Effective January 8, **2024**

Contact your local distributor for pricing.

LUMINOR™ ENVIRONMENTAL

2024

Residential • Light Commercial
Commercial • Vending • Industrial

ILLUMINATING TECHNOLOGIES FOR LIFE

LEADERS IN ULTRAVIOLET WATER DISINFECTION SOLUTIONS

Mount Fay, Alberta, Canada

LUMINOR™

EVEREST

COMMERCIAL AND INDUSTRIAL SOLUTIONS FOR THE MOST CHALLENGING ENVIRONMENTS.

316L STAINLESS STEEL POLISHED REACTORS

900+ GPM FLOW RATES

12,000 HOUR LAMP LIFE

PRODUCT FEATURES

- Modular control panel with LED display for UV output, remaining lamp life, total running hours, audible & visual lamp failure, remote on and solenoid ready
- Reversible lamp configuration for flexible installation
- Designed & manufactured to ASME pressure vessel standards
- Reliable, industry proven low pressure amalgam (LP-AM) coated UV lamps with ceramic bases
- 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 NEMA 12K (dripping / light splashing) case

SEE PAGE 29 FOR DETAILS

GLACIERUVLED By LUMINOR

INTEGRATED LED SYSTEM

LUMINOR has expanded on the proven efficacy of UV germicidal irradiation, and coupled it with high-tech UVC LED technology. These compact UVC LED modules have a myriad of applications ranging from residential water treatment, water dispensers, appliances, food service, RV, marine, medical, disaster relief and many more.

GUV-4S GUV-5S

WHY LED?

- Compact footprint, high power density UVC LEDs with integral solid state control architecture
- UVC LEDs are “instant-on” devices, requiring no warm-up time to achieve disinfection.
- UVC LEDs have an extremely long service life resulting in zero lamp replacements and reduced labour expenses
- UVC LEDs are free of hazardous materials, which eliminates the risk of a mercury spill due to a lamp breakage
- Unlimited cycling - UVC LED is not impacted by on/off cycles
- Temperature independent, constant UVC output regardless of water temperature
- LUMINOR can custom tailor the wavelength of the LED module for customized UVC applications

SEE PAGE 25 FOR DETAILS

PREMIUM QUALITY SEDIMENT AND ACTIVATED CARBON FILTERS

LC-20S LC-10S
Sediment Filters

LC-20AC
Carbon Filter

LC-20WS
Scale Filter

LUMINOR’s range of sediment and activated carbon filters are the perfect addition to any water treatment system, providing peace of mind that your water supply has passed through these extra filtration steps.

Compatible with LUMINOR’s range of rack systems

SEE PAGE 2 FOR DETAILS

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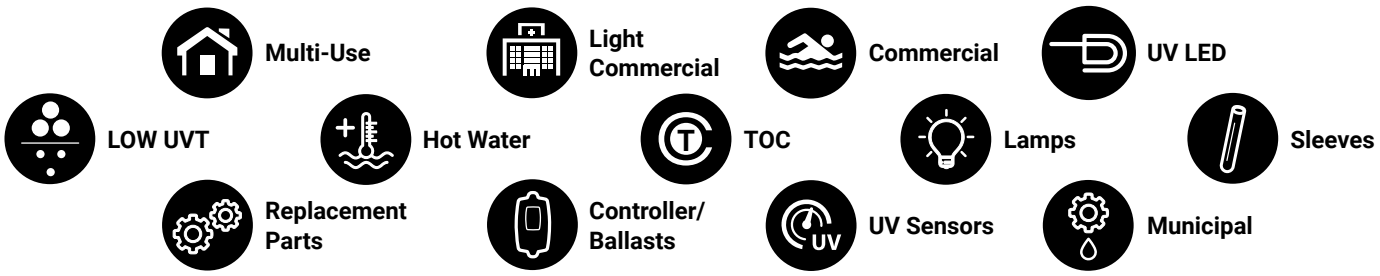

LUMINOR™ BLACKCOMB

Unsure of the microbiological quality of your source water? Looking for additional security from your municipal water source?

LUMINOR HAS THE SOLUTION IN THE BLACKCOMB SERIES OF UV SYSTEMS.

Offering multiple levels of water treatment for city homes, rural properties, cottages, vacation homes and commercial applications. Incorporating true “plug-and-play” technology, conversion to a UV monitored system is a quick and easy process. Available with a simple, value-based platform (LED lamp timer), or an industry leading full colour screen controller displaying system status, lamp countdown, warnings, and a QR code for a direct link to the web.

CALL US TODAY!

SHERPA By LUMINOR

Monitor your UV system remotely from anywhere in your home! Simple plug and play technology provides real-time status of your BLACKCOMB UV system!

UVCONCIERGE By LUMINOR

Reporting live, dynamic feedback on all features and functions of your UV system. Monitor just one system, or ALL the systems that you may service.

LUMINOR ENVIRONMENTAL

LUMINOR BLACKCOMB

BLACKCOMB RACK-MOUNT UV

INTEGRAL FILTER HEAD DESIGN

NEW FILTER HOUSING DRAIN PLUG

- Integral filter design with o-ring groove for fail-safe installation, higher operating pressure (120 psi), and single manifold heads (no potential leaks between heads)
- LB4 models include integral LED lamp countdown timer as standard
- LB5/6 systems include **LIGHTLOCK**™ technology for protected lamp sales
- Flow rates stated at 95% UVT at a UV dose of 30 mJ/cm2
- 316L stainless steel, axial flow reactors allow for optimum efficiency & lamp/sleeve service without the need to drain the water (10 year limited warranty on UV reactors)
- Coated UV lamps for consistent UV output throughout life, 9,000 hour LP lamps, 10,000 hours LP-HO lamps
- Splash-proof controller with constant current electronic ballast

IMAGE	FLOW RATE	MODEL	PORTS	LAMP	SLEEVE	HOUSING 1	HOUSING 2	SHIPPING WEIGHT
LB4-Z1	**8 GPM** (30.3 lpm) (1.82 m³/hr.)	**LB4-Z1**	1" MNPT	RL-420	RQ-420	5 micron sediment LC-10S	N/A	11.36 kg (25 lbs)
		LB5-Z1						
		LB4-Z1-NC	As above but sold without cartridges					
		LB5-Z1-NC	As above but sold without cartridges					
LB5-Z2	**8 GPM** (30.3 lpm) (1.82 m³/hr.)	**LB4-Z2**	1" MNPT	RL-420	RQ-420	5 micron sediment LC-20S	N/A	12.45 kg (27.4 lbs)
		LB5-Z2						
		LB4-Z2-NC	As above but sold without cartridges					
		LB5-Z2-NC	As above but sold without cartridges					
LB4-Z12	**8 GPM** (30.3 lpm) (1.82 m³/hr.)	**LB4-Z12**	1" MNPT	RL-420	RQ-420	5 micron sediment LC-10S	Carbon LC-20AC	18.45 kg (40.6 lbs)
		LB5-Z12						
		LB4-Z12-NC	As above but sold without cartridges					
		LB5-Z12-NC	As above but sold without cartridges					
	15 GPM (56.8 lpm) (3.4 m³/hr.)	**LBH4-Z2**	1" MNPT	RL-420HO	RQ-420	5 micron sediment LC-20S	N/A	12.82 kg (28.2 lbs)
		LBH5-Z2						
		LBH4-Z2-NC	As above but sold without cartridges					
		LBH5-Z2-NC	As above but sold without cartridges					
LBH5-Z22	**15 GPM** (56.8 lpm (3.4 m³/hr.)	**LBH4-Z12**	1" MNPT	RL-420HO	RQ-420	5 micron sediment LC-10S	Carbon LC-20AC	18.82 kg (41.4 lbs)
		LBH5-Z12						
		LBH4-Z12-NC	As above but sold without cartridges					
		LBH5-Z12-NC	As above but sold without cartridges					
	15 GPM (56.8 lpm) (3.4 m³/hr.)	**LBH4-Z22**	1" MNPT	RL-420HO	RQ-420	5 micron sediment LC-20S	Carbon LC-20AC	20.18 kg (44.4 lbs)
		LBH5-Z22						
		LBH4-Z22-NC	As above but sold without cartridges					
		LBH5-Z22-NC	As above but sold without cartridges					

