



Formomat

Reliable and economical.

LTSF sterilization at 55°C, 60°C and 75°C

Reproducible and validatable sterilization cycles.

Perfect sterilization of temperature sensitive items even with long lumens.

Convincingly economical sterilization method in compliance with European Standard EN 14180

MMM.
Protecting
human
health.

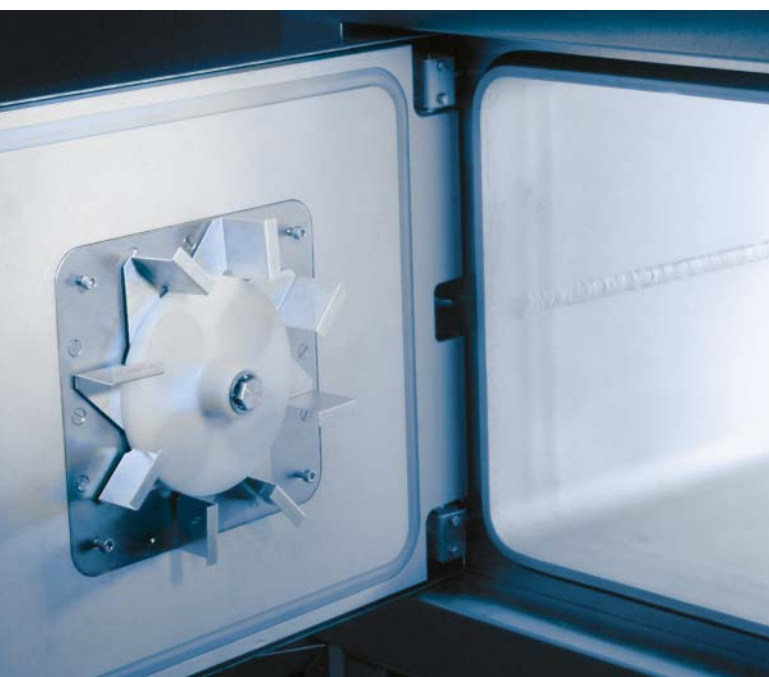
Formomat PL

Reliable and economical.

Convincing technology.

Every thing has its form and every thing needs its time. Particularly heat sensitive instruments with specific sizes and design need highly qualified processing ensuring gentle care of instruments and perfect sterilization at the same time – also for items with long lumens.

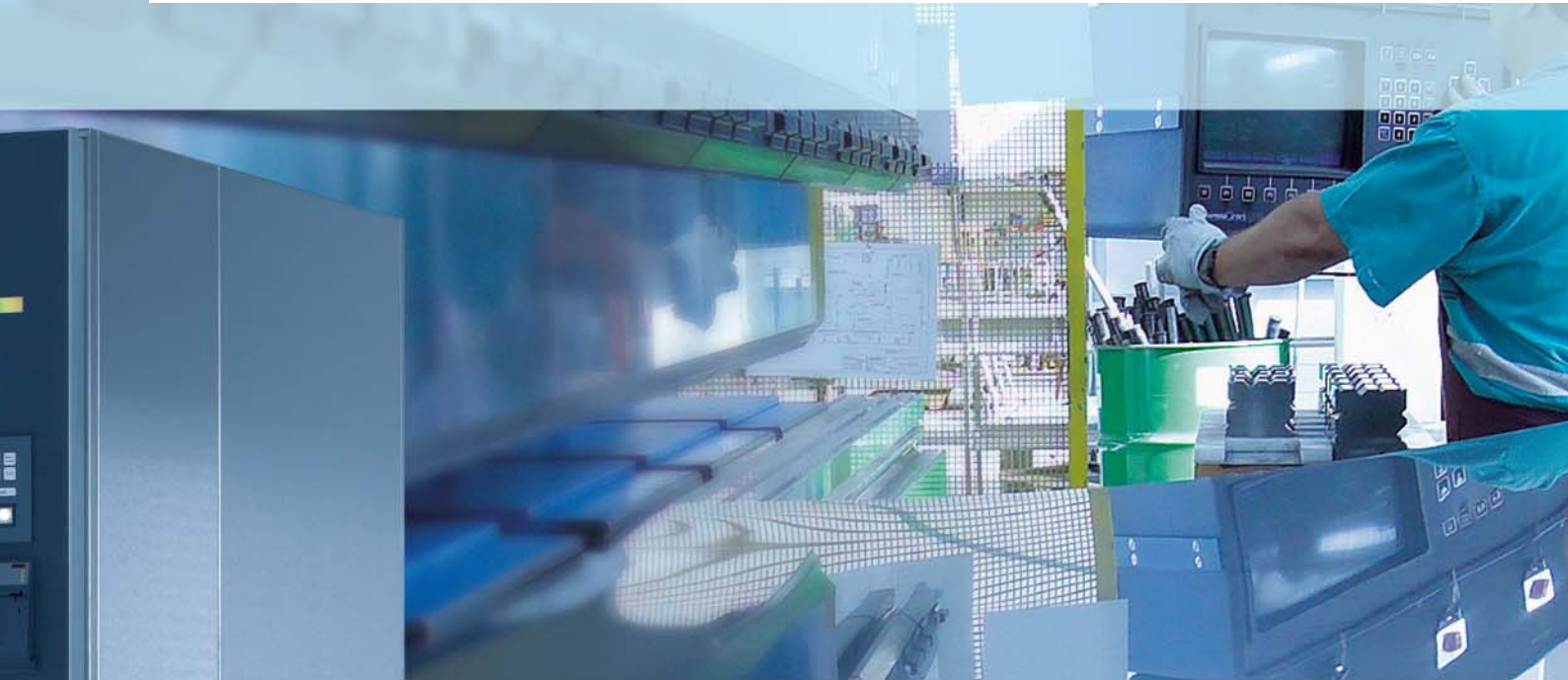
The new MMM sterilizer series of Formomat PL features an optimized LTSF-method including economical, technological and organizational advantages. Examples: variable temperature process (55 - 75 °C), simple operation thanks to a new design of the MMM panel, clearly arranged documentation, economical use of consumables and process validation with real instruments. The Formomat sterilizer offers many outstanding features that will convince you.



