



# Germ-free with UVC

Integrable modules for disinfecting  
air, surfaces & water

## UVC technology for disinfection

Easy to integrate into systems, machines & conveyor belts

In the food processing, pharmaceutical and medical technology sectors, there are special requirements in terms of cleanliness and hygiene regulations. Here in particular, it is especially important to have a competent partner who pays attention to all industry-specific standards and has these in mind when planning an individual process engineering system.

At Peschl Ultraviolet GmbH, we develop and manufacture devices for air, surface and water disinfection that can be easily integrated into existing or planned systems. These are disinfection solutions with innovative and environmentally friendly UVC technology.

UV light with a wavelength of 253.7 nm splits the RNA/DNA in such a way that viruses, bacteria, yeasts and molds are inactivated in the air, water and on surfaces within seconds.

The added value for systems - a benefit for health.

### The advantages for industry & health

- + IFS-compliant
- + Waterproof modules
- + High performance guaranteed
- + Industry-proof & robust
- + 99,99% germ-free
- + Microbiologically proven

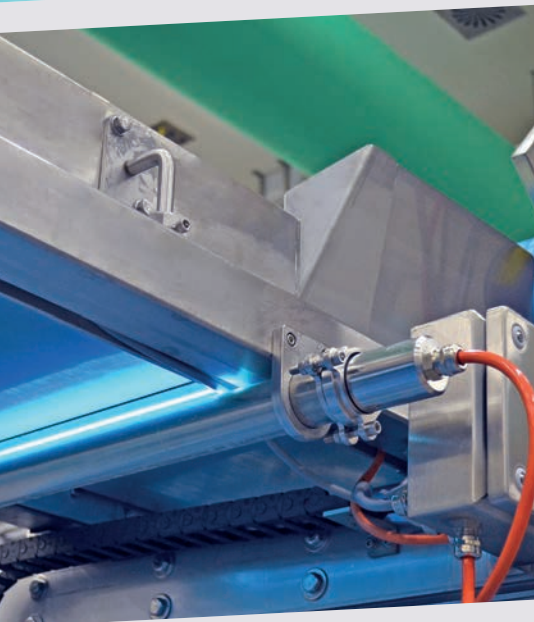




## Air disinfection

Modules for integration into HVAC systems, kitchen exhaust air systems or as individual modules, for example for air disinfection in trucks.

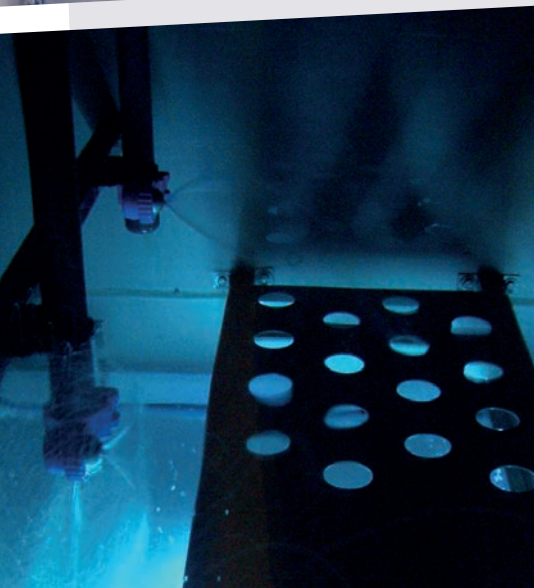
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## Surface disinfection

UVC modules for installation in machines and systems in the food and pharmaceutical industries as well as in packaging machines.

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## Water disinfection

UVC systems for water disinfection in tanks, storage containers or air washers as well as for use in cold storage and storage rooms or in cutting systems

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# Air disinfection

Easy integration of UVC modules

## **sterisol & sterisolDUCT®**

Designed for the integration of UVC air disinfection into new HVAC ducts as well as for retrofitting into existing infrastructures to solve microbiological problems or for prevention.

Each module is supplied together with a UVTRONIC power supply cabinet incorporating the innovative LCP2 controller to ensure safe operation and provide lamp status information and lamp replacement alerts.

The module sizes are systematically scaled, equipped with a contact switch and designed to accommodate various UVC lamps from the PUV-D lamp series.

### **Advantages**

- High intensity for short disinfection times
- UVC-Stable stainless steel housing
- Quick and easy installation as well as lamp replacement

### **Application examples**

- Integration in HVAC systems, kitchen exhaust air systems
- Single module Sterisol can be used for air disinfection in trucks



### **Example**

#### **Air treatment of central ventilation systems**

Drawer can be opened for easy lamp replacement and servicing.



