

$K2^{5.0}$

Models LK5-A12, LK5-A22, LK5-A42, LK5-A62



Applications Include:

- Food & Beverage
- Pharmaceutical
- Swimming Pools
- Water Reuse
- Ultrapure
- Recreational Water
- Aquaculture
- Municipal

COMMERCIAL/INDUSTRIAL DISINFECTION SOLUTIONS

LUMINOR'S K2 line of disinfection systems are specifically designed and built to handle the challenging environments of process and manufacturing industries as well as pool and leisure applications.

Unsure about needing a UV sensor or if regulations require you to add a sensor? There is no need to replace the entire system.....simply add a UV sensor module to the ${\rm K2^{5.0}}$ reactor as it comes with an integral sensor port built in! Plug the optional UV sensor into the pre-wired controller and the UV intensity will be displayed on the LCD output.

Constructed with highly polished 316L stainless steel reactors and stainless steel enclosures, K2^{5,0} uses proven low pressure amalgam (LP-AM) lamp technology for maximum power density and efficiency all in a small footprint.

Controlling microbiological (bacteria & virus) issues in water (or other viscous fluids), including *E.coli*, *Cryptosporidium* and *Giardia lamblia* is safe and simple with LUMINOR UV systems. UV does not affect the aesthetic quality of the fluid and the process does not add anything to the fluid, nor create any disinfection by-products.

Covering a wide variety of applications in both regulated and unregulated markets, K2 offers environmentally friendly disinfection at lower capital and operating costs than traditional disinfection solutions.

Product Features

- Modular 304 stainless steel control panel with LCD display for remaining lamp life, total running hours, audible & visual lamp failure, remote-on and dry contacts
- 316L stainless steel, polished reactors with flanged end-plate
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30 mJ/cm²
- User friendly bayonet style lamp connectors (quick ¼ turn removal with no extra tools needed)
- True gland seal retaining nuts with positive stop
- Reliable, industry proven low pressure amalgam (LP-AM) coated UV lamps with ceramic bases for durability and a 12,000 hour lamp life
- Constant current electronic ballasts

Available Systems

LK5-A12 for flow rates of 325 lpm (85 gpm) (20 m³/hr) LK5-A22 for flow rates of 650 lpm (175 gpm) (40 m³/hr) LK5-A42 for flow rates of 1500 lpm (400 gpm) (90 m³/hr) LK5-A62 for flow rates of 2400 lpm (625 gpm) (140 m³/hr)

Control Features

- Individual lamp status indicators (visual & audible failure indicators)
- Lamp age monitor (visual & audible failure indicators)
- Lamp cycle counter (tracks total on-off lamp cycles)
- Service time monitor (tracks total system running time)
- Chamber temperature monitor (monitors high temperatures and no
- Panel temperature monitor (protects electronic circuits from extreme temperatures)
- Remote on/off feature (allows reactor to be controlled remotely and timed with other system components) $\,$
- Automatic reactor shut-down (user configurable)
- Dry contact ouputs
 - Minor alarm (NO/NC)
 Major alarm (NO/NC)

 - Reactor ready (valve control feature)(NO/NC)
- Major alarm output (audible & visual)
- Minor alarm output (audible & visual)

K2^{5.0} - Equipment Specifications

K25.0, Commercial / Industrial / Municipal UV Systems, Non-Monitored Model LK5-A12 LK5-A22 LK5-A42 LK5-A62 167 GPM 327 GPM 758 GPM 1170 GPM 630 lpm 1240 lpm 2870 lpm 4420 lpm (@16mJ/cm2)* 28 6 m³/hr 55 0 m³/hr 87.7 m³/hr 175 4 m³/hr 88.8 GPM 174 GPM 404 GPM 623 GPM Flow Bate 336 lpm 659 lpm 1530 lpm 2360 lpm 20.2 m³/hr 39.5 m³/hr 91.8 m³/hr 141 m³/hr 131 GPM 303 GPM 467 GPM 66.6 GPM 496 lpm 1150 lpm 1770 lpm 252 lpm (@40mJ/cm2) 15.1 m³/hr 29 8 m³/hr 68 8 m³/hr 106 m³/hr Port Size 2" MNPT 3" Flange 4" Flange 6" Flange Electrical 220V / 50-60Hz **Electrical Connection** Lamp Watts 207 414 828 1242 240 460 1340 Power (Watts) 900 316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated Replacement Lamp RL-1000A (2 required) RL-1000A (4 required) RL-1000A (1 required) RL-1000A (6 required) Renlacement Sleeve RQ-1000 (1 required) RQ-1000 (2 required) RQ-1000 (4 required) RQ-1000 (6 required) Reactor Dimensions Contact Factory Controller Dimensions Contact Factory Maximum Operating 10.3 bar (150 psi) Pressure Operating Temperature Range 2-40° C (36-104° F) 254nm UV Intesity Monitor Optional / Upgradeable UVT Monitoring Optional / Upgradeable Dose Calculations Optional / Upgradeable Flow Monitoring Optional / Upgradeable Internal Fault History Yes Remote - On Yes Dry Contacts (Solenoid Ready) Yes 4-20 mA Output Yes Lamn Ane Counter Yes Sample Ports No Visual Lamp-Out Indicator Yes Audible Lamp-Out Alarm Yes Shipping Weight Contact Factory



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System Features

UV Sensor Port - Included



All K25.0 reactors include integral UV sensor ports for future upgradeability. Simply remove the plug and affix the optional UV sensors!

UV Sensor Module - Optional



Allows the 254nm UV wavelength to be measured and displayed via the K2 contoller. The sensors plug directly into the contoller and are mounted in the sensor ports located on all K250 and K260 reactors. Order RS-KUV

Remote Monitoring (Dry Contacts) Output



Allows for the dry contact signal (on/off) provided by the K2 controller to be sent to a remote location. Can be used for remote on, solenoid connection, PLC connection, remote alarm, remote visual, or many other options. (Note: Requires optional 210010 cable/ connector as shown below)

Expandibility Port - Included



Integral communication port allows for system expandability and "future-proofing". New options and expansion modules can communicate with main circuit board through this port.

Manufacturer's Warranty

LUMINOR UV systems are covered by the following warranty:

REACTORS - Ten (10) year Limited Warranty ELECTRONICS - Three (3) year Limited Warranty UV LAMPS - One (1) year Limited Warranty QUARTZ SLEEVES - One (1) year Limited Warranty

Please refer to LUMINOR's complete warranty document for specific details, including conditions and exclusions. This document may be found on the web or by contacting LUMINOR directly.

Replacement Parts

System	Lamps	Sleeves	Ballast
LK5-A12	RL-1000A (1 required)	RQ-1000 (1 required)	RB-K21
LK5-A22	RL-1000A (2 required)	RQ-1000 (2 required)	RB-K22
LK5-A42	RL-1000A (4 required)	RQ-1000 (4 required)	RB-K22
LK5-A62	RL-1000A (6 required)	RQ-1000 (6 required)	RB-K22



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