

CertoClav tabletop autoclaves

Its versatility and compact construction make autoclaves especially interesting for small labs or they can be used as an optimal addition to a large autoclave.

CertoClav

All models: Low-maintenance. No water connection required. Compliant with 2014/35/EU Low Voltage Directive, 2014/30/EU EMV Directive, 2011/65/EU Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

Vertical models: Class N steam sterilisers. Venting procedure: free steam flow process or fractional flow procedure. A heater is integrated in the bottom of the chamber, but it is not exposed. Therefore, it cannot calcify. The autoclaves are easy to transport and location independent. All you need is a power supply and a mixture of tap water and demineralised water. Safeguarded by a multiple safety system. In aluminum models, it consists of an overpressure valve, a pressure valve, a safety lock inside the lid to prevent opening under pressure and the overpressure safety cavity. In stainless steel models, it consists of an overpressure valve, a pressure valve, a safety lock inside the lid to prevent opening under pressure and a two-bimetal safeguard to prevent overheating of the device.

1 Tabletop autoclaves CertoClav EL

The vertical laboratory autoclave with valve control is suitable for sterilisation of unpackaged solids without hollow bodies, liquids, bottles, instruments, synthetic materials, food preservation, culture media preparation and waste. A precision manometer with drag pointer and a precision thermometer ensure that operations and processes are precise. This autoclave is available in two versions, each with two temperature levels. Pressure control via valve, temperature control via thermostat. Pressure valves are not interchangeable, because the thermostat of the device is perfectly adapted and calibrated to the valve.

CertoClav

Scope of supply: Autoclave, stable instrument panel with 3 feeds, minimum water level indicator, power cable

Specifications	EL 12 // EL 18
Chamber diameter:	240 mm
Chamber depth:	260 // 390 mm
Air evacuation:	Free steam flow process
Chamber material:	Aluminium
Operating pressure:	2.7 bar
Heating capacity:	1900 W
Power supply:	230 V ±10 %/50 - 60 Hz

Type	Capacity Litres	Working Temp. range °C	Weight kg	PK	Cat. No.
EL 12	12	125 / 140	6.2	1	9.842 013
EL 12	12	115 / 121	6.2	1	6.243 349
EL 18	18	125 / 140	7.6	1	9.842 014
EL 18	18	115 / 121	7.6	1	6.232 206

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2 Tabletop autoclaves CertoClav Classic

CertoClav Classic is the result of further development of the EL, but made of corrosion resistant, electropolished stainless steel. Suitable for sterilisation of unpackaged solids without hollow bodies, liquids, bottles, instruments, synthetic materials, food preservation, culture media preparation and waste. A timer is integrated.

CertoClav

Scope of supply: Autoclave, stable instrument panel with 3 feeds, minimum water level indicator, power cable

Specifications	260 mm
Chamber diameter:	350 mm
Chamber depth:	Free steam flow process
Air evacuation:	Stainless steel
Chamber material:	2.7 bar
Operating pressure:	1300 W
Heating capacity:	230 V ±10 %/50 - 60 Hz
Power supply:	

Type	Capacity Litres	Working Temp. range °C	Weight kg	PK	Cat. No.
Classic	18	125 / 140	8.8	1	9.842 028
Classic	18	115 / 121	8.8	1	9.842 029

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9.842 030

Laboratory autoclaves CertoClav MultiControl 2

The PT100 sensor-controlled, vertical laboratory autoclave is suitable for extended/long-term cycles, material tests, HAST test, pressure vessel test und ICP - TM 650, food preservation, culture media preparation, sterilisation of waste, unpackaged solids without hollow bodies, liquids, bottles, instruments, synthetic materials and rubber. Basic version of PC software for data monitoring is included. With this software, you can only set single-step programs. For multi-step programs, PC software professional version is required.

CertoClav

The CertoClav MultiControl 2 Touch is additionally equipped with a 7-inch robust high-resolution tablet. The operating steps are explained with videos on the screen.

- Programmable from 1 minute to 30 days and from room temperature to 140 °C
- Automated process control and error detection
- USB port
- Printer port (RS232) for printing sterilisation protocols

Scope of supply:

MultiControl 2: Autoclave, stable instrument panel with 3 feeds and minimum water level indicator, power cable, MC2 controller

MultiControl 2 touch: Autoclave, stable instrument panel with 3 feeds and minimum water level indicator, power cable, MC2 controller, tablet

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6.268 833

Specifications

Chamber diameter:	260 mm
Chamber depth:	350 mm
Air evacuation:	Fractional flow procedure
Chamber material:	Stainless steel 316L
Operating pressure:	2.7 bar
Heating capacity:	1300 W
Power supply:	230 V ±10 %/50 - 60 Hz

Type	Capacity Litres	Working Temp. range °C	Weight kg	PK	Cat. No.
MultiControl 2	18	20 ... 140	9.5	1	9.842 030 1
MultiControl 2 Touch	18	20 ... 140	10.5	1	6.268 833 2

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Laboratory autoclaves CertoClav Connect

The fully automated, vertical laboratory autoclave is suitable for extended/ long- term cycles, material tests, HAST Test, pressure vessel test, ICP - TM 650, food preservation, culture media preparation, sterilisation of waste, unpackaged solids without hollow bodies, liquids, bottles, instruments, synthetic materials and rubber. It is operated via of a 7-inch high-resolution tablet. All operating steps are explained with videos directly on the tablet. Compliance with GLP requirements through automatic documentation of users and cycles. Process protocols are stored in the CertoCloud for 10 years. Integration into laboratory data systems possible. For autoclaving liquids, a PT100-media sensor is optionally available.