Easy integration -  
customized adaptation to your requirements.

## IRMCOMPACT®

Condensate and biofilms in evaporators or air coolers lead to a high germ load (e.g. due to listeria) which is passed on to the air and therefore to the product.

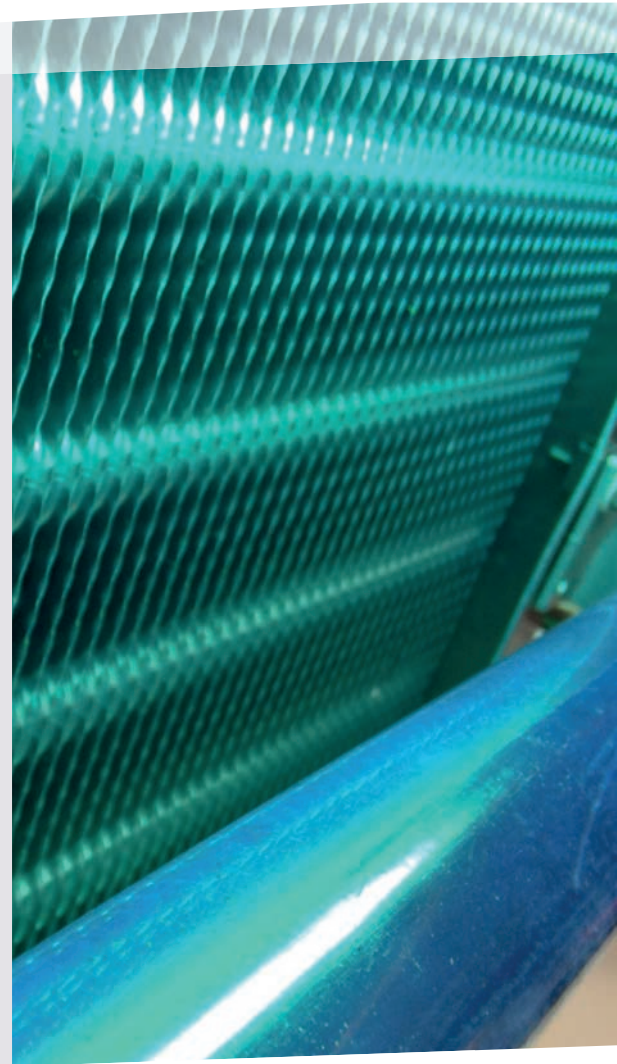
The integration of UVC lamps in and on air cooler systems greatly reduces the germ load. Microorganisms on the surface and in the air flowing past are inactivated.

### Advantages

- Easy retrofitting in existing air coolers
- Completely waterproof (IP67)
- Lamps can be changed without tools
- Thermally insulated UVC lamp, integrated reflector

### Application examples

- Used in air coolers in the food industry and transportation logistics
- Integration in refrigerated vehicles
- Integration in filling systems, packaging systems



### General technical Data

Description	IRM436	IRM852
Art. No.		
Total length	505mm	911mm
Lamp power	21W	40W
Lamp	PUV-D Lamp	PUV-D Lamp
Waterproof	IP67	IP67

# Surface disinfection

The added value for industrial plants and mechanical engineering

## steriBELT®

Steribelt is a high-performance UVC module that is easy to integrate and can be used in systems and machines with or without a holder.

The special indium amalgam lamps used in the steriBELT have an approx. 4 times higher UVC output compared to conventional UVC lamps of the same length. In addition, the unique flat lamp technology emits more than 50% of the generated UVC output directly onto the surface, which is why the steriBELT lamps are significantly more efficient than standard round lamps.

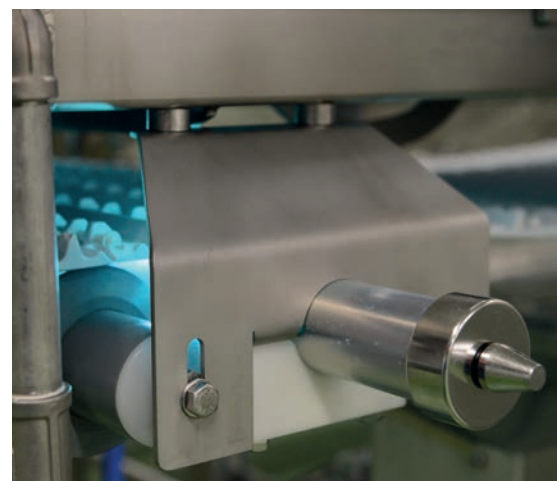
### Advantages

- Only one high-performance lamp instead of 3-4 standard lamps
- Waterproof and industry-proof
- Hardly any product deposits due to compact design
- Lamp remains in the machine during cleaning
- Special shatter protection film with increased UVC transmittance
- „Never out of Service“ concept



