

Industrial Ultraviolet Sterilizers

Capacity: 35 to 2,206 GPM

UVI
SERIES

The UVI series is a family of robust and flexible UV systems with advanced technology designed to meet the stringent requirements of pharmaceutical, food & beverage, microelectronics, and other industrial markets. The UVI breaks down the following micro-organisms: E.coli and fecal coliform, as well as trace chemicals; ozone, chlorine, total organic carbon. The treatment chamber is constructed of 316L SS with two finish options. The control panel is constructed of 304 SS and is equipped with a universal controller which provides control, monitoring and operational information in a single convenient location.



Standard Features

- Low-pressure high-output lamps (LPHO)
- Lamp status indicator
- System hours of operation
- Lamp out alert (LOA)
- Remote start/stop (HOA)
- 304 stainless steel control cabinet
- 316L stainless steel treatment chamber
- Ra 15 internal surface finish
- EPDM elastomers

Available Options

- UV monitoring package: UV intensity reading with NIST certified sensor
- Control panel: UL type 4X or UL type 12
- Control panel: sloped top
- 4-20mA output signal with UV monitoring option
- Viton elastomers

Minimum Water Quality Requirements

- Fe count is less than: 0.3 mg/l
- H₂S count is less than: 0.05 mg/l
- TSS count is less than: 10 mg/l
- Mn count is less than: 0.05 mg/l
- TH level is less than 10 grains per gallon
- Turbidity is less than 1 NTU
- Tannins is less than 0.1 mg/l

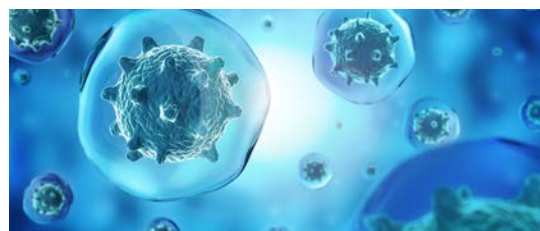
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Advantages of UV

- 💧 **Effective:** Virtually all microorganisms are susceptible to UV disinfection
- 💧 **Economical:** Hundreds of gallons of water can be purified for a few cents per day
- 💧 **Safe:** No danger or way of overdosing, no addition of hazardous chemicals
- 💧 **Easy:** Simple installation and maintenance. Minimum space requirements
- 💧 **Versatile:** Capacities up to 2,206 gallons per minute
- 💧 **Compact footprint**
- 💧 **Proven, robust components**
- 💧 **Flexible panel installation**
- 💧 **Compact chamber design**
- 💧 **User-friendly human machine interface (HMI)**
- 💧 **Improved lamp technology**



Specifications		SUV-35	SUV-60	SUV-87	SUV-120	SUV-164	SUV-230	SUV-320	SUV-353	SUV-564	SUV-700	SUV-793	SUV-1080	SUV-1398	SUV-1412	SUV-2206
Flow Rate (gpm)		35	60	87	120	164	230	320	353	564	700	793	1080	1398	1412	2206
Number of UV lamps		1	2	3	2	2	4	4	4	4	6	8	8	8	10	12
Treatment Chamber	Material of Construction	316L Stainless Steel														
	Lamp Length - inch	15			30				60							
	Chamber diameter - inch	6				8	6	8	6	8			10	12	14	16
	ANSI flanges size- inch	2			3		4			6			8			10
Electrical	Volts	110-240V, 50/60Hz, Single Phase, 2W+GND														
	Power Consumption (W)	63	145	165	155	155	297	297	583	583	1,153	1,438	1,438	1,438	1,723	2,008
Operating Conditions	Maximum water operating temperature F° (C°)	40°-104° (5°-40°)														
	Maximum Operating Pressure PSI (BAR)	150 (10)														
Surface Finish		Ra15														
Elastomers		EPDM														
Control Panel	Material of Construction	304 Stainless Steel														
	Rating	UL Type 1 (IP51)													UL Type 12 (IP54) with Fan	
	Size (HxWxD) in (cm)	16x16x7 (41x41x18)								16x20x9 (41x51x23)				22x23x9 (59x59x23)		
	Shape	Flat Top													Sloped Top	
	Cooling Mechanism	Fan														
	Operating Temp F° (C°)	34°-104°(1°-40°)														
Monitoring and Controls		Base Package: Lamp status indicator, System hours of operation, Lamp out alert (LOA) and Remote start/stop (HOA)														

Note: system designed based on 94% UVT, Dose Level: 30 mJ/cm2 after 9,000 hours of operation.

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