CertoClav

Scope of supply: Autoclave, stable instrument panel with 3 feeds, minimum water level indicator, power cable, tablet

Specifications

Chamber diameter:	260 mm
Chamber depth:	350 mm
Air evacuation:	Fractional flow procedure
Chamber material:	Stainless steel 316L
Operating pressure:	2.7 bar
Heating capacity:	1300 W
Power supply:	230 V ±10 %/50 - 60 Hz

Type	Capacity Litres	Working Temp. range °C	Weight kg	PK	Cat. No.
Connect	18	20 ... 140	16	1	9.842 031
Media sensor, PT100 *				1	9.842 037

* only available in conjunction with a new device

1 Laboratory autoclaves CertoClav Cibus



The fully automatic, freely programmable, vertical laboratory autoclave is suitable for sterilisation of food, beverages, culture media and demineralised water in sealed bottles. For autoclaving liquids, a PT100-media sensor is integrated. It is operated via of a 7-inch high-resolution tablet. All operations are explained with videos directly on the tablet. Compliance with GLP requirements through automatic documentation of users and cycles. Process protocols are stored in the CertoCloud for 10 years. Integration into laboratory data systems possible. Optimised sterilisation time due to active rapid cooling. The autoclave is equipped with support pressure.

Scope of supply: Autoclave, stable instrument panel with 3 feeds, minimum water level indicator, power cable, tablet



Specifications

Chamber diameter:	260 mm
Chamber depth:	350 mm
Air evacuation:	Fractional flow procedure
Chamber material:	Stainless steel 316L
Operating pressure:	2.7 bar
Heating capacity:	1300 W
Power supply:	230 V ±10 %/50 - 60 Hz

Type	Capacity Litres	Working Temp. range °C	PK	Cat. No.
Cibus	18	25 ... 140	1	6.311 937

2 Tabletop autoclaves CertoClav Vacuum Pro series



Due to the intelligent combination of vacuum, pressure and steam, the autoclaves are suitable for liquids and solids of all kinds. The additional media sensor guarantees a complete sterilisation of liquids such as culture media. Solids of all kinds and hollow materials are optimally sterilised with the help of a vacuum pump. The preheatable chamber, cooling-ventilation and vacuum pump guarantees short cycle times from 20 minutes including drying time.

- 7-inch touchscreen
- Including free CertoCloud software for all protocols and programs
- Remote maintenance, alarm system via PC, tablet or smartphone
- Notification by e-mail and SMS
- 12 customisable programs (45 l version with 8 customisable programs)
- Interfaces: USB, WiFi, Ethernet, Bluetooth, SD-Card
- Integrated documentation (GMP/GLP conform)
- Standard interfaces for bar scanner, protocol and label printer

Scope of supply: Autoclave, tray set, power cable, touchscreen



6.288 411

Specifications

Temperaturrange:	105 ... 134 °C
Cooling system:	Air venting
Chamber material:	Stainless steel 304L
Operating pressure:	2.3 bar
Heater power:	2400 W
Power supply:	220 V ±10 %/50 - 60 Hz



9.842 009

Type	Capacity Litres	Int. diam. mm	Int. depth mm	External dimensions (W x D x H) mm	Weight kg	PK	Cat. No.
Vac Pro 12	12	200	360	500 x 610 x 430	51	1	6.287 463
Vac Pro 22	22	250	450	500 x 650 x 430	55	1	6.288 411 2
Vac Pro 45	45	319	617	640 x 840 x 560	120	1	9.842 009 3

11. Cleaning and sterilisation

Steam sterilisers - Autoclaves/Instruments

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1 Accessories for Autoclaves, CertoClav

Service kit 1: with lid gasket, valve gasket, gasket for exhaust cock and manometer, steam valve

CertoClav

Service kit 2: with lid gasket, control valve gasket, seals for exhaust cock and pressure gauge, steam valve and safety valve

Service kit 3: with door gasket, safety valve and bacteria filter

Description	For	PK	Cat. No.
Exhaust steam container with hose	EL, Classic, MultiControl, MultiControl 2	1	6.313 654
Exhaust hose	EL, Classic, MultiControl, MultiControl 2	1	4.668 551
Exhaust air filter incl. exhaust container and exhaust hose	MultiControl, MultiControl 2	1	6.266 073
Bacteria filter	Vac Pro 12, Vac Pro 22, Cibus Pro	1	6.311 844
Barcode scanner	Vac Pro 12 - 45, Cibus Pro	1	6.273 378
CertoCloud premium licence	MultiControl 2, Connect, Cibus, Cibus Pro, Vac Pro 12 - 45	1	7.910 770
CertoServer	MultiControl 2, Connect, Cibus, Cibus Pro, Vac Pro 12 - 45	1	6.313 656
Water distiller	All models	1	6.272 938
Wire basket with drip tray	Vac Pro 12	1	6.313 657
Wire basket with drip tray	Vac Pro 22, Cibus Pro	1	6.313 658
Wire basket with drip tray	Vac Pro 45	1	6.313 659
Wire basket with handle, Ø 23 x 17 cm	EL, MultiControl	1	9.842 025
Wire basket with handle, Ø 25 x 23 cm	Classic, MultiControl 2, Connect, Cibus	1	9.842 035
Replacement filter cartridge	Exhaust air filter	1	6.313 655
Label printer	Vac Pro 12 - 45, Cibus Pro	1	6.313 660
PC software professional version	MultiControl, MultiControl 2	1	9.842 038
Log printer	MultiControl, MultiControl 2, Vac Pro 12 - 45, Cibus Pro	1	9.842 033
Service set 1	EL, MultiControl	1	9.842 036
Service set 2	Classic, MultiControl 2, Connect, Cibus	1	9.842 020
Service set 3	Vac Pro 12, Vac Pro 22, Cibus Pro	1	6.272 936
Thermal direct labels	Label printer	1	6.313 994
Thermal paper	Log printer	1	6.288 989