- **Door hinge with disc spring**
The newly developed door hinge is equipped with a disc spring and ensures even contact pressure of the doors on the entire seal surface.
- **Sterilizer chamber with fan**
(illustration does not show the fan cover)
The electronically secured door fan provides even distribution of temperature and active agent.
Customer advantage:
High sterilization safety.

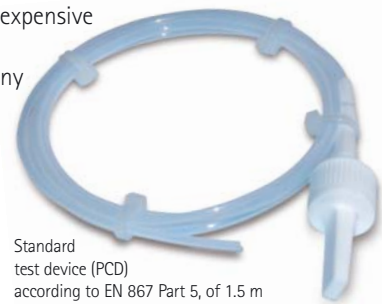


Perfect sterilization without residues. The new MMM Formomat PL features a low temperature LTSF sterilization method at 55°C, 60°C or 75°C which is suitable for all kinds of temperature sensitive objects. Even extremely long and narrow lumens can be safely sterilized inside. The MMM Formomat PL has been officially certified to sterilize lumens of 1.5 m length with inner diameter of 2 mm by standard cycles, even at 55°C. Biological testing is made with the same indicators as used in steam sterilization i.e. Bac. stearotherophilus. Due to its unique construction including external chamber and door heating by electrical heating mats, inside turbo fan and powerful vacuum system, the Formomat PL delivers perfect sterilization results without leaving any residues on the instruments or the chamber surfaces. The sterilized items are ready to be used immediately after the sterilization cycle. No additional aeration is required.



Unparalleled cost-effectiveness.

The MMM Formomat PL sterilization cycles require just 2 litres of 2 % formaldehyde solution and 2 litres of demineralized water. Thanks to the easy-to-use bottling equipment supplied by MMM, hospitals can provide the 2 % formaldehyde themselves. Thus no expensive sterilization media has to be purchased or imported from abroad. The MMM Formomat PL is simple to install as it does not require any exhaust pipe, gas combustion or additional aeration cabinet.



Standard test device (PCD) according to EN 867 Part 5, of 1.5 m length, inner diameter 2 mm, material PTFE.



- **Consumables**
Formaldehyde and water are supplied in plastics receptacles which are clearly distinguishable from one another and can be recycled. The electronically controlled tapping of the sterilization media allows for a precisely dosed consumption.
Customer advantage:
High operating and process safety.



Powerful features:

- Approved sterilization method according to latest European standards for LTSF sterilization EN 14180.
- Fully automatic cycle run. Cycle documentation by integrated printer. Optional cycle documentation via PC and A4 print-out.
- Low sterilization temperatures for heat sensitive instruments, as of 55°C, 60°C and optional 75°C.
- All cycles suitable for long and narrow lumens. Standardized PTFE test device with 1.5 m length, inner diameter 2 mm.
- Biological testing with Bac. stearothermophilus indicators.
- Even temperature and media distribution due to chamber and door heating by electrical heating mats and built-in fan.
- No formaldehyde residues due to effective steam flushing and alternating venting and vacuum, additionally supported by built-in fan.
- Low sterilization media consumption per cycle (2 L of 2 % FO solution + 2 L of demineralized water).
- FO starter kit including bottles, plugs, caps, labels and special pliers allow self-sufficient supply of sterilization media from hospital pharmacy.
- Instrument packing with sterilization instrument wrapping foil.
- Powerful vacuum pump with gas ejector and heat exchanger considerably reduce cycle times.
- Digital display of remaining cycle time.
- Cycles are reproducible and validatable with real instruments.

