

# MELAtronic® EN

15 EN · 17 EN · 23 EN



The European Standard EN 13060 divides tabletop autoclaves into the classes B, S and N.

Class B is the class with the highest requirements, such as are required on clinic autoclaves.

Class S devices have less performance capability and for instance cannot be used for complicated hollow instruments or multiple wrapping.

Class N are autoclaves that can be employed for the sterilization of solid instruments.

MELAtronic® EN autoclaves have two „N“ and two „S“ programs.

Which autoclave, according to the European Standard, is appropriate for your medical or dental practice?

According to national hygiene requirements the physician or dentist is obliged to use risk assessment methods to define which types of instruments and packaging are to be used in the medical or dental practice. In other words, it must be decided whether B, S or N should be employed.

Bacteriological expert opinions and thermo-electric measurements of the sterilizing effect of the MELAtronic® EN autoclaves for wrapped instruments have demonstrated that both „S“ programs can sterilize small quantities of wrapped solid instruments.

MELAtronic® EN autoclaves are for the sterilization of solid instruments according to EN 13060.

**Quality - made in Germany**

**MELAG**

**Evidence Based Sterilization**

# MELAtronic® EN • Available in 3 sizes

## Fractionated gravity system

The autoclaves of the MELAtronic® EN model series work with a fractionated, microprocessor-controlled gravity system, which rapidly reduces the content of remaining air and effectively attains saturated steam.

## “S” and “N” programs

The precise program control of the MELAtronic® EN autoclaves permits four different sterilization programs. In the Universal program “S”, wrapped instruments can be sterilized. With the Quick program “N”, a small number of quickly required unwrapped instruments are already available again after 17-21 minutes. Temperature-sensitive, unwrapped instruments can be sterilized with the Gentle program “N” at 121°C, and wrapped instruments with lengthened exposure time can be sterilized with the Prion program “S” at 134°C.

## Innovative water system

Up to now, traditional autoclaves have worked exclusively with the water cycle process where the used and thus partly polluted water is always reused. The MELAtronic® EN autoclaves have an integrated water quality measurement feature. When the water quality in the reservoir degrades, an initial warning is issued that only a few more sterilization cycles are still possible. If the assistant does not replace the water in the reservoir, the integrated water quality measurement feature protects the instruments and the autoclaves by preventing a new autoclave start. The optimal protection from contamination by recycled circulating water is possible by connecting an external wastewater container to the autoclave. The autoclave can then be operated in the one-way water system.



# • According european standard 13060

## MELAtronic®15 EN



## MELAprint®42 - log printer

Different national guidelines often demand that the operator documents the instrument sterilization. The documentation of the program cycles for the autoclaves of the MELAtronic® EN series is possible with the log printer MELAprint®42 over the standard built-in interface (RS 232) for the following data records:

- Selected program
- Date, time, batch number
- Actual values of time, pressure and temperature
- Confirmation of the successfully completed program
- Inadmissible deviations, in case they occurred.



## MELAtronic®17 EN

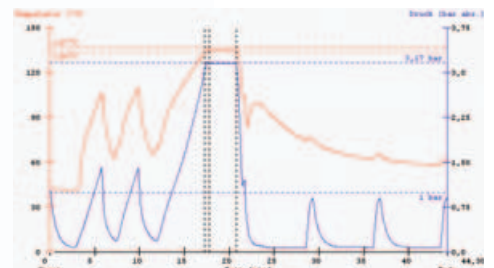


## MELAtronic®23 EN

## MELAwin® - Documentation Software

offers the possibility of "paper-free" documentation on the data processing equipment of the medical or dental practice. MELAwin® is installed on the practice PC (min. Windows98/ NT4/ ME/ XP; Pentium, 100 MHz). Then all data that are issued to the report printer MELAprint®42 are automatically transferred to the practice computer. In addition, the following information can be documented:

- Special loading variants
- Operating personnel of the autoclave
- Names of the patients



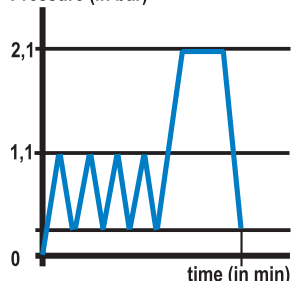
## Programs and times

### 1. Quick Program "N"

Temperature: 134°C  
 Pressure: 2,1 bar  
 Time: 5 min

Operational time (without drying)  
 Warm start 1kg instruments 17 - 21 min  
 Cold start 2kg instruments 22 - 29 min