Digital horizontal autoclave Type AH

This autoclave is microprocessor controlled and monitored with 10 sterilisation programmes of which 4 are fixed and 6 are freely selectable and has bacteriological filters included by default.

Raypa

- Operating temperature range 100 °C to 134 °C
- On request, also available with B Class
- RS 232 interface
- Fully automatic functions
- With water reservoir, pre-vacuum and drying
- Case and lid shrouding are AISI 304 stainless steel
- Sterilisation chamber, lid and sealing system are AISI 316 stainless steel
- Electrical heating with protected heating elements
- Safety pressure valve
- Safety thermostat
- Automatic steam controlled by Touch Screen microprocessor
- Manual valves for emptying the sterilisation chamber and for draining steam
- Equipped with mesh stand on the chamber base and trays
- Supply requirements: 230 V 16 A single phase

Type	Capacity Litres	Chamber diam. x depth mm	Width mm	Length mm	Height mm	Rating W	PK	Cat. No.
AH-21 L	21	250 x 430	680	590	425	2000	1	9.851 898
AHS-50 DRY	50	400 x 400	760	780	630	2000	1	6.267 579
AHS-75 DRY	75	400 x 600	760	980	630	3200	1	9.851 888

On request also available counter-pressure, steam generator or without vacuum and drying.

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6.267 579

Digital vertical autoclaves, AES series

These autoclaves are microprocessor controlled and monitored with 10 sterilisation programmes of which 4 are fixed and 6 are freely programmable.

- Operating temperature range 100 °C to 134 °C
- On request also available with with vacuum pump and steam generator
- Agar modus (40 °C to 80 °C)
- RS 232 interface
- Timer
- Programmable auto-start (24 h)
- Fully automatic functions
- Case and lid shrouding are AISI 304 stainless steel
- Sterilisation chamber, lid and sealing system are AISI 316 stainless steel
- Electrical heating with protected heating elements in the interior of the chamber
- Safety pressure valve
- Safety thermostat
- Automatic steam controlled by microprocessor
- Manual valves for emptying the sterilisation chamber and for draining steam

- Supply requirements:

AES-12 and AES-75: 230 V 16 A single phase

AES-110 and AES-150: 400 V + Neutral (3-phase)

Raypa

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9.851 894

Type	Capacity	Chamber diam. x depth	Width	Length	Height	Rating	PK	Cat. No.
	Litres							
AES-12	12	250 x 270	490	500	650	1000	1	9.851 893
AES-28	28	300 x 400	510	560	1120	2000	1	9.851 894 1
AES-50	50	300 x 700	510	560	1300	3200	1	6.267 578
AES-75	75	400 x 600	620	730	1190	3200	1	9.851 895
AES-110	110	400 x 850	620	730	1440	4500	1	9.851 896
AES-150	150	500 x 750	760	850	1400	6000	1	9.851 897

Accessory baskets for Digital vertical autoclaves, AES series

Type	For	Diam.	Height	Baskets per autoclave	PK	Cat. No.
		mm	mm			
Mesh basket	AES 12	220	200	1	1	6.268 955
Mesh basket	AES 28 - 50	270	200	2 / 3	1	6.270 951
Mesh basket	AES 75 - 110	370	280	2 / 3	1	6.261 937 2
Mesh basket	AES 150	470	250	2	1	6.260 676
Solid basket	AES 28 - 50	280	200	2 / 3	1	9.851 876
Solid basket	AES 75 - 110	380	260	2 / 3	1	9.851 877
Solid basket	AES 150	475	360	2	1	9.851 879

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11. Cleaning and sterilisation

Steam sterilisers - Autoclaves/Instruments



TLV-50

1 2 Smart vertical autoclaves, TLV series

NEW

Raypa

These autoclaves are microprocessor controlled and monitored with 50 sterilisation programmes and comes with bacteriological filters included by default.

