

EUROKLAV[®]+

The S-Class



MELAG

Evidence Based Sterilization

QUALITY AND INNOVATION.

Fifty years ago, MELAG began in Berlin to specialize in the manufacture of sterilization equipment. Quality consciousness, reliability, and innovative eagerness, plus the highest in safety standards, have by now made the family-run enterprise MELAG one of the world's leading producers of sterilization equipment.

The company's success is verified by the sale of more than 400,000 units. Decades of experience, state-of-the-art computer-controlled production technology, the application of high grade materials and an experienced and qualified workforce make MELAG devices easy-to-use quality products.

The company philosophy emphasizes the systematic focus on one restricted production program. With its highly specialised development team, it is thereby possible for MELAG to keep and further develop its product line market-driven and on international leading technical level.

The entire MELAG staff is proud to be making an important contribution to the protection of the health of patients and medical staff with the equipment and accessories it produces for the safe sterilization and storage of sterilized articles.





Patients and medical staff must be protected by safe and reliable hygiene measures to do justice to the demands of medical due diligence. The industry sector in turn must supply suitable devices and methods to meet this demand.

Worldwide there are almost 100 companies that also manufacture autoclaves for medical practices. But MELAG is the only producer on the international scene who concentrates exclusively on this one single product line. This focus on core competence is the foundation of our international success, a success which must be continually tested and proven. Every MELAG employee works towards this end with the greatest commitment, since he realizes that if "his" autoclave isn't successful, then it endangers the success of the whole company. And that in turn affects every single employee.

The MELAG recipe for success:
Conscious concentration on core competency.

Manufacturers who produce autoclaves as one of many products can perhaps afford to go through a business slump in the field. But those who concentrate on only one product line do not enjoy that luxury. always have to be better than the competition.

Our international sales success proves that our autoclaves are better not only because of their manufactured quality. They are also better due to innovations. We are the first manufacturer to implement autoclave innovations that are truly trend-setting.

A few examples:

- the one-way water system
- the automatic water feed
- the documentation via practice PC or network
- the fractionated pre- and post-vacuum for practice autoclaves etc.

As always, we produce our autoclaves exclusively in Germany. Because innovative quality products have to be manufactured by quality-conscious, well-trained employees. The labour costs advantage of production in low-wage countries cannot play a role here.

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AUTOCLAVES WITH VACUUM

The European Standard EN 13060 for small sterilizers describes the three methods/types of sterilization cycles: B, S and N. Autoclaves with B cycles must meet the most stringent requirements. They work with a fractionated pre-vacuum and their capacity can be compared to that of large hospital autoclaves. The medical practice operator stipulates in the risk analysis and specification of the preparation steps which method is applied to prepare the instruments used. In practices which do not use narrow-bore and simultaneously long hollow-bodied instruments, a "Class S" autoclave can be the right alternative to the "Class B" autoclave. "Class S" autoclaves do not operate with a fractionated vacuum, but with a simple pre- and post-vacuum. Autoclaves which only offer "Class N" cycles are not suited for sterilizing wrapped instruments.

One system – two autoclaves

To meet the different needs in sterilizing instruments, MELAG offers the Euroklav®+ in two sterilization chamber sizes. The diameter for both autoclaves is 25 cm, the length of the sterilization chamber of the Euroklav® 29 VS+ = 35 cm and Euroklav® 23 S+, 23 VS+ = 45 cm.

The special process

To meet the stringent requirements of a "Class S" autoclave according to EN 13060, the air must be completely removed from the sterilization chamber, the interior of the instruments and the wrappings. The Euroklav®+ autoclaves meet this specification by an effective pre-vacuum in combination with a fractionated gravity system.





Easily adjustable special functions

The operator herself can easily handle special options such as switching over an internal feed water supply from the integrated water storage tank to an external water treatment unit connected to the autoclave.

It is just as simple to select an output medium for the documentation, e.g. printer, MELA*flash* CF Card Printer or practice computer system.

That also saves time in operating the autoclave.

Quick sterilization programs

The Euroklav[®]+ autoclaves are usually considerably faster than other devices on the market.

Using the quick program, unwrapped instruments can already be removed after 20 minutes, including pre-vacuum and vacuum quick drying.

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QUICKINNOVATIVEFLEXIBLE

Automate!