For **PRESSURE GAUGES** and **MISCELLANEOUS PARTS**, please see Page 23

To order, please call **519-837-3800** or email us at **sales@luminoruv.com**

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LUMINOR ENVIRONMENTAL

LUMINOR BLACKCOMB

BLACKCOMB RACK-MOUNT UV

INTEGRAL FILTER HEAD DESIGN

NEW FILTER HOUSING DRAIN PLUG

- Integral filter design with o-ring groove for fail-safe installation, higher operating pressure (120 psi), and single manifold heads (no potential leaks between heads)
- LB4 models include integral LED lamp countdown timer as standard
- LB5/6 systems include **LIGHTLOCK**™ technology for protected lamp sales
- Flow rates stated at 95% UVT at a UV dose of 30 mJ/cm2
- 316L stainless steel, axial flow reactors allow for optimum efficiency & lamp and sleeve service without the need to drain the water (10 year limited warranty on UV reactors)
- Coated UV lamps for consistent UV output throughout life; 10,000 hour LP-HO lamps
- Splash-proof controller with constant current electronic ballast

FLOW RATE	MODEL	PORTS	LAMP	SLEEVE	HOUSING 1	HOUSING 2	HOUSING 3	SHIPPING WEIGHT
15 GPM (56.8 lpm (3.4 m3/hr.)	**LBH4-Z122**	1" MNPT	RL-420HO	RQ-420	Mesh strainer LC-10MS	5 micron sediment LC-20S	Carbon LC-20AC	23.13 kg (51 lbs)
	LBH5-Z122							
	LBH4-Z122-NC	As above but sold without cartridges						
	LBH5-Z122-NC	As above but sold without cartridges						
15 GPM (56.8 lpm) (3.4 m3/hr.)	**LBH4-Z222**	1" MNPT	RL-420HO	RQ-420	5 micron sediment LC-20S	Scale reduction LC-20WS	Carbon LC-20AC	27.21 kg (60 lbs)
	LBH5-Z222							
	LBH4-Z222-NC	As above but sold without cartridges						
	LBH5-Z222-NC	As above but sold without cartridges						

LC-10S	Filter cartridge, 50/5 µm sediment, 10" x 4-1/2"
LC-20S	Filter cartridge, 50/5 µm sediment, 20" x 4-1/2"
LC-20AC	Filter cartridge, 25 µm carbon taste & odour, 20"x 4-5/8"
LC-20WS	Filter cartridge, SCALEARMOR™, 20" x 4-1/2"
310177	O-ring for new style housings (Systems prior to 2017, order PN# 310142)
160021	Filter wrench for new style housings
510035	RACK mount parts kit
160042	Drain Port Cap with O-ring for Filter Housings
LP-2	Pressure gauge, set of 2

NEW

BEST IN CLASS WHOLE HOME SOLUTIONS

LBH5-Z122

LBH5-Z222

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LUMINOR ENVIRONMENTAL

LUMINOR BLACKCOMB

BLACKCOMB MULTI-USE UV

BLACKCOMB 4.1

- Axial flow 304 stainless steel reactors for optimum fluid dynamics yet still allows for lamp/sleeve service without the need to drain the water
- Low pressure (LP) coated UV lamps for consistent UV output throughout rated lamp life of 9,000 hours
- Sensor port for future upgradeability, comes with integral visual glow plug

BLACKCOMB 5.1

4.1 features PLUS:

- Colour user interface with full diagnostics and warnings including QR codes
- LB5/6 systems include **LIGHTLOCK**™ technology for protected lamp sales
- IEP (infinite expandability port) for future upgrades & options

BLACKCOMB 6.1

4.1 and 5.1 features PLUS:

- 254 nm Teflon® based UV sensor with 4-20 mA output capabilities and solenoid ready capabilities (optional modules required)

LB6-061

LB4 Controller with LED lamp countdown

IMAGE	FLOW RATE	MODEL	ELECTRICAL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
	2 GPM (7.6 lpm) (0.45 m3/hr.)	**LB6-021**	90-265V/ 50-60Hz	½" FNPT	RL-210	RQ-210	3.2 kg. (7.1 lbs.)
		LB5-021					
		LB4-021					
	3 GPM (11.4 lpm) (0.7 m3/hr.)	**LB6-031**	90-265V/ 50-60Hz.	½" MNPT	RL-290	RQ-290	3.6 kg. (8 lbs.)
		LB5-031					
		LB4-031					
	6 GPM (22.7 lpm) (1.4 m3/hr.)	**LB6-061**	#3 Best Seller	¾" MNPT	RL-470	RQ-470	4.2 kg. (9.3 lbs.)
		LB5-061	90-265V/ 50-60Hz.				
		LB4-061					
	11 GPM (41.6 lpm) (2.5 m3/hr.)	**LB6-101**	90-265V/ 50-60Hz.	¾" MNPT	RL-820	RQ-820	6.8 kg. (15 lbs.)
		LB5-101					
		LB4-101					
	15 GPM (56.8 lpm) (3.4 m3/hr.)	**LB6-151**	90-265V/ 50-60Hz.	1" MNPT	RL-999	RQ-999	8.0 kg. (17.6 lbs.)
		LB5-151					
		LB4-151					
	21 GPM (79 lpm) (4.8 m3/hr.)	**LB6-201**	90-265V/ 50-60Hz.	1" MNPT	RL-850	RQ-850	7.5 kg. (16.5 lbs.)
		LB5-201					
		LB4-201					