### Application examples

- Conveyor belts in the food, pharmaceutical and medical industries
- Bottle neck sterilization in beverage filling
- Cap disinfection
- Disinfection of packaging material on rotary conveyors
- Disinfection of transport boxes
- Disinfection in machines such as filling machines, ascending conveyors, slicers, bread slicing machines, cube cutters, flake ice makers, crushed ice makers



## General technical Data

Description	steriBELT 280	steriBELT 420	steriBELT 650	steriBELT 800	steriBELT 900
<b>Art. No.</b>	60305	60322	60307	60308	60329
<b>Window length/-width</b>	280 mm / 25 mm	420 mm / 25 mm	650 mm / 25 mm	800 mm / 25 mm	900 mm / 25 mm
<b>Total length</b>	578 mm	718 mm	948 mm	1.098 mm	1.198 mm
<b>Housing material</b>	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)	Stainless steel (1.4571)
<b>Protection class</b>	IP 67	IP 67	IP 67	IP 67	IP 67
<b>lampSAFE shatter protect.</b>	yes	yes	yes	yes	yes
<b>IFS status</b>	compliant	compliant	compliant	compliant	compliant
<b>Serial number</b>	yes	yes	yes	yes	yes
<b>Cable length</b>	3m	3m	3m	3m	3m
<b>H.S. Code</b>	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	GFP 90/80 Art. No.: 60266	GFP 100/90 Art. No.: 60214
<b>Nominal lamp power</b>	30 W	45 W	80 W	90 W	100 W
<b>Lamp type</b>	Flat lamp	Flat lamp	Flat lamp	Flat lamp	Flat lamp
<b>Useful lamp lifetime</b>	4.000 h	4.000 h	4.000 h	4.000 h	4.000 h
<b>Intensity drop @254nm</b>	< 35%	< 35%	< 35%	< 35%	< 35%



### Bracket can be ordered optionally

Fig. not to the scale of the original illustration



### UVC-Module steribelt

Easy & versatile to integrate



# Water disinfection

## Completely waterproof UVC modules

### DTS®25

UVC immersion tube system made of stainless steel for air, water and surface disinfection (hybrid system). Consisting of a high-performance UVC lamp in a highly robust housing and a ready-to-connect power supply unit in a solid design. Immersion tube systems are completely watertight and can be operated under water (IP68). Pressure-tight on all sides up to 2 bar, with flange mounting up to 10 bar overpressure. Mounting via the flange with anti-rotation lock or optionally using stainless steel spring clips. Industrial version without delicate threads. Optionally available with lampSAFE shatter protection (pressure-resistant up to 2 bar), version for 3-20 m cable length and as a metal-free version (UPW applications).

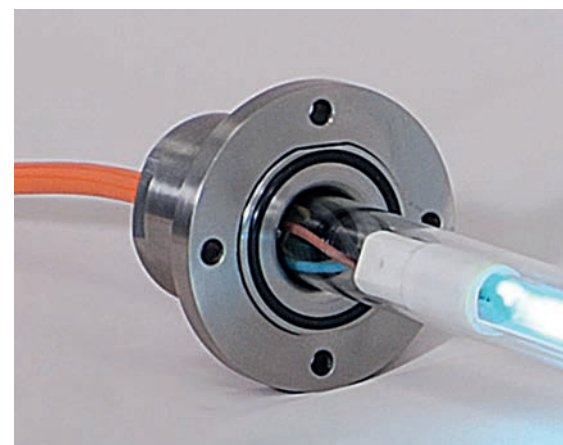
### Advantages

- Fully waterproof (IP68)
- Robust industrial design without fine thread
- Simple, tool-free lamp replacement
- Form-fit connection of the quartz tube
- Vacuum-compatible (quick tank emptying)
- Head section internally earthed for high wattage lamps
- 12 - 300 W lamp output as standard industrial products
- Thermally insulated UVC lamp, integrated reflector
- Optional head section in PP design possible