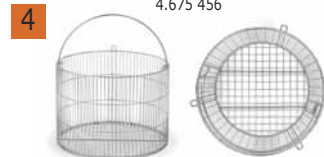
- Operating temperature range 100 °C to 140 °C
- With with vacuum pump and steam generator
- Maximum working pressure 2.6 bar (37psi)
- RS 232 interface, USB and WiFi
- Timer
- Fully automatic functions
- PT 100 temperature sensor
- Case and lid shrouding, stainless steel
- Sterilisation chamber, lid and sealing system, stainless steel
- Electrical heating with protected heating elements in the interior of the chamber
- Safety pressure valve
- Safety thermostat
- Automatic steam controlled by microprocessor
- Pressure gauge
- 4 casters (with brakes in two of them)
- 7" capacitive colour touch screen
- Power Supply: 230V 50/60 Hz
- Remote maintenance and diagnosis via cloud
- Remote operation monitoring via cloud

TLV: Basic
 TLV-FA: with Air Ballast and Fast Cooling
 TLV-PD: with Super Drying

Type	Capacity Litres	Chamber diam. x depth mm	Dimensions (W x D x H) mm	Rating		PK	Cat. No.
				W	kg		
TLV-50	58	400 x 450	610 x 870 x 1000	3600	140	1	4.672 183
TLV-75	83	400 x 650	610 x 870 x 1080	3600	150	1	4.672 184
TLV-50FA	58	400 x 450	610 x 870 x 1000	3600	140	1	4.672 185
TLV-75FA	83	400 x 650	610 x 870 x 1080	3600	150	1	4.672 186
TLV-50PD	58	400 x 450	610 x 870 x 1000	3600	140	1	4.672 187
TLV-75PD	83	400 x 650	610 x 870 x 1080	3600	150	1	4.672 188



4.675 456



4.675 457

Accessory baskets for Digital vertical autoclaves, TLV series

NEW

Raypa

Type	For	Diam. mm	Height mm	PK	Cat. No.
Solid basket	TLV Series	370	200	1	4.675 456 3
Mesh basket	TLV Series	370	200	1	4.675 457 4



6.265 153



6.270 012

Thermoprinter for automatic autoclaves

Built-in printer IT:

Raypa

Must be installed ex factory, please order with autoclave.
 For Models: AES-12, AES-28, AES-50, AES-75, AES-110, AES-150, AE-28-DRY, AE-50-DRY, AE-75-DRY, AE-110-DRY, AE-150-DRY, AHS-50-N, AHS-75-N, AH-21-L, AHS-50-DRY, AHS-75-DRY

Built-in printer IT/TS:

Must be installed ex factory, please order with autoclave.
 For Models: AE-50-B, AE-75-B, AE-110-B, AE-150-B, AH-21-B, AHS-50-B, AHS-75-B, AE-20-MP, AE-40-MP, AE-60-MP, AE-80-MP, AE-100-MP

Table top printer ITS:

Print program number, cycle number, temperature, date and hour of the run. Error messages are also printed.
 With RS 232 interface. Only for AES-12/AES-28/AES-50/AES-75/AES-110/AES-150/DRY

Built-in printer IT/TLV

Must be installed ex factory, please order with autoclave.
 For TLV/Series

Type	PK	Cat. No.
Thermoprinter IT	1	6.265 153 5
Thermoprinter IT/TS	1	4.672 193
Thermoprinter ITS	1	6.270 012 6
Thermoprinter IT/TLV	1	4.675 455

1 Steam sterilizers (autoclaves), HG series

HMC-EUROPE

- Certified according to the Pressure Equipment Directive 2014/68/EU
- Available in 4 sizes with 50, 80, 113, 133 liters of effective usable volume
- Innovative locking system with motorized lid including pressure and temperature monitoring
- Steam generation in the chamber
- High energy efficiency and long service life
- Rapid cooling for short cooling times
- Also available with flexible temperature sensor for the sterilization of liquids
- Timer function and 4 program groups with 3 sub-groups each, including night and dissolution program, adjustments for customized programs are always possible
- No water/waste-water installation required
- Castors for mobile use
- Easy to clean plastic surface with rounded edges in contact areas (no burns or injuries).
- Electrical, mechanical and constructional factors guarantee the highest level of quality and user protection
- The accessories make it possible to configure the autoclave according to your wishes
- Exhaust air filters for laboratories of safety level S2 and higher are also available

Type	Capacity Litres	External dimensions (W x D x H) mm	Chamber Dimensions (diam. x H) mm	Rating W	Working Temp. range °C	Pressure bar	Weight kg	PK	Cat. No.
HG 50	50	455 x 691 x 890	364 x 482	3000	60 ... 135	2.5	62	1	9.842 410
HG 80	76	455 x 691 x 1030	364 x 730	3800	60 ... 135	2.5	73	1	9.842 411
HG 113	108	686 x 870 x 930	500 x 552	5800	60 ... 135	2.5	137	1	9.842 412
HG 133	129	686 x 870 x 1034	500 x 656	5800	60 ... 135	2.5	145	1	9.842 413

2 Accessories for HG series steam sterilisers

HMC-EUROPE

Description	Dimensions (dia. x H) mm	PK	Cat. No.
Flexible temperature sensor		1	9.842 420
Built-in printer HG		1	6.251 590
Exhaust air filter for sterilisation		1	9.842 422
Lifting equipment Loadmaster for HG 113/133		1	6.266 420
Stainless steel sterilising basket	340 x 220	1	9.842 423
Stainless steel sterilising basket with bottom	340 x 220	1	9.842 424
Stainless steel sterilising can	331 x 185	1	9.842 425
Automatic water supply		1	9.842 421
Charging basket A for HG 113/133	482 x 215	1	6.266 417
Charging basket A for HG 113/133, closed bottom	482 x 215	1	6.259 903
Charging basket B for HG 113/133	474 x 265	1	6.266 418
Charging basket B for HG 113/133, closed bottom	474 x 265	1	6.266 419
Charging basket C for HG 113/133	475 x 310	1	7.980 484
Charging basket C for HG 113/133, closed bottom	475 x 310	1	7.980 485