See optional modules on Page 11-16 / see full specifications on Page 43

Sample Screens Available on LB5/6 Controller ONLY

Home Screen

Lamp Life Remaining Screen

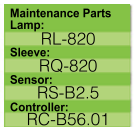
Lamp Expiration Screen

QR Code Screen

Lamp Failure Screen

Corporate Contact Screen

Incorrect Lamp Screen



Parts Screen

Missing Key Screen

Invalid Key Screen

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BLACKCOMB-HO CROSSOVER UV

BLACKCOMB 4.1

- Plastic mounting clamps
- Axial flow 316L stainless steel reactors for optimum fluid dynamics yet still allows for lamp/sleeve service without the need to drain the water
- Designed & manufactured to ASME pressure vessel standards
- Low pressure high-output (LP-HO) coated UV lamps for increased power density and consistent UV output throughout the rated lamp life of 10,000 hours
- Sensor port for future upgradeability, comes with integral visual glow plug
- LED lamp countdown constant current electronic ballast (only on 4.1 series)

BLACKCOMB 5.1

4.1 features PLUS:

- Colour user interface with full diagnostics and warnings including QR codes
- LB5/6 systems include **LIGHTLOCK**™ technology for protected lamp sales
- IEP (infinite expandability port) for future upgrades & options

BLACKCOMB 6.1

4.1 and 5.1 features PLUS:

- 254 nm Teflon® based UV sensor with 4-20 mA output capabilities and solenoid ready capabilities (optional modules required)

IMAGE	FLOW RATE	MODEL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
LBH6-251 LBH4 Controller with LED lamp countdown	**5 GPM** (18.91 lpm) (1.1 m3/hr.)	**LBH6-051**	½" MNPT	RL-210HO	RQ-210	4.5 kg. (9.9 lbs.)
		LBH5-051				
		LBH4-051				
	10 GPM (37.9 lpm) (2.3 m3/hr.)	**LBH6-101**	¾" MNPT	RL-330HO	RQ-330	5.4 kg. (11.9 lbs.)
		LBH5-101 #2 Best Seller				
		LBH4-101				
	15 GPM (57 lpm) (3.4 m3/hr.)	**LBH6-151**	1" MNPT	RL-420HO	RQ-420	6.0 kg. (13.2 lbs.)
		LBH5-151 #1 Best Seller				
		LBH4-151				
	25 GPM (95 lpm) (5.7 m3/hr.)	**LBH6-251**	1" MNPT	RL-600HO	RQ-600	7.1 kg. (15.7 lbs.)
		LBH5-251				
		LBH4-251				
	40 GPM (151 lpm) (9.1 m3/hr.)	**LBH6-401**	1½" MNPT	RL-950HO	RQ-950	9.5 kg. (21 lbs.)
		LBH5-401				
		LBH4-401				

See optional modules on Page 11-16 / see full specifications on Page 44

For additional **TEMPERATURE MANAGEMENT PRODUCTS**, please see Page 16

Sample Screens Available on LB5/6 Controller ONLY

Home Screen

Lamp Life Remaining Screen

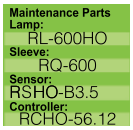
Lamp Expiration Screen

QR Code Screen

Lamp Failure Screen

Corporate Contact Screen

Incorrect Lamp Screen



Parts Screen

Missing Key Screen

Invalid Key Screen

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LUMINOR BLACKCOMB

NSF STANDARD 55, CLASS A - MULTI-USE UV

(FOR USE ON NON-POTABLE SUPPLIES)

- Flow rates stated at **NSF Class A dose of 40 mJ/cm²** at 70% UVT
- System includes 254 nm Teflon® based UV sensor with 4-20 mA output capabilities and solenoid-ready capabilities (optional modules required)
- LB6/LBH6 systems include **LIGHTLOCK™** technology for protected lamp sales
- Colour user interface with full diagnostics and warnings including QR codes
- IEP (infinite expandability port) for future upgrades & options
- 304 stainless steel (BLACKCOMB) / 316L stainless (BLACKCOMB-HO), axial flow reactors allow for simple lamp/sleeve service
- All systems include integral flow restrictor

LB6-02XA

LBH6-25XA

IMAGE	FLOW RATE	MODEL	FOOTPRINT LAMP TYPE	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
	1.6 GPM (6.1 lpm) (0.36 m3/hr.)	**LB6-02XA**	Standard (SO lamps)	½" FNPT	RL-210	RQ-210	3.3 kg. (7.3 lbs.)
		LB6-02A-12V					
	2.2 GPM (8.3 lpm) (0.5 m3/hr.)	**LB6-03XA**	Standard (SO lamps)	½" MNPT	RL-290	RQ-290	3.3 kg. (7.3 lbs.)
		LB6-03A-12V					
	3.4 GPM (12.9 lpm) (0.77 m3/hr.)	**LB6-06XA**	Standard (SO lamps)	¾" MNPT	RL-470	RQ-470	4.2 kg. (9.3 lbs.)
		LB6-06A-12V					
	2.2 GPM (8.3 lpm) (0.5 m3/hr.)	**LBH6-05XA**	Compact size (HO lamps)	½" MNPT	RL-210HO	RQ-210	4.5 kg. (9.9 lbs.)
	4 GPM (15.1 lpm) (0.91 m3/hr.)	**LBH6-10XA**	Compact size (HO lamps)	¾" MNPT	RL-330HO	RQ-330	5.4 kg. (11.9 lbs.)
	5.4 GPM (20.4 lpm) (1.23 m3/hr.)	**LBH6-15XA**	Compact size (HO lamps)	1" MNPT	RL-420HO	RQ-420	6.0 kg. (13.2 lbs.)
	6.3 GPM (23.8 lpm) (1.43m3/hr.)	**LB6-10XA**	Standard (SO lamps)	¾" MNPT	RL-820	RQ-820	6.8 kg. (15 lbs.)
	7.9 GPM (29.9 lpm) (1.79 m3/hr.)	**LB6-15XA**	Standard (SO lamps)	1" MNPT	RL-999	RQ-999	8.0 kg. (17.6 lbs.)
		LBH6-25XA	Compact size (HO lamps)		RL-600HO	RQ-600	7.1 kg. (15.7 lbs.)
	18 GPM (68.1 lpm) (4.08 m3/hr.)	**LBH6-40XA**	Compact size (HO lamps)	1½" MNPT	RL-950HO	RQ-950	9.5 kg. (21 lbs.)

NOTE: when ordering replace the "**X**" in the model number with the applicable power cord, use "**1**" for North American, use "**2**" for European, use "**3**" for British Standard and use "**4**" for Australia/New Zealand

See optional modules on Page 11-16 / see full specifications on Pages 45/47

SPECIAL NOTE: Due to the stringent testing protocol of the NSF Class A standard it is **IMPERATIVE** that water quality parameters be met before the UV unit is installed. Please refer to Installation Guidelines for specific parameters. A UVT (transmittance) test **MUST** also be performed on the raw water as this test will provide critical data that could effect system performance. LUMINOR will perform UVT tests at no charge on any water sample that is sent in for analysis (prepaid samples will NOT be accepted). For further information on water quality, please visit our website at **luminoruv.com** and for a full NSF listing, please visit **nsf.org**.