### Application examples

- Water disinfection in tanks and storage containers
- Water disinfection in air washers of HVAC systems
- Surface disinfection of air coolers and heat exchangers
- Mounted between transport rollers for surface disinfection
- Knife disinfection in cutting device systems
- Air disinfection in cold storage and storage rooms





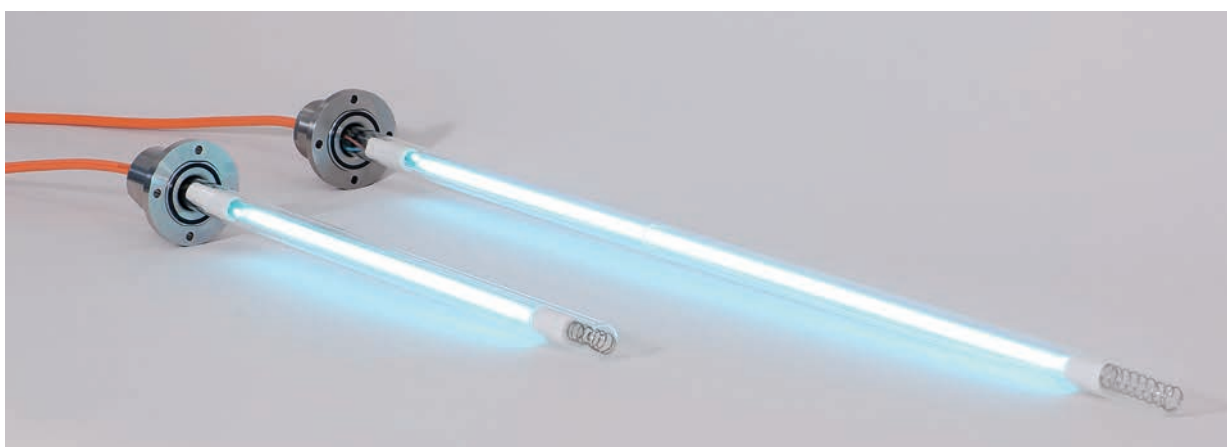
## General technical data

Description	DTS 25/354-12	DTS 25/505-21	DTS 25/960-41	DTS 25/505-64	DTS 25/960-110
<b>Art. No.</b>	30002	30005	30007	30014	30012
<b>Immersion depth</b>	354 mm	505 mm	960 mm	354 mm	960 mm
<b>Cladding tube diameter</b>	25 mm	25 mm	25 mm	25 mm	25 mm
<b>Diam. head section/flange</b>	50 mm / 80 mm	50 mm / 80 mm	50 mm / 80 mm	50 mm / 80 mm	50 mm / 80 mm
<b>Protection class</b>	IP 68	IP 68	IP 68	IP 68	IP 68
<b>lampSAFE shatter protect.</b>	optional	optional	optional	optional	optional
<b>Operation in water/air</b>	yes / yes	yes / yes	yes / yes	yes / yes	yes / yes
<b>Cable length</b>	3m	3m	3m	3m	3m
<b>Housing material</b>	stainless steel (hygienic)	stainless steel (hygienic)	stainless steel (hygienic)	stainless steel (hygienic)	stainless steel (hygienic)
<b>Stat. Warennummer</b>	842121000	842121000	842121000	842121000	85437090

## Lamp data

<b>Nominal lamp power</b>	12 Watt	21 Watt	41 Watt	64 Watt	110 Watt
<b>Intensity drop @ 254nm</b>	3,4 W	7,3 W	18 W	20 W	43 W
<b>Useful lamp lifetime</b>	8.000 h	8.000 h	8.000 h	16.000 h	16.000 h

