

UV Disinfection Systems SL UV Systems

Product Overview

The SL Series of UV systems are designed for a wide range of laboratory and industrial applications including germicidal disinfection, ozone destruction, and TOC reduction. The stainless steel pressure vessel provides a durable and non-contaminating surface for demanding applications in food, beverage, pharmaceuticals, and ultra-pure water applications. Available in sizes ranging from 1 to 11 m³/h (5 to 50 US gpm), the SL UV systems come with many standard features available to enhance the operation and control capabilities to meet application-specific requirements.

For Laboratory applications, the SL-LAB UV systems provide a simple and effective solution. Available in sizes ranging from 0.1 to 0.5 m³/h (0.5 to 2 US gpm), their compact design and mounting options offer flexibility and ease of installation.

SL UV systems provide chemical-free disinfection which is economical to operate and easily serviced.

Applications

- Food Processing
- Beverage plants
- Pharmaceutical
- Hospitals
- Cosmetics
- Laboratories
- Post DI/RO
- Process water
- Potable water
- Industrial wastewater

Standard Features

- 316L stainless steel vessel
- Electro-polished and passivated internal and external surfaces
- Removable heads
- Monitoring port
- NPT fittings
- Remote electrical enclosure
- Energy efficient ballasts
- Running time meter
- LED lamp status indicators
- Low pressure standard or high output (HO) lamp technology with 12,000 hour lamp life
- Brass compression fittings



SL UV Systems Product Line Sheet

Key Benefits

- Custom configurations available
- Ease of installation, operation, and maintenance
- Space-saving designs with small footprints
- High Purity internal surfaces

Optional Features

- Vertical orientation (MV) for space savings
- Flange (US and DIN) connections
- Sanitary fittings
- UV monitor- analog or digital
- Hand-Off-Auto switch (HOA)
- High heat shutoff
- PLC control
- Manual or automatic quartz cleaning
- Explosion proof
- Skid mounting
- Stainless steel light traps
- Stainless steel compression fittings

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Technical Data

SL-LAB Series of UV Systems

Model	Capacity ¹		FNPT Connection (Inches)	Power Consumption (Watts)	Electrical Supply	Number of Lamps	Dry Weight		Dimensions L x H x W mm (in)	Control Panel Dimensions H x W x D mm (in)
	m ³ /h	US gpm					kg	lbs		
SL-LAB-0.5	0.11	0.5	1/4	6	120 50/60	1	0.9	2	178 x 64 mm 7" x 2.5"	102 x 64 x 64 mm 4" x 2.5" x 2.5"
SL-LAB-1	0.23	1	1/4	10	120 50/60	1	0.9	2	279 x 64 mm 11" x 2.5"	102 x 64 x 64 mm 4" x 2.5" x 2.5"
SL-LAB-2	0.45	2	3/8	14	120 50/60	1	1.1	2.5	378 x 51 x 76 mm 15.25" x 2" x 3"	102 x 64 x 64 mm 4" x 2.5" x 2.5"

SL Series of UV Systems

Model	Capacity ¹		MNPT Connection (inches)	Power Consumption (Watts)	Electrical Supply (V/Hz)	Number of Lamps	Dry Weight		Dimensions (L X H)	Control Panel Dimensions (H x W x D)
	m ³ /h	US gpm					kg	lbs		
SL-1S	1.6	7	3/4	17	120 50/60	1	3.6	8	457 x 159 x 152 mm 18" x 6.25" x 6"	165 x 165 x 102 mm 6.5" x 6.5" x 4"
SL-1S-HO	2.3	10	3/4	38	120 50/60	1	3.6	8	457 x 159 x 152 mm 18" x 6.25" x 6"	165 x 165 x 102 mm 6.5" x 6.5" x 4"
SL-1R	3.4	15	3/4	40	120 50/60	1	5.0	11	940 x 159 x 152 mm 37" x 6.25" x 6"	140 x 229 x 102 mm 5.5" x 9" x 4"
SL-1RV	3.4	15	3/4	40	120 50/60	1	9.0	20	1346 x 508 x 432 mm 53" x 20" x 17"	165 x 254 x 127 mm 6.5" x 10" x 5"
SL-1R-HO	4.5	20	1	80	120 50/60	1	5.0	11	940 x 159 x 152 mm 37" x 6.25" x 6"	140 x 229 x 102 mm 5.5" x 9" x 4"
SL-1RV-HO	4.5	20	1	80	120 50/60	1	9.0	20	1346 x 508 x 432 mm 53" x 20" x 17"	165 x 254 x 127 mm 6.5" x 10" x 5"
SL-2R	6.8	30	1.5	80	120 50/60	2	10.4	23	940 x 254 x 178 mm 37" x 10" x 7"	203 x 279 x 152 mm 8" x 11" x 6"
SL-2RV	6.8	30	1.5	80	120 50/60	2	15.0	33	1346 x 508 x 432 mm 53" x 20" x 17"	203 x 279 x 152 mm 8" x 11" x 6"
SL-2R-HO	11.4	50	2	160	120 50/60	2	10.4	23	940 x 254 x 178 mm 37" x 10" x 7"	203 x 279 x 152 mm 8" x 11" x 6"
SL-2RV-HO	11.4	50	2	160	120 50/60	2	15.0	33	1346 x 508 x 432 mm 53" x 20" x 17"	203 x 279 x 152 mm 8" x 11" x 6"

¹ Capacity at a UV Dose of 40mJ/cm², at end of lamp life, and UV Transmittance of 98% (254 nm; 1-cm cell)

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