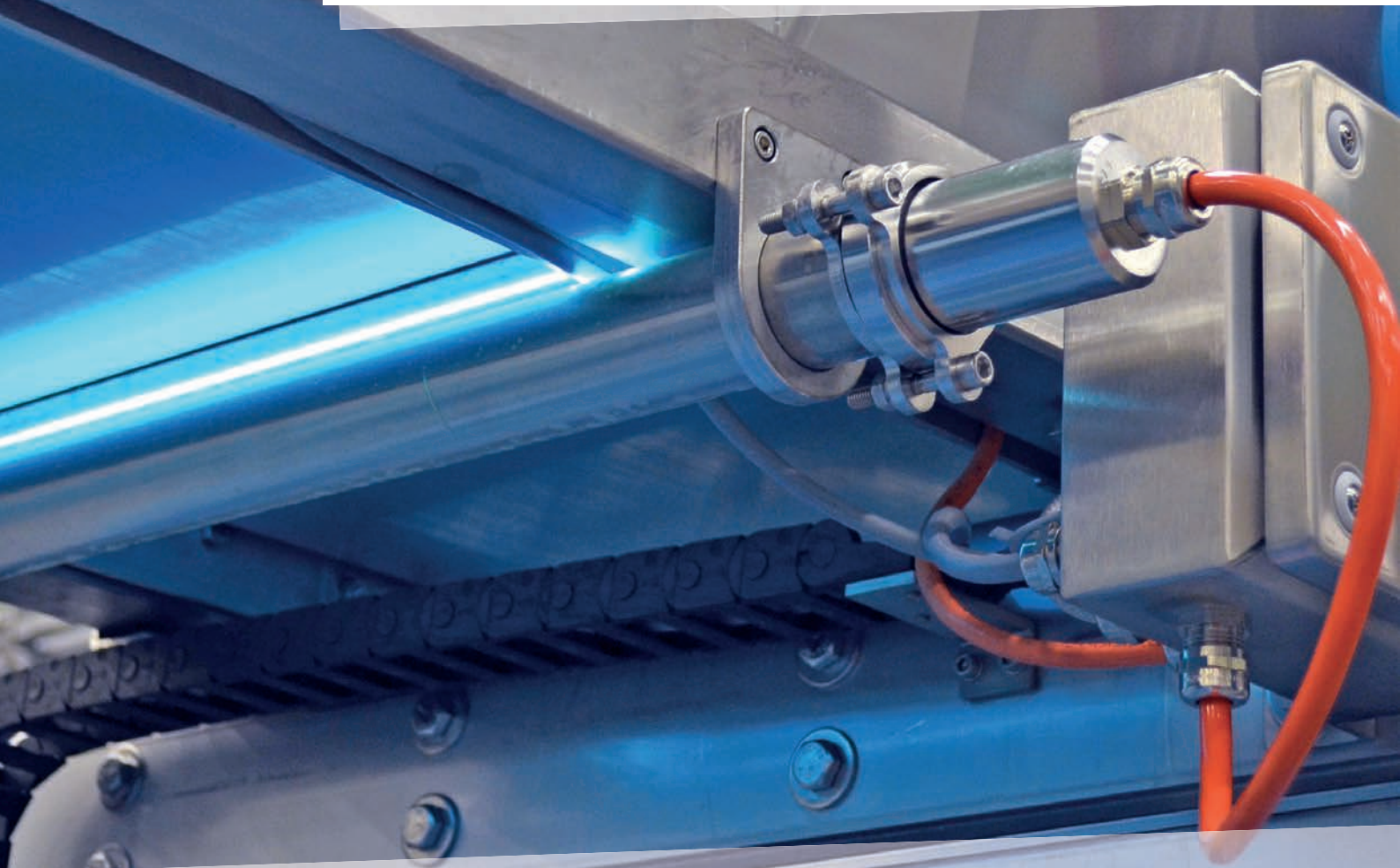




Germ-free with UVC

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





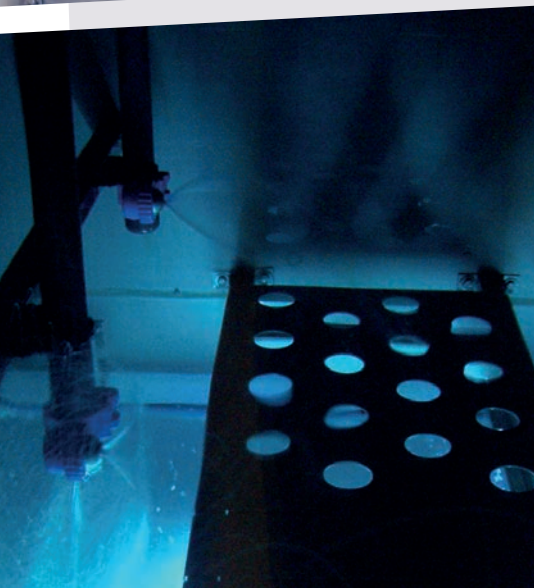
Air

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

4

Surfaces

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

6

Water

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

8



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.

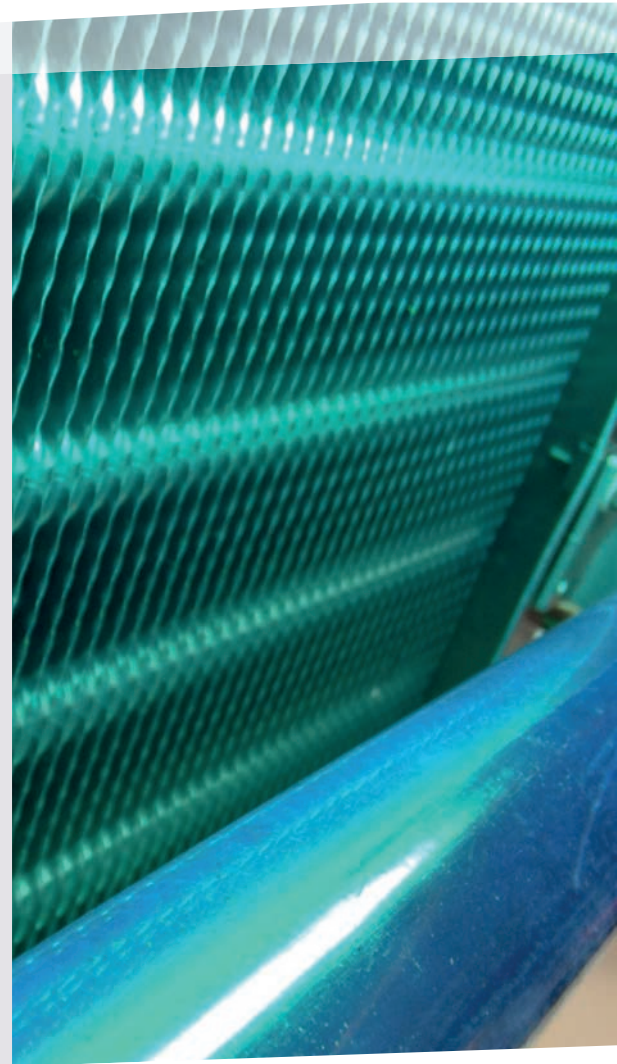
The integration of UVC lamps in and on air cooler systems greatly reduces the germ load. Microorganisms on the surface and in the air flowing past are inactivated.

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	IRM450	IRM850
Art. No.	60384	60381
Total length	600 mm	1000 mm
Lamp power	21W	40W
Lamp	8000 h	8000 h
Waterproof	IP67	IP67





Air disinfection

Easy integration of UVC modules

UVELIOS® 500

Innovative high-power UV-C system for air disinfection of rooms: The UVELIOS® 500 works with just one powerful UV-C lamp - other systems require up to four for lower doses. An integrated light trap enables safe installation, even in low rooms, without any health risks for employees.

The device can also be used at ambient temperatures of up to 5 °C. Service and maintenance are uncomplicated: The integrated lamp-CONTROL LT controller displays operating hours and system status. An alarm is triggered when the lamp is due for replacement; the lamp switches off automatically and can be replaced without tools.

An integrated ventilator and UV-protected electronics prevent the components from ageing. The disinfection performance reaches up to 99.999 % (log 5).

