

5.0 / 6.0

COMMERCIAL & INDUSTRIAL WATER TREATMENT SOLUTIONS

MODELS: LR5/6-355, LR5/6-555, LR5/6-855, LR5/6-1105, LR5/6-1405, LR5/6-1755

LUMINOR's RAINIER range of water treatment systems has the solution for your commercial/industrial application.

Constructed with highly polished 316L stainless steel reactors and industrial grade enclosures, RAINIER uses proven low pressure amalgam (LP-AM) lamp technology, offering stable output in both hot and cold water applications. Whether you want to control water issues in hot or cold water with UVT levels as low as 50% or reduce TOC in industrial-grade waters, RAINIER has you covered.

Unsure about requiring a UV sensor or if regulations require you to add a sensor? With the RAINIER there is no need to replace the entire system - simply add a UV sensor module to the reactor's built-in integral sensor port. Plug the optional UV sensor into the pre-wired controller and the UV intensity will be displayed on the LED output.

APPLICATIONS INCLUDE:

Food & Beverage • Pharmaceutical • Swimming Pools
Water Reuse • Ultrapure • Recreational Water • Aquaculture

PRODUCT FEATURES

- Available in 110V/60Hz. or 230V/50-60Hz.
- Modular control panel with LED display for UV output, remaining lamp life, total running hours, audible & visual lamp failure, remote on and solenoid ready
- 316L stainless steel, polished reactors, with integral sensor port to allow for sensor upgradeability in the future (comes standard with visual glow plug)
- Designed & manufactured to ASME pressure vessel standards
- Reliable, industry proven low pressure amalgam (LP-AM) coated UV lamps with ceramic bases for durability, 12,000 hour lamp life
- Uniform lamp output in both hot or cold applications
- Flexible vertical or horizontal installation
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- True gland seal retaining nut with positive stop
- Constant current electronic controller in a splash-proof case with audible and visual lamp failure indicators

FLOW RATES

35 GPM (132 lpm) LR5/6-355 Series
55 GPM (208 lpm) LR5/6-555 Series
85 GPM (322 lpm) LR5/6-855 Series
140 GPM (530 lpm) LR5/6-1105 Series
180 GPM (681 lpm) LR5/6-1405 Series
215 GPM (814 lpm) LR5/6-1755 Series

MANUFACTURER'S 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

BEST WARRANTY IN THE UV INDUSTRY

*See **luminoruv.com** for complete warranty document, including conditions and exclusions.*