To order, please call **519-837-3800** or email us at **sales@luminoruv.com**

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LUMINOR ENVIRONMENTAL

LUMINOR BLACKCOMB

NSF STANDARD 55, CLASS B - MULTI-USE UV

(FOR USE ON POTABLE SUPPLIES)

- Flow rates stated at **NSF Class B dose of 16 mJ/cm²** at 70% UVT
- 254 nm Teflon® based UV sensor with 4-20 mA output capabilities and solenoid-ready capabilities (on LB6 versions ONLY)
- LB5/6 systems include **LIGHTLOCK™** technology for protected lamp sales
- Colour user interface with full diagnostics and warnings including QR codes
- IEP (infinite expandability port) for future upgrades & options
- 304 stainless steel (BLACKCOMB) / 316L stainless (BLACKCOMB-HO), axial flow reactors allow for simple lamp/sleeve service
- All systems include integral flow restrictor

IMAGE	FLOW RATE	MODEL	FOOTPRINT LAMP TYPE	UV MONITOR	PORTS	LAMP/ SLEEVE	SHIPPING WEIGHT
LB6-03XB LB5-06XB LBH5-25XB	**2.9 GPM** (11.0 lpm) (0.66 m3/hr.)	**LB5-02XB**	Standard (SO lamps)	NO	½" FNPT	RL-210 RQ-210	3.3 kg. (6 lbs.)
		LB6-02XB		YES			
	5.2 GPM (19.7 lpm) (1.18 m3/hr.)	**LB5-03XB**	Standard (SO lamps)	NO	½" MNPT	RL-290 RQ-290	3.3 kg. (6 lbs.)
		LB6-03XB		YES			
	5.4 GPM (20.4 lpm) (1.23 m3/hr.)	**LBH5-05XB**	Compact size (HO lamps)	NO	½" MNPT	RL-210HO RQ-210	4.5 kg. (9.9 lbs.)
		LBH6-05XB		YES			
	7.6 GPM (28.8 lpm) (1.73 m3/hr.)	**LB5-06XB**	Standard (SO lamps)	NO	¾" MNPT	RL-470 RQ-470	4.2 kg. (9.3 lbs.)
		LB6-06XB		YES			
		LBH5-10XB	Compact size (HO lamps)	NO	¾" MNPT	RL-330HO RQ-330	5.4 kg. (11.9 lbs.)
		LBH6-10XB		YES			
	13 GPM (49.2 lpm) (2.95 m3/hr.)	**LB5-10XB**	Standard (SO lamps)	NO	¾" MNPT	RL-820 RQ-820	6.8 kg. (15 lbs.)
		LB6-10XB		YES			
		LBH5-15XB	Compact size (HO lamps)	NO	1" MNPT	RL-420HO RQ-420	6.0 kg. (13.2 lbs.)
		LBH6-15XB		YES			
	22 GPM (83.3 lpm) (5.00 m3/hr.)	**LB5-15XB**	Standard (SO lamps)	NO	1" MNPT	RL-999 RQ-999	8.0 kg. (17.6 lbs.)
		LB6-15XB		YES			
		LBH5-25XB	Compact size (HO lamps)	NO	1" MNPT	RL-600HO RQ-600	7.1 kg. (15.7 lbs.)
		LBH6-25XB		YES			
	28.0 GPM (106.0 lpm) (6.36 m3/hr.)	**LBH5-40XB**	Compact size (HO lamps)	NO	1½" MNPT	RL-950HO RQ-950	9.5 kg. (21 lbs.)
		LBH6-40XB		YES			

NOTE: when ordering replace the "**X**" in the model number with the applicable power cord, use "**1**" for North American, use "**2**" for European, use "**3**" for British Standard and use "**4**" for Australia/New Zealand

See optional modules on Page 11-16 / see full specifications on Pages 46/48

For additional **TEMPERATURE MANAGEMENT PRODUCTS**, please see Page 16

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LUMINOR ENVIRONMENTAL

LUMINOR BLACKCOMB

12VDC BLACKCOMB MULTI-USE UV

12 VOLT

BLACKCOMB 5.1

- Axial flow 304L stainless steel reactors for optimum fluid dynamics yet still allows for lamp/sleeve service without the need to drain the water
- Include **LIGHTLOCK**™ technology for protected lamp sales
- Low pressure coated UV lamps for consistent output throughout lamp life of 9,000 hours
- Splash-proof controller with constant current electronic ballast
- Colour user interface with full diagnostics and warnings including QR codes
- IEP (infinite expandability port) for future upgrades & options
- Sensor port for future upgradeability, comes with integral visual glow plug

BLACKCOMB 6.1
5.1 features plus:

- 254 nm Teflon® based UV sensor with 4-20 mA output capabilities and solenoid ready capabilities (optional modules required)

IMAGE	FLOW RATE	MODEL	ELECTRICAL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
LB6-02-12V	**2 GPM** (7.6 lpm) (0.45 m3/hr.)	**LB6-02-12V**	12 VDC	½" FNPT	RL-210	RQ-210	3.2 kg. (7.1 lbs.)
		LB5-02-12V	12 VDC				
	3 GPM (11.4 lpm) (0.7 m3/hr.)	**LB6-03-12V**	12 VDC	½" MNPT	RL-290	RQ-290	3.6 kg. (8 lbs.)
		LB5-03-12V	12 VDC				
	6 GPM (22.7 lpm) (1.4 m3/hr.)	**LB6-06-12V**	12 VDC	¾" MNPT	RL-470	RQ-470	4.2 kg. (9.3 lbs.)
		LB5-06-12V	12 VDC				
	All systems supplied with 6' (1.82m) bare leads, AC adapter (wall wart) sold on page 23						

See optional modules on Page 11-16 / see full specifications on Page 43

VENDING SYSTEMS (integral dry contacts)

- Vending platform with integral dry contacts (NO, NC and COMMON)
- Green LED status for lamp on, Red LED status for lamp fail, **NO** audible
- Based on 4.1 series features, incl. 304L stainless chambers and viewing port

IMAGE	FLOW RATE	MODEL	ELECTRICAL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
	2 GPM (7.6 lpm) (0.45 m3/hr.)	**LBV-021**	90-265V/ 50-60Hz.	½" FNPT	RL-210	RQ-210	3.2 kg. (7.1 lbs.)
	3 GPM (11.4 lpm) (0.7 m3/hr.)	**LBV-031**	90-265V/ 50-60Hz.	½" MNPT	RL-290	RQ-290	3.6 kg. (8 lbs.)
	6 GPM (22.7 lpm) (1.4 m3/hr.)	**LBV-061**	90-265V/ 50-60Hz.	¾" MNPT	RL-470	RQ-470	4.2 kg. (9.3 lbs.)