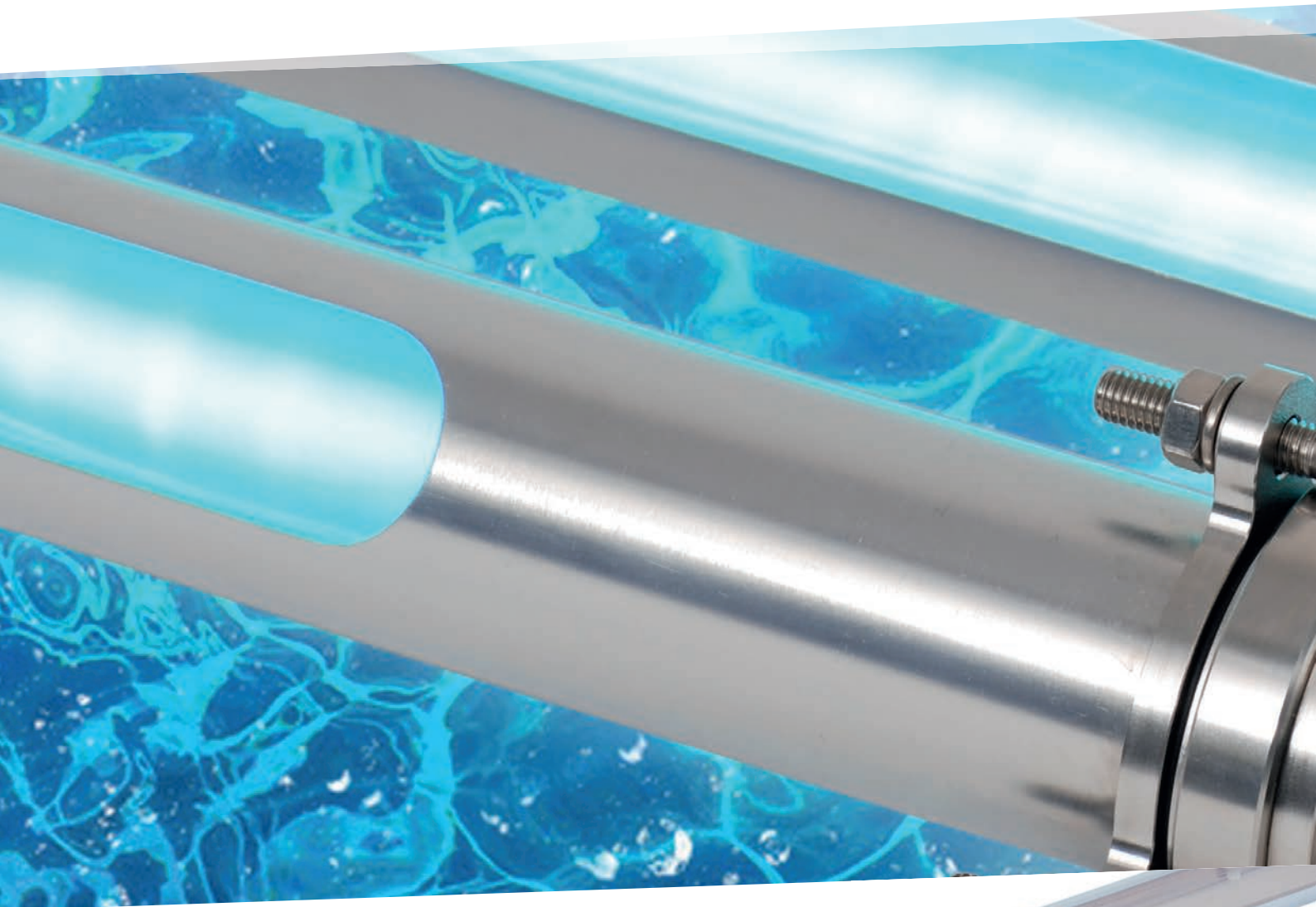
Also available as a DTS@28 version with a nominal output of up to 300 W.



Allrounder DTS not only sterilizes water but also air & surfaces!

# Product features in detail

Industry-proof products for mechanical engineering



## IFS-compliant - **lampSAFE®** shatter protection

In the event of glass breakage, our lampSAFE® shatter protection prevents glass splinters or other components of the lamp and the cladding tube from entering the products or machine. The special material has a higher UVC transmission than conventional PTFE films from market suppliers.



## Microbiologically proven effect

- 99,99% efficiency
- Tested by independent institutions
- 100% money back guarantee\*

\*special conditions apply





## Waterproof modules

IP67 products remain installed during cleaning and are built for the harsh, industrial production environment.

## High performance guaranteed!

Only high-performance lamps are used in our products. One high-performance lamp replaces 3-4 competitor lamps. Peschl Ultraviolet GmbH is the innovative market leader and inventor of rotationally symmetrical modules.

## Industry-resistant and robust

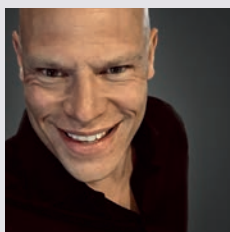
Optimum protection of the electronics thanks to waterproof housing to IP 67 - high quality and robust design. Proven in everyday production for decades.





## Germ-free - cause it counts!

Peschl is your partner from planning to implementation of uv-systems.



### **Bastian Engel**

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