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1 Steam sterilizers (autoclaves), HV series

Tireless, durable and ingeniously simple

HMC-EUROPE

- Certified according to the Pressure Equipment Directive 2014/68/EU
- Available in 4 sizes with 25, 50, 85 and 110 liters of effective usable volume
- Simple, reliable and with a long service life, your perfect choice for standard tasks
- Optionally available with flexible temperature sensor for the sterilization of liquids
- For all devices up to 110 liters only a single-phase power supply (220/240 V; 50/60 Hz) is required
- Timer function and 3 program groups with a max. of 6 programs including dissolution program, adaptations for customized programs are always possible
- No installation to a feed water supply required
- Castors for mobile use
- Easy to clean plastic surface with rounded edges in contact areas (no burns or injuries)
- Electrical, mechanical and constructional factors guarantee the highest level of quality and user protection
- The accessories make it possible to configure the autoclave according to your wishes
- Exhaust air filters for laboratories of safety level S2 and higher are optionally available

Type	Capacity Litres	External dimensions (W x D x H) mm	Internal dimensions (Ø x H) mm	Rating W	Working Temp. range °C	Weight kg	PK	Cat. No.
HV-L25	25	480 x 460 x 950	240 x 550	1500	60 ... 126	41	1	7.980 025
HV-L50	50	540 x 530 x 1040	300 x 710	2000	60 ... 135	57	1	6.232 481
HV-L85	85	660 x 650 x 1000	420 x 615	3000	60 ... 128	71	1	9.842 418
HV-L110	110	660 x 650 x 1180	420 x 795	4000	60 ... 123	81	1	6.254 337

2 Accessories for HV series steam sterilisers

HMC-EUROPE

Description	Internal dimensions (Ø x H) mm	Baskets per autoclave	PK	Cat. No.
Flexible temperature sensor			1	7.980 024
Integrated printer			1	9.842 427
Air cooling			1	9.842 428
Exhaust-air filtration			1	9.842 429
Feed water autm.			1	6.251 161
Feed water HG 113/133			1	6.272 774
Stainless steel sterilising basket for HV-25	210 x 250	2	1	7.980 027
Stainless steel sterilising basket with bottom for HV-25	210 x 250	2	1	9.842 430
Stainless steel sterilising can for HV-25	210 x 255	2	1	9.842 431
Stainless steel sterilising basket for HV-50	270 x 220	3	1	6.232 482
Stainless steel sterilising basket with bottom for HV-50	270 x 220	3	1	9.842 432
Stainless steel sterilising can for HV-50	280 x 220	3	1	9.842 433
Stainless steel sterilising can for HV-85	390 x 285	2	1	6.259 905
Stainless steel sterilising basket with bottom for HV-85	390 x 290	2	1	6.259 908
Stainless steel sterilising basket for HV-85	390 x 290	2	1	6.264 959
Stainless steel sterilising can for HV-110	390 x 285	2	1	6.254 338
Stainless steel sterilising basket for HV-110	390 x 380	2	1	6.259 904
Stainless steel sterilising basket with bottom for HV-110	390 x 380	2	1	6.259 909

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11. Cleaning and sterilisation

Steam sterilisers - Autoclaves/Instruments

Benchtop-Autoclaves HMT FA/-MA and -MB series

HMT 230/260 FA - for standard tasks:

- Certified according to regulation 93/42/EEC
- Available in 2 sizes with a volume of 16 or 24 liters
- 9 sterilization programs, fully automatic: 121 °C wrapped/unwrapped solid items; with or without drying, 135 °C wrapped/unwrapped solid items; with or without drying, Liquid program: 121 °C, 40 min.
- Controlled by a microprocessor
- Simple digital display
- Water tank
- Electromechanical overheating protection
- Safety valve
- Mechanical pressure-dependent door lock
- Reset/emergency button
- Easy maintenance

HMC-EUROPE



7.980 101

HMT 230/260/300 MA - versatile table-top autoclave:

- Certified according to regulation 93/42/EEC
- Available in 3 sizes with a volume of 16, 24 or 40 liters
- Powerful integrated vacuum pump, an essential feature for sterilizing tubes and hollow components
- 7 sterilization programs, fully automatic: 121 °C wrapped/unwrapped (vacuum), 134 °C wrapped/unwrapped (vacuum), Liquid and prion programs, Bowie-Dick test
- Controlled by a microprocessor
- Progress indicator
- Internal water tank
- Electromechanical overheating protection
- Electronic overpressure protection
- Pressure safety valve
- Mechanical pressure-dependent door lock
- Reset/emergency button
- Easy maintenance

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4.655 164

HMT 260/300 MB - premium table-top autoclave:

- Certified according to regulation 93/42/EEC
- Available in 2 sizes with a volume of 24 or 40 liters
- Powerful integrated vacuum pump, an essential feature for sterilizing tubes and hollow components
- 5 sterilization programs, fully automatic: Sterilization of wrapped items: 121 °C - 30 min.; 134 °C - 15 min., Sterilization of unwrapped items: 121 °C - 15 min.; 134 °C - 4 min., Individual temperature selection from 105 to 135 °C, Preset prion program
- 3 test programs: leakage test, helix test, Bowie-Dick test
- Controlled by a microprocessor
- Easy operation with a LCD display
- Documentation/data storage via SD card and printer
- Drying program, 1- 60 minutes
- 4 liter water tank, to be filled manually or automatically (purified water)
- Various safety features, e.g. safety valve or pressure-dependent door lock
- With modern design, easy maintenance

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6.287 544

Type	Capacity	Chamber diam. x depth	Width	Length	Height	Rating	PK	Cat. No.
	Litres							
HMT 230FA	16	230 x 410	522	594	410	1.9	1	6.237 578
HMT 260FA	24	260 x 450	533	655	442	2.4	1	7.980 101 1
HMT 230 MA	16	230 x 410	522	594	410	1.9	1	4.655 160
HMT 260 MA	24	260 x 450	533	655	442	2.4	1	4.655 162
HMT 300 MA	40	300 x 570	620	900	489	3.2	1	4.655 164 2
HMT 260MB	24	260 x 450	553	665	440	2.7	1	4.655 166
HMT 300MB	40	300 x 570	620	766	489	2.3	1	6.287 544 3

We can supply this
manufacturer's
 whole
product range !



Labor- & Sterilisationstechnik

1


1 Autoclave thermometer

Durable bi-metal thermometer with a maximum registering pointer (red), moved up by the temperature measuring pointer, (black), to indicate the highest temperature achieved, and remains there until it is manually reset.

Bel-Art Products

- Traceable to NIST Standard
- Threaded connection (1/4" NPT), screws directly into in-line processes, can be used to mount thermometer on included stand
- Waterproof and pressurised, withstands autoclave cycles and has a removable protective silicone sleeve to prevent moisture from making contact with the dial
- Constructed from 304 stainless steel with a glass lens; withstands pressure, high temperatures and rust
- Tested and inspected in the USA
- Includes a multi-language (English, French, German, Italian, Portuguese, and Spanish) Statement of Accuracy and instructions
- Available as an option with an individual Thermometer Calibration Report

Specifications

Measuring range: -20 to +150 °C
 Probe length: 50 mm

Description	PK	Cat. No.
Autoclave thermometer	1	6.287 577

2


2 Biological Indicators Attest™ for Control of Steam Autoclaves

Biological control involves the use of indicators, which check whether all microorganisms were killed during the sterilisation process. The bio-indicators are unique, as they directly indicate how many microbial spores have actually been killed. Thanks to the reliability and quality of the information, the regular use of a bio-indicator can lead to an improvement in the performance of the sterilisation process and thus to better results.

3M Deutschland

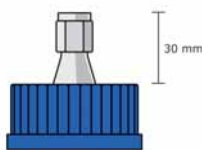
Features:

- No external laboratory is required for performance evaluation
- Easy handling
- Reasonable to use after repairs or maintenance of autoclaves

Application:

- Program 3.5 minutes, holding time at 121 °C or 134 °C
- After sterilisation, break the vial in order to bring the nutrient solution into contact with the spore strip
- Results in 48 hours
- Meets EN ISO 11138 standard

Type	PK	Cat. No.
Biological Indicators Attest™ for steam autoclaves, brown cap	100	6.089 578

3


3 4 Screw Cap GL 45 with temperature probe holder, DURAN®

The DURAN® temperature probe holder GL 45 consists of a stainless steel holder that is permanently fitted into a blue DURAN® polypropylene GL 45 cap. The holder will accept the 6.0 mm metal temperature measuring probes that are commonly used in laboratory autoclaves and sterilizers.

DWK Life Sciences

Applications

- Routine sterilization /autoclave cycles
- "Loaded Chamber heat penetration" tests during Performance Qualification (PQ)
- Performance tests after autoclave maintenance or repair

Features

- Usable with DURAN® original GL 45 laboratory bottles (1000 ml or less).
- The depth of the probe can be adjusted to suit the bottle size
- Adjustable ferrule suitable for 6.0 mm diameter probes
- Retrace code for product traceability and downloadable certificate
- Easy positioning of the sensor in the middle of the bottle

4


Type	PK	Cat. No.
Screw Cap GL 45	1	9.072 178

1 2 Screw Cap GL 45 thermocouple holder, DURAN®

The DURAN® Screw Cap GL 45 thermocouple holder consists of a holder fitted into a blue DURAN® polypropylene GL 45 cap that accepts up to three separate thermocouple wires used in autoclaves or sterilizers.

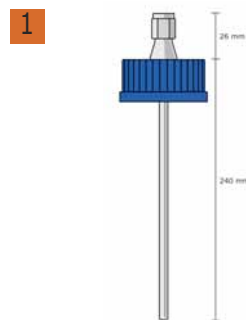
DWK Life Sciences

Applications

- "Loaded Chamber heat penetration" tests during Performance Qualification (PQ)
- Routine sterilization /autoclave cycles
- Performance tests after autoclave maintenance or repair

Features

- Usable with DURAN® original GL 45 laboratory bottles (1000 ml or less).
- The 240 mm PTFE tube may be cut to length
- Suitable for holding up to three separate thermocouple wires (Conductor sizes 1/0.3 mm, 1/0.5 mm or 7/0.2 mm)
- Retrace code for product traceability and downloadable certificate



Description	PK	Cat. No.
Screw Cap GL 45 thermocouple holder	1	9.072 179

3 Autoclave deodorant Anabac®

Laboratories are very concerned about hygiene, cleanliness and comfort in the workplace. Try Anabac® autoclave deodorant balls to improve the working environment in the laboratory. These autoclave deodorant balls bring a discrete scent that speaks of cleanliness.

interscience

You can find ordering information for all articles described above as well as other articles online.