To order, please call **519-837-3800** or email us at **sales@luminoruv.com**

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CROSSOVER UV SPECIALTY APPLICATIONS

HOT WATER SYSTEMS
For legionella control and disinfection of hot water recirculation loops

LOW UVT SYSTEMS
For applications of lower water quality (50% UVT)

TOC REDUCTION SYSTEMS
For total organic carbon reduction

- Axial flow 316L stainless steel reactors for optimum fluid dynamics yet still allows for lamp/sleeve service without the need to drain the water
- LBH5/6 systems include **LIGHTLOCK**™ technology for protected lamp sales
- Low pressure high-output (LP-HO) coated UV lamps for increased power density and consistent UV output throughout the rated lamp life of 10,000 hours
- True gland seal retaining nut with positive stop

IMAGE	APPLICATION			PORTS	SHIPPING WEIGHT
	HOT WATER 30mJ @ 75%	**LOW UVT 30mJ @ 50%**	**TOC 150mJ @ 98%**		
LBH5-151-HW	**6.5 GPM** (25 lpm)	NA	NA		
	LBH6-101-HW	NA	NA	3/4" MNPT	5.4 kg. (11.9 lbs.)
	LBH5-101-HW	NA	NA		
	LBH4-101-HW	NA	NA		
	RL-330HW	NA	NA	UV lamp	
	RQ-330			Quartz sleeve	
	10 GPM (38 lpm)	**6 GPM** (23 lpm)	**3.2 GPM** (12 lpm)		
	LBH6-151-HW	**LBH6-151-50**	**LBH6-151-TOC**	1" MNPT	6.0 kg. (13.2 lbs.)
	LBH5-151-HW	**LBH5-151**	**LBH5-151-TOC**		
	LBH4-151-HW	**LBH4-151**	**LBH4-151-TOC**		
	RL-420HW	**RL-420HO**	**RL-420HO-TOC**	UV lamp (RL-420HO-TOC is a 185 nm lamp)	
	RQ-420			Quartz sleeve	
LBH6-401-50	**16 GPM** (61 lpm)	**10 GPM** (38 lpm)	**5 GPM** (19 lpm)		
	LBH6-251-HW	**LBH6-251-50**	**LBH6-251-TOC**	1" MNPT	7.1 kg. (15.7 lbs.)
	LBH5-251-HW	**LBH5-251**	**LBH5-251-TOC**		
	LBH4-251-HW	**LBH4-251**	**LBH4-251-TOC**		
	RL-600HW	**RL-600HO**	**RL-600HO-TOC**	UV lamp (RL-600HO-TOC is a 185 nm lamp)	
	RQ-600			Quartz sleeve	
	28 GPM (106 lpm)	**17 GPM** (64 lpm)	**8 GPM** (30 lpm)		
	LBH6-401-HW	**LBH6-401-50**	**LBH6-401-TOC**	1½" MNPT	9.5 kg. (21 lbs.)
	LBH5-401-HW	**LBH5-401**	**LBH5-401-TOC**		
	LBH4-401-HW	**LBH4-401**	**LBH4-401-TOC**		
	RL-950HW	**RL-950HO**	**RL-950HO-TOC**	UV lamp (RL-950HO-TOC is a 185 nm lamp)	
	RQ-950			Quartz sleeve	

See optional modules on Page 11-16 / see full specifications on Page 50

For additional **TEMPERATURE MANAGEMENT PRODUCTS**, please see Page 16

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Pool UV by LUMINOR™

ADDITIONAL PROTECTION FOR POOLS & SPAS

Models: POOLUV-45, POOLUV-75
LBH4-PS, LBH4-PL

- **Inactivates 99.9% of microorganisms keeping your pool cleaner and healthier**
- **Dramatically reduces chemical usage without harmful byproducts**

Model	POOLUV-45	POOLUV-75
Flow Rate	45 GPM (170 lpm) (10.2 m^3/hr)	75 GPM (265 lpm) (15.9 m^3/hr)
Port Size	2" MNPT	
Electrical	120V ± 10% / 50-60Hz	
Lamp Watts	67	101
Replacement Lamp	PUV-600	PUV-900
Replacement Sleeve	RQ-650	RQ-900
Replacement Controller	211105	
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated	
Chamber Dimensions	3.5 x 25.8" (8.9 x 65.5 cm)	3.5 x 37.6" (8.9 x 95.5 cm)
Controller Dimensions	10.2 x 4.3 x 2.2" (25.8 x 10.8 x 5.5 cm)	
Operating Pressure	0.7-10.3 bar (10-150 psi)	
Operating Water Temp.	2-40° C (36-104° F)	
Shipping Weight	Contact Factory	Contact Factory

For legacy **POOL UV PRODUCTS**, please see Page 21

PRODUCT FEATURES

- Integrated lamp monitor with both audible and visual indication of lamp life
- 316L stainless steel chamber for maximum reflective disinfection
- Drain port for easy winterization
- For vertical or horizontal installation
- **Best warranty in the pool industry:**
  2 Year Limited Warranty on Reactors and Electronics
  1 Year Limited Warranty on Lamps and Sleeves

NEW

- ***Improved flowrates over previous generation***
- ***Zinc anode mitigates the risk of corrosion***
- ***Rated for outdoor use***
- ***User-friendly, tool-free lamp changes***
- ***Guaranteed OEM Lamp Replacements with Lightlock™ Technology***

To order, please call **519-837-3800** or email us at **sales@luminoruv.com**

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UV Air Systems by LUMINOR™

Improve your **Indoor Air Quality** with UVC Air Purification

Ensure that you and your family are breathing clean air with the power of UVC technology. Simple to use and easy to install, this system mounts onto your existing forced air furnace.

10 YEAR WARRANTY

Effectively Purifies up to **3500 Sq. Ft.**

PRODUCT SPECIFICATIONS	UVAIR-01
Input Supply Voltage	120-240V/50-60Hz.
Input Supply Frequency	60 Hz
Power (Watts)	36
Primary Amperes	0.55A
Operating Temperature	-5 °C to 75 °C
Operating Relative Humidity	90%
Powerhead Dimensions	5”(w) x 5” (h)
Replacement Lamp	UVAIR-RL1
Lamp Change Reminder	YES
Lamp Out Indicator	YES
Shipping Weight	1.0 kg (2.2 lbs)

PRODUCT FEATURES

Lamps produce no ozone

- Energy efficient electronic ballast
- Safety feature designed to prevent accidental exposure to UVC light
- Built-in lamp replacement indicator (Replace lamp once a year for optimal performance)
- Safely purifies home up to 3500 sq. ft.
- Installs in less than 15 minutes

Compact and easy to install

Provides clean fresh air for the entire home

Kills germs that cause colds and flus

Alleviates allergies and asthma symptoms

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OPTIONAL EQUIPMENT

UV CONCIERGE IoT MODULE

LUMINOR'S INFORMATION MONITORING APPLICATION

Whether you're a homeowner wanting to check the status of your UV system at the cottage, or the Superintendent of a school board monitoring the status of 10 different UV systems installed in your jurisdiction, LUMINOR's **UV Concierge** is your "go-to" solution!

- Integrated WiFi solution* for web, Android, and iOS
- GUI interface matches current UV display for brand recognition
- Easy set-up and login with integrated QR codes
- Data logging capabilities (i.e. UV output over time)
- Safe & protected, cloud-based data management
- Monitor just one system, or ALL the systems that you service
- FCC compliance

CHOOSE YOUR SYSTEM (based on plug type)			
North American (NEMA 1-15) plug	European (CEE 7/7) plug	British (BS 1363) plug	AS/NZS (3112) plug
MOD-APP	MOD-APP-2	MOD-APP-3	MOD-APP-4

DESCRIPTION

- Full system reporting, days remaining, UV output (if applicable) and all major & minor visual indicators
- SMS & email alerts for all major alarm conditions to one user ONLY
- Unlimited (user defined) SMS & email alerts for all major alarm conditions to 10 different users
- Full data tracking for UV output over time

* WiFi access point required close to UV system

UV SYSTEMS JUST GOT A WHOLE LOT SMARTER.

