

The Aquaray® LPTS range has been especially designed for water deozoneation 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.

APPLICATIONS

- Ultrapure water

MAIN CHARACTERISTICS

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

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 : LPTS

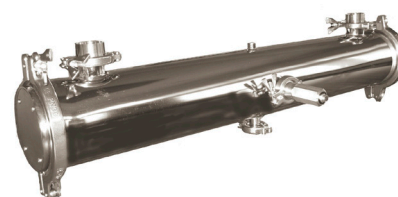
The Aquaray® LPTS range has been designed for ozone destruction applications in industry. In most cases, it is necessary that water passing to the use points is free of ozone and to accomplish this a UV system must be built into the circulation system immediately before the first consumer point.

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 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.



PRODUCT HIGHLIGHTS

- > Designed for ultra pure water applications
- > Simple to install and operate
- > Exceptional lamp life of 16 000 h

TECHNICAL DATA LPTS MODEL	Flow Rate ⁽¹⁾ (m ³ /h)	Total Lamp Power (W)	Dimensions (mm)				In - Out (2)	Drain connection (3)	Side connection (2)	Control Panel: L x H x W (mm)
			A	B	C	D				
LPTS 150-50-1	10	200	150	122	1100	105	DN 50	DN 25	DN 40	400 x 600 x 210
LPTS 150-50-2	18	400	150	122	1100	105	DN 50	DN 25	DN 40	400 x 600 x 210
LPTS 150-75-3	26	600	150	122	1100	120	DN 80	DN 25	DN 40	400 x 600 x 210
LPTS 150-75-4	33	800	150	122	1100	120	DN 80	DN 25	DN 40	400 x 600 x 210

(1) Dose 120mJ/cm² @ 98% UVT

(2) TRICLAMP BS4825 with ferrule

(3) TRICLAMP BS4825 with blank

TECHNICAL FEATURES

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

MATERIALS

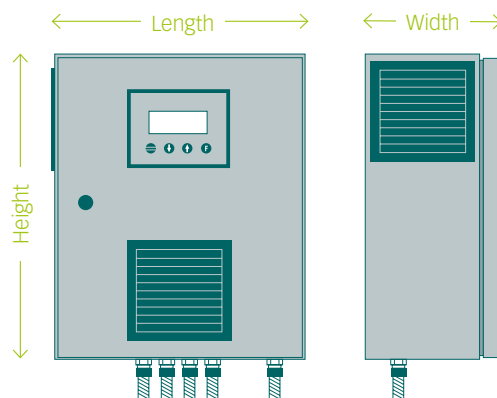
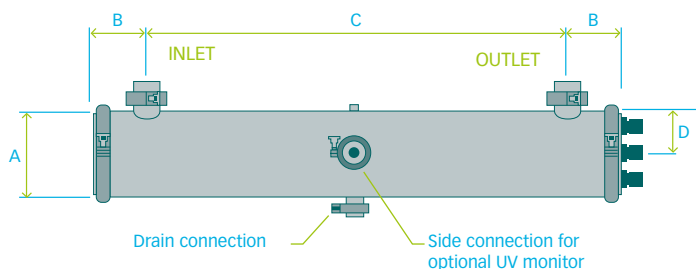
- Reactor material: 316 L Stainless Steel
- Reactor wetted surfaces: 0.35 µm + Electropolish
- Lamp and sleeve material: High purity quartz
- Seal material: Silicone
- Control panel material: 304 Stainless Steel

OPTIONS

- UV sensor

REMOTE CONTROL AND ALARMS

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



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