

MOBILE STEAM STERILIZER

MSS

DESCRIPTION

Bacteria-free compressed air is essential in process industry. Compressed air piping with high temperature and humidity is a suitable environment for microbial growth. With proper sterile filters we can intercept bacteria but they will continue to grow and at certain point, they can migrate to the other side of filter media and compromise sterility. In order to stop microbial activity, filters have to be sterilized. Sterilization can be done in place or in the autoclave.

To perform autoclave sterilization filters need to be removed from the system and due to septic conditions in the atmosphere it is difficult to prevent contamination during re-assembly of the installation.

On the other hand sterilization in place (SIP) ensures much better results and is more common in the process industry. Steam sterilization is an effective method to stop microbial activity. To perform steam sterilization we need a steam generator and distribution network to the filters. In cases where steam is only required to perform sterilization, investment cost in steam generation and distribution system is very high.

In order to make SIP easier, faster and cheaper we have developed a "Mobile Steam Sterilizer". Central steam system is no longer required, because our solution can be easily connected to any part of installation where sterilization is required. After filter sterilization is completed Mobile Steam Sterilizer can simply be disconnected and transported to another location.



APPLICATIONS

- Food industry
- Dairy
- Wine production
- Small breweries

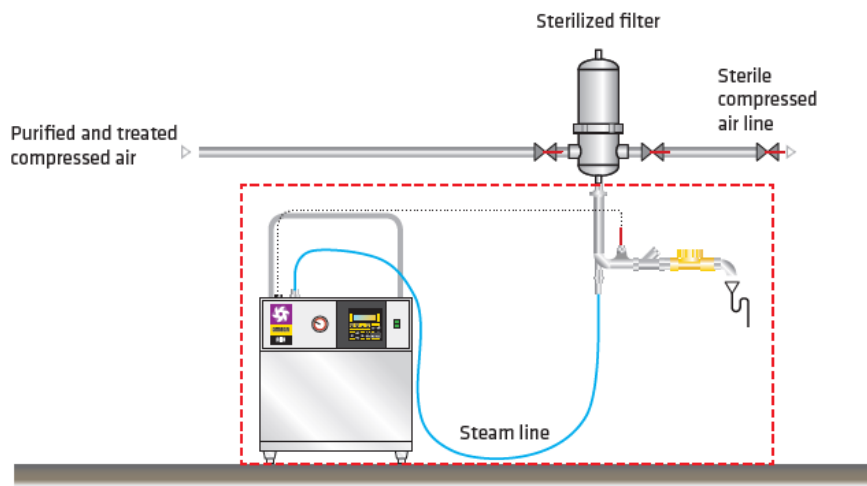
TECHNICAL SPECIFICATIONS

Steam pressure	1–3,6 bar
Operating temperature of steam	100 °C to 135 °C
Sterilisation time	up to 90 min
Drying time	up to 90 min
Voltage, Frequency	110–230 V / 50–60 Hz
Power consumption	1,7 kW
Sound level	60 dB(A)
Protection class (controller)	IP 54
Compressed air quality (inlet)	Class 1.4.1 acc. to ISO 8573-1 (0,1µm ; 3°C ; <0,01mg/m3/h)
Max. mass of the sterilised Filter	up to 15 kg

MATERIALS

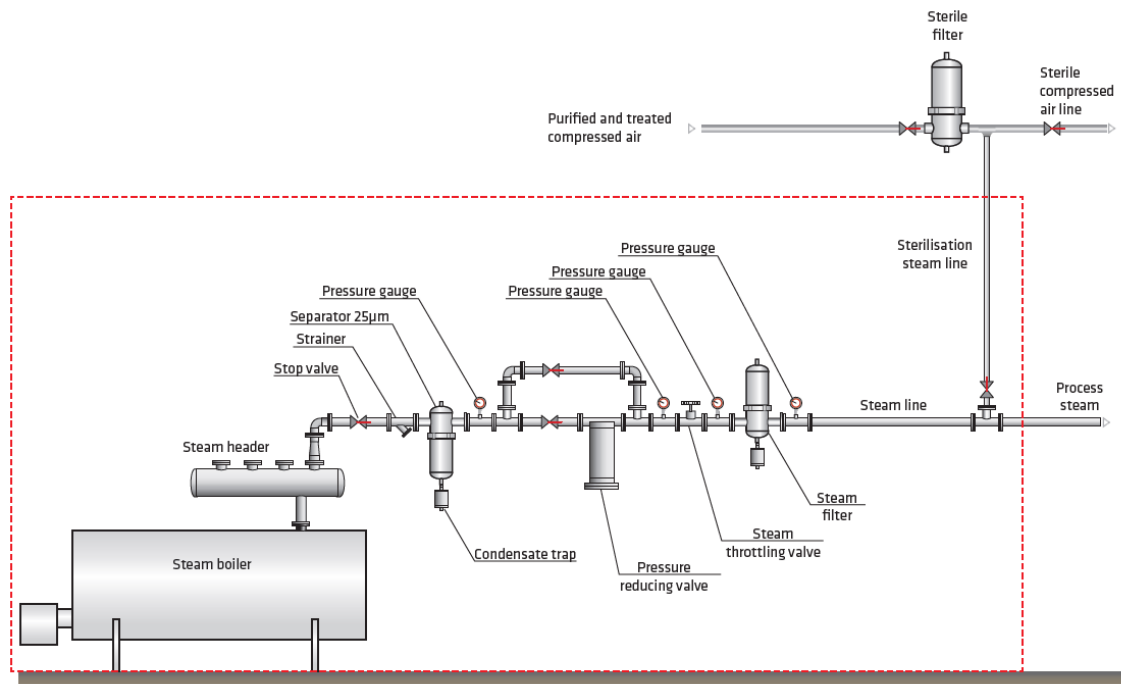
Frame	Stainless steel
Tubes	PTFE
Drain	Brass
Fitting, screws, plugs	Stainless steel

Installation of MSS on sterile filter



Scheme of a new Mobile Steam Sterilizer connected to a filter. After sterilization cycle is completed flexible hose for steam distribution is disconnected from the filter and complete sterilizer (equipment surrounded by a red frame) can be moved to another location.

Installation of conventional sterilization



Scheme of a conventional sterilization in place system. All the equipment surrounded by red line is required to perform sterilization of the filter housing in the upper right corner. Such a fixed steam distribution line connects steam generator to every filter.

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