

Unotherm II

Electric steam generator for sterilizers



Operational safety with dual protection.



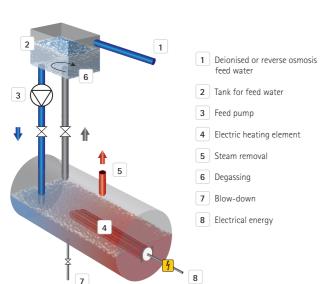
Powerful and compact

If a supply of pure steam is not available on site, you can operate your sterilizer with a MMM steam generator. It does not matter how your facilities are laid out, the steam generator can be integrated into the sterilizer, or installed beside, above or away from the steam consumer. The steam generator can be operated with the sterilizer control panel.

The **Unotherm II** is a pure steam generator that offers high performance with low energy requirements. It has been specially designed for facilities without a central steam supply. It can also be used for economical steam generation in an emergency or at weekends. The steam generator output can be adjusted optimally for the requirements of the connected sterilizer.

For example to keep the proportion of non-condensable gases in the sterilization steam as low as possible, the steam generator feed water is thermally degassed in a process controlled and monitored by a temperature sensor. The quality of the steam generator water is maintained at a constant high level by automatic blow-down. The blow-down is optionally controlled by the conductance. This completely eliminates the possibility of performance being affected due to deposits and corrosion. The service life of the steam generator components are extended and the instruments being processed.

The steam generator output can be adjusted optimally for the requirements of the connected sterilizer, because the **Unotherm II** is available in models from 36 kW to 81 kW in 9 kW steps. **The Unotherm II** offers high steam output with a consistently low connected load.





Feed water tank with degassing and level control independent of conductivity.

Economical and fit for the future

Heating power

The power for the electric heating element is supplied via power contactors and regulated by downstream load relays. The alternating actuation by wear-free electronic load relays supplies the heating elements at a consistently low load and as a result protects them. If a significant fault occurs, the power supply has additional protection via internal breakers.

Water storage system

The **Unotherm II** has a large capacity chamber system that gives the advantage of high energy reserve, which as a result reduces the peak load. Customer advantage: A lower than normal power source is required.

Validation

With its consistently high steam quality the **Unotherm II** contributes to the particularly good validation results of disinfection and sterilization processes.

Safetv

The **Unotherm II** and its working environment are protected by numerous safety, these devices guarantee a high degree of operational safety. Hardware, mechanical parts and software are monitored by separate systems – redundancy for greater safety.

Energy requirement

The high capacity chamber included within the design of the **Unotherm II** precisely fitted for the size of the consumer reduce the peak load requirement and maintain a consistently low energy consumption.

Control system

The **Unotherm II** connected to the MMM sterilizer can be automatically started early.



Advantages at a glance

- ✓ Low connected load, high steam output
- ✓ Flexible installation and expansion
- ✓ Extremely low space requirement
- ✓ Low energy consumption
- ✓ Wear-free electronic load relays
- High functional safety







MMM Group

MMM has been operating worldwide as one of the leading system providers in the service of health since 1954. With a complete range of products and services relating to all aspects of cleaning, disinfection and sterilization systems for the areas of **Healthcare** and **Life Science**, MMM has positioned itself as a crucial quality and innovation driver in the German and international

market. Our products are individually adapted to the requirements of our customers all over the world. The high vertical range of manufacturing in our production plants ensures that we fulfil the strictest demands of quality in the medical technology sector. More than 1100 employees apply their expertise and dedication to the mission of the MMM Group: Protecting human health.



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