

# Duotherm II

Steam-to-steam generator for sterilisers



Pure steam for professionals.

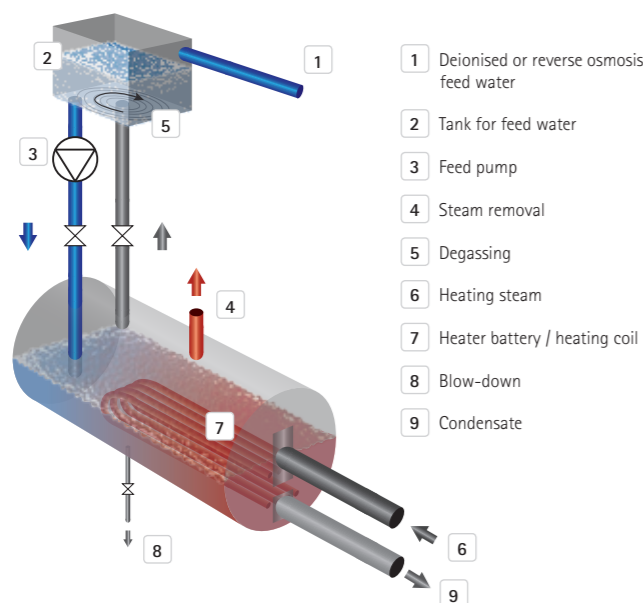
## Duotherm II – powerful steam-to-steam generator

### Pure steam for professionals

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

The **Duotherm II** also offers the option of converting heating steam to pure steam in facilities with a separate heating steam supply. The compact design of the **Duotherm II** has many advantages.

The **Duotherm II** steam-to-steam generator is particularly noted for the high quality of the pure steam and a long service life. 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 and its components are extended and the instruments being processed are protected during sterilization. High performance is guaranteed with optimal quality steam for sterilization, the required steam pressure is reached quickly and the long service life of the parts means that maintenance costs are kept low. Even with low heating steam pressure the **Duotherm II** is the suitable steam-to-steam generator: It is ready for operation from a heating steam pressure of only 4 bar and supplies pure sterilizing steam.



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

### Double performance, very economical

#### Heater coils

The intelligent layout enables the heating area to be increased in the smallest possible space and the heating performance doubled with low heating steam feed pressure. The intelligent design guarantees the long life of all components.

#### Validation

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

#### Safety

The **Duotherm II** and its working environment are protected by multiple back-up safety devices from the risks of excess pressure in the steam generator, this guarantees a high degree of operational safety. Hardware, mechanical parts and software are monitored by separate systems – multiple back-up systems for greater safety.

#### Display module

A display on the control cabinet shows the boiler pressure, the temperature of the feed water, the operating hours and also additional service information. You can activate and deactivate the **Duotherm II** from the sterilizer it supplies.

#### Control system

The **Duotherm II** is integrated in a flexible manner into the operating conditions. The central control system allows individual settings of parameters.

#### Automatic early start

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



### Advantages at a glance

- ✓ High performance in a small space
- ✓ Flexible installation and expansion: On top and beside, centralised and decentralised
- ✓ Conductance-controlled blow-down
- ✓ Low heating steam pressure (from 4 bar)
- ✓ Reliable safety technology
- ✓ Easily serviced design with flange plate





### 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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