STERIL SYSTEMS

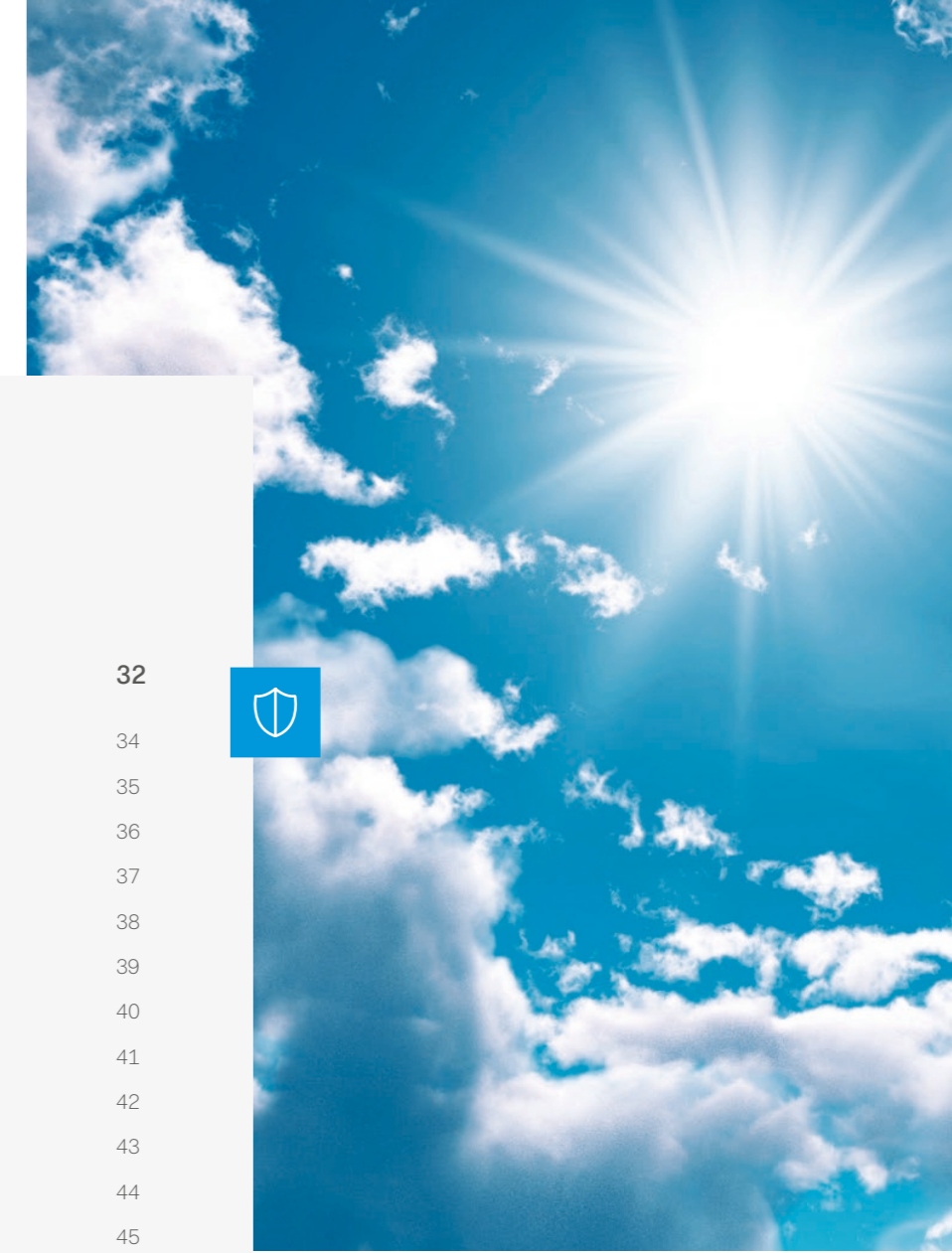## **Pure** Power of the sun

Disinfection with UV-C technology

100 % made in Austria

We are committed to the environment! We offer an innovative, completely chemical-free, energy-saving and environmentally-friendly method for quality assurance.

We create new paths with you! As pioneers in our field, our strength lies in acting quickly and decisively, addressing each of our customer's needs, and finding new solutions. We have the courage to move forward with our customers, constantly developing our company.

We understand your needs! We have the answer to each individual problem. We develop and produce the best solution, while making deliberate choices to achieve the best results!

Table of contents

About **STERILSYSTEMS**
High-end UV-C disinfection equipment.

UV-C radiation
At 100 to 200 nanometers, UV-C light is the spectrum of ultraviolet light with the shortest waves. Where the ozone layer is intact, this spectrum of ultraviolet light is filtered out of the sun's radiation spectrum before reaching the earth's surface.

Operating principle
High-energy UV-C light triggers a photochemical reaction. Wavelengths of 253.7 nm are absorbed by cell-nucleic acids, and kill and/or damage bacterial and fungal spores, depending on the amount of radiation. Therefore, UV-C light is used to cause targeted damage to or to kill microorganisms (such as bacteria/viruses, yeasts and molds).

The dosage principle
This refers to the basic influence of the factors time and power. The product of radiation time and radiation intensity is indicated as mJ/cm^2.
While microorganisms with a simple structure have a high sensitivity to UV-C light, meaning they can be deactivated easily with a low dosage, significantly higher energy levels are required to eliminate fungi and spores. Therefore, the effectiveness of UV-C for deactivating microorganisms is always directly related to the applied dosage.

Ozone formation from oxygen is caused by ultra-violet light at a wavelength of 185 nm.

The main spectrum used by STERILSYSTEMS UV-C emitters is 253.7 nm, which causes no ozone formation. High-energy UV-C radiation triggers a photochemical reaction. Wavelengths of 253.7 nm are absorbed by the cell-nucleic acids and inactivate and/or damage up to 99.9 % of bacterial and fungal spores, depending on the amount of radiation used.

185 nm

253.7 nm

ozone formation

UV-C

UV-B

UV-A

400 nm

visible area

780 nm

infrared
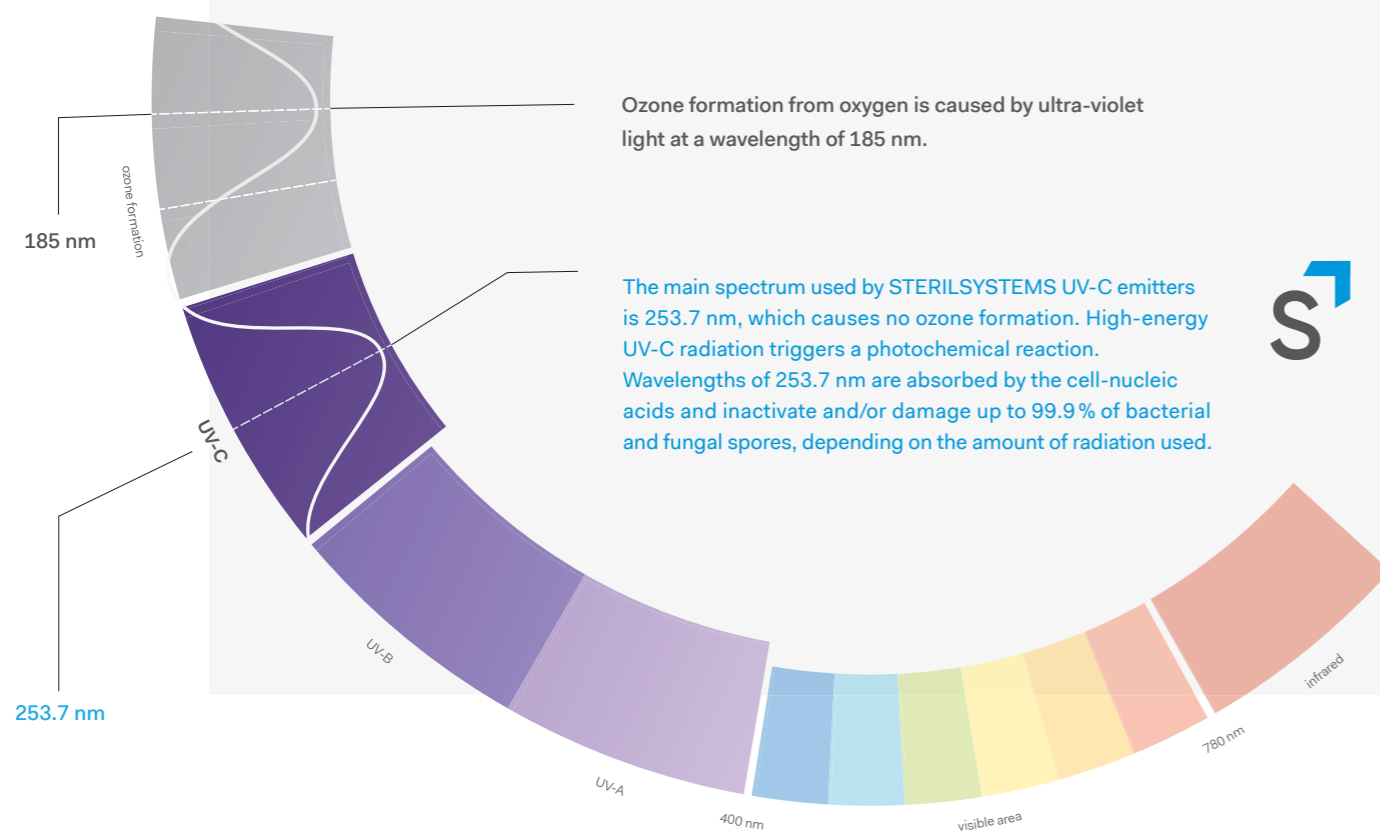
UV-C-rays are part of natural sunlight, and prevent the propagation of microorganisms.

Innovative UV-C disinfection technology offers direct advantages for many different applications:

Since the mechanism used in UV-C disinfection is based on a purely physical process, without chemicals, toxic compounds or the risk of building up resistance, it offers many possible applications for the food industry and trade, water suppliers, the fields of air conditioning/ventilation technology, as well as pharmaceutical, laboratory and hospital technology. UV-C disinfection ensures perfect hygiene in production and operations, guaranteeing sustainable quality assurance.
STERILSYSTEMS provides a comprehensive portfolio of products for **air disinfection, surface disinfection, water purification, odor removal and room air drying**, thereby making an important contribution to perfect hygiene management.

HPF Technoloy
HIGH-PERFORMANCE-TECHNOLOGY
2.5 TIMES HIGHER POWER
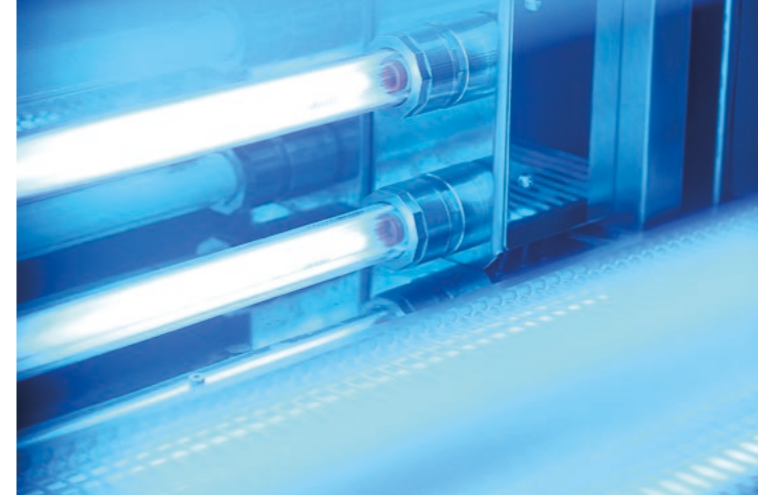
Disinfection up to

99,999 %

Technology

» **Up to 99,999 % germ reduction** – highly effective against bacteria, yeast, viruses and mold

» **Sustainable, chemical-free disinfection –** no residues, no NO_x - Stickoxyde

» **Excellent quality assurance –** unwanted microorganisms are reliably inactivated

» **No resistance build-up –** even effective against germs resistant to conventional disinfection

» **Dry process** – no moisture

» **Temperature-neutral** – no heating of media or surfaces

» **Cost security –** purchasing costs are easy to calculate, with low maintenance costs

Service life of up to

16.000 h

UV-C emitters

» **Long service life** – At 16.000 operating hours, the long service life of a UV-C emitter ensures consistently good disinfection results.

