

triogen®

by BIOUV
Group

LPTS

UV

triogen® UV LPTS range has been especially designed for water deozoneation and can be applied after the ozone generator. The units are internally finished to the highest standards as required for installation in ultra-pure water systems.

APPLICATIONS

- Ultrapure water for electronics, semiconductor and pharmaceutical industries.
- Residual ozone destruction

MAIN FEATURES

- Protects ozone sensitive systems from oxidation damage
- Allows use of higher ozone concentrations in oxidation processes
- Simple lamp replacement reduces system downtime
- Simple to install and operate
- Exceptional lamp life of 16,000 hours

UV TECHNOLOGY

The UV dose (UV intensity x contact time) defines the treatment efficiency which is provided by the unit. The effective dose applied in ozone destruction is between 120 and 140mJ/cm².

HOW IT WORKS

Lamps producing UV at a wavelength of 254nm will reduce the ozone concentration down to below the measurable limit of 0.005mg/l (5ppb), by transforming the Ozone (O₃) back to Oxygen (O₂). The UV system can be controlled so that they are only on when the water is being drawn from the circulation system. During other periods, e.g. overnight or over the weekend, the UV unit will be switched off allowing ozone to sanitise the complete network.



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TECHNICAL DATA MODEL	Flow Rate ⁽¹⁾	Total Lamp Power	Dimension (mm)				In-out ⁽²⁾	Drain Connection ⁽³⁾	Side Connection ⁽²⁾	Control Panel Dimensions mm (LxHxW)
	m³/h	W	A	B	C	D				
LPTS 150-50-1	10	200	150	122	1100	105	DN 50	DN 25	DN 40	400x600x210
LPTS 150-50-2	18	400	150	122	1100	105	DN 50	DN 25	DN 40	400x600x210
LPTS 150-75-3	26	600	150	122	1100	120	DN 80	DN 25	DN 40	400x600x210
LPTS 150-75-4	33	800	150	122	1100	120	DN 80	DN 25	DN 40	400x600x210

(1) Dose 120mJ/cm² at 98% UVT
 (2) TRICLAMP BS4825 with ferrule
 (3) TRICLAMP BS4825 with blank

QUALITY STANDARDS

- ISO 9001 : 2015
- CE certified

TECHNICAL FEATURES

- Connections: TRICLAMP BS4825
- Power supply: 220-240V/1ph/50-60Hz
- Panel rating: IP 54 (NEMA 12)
- Horizontal vessel mounting

MATERIALS

- Reactor material: 316L stainless steel
- Reactor wetted surfaces: 0.35 µm + electropolish
- Lamp and sleeve material: high purity quartz
- Seal material: silicone
- Control panel material: 304 stainless steel

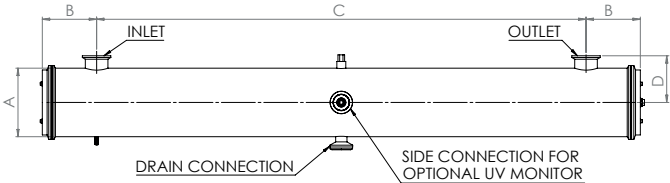
REMOTE CONTROLS AND SIGNALS

- Digital inputs: lamp start stop, water flow interlock
- Digital outputs: system status, pre-alarm, system fault

OPTIONS

- UV sensor

REACTOR DRAWING



CONTACT

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