To order, please call **519-837-3800** or email us at **sales@luminoruv.com**

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OPTIONAL EQUIPMENT

DEALER PORTAL MODULE

EVERYTHING IN ONE PLACE

With the optional Dealer Module, you can now monitor ALL the UV systems that you service and get real-time reporting on system status. You'll know what systems are in immediate need of service, and what systems are in need of pending service. With the ability to sort this information under a variety of parameters, this Dealer Module is basically a self-contained Business Platform.

Fully customizable for your specific business, LUMINOR's **Dealer Portal** is a business unto itself.

FREE

Contact factory for details

DESCRIPTION
This is a subscription based service based on the number of users that are under your "Dealer Umbrella". Each user is classified as an installed unit with an installed IoT module (whether currently online or not). All fees are in USD and represent a monthly subscription service allowing you to see all the installed units under your umbrella and their respective system status. This portal allows you to search under numerous conditions to narrow down potential trouble spots and to plan a service route. Customizable software allows you to receive as many, or as few, SMS/email messages from these installed systems sent to up to 10 different mobile numbers or email addresses.

THIS IS THE ONLY PRODUCT OF ITS KIND IN THE UV SPACE. IT DOES NOT GET ANY SIMPLER THAN THIS!

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OPTIONAL EQUIPMENT

SHERPA: WIRELESS MONITORING MODULE

ENABLE WIRELESS CAPABILITIES

SHERPA module installs on all **BLACKCOMB 5.1** or **BLACKCOMB 6.1** systems and allows for remote monitoring of all major and minor alarms that take place on the main UV system. Simply place this small device near a faucet (and power source) for added security. Three LED's (good, caution and alarm) visually display system functionality from up to 150' (46m) away.

An additional blue LED will advise you of a lost wireless connection between the SHERPA and the main unit. System comes with the transmitter and the receiver. One transmitter can work with up to 5 Sherpa receivers. Power is supplied through the included power adaptor (voltage specific).

FCC and Industry Canada approved.

MODEL	ELECTRICAL (FITS)	SHIPPING WEIGHT
MOD-SHERPA	North American (Nema 1-15), plug	0.2 kg. (0.5 lbs.)
MOD-SHERPA2	European CEE 7/7 plug	0.2 kg. (0.5 lbs.)
MOD-SHERPA3	British BS 1363 plug	0.2 kg. (0.5 lbs.)
MOD-SHERPA4	Australian AS/NZS 3112 plug	0.2 kg. (0.5 lbs.)
Additional SHERPA receivers (to be added to an existing SHERPA system, up to 5 maximum per transmitter)		
MOD-SHERPA-NT	North American (Nema 1-15), plug	0.2 kg. (0.5 lbs.)
SHERPA receiver ONLY, with applicable power adaptor		
MOD-SHERPA2-NT	European CEE 7/7 plug	0.2 kg. (0.5 lbs.)
SHERPA receiver ONLY, with applicable power adaptor		
MOD-SHERPA3-NT	British BS 1363 plug	0.2 kg. (0.5 lbs.)
SHERPA receiver ONLY, with applicable power adaptor		
MOD-SHERPA4-NT	Australian AS/NZS 3112 plug	0.2 kg. (0.5 lbs.)
SHERPA receiver ONLY, with applicable power adaptor		

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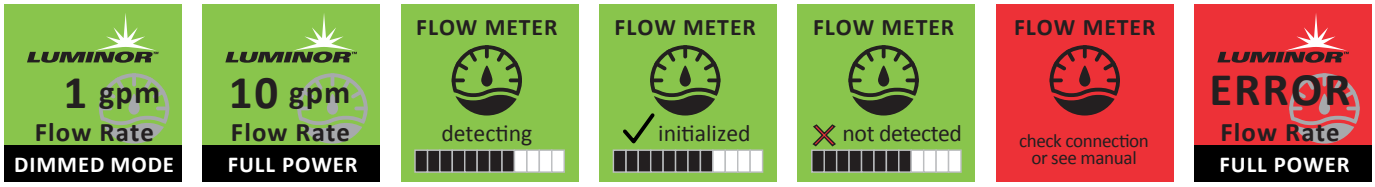
OPTIONAL EQUIPMENT

ULTRASONIC FLOW METER MODULE / POWER DIMMING

LUMINOR's **ULTRASONIC FLOW METER** provides accurate, real-time flow monitoring using a technology that provides failsafe operation. When the system senses "no-flow" or "low-flow" conditions, a signal is sent to the main controller and automatically reduces the power output to the UV lamp, thereby reducing the overall power consumption resulting in energy savings, reduced quartz sleeve fouling and cooler operating temperatures.

Competitive systems using mechanical technology are not only inaccurate in their flow measurements, but have no way to warn the user, and more importantly bring the system back to full power in the event of a mechanical failure to their device. This is NOT a possibility with LUMINOR's device.

Sample screen set for flow meter operation



MODEL	DESCRIPTION	SHIPPING WEIGHT
LFM-0.5	**1/2"** flow meter, fits all 5.1 and 6.1 series units, comes with 1/2" brass threaded connections, composite body	0.2 kg. (0.5 lbs.)
LFM-0.75	**3/4"** flow meter, fits all 5.1 and 6.1 series units, comes with 3/4" brass threaded connections, composite body	0.2 kg. (0.5 lbs.)
LFM-1.0	**1"** flow meter, fits all 5.1 and 6.1 series units, comes with 1.0" brass threaded connections, brass body	0.2 kg. (0.5 lbs.)
LFM-1.5	**1 1/2"** flow meter, fits all 5.1 and 6.1 series units, comes with 1 1/2" brass threaded connections, brass body	0.2 kg. (0.5 lbs.)
European, CEE 7/7, "2" suffix (i.e. **LFM-0.5-2**) British Standard, BS 1363, "3" suffix (i.e. **LFM-0.5-3**) Australian/New Zealand, AS/NZ 3112, "4" suffix (i.e. **LFM-0.5-4**)		
SOLENOID CONNECTION MODULE		
MOD-SOL1	Install a **NORMALLY CLOSED** line voltage solenoid valve (not supplied) into this junction box. Connect the power and the supplied lead to the controller. Please note that when this device is connected to a "5.1" system (without the UV sensor module), then the solenoid will close on a lamp failure mode only. When used on a "6.1" system, the solenoid will close when the UV level drops below 50%. Also note that in cases where emergency use of untreated water is required, the module can be placed into a manual override mode allowing for the flow of water in an alarm condition. North American NEMA 5/15 plug.	0.5 kg. (1.5 lbs.)
For **230V/50-60 Hz. With European CEE 7/7 plug,** order MOD-SOL2 For **230V/50-60 Hz. With British Standard BS 1363 plug,** order MOD-SOL3 For **230V/50-60 Hz. Australian/New Zealand AS/NZ 3112 plug,** order MOD-SOL4		