» **Very high UV-C output** – Emitters are optimized for every application, whether cold, warm or hot, thereby ensuring a consistently effective disinfection process

» **HPF technology** – specialized reflectors allow for targeted, precise disinfection and provide a 2.5x boost in performance over conventional UV-C emitters

» **Moisture protection** – most equipment and emitters are protected against moisture, wetness and water jets up to IP69K, thanks to a specialized moisture seal

» **Splinter protection** – emitters and quartz glass have splinter protection for special requirements

» **Simple maintenance** – customers can exchange emitters very easily with the help of a screw-in socket

High-quality stainless steel

ASI304/ ASI316

Equipment

» **High-quality stainless steel housing** – all equipment is constructed from high-quality stainless steel (AISI316/AISI304) and is completely rust-proof as well as acid and base resistant

» **Water spray protected** – to ensure safety, the electronic ballast is integrated into the housing and fulfills a rating of up to IP68/IP69K

» **Service display** – most equipment is designed with a visually revisable emitter exchange display

» **Status notification** – as an optional feature, our equipment can include a potential-free monitoring output

» **Simple operation** – we work to ensure operation is self-explanatory

» **High quality** – all equipment undergoes a three-stage electrical and functional inspection before shipping

» **Adaptability** – our equipment is adjusted to its environmental conditions

» **Hygienic design** – a well thought-out design ensures simple, reliable wet cleaning

» **Quick retrofitting –** Our equipment and modules are designed for quick retrofitting; they offer easy and flexible installation and can even be integrated into existing work processes

Pure quality is the foundation of our product system and offers a range of advantages.

Air disinfection

Air conditioning and ventilation equipment is essential to our lives today. Such systems are a fixed part of working environments, medical technology and the food industry. In addition to significantly extending the shelf lives of food, a clean environment also has positive impacts on work atmosphere and effectively prevents sick building syndrome in work facilities. STERILSYSTEMS calculates and optimizes disinfection components and required modules for specific applications. In addition, existing equipment can be upgraded or decentralized operating units can be installed.

The pure power of the sun

Air is a fundamental element of our world, providing us with well-being, energy and vitality.

STERILSYSTEMS calculates and optimizes UV-C air disinfection components for any application – specifically to handle pathogenic germs on difficult to clean surfaces or in narrow channels, and we do so with no chemicals – just the pure power of the sun.

PF
512
Air disinfection

The PF512 air disinfection unit offers the effective disinfection of room air which is already subject to circulation – for example caused by cooling evaporator fans.

Circulating room air flows through the air disinfection unit, which emits a dose of UV-C rays to reliably eliminate unwanted microorganisms.

Function the movable panel shields against direct radiation (personnel and foods)
Equipment The electronic ballast is integrated into the housing and protected against water

Assembly/maintenance May be mounted on the ceiling or wall; emitters can be exchanged easily via a screw-in socket
Options UV-C emitters can be fitted with splinter protection; design available with ozone emitters for additional odor neutralization

Technical data

TYPE	PF512ST1
Dimensions in mm L x W x H	900 × 130 × 88
Housing material	AISI304 or AISI316 stainless steel
Emitter ST1	1 × UV-C high efficiency / 16,000 h
Power in W	40
Voltage	230V ± 10% (50 – 60Hz)
Connection cable in m	3 incl. Schuko plug
Weight in kg	3.1
Protection class	IP54

AR
300–1500
Air and surface disinfection

AR devices are used to disinfect room air and surfaces without requiring personnel to be present.

Air, surfaces and work areas are disinfected to eliminate germs, viruses, yeasts and mold spores using UV-C light.

Function The direct action of UV-C emitters reliably eliminates microorganisms in room air and surfaces without any personnel present

Equipment The electronic ballast is integrated into the housing and protected against water
Assembly/maintenance May be mounted on the ceiling or wall; emitters can be exchanged easily via a screw-in socket
Options UV-C-emitters can be fitted with splinter protection

Technical data

TYPE	AR300	AR400	AR600	AR810	AR1000	AR1200	AR1500
Dimensions in mm L x W x H	390 × 107 × 52	490 × 107 × 52	700 × 107 × 52	900 × 107 × 52	1100 × 107 × 52	1300 × 107 × 52	1600 × 107 × 52
Housing material	AISI304 / KS stainless steel						
Emitter ST1	UV-C high efficiency / 16,000 h						
Power in W	13	18	29	40	50	61	77
Voltage	230V ± 10% (50 – 60Hz)						
Connection cable in m	3 incl. Schuko plug						
Weight in kg	1.5	2	2.3	3.5	4.2	4.9	6
Protection class	IP54						

ULE
1000
Ambient air disinfection unit

Applications

Small production areas | Small, low refrigerated units | Common areas and break rooms | Laboratories | Curing rooms | Restaurant refrigerated units and kitchens | Odor neutralization in changing rooms and storage rooms | Hygiene locks | Physician waiting rooms

The ULE1000 is designed for the effective disinfection of room air without air circulation.

This high-quality UV-C air disinfection unit with integrated fan reliably disinfects the air flow.

Function An integrated fan regulates air volume to the emitter design; reliably shields employees and foods
Equipment Integrated fan; full shielding of UV-C emitters ensures reliable personnel protection; the electronic ballast is integrated into the housing and protected

against water; LED service display – for an integrated operating hours display
Assembly/maintenance Delivered ready to plug in for flexible wall or ceiling installation; emitters can be exchanged easily via a screw-in socket.
Options Available with ozone emitters for additional odor neutralization

Technical data

TYPE	ULE1000
Dimensions in mm L x W x H	1000 × 127 × 176
Housing material	AISI316 stainless steel
Emitter ST1	1× UV-C high efficiency / 16,000 h
Power in W	40
Voltage	230V ± 10% (50 – 60Hz)
Connection cable in m	3 incl. Schuko plug
Weight in kg	7.4
Protection class	IP54

ULE
2000
Ambient air disinfection unit

The ULE2000 was developed specifically for the disinfection of rooms in which personnel are present and in difficult ambient conditions, or for high levels of contamination.

Applications

Production areas | Crate storage warehouses | Storage rooms | Odor neutralization for storage rooms | Condemned animal material / cutting rooms | Slicer rooms

This high-quality UV-C air disinfection unit with integrated fan reliably disinfects the air flow.

Function Adjusting the air volume to the design of the emitter with an integrated fan; reliably shielding employees and foods; no disruptive drafts; germ-free in every step of production – manufacturing, storage, refrigeration

Equipment Integrated quiet-running fan; full shielding of UV-C emitters provides reliable protection to personnel; the electronic ballast is integrated into the housing and protected against water; LED service display – for an integrated operating hours display
Assembly/maintenance Delivered ready to plug in for flexible ceiling installation; emitters can be exchanged easily via a screw-in socket.
Options Available with ozone emitters for additional odor neutralization

Ballast units designed specifically for the particular equipment type are required for ATEX certification, and must be mounted outside of the potentially explosive area.

Technical data

TYPE	ULE2000-2	ULE2000-4	ULE2000-6	ULE2000-4 EX
Dimensions in mm	D300 × L1100			D300 × L1400 × H450
Housing material	AISI316 stainless steel			
Emitter ST1	2× UV-C high efficiency / 16,000 h	4× UV-C high efficiency / 16,000 h	6× UV-C high efficiency / 16,000 h	4× UV-C high efficiency / 12,000h
Power in W	100	200	260	200
Voltage	230V ± 10% (50 – 60Hz)			
Connection cable in m	3 incl. Schuko plug			
Weight in kg	16.2	16.7	17.2	45
Protection class	IP54			

KB

1/2

Air disinfection unit

KB units are used to reliably disinfect air flow in smaller air conditioning and ventilation systems.
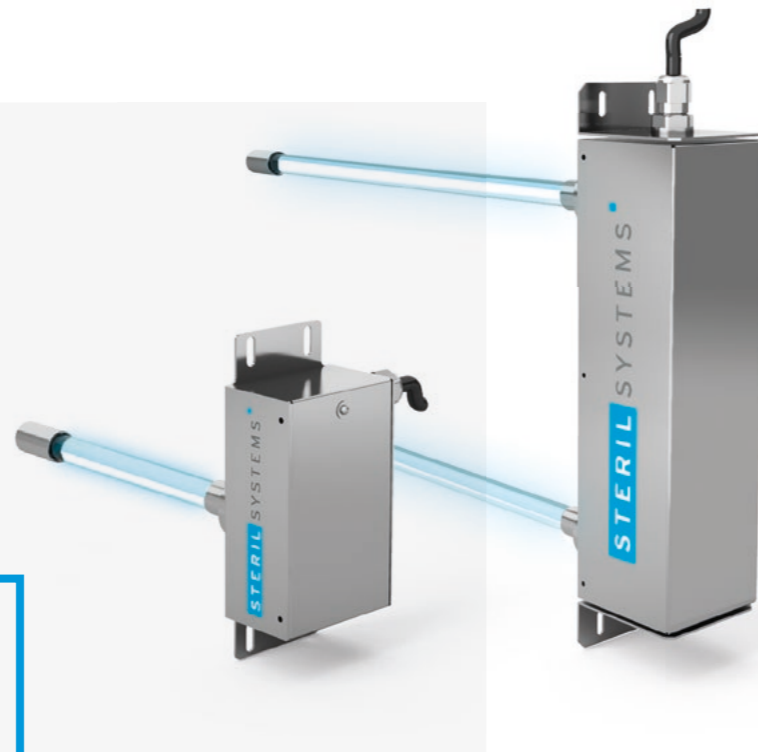
Applications

Ventilation housing | Ventilation ducts | Residential ventilation systems

Microorganisms formed in the ventilation system or brought in through outdoor air are efficiently deactivated and destroyed by this system. These UV-C air disinfection units help reduce sick building syndrome and infections.

Function KB1/KB2 suitable for small ventilation systems; supports the hygiene specifications of VDI Directive 6022

Equipment Moisture-protected UV-C emitter module with integrated electronic ballast; LED indicator for functional controlling

Assembly/maintenance Easy installation from the outside – can be integrated into existing work processes/ventilation systems

Options Available with ozone emitters for additional odor neutralization

Technical data

TYPE	KB 1	KB 2
Dimensions in mm L x W x H	140 × 72 × 47 emitter lengths 200 – 600mm	335 × 75 × 75 emitter lengths 200 – 600mm
Housing material	AISI304 stainless steel	
Emitter ST1	1× UV-C high efficiency / 16,000 h	2× UV-C high efficiency / 16,000 h
Power in W	7 – 29	14 – 58
Voltage	230V ± 10% (50 – 60Hz)	
Connection cable in m	3/6/10	
Weight in kg	0.7	2.3
Protection class	IP54	

TR

200–1800

Air and water disinfection system

The TR system is used to disinfect air flows in central air conditioning and ventilation systems, and to disinfect process water.

Applications

Ventilation housing | Ventilation ducts | Water tanks | Process water | OEM mechanical and plant engineering

With its many different applications, the TR system provides reliable disinfection in any moist environment. It is installed in the wall of the ventilation duct or water tank using a customized flange system and optional counter support.