With the practice-friendly system: Automatic feed water supply with MELAdem®40/MELAdem®47. All Euroklav autoclaves can be automated by connecting the feed water supply with demineralized water to a water treatment unit. The used water is also disposed of automatically if the autoclave is connected to a drain. The measuring of the water quality integrated in the autoclave ensures that only water of the best quality for sterilization is fed into the system, thus protecting the autoclave and the valuable instruments.

We recommend:

- **MELAdem®40:** for small water requirements or only a few sterilizations per day. This water treatment system works on the ion exchange principle. The dual-chamber system of MELAdem®40 guarantees an optimal utilization of the mixed-bed-resin pellets. The MELAdem®40 can be mounted directly on the autoclave, on the wall or in a supporting cabinet.
- **MELAdem®47:** for greater water requirements. This water treatment unit works on the particularly environmentally friendly principle of reverse osmosis. It is especially well suited for practices which conduct more than four sterilization runs per day. The minimum use of consumables with a maximum yield of high-quality water relieves the environment and saves costs. The scope of delivery includes the water storage tank and a separate tap for demineralized water.



MELAdem®47 (1) installed in a sub cabinet with water tank (2) and additional tap (3).



The design – functional and attractive

Not only the performance and production quality of the Euroklav®+ autoclaves underline MELAG's dominant position, their design makes these devices visually top class.



Operating the autoclaves should be both pleasurable and safe. The design fully supports this demand. It shows what's essential, and does its work efficiently. The large door lock is not only a design feature, but also ensures a safe and easy opening and closing of the door.



MELAdem® 40
mounted on the Euroklav® 29 VS+



easy refill

The large integrated funnel-shaped opening of the water storage tank makes it easy to fill the tank with demineralized or distilled water in the Euroklav® 23 S+, 23 VS+ and 29 VS+. Alternatively, both autoclaves could be fed the required water supply from any external reserve vessel or even be connected to a water-treatment unit.



quick release connector

The regular draining of the used distilled or demineralized water from the water storage tank of stand-alone autoclaves is generally a cumbersome manual task for the practice team. The used demineralized or distilled water can quickly be removed from the water storage tank without effort via the quick release connector of the Euroklav® 23 S+, 23 VS+ and 29 VS+ autoclaves. If the installation conditions permit, it is also recommended to connect the stand-alone autoclaves to a drain. Then the used water is automatically drained from the autoclave storage tank.

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The optimum use of the sterilization compartment – you have the choice

The autoclaves are always delivered with a mounting for trays or cassettes, included in the price, with the standard combined mounting "A" (for 5 trays or 3 standard tray cassettes). The optional package holder allows the vertical sterilization of sealed items for optimal drying results.



mounting „A“
for 5 trays



foil holder



mounting „A“ (rotated)
for 3 standard tray cassettes



Sterilization containers

Several MELAG sterilization containers, available in different lengths and heights, can alternatively fit in the large sterilization chamber of the Euroklav®+ autoclaves. They are furnished with fasteners and cover seals and thus conform to EN 868.



DOCUMENTATION AND BATCH CONTROL

The Medical Devices Operator Ordinance and the RKI (Robert Koch Institute) recommendations demand that the operator documents the instrument sterilization. This practice secures evidence in case of presumed infection in the medical practice or clinic. In the context of public health department checks or medical practice inspections, proper documentation and batch control are also considered important criteria for the "release" of instruments by the medical assistant after sterilization.

Networked at last

By connecting the MELAnet Box to an Euroklav[®]+ autoclave, this becomes a Web server whose status information can be displayed in any Internet browser. The MELAnet Box is an Ethernet adapter which can post the data coming from the autoclave transparently over TCP/IP into the network.



Mobil mit CF-Karte

All cycle data can be automatically written on the CF card and directly read into any PC (for instance over the MELAflash reading device) and stored electronically.



Black on white

The connection of the MELAprint[®]42 device lets you print out the traditional documentation of all cycle data on paper.