Warning

H phrases: H317|H319|H412

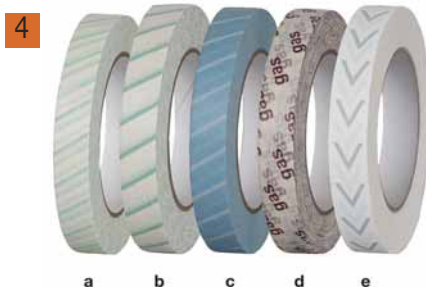


Type	Description	PK	Cat. No.
Peach	Peach fragrance	100	7.626 766

4 Indicator tape for steam, hot air and gas sterilisation

Crepe paper, adhesive. With indicator. Colour changes according to DIN EN ISO 11140-1. Rolls of 50 m.

With	colour change	Width mm	Figure	PK	Cat. No.
Steam indicator, lead free	green / black	18	a	1	9.140 787
Steam indicator, lead free	green / black	24	a	1	9.140 788
Steam indicator	green / black	19	b	1	9.140 784
Steam indicator	white / black	25	b	1	9.140 789
Steam indicator, strongly adhesive, for non-woven fabric	white / black	19	c	1	9.140 790
Steam indicator, strongly adhesive, for non-woven fabric	white / black	25	c	1	9.140 791
Ethylene oxide indicator	red / green	19	d	1	9.140 792
Hot air indicator	green / brown	19	e	1	6.240 223



➔ Disposal bags - please see page 258.



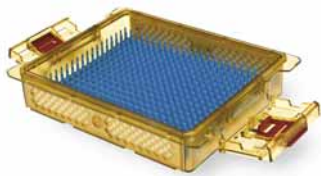
1 polySteribox® sterilisation containers with permanent filter

The polySteribox® from Ritter Medical for sterilisation of instruments, storage and transportation of sterile goods is a secure solution in line with the requirements of validated processes in sterile goods provision. The polySteribox® is available in 4 different standardized sizes (SH, M, L and XL) which are suitable for all current sterilisation automats. polySteribox® is produced out of a transparent, dimensionally stable and high temperature resistant (up to 150 degrees celcius) material. It is therefore suitable for autoclave vacuum sterilisation at 121°C or 134°C depending on the sterilisation method recommended by relevant authorities such as the Robert Koch Institute in Germany. In addition the polySteribox® can be used for plasma sterilisation (STERRAD®) as well as for gas sterilisation (formaldehyde and ethylene oxide) at a maximum of 65°C. Lid and bottom close hermetically and include a built-in bacteria barrier. The patented interlocking system is compatible within all different models and prevents from accidental opening of the box. The boxes are space-saving and easy to stack, therefore they are well suited for storage of sterile goods.

Ritter

Type	External dimensions (W x D x H) mm	Internal dimensions (W x D x H) mm	PK	Cat. No.
polySteribox® SH	208 x 111 x 54	177 x 76 x 45	1	6.267 058
polySteribox® M	184 x 144 x 59	155 x 123 x 32	1	6.267 059
polysteribox® L	290 x 183 x 74	261 x 164 x 65	1	6.263 116
polySteribox® XL	498 x 118 x 63	465 x 95 x 55	1	6.267 061

2



2 3 Accessories for polySteribox®

Ritter

Description	PK	Cat. No.
Filter set L/XL	1	9.284 283
Silicone positioning mat for box S, SH	1	9.284 288
Silicone positioning mat for box L	1	9.284 292
Silicone positioning mat for box M	1	9.284 293
Safety seals	1000	9.284 285
Sterilisation seal for box SH, M, L, XL	1000	9.284 287
Stainer for the Polysteribox L	1	9.284 294
Stainer for the Polysteribox XL	1	6.266 241

3



Multiparameter Indicator 3M™ Comply™

Class 4 indicators with endpoint reaction. With chemical coating, change their colour when the sterilization cycle is successfully completed. Indicator strips for steam sterilization or ethylene oxide sterilization.

3M Deutschland

- Steam sterilization colour change from yellow to black
- EO sterilization colour change from red to green
- Economical due to the possibility of cutting in half
- Complies with EN ISO 11140-1

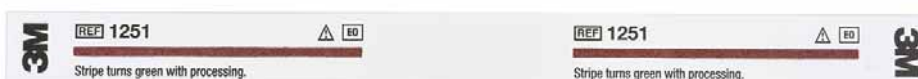
Description	PK	Cat. No.
Comply™ 1250 chemical indicator strips	240	7.970 699 4
Comply™ 1251 EO Chemical Indicator Strip	240	6.274 555 5

4



7.970 699

5



6.274 555

1 Self-Seal Sterilization Pouches

Self-seal sterilization pouches are pre-folded and assure accurate and fast closing without the requirement of a heat sealing device. They are especially suited for use in small general practices, dental surgeries and by users who want to avoid costs of additional sealing equipment. The self-seal sterilization pouches are constructed from transparent PET/PP multi-layer copolymer film, medical grade paper and adhesive strip which provides excellent resistance to over-exposure of steam and clean opening. Water based, non-toxic process indicators for steam and ethyleneoxide sterilization complying with ISO 11140-1 are applied on the paper surface and help to differentiate between processed and unprocessed packages.