Advantages

- Plug and play design
- Highest UV dose with just one lamp
- Can be used in cold environments
- Innovative UV filter
- Alarm for lamp replacement



Application examples

- Food industry,
such as meat and cheese processing
- Industrial bakeries
- Pharmaceutical and cosmetics industry





General technical data

Description	UVELIOS 500
Art. No.	41281
Material	Stainless steel (1.4301,V2A) and anodized aluminium
Air flow	500 m³/h
Nominal power	500 W
Mains	230 V / 50-60 Hz
IP protection class	IP 54
Mounting	2 x stainless steel cables with a length of 1,5 m
Dimensions (L x W x H)	209 x 38 x 26 cm
Weight	37 kg
Operating temperature	+2°C to +35°C

Lamp data

Lampentyp	PUV-LP 10004.0, ozone free
Intensity flux @254nm	
Useful lamp life	12.000 h
UVC-Drop down during lamp life	< 20%



Surface disinfection

The added value for industrial plants and 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.

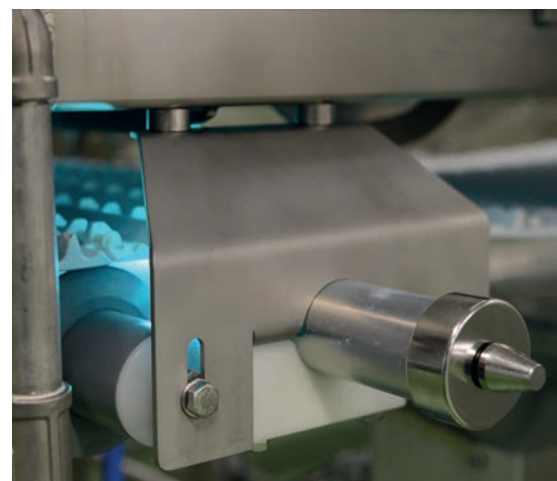
Advantages

- 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
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
lampSAFE shatter protect.	yes	yes	yes	yes	yes
IFS status	compliant	compliant	compliant	compliant	compliant
Serial number	yes	yes	yes	yes	yes
Cable length	3m	3m	3m	3m	3m
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	GFP 90/80 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 life	4.000 h	4.000 h	4.000 h	4.000 h	4.000 h
Intensity drop @254nm	< 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



Surface disinfection

Powerful systems for high requirements

EOSUV® OF 5020 2.0

The eosUV® OF 5020 2.0 is a powerful UVC module with an open design (IP20) that achieves an impressive radiation intensity of 100 mW/cm² at a distance of 20 mm thanks to convection cooling and specially coated high-performance UVC lamps. The control system and ballasts are housed in an external control cabinet, which can be used to operate up to four modules simultaneously. An integrated light trap reliably prevents UV radiation from escaping upwards, thus ensuring increased safety. Easy system integration is possible thanks to the Harting connector.

Advantages

- Extremely high UVC output (100 mW/cm² at 2 cm)
- Robust stainless steel housing
- Integrated light trap for personal protection
- Monitoring and evaluation of lamp function
- Thermally optimized reflector lamps



Application examples

- Surface disinfection
- Disinfection of packaging materials
- Cap and film disinfection



General technical data

Description	eosUV OF 5020 2.0
Art. No.	74787
Dimensions (L x W x H)	800 x 292 x 139 mm
Window length/-width	520 x 220 mm
Connection points	4 x M8
Protection class	IP20
Ambient temperature	-10°C - +40°C
Material	stainless steel (1.4301)

