



Germ-free without use of chemicals

steriBELT 2.0

Compact high-performance UV-C disinfection system

Device for easy disinfection of surfaces in industry. Avoiding cross-contamination, permanently reducing the total number of germs on conveyor belts, and prolonging the cleaning intervals between production shifts. Increasing the quality and / or preservation as well as the possible extension of the MHD date by germ-free packing materials are only some of the advantages of using the modules.

The special Amalgam lamps used in the **steriBELT** have an approx. 4-times higher UV-C performance compared to conventional UV-C lamps with the same overall length. In addition, the unique flat-lamp technology emit more than 50% of the generated UV-C power directly onto the surface, which is why the **steriBELT** lamps are much more efficient than round standard lamps. Standard lamps emit only about 1/3 of the UVC power directly onto the surface. As a result only one **steriBELT** module is required for optimal disinfection performance, instead of three standard modules of other manufacturers. Due to the Amalgam technology, there is no hazard of free mercury at any time.



steriBELT 420 module

Features

- Only one high-power lamp instead of 3-4 standard lamps
- Waterproof and rugged design
- Minimized product deposits due to compact, tube design
- Remains in the machine for cleaning
- Special shatter protection foil with increased transmission
- "Never out of service" concept

Typical applications

- Conveyor belt disinfection in the meat processing
- Bottle neck sterilization in the beverage filling
- Cap Disinfection
- Packing disinfecting on round table fillers
- Disinfection of transport boxes
- Disinfection in machines (for example, filling machines, risers, slicers, dice cutters, ice-cream makers, bread makers)

Technical data

General

Description	steriBELT 280	steriBELT 420	steriBELT 650	steriBELT 800	steriBELT 900
Art. No.	60305	60322	60307	60308	60329
Window length/-width	280 mm / 25 mm	420 mm / 25 mm	650 mm / 25 mm	800 mm / 25 mm	900 mm / 25 mm
Total length*	578 mm	718 mm	948 mm	1.098 mm	1.198 mm
Housing material	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Protection class	IP 67	IP 67	IP 67	IP 67	IP 67
Shatter protection	lampSAFE	lampSAFE	lampSAFE	lampSAFE	lampSAFE
IFS status	compliant	compliant	compliant	compliant	compliant
Serial number	■	■	■	■	■
Cable length	3 m	3 m	3 m	3 m	3 m
H.S. Code	85437090	85437090	85437090	85437090	85437090

Lamp data

Description	GFP 30/28 Art. No.: 60212	GFP 45/42 Art. No.: 60213	GFP 80/65 Art. No.: 60218	GFP90/80 Art. No.: 60266	GFP 100/90 Art. No.: 60214
Nominal lamp power	30 W	45 W	80 W	90 W	100 W
Lamp type	Flat lamp	Flat lamp	Flat lamp	Flat lamp	Flat lamp
Useful lamp lifetime	4.000 h	4.000 h	4.000 h	4.000 h	4.000 h
Intensity drop @254nm	< 35%	< 35%	< 35%	< 35%	< 35%

Power supply

Description	ALD®PG-E 1xLP030RA	ALD®PG-E 1xLP030RA	ALD®PG-E 1xLP030RA	ALD®PG-E 1xLP040RA	ALD®PG-E 1xLP040RA
Ballast	electronic, HF	electronic, HF	electronic, HF	electronic, HF	electronic, HF
Mains voltage	230 V AC	230 V AC	230 V AC	230 V AC	230 V AC
Mains frequency	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz	50-60 Hz
Ventilation	Membrane system	Membrane system	Membrane system	Membrane system	Membrane system
Material (MOC)	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
Sealing	visible from the outside	visible from the outside	visible from the outside	visible from the outside	visible from the outside
Mounting system	universal clamp	universal clamp	universal clamp	universal clamp	universal clamp
Fault signal contact	■ (potential free)	■ (potential free)	■ (potential free)	■ (potential free)	■ (potential free)
H.S. Code	85369085	85369085	85369085	85369085	85369085

Operation

Cooling	convection	convection	convection	convection	Convection
Burn-in time	15-30 min.	15-30 min.	15-30 min.	15-30 min.	15-30 min.

