

UltraDynamics

Series 8102-GIE General Industrial

The UltraDynamics Series GIE UV Disinfection units are design and manufactured for maximum performance and reliability under demanding industrial applications.

The Series GIE provides in excess of 30,000 micro-watt seconds per square centimeter of 254 nm ultraviolet energy across a fluid medium for positive kill of pathogenic microorganisms.

The Series GIE also exceeds U.S. Department of Health requirements for ultraviolet disinfection of potable water. The germicidal ultraviolet lamps are rated for over 9,000 hours of continuous use.

Operation of the Series GIE can be enhanced by adding one or more of several available options. Addition of the optional manual cleaning system for quartz sleeves helps assure peak operating efficiency. Optional narrowband germicidal UV monitor senses over 90% 254 nanometer germicidal wave length. Additional special options available depending on applications.



Features:

- φ 304 stainless steel power
- φ The ability to mount the power enclosure remotely
- φ Lamp out indicators
- φ Running time meter
- φ Interchangeable with 185 nm or 254 nm UV lamp
- φ Pure fused quartz
- φ Ability to mount horizontally or vertically
- φ Fan cooled on 4-lamp models
- φ Easy dual compression seals
- φ UV sensor port
- φ Machine heads (no weldments)
- φ Removable flanged head
- φ UV resistant O-rings and head gasket
- φ Optional manual wiper system
- φ UV resistant O-rings and head gasket
- φ Optional UV monitor



TECHNICAL DATA

APPLICATIONS

- φ Pre and post reverse osmosis
- φ Storage tanks
- φ Pre and post deionizers
- φ Pre submicron and ultrafiltration
- φ Recirculation loops
- φ TOC reduction
- φ Ozone destruction

Industries:

Pharmaceutical	Hospitals
Universities	Cosmetic
Micro Electronics	Research
Blood Banks	Medical Centers
Food	

GENERAL

- φ Pressure drop at rated flow less than 1 psi
- φ Low power consumption
- φ Operating pressure at 125 psig
- φ Maximum pressure 150 psig

Construction:

304 stainless steel chambers standard or 316L optional
Electropolished and passivated

Model	Flow		Inlet Size	Amps 120V	Amps 220V	Dimensions L x W xH in (mm)	Shipping Weight	No. of Lamps
	Fresh	High						
8102-GIE-30	24 GPM (5.5 m ³ /hr)	30 GPM (6.6 m ³ /hr)	1 1/2" NPT	1.3	0.6	39" x 8 1/4" x 13" (991 x 210 x 329)	60 lb 27 kg	2
8102-GIE-50	40 GPM (9 m ³ /hr)	50 GPM (11 m ³ /hr)	2" NPT	2.1	1.1	39" x 8 1/4" x 13" (991 x 210 x 329)	75 lb 34 kg	4
8102-GIE-70	50 GPM (11 m ³ /hr)	60 GPM (14 m ³ /hr)	2" NPT	1.8	0.9	66" x 8 1/4" x 13" (1677 x 210 x 329)	100 lb 44 kg	2
8102-GIE-100	90 GPM (20 m ³ /hr)	100 GPM (23 m ³ /hr)	2" NPT	3.2	1.6	66" x 8 1/4" x 13" (1677 x 210 x 329)	150 lb 68 kg	4

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.

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