LUMINOR™ ENVIRONMENTAL

RAINIER - EQUIPMENT SPECIFICATIONS

RAINIER, LIGHT COMMERCIAL AMALGAM UV SYSTEMS - UV MONITORED AND NON-MONITORED						
MODEL	**LR5/6-355 LR5/6-355-TOC**	**LR5/6-555 LR5/6-555-TOC**	**LR5/6-855 LR5/6-855-TOC**	**LR5/6-1105 LR5/6-1105-TOC**	**LR5/6-1405 LR5/6-1405-TOC**	**LR5/6-1755 LR5/6-1755-TOC**
Normal Flow Rate 30 mJ/cm² @ 95% UVT	35 GPM 132 lpm 8 m³/hr.	55 GPM 208 lpm 12.5 m³/hr.	85 GPM 322 lpm 19.3 m³/hr.	140 GPM 530 lpm 31.8 m³/hr.	180 GPM 681 lpm 40.9 m³/hr.	215 GPM 814 lpm 48.8 m³/hr.
Hot Water Flow Rate 30 mJ/cm² @ 75% UVT	22 GPM 83 lpm 5 m³/hr.	38 GPM 144 lpm 8.6 m³/hr.	55 GPM 193 lpm 12.9 m³/hr.	75 GPM 284 lpm 17.0 m³/hr.	95 GPM 360 lpm 21.6 m³/hr.	115 GPM 435 lpm 26.1 m³/hr.
LOW UVT Flow Rate 30 mJ/cm² @ 50% UVT	14 GPM 53 lpm 3.2 m³/hr.	23 GPM 87 lpm 5.2 m³/hr.	35 GPM 132 lpm 8 m³/hr.	39 GPM 148 lpm 8.9 m³/hr.	49 GPM 185 lpm 11.1 m³/hr.	60 GPM 227 lpm 13.6 m³/hr.
TOC Flow Rate 150 mJ/cm² @ 98% UVT	7 GPM 26 lpm 1.6 m³/hr.	12 GPM 44 lpm 2.7 m³/hr.	17 GPM 64 lpm 3.9 m³/hr.	31 GPM 117 lpm 7.0 m³/hr.	40 GPM 151 lpm 9.1 m³/hr.	48 GPM 182 lpm 10.9 m³/hr.
Alt. flow-US Public Health 16 mJ/cm² @ 95% UVT	66 GPM 250 lpm 15 m³/hr.	109 GPM 413 lpm 24.8 m³/hr.	167 GPM 632 lpm 37.9 m³/hr.	266 GPM 1007 lpm 60.4 m³/hr.	337 GPM 1276 lpm 76.5 m³/hr.	406 GPM 1537 lpm 92.2 m³/hr.
Alternate Flow 40 mJ/cm² @ 95% UVT	26 GPM 98 lpm 5.9 m³/hr.	44 GPM 167 lpm 10 m³/hr.	67 GPM 252 lpm 15.1 m³/hr.	106 GPM 401 lpm 24.1 m³/hr.	135 GPM 511 lpm 30.7 m³/hr.	163 GPM 617 lpm 37.0 m³/hr.
Port Size	1 ½ " MNPT	2" MNPT	2" MNPT	2 ½" MNPT	3" MNPT	4" ASME Class 150 Flange
Electrical	110V/60Hz. or 230V./50-60Hz. (IEC power cords required) (MUST specify voltage when ordering)					
Plug Type	European CEE 7/7, 3-wire for all 230V. - "2" suffix British Standard, BS1363, 3-wire for all 230V. - "3" suffix Australian AS/NZ 3112, 3-wire for all 230V. - "4" suffix North American IEC, 3 prong 110V. - "1" suffix. North American NEMA 6-15, 3 prong 230V. - "5" suffix					
Lamp Watts	104	152	207	304	344	414
Power (Watts)	120	170	220	320	360	430
Replacement Lamp (@ 254 nm)	RL-500A (1 required)	RL-720A (1 required)	RL-1000A (1 required)	RL-720A (2 required)	RL-843A (2 required)	RL-1000A (2 required)
Replacement Lamp (TOC @ 185 nm)	RL-500A-TOC (1 required)	RL-720A-TOC (1 required)	RL-1000A-TOC (1 required)	RL-720A-TOC (2 required)	RL-843A-TOC (2 required)	RL-1000A-TOC (2 required)
Replacement Sleeve	RQ-500 (1 required)	RQ-720 (1 required)	RQ-1000 (1 required)	RQ-720 (2 required)	RQ-843 (2 required)	RQ-1000 (2 required)
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated					
Reactor Dimensions	4 x 27.2 x 7" (10 x 69 x 18 cm)	4 x 35.8 x 7" (10 x 91 x 18 cm)	4 x 46.9 x 7" (10 x 119 x 18 cm)	6 x 35.8 x 9.4" (15 x 91 x 24 cm)	6 x 40.7 x 9.4" (15 x 103 x 24 cm)	6 x 46.9 x 9.4" (15 x 119 x 24 cm)
Controller Dimensions	12 x 8.4 x 7" (30 x 21 x 18cm)			13.8 x 10.3 x 7" (35 x 26 x 18cm)		
Maximum Operating Pressure	10.3 bar (150 psi)					
Operating Temperature Range	2-40° C (36-148° F)					
UV Monitoring Port (Upgradeability)	YES					
Remote - On	YES					
Dry Contacts (Solenoid Ready)	YES (requires optional 210010 cable assembly sold separately)					
4-20 mA Output	OPTIONAL (requires optional UV sensor (RS-RUV) and cable assembly (210010), sold separately)					
Lamp Age Counter	YES					
Visual Lamp-Out Indicator	YES					
Audible Lamp-Out Alarm	YES					
Shipping Weight	Call Factory	Call Factory	Call Factory	Call Factory	Call Factory	Call Factory

LUMI-LOC™

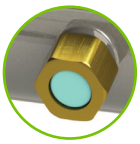


Experience troublesome lamp changes and broken sleeves no longer with LUMINOR's LUMI-LOC™ lamp connector. Lamp changes with an effortless ¼ turn of the connector...no fumbling with metal clips as in competitive systems.



Remote Monitoring (Dry Contacts)
Output (Capability Only)
Allows for the dry contact signal (on/off) provided by the RAINIER 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)

OPTIONAL EQUIPMENT



UV Sensor Port
(Included with LR5 series)
All RAINIER reactors include an integral UV sensor port for future upgradeability. Simply remove the plug and affix the optional UV Sensor!



UV Sensor Module
(Included with LR6 series)
Allows for the 254nm UV wavelength to be measured and displayed via the RAINIER controller. Sensor plugs directly into the controller and is mounted in the sensor port located on all RAINIER reactors. Order part number RS-RUV



Remote Monitoring Cable
Connector and 10 m (33') of cable to remotely control the RAINIER dry contact signal, Order part number 210010



Cooling Fan
To reduce water temperature inside the reactor without wasting any water. Runs independently and continuously.

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