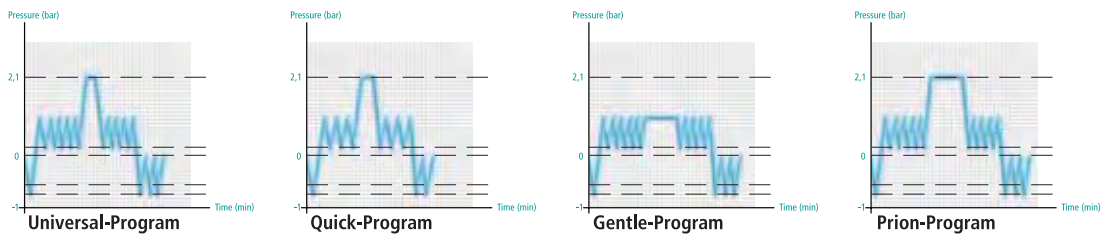


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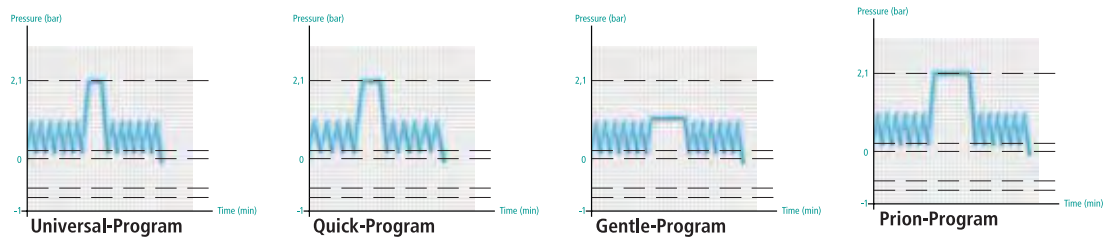
PROGRAMS AND TIMES

All autoclaves of the Class S offer four sterilization programs and two test programs. The test programs can check and document the function of the autoclave in the medical practice at any time. After selecting and starting the desired program, the modern microprocessor controls and monitors the entire process automatically.

Euroklav®23 VS+ / Euroklav®29 VS+:



Euroklav®23 S+:



Programs:

	Universal-Program	Quick-Program	Gentle-Program	Prion-Program
Euroklav®23 VS+				
Warm start 0,5 kg instruments	20	14	35	35
Cold start 3 kg instruments	28	20	42	43
Euroklav®29 VS+				
Warm start 0,5 kg instruments	19	13	34	34
Cold start 3 kg instruments	28	18	40	43
Euroklav®23 S+				
Warm start 0,5 kg instruments	20	15	36	34
Cold start 3 kg instruments	28	20	41	42
Drying period	20 - 25	10 - 13	20 - 30	20 - 25

All times in minutes

We manufacture our autoclaves in conformance with the following guidelines and standards:

93/42/EWG Medical device class IIa (European Guideline for Medical Devices), 97/23/EWG (Guideline for Pressure Devices), EN 13060 (Small Steam Sterilizers), EN 61010-1-2 (Safety Regulations for Electrical Measuring, Controlling and Laboratory Devices - Part 1 and Part 2), EN 50081-1 and EN 50082-1 (Regulations on Electromagnetic Compatibility), EN ISO 9001: 12.2000 and EN ISO 13485/ 11.2000 (Quality Management/ Certification), EN 1717 (Protection of Drinking Water from Contamination)



CE 0124



Technical data:

	Euroklav®23 VS+	Euroklav®29 VS+	Euroklav®23 S+
chamber size	45 cm long x ø 25 cm dia	35 cm long x ø 25 cm dia	45 cm long x ø 25 cm dia
chamber volume	22 litres	18 litres	22 litres
loading quantity	4 kg instruments 1 kg textiles	3 kg instruments 0,8 kg textiles	4 kg instruments 0,6 kg textiles
dimensions (w x h x d)	42,5 cm x 48,5 cm x 66 cm feet of the unit fit on 60 cm tabletop	42,5 cm x 48,5 cm x 57 cm feet of the unit fit on 50 cm tabletop	42,5 cm x 48,5 cm x 66 cm feet of the unit fit on 60 cm tabletop
weight	43 kg		
power supply	230 V / 50 Hz		
power consumption	3,000 Watt	2,500 Watt	3,000 Watt

"First aid" from the MELAG Service Center

Not every unexpected message from the autoclave indicates a technical defect. Often the problem only reflects an operating error or insufficient supply of operating resources, such as feed water. As contact partner for such problems which you can easily rectify yourself, you can consult the trained service personnel of your specialist dealer, the authorized MELAG Customer Service or the MELAG Service Center and ask for advice. In many cases a simple telephone call suffices to prevent the necessity of a service visit to your company.





MELAG oHG, medical technology

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Further information about our products
and prevailing standards, laws and directives
as well as current questions can be found at:

www.melag.com