Fully developed details.

CSSD integration:

As the Formomat PL sterilizer meets highest safety standards, it can be integrated into a CSSD without any problem, which is a further advantage: optically uniform sterilizer front, easy to clean and easily integrated in a network. Thus a clear separation of the clean and the sterile area.

Flow evaporator:

The flow evaporator ensures even distribution of the agent concentration within the chamber – regardless of the load. This allows reliable sterilization of even complex instruments with long lumens.

Program configuration:



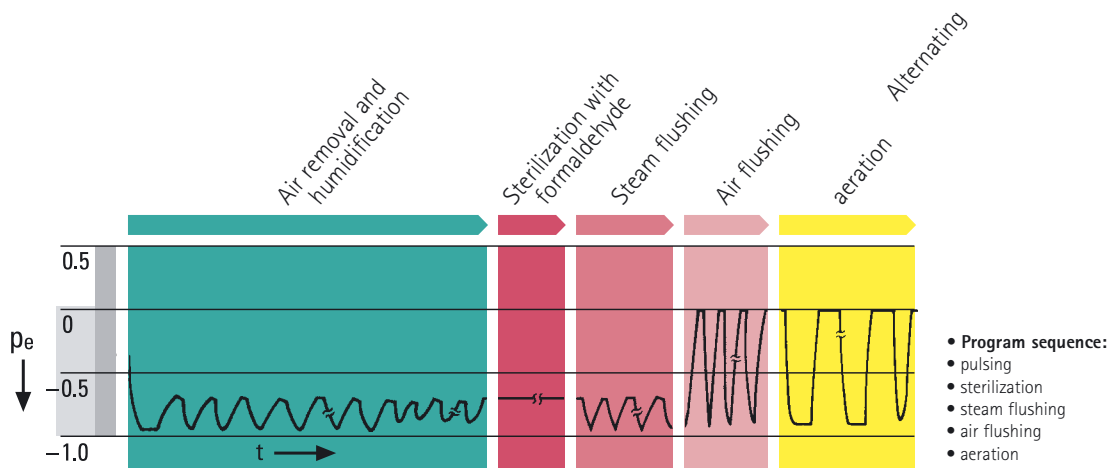
The control system of the Formomat can be configured in such a way that the operation requires user identification first. To add further process safety, any illegal manipulation of parameters is prevented by access protection.

Liquid ring vacuum pump plus gas ejector

The gas ejector allows the reliable achieving of deep vacuum switching points. An additional heat exchanger between chamber outlet and vacuum pump considerably reduces the cycle time.

Model	Number of doors	Outer dimensions	Inner chamber dimensions	Chamber volume Liter
		W x H x D/mm	W x H x D/mm	
Formomat PL 349-1	1670 x 1820 x 1040		380 x 320 x 900	110
Formomat PL 349-2	2670 x 1820 x 990		380 x 320 x 900	110

Technical changes reserved.



- **Liquid ring vacuum pump plus gas ejector**
- **Operating panel**
with four-line display, keypad and thermal plotter for print-out of process curve on thermal paper (optionally with SimCon-Netbox via PC).



MMM Group

As one of the world's leading suppliers of sterile processing systems, MMM has been working actively to promote good health since 1954. With a full range of sterilization and disinfection products and services – that can be found in every branch of health-care from hospitals and scientific institutes, to laboratories and the pharmaceutical industry – MMM, has over the years, consolidated its position as a pioneer of quality and innovation both in the German and international market. In our two production facilities based in Stadlern, Germany, and Brno, in the Czech Republic,

we manufacture products that meet the highest demands of our customers world wide. The depth and precision of production standards at both plants ensure that we accomplish the rigorous quality requirements of medical engineering.

900 competent employees work together as a committed and enthusiastic team, dedicated to achieving the mission of the MMM Group.

Protecting human health.



MMM Münchener
Medizin Mechanik GmbH
Sammelweisstraße 6
D-82152 Planegg / Munich
Tel.: +49 89 89918-0
Fax: +49 89 89918-118
www.mmmgroup.com

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