- Reinforced film to avoid tearing during opening
- Clean and accurate indicator color change
- Tear, fibre-free opening and aseptic presentation
- Triple band seal for higher package integrity

Dimensions mm	PK	Cat. No.
75 x 200	200	6.272 280
90 x 230	200	6.272 281
90 x 270	200	6.272 282
130 x 290	200	6.272 283
190 x 340	200	6.272 284
300 x 430	200	6.272 285



Heat-Sealable Sterilization Pouches and Reels

Heat-sealable sterilisation pouches and reels as a packaging solution for sterilisation applications, ensure reliable protection of the medical device against contamination with bacteria from the time of sterilisation until use of the sterile medical device. Flat and gusseted type and wide range of standard sizes allow optimum choice of correct sized packaging of each item. The sterilisation reels and pouches are constructed from transparent PET/PP multi-layer copolymer film and medical grade paper. Water based, non-toxic process indicators for steam and ethylene oxide sterilisation (complying with ISO 11140-1) are applied on the paper surface. This helps differentiating between processed and unprocessed packages.

- Reinforced film to avoid tearing during opening
- Clean and accurate indicator colour change
- Tear, fibre-free opening and aseptic presentation
- Triple band seal for higher package integrity

The sterilisation pouches and reels are effective barriers against germs and according the requirements of ISO 11607, EN 868-5 and ISO 11140-1 standards.

2 Heat-Sealable Sterilization Pouches

Description	Dimensions mm	PK	Cat. No.
flat	75 x 200	1000	6.272 268
flat	100 x 300	1000	6.272 269
flat	150 x 400	1000	6.272 270
flat	200 x 450	1000	6.272 271
flat	250 x 400	1000	6.272 272
flat	250 x 500	1000	6.272 273
flat	300 x 500	1000	6.272 274
gusseted	100 x 300	1000	6.272 275
gusseted	150 x 390	1000	6.272 276
gusseted	200 x 500	500	6.272 277
gusseted	250 x 500	500	6.272 278
gusseted	300 x 600	500	6.272 279



3 Heat-Sealable Sterilization Reels

Description	Width mm	Length m	PK	Cat. No.
flat	50	200	1	6.272 250
flat	75	200	1	6.272 251
flat	100	200	1	6.272 252
flat	150	200	1	6.272 253
flat	200	200	1	6.272 254
flat	250	200	1	6.272 255
flat	300	200	1	6.272 256
flat	350	200	1	6.272 257
flat	400	200	1	6.272 258
flat	500	200	1	6.272 259
gusseted	75	100	1	6.272 260
gusseted	100	100	1	6.272 261
gusseted	150	100	1	6.272 262
gusseted	200	100	1	6.272 263
gusseted	250	100	1	6.272 264
gusseted	300	100	1	6.272 265
gusseted	350	100	1	6.272 266
gusseted	400	100	1	6.272 267



1


1 Sterilisation Pouches Qualitix®

Suitable for many laboratory instruments. The disposable bags are used for simple and effective wrapping of sterilization goods that are visible through the transparent PET/CPPE film. With the self-sealing strip they can be closed safely and quickly.

Socorex

- Intended for steam and EO gas sterilization
- With two colour indicators
- Robust, durable material
- Wide, self-sealing strip
- Thumb notch for easy opening
- ISO 17665-06 and ISO 11135 conform

Internal dimensions (W x D) mm	PK	Cat. No.
65 x 110	200	4.664 119
70 x 205	200	4.664 120
115 x 205	200	4.664 121
170 x 300	200	4.664 122
270 x 335	200	4.664 123

2


2 Roll dispenser with Cutter

The dispenser frame is made of stainless steel and steel rods with nylon bearings for hygienic use at CSSDs. The integrated cutting unit includes an accurate and high quality cutting blade, providing safe and secure handling, as well as easy replacement. The roll dispenser and cutter is a useful addition to rotary sealing machines. It's renewed and the modular design makes it an ergonomic and economic tool which can be used as single or double rack model on working stations or just mounted on the wall.

Description	PK	Cat. No.
Roll dispenser with cutter	1	6.272 287

3


3 Rotary Sealer

This Rotary Sealer is an entry model which is solid, durable and extremely easy to use. Once power is on and the variable temperature adjustment has been done, the Rotary Sealer works when it's needed and stops automatically when the work is done. The basic rotary sealer is microprocessor controlled and the temperature can be adjusted anytime easily. The sensitive temperature ranging between 50 °C and 250 °C provides the user with flexibility to seal different kinds of packaging such as paper/film and Tyvek® pouches. Automatic feeding driven by optical sensors and multiline sealing technique ensure optimum seal strength at continuous operations. This sealing system is validated, calibrated and in compliance with international standards.

Description	Dimensions (W x D x H) mm	PK	Cat. No.
Rotary Sealer	225 x 430 x 160	1	6.272 286