EOSUV® OF 5020 2.0

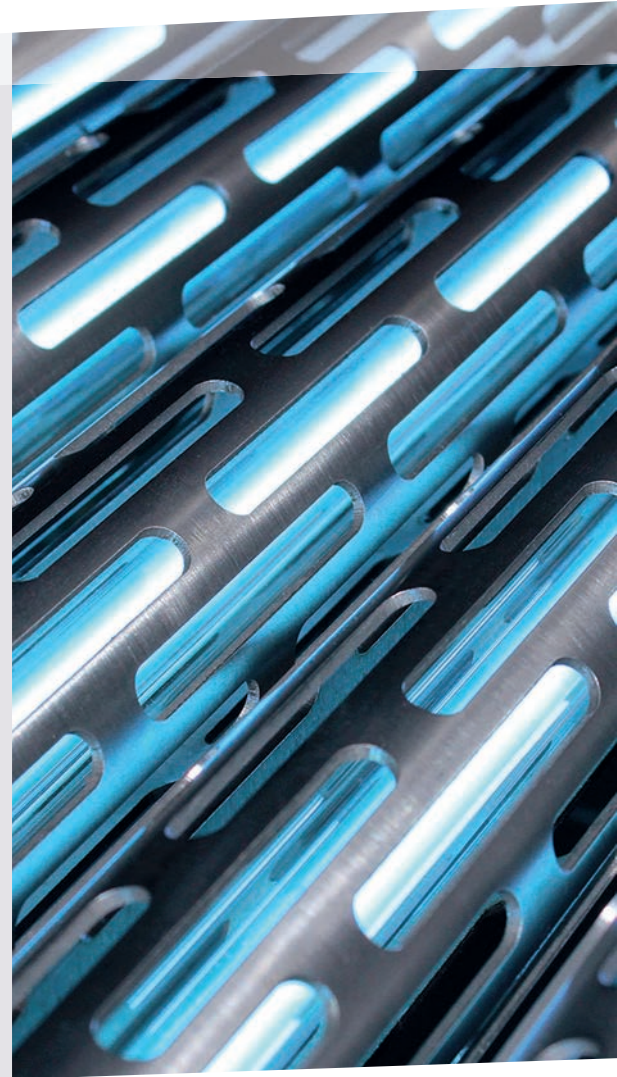
Extremely high UVC output 100 mW/cm² at 2 cm)

steriGATE® UV-Tunnel

The UV-C tunnel is a powerful system for effective surface disinfection in the food, pharmaceutical and medical technology sectors. Thanks to intensive UV-C irradiation, microorganisms are inactivated by up to 99.99% in a matter of seconds - without any chemicals or residues. The system is ideal as an airlock in high-care areas or as a pass-through system for safe sterilization before further processing steps. A specially developed roller system ensures shadow-free all-round disinfection of the products. The conveyor belt is also continuously irradiated and thus remains germ-free throughout the entire process.

Advantages

- Belt speeds from 1-11 m/min
- UV-C dose >100mJ/cm² at 5m/min
- LampSafe shatter protection
- Innovative roller conveyor system (patent pending)
- High performance UV-C technology
- HMI touch display for easy operation
- Easy cleaning and maintenance
- Low consumption costs



Application examples

- Packstoffentkeimung
- Entkeimung von verpackten Lebensmitteln
- Rohlingentkeimung
- Transportkistenentkeimung
- Rohstoff- & Produktentkeimungen

General technical data

Description	steriGATE UV-Tunnel
Dimensions (L x W x H)	4.725 x 1.140 x 1.710 mm
Main Connection Voltage	400V 3/N/PE
Network Frequency	50-60 Hz
Control Voltage	24 V
UV-Dose	>100 mJ/cm ²
Nominal Rating Power	4,0 kW



steriGATE® UV-Tunnel
Highest hygiene standards
for sensitive production areas



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).

