delivery incl. steam outlet cock, precision thermometer and pressure gauge. Wire basket, please order separately.

Type	Vol. (l)	Temperature stage (°C)	Pressure level (bar)	Art. No.	Pack Qty.	
Classic	18	125/140	1,4/2,7	CYH3.1	1 unit(s)	
Classic	18	115/121	0,7/1,2	CYH4.1	1 unit(s)	

Model CertoClav MultiControl 2

With freely programmable control system (room temperature to 140 °C). Standard sterilisation programs preinstalled. USB port for connectivity to PC incl. basic software (to display process data).

Delivery incl. electronic control, precision pressure gauge, steam outlet cock and PC software. Please order wire basket separately.

Type	Vol. (l)	Temperature stage (°C)	Pressure level (bar)	Art. No.	Pack Qty.	
Multicontrol 2	18	RT-140	max. 2,7	CYH5.1	1 unit(s)	

Accessories for Benchtop steam steriliser CertoClav Classic and MultiControl 2

CertoClav.

Wire basket

For loading items to be autoclaved. Inside-Ø 250 mm, H 230 mm. Mesh width: ¼ inch.

Designation	Art. No.	Pack Qty.	
Wire basket	CYH6.1	1 unit(s)	

Seal service set

With cover and safety valve seal as well as seal for steam outlet cock, pressure gauge, steam outlet valve and control valve.

Designation	Art. No.	Pack Qty.	
Seal service set	CYH7.1	1 unit(s)	

Steam sterilisation



Horizontal benchtop autoclave CertoClav Vacuum Pro series

CertoClav.

For the sterilisation of liquids, solids and waste, e.g. instruments, hollow bodies, porous materials, textiles, plastics, etc.

- Chamber material: Stainless steel 1.4301
- Sterilisation temperature 105 to 134 °C, sterilisation pressure 0.2 to 2.1 bar
- 7" Touch-screen user interface
- 12 sterilisation programs
- Video step-by-step guide can be activated directly on the steriliser
- Integrated steam generator separated from the chamber
- Integrated water tank for distilled water (approx. 4 litres)
- Connections for report generation: USB, SD card, RS 232 and RS 485
- Network-enabled with Ethernet, LAN and Wi-Fi
- Flexible Pt1000 media temperature sensor to measure and regulate the temperature directly in the medium
- Loading capacity of bottles: 14 x 100 ml, 10 x 250 ml or 6 x 500 ml
- Tray set: middle drawer W 220 x L 430 mm, upper/lower drawer W 170 x L 430 mm

Technical specifications:

Art. No.	KAA6.1
Type	Vacuum Pro
Vol.	22 l
Temperature stage	105 - 134 °C
Pressure level	0,2 - 2,1 bar
Port	USB, SD card, RS 232 and RS 485
Ø Internal	250 mm
Inner depth	450 mm
Outer length	650 mm
Outer width	500 mm
Outer height	430 mm
Weight	63 kg
Mains connection	220 V, 50/60 Hz

Delivery incl. 3 drawers, drawer enclosure, handle, quick connect waste water hose and CertoCloud basic license. Please order base plate for bottles and flasks separately.

Type	Vol. (l)	Temperature stage (°C)	Pressure level (bar)	Art. No.	Pack Qty.	
Vacuum Pro	22	105 - 134	0,2 - 2,1	KAA6.1	1 unit(s)	



Accessories base plate for benchtop autoclave CertoClav Vacuum Pro series

CertoClav.

For flasks and bottles.

Designation	Art. No.	Pack Qty.	
Base plate	KAA7.1	1 unit(s)	



Hydrolyses and digestion vessel without insert ROTILABO®

ROTH SELECTION.

The energy of the microwave is virtually predestined for the digestion of small sample quantities. It affects only the contents of the vessel, not the container itself interactively. The liquid contents hereby heat up within seconds up to far above the boiling point.

ROTILABO® digestion vessels are made of isostatically compressed ultrapure TFM. TFM is a modified PTFE from Hoechst and it contains thermoplastic fluoroplastic components. A homogeneous, pore-free surface is produced. Disturbing residues from earlier digestions are thus avoided.

For samples up to max. 0.5 g, high dimension stability under pressure (max. 25 bar) and temperature loading (max. 160 °C). The sealing film prevents loss of volatile elements from the steam room; bursting film provides protection against impermissible high pressure. To protect the microwave, optional collection containers and a hose are available. If the sealing and rupture membrane bursts, collecting vessels can be used to drain and collect gases and fluids. Please order hose and collecting vessels separately.

Technical specifications:

Art. No.	E138.1	E139.1	E140.1	E141.1	E142.1
Vol.	5 ml	10 ml	20 ml	50 ml	100 ml
Inner height	32 mm	52 mm	60 mm	62 mm	110 mm
Ø Internal	15 mm	16 mm	22 mm	33 mm	35 mm
Temperature range	to +160 °C		to +150 °C		to +140 °C

Delivery incl. 10 clear foils made of PFA and 10 rupture membranes made of PTFE.

Vol. (ml)	Pressure (bar)	Art. No.	Pack Qty.	
5	25	E138.1	1 unit(s)	
10	25	E139.1	1 unit(s)	
20	20	E140.1	1 unit(s)	
50	20	E141.1	1 unit(s)	
100	15	E142.1	1 unit(s)	



Pressure digestion vessels



Digestion vessel ROTILABO® with inserts

ROTH SELECTION.

The energy of the microwave is virtually predestined for the digestion of small sample quantities. It affects only the contents of the vessel, not the container itself interactively. The liquid contents hereby heat up within seconds up to far above the boiling point.

With inserts (inliners) made of TFM. The easily replaceable inliners allow precise weighting of samples taken. The complete vessel is usually too heavy for the existing scales in many cases. Furthermore, it is possible to use a variety of inliners to perform various digestions with one single digestion vessel. To protect the microwave, optional collection containers and a hose are available. If the sealing and rupture membrane bursts, collecting vessels can be used to drain and collect gases and fluids. Please order hose and collecting vessels separately.

Delivery incl. 10 sealing membranes made of PFA and 10 rupture membranes made of PTFE.

Vol. (ml)	Art. No.	Pack Qty.	
10	E143.1	1 unit(s)	
20	E144.1	1 unit(s)	
50	E145.1	1 unit(s)	

Accessories for digestion vessels

ROTH SELECTION.

Inserts (Inliner), separate

Suitable for	Art. No.	Pack Qty.	
Tubes 20 ml	E147.1	1 unit(s)	
Vessels 10 ml	E146.1	1 unit(s)	
Vessels 50 ml	E148.1	1 unit(s)	

Sealing and rupture membranes for digestion vessels

Suitable for	Art. No.	Pack Qty.	
Tubes 5 ml	E149.1	10 unit(s)	
Tubes 10/20 ml	E150.1	10 unit(s)	
Vessels 50/100 ml	E151.1	10 unit(s)	



Collecting vessel

ROTH SELECTION.

Made of PFA. Suitable for ROTILABO® digestion vessels. Collecting vessels can be used to collect gases and fluids for protection of the microwave (if the sealing and rupture membrane bursts). Transparent and pore-free. With two connections for hose outside Ø 6.35 mm (1/4") in screw cap.

Technical specifications:

Art. No.	LT39.1	LT40.1
Vol.	120 ml	240 ml
Ø Internal	60 mm	
Outer height	74 mm	116 mm
Ø ext.	66 mm	

Delivery without FEP hose, please order separately.

Vol. (ml)	Art. No.	Pack Qty.	
120	LT39.1	1 unit(s)	
240	LT40.1	1 unit(s)	

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