Function The UV-C module is installed directly in the air duct/water tank

Equipment Ballast unit available separately or installed in the switch cabinet; high-quality, sealed UV-C emitter IP68

Assembly/maintenance Easily exchange the emitter via a screw-in socket; three attachment options are available:

Standard flange = TR
Installation in air conditioning/ventilation duct = TRKL
Installation in tank = TRT

Options LED indicator for easier functional controlling, remote signaling contact for function monitoring. Cable lengths 3/6/10 m

Technical data

TYPE	TR200	TR300	TR400	TR500	TR600	TR700	TR810	TR1000	TR1200	TR1500	TR1800
Dimensions in mm	D30×L250	D30×L350	D30×L450	D30×L450	D30×L650	D30×L750	D30×L860	D30×1050	D30×1250	D30×1550	D30×1850
Housing material	AISI316 stainless steel										
Emitter ST1	1× UV-C high efficiency / 16,000 h										
Power with Hg in W	7	13	18	23	29	35	40	50	61	77	92
Power with Amalgam in W			55				110				
Voltage	230V ± 10% (50 – 60Hz)										
Connection cable in m	3/6/10										
Weight in kg	0.47	0.5	0.54	0.57	0.6	0.62	0.67	0.73	0.78	0.8	0.83
Protection class	IP68										

KB
299
Air disinfection unit

KL
2–4
Air disinfection rack

The KB299 offers high-quality finishing that provides the efficient UV-C disinfection of air flows in central air conditioning and ventilation systems.

The KL Rack is used to disinfect the air flow in large or very large central air conditioning- and ventilation systems.
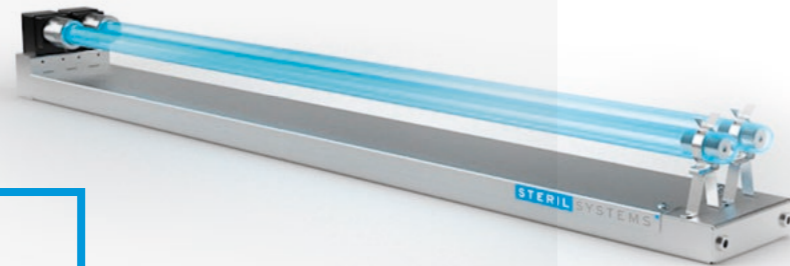
Applications

Laboratories | Ventilation housing | Ventilation ducts | Sterile workbenches

Applications

Ventilation housing | Ventilation ducts

Microorganisms formed in the ventilation system or brought in through outdoor air can be eliminated using this system. These UV-C air disinfection units help reduce sick building syndrome and infections.

Function KB299 is suitable for larger ventilation systems; can be integrated into existing work processes/ventilation systems; supports the hygiene specifications of VDI directive 6022; series connection of individual modules possible

Equipment Moisture-protected UV-C emitter module with reflectors and integrated electronic ballast; LED indicator for functional controlling
Assembly/maintenance Easy installation from the outside – can be integrated into existing work processes/ventilation systems; placed inside of the ventilation housing
Options Available with ozone emitters for additional odor neutralization

The KL Rack is used to disinfect the air flow in large or very large central air conditioning- and ventilation systems. Microorganisms formed in the ventilation system or brought in through outdoor air can be eliminated using the KL Rack.

Function KL is suitable for large to very large ventilation systems (up to 200,000m³/h); supports the hygiene specifications of VDI directive 6022; low pressure loss
Equipment Assembly unit ready to install; functional and control electronics mounted outside of the module in an external switch cabinet

Assembly/maintenance Easy installation with adjustable assembly angle; can be integrated into existing work processes/ventilation systems
Options Available with ozone emitters for additional odor neutralization; LED indicator for functional controlling

Technical data

TYPE	KB299K + KB299W
Dimensions in mm L x W x H	990 × 90 × 105
Housing material	AISI316 stainless steel
Emitter ST1	2 × UV-C high efficiency / 16,000 h
Power in W	200
Voltage	230V ± 10% (50 – 60Hz)
Connection cable in m	3/6/10
Weight in kg	4.8
Protection class	IP54

Technical data

TYPE	KL 2	KL 3	KL 4
Dimensions in mm L x W x H	295 – 1595 × 65 × 460 (50±)	295 – 1595 × 65 × 860 (50±)	295 – 1595 × 65 × 860 (50±)
Housing material	AISI304 stainless steel		
Emitter ST1	2× UV-C high efficiency / 16,000 h	3× UV-C high efficiency / 16,000 h	4× UV-C high efficiency / 16,000 h
Power in W	80	120	160
Voltage	230V ± 10% (50 – 60Hz)		
Connection cable in m	3/6/10		
Weight in kg	2.5	3.6	4.6
Protection class	IP54		

KLM
2000

Air disinfection module

The KLM module was specifically developed for the UV-C disinfection of the air flow in central air conditioning and ventilation systems.

Applications

Food industry | Ventilation systems | Hospitals | Pharmaceutical industry | Residential ventilation systems | Public ventilation systems

The KLM module stands out for its high-quality finishing and custom adaptability.

Function The finished module is easy to retrofit and integrate into existing systems, and can be installed directly in the ventilation duct; the module supports the hygiene specifications of VDI directive 6022; protective tube offers optimal protection against moisture

Equipment the module is delivered with a galvanized or AISI316 housing and is ready to connect, including controller.

Assembly/maintenance Simple installation; emitters can be exchanged easily via a screw-in socket

Option Available with ozone emitters for additional odor neutralization/upon request, the KLM can be equipped with an LED indicator for functional controlling

Technical data

TYPE	KLM2000
Dimensions in mm L x W x H	Depending on volume flow rate
Housing material	Galvanized steel or stainless steel
Emitter ST1	UV-C high efficiency / 16,000 h
Power in W	Depending on volume flow rate
Voltage	230V ± 10% (50 – 60Hz)
Connection cable in m	3/6/10
Weight in kg	Depending on size
Protection class	IP68

SLM
6/3

Disinfection air-module

The SLM6/3 is used to disinfect the airless area of tanks or containers and to disinfect intake air.

Applications

Ventilation systems | Ventilation ducts | Airless areas of tanks/containers

The SLM6/3 is used to guide air through three filter stages (G4, F7, H13) for treatment and filtration. Then the air is disinfected by the UV-C module, after which it is blown into the existing tank.

Function Filtering and UV-C disinfection are combined into just one device, allowing for the reliable elimination of dust particles, suspended and polluting materials and microorganisms ; dry, heat-free and chemical-free disinfection

Equipment Module contains three filter stages (G4, F7, H13) and the UV-C module; UV-C emitters are waterproof with a protective glass; switch cabinet contains operating hours counter and remote signaling contact for functional monitoring

Assembly/maintenance The module is mounted upstream of the suction channel; maintenance can easily be performed on the filter and emitter from the outside

Technical data

| TYPE	SLM6/3	
Dimensions in mm L x W x H	1830 × 713 × 435	
Housing material	Galvanized steel or stainless steel	
Emitter ST1	UV-C high efficiency / 16,000 h	
Power in W	300	
Voltage	230V ± 10% (50 – 60Hz)	
Connection cable in m	3/6/10	
Weight in kg	70	
Protection class	IP68	
Filter stage 1	Filter class G4 as per EN779:2012	Average degree of separation (Am) of the synthetic test dust (%) G4: 90 ≤ Am
Filter stage 2	Filter class F9 as per EN 779:2012	Minimum effectiveness at 0.4 μm F9 70%, mean effectiveness (Em) of 0.4 μm 95 ≤ Em
Filter stage 3	Filter class H13 as per EN 1822 aerosol filter	Filter class H13 as per EN 1822 aerosol filter

VD
500–1800
Evaporator disinfection
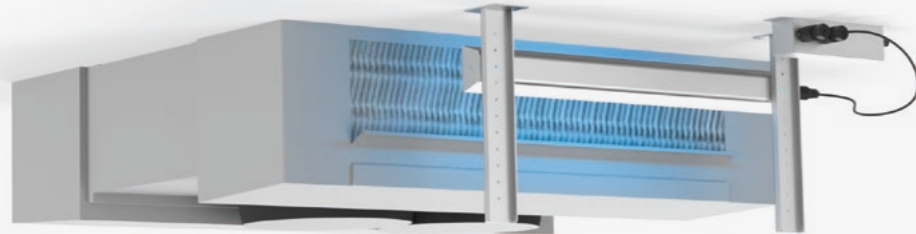
Evaporator disinfection is used for the on-going disinfection of evaporator fins, thereby preventing the formation of a biofilm.

The unit prevents the formation of a biofilm, which has a negative impact on heat and cold transmission and re-contaminates the room air with bacteria and mold. This prevents odor formation in the ventilation system.

Function Keeping fins clean reduces the germ load in the air, optimizes heat transmission and drastically reduces energy costs; no additional chemicals required for disinfection

Equipment The system includes reflectors and mounting consoles that allow for variable adjustment of the height position and targeted disinfection; the electronic ballast is in a water-tight stainless steel housing

Assembly/maintenance Simple, flexible and inexpensive installation for retrofitting any evaporator system
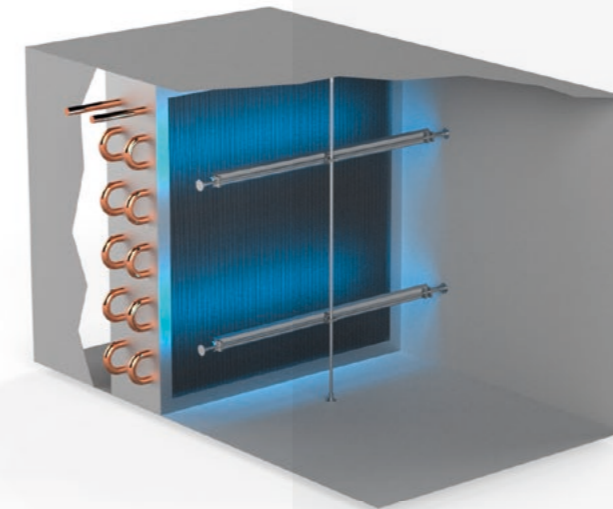
Technical data

TYPE	VD500	VD0600	VD0810	VD1000	VD1200	VD1500
Dimensions in mm L x W x H	600 × 53 × 88	700 × 53 × 88	910 × 53 × 88	1100 × 53 × 88	1300 × 53 × 88	1600 × 53 × 88
Housing material	AISI304 stainless steel					
Emitter ST1	UV-C high efficiency / 16,000 h					
Power in W	23	29	40	50	61	77
Voltage	230V ± 10% (50 – 60Hz)					
Connection cable in m	3 incl. Schuko plug					
Weight in kg	2	2.1	2.4	2.7	3	3.4
Protection class	IP68					

CD
300–1800
Heat exchanger/evaporator disinfection

The coil disinfection unit is used for the permanent disinfection of heat exchanger fins/coils, and prevents biofilm buildup on the fins, inside ducts.

The coil disinfection unit is used for the permanent disinfection of heat exchanger fins/coils, and prevents biofilm buildup on the fins. This means heat and cold transmission are not impacted, maintaining consistent performance for the evaporator or heat exchanger.

Function Stainless steel reflectors direct targeted radiation to the fins; different emitters allow for both cold and hot use; drastically reduce energy/maintenance and cleaning costs by restoring heat transmission

Equipment Very high-quality UV-C emitter, designed for 16,000 operating hours

Assembly/maintenance Essy, fast, flexible and cost-effective installation for almost any ventilation system, regardless of its size

Option UV-C emitters can be equipped with splinter protection, and additional bar installation systems and wall brackets are available

Technical data

TYPE	CD300	CD500	CD700	CD810	CD1000	CD1200	CD1500	CD1800
Dimensions in mm L x W x H	320 × 20 × 80	520 × 20 × 80	720 × 20 × 80	830 × 20 × 80	1020 × 20 × 80	1220 × 20 × 80	1520 × 20 × 80	1820 × 20×80
Housing material	AISI304 stainless steel							
Emitter ST1	UV-C high efficiency / 16,000 h							
Power in W	13	23	35	40	50	61	77	92
Voltage	230V ± 10% (50 – 60Hz)							
Connection cable in m	3/6/10							
Weight in kg	2	2.1	2.4	2.7	3	3.4	3.8	4.2
Protection class	IP68							

Drinking water is a
key future concern,
as well as a responsibility.

Drinking water, swimming, cosmetics and
medical products; water in all its variety is
one of our most valuable resources, and may
not contain pathogens or contamination.
Disinfection with ultra-violet light, without
chemical or thermal processes, has many
advantages.

99.99 % germ reduction through UV-C treatment
with STERILSYSTEMS with 100 % retention of
minerals, taste, color and scent, as well as pH level.
and we do so with no chemicals – just the pure
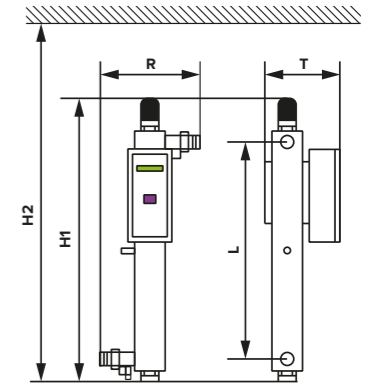power of the sun.

Pure
quality

ASUV
27–1250
Certified water disinfection

The certified AQUASTERA/AquaUVtron water disinfection system uses UV-C technology to provide reliable drinking water disinfection – without changing the original properties of the water.

Applications

Drinking water supply in public and commercial sectors | Hospitals and clinics | Food industry | Clean and ultra-pure water disinfection | Industrial process water | Cold and hot water systems | Pharmaceutical and chemical industry | beverage industry | Swimming and whirlpools

Function UV-C disinfection reduces pathogenic germs in the water by 99.99 %, without the use of chemicals. The disinfection process is entirely physical – pH level, color and mineral content, taste and odor remain completely unchanged! The AQUASTERA/AquaUVtron disinfection system works at a dose of 400J/m² – as verified by biometric testing and certified by the ÖVGW and DVGW.

Equipment Compact AISI316 stainless steel housing, electropolished; hard quartz protective tube; high-performance emitters designed for up to 12,000 operating hours; operating pressure up to 12 bar; emitter monitoring; selective UV-C intensity monitoring in accordance with DVGW/ÖVGW and certification; LCD with display of

absolutely UV-C intensity in W/m² rel. in %; operating hours and dose in J/m²; potential-free signaling contacts for alarm and pre-alarm 4-20 mA; output to activate a throw valve; remote switching contact

Assembly/maintenance Complete assembly manual; very simple operation; integrated wall mounting plate

Options Temperature monitoring available with PT100 throw valve; shut-off valve, alarm signal transmission via cable or wireless; TFT touch screen with data logger; spectrometer probe for continuous quality monitoring; UV-transmission with 254nm, FNU turbidity, coloration

Technical data

DEVICE TYPE DVGW AQUASTERA	ASUV27	ASUV46	ASUV90	ASUV180-F	ASUV300-F	ASUV500-F	ASUV750-F	ASUV1250-F	UNIT
DEVICE TYPE ÖVGW AQUAUVTRON	A27	A46	A90	A180-F	300-F	A500-F	A750F	A1250-F	UNIT
Nom. flow at T10 = 98%									
Cold water to 38 °c	2.8	3.7	10.2	18.9	26.3	53.4	95.3	140.2	m3/h
Hot water to 65 °c	n.a.	3.5	7.5	10	19	32	50	97	m3/h
Power consumption	55	80	150	230	265	530	1,060	1,590	Watt
UV-C Red dose at 254 nm	>400	>400	>400	>400	>400	>400	>400	>400	J/m2
Rated emitter power	41	65	135	205	238	238	238	238	Watt
Number of emitters	1	1	1	1	1	2	4	6	pieces
UV-C power output at 254 nm	14.3	20	43	65	90	90	90	90	Watt
Service life approx.	8,700	12,000	12,000	12,000	12,000	12,000	12,000	12,000	h
Temperature range									
Water	4 – 38	4 – 65	4 – 65	4 – 65	4 – 65	4 – 65	4 – 65	4 – 65	°C
Operating environment	4 – 45	4 – 45	4 – 45	4 – 45	4 – 45	4 – 45	4 – 45	4 – 45	°C
Max. operating pressure	12	12	12	12	12	12	12	12	bar
Connections without screw-fitting	R 1 1/4" ET	R 1 1/2" ET	R 2" ET	DN 65	DN 80	DN 100	DN 125	DN 150	
Connections incl. screw-fitting	R 1" ET	R 1 1/4" ET	R 1 1/2" ET	n.A	n.A	n.A	n.A	n.A	
Dimensions									
Installed width R (w/o. ver.) and depth D	236 × 244	261 × 269	261 × 269	360 × 295	369 × 339	423 × 219	458 × 254	509 × 305	mm
Installed width R (w. ver.) and depth D	320 × 244	353 × 269	381 × 269	n.A	n.A	n.A	n.A	n.A	mm
Intake and outlet height L	733	337	734	970	957	931	906	877	mm
Installed height H1	925	533	942	1,198	1,198	1,198	1,198	1,198	mm
Room height H2	1,775	991	1,810	2,251	2,251	2,251	2,251	2,251	mm
Rec. Maintenance height H3	850	458	868	1,053	1,053	1,053	1,053	1,053	mm
Chamber type	G-4-800	G-5-400	G-5-800	G6-1000-F	G-7-1000-F	G-9-1000-F	G-10-1000-F	G-12-1000-F	
Weight									
Irradiation chamber	9.1	8.8	11.9	17.8	25.5	38	40	85	kg
Control unit	2.2	2.4	2.4	3	4.1	12	14	20	kg
Protective class	IP65	IP65	IP65	IP65	IP65	IP 54	IP 54	IP 54	
Materials									
Irradiation chamber	1.4404 ASI316	1.4404 ASI316	1.4404 ASI316	1.4404 ASI316	1.4404 ASI316	1.4404 ASI316	1.4404 ASI316	1.4404 ASI316	
Control unit	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Polycarbonate	Coated steel	Coated steel	Coated steel	

WDS
12–1040
Water disinfection

The WDS series is used to reliably disinfect private drinking water and process water, pond, fish farming or bathing water.

Multiple emitter systems

80S–1040S

Single emitter systems

12S–40S

The WDS series is used to reliably disinfect private drinking water and process water, pond and fish farming or bathing water. The UV-C light reliably removes unwanted microorganisms, while guaranteeing that the water retains all of its valuable minerals.

Function Purely physical disinfection – the disinfection process is odor neutral, fault-free and produces no residue, since it runs on a purely physical basis and requires no chemicals
Equipment High-quality quartz protective tube; electropolished AISI316 stainless steel housing;

LED indicator lights for functional monitoring; operating hours counter; ballast and control electronics in the switch cabinet
Assembly/maintenance Easy to understand assembly instructions; simple installation thanks to compact design; can be integrated into existing pressure lines; easy maintenance without additional maintenance costs; water does not need to be turned off
Option Temperature compensation – solenoid valve and thermostat switch

Technical data

TYPE	12S	30S	40S	80S	120S	160S	240S	320S	520S	780S	1040S	UNIT
Material	AISI304					AISI 316 stainless steel						
Drinking water flow rate 400J/m² T98%	0.2	1.2	2.4	4.6	7	9	15	20	33	50	65	m³/h
Number of emitters	1	1	1	2	3	4	6	8	8	12	16	pieces
Emitter service life					9000							h
Connection	1/4	3/4	1	1 1/2	2	2	3	3	3	4	4	inch
Power	12	30	40	80	120	160	240	320	520	780	1040	Watt
Voltage					230 V ± 10% (50 – 60 Hz)							Volt
Working pressure					5 – 10							bar
Working temperature					2 – 45							°C
Dimensions	H 265 D 60	H 510 D 60	H 920 D 60	H 920 D 135	H 920 D 135	H 940 D 200	H 940 D 255	H 940 D 255	H 940 D 308	H 940 D 325	H 940 D 300	mm
Switch cabinet dimensions	W 90 H 180 D 80	W 254 H 180 D 111	W 254 H 180 D 111	W 361 H 254 D 111	W 361 H 320 D 111	W 361 H 320 D 111	W 361 H 320 D 111	W 380 H 320 D 111	W 500 H 380 D 210	W 800 H 600 D 250	W 600 H 1000 D 250	mm
Weight	1.25	3.5	5	12	13	13	13	32.5	33	45	52	kg

TL
200–1200
Immersion emitters

The TL immersion emitter system is designed to effectively disinfect water in air washers, cooling towers, fountains, tanks, humidification systems or ponds.
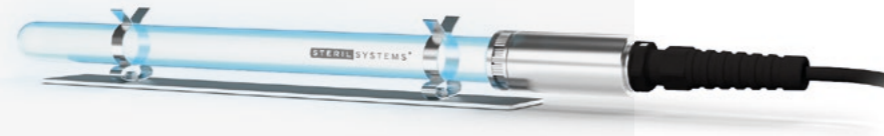
The TL immersion emitter system is designed to effectively disinfect water in air washers, cooling towers, fountains, tanks, humidification systems or ponds. These high-quality UV-C emitters expose the water to a high dose of UV-C, killing unwanted microorganisms and preventing algae growth.

Function The immersion emitters are placed directly in systems/water basins using a stainless steel plate or attached directly to the container

Equipment Completely waterproof unit – protective class IP68; customer-specific electronic ballast
Assembly/maintenance Attached directly to the container or inserted in the basin/system with the use of a stainless steel plate
Option TS system 6m/10m connection cable extension; turnkey ready; Amalgam high-power emitters; emitter length 400mm and 810mm contains power unit with integrated ballast electronics

Technical data

TYPE	TL 200	TL 300	TL 400	TL 500	TL 600	TL 700	TL 810	TL 1000	TL 1200	TL 1500
Dimensions in mm	D30×L250	D30×L350	D30×L450	D30×L450	D30×L650	D30×L750	D30×L860	D30×L1050	D30×L1250	D30×L1550
Housing material	AISI316 stainless steel									
Emitter ST1	1x UV-C high efficiency / 16,000 h									
Power with Hg in W	7	13	18	23	29	35	40	50	61	77
Power with Amalgam in W			55				110			
Voltage	230V ± 10% (50 – 60Hz)									
Connection cable in m	3/6/10									
Weight in kg	0.47	0.5	0.54	0.57	0.6	0.62	0.67	0.73	0.78	0.8
Protection class	IP68									

Other lengths upon request

TS
200–1200
Immersion emitter with single switch box

The TS immersion emitter system with an additional single switch box is designed to effectively disinfect water in air washers, cooling towers, fountains, tanks, humidification systems or ponds.

Applications

Air washers | Cooling towers | Fountains | Humidifiers | Filter systems (fish farming) | Algae prevention in pond filters | Water tanks | OEM machine and system construction | Breweries | Swimming and whirlpools

The TS immersion emitter system is designed to effectively disinfect water in air washers, cooling towers, fountains, tanks, humidification systems or ponds. These UV-C emitters expose the water to a high dose of UV-C, killing unwanted microorganisms and preventing algae growth.

Function The immersion emitters are placed directly in systems/water basins using a stainless steel plate or attached directly to the container

Equipment Amalgam high-power emitters; completely waterproof unit – protective class IP68; contains power unit with integrated ballast electronics
Assembly/maintenance Turnkey ready; attached directly to the container or inserted in the basin/system with the use of a stainless steel plate
Option 6m/10m connection cable extension

Technical data

TYPE	TS 200	TS 300	TS 400	TS 500	TS 600	TS 700	TS 810	TS 1000	TS 1200	TS 1500
Dimensions in mm	D30×L250	D30×L350	D30×L450	D30×L450	D30×L650	D30×L750	D30×L860	D30×L1050	D30×L1250	D30×L1550
Housing material	AISI316 stainless steel									
Emitter ST1	1x UV-C high efficiency / 16,000 h									
Power with Hg in W	7	13	18	23	29	35	40	50	61	77
Power with Amalgam in W			55				110			
Voltage	230V ± 10% (50 – 60Hz)									
Connection cable in m	3/6/10									
Weight in kg	0.47	0.5	0.54	0.57	0.6	0.62	0.67	0.73	0.78	0.8
TS single switch box weight in kg					1.95					
Protection class	IP68									

Other lengths upon request

Purely hygienic **surfaces**. Completely without chemicals, on a purely physical basis.

Germ-free production is essential in food processing companies, particularly in meat and sausage cutting, slicing and producing convenience products or cutting rooms that process fruit and vegetables into fresh cut products.

Clean surfaces

UV-C surface disinfection equipment from STERILSYSTEMS serve as key quality components in the hygiene chain and ensure hygienically pure production.

FB
200–1200

Cutting belt / conveyor belt disinfection

The FB-HPF system is used for the ongoing disinfection of conveyor and cutting belts, as well as of surfaces and foils.

Applications

Conveyor belts | Cutting belts | Plastic link belts | Steel belts | Bucket belts

The FB-HPF system provides reliable disinfection in the ongoing production process for conveyor and cutting belts, as well as for surfaces and foils.

Function The push-in/folding frame is mounted in a fixed location, and the device housing with high-performing UV-C emitters can be removed with no tools for cleaning/maintenance. When the device housing is removed, the safety switch-off control automatically turns off the UV-C emitters; the waterproof design allows for wet cleaning; UV-C light is fully shielded, rendering it harmless for employees.

Equipment HPF technology – 2.5x power thanks to high-performance UV-C emitters (waterproof design IP69k); two maintenance designs available (push-in or folding frame); splinter protection
Assembly/maintenance A full maintenance manual is included. The device housing can be easily removed without tools, and the emitters are exchanged via a screw-in socket

Technical data

TYPE	FB2 200	FB2 300	FB2 400	FB2 500	FB2 600	FB2 810	FB2 1000	FB2 1200
Dimensions in mm L x W x H	415×307×85	515×307×85	615×307×85	715×307×85	815×307×85	1025×307×85	1215×307×85	1415×307×85
Housing material	AISI304 stainless steel							
Emitter ST1	2× UV-C high efficiency / 12,000 h							
Power in W	16	26	36	46	58	80	100	122
Voltage	230V ± 10% (50 – 60Hz)							
Connection cable in m	3m							
Weight in kg	15.8	16.6	20.6	21.6	22.4	24.9	27.4	31
Protection class	IP69K							

TYPE	FB4 200	FB4 300	FB4 400	FB4 500	FB4 600	FB4 810	FB4 1000	FB4 1200
Dimensions in mm L x W x H	415×307×85	515×307×85	615×307×85	715×307×85	815×307×85	1025×307×85	1215×307×85	1415×307×85
Housing material	AISI304 stainless steel							
Emitter ST1	4× UV-C high efficiency / 12,000 h							
Power in W	32	52	72	92	116	160	200	244
Voltage	230V ± 10% (50 – 60Hz)							
Connection cable in m	3m							
Weight in kg	16	16.7	21	22.7	24.2	26.4	38.3	39.3
Protection class	IP69K							
Max. belt width in mm	220	320	420	520	620	830	1020	1220

FBS
400–600

Slicer/conveyor belt disinfection

The FBS system is used to disinfect slicer and conveyor belts in small areas.

Applications

Slicer belts | Conveyor belts

The FBS system is used to disinfect slicer and conveyor belts in small areas. The UV-C unit is mounted on the is mounted on the "underside" of the belt, ensuring ongoing disinfection.
The performance and dimensions of the device are adapted to the speed and width of the conveyor belt.

Function The belt surface is disinfected each time the belt turns over.

Equipment Compact UV-C unit design specialized for small spaces; waterproof UV-C emitters with splinter protection fulfill class IP69K and prevent penetration by moisture during cleaning; the UV-C emitter housing can be removed with a quick connection system
Assembly/maintenance Simple installation on the "underside" of the belt; quick connection system for emitter housing allows for easy removal
Option Electronic ballast integrated into the waterproof housing

Technical data

TYPE	FBS400	FBS500	FBS600
Dimensions in mm L x W x H	400×126×37 – 69	500×126×37 – 69	600×126×37 – 69
Housing material	AISI304 stainless steel		
Emitter ST1	UV-C high efficiency / 16,000 h		
Power in W	18	23	29
Voltage	230V ± 10% (50 – 60Hz)		
Connecting cable	3/6/10		
Weight in kg	16.2	16.7	17.2
Protection class	IP68		

FS
200–1800
Surface disinfection

Applications

Laboratories | Pharmaceutical industry | Food production | Packaging lines | Drink industry | Screen systems | Conveyor systems | Proofing cabinets / systems | OEM machine and equipment building

The FS system is used to disinfect surfaces and unwanted microorganisms.

Function The design of the UV-C emitters can be individually coordinated to each disinfection area. The compact and waterproof design of the UV-C unit with splinter protection allows for flexible use.
Equipment High-quality UV-C emitter; splinter protection

Assembly/maintenance Ready to plug-in – cable length 3m; emitters can be exchanged by the operator
Option Electronic ballast mounted in the switch cabinet or available separately; LED indicator for easier functional control; remote signaling contact for function monitoring

Technical data

TYPE	FS200	FS300	FS400	FS500	FS600	FS700	FS810	FS1000	FS1200	FS1500	FS1800
Dimensions / installed length in mm	D50×L242	D50×L342	D50×L442	D50×L542	D50×L642	D50×L742	D50×L852	D50×L1042	D50×L1242	D50×L1542	D50×L1842
Housing material	AISI304 stainless steel										
Emitter ST1	UV-C high efficiency / 12,000 h										
Power in W	7	13	18	23	29	35	40	50	61	77	92
Voltage	230V ±10% (50–60Hz)										
Connection cable in m	3/6/10										
Weight in kg	0.55	0.57	0.58	0.6	0.62	0.64	0.66	0.69	0.73	0.78	0.84
Protection class	IP67										

FR
300–1500
Surface disinfection

Applications

Laboratories | Pharmaceutical industry | Food production | Packaging lines | Drink industry | Screen systems | Conveyor systems | Proofing cabinets / systems | OEM machine and equipment building

The FR system with HPF reflector is suitable for the disinfection of particularly heavy surface contamination.

HIGH-PERFORMANCE-TECHNOLOGY
HPF Technoloy
2.5 TIMES HIGHER POWER

Function The HPF reflector provides up to 2.5x better performance, generating concentrated and strong UV-C illumination.
Equipment Powerful UV-C emitter with additional HPF technology reflectors, for targeted and precise disinfection

Assembly/maintenance Ready to plug-in – cable length 3m; emitters can be exchanged by the operator
Option Electronic ballast mounted in the switch cabinet or available separately; LED indicator for easier functional control; remote signaling contact for function monitoring

Technical data

TYPE	FR300	FR400	FR500	FR600	FR700	FR810	FR1000	FR1200	FR1500
Dimensions in mm L x W x H	342 × 64 × 54	442 × 64 × 54	542x × 64 × 54	642 × 64 × 54	742 × 64 × 54	852 × 64 × 54	1042 × 64 × 54	1242 × 64 × 54	1542 × 64 × 54
Housing material	AISI304 stainless steel								
Emitter ST1	UV-C high efficiency / 16,000 h								
Power in W	13	18	23	29	35	40	50	61	77
Voltage	230V ±10% (50–60Hz)								
Connection cable in m	3/6/10								
Weight in kg	1.15	1.25	1.35	1.4	1.7	1.8	2.2	2.6	2.8
Protection class	IP67								

FS32

200–1500

Surface disinfection

HPF Technoloy
HIGH-PERFORMANCE-TECHNOLOGY
2.5 TIMES HIGHER POWER

The FS32 system with HPF technology provides powerful surface disinfection. The waterproof design and splinter protection allow it to be used even in sensitive areas.

Applications

Packaging lines | Food production | Pharmaceutical industry | Drink industry | Screen systems | OEM machine and system construction | Laboratories

Function The HPF technology with reflectors provides up to 2.5x higher performance. The UV-C emitter is located in a protective tube with splinter protection. The entire device is designed to be waterproof, making it a good choice to disinfect heavily contaminated surfaces under difficult conditions.
Equipment Individually adaptable UV-C emitter power; IP68 – waterproof design prevents moisture penetration;

protective tubes with splinter protection provide high break-resistance during cleaning and handling
Assembly/maintenance Ready to plug-in – cable length 3m; emitters can be exchanged by the operator
Option Electronic ballast mounted in the switch cabinet or available separately; LED indicator for easier functional control; remote signaling contact for function monitoring

Technical data

| TYPE	FS32 200	FS32 300	FS32 400	FS32 500	FS32 600	FS32 700	FS32 810	FS32 1000	FS32 1200	FS32 1500	FS32 1800
Dimensions / installed length in mm	D62×L242	D62×L342	D62×L442	D62×L542	D62×L642	D62×L742	D62×L852	D62×L1042	D62×L1242	D62×L1542	D62×L1842
Housing material	AISI304 stainless steel										
Emitter ST1	UV-C high efficiency / 16,000 h										
Power in W	7	13	18	23	29	35	40	50	61	77	92
Voltage	230V ±10% (50–60Hz)										
Connection cable in m	3/6/10										
Weight in kg	0.9	1	1.1	1.2	1.3	1.35	1.45	1.5	1.6	1.8	2.1
Protection class	IP69K										

FSX ⟨Ex⟩

700–1800 ATEX

Surface disinfection with explosion protection

Applications

Food processing | Laboratories | Animal farming | Pharmaceutical industry | Screen systems | OEM machine and system construction

The certified FSX system was specially developed to disinfect air and/or surfaces in dust hazard areas subject to specialized explosion protection requirements.
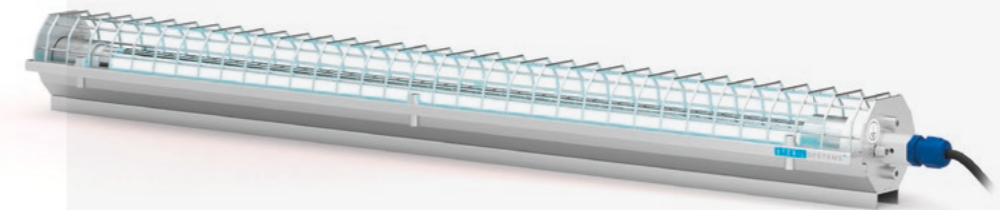
⟨Ex⟩

Ballast units designed specifically for the particular equipment type are required for ATEX certification, and must be mounted outside of the potentially explosive area.

Function The FSX is suitable for air and/or surfaces with permanent or temporary dust exposure, and was specially designed for explosion-protected hazard areas.
Equipment IP68 – the completely waterproof design of the UV-C emitters prevents moisture penetration; AISI304 stainless steel housing; protective tubes including splinter protection and protective grating for good breakage resistance; "end-of-life shutdown" – the ballast electronics for the UV-C emitter are equipped with an EOL shutdown

Assembly/maintenance Please observe the electronic ballast installation information to fulfill explosion protection requirements!
Option Ballast electronics mounted in the switch cabinet or available separately; LED status display and potential-free signaling contact

Technical data

TYPE	FS0700EX	FS0810EX	FS1000EX	FS1500EX	FS1800EX
Dimensions in mm L x W x H	805×92×84	915×92×84	1105×92×84	1605×92×84	1905×92×84
Housing material	AISI304				
Emitter ST1	UV-C high efficiency / 12,000 h				
Power in W	35	40	50	77	92
Voltage	230V ±10% (50–60Hz)				
Connection cable in m	3 / 6 / 10				
Weight in kg	3.7	4.2	6.1	7.2	8.4
Protection class	IP68				
Explosion protection	II 3 D Ex tc IIIC T190 °C Dc 0 °C ≤ T omb ≤ + 60 °C (Zone 22)				
Status display / signal	LED/5 Volt				
Material	Galvanized steel / powder-coated				

ME

3

Blade disinfection

The ME3 is used to disinfect blades and provides effective blade disinfection, including shaft transitions.

Applications

Packaging and slicing lines | Meat processing companies | Butcher shops | Food production | Restaurants and kitchens | Company cafeterias

Function DVG listing – tested and verified disinfection power; up to three blades can be inserted into the top of the ME3; blades are automatically cleaned of residue using water, then disinfected within 30 seconds by UV-C emitters – incl. shaft transitions; no water vapor – blades remain sharp; very low energy costs.

Equipment Rust-proof stainless steel housing – moisture-protected UV-C emitter module with integrated ballast electronics; low current consumption, just 36W power consumption; complete UV-C shielding (good personnel protection)
Assembly/maintenance Turnkey ready – cable length 3m; simple maintenance and cleaning – foaming and rinsing, operator can exchange emitters themselves
Option also available without water rinsing

Technical data

TYPE	ME3S
Dimensions in mm L x W x H	215 × 600 × 170
Housing material	AISI304 stainless steel
Emitter ST1	2x UV-C high efficiency / 12,000 h
Power in W	2 × 13
Voltage	230V ± 10% (50 – 60Hz)
Connection cable in m	3 incl. Schuko plug
Weight in kg	8.9
Protection class	IP67
Blade capacity	3 blades

MES

10

Blade disinfection cabinet

The MES10 disinfection cabinet is used to disinfect blades and hygienic tools.

Applications

Shops | Food production | Laboratories | Meat processing companies | Butcher shops | Food production | Restaurants and kitchens | Company cafeterias

The MES10 provides efficient disinfection for blade and tool surfaces by effectively deactivating germs, viruses, yeasts and mold spores.

Function After preliminary cleaning, the blades are placed in the compact disinfection cabinet, then a timer is used to set the disinfection time and the efficient disinfection of undesirable microorganisms can begin.

Equipment High-quality stainless steel design; timer to set the UV-C disinfection time
Assembly/maintenance Ready to plug-in – cable length 3m; emitters can be exchanged by the operator

Technical data

TYPE	MES10
Dimensions in mm L x W x H	600 × 350 × 150
Housing material	AISI304 stainless steel
Emitter ST1	1× UV-C high efficiency 12,000 h
Power in W	15
Voltage	230V ± 10% (50 – 60Hz)
Connection cable in m	3m incl. Schuko plug
Weight in kg	5.2
Protection class	IP40
Blade capacity	10 blades

ME
55–100
Disinfection cabinet

The ME55 – 100 is a compact cabinet designed specifically for the effective UV-C disinfection of blade baskets, aprons, clothing and chain gloves.

Applications

Food production | Laboratories | Meat processing companies | Butcher shops | Food production | Restaurants and kitchens | Fish processing companies

The cabinets are available in different versions, and can be adapted to individual requirements.

Function Objects to be disinfected are placed into the cabinet. A timer can be used to select the irradiation time and start the disinfection. An integrated exhaust air fan prevents moisture build-up in the cabinet.

The rugged housing offers reliable protection to personnel, shielding employees from the direct effects of UV-C
Equipment Compact stainless steel body; efficient UV-C disinfection unit; timer; fan
Assembly/maintenance Ready to plug-in – cable length 3m; emitters can be exchanged by the operator

Technical data

TYPE	MS55K4G4	MS55K8	MS100K10G10	MS100K20	MS100G16
Dimensions in mm L x W x H	550 × 2050 × 740	550 × 2050 × 740	1000 × 2050 × 740	1000 × 2050 × 740	1000 × 2050 × 740
Depth with door open	1190	1190	1190	1190	1190
Housing material	AISI304 stainless steel				
Emitter ST1	1× UV-C high efficiency 12,000 h	1× UV-C high efficiency 12,000 h	2× UV-C high efficiency 12,000 h	2× UV-C high efficiency 12,000 h	2× UV-C high efficiency 12,000 h
Power in W	77	77	154	154	154
Suction fan power in W	9	9	15	15	15
Voltage	230V ± 10% (50 – 60Hz)				
Connecting cable	3m incl. Schuko plug				
Weight in kg	83	93	135	140	140
Protection class	IP40				
Blade basket	4	8	10	20	
Suspensions	4		10		16
Timer in min	0 – 180				

MKD
1200
Blade basket disinfection

Applications

Food production | Meat processing companies | Butchers | Hygiene locks in cutting rooms | Laboratories

The MKD1200 is used for the continuous disinfection of blade baskets and processing tools (blades, chain gloves, etc.).

Function While the employee washes and disinfects their hands, the blade basket is placed on the intake belt and automatically moved through the UV-C tunnel. The employee removes the finished and disinfected basket at the outlet of the system. No heat production – the blade retains its sharp cutting edge. An optimal light seal makes the device harmless for employees.

Equipment Protective tubes over the UV-C emitters fitted with splinter protection provide good breakage resistance during handling and cleaning; rust-proof stainless steel, waterproof switch cabinet with ballast electronics and control electronics
Assembly/maintenance Turnkey solution – ready to operate, turnkey system; suitable for wet cleaning

Technical data

TYPE	MKD1200
Dimensions in mm L x W x H	Machine adaptable depending on required capacity
Housing material	AISI304 stainless steel
Emitter ST1	UV-C high efficiency / 16,000 h
Power in W	900
Voltage	400V 50Hz
Connection cable in m	6
Weight in kg	Depending on machine size
Emitter protection class	IP68
Protection class system	IP54

DC
600
Disinfection cabinet

The DC600 is used to disinfect protective and laboratory goggles, tools, blades and similar utensils.

Applications

Laboratories | Pharmaceutical industry | Food production | Restaurants and and commercial kitchens

Function After placing utensils in the compact stainless steel cabinet, the disinfection time can be selected accordingly. The UV-C disinfection is started by actuating the start button and runs automatically. The safety device ensures that the emitter is switched off during operation.

Equipment Stainless steel cabinet with multiple compartments; large viewing window; digital timer
Assembly/maintenance Suspension unit for wall installation; turnkey ready – cable length 3m; emitters can be exchanged by the operator

Technical data

TYPE	DC600
Dimensions in mm L x W x H	880 × 670 × 235
Housing material	AISI304 stainless steel
Emitter ST1	UV-C high efficiency / 12,000 h
Power in W	180
Voltage	230V ± 10% (50 – 60Hz)
Connection cable in m	3 incl. Schuko plug
Weight in kg	35
Protection class	IP54

DC
700–1800
UV-C/ozone cabinet

Applications

Laboratories | Pharmaceutical industry | Food production

UV-C/ozone cabinets are designed for the penetrating disinfection of different products and tools, even allowing for the effective irradiation of interior and difficult to access areas.

Function The UV-C unit handles surface disinfection and the combined ozone unit guarantees penetration of interior areas, completely eliminating unwanted microorganisms. After the automatic disinfection process, the ozone is suctioned out and vented outside or through a customer-supplied activated charcoal filter.

Equipment UV-C and ozone emitters; safety door switch and shielding for effective personnel protection; LED indicator shows the operating status (ready for operation, disinfection process, fault/error)
Assembly/maintenance Ready to plug-in – cable length 3m; emitters can be exchanged by the operator

Technical data

| Type	DC2 700 OZ	DC4 1800 OZ
Dimensions in mm L x W x H	900 × 765 × 480	1200 × 1800 × 600
Housing material	AISI304 stainless steel	
Emitter ST1	UV-high efficiency ozone / 12,000 h	
Power in W	900	980
Voltage	230V ± 10% (50 Hz)	
Connection cable in m	3m incl. Schuko plug	
Weight in kg	70	150
Protection class	IP54	
Dimensions of grating mount W x D	720x390	Grate optional

*Activated charcoal filter or suction line must be provided by the customer.

HD
300
Glove disinfection

The HD300 was specially developed to disinfect gloves during the ongoing production process.
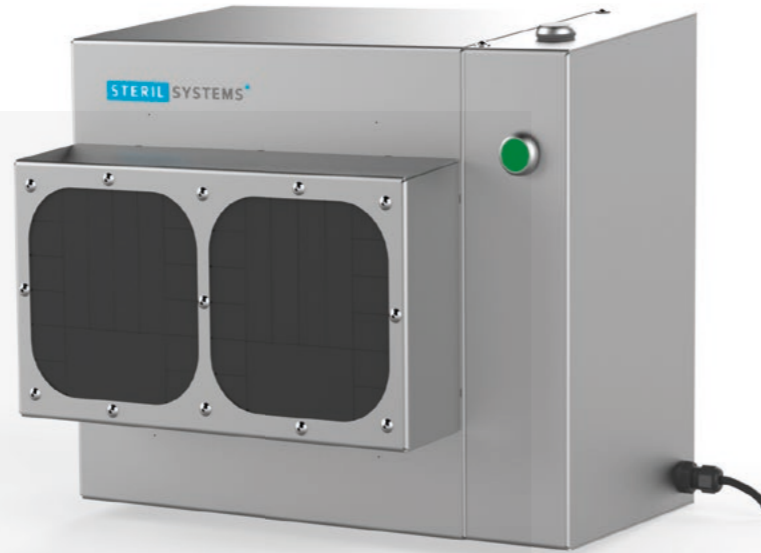
Applications

Production companies | Packaging lines | Sales counters (food sales, butcher) | Food service (service stations, cafeterias)

Using glove disinfection can entirely replace the use of disinfectants and make changing gloves unnecessary.

Function The HD300 is equipped with an actuation mechanism that starts the disinfection process by touching a trigger plate, while at the same time guaranteeing proper and safe use. The disinfection process is complete after just 5 seconds. An acoustic signal indicates whether disinfection was not completed correctly.

Equipment Stainless steel housing; protective slats for safe shielding; effective UV-C emitters; trigger plate; LED indicator shows the operating status and process sequence (ready for operation, disinfection process, fault/error/cancel the disinfection process)
Assembly/maintenance Ready to plug-in – cable length 3m; emitters can be exchanged by the operator
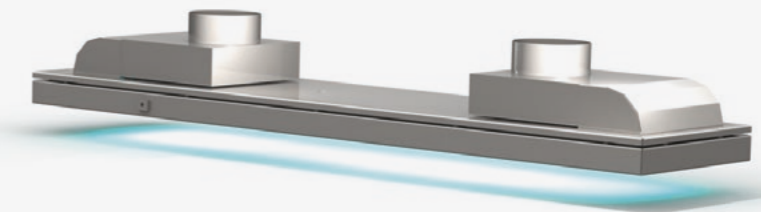
Technical data

TYPE	HD0300
Dimensions in mm L x W x H	435 × 385 × 365
Housing material	AISI304 stainless steel
Emitter ST1	2× UV-C high efficiency / 12,000 h
Power in W	26
Voltage	230V ± 10% (50 – 60Hz)
Connection cable in m	3 incl. Schuko plug
Weight in kg	20
Protection class	IP65

RAY
2000
Surface disinfection

Applications

Filling systems | Closure systems | Packaging systems

The Raypanel system is used for the fast surface disinfection of packaging, closures and beakers.

Function High power density ensures disinfection within 1-2 seconds, even at very high machine speeds. The modular design allows for simple integration into existing systems, and different sizes are available for various illumination widths.

Equipment High-quality housing – protected against water spray with integrated cooling; shutter system – UV-C radiation shielded with sensitive materials
Assembly/maintenance Can be retrofitted into existing systems
Option UV-C emitter power regulation available

Technical data

Bacillus subtilis SA 22
Aspergillus niger
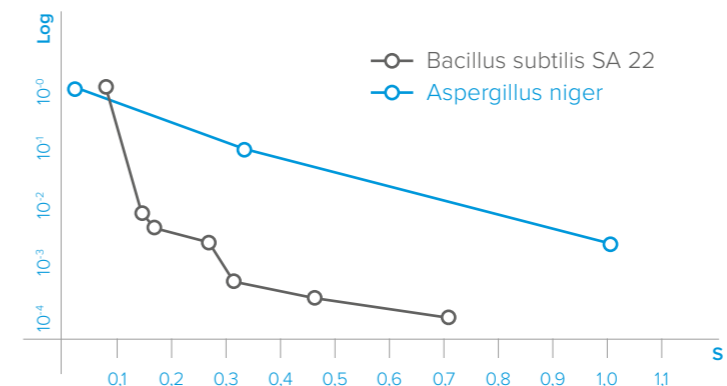
DE
500–1500

Pass-through disinfection

The pass-through disinfection system with high-performance technology (HPF) provides 360° disinfection and can be integrated into an existing production line. The surface to be treated is disinfected dry, without the use of chemicals or heat.

Applications

Packaging lines | Transport containers | Pharmaceutical industry | Slicer lines | Food production | Locks

Quality conveyor unit

The belt length and speed can be adjusted to customer needs. The especially quietly running conveyor belt makes very little noise.

360° disinfection

Emitters are arranged on all four sides, providing all-around complete product disinfection. Low-maintenance emitters with thick protective tubes are also equipped with splinter protection.
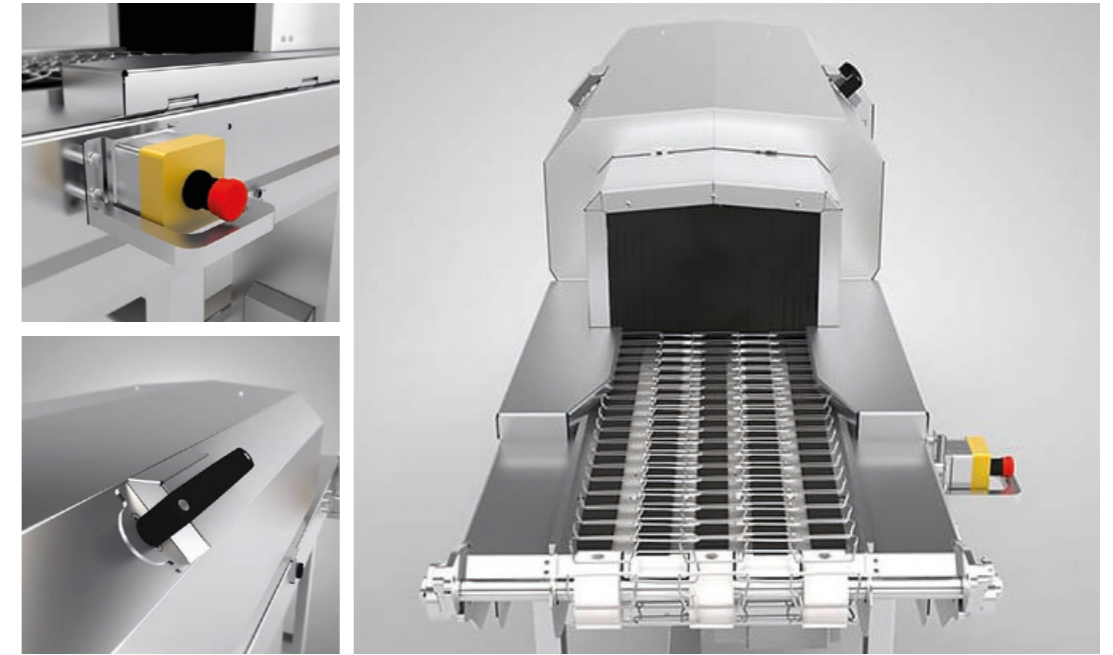
Control unit

The PLC with fault monitoring provides ongoing safety and facilitates the cleaning mode.

Simple maintenance

The large, swiveling housing cover facilitates easy maintenance and cleaning.

HPF
Technoloy
HIGH-PERFORMANCE-TECHNOLOGY
2.5 TIMES HIGHER POWER

The hygienic design with split technology allows for complete irradiation on all sides, and effectively eliminates undesirable microorganisms on surfaces.

Function The innovative split technology allows for efficient illumination on all sides – including the bottom. UV-C disinfection is completed while products move automatically through the system, and can be integrated into a production line with no additional work steps.
Equipment Each system is calculated, designed and produced individually to meet the customer's needs; emitters with HPF technology provide 2.5x better performance; waterproof switch cabinet with electronic ballast and control electronics; stainless steel conveyor belt; fan for temperature regulation
Assembly/maintenance Turnkey solution – ready to operate, turnkey system; suitable for wet cleaning

Technical data

TYPE	DE500 TO DE1500
Dimensions in mm L x W x H	adaptable depending on required capacity
Housing material	AISI304 stainless steel
Emitter ST1	UV-C high efficiency / 12,000 h
Power in W	500 – 2000
Voltage	230 / 400V 50Hz
Connection cable in m	6
Weight in kg	Depending on machine size
Emitter protection class	IP68
Protection class system	IP54
Insertion height in mm	1000 +/- 150

DS
1200–1500
Disinfection lock

The DS 1200/DS1500 disinfection lock is used to eliminate undesirable micro-organisms on the surfaces of large units such as pallets with goods, containers, barrels, big bags and packaging.

Applications

Food production | Pharmaceutical industry | Transport containers

Function Large units such as pallets/containers can be placed into the disinfection lock using a trolley/pallet truck and are effectively disinfected. At the same time, the DS1200 – DS1500 also serves as a UV-C high-care lock between preparation and processing rooms, preventing unwanted microorganisms from being moved from one room to the next.

Equipment Each system can be calculated, designed and produced individually to meet customer requirements; high-quality stainless steel housing; effective UV-C emitters; high-care lock; waterproof switch cabinet with ballast electronics and control electronics
Assembly/maintenance Turnkey solution – ready to operate, turnkey-ready system; emitters can be exchanged by the operator

Technical data

TYPE	DS1200	DS1500	DSIND
Dimensions in mm L x W x H	adaptable depending on required capacity		Other custom sizes available depending on requirements
Housing material	Panel cabinet, interior AISI304 stainless steel		
Emitter ST1	UV-C high efficiency / 12,000 h incl. splinter protection		
Power in W	500 – 3000		
Voltage	400V (50Hz)		
Connection cable in m	6 m		
Weight in kg	Depending on the size of the system		
Protection class	IP54		
Operation - operating status	"Control via PLC and HMI touch display LED signal light"		

DS
1800
Disinfection lock

The DS1800 is used to eliminate unwanted microorganisms on the surfaces of pallets, containers, barrels and packages, while serving as a high-care lock between preparation and processing rooms.

Applications

Food production | Pharmaceutical industry | Transport containers

Function Pallets, containers, barrels and packages can be disinfected. The pallet / packaging unit can be placed into the disinfection lock using a forklift. After the gate is closed, effective disinfection is initiated. The DS1800 therefore serves as a UV-C high care lock between preparation and processing rooms, preventing unwanted microorganisms from being moved from one room to the next.

Equipment High-quality stainless steel housing; effective UV-C emitters; high-care lock; waterproof switch cabinet with ballast electronics and control electronics
Assembly/maintenance Turnkey solution – ready to operate, turnkey-ready system; emitters can be exchanged by the operator

Technical data

TYPE	DS1800	DS IND
Dimensions in mm L x W x H	1390 × 2600 × 1590	Other custom sizes available depending on requirements
Insertion height in mm	Approx. 300	
Housing material	AISI304 stainless steel	
Emitter ST1	UV-C high efficiency / 12,000 h	
Power in KW	2.5	
Voltage	400V (50Hz)	
Connection cable in m	3/6/10	
Weight in kg	920	
Protection class	IP68	
Operation	Touch panel	
Display	Visualization	
Operating status	LED traffic light	

DDE
300–810

Pass-through disinfection

The DDE has been specially developed for the automatic disinfection of cans, glasses and packaging.

The system processes containers before they are filled or packed. Containers can be disinfected from above, or optionally from all sides.

Function Empty cans, glasses and packaging to be disinfected is placed on the intake conveyor belt. Disinfection is completed automatically as products pass through the system, in a dry process with no additional chemicals.Then filling can begin directly afterwards.
Equipment Each system is individually calculated,

designed and produced to meet customer requirements; high-quality design – rust-proof stainless steel; waterproof switch cabinet with ballast electronics and control electronics; harmless to employees thanks to optimal light shield; no moisture or heat production
**Assembly/maintenance** Turnkey solution – ready to operate, turnkey system; suitable for wet cleaning

Technical data

TYPE	DDE300-810
Dimensions in mm L x W x H	adaptable depending on required capacity
Housing material	AISI304 stainless steel
Emitter ST1	UV-C high efficiency ozone / 16,000 h
Power in W	160 to 500
Voltage	230V ± 10% (50 – 60Hz)
Connection cable in m	6
Weight in kg	Depending on the size of the system
Emitter protection class	IP54
Protection class system	IP54

DT
1000–1500 Connectivity

Mobile disinfection unit
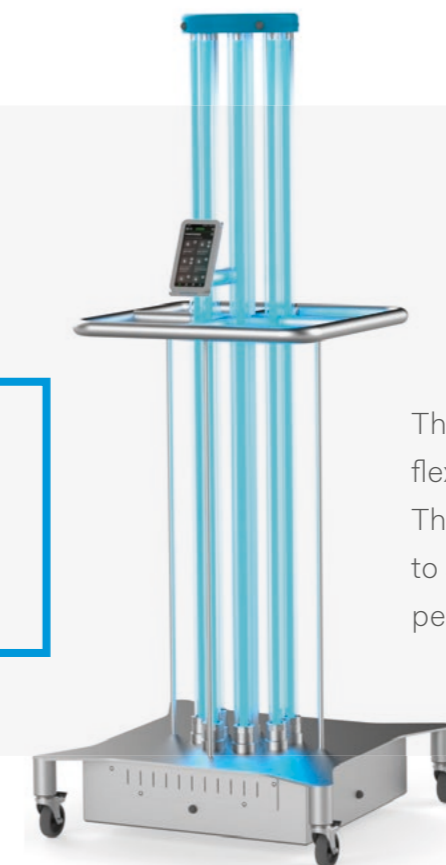
The UV-C tower is a mobile device for flexible use for air and surface disinfection. The device was developed as a supplement to standard cleaning in rooms where no personnel are present.

Function The UV-C tower is used to disinfect hospital rooms, production, work and storage areas without personnel present, and provides 360° treatment.
Equipment Stainless steel housing; 4 controllable rollers; protective grate prevents light breakage; absolute personnel safety using motion sensors with automatic switch-off, the DT8-1500 Connectivity is operated via a mobile touch screen module; rugged design – the low center of gravity prevents the device from tipping over

Assembly/maintenance DT12-1000: Plug in the device and use the timer to set the desired irradiation time DT8-1500C: Plug in the device, operate via smartphone; status feedback; individual disinfection processes can be evaluated; emitters can be exchanged by the operator

Technical data

TYPE	DT12-1000	DT8-1500C
Dimensions in mm L x W x H	650 × 650 × 1205	690 × 690 × 1690
Housing material	AISI304 stainless steel	
Emitter ST1	12× UV-C high efficiency / 12,000 h	8× UV-C high efficiency / 12,000 h
Power in W	500	700
Voltage	230V ± 10% (50 – 60Hz)	
Connection cable in m	5; cable reel incl. Schuko plug	
Weight in kg	45	61
Protection class	IP54	
Operation	Timer	Touch-screen module
Safety	3D-360° IFR motion sensors/collision protection/ protective tube splinter protection	3D-360° IFR motion sensors/collision protection/ protective tube splinter protection

Odors

stimulate and inspire and can even enchant.

Today, aggressive odors are handled with highly active oxygen. Ozone is a natural, gaseous molecule and is found in small quantities in nature. In the stratosphere, it protects our planet against ultraviolet rays from the sun as the ozone layer. It forms in minor concentrations following thunderbolts. The fact that ozone is often associated with air pollution gives it a rather somewhat negative image. Applied properly, however, it is an effective and environment-friendly alternative to chemical products.

Ozone occurs naturally and is formed when three atoms of oxygen combine. This happens naturally, for instance following thunderbolts.

Clean without odors

OZ
60
Ozone generator

The OZ60 ozone generator can be used for single-dose disinfection and odor elimination in rooms with primarily dry environmental conditions where no personnel are present.
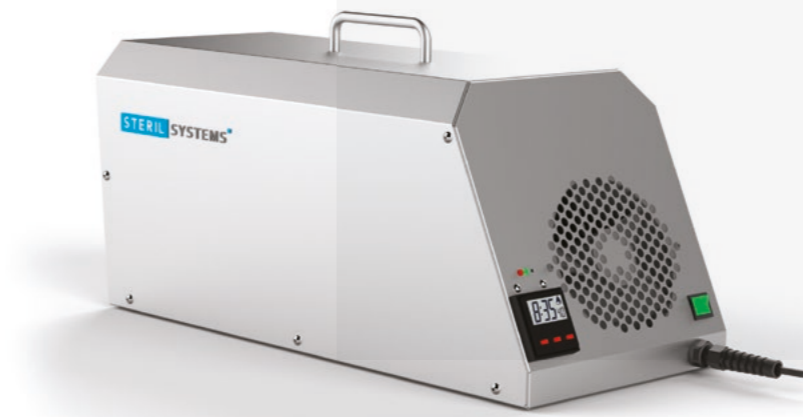
OZ
75
Ozone generator

Applications

Food industry | Hospitals | Hotels/restaurants | Pharmaceutical industry | Pest control

The OZ75 ozone generator is suitable for single-dose disinfection and odor removal in large rooms where no personnel are present, and is specially designed to meet the needs of the food industry.

Function The mobile OZ60 device can be individually used to eliminate odors in the air / on surfaces and for single-dose disinfection in small areas or private applications. The ozone is formed from oxygen in the ambient air using the device, without any additives. The ozone molecules react quickly with a large number of organic/non-organic compounds, neutralizing odors and disinfecting the "bad" air thoroughly and reliably.

The ozone produced is usually completely consumed by this oxidation process over a certain time and decays back to oxygen.
Equipment Small design; easy to handle stainless steel housing; high-quality ozone components
Assembly/maintenance Turnkey ready – cable length 3m

Function The mobile OZ75 device is especially well-suited for the intermediate disinfection of air and surfaces, even in the moist ambient conditions in the food industry.
UV light produces high-purity ozone without byproducts (NOx). The ozone molecules react quickly with a large number of organic/non-organic compounds, neutralizing odors and disinfecting the air thoroughly

and reliably. The ozone produced is usually completely consumed by this oxidation process over a certain time and decays back to oxygen.
Equipment Compact, easy to handle stainless steel housing; high-quality ozone components
Assembly/maintenance Turnkey ready – cable length 3m

Technical data

TYPE	OZ60 12V	OZ60 230V	OZ75
Dimensions in mm L x W x H	248 × 165 × 107	248 × 165 × 107	570 × 255 × 250
Housing material	AISI304 stainless steel		AISI304 stainless steel
Ozone components / service life	Corona board / 4000h		4× UV emitters ozone high efficiency / 10,000h
Ozone performance mg / h	6000		7500
Power in W	40	70	100
Voltage	12 V DC	230V ± 10% (50 – 60Hz)	230V ± 10% (50 – 60Hz)
Connection cable in m	3m incl. Schuko plug		3 incl. Schuko plug
Weight in kg	2.8		9
Protection class	IP54		IP54
Fan power	90m³ / h		360m³ / h

OZ60/OZ75

Applications

Heating oil, diesel odors	Mold	Wood worms
Water and fire damage	Kitchen odors	Mites
Butter, lactic acid	Animal odors	Germs, bacteria
Smoke, nicotine	Fecal odors	Mold spores
Sulfur	Urine, vomit	

Accessories

Have you already purchased a quality product from STERILSYSTEMS and have questions or need additional accessories?
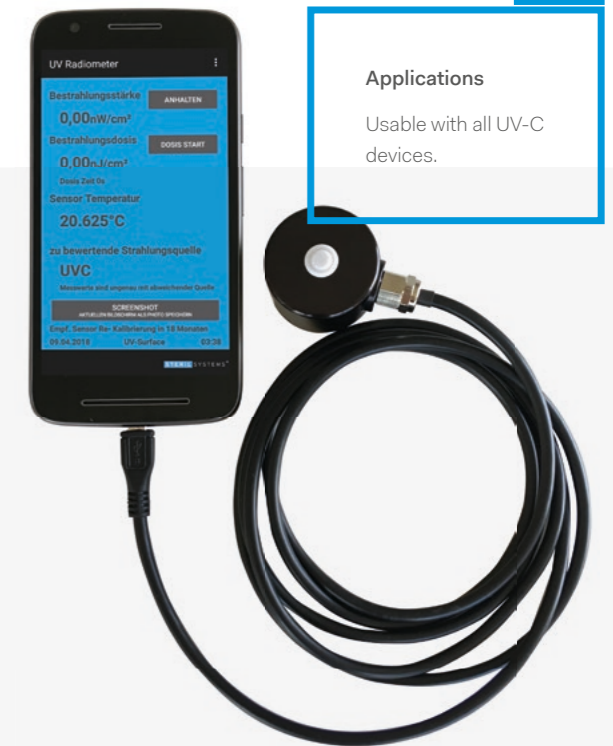
The following pages list additional accessories that can allow you to handle UV-C and ozone quickly and safely.

Accessories
for more comfort
and safety

SP
200/SAFE

UV-C measurement device

Applications

Usable with all UV-C devices.

The SP200 is a mobile UV-C measurement device, and is used to determine UV-C radiation strength and dosage.

Function The versatile SP200 measurement device is suitable for determining UV-C radiation intensity and total radiation dosage over a certain time period. The measurement process is fully automatic, and the current sensor temperature is displayed. Measured values can be recorded using an integrated screenshot button. The SP SAFE is used for health and safety monitoring and personal exposure monitoring.

Equipment Easy to handle size; clear display. 8 hour use thanks to a lithium battery; adapted for use with UV-C low pressure emitters
Usage note Protect eyes and skin before beginning operation of the UV-C emitter source. The UV sensor reacts to strong sunlight, please note this when completing exposure measurements. The combination of smartphone and UV sensor allows for user-friendly measurements.

Technical data

TYPE	SP200	SP SAFE
Dimensions in mm L x W x H	145 × 75 × 10	
Sensor measurement range	0 to 200 mW/cm²	0 to 180 µW/cm²
Display	5 inch display, 16:9	
Charger	5.2 V DC - Charger supply 230 V AC	
Battery power	2800 mAh	
Smartphone memory	8 GB	
Sensor output	D-USB	
Weight	140g (Smartphone)	
Scope of delivery	Smartphone, software / app, sensor, case	
Accessories	Sensor holder for UV-C emitter measurement	

MOZ
300–500
Ozone measurement device

The wearable MOZ300/500 is an ozone measurement device used to reliably measure ozone concentrations in closed rooms and containers.

Applications

Usable for all ozone measurements in closed rooms and containers.

Function Ozone concentrations can be shown either in ppm or mg / m³ on the LCD function display. Users can define upper and lower setpoints that trigger an acoustic alarm if the ozone concentration exceeds or falls below this value, transmitting a signal to the relay controller.

Equipment 0/5V output to switch an externally connected relay used to control an ozone generator or external system.

Lithium batteries allow for up to 8 hours of mobile use. If the ozone exceeds the set levels, an acoustic message is output (or via interface); integrated analog output allows for control of external devices; measurement sensors (for different measurement ranges) can be exchanged easily

Assembly/maintenance The ozone measurement device is delivered as a mobile, handheld unit, but can be mounted in a fixed location on the wall using a wall mount.

Technical data

TYPE	MOZ300	MOZ500
Dimensions in mm L x W x H	195 × 122 × 54 (incl. sensor)	
Display	LCD digital display (ppm, or mg/m³ can be selected)	
Analog output	0 to 5V	
Temperature and humidity sensor	- 40° C to 50° C; 0 to 90%	
External output for controller	12V DC, max. 150 mA	
Acoustic alarm	If a limit value is exceeded or not met (MIN/MAX)	
Data logger	Not integrated	Integrated
USB cable (monitor/PC)	Not included	Included
PC software data logger	Not included	Free download
Weight in kg	0.5 (incl. sensor)	
Accessories	Remote sensor kit, wall mount	
Safety sensor	0-0.5ppm	
Measurement sensor	0-10ppm	
	IP41 Remote Sensor Kit	
Scope of delivery	Measurement device, sensor, case	

UVV
100
UV-C full face shield

Usage note

Protect eyes and skin before beginning operation of the UV-C emitter source. The UV-C full face shield is part of PPE for the commissioning / maintenance / servicing of UV-C emitter sources.

The UV-C full face shield provides reliable shielding to safely carry out UV-C measurements.

Function The UV-C full face shield has a large protected view area that allows for an unrestricted field of vision when working with UV-C emitters. An adjustable snap closure allows the shield to be adjusted to the specific user.
The UV-C face shield provides reliable protection against UV-C radiation in a range of 254nm.
Testing: EN166

Equipment Tinted face shield with a length of 250mm; fold-up design; snap closure sizes 50-64; designed with absorbent terrycloth sweat band; ABS chin protector; head strap is designed to be chemical and heat resistant
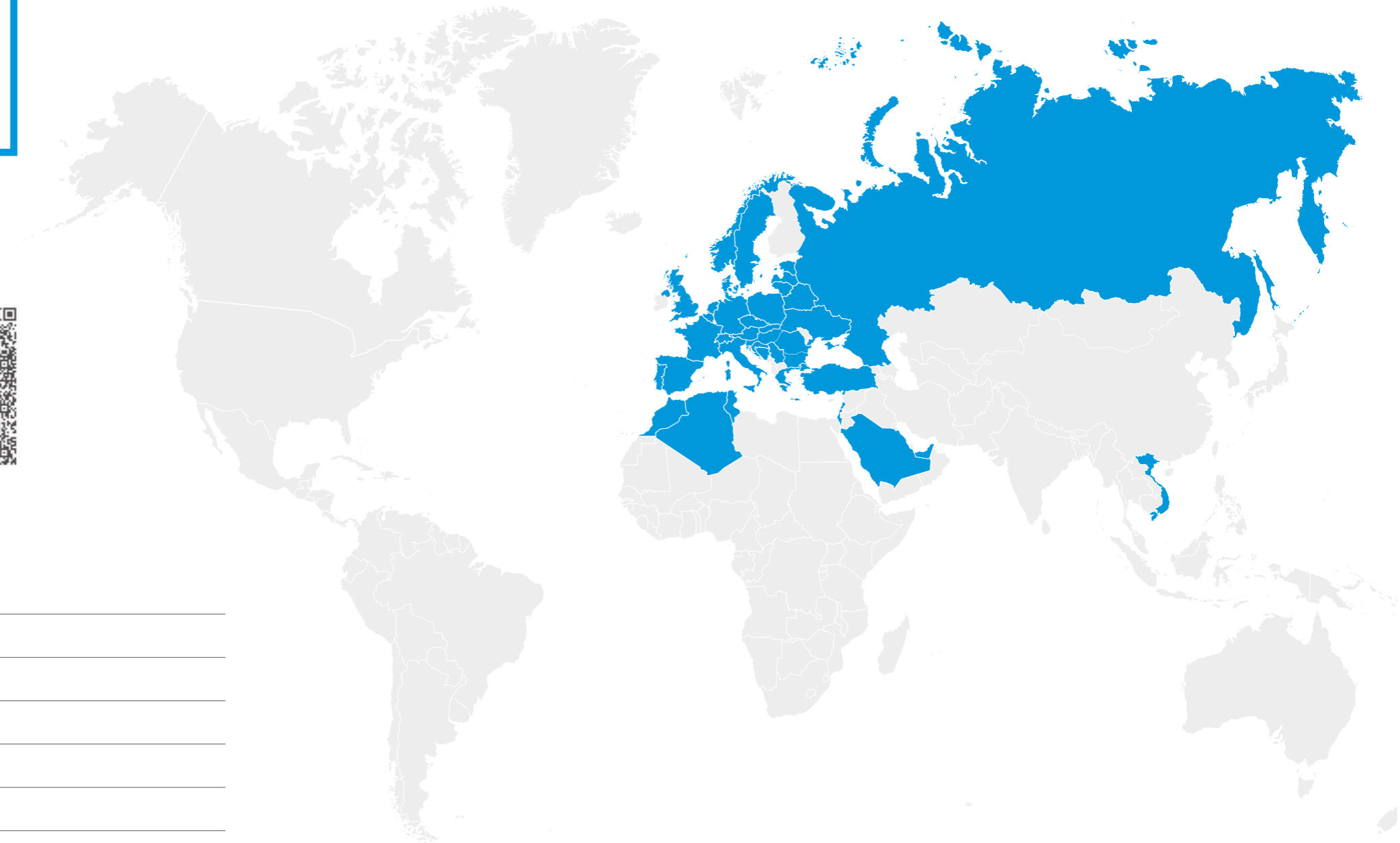
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