



UV  
DISINFECTION

LOW PRESSURE  
HIGH OUTPUT

DRINKING WATER

PROCESS WATER

← Applications

- Drinking water
- Process water
- Aquaculture
- Deozonation
- Cooling tower

← Main characteristics

- Low Pressure High Output Amalgam Lamp



The Aquaray® LP range offers compact and high efficiency system for small water plant with a range of flow rates from 44 to 176 gpm with exceptional reliability and ease of operation.

## MAIN FEATURES

- High efficiency low pressure lamp amalgam
- Lamp life of 16,000 h
- Horizontal or vertical reactor mounting
- Easy to install in new or existing water plants
- Small size suits installations with limited room space
- User friendly operator interface microprocessor controlled

## UV TECHNOLOGY: LP

The Aquaray® LP units have been designed to disinfect potable or process water. The germicidal effect of the UV light inactivates most micro-organisms such as bacteria, viruses and parasites. UV is known to be particularly efficient to inactivate *Cryptosporidium Parvum* and *Giardia Lamblia*.

The UV dose (UV Intensity x contact time) defines the treatment efficiency which is provided by the unit. The effective dose applied depends on the UV transmittance of water to be treated as well as the proper hydraulic design of the unit.

## HOW IT WORKS

The low pressure amalgam lamps are powered by electronic ballasts. The lamps are inserted in pure quartz tubes isolating them from the water.

The lamps can be easily changed when required. A UV sensor is available in option to monitor UV radiation.

## TECHNICAL DATA

Aquaray® LP Model	Flow Rate <sup>(1)</sup>	Lamp Power
	gpm	KW
LP 100-40-120-1	40.0	0.120
LP 150-50-120-1	48.5	0.120
LP 150-50-120-2	88.0	0.240
LP 150-75-120-3	132.0	0.360
LP 150-75-120-4	176.0	0.480

(1) Based on 40 mJ/cm<sup>2</sup> UV dose at 95% UV transmittance

### ► Materials

- **Reactor Material:** 316L stainless steel/quartz thimble/  
silicon O-ring
- **Panel Material:** mild steel epoxy painted

### ► Remote controls and alarms

- **Digital Inputs:** lamp start-stop, waterflow interlock
- **Digital Outputs:** system status, pre-alarm, system faults

### ► Standards

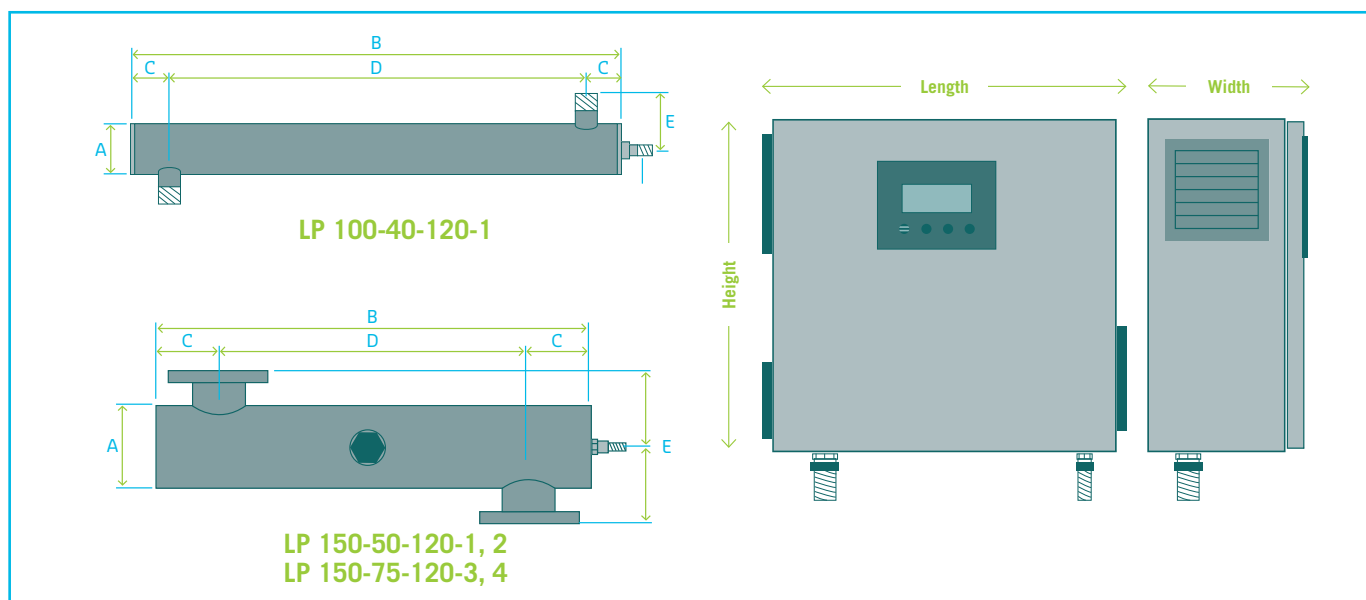
- **Flanges:** BS, ANSI
- **Reactor Pressure Rating:** 145 psi
- **Electrical:** CE, EN
- **Main Power Supply:** 220-240V/1ph/50-60 Hz
- **Panel Rating:** NEMA 12

### ► Options

- **Stainless steel panel**
- **UV sensor (only LP 150)**

## DIMENSIONS

Aquaray® LP Model	Reactor Dimensions (inch)					IN-OUT	Panel: l x h x w
	A	B	C	D	E	inch	inch
LP 100-40-120-1	4	38	3	33	4	1 1/2 BSP	15.7 x 23.6 x 7.9
LP 150-50-120-1	6	38	4	30	5	2"	15.7 x 23.6 x 7.9
LP 150-50-120-2	6	38	4	30	5	2"	15.7 x 23.6 x 7.9
LP 150-75-120-3	6	38	4	30	5	3"	15.7 x 23.6 x 7.9
LP 150-75-120-4	6	38	4	30	5	3"	15.7 x 23.6 x 7.9



## Contacts

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