



DTS25-50 Immersion Tube Systems



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A universal immersion tube system in stainless steel for operation with low pressure lamps such as Indium amalgam high power lamps, with various powers and geometries for use in water and air.

DTS lamps can be completely immersed in water and are pressure tight up to 2 bar. When fitted into a container by means of the attached flange, DTS systems are pressure tight up to 10 bar. Alternatively, the DTS lamps can be fitted to a component by means of stainless steel spring clamps.

Optionally, the DTS-25 systems can be supplied with LampSafe shatter protection, where an innovative technology is applied to the quartz glass sheathing tube.

Notable product features

- Complete modular system with a range of powers, lamp types and geometries.
- Completely water-tight (IP68)
- Robust industrial design, without the use of delicate fine pitch threads.
- Simple lamp replacement without the need for tools
- Internal earthing screw for the greatest possible personal safety.
- Ready-to-fit system, including removable flange with unwanted rotation prevention, sealing for container fitting and electronic power supply unit.

Recommended areas of application

- Water disinfection in tanks and cisterns
- Surface disinfection of evaporator fins and heat exchangers
- Fitting between transport castors for surface disinfection
- Water disinfection in air scrubbers of air conditioning plant.
- Disinfection of blades in cutting devices
- Air disinfection in cool rooms and cold storage.
- Disinfection of the insides of large packaging containers using DTS 50.

Technical data						
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
Art. No.	30002	30005	30014	30007	30012	30021
Lamp data						
Nominal lamp power	12 Watt	21 Watt	64 Watt	41 Watt	110 Watt	75 Watt
Radiation flux 253,7 nm (ozone free)	3,4 Watt	7,3 Watt	20 Watt	18 Watt	43 Watt	30 Watt
Lamp description (Art. No.)	GPH265T5L/4 (85020)	GPH436T5L/4 (85002)	NNI 60/35 XL (81033)	G36T5L/4 (85005)	NNI 125/84 XL (81042)	G64T5L/4 (85003)
Lamp type (ozone free)	Low pressure standard	Low pressure standard	Indium Amalgam	Low pressure standard	Indium Amalgam	Low pressure standard
Typical lamp lifetime	8.000 h*	8.000 h*	16.000 h**	8.000 h*	16.000 h**	8.000 h*
Geometrical data						
Immersion depth	354 mm	505 mm	505 mm	960 mm	960 mm	1607 mm
Sleeve diameter	25 mm	25 mm	25 mm	25 mm	25 mm	25 mm
Shatter prediction	upon request	LampSafe	upon request	LampSafe	upon request	LampSafe
Features						
Protection class	IP68	IP68	IP68	IP68	IP68	IP68
Cable length	3 m	3 m	3 m	3 m	3 m	3 m
Electrical data						
Power supply	EVG 1x5-42W	EVG 1x5-42W	EPS 1px°	EVG 1x5-42W	EPS 1px°	S-EVG 1x50-70W/425mA
Lamp failure alarm	optional (80073)	optional (80073)	O	optional (80061)	O	O
Voltage / Frequency	230V / 50-60Hz	230V / 50-60Hz	230V / 50-60Hz	230V / 50-60Hz	230V / 50-60Hz	230V / 50-60Hz
Operating information						
Operation in water / on air	O / O	O / O	O / upon request	O / O	O / upon request	O / O

More features next page

- O = Yes
- = No
- ° = Opto-coupler
- * = Decrease of intensity < 35%
- ** = Decrease of intensity < 15%

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Technical data				
Description	DTS 28/910-150NNI	DTS 28/1207-200NNI	DTS 28/1617-300NNI	DTS 50/559-125NNI-U
Art. No.	30042	30022	30084	30082
Lamp data				
Nominal lamp power	160 Watt	180 Watt	325 Watt	125 Watt
Radiation flux 253,7 nm (ozone free)	48 Watt	50 Watt	105 Watt	18 Watt
Lamp description (Art. No.)	NNI 150/76 XL (81055)	NNI 201/107 XL (81043)	NNI 300/147 XL (81034)	NNI 120/44U (81025)
Lamp type (ozone free)	Indium Amalgam	Indium Amalgam	Indium Amalgam	Indium Amalgam U-shape
Typical lamp lifetime	16.000 h**	16.000 h**	16.000 h**	4.000 h*
Geometrical data				
Immersion depth	910 mm	1207 mm	1617 mm	559 mm
Sleeve diameter	28 mm	28 mm	28 mm	50 mm
Shatter predection	-	-	-	-
Features				
Protection class	IP68	IP68	IP68	IP68
Cable length	3 m	3 m	3 m	3 m
Electrical data				
Power supply	EPS 1px°	EVG 1x160-200W/2,0A-PH	EVG 1x300W/2,1A-PH	EPS 1px°
Lamp failure alarm	O	O	O	O
Voltage / Frequency	230V / 50-60Hz	230V / 50-60Hz	230V / 50-60Hz	230V / 50-60Hz
Operating information				
Operation in water / on air	O / upon request	O / upon request	O / upon request	O / upon request

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- Equipment for disinfection of
 - Air
 - Water
 - Surfaces
 - Packaging materials
 - Immersion lamps for industrial photochemistry
 - Laboratory
 - R&D
 - Production
 - Engineering and consultancy services
- UV curing and drying
 - UV measurement technology
 - UV radiation sources
 - Power supply units
 - Analysis lamps and luminescence excitors
 - Quartz glass products
 - Components
 - Special equipment
 - Training and workshops

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