Pressure (in bar)

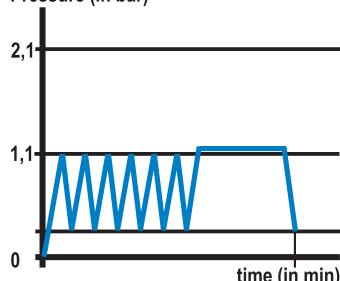


### 2. Gentle Program "N"

Temperature: 121°C  
 Pressure: 1,1 bar  
 Time: 20 min

Operational time (without drying)  
 Warm start 1kg instruments 37 - 47 min  
 Cold start 2kg instruments 44 - 59 min

Pressure (in bar)

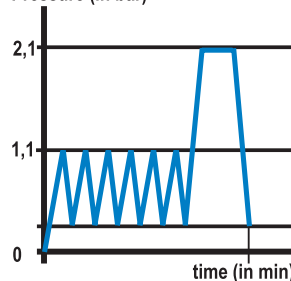


### 3. Universal Program "S"

Temperature: 134°C  
 Pressure: 2,1 bar  
 Time: 5 min

Operational time (without drying)  
 Warm start 1kg instruments 21 - 30 min  
 Cold start 2kg instruments 27 - 38 min

Pressure (in bar)

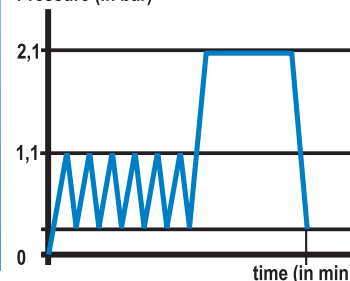


### 4. Prion Program "S"

Temperature: 134°C  
 Pressure: 2,1 bar  
 Time: 20 min

Operational time (without drying)  
 Warm start 1kg instruments 36 - 45 min  
 Cold start 2kg instruments 42 - 53 min

Pressure (in bar)



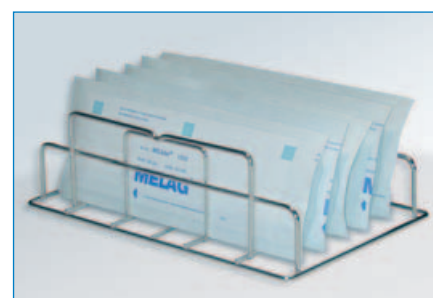
## Technical data

	MELAtronic®15EN	MELAtronic®17EN	MELAtronic®23EN
dimensions (d x w x h)	50 cm x 44 cm x 33 cm	55 cm x 46 cm x 35 cm	59 cm x 52 cm x 38 cm
chamber (dia x depth)	dia 15 cm x 38 cm, 7 litres	dia 18 cm x 42 cm, 11 litres	dia 23 cm x 45 cm, 19 litres
tray (d x w x h)	35 x 12 x 2 cm (can hold 3)	40 x 14 x 2 cm (can hold 3)	42 x 19 x 2 cm (can hold 5)
power supply	230 Volt, 50 Hz, 1.500 Watts	230 Volt, 50 Hz, 1.500 Watts	230 Volt, 50 Hz, 1.600 Watts
weighth	19 Kg	22 Kg	30 Kg
loading quantity	2 Kg solid instruments	3 Kg solid instruments	4 Kg solid instruments

## Drying

Good drying results can be achieved with the MELAtronic® EN autoclaves. The sterilization chamber is preheated to a pre-defined temperature by activating the "preheating" function. Condensate build-up is thereby decreased and the water consumption reduced. The "preheating" also supports post-drying. When the door is opened slightly after the automatic

pressure release at the end of the sterilization cycle, the heat in the sterilization chamber produces excellent post-drying. Good drying results can be attained by observing the loading instructions or using the foil holder for wrapped instruments. When the instruments are vertically positioned in the foil holder, the condensate quickly flows off and downwards.



## Quality and precision

More than fifty years ago, MELAG began in Berlin to specialize in the manufacture of sterilization equipment. Verification of its success has been the sale of more than 355,000 units.

Decades of experience, modern computer-controlled production technology in our own plant in Berlin, the application of high grade materials and an experienced workforce make MELAG devices easy to use quality products. Our company philosophy includes the syste-

matic concentration on one restricted production program. With its highly specialized development team, MELAG is able to retain and further develop its market-driven product line on an internationally leading technical level.



# MELAG

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