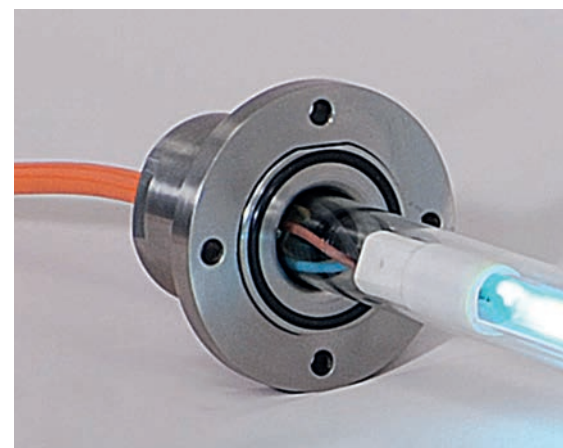
Advantages

- 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



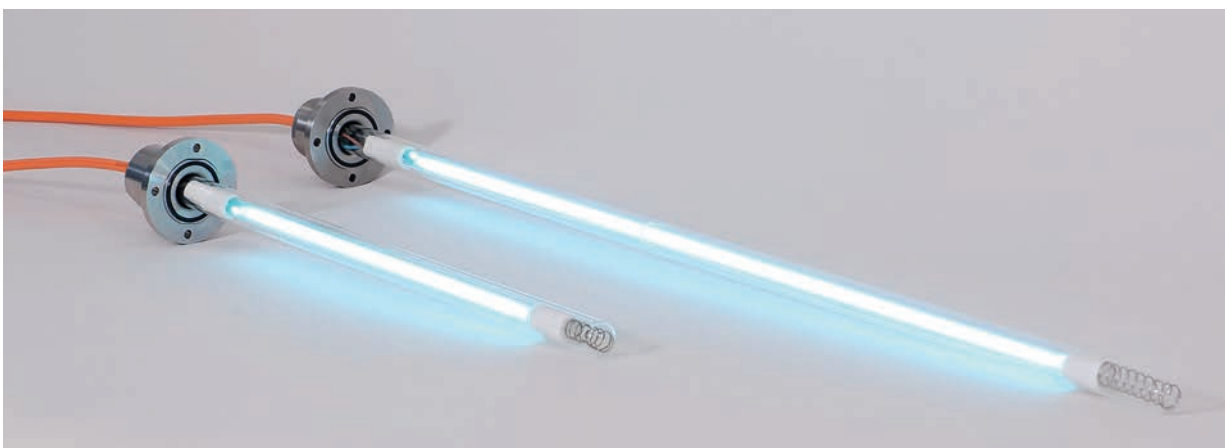
General technical data

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

Lamp data

Nominal lamp power	12 Watt	21 Watt	41 Watt	64 Watt	110 Watt
Intensity flux @ 254nm	3,4 W	7,3 W	18 W	20 W	43 W
Useful lamp life	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!



Water disinfection

Continuous tank sterilization for water tanks

steriCON®

The innovative UVC module for sustainable disinfection of water tanks! steriCON® uses state-of-the-art, patented UVC technology to ensure continuous and effective disinfection of water in closed tanks - without the use of chemicals. The water remains permanently pure, hygienic and safe. The fully waterproof module is specially designed for use in demanding environments and features a robust, shielded housing that reliably protects against material ageing.

Thanks to its simple integration into existing systems, steriCON® is ideal for a wide range of applications, from food processing to pharmaceutical and medical technology. The permanent mixing in the tank ensures uniform irradiation and maximum sterilization performance with high energy efficiency.

With steriCON® you can rely on an environmentally friendly, low-maintenance solution for permanently sterile water - safe, efficient and durable.



Advantages

- Fully waterproof (IP68)
- Shielded housing to protect against material ageing
- Permanent mixing
- Energy efficient

Application examples

- Water disinfection in plastic tanks
- For use in all closed tanks
- Cooling water from cooling towers
- Air washers
- Process water tanks
- Water disinfection for cullet/crushed ice machines, etc.





General technical data

Description	steriCON
Art. No.	66521
Immersion depth	komplett
Enclosing tube diameter	25 mm
Diameter upper head part	108 mm
Protection class	IP 68
Material	1.4404 / V4A
HSS Code	90275000

