



UV DISINFECTION LOW PRESSURE DEOZONATION ULTRAPURE WATER ← Applications

- Ultrapure water in industry

← Main characteristics

- Low Pressure High Output Amalgam lamp
- Stainless Steel industrial finishing
- Tri-Clamp connections



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

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

UV TECHNOLOGY: Aquaray® LPTS

The Aquaray® LPTS range has been designed for ozone destruction applications in industry. In most cases, it is necessary that the water passing to the user points is free of ozone and to accomplish this a UV system must be built into the circulation system immediately before the first consumer point.

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 90 and 120 mJ/cm².

HOW IT WORKS

Lamps producing UV at a wavelength of 254 nm will reduce the ozone concentration down to below the measurable limit of 0.01 mg/l (10 ppb), 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.



TECHNICAL DATA

LPTS Model	Flow Rate*	Total Lamp Power
	m ³ /h	W
LPTS 150-50-1	10	200
LPTS 150-50-2	18	400
LPTS 150-75-3	26	600
LPTS 150-75-4	33	800

*Dose 120mJ/cm² @ 98% UVT

► Standards

- **Connections:** TRICLAMP BS4825
- **Power Supply:** 220-240V/1ph/50-60Hz
- **Panel Rating:** IP 54 (NEMA 12)
- **Conformity:** CE

► Options

- UV sensor

► Materials

- **Reactor material:** 316 L 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 alarms

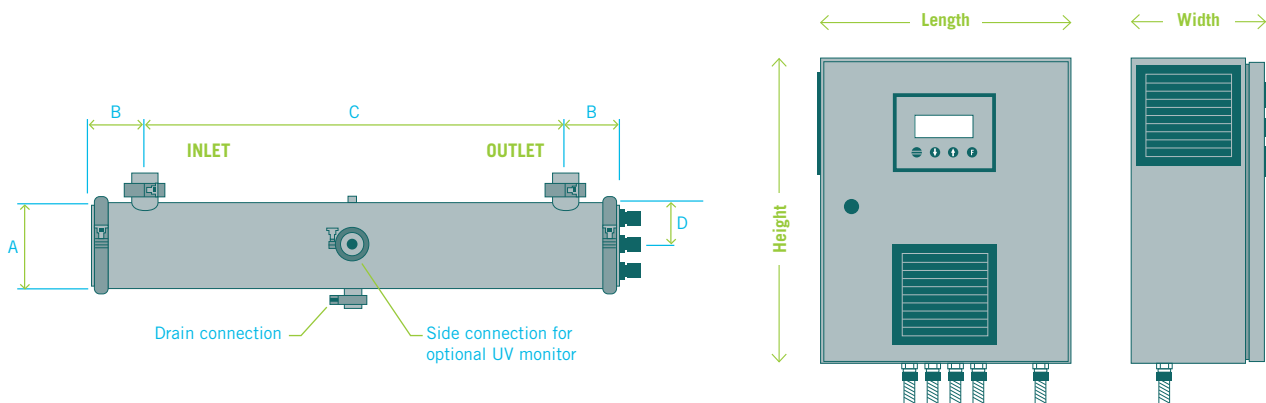
- **Digital Inputs:** lamp start-stop, water flow interlock
- **Digital Outputs:** system status, pre-alarm, system fault

DIMENSIONS

LPTS Model	A	B	C	D	In-Out*	Drain connection**	Side connection**	Panel : l x h x w
	mm	mm	mm	mm	inch	inch	inch	mm
LPTS 150-50-1	150	122	1100	105	2"	1"	1"1/2	400 x 600 x 210
LPTS 150-50-2					2"			400 x 600 x 210
LPTS 150-75-3				3"	400 x 600 x 210			
LPTS 150-75-4				3"	400 x 600 x 210			

* TRICLAMP BS4825 with ferrule

** TRICLAMP BS4825 with blank



Contacts

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