* without cable gland

Rugged industrial power supply



Microbiological proof

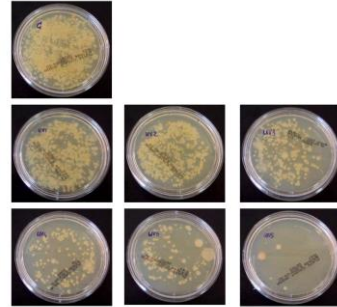
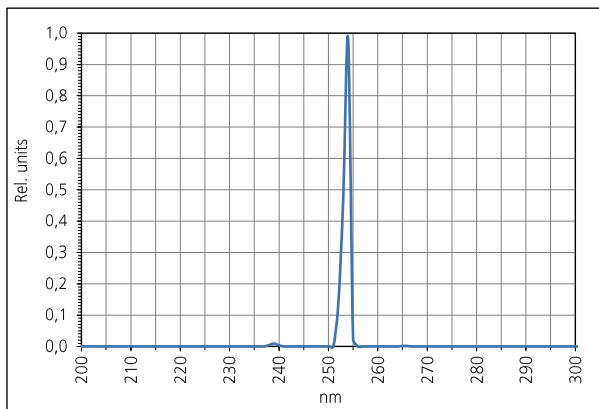


Figure 6. Total aerobic counts on Rodac plates (PCA) after 72 h incubation, as a function of the number of passes under UV. C = control; UV 1-2-3-4-5-15 passes.

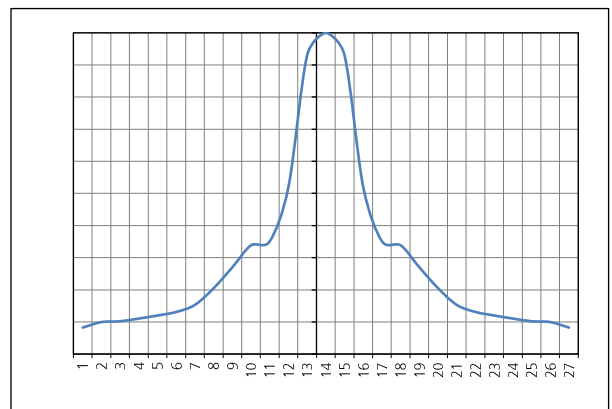
Spectral distribution



Intensity* 20-25 mW/cm²


* Distance 20 mm

Irradiation pattern



Distribution profile from the center axis [cm]

Safety instructions

WARNING	UV-radiation
	UV-radiation is dangerous for eyes and skin! Never look into direct or indirect radiation without proper personal protection and protect your skin!

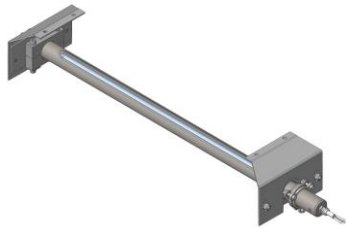
Special instructions



This product is a component for integration into a over ordinated system by an expert system engineer. It is the responsibility of the user to check the suitability of the component for its individual application and the intended purpose, taking into account the usual care and test under real conditions of use.

The useful lamp lifetime depends on the way of lamp operation and ambient conditions. An unauthorized way of operation as well as the use of components (power supply, cable, plug, etc.), which are supplied by us to us or approved in writing, leads to the exclusion of the warranty!

Optional accessories



Universal mounting bracket

Conveyor belt disinfection



steriBELT module during spray water cleaning process (CIP)

Cap disinfection in the beverage industry



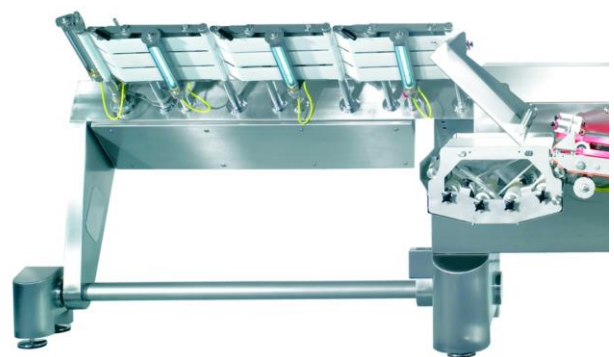
steriBELT module in front of trailing caps right before cap sealing system

Conveyor belt disinfection



steriBELT Universal mounting bracket

Disinfection of „flipper“ belts in slicers



steriBELT modules mounted on a slicer (in cleaning position)