



# LABOKLAV

Autoclaves Made in Germany



# LABOKLAV STEAM STERILIZERS



Steam sterilization is the sterilization method with the widest range of applications – efficient, safe, reproducible and environmentally friendly.

All SHP Steriltechnik AG autoclaves work based on this principle and are characterized by innovative technical ideas. A wide range of chamber sizes between 25 l and 195 l, universal installation options as a free-standing or tabletop unit and numerous configurations provide individual solutions meeting your specific requirements. Typical areas of application for our units include all microbiological laboratories in research institutions, universities, quality controls in the pharmaceutical and food industries as well as waste sterilization, for example in the field of medical diagnosis.

Laboklav series autoclaves are characterized by their reliability and quality. We manufacture our products exclusively in Germany to high and continuously monitored quality standards. Our units are TÜV-certified and approved for series production and bear the CE mark. They comply with the following standards:

- ◆ Pressure Equipment Directive 97/23/EU
- ◆ DIN 58950: Sterilization - Steam sterilizers for pharmaceutical products
- ◆ DIN 58951: Sterilization - Steam sterilizers for laboratory use

As your steam sterilization partner, we are always on hand to advise you and offer:

- ◆ Comprehensive advice
- ◆ User training, including on your own premises
- ◆ IQ / OQ / PQ / DQ
- ◆ Technical support from trained and authorised service technicians

# LABOKLAV ECO 80 AND ECO 135



## Technical specifications

Chamber volume	80 l	135 l
Chamber dimensions (Ø x D)	410 x 610 mm	500 x 660 mm
Outer dimensions (W x H x D)	740 x 915 x 600 mm	840 x 965 x 700 mm
Weight	155 kg	195 kg
Max. allowable pressure (PS)	2,8 bars	2,8 bars
Max. allowable temperature (TS)	143 °C	143 °C
Heating power	3 KW	6 KW
Electrical connection	230 V ~, 50 Hz, 16 A, alternating current	3N 400 V ~, 50 Hz, 16 A
Sterilization temperature	98 – 135 °C, adjustable	98 – 135 °C, adjustable

Maximum comfort at a low price, that is what LABOKLAV ECO series autoclaves stand for. They allow simple laboratory applications such as:

- ◆ Sterilization of liquids in open or slightly closed bottles, also available with an air recooling system
- ◆ Instrument sterilization
- ◆ Waste sterilization at 134 °C (thermal inactivation)
- ◆ Optional exhaust air filtration

The units are available in chamber sizes of 80 l and 135 l and are always configured as free-standing units. A low loading height facilitates loading and optional baskets allow optimal utilisation of the autoclave. The lid is closed effortlessly by a motor in two steps at the press of a button. The chamber can only be opened in safe conditions at the end of the sterilization process.

Steam is generated using demineralized water fed directly into the chamber. This is done by heating the chamber from the exterior with heating elements attached to the floor. This extends the life span of the heating elements and makes the interior easier to clean.

An integrated flexible PT100 reference sensor controls the temperature of the liquid in all liquid programmes and prevents the chamber door from being opened at high media temperatures (thermo locking device in accordance with IEC 61010-2-43). The unit can be equipped with an air recooling system to reduce the cycle times for liquid sterilization.

### Configurations

LABOKLAV ECO 80B	basic unit
LABOKLAV ECO 80M	with integrated rapid recooling
LABOKLAV ECO 135B	basic unit
LABOKLAV ECO 135M	with integrated rapid recooling

All processes run automatically and are controlled by a microprocessor. The integrated 4 MB memory allows easy documentation of the cycles. A dot-matrix printer is available as an optional accessory.

### Loading capacity for standard laboratory bottles

Volume	Quantity for ECO 80	Quantity for ECO 135
250 ml	84	124
500 ml	28	42
1000 ml	18	30
2000 ml	10	16

# ACCESSORIES

The right accessories make it easier to work with autoclaves and optimise the loading volume as well as the cycle times. Baskets in different versions maximise loading to suit the chamber size of the respective unit. Loading the autoclave with heavy sterilizing goods is significantly facilitated by lifting devices or loading systems.

## Accessories for LABOKLAV free-standing units

- ◆ Baskets in various heights
- ◆ Baskets with closed bottom
- ◆ Buckets, also with lid, for waste sterilization
- ◆ Integrated magnetic stirrer
- ◆ Lifting device for heavy loads



Lifting device



## Accessories for LABOKLAV tabletop units

- ◆ Baskets in various sizes
- ◆ Trays for waste sterilization
- ◆ Middle floor mounts
- ◆ Stands
- ◆ Integrated magnetic stirrer
- ◆ Loading system

Magnetic stirrer for tabletop units



Loading system



## Accessories for all LABOKLAV laboratory autoclaves



- ◆ Condensate collection tank
- ◆ Compressors
- ◆ Cartridges for the production of demineralized water
- ◆ Integrated measurement of the quality of the demineralized water (conductivity measurement)



**Wolflabs**

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**Use the above details to contact us if this literature doesn't answer all your questions.**

**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.

