

# UltraDynamics®

## Light Industrial Series 8102-LIE

The UltraDynamics® ultraviolet purifier, Series 8102-LIE represents one of the world's simplest and most practical means of destroying disease-causing microorganisms in water. This is accomplished without the use of heat or harsh chemicals, without effecting taste or creating odor, or adding irritating or allergenic properties to the water. UltraDynamics® purifiers have proved effective in countless commercial, industrial and domestic applications around the world.

Series 8102-LIE ultraviolet purifiers are available in three models at flow rates from 3 to 30 GPM.

The unique 8102-LIE design has all system components mounted in a single, compact enclosure for easy installation and maintenance.

Very economical, 8102-LIE purifiers operate with low power consumption and at pennies a day. They are simple to maintain, and are well suited to fresh water applications including microorganism control of water on farms, food and beverage processing; pre and post treatment for reverse osmosis systems and laboratories.



### Features:

- φ 316 stainless steel reactor
- φ Compact, single enclosure
- φ Fast, easy installation
- φ Low power consumption
- φ Economic to operate
- φ Easy access to UV lamp for maintenance
- φ Flow rate capacities from 3 to 30 GPM
- φ Effective in commercial, industrial and domestic applications
- φ Well suited to commercial drinking water disinfection

### Options:

- φ UV intensity monitor
- φ Flow control
- φ Automatic shut-off valve
- φ Lamp-out warning system
- φ Elapse time meter
- φ 240 VAC



## Technical Data

**Material:** Electro-polished 316 stainless steel chamber

**Operating Pressure:** 125 psig maximum

**UV Lamp:** germicidal

**Protective Sleeve:** Pure fused quartz sleeve

**UV Dose:** 30-100,000  $\mu\text{Ws}/\text{cm}^2$  (Dependant in water quality & flow)

**Power Requirements:** Reference Table 120V, 60Hz or 220V, 50 Hz

**Power Supply Box:** Stainless Steel

**Mounting:** Horizontal or vertical

Model	Capacity Clear/ Fresh Water	Inlet/Outlet Size	Dimensions	Amps		Shipping Weight	No. of Lamps
				120	220		
8102-LIE-7	4 GPM (0.9 m <sup>3</sup> /hr)	3/4" NPT	18" x 4" x 6 3/4" (457 x 101 x 171)	0.6	0.3	19 lbs 9 kg	1
8102-LIE-15	11 GPM (2.5 m <sup>3</sup> /hr)	3/4" NPT	36" x 4 1/8" x 6 3/4" (914 x 104 x 171)	0.6	0.3	28 lbs 13 kg	1
8102-LIE-30	30 GPM (6.6 m <sup>3</sup> /hr)	1 1/2" NPT	40" x 6 1/4" x 8 1/2" (1016 x 159 x 216)	1.2	0.6	50 lbs 23 kg	2

### Warranty and Capability

Severn Trent Services UltraDynamics® Ultraviolet Disinfection products are warranted for eighteen months from the date of invoice, or twelve months from the date of installation, whichever is earlier.

Disinfection technologies, water quality monitors and instrumentation for water and wastewater are areas of specialization. Over 35 years of industrial and municipal application experience in the water and wastewater industries.

### Brief Specification

The Ultraviolet (UV) Disinfection System shall incorporate a single low pressure, germicidal UV lamp positioned in a 316 stainless steel chamber. The system shall include a UV lamp, protective quartz sleeve and built-in power supply for (120 Vac, 60 Hz) (220 Vac, 50 Hz) operation

Optional items (UV intensity monitor) (lamp-out warning system) (flow control) (manual wiper for LI-7 or LI-15) (auto shut-off solenoid) (elapsed time meter) shall be provided.

The UV Disinfection system shall provide disinfection up to a maximum flow rate of (7) (15) (30) GPM.

The Ultraviolet (UV) Disinfection System shall be an UltraDynamics® Series 8102-LIE as manufactured by Severn Trent Services.

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