

Steam Sterilizer LABOKLAV 55 – 195

Installation of the unit as either front- or top loader possible. When set up as front loader the units are stackable. Integrated, separate and powerful steam generator for shorter cycle times.

Low in energy consumption due to optimized size of steam generator in relation to chamber volume.

Steam sterilizer for the universal use in the laboratory, in full compliance with

- DIN 58950 (pharmaceutical applications)
- DIN 58951 (laboratory applications)
- Pressure Device Directive 2014/68 EU
- IEC 61010 – 2 - 40 (Thermo locking device)

LABOKLAV 55 – 195

Basic unit with 55, 80, 100, 135, 160 and 195 Litre chamber volume, Useable as either front- or top loader

- max. permissible pressure 2,8/-1 bar
- sterilization temperature 98 °C to 135 °C
- TÜV tested motor-driven safety quick-action lock with lip seal
- separate integrated latest-generation steam generator with new technology of 4, 6 or 10 kW heating capacity, according to the chamber volume
- integrated storage tank for fully demineralized water for steam generation (for automatic or manual filling), level monitoring function
- thermo-lock pursuant to TRB 402 and DIN 61010-2-40
- flexible PT100 reference sensor for fluid sterilization (time triggered via media temperature)
- gravitation ventilation and pressure change ventilation (waste sterilization)
- integrated evaporation condensation, water-cooled, temperature-controlled, adjustable
- validation adapters
- internal memory chip for storing up to 150 cycles (may be read out later)
- RS484 interface for data transmission
- collective connection to drain pipe
- floor support inside
- timer function
- housing made of powder-coated steel. Choose between 3 color combinations: blue/light gray, emerald/light gray, purple/light gray
- automatic feed water pump
- microprocessor control with 20 pre-assigned programs
- individual assignment of all program slots by the user
- V4A stainless steel pressure vessel (stainless steel 1.4404 or SS 316L)
- units with full double jacket made of stainless steel from version M or V
- easy operation
- code protected access levels
- safety chains for a safe state of the unit
- several cycle data can be documented

Fast Cooling of liquids

All units can be supplied with different cooling versions as an option. The cooling time can be reduced dramatically between 50 and 80%. Main feature to achieve short cooling cycles is the double jacket. VE-Water is pumped through the double jacket during cooling, the full contact surface of the chamber ensures a fast heat transfer into the cooling media. No valuable demineralised cooling water is wasted. The cooling water is fed back into the integrated tank and is reused for the next cycle. Automatic cooling of the VE-Water by means of tap water (heat exchange precept).

Vacuum

A powerful watering vacuum pump guarantees a fast and secure deaeration of the sterilisation goods. Fractionated or single pre-vacuum programmes are integrated. If ordered with vacuum system vacuum drying is a standard feature. During the drying vacuum hot steam is pulsed through the double jacket to support the drying process.

Available variants of LABOKLAV 55 – 195

- B: Basic
- M: integrated fast cooling
- MS: integrated fast recooling with counter pressure
- MSL: integrated fast recooling with counter pressure and additional fan
- V: Vacuum system
- MV: Vacuum system, integrated fast recooling
- MSV: Vacuum system, integrated fast recooling with counter pressure
- MSLV: Vacuum system, integrated fast recooling with counter pressure and additional fan



Type	Chamber- vol. l	Chamber- dimensions (Ø x T) mm	Installation space vertical unit D×W×H ¹⁾ (Horizontal unit W×H×D) mm	Loading capacity ²⁾	Steam gene- rator	Electr. requirements
Laboklav 55	55	410×460	740×765×600 (740×600×765)	approx. 9×1 l Schott	4 kW	3N 400V~16A (1N 230V~36A)
Laboklav 80	80	410×610	740×915×600 (740×600×915)	approx. 18×1 l Schott	4 kW	3N 400V~16A (1N 230V~36A)
Laboklav 100	100	410×760	740×1065×600 (740×600×1065)	approx. 27×1 l Schott	6 kW	3N 400V~16A (1N 230V~36A)
Laboklav 135	135	510×660	840×965×700 (840×700×965)	approx. 30×1 l Schott	10 kW	3N 400V~16A (1N 230V~36A)
Laboklav 160	160	510×760	840×1065×700 (840×700×1065)	approx. 45×1 l Schott	10 kW	3N 400V~16A (1N 230V~36A)
Laboklav 195	195	510×990	840×1215×700 (840×700×1215)	approx. 45×1 l Schott	10 kW	3N 400V~16A (1N 230V~36A)

Technical changes allowed

¹⁾Total height, loading height less 90 mm

²⁾Front loading approx. 15% less

Type	Order No.	Type	Order No.
55 B	10 16 05510	135 B	10 16 01350
55 M	10 16 05511	135 M	10 16 01351
55 MS	10 16 05512	135 MS	10 16 01352
55 MSL	10 16 05513	135 MSL	10 16 01353
55 V	10 16 05514	135 V	10 16 01354
55 MV	10 16 05515	135 MV	10 16 01355
55 MSV	10 16 05516	135 MSV	10 16 01356
55 MSLV	10 16 05517	135 MSLV	10 16 01357
80 B	10 16 08010	160 B	10 16 01600
80 M	10 16 08011	160 M	10 16 01601
80 MS	10 16 08012	160 MS	10 16 01602
80 MSL	10 16 08013	160 MSL	10 16 01603
80 V	10 16 08014	160 V	10 16 01604
80 MV	10 16 08015	160 MV	10 16 01605
80 MSV	10 16 08016	160 MSV	10 16 01606
80 MSLV	10 16 08017	160 MSLV	10 16 01607
100 B	10 16 01000	195 B	10 16 01950
100 M	10 16 01001	195 M	10 16 01951
100 MS	10 16 01002	195 MS	10 16 01952
100 MSL	10 16 01003	195 MSL	10 16 01953
100 V	10 16 01004	195 V	10 16 01954
100 MV	10 16 01005	195 MV	10 16 01955
100 MSV	10 16 01006	195 MSV	10 16 01956
100 MSLV	10 16 01007	195 MSLV	10 16 01957

Accessories

Article	Order No.
Printer for LABOKLAV 55 – 195	10 16 02030
Integrated printer for the documentation of all relevant process parameters, real paper printer, stored data can be printed out at a later stage	
Touchdisplay	10 16 02090
• Operation possible via touch panel or integrated keypad • Documentation available as pdf files via integrated USB port (includes all relevant information such as process and batch data, error messages as well as a graphical analysis which are all combined into a single file protocol for each run) • Internal memory saves up to 15.000 cycles • Network access via LAN to remotely view live data of the process. • Remote maintenance option	
Exhaust air filtration	10 16 02010
for safety laboratories BSL 2 and 3	
Loading system for LABOKLAV 135/160	10 16 00160
Comprises the trolley and the loading slide	
Loading system for LABOKLAV 195	10 16 00195
Comprises the trolley and the loading slide	
Lifting device for loading and unloading the LABOKLAV 135 - 195	10 16 02040
with swivel arm, for loading and unloading heavy material	
Buckets and baskets made of stainless steel on request	

