UV-Consulting Peschl España®
Su socio en tecnología ultravioleta

PRODUCT INFORMATION



DTS Immersion System
Universal system for water disinfection

Your germ-free water without using chemicals!

The DTS universal submersion system is constructed from high-grade stainless steel and can be equipped with conventional low-pressure mercury lamps (GPH) or high-output indium amalgam lamps (NIQ). It is engineered in multiple physical dimensions and power configurations to suit industrial bioprocess requirements.

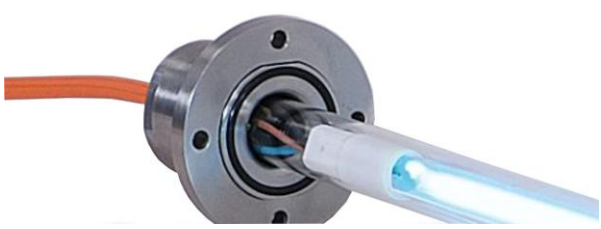
DTS assemblies provide watertight seal integrity up to 2 bar pressure under complete water immersion, and up to 10 bar when coupled to storage vessels or fluid conduits via the integrated sealing flange. Alternatively, mounting can be accomplished using optional structural support clamps. All DTS variants can be specified with the LampSafe shatterproof protection system to prevent quartz sleeve fragmentation and glass debris in the event of mechanical failure.

Applications

- Water disinfection in storage cisterns and tanks.
- Disinfection in evaporators and heat exchangers.
- Decontamination in airlocks and transfer hatches.
- Disinfection of cutting tools and machine parts.
- Hygiene maintenance in cold rooms and damp areas.
- Decontamination of liquid bulk containers.

Technical features

- Fully modular engineering with broad power range
- Complete submersible ingress protection (IP68)
- Heavy-duty mechanical construction
- Rapid and straightforward lamp servicing
- Ready-to-integrate with anti-rotation flange.
- Include embeddable power supply units.



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PRODUCT INFORMATION

Technical features

Description	DTS 25/354-12L	DTS 25/505-21L	DTS 25/505-64NNI	DTS 25/960-41L	DTS 25/960-110NNI	DTS 25/1607-75L
Reference	LS30002	LS3005	LS30014	LS3007	LS30012	LS30021
Lamp						
Nominal electrical power	12W	21W	64W	41W	110W	75W
Radiant power (253,7nm)	3,4W	7,3W	20W	18W	43W	30W
Lamp model	GPH265T5 L/4 (85020)	GPH436T5 L/4 (85002)	NNI60/35 XL (81033)	G36T5L/4 (85005)	NNI 125/84XL (81042)	G64T5L/4 (85003)
Lamp technology	Low pressure	Low pressure	Indium amalgam	Low pressure	Indium amalgam	Low pressure
Lamp lifetime	8.000h*	8.000h*	16.000h**	8.000h*	16.000h**	8.000h*
Dimensions						
Immersion length	354mm	505mm	505mm	960mm	960mm	1607mm
Emitter diameter	25mm	25mm	25mm	25mm	25mm	25mm
Anti-breakage protection	Upon request	Upon request	Upon request	Upon request	Upon request	Upon request
Electrical characteristics						
Electrical protection	IP68	IP68	IP68	IP68	IP68	IP68
Wire length	3m	3m	3m	3m	3m	3m
Power supply	EVG 1X5-42W	EVG 1X5-42W	EPS 1px^{o}	EVG 1X5-42W	EPS 1px^{o}	EVG 1X50-70W
Fault signal	Optional	Optional	Yes	Optional	Yes	Yes
Voltage/ Frequency	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz
Water/air installation	Yes/Yes	Yes/Yes	Yes/Upon request	Yes/Yes	Yes/Upon request	Yes/Yes