✓ For use in water

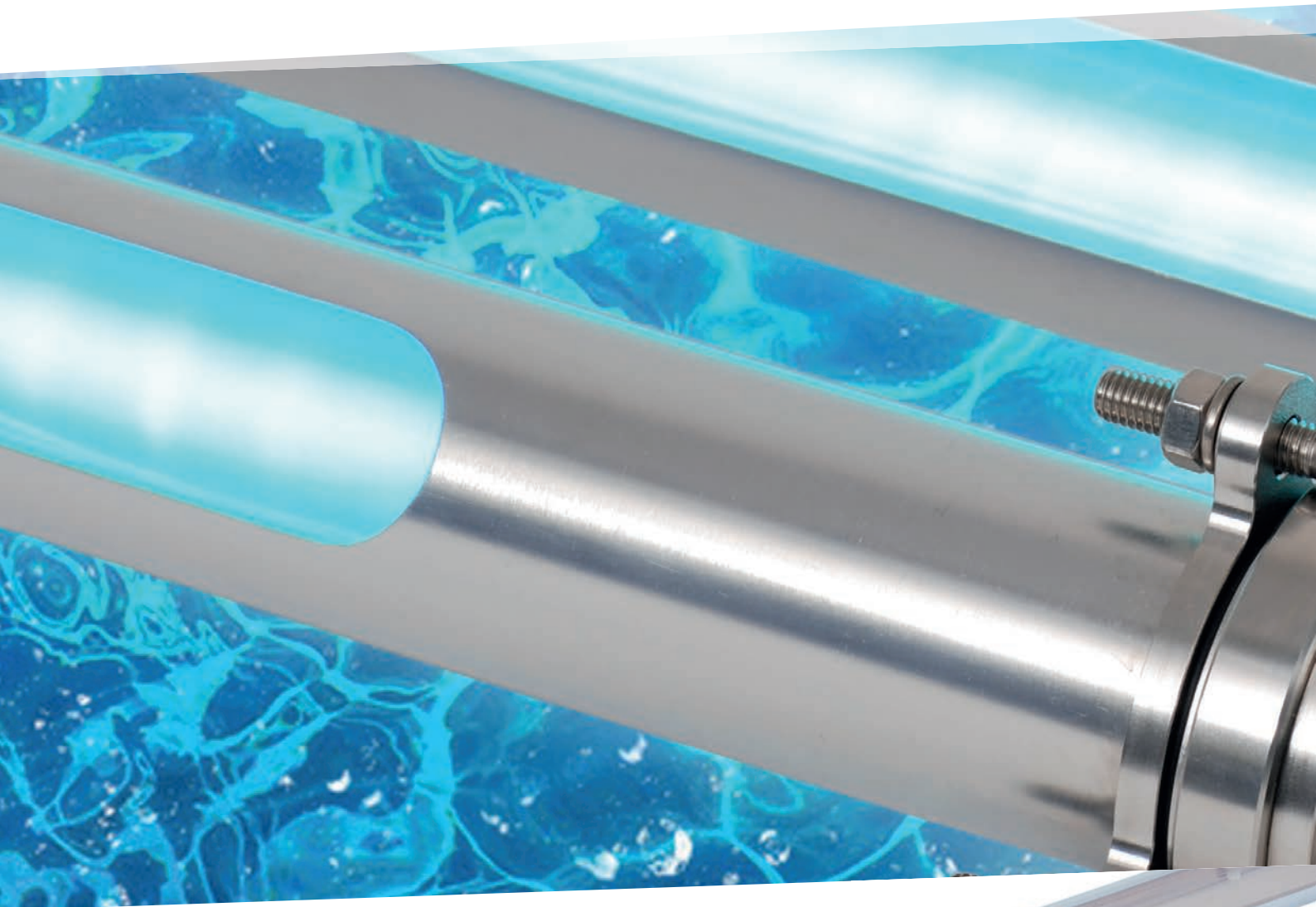
✓ Continuous flow

Lamp data

Nominal lamp power	70 Watt
Intensity flux @ 254nm	23 W
Useful lamp life	16.000 h

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.

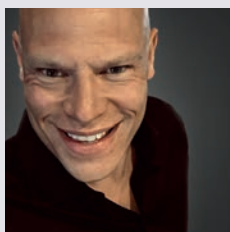
✓ Industry-resistant and robust

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.

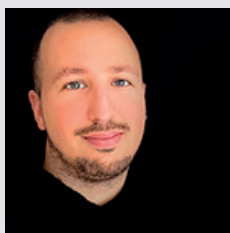


Bastian Engel

Head of sales, authorised officer
Application Manager (Sr.) Peschl Hygiene

+49 (0)6131 143845-11

b.engel@peschl-ultraviolet.com



Davide Onesti

Trainee Application Manager (Jr.)
Peschl Hygiene

+49 (0)6131 143845-16

d.onesti@peschl-ultraviolet.com

Peschl Ultraviolet GmbH
Weberstraße 19
55130 Mainz / Germany
Phone +49 (0) 6131 143 845-0
Fax +49 (0) 6131 143 845-90
Email service@peschl-ultraviolet.com