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OPTIONAL EQUIPMENT

MODEL	IMAGE	DESCRIPTION	ELECTRICAL (FITS)	SHIPPING WEIGHT
UV SENSOR MODULE				
RS-B2.5		The UV sensor module allows for a UV sensor upgrade to all **BLACKCOMB 5.1** systems (or replacement on all **BLACKCOMB 6.1** systems). All **BLACKCOMB 5.1** systems come supplied with a built-in expandability port. Simply remove the Teflon glow plug from the port and affix the UV sensor module. Plug the sensor into the IEP (infinite expandability port) on the controller and restart the system and your system will now monitor the UV intensity given off by the system.	Fits LB6-021, LB6-031, LB6-061, LB6-101, LB6-151, all variants & NSF Class B	0.2 kg. (0.5 lbs.)
RS-B3.5			For all **BLACKCOMB 6.1** residential products with a 3 ½" diameter chamber (**LB6-201**, and all 230V models) and all 8gpm rack system variants	
RSHO-B3.5			For all **BLACKCOMB-HO 6.1** products (LBH6-051, LBH6-101, LBH6-151, LBH6-251, LBH6-401 and all 230V models), NSF Class B and 15gpm rack system variants	0.2 kg. (0.5 lbs.)
RS-B2.5V			Fits all NSF Class A VALIDATED **BLACKCOMB** systems	0.2 kg. (0.5 lbs.)
RSHO-B3.5V			Fits all NSF Class A VALIDATED **BLACKCOMB**-HO systems	0.2 kg. (0.5 lbs.)
REMOTE ALARM MODULE				
MOD-RAM		This integral control module allows for a remote connection on all **5.1 and 6.1 BLACKCOMB** products. This device is a "dry (volt free) contact" allowing for the remote installation of alarms, lights, PLC input, data logger, flow control, etc. Simply plug the supplied cable into the IEP (infinite expandability port) on the controller (or daisy chain to any other module used in the system). Three screw terminals (NO, NC & common) are supplied to connect the wire that leads to the receiving end of this dry contact. As the distance required is unknown, no wire is supplied with this system, however 16-22 AWG is required.		0.2 kg. (0.5 lbs.)
4-20mA CONNECTION MODULE				
MOD-420		This integral control module allows for a 4-20 mA connection on all **BLACKCOMB 5.1/6.1** products. This device will allow for a 4-20mA signal transfer of the UV output to a remote device such as a data logger or computer. Simply plug the supplied cable into the "IEP" port on the UV sensor module (or daisy chain to any other module used in the system). Two screw terminals are supplied to connect the wire that leads to the receiving end of the signal. As the distance required is unknown, no wire is supplied with this system, however 16-22 AWG is required.		0.2 kg. (0.5 lbs.)
EMULATION MODULE				
MOD-EMU		This module is a perfect companion for a sales call or trade show. Used on all **BLACKCOMB 5.1, BLACKCOMB-HO 5.1, BLACKCOMB 6.1 and BLACKCOMB-HO 6.1** products, this device will emulate both the UV output and Lamp Counter on the BLACKCOMB controller. Additionally, alarm status for sensor, solenoid, 4-20 and remote alarm modules as well as lamp failure can easily be shown via the emulator. Simply plug the emulator into the IEP (infinite expandability port) on the controller, install lamp key and restart the system.		0.2 kg. (0.5 lbs.)

To order, please call **519-837-3800** or email us at **sales@luminoruv.com**

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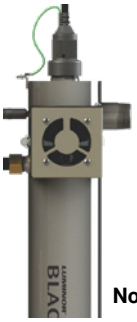
OPTIONAL EQUIPMENT

MODEL	IMAGE	DESCRIPTION	ELECTRICAL (FITS)	SHIPPING WEIGHT
MODULE SPLITTER				
MOD-SPLITTER		This module helps organize all the modules connected to the **BLACKCOMB 5.1/6.1** systems. Up to 3 modules, including sensors, can plug into the MOD-SPLITTER at once. Managing modules becomes easier as they are all plugged into one, central location.		0.2 kg. (0.5 lbs.)
SPLASH GUARD				
310211		The splash cover helps protect all BLACKCOMB controllers from water and other liquids that may splash or drip onto them during operation. It also shields controllers from dust and debris when installed in basements and other dusty or dirty locations.		0.5 kg. (1.1 lbs.)
TEMPERATURE MANAGEMENT (COOLING FAN)				
	 **Note:** System not included	The "LUMI-cool™" fan package is specifically designed to reduce the temperature of water passing through the UV system. The package is engineered to a combination of mechanics and convection to significantly reduce the water temperature. This fan package is specifically designed for use on the **BLACKCOMB HO** UV disinfection systems. The fan is powered independently from the UV system and is designed to run continuously. The quiet, long-life fan is powered by a compact modular power adapter that operates from 90-264V (47-63Hz.) LUMI-cool		
130014		**BLACKCOMB** fan package, fits 3 ½" chambers, includes fan, power source and clamp	North American NEMA 5/15 plug	1.0 kg. (2.2 lbs.)
130015		**BLACKCOMB** fan package, fits 3 ½" chambers, includes fan, power source and clamp	European CEE 7/7 plug	1.0 kg. (2.2 lbs.)
130016		**BLACKCOMB** fan package, fits 3 ½" chambers, includes fan, power source and clamp	British Standard BS 1363 plug	1.0 kg. (2.2 lbs.)
130017		**BLACKCOMB** fan package, fits 3 ½" chambers, includes fan, power source and clamp	Australian/NZ AS/NZS 3112 plug	1.0 kg. (2.2 lbs.)
TRV, TEMPERATURE MANAGEMENT (DUMP VALVE)				
130031		This relief valve allows for a small amount of water to be physically released (dumped) from the UV unit to allow for cooling of the water. This is a fully automatic process that dumps water when the water inside the UV reactor reaches a preset temperature. This valve can be used in applications of extended "no flow" conditions, or when the temperature of the treated water is of a critical nature. The system comes complete with 10' of drain line.	½" FNPT	1.0 kg. (1.4 lbs.)
130032			¾" FNPT	
130033			1" FNPT	
130034			1 ½" FNPT	

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LUMINOR ENVIRONMENTAL

LUMINOR's EXCLUSIVE

CUSTOMIZED DEALER PROGRAMMING MODULES

FREE

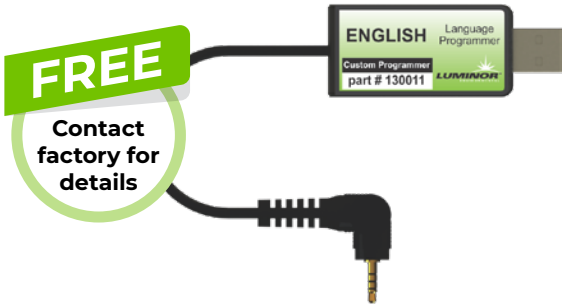
Contact factory for details

This complete programming module created at our factory will customize the screens displayed on LUMINOR branded **BLACKCOMB 5.1** and **6.1** controllers.

This screen can be customized with your unique company information, logo, phone numbers, QR codes, etc. Once the module is created, simply plug the programmer into the IEP (infinite expandability port) on the controller and restart the system. Once installed, your system will be reprogrammed with the individualized QR code screen and fully customized with your unique dealer information & branding. Capturing the annual replacement lamp business has never been easier!

LANGUAGE PROGRAMMING MODULES

These custom programming modules allow for a complete language change to all **BLACKCOMB 5.1**, **BLACKCOMB 6.1**, **BLACKCOMB-HO 5.1** or **BLACKCOMB-HO 6.1** systems. Simply select the module of choice, plug the programmer into the IEP (infinite expandability port) on the controller and restart the system. Approximately 40 seconds later, your system will be reprogrammed into the language of the applicable programming module. For other languages please contact factory.



MODEL	LANGUAGE	SHIPPING WEIGHT
130001	Italian	0.2 kg. (0.5 lbs.)
130002	Russian	
130005	French	
130006	Arabic	
130007	German	
130008	Mandarin	
130009	Portuguese	
130010	Spanish	
130011	English	
130035	Japanese	
130036	Dutch	
130081	Romanian	
130192	Icelandic	
130299	Norwegian	
130305	Swedish	

To order, please call **519-837-3800** or email us at **sales@luminoruv.com**

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REPLACEMENT LAMPS

- Proprietary ceramic lamp base ensures strength & product integrity
- Protected with a proprietary internal coating providing uniform UV output throughout the entire life of the lamp
- Contain less than 15 mg of mercury to meet the U.S. TCLP compliance regulations (typically 70% less than the competition)
- Colour coded and part number-etched with replacement o-ring
- Protected with a full one-year, no-hassle replacement warranty

MODEL	WHERE USED	DIMENSIONS *(Base face to base face)*	LAMP WATTS	SHIPPING WEIGHT
Low pressure (LP) lamps for general disinfection (254 nm output) — GREEN base: 9,000 hour life				
RL-210	LB4-021, LB5-021, LB6-021 and all 230V models	8.3" (210 mm)	14	0.2 kg. (0.5 lbs.)
RL-210-12PK				
RL-210-30BK				
RL-290	LB4-031, LB5-031, LB6-031 and all 230V models	11.4" (290mm)	15	0.2 kg. (0.5 lbs.)
RL-290-12PK				
RL-290-30BK				
RL-420	For all rack-mount, 8 gpm standard-output systems	16.5" (420mm)	20	0.2 kg. (0.5 lbs.)
RL-420-12PK				
RL-420-30BK				
RL-470	LB4-061, LB5-061, LB6-061 and all 230V models	18.5" (470mm)	22	0.2 kg. (0.5 lbs.)
RL-470-12PK				
RL-470-30BK				
RL-820	LB4-101, LB5-101, LB6-101 and all 230V models	32.3" (820mm)	39	0.2 kg. (0.5 lbs.)
RL-820-12PK				
RL-820-30BK				
RL-850	LB4-201, LB5-201, LB6-201 and all 230V models	33.5" (850mm)	42	0.2 kg. (0.5 lbs.)
RL-850-12PK				
RL-850-30BK				
RL-999	LB4-151, LB5-151, LB6-151 and all 230V models	39.4" (999mm)	50	0.2 kg. (0.5 lbs.)
RL-999-12PK				
RL-999-30BK				
Low pressure, high-output (LP) lamps for general disinfection (254 nm output) — BLUE base: 10,000 hour life				
RL-210HO	LBH4-051, LBH5-051, LBH6-051 and all 230V models	8.3" (210mm)	18	0.2 kg. (0.5 lbs.)
RL-210HO-12PK				
RL-210HO-30BK				
RL-330HO	LBH4-101, LBH5-101, LBH6-101 and all 230V models	13.0" (330mm)	34	0.2 kg. (0.5 lbs.)
RL-330HO-12PK				
RL-330HO-30BK				
RL-420HO	LBH4-151, LBH5-151, LBH6-151 and all 230V models and all rack-mount, 15 gpm high-output systems	16.5" (420mm)	45	0.2 kg. (0.5 lbs.)
RL-420HO-12PK				
RL-420HO-30BK				
RL-600HO	LBH4-251, LBH5-251, LBH6-251 and all 230V models	23.6" (600mm)	67	0.2 kg. (0.5 lbs.)
RL-600HO-12PK				
RL-600HO-30BK				
RL-950HO	LBH4-401, LBH5-401, LBH6-401 and all 230V models	37.4" (950mm)	101	0.2 kg. (0.5 lbs.)
RL-950HO-12PK				
RL-950HO-30BK				

*12 Packs now come in overpack. *30 Bulk Packs do not come individually packaged
Please Note: ALL LUMINOR lamps will come with LUMINOR's LIGHTLOCK™ proprietary encrypted lamp key technology. For all 4.1 systems and systems manufactured without this feature (all systems sold prior to 2017), simply discard the lamp key as it is not needed. On ALL systems where this feature is active, **THE LAMP KEY IS AN INTEGRAL COMPONENT AND THE SYSTEM WILL NOT FUNCTION WITHOUT IT**.

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LUMINOR ENVIRONMENTAL

LUMINOR BLACKCOMB

REPLACEMENT LAMPS (continued)

MODEL	WHERE USED	DIMENSIONS *(Base face to base face)*	LAMP WATTS	SHIPPING WEIGHT
Low pressure, high-output (LP-HO) lamps for TOC reduction disinfection (185 nm output)....YELLOW base, 10,000 hour life				
RL-420HO-TOC	LBH4-151-TOC, LBH5-151-TOC, LBH6-151-TOC, and all 230V models	16.5" (420mm)	45	0.2 kg. (0.5 lbs.)
RL-420HO-TOC-12PK				
RL-420HO-TOC-30BK				
RL-600HO-TOC	LBH4-251-TOC, LBH5-251-TOC, LBH6-251-TOC, and all 230V models	23.6" (600mm)	67	0.2 kg. (0.5 lbs.)
RL-600HO-TOC-12PK				
RL-600HO-TOC-30BK				
RL-950HO-TOC	LBH4-401-TOC, LBH5-401-TOC, LBH6-401-TOC, and all 230V models	37.4" (950mm)	101	0.2 kg. (0.5 lbs.)
RL-950HO-TOC-12PK				
RL-950HO-TOC-30BK				
Low pressure, high-output (LP-HO) lamps for specialty HOT WATER disinfection (185 nm output)....RED base, 10,000 hour life				
RL-330HW	LBH4-101-HW, LBH5-101-HW, LBH6-101-HW, and all 230V models	13.0" (330mm)	34	0.2 kg. (0.5 lbs.)
RL-330HW-12PK				
RL-330HW-30BK				
RL-420HW	LBH4-151-HW, LBH5-151-HW, LBH6-151-HW, and all 230V models	16.5" (420mm)	45	0.2 kg. (0.5 lbs.)
RL-420HW-12PK				
RL-420HW-30