^{o} : Relay output *: Drop in emission<35% **: Drop in emission <15%

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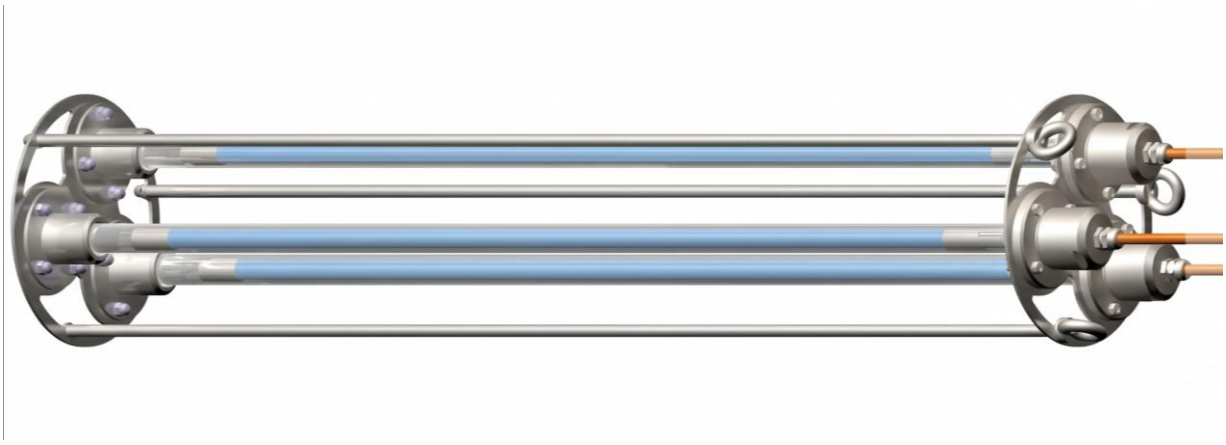
Technical features

Description	DTS 28/910-150NNI	DTS 28/1207-200NNI	DTS 28/1617-300NNI
Reference	LS30042	LS30022	LS30084
Lamp			
Nominal electrical power	160W	180W	325W
Radiant power (253,7nm)	48W	50W	105W
Lamp model	NNI 150/76 XL (81055)	NNI 201/107 XL (81043)	NNI 300/147XL (81034)
Lamp technology (ozone free)	Indium amalgam	Indium amalgam	Indium amalgam
Lamp lifetime	8.000h*	8.000h*	16.000h**
Dimensions			
Immersion length	910mm	1207mm	1617mm
Emitter diameter	28mm	28mm	28mm
Anti-breakage protection	Upon Request	Upon Request	Upon Request
Electrical characteristics			
Electrical protection	IP68	IP68	IP68
Wire length	3m	3m	3m
Power supply	EPS 1px^{o}	EVG 1X160-200W/2,0A-PH	EVG 1X300W/2,1A-PH
Fault signal	Si	Si	Si
Voltage/ Frequency	230V/50-60Hz	230V/50-60Hz	230V/50-60Hz
Water/air installation	Yes /Upon request	Yes /Upon request	Yes /Upon request

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PRODUCT INFORMATION



DTS XL-10 Immersion system
High capacity tanks

A System for large tanks!

Large-capacity storage vessels (cisterns, concrete tanks, etc.) require high UVC power output to achieve the disinfection doses required for water treatment. Integrating multiple DTS lamps into a single unified system provides a simple and effective engineering solution to this challenge. The DTS XL-10 system ensures clean storage vessels by preventing germ growth within the stored fluid.

Deploying the DTS XL-10 in storage vessels enables efficient removal of biofilms growing on container walls and effective sterilization of air-water interfaces, a critical focal point for microbial contamination. Enhanced hygiene directly translates into a reduced frequency of tank cleaning cycles, thereby lowering operational expenditures and minimizing production losses caused by process downtime.

Furthermore, UV photolysis technology eliminates malodors resulting from microbial metabolism, prevents algal growth, and mitigates all associated operational consequences

Technical features

- Fully submersible and waterproof system (IP68).
- Heavy-duty, highly robust construction.
- Fast and straightforward lamp replacement.
- Electrically safe system.
- Ready-to-integrate system including anti-rotation mounting flange and power supplies.

Applications

- Process water disinfection.
- Reduction of odors caused by microbial metabolism in storage tanks.
- Algae growth prevention.



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PRODUCT INFORMATION

Technical features

Description	DTS XL-10
Reference	LS30083
Lamp	
Nominal electrical power	330W
Radiant power (253,7nm)	129W
Lamp model	NNI 125/84 XL (81042)
Lamp technology (ozone free)	Indium amalgam
Lamp lifetime	16.000h**
Dimensions	
Quartz length	970mm
Total diameter	200mm
Emitter diameter	25mm
Anti-breakage protection	LampSafe upon request
Other	
Electrical protection	IP68
Wire length	3m
Electrical characteristics	
Power supply	EPS 1px^{o}
Fault signal	Si
Voltage/ Frequency	230V/50-60Hz
Water/air installation	Yes/ Upon Request

^{O} : Relay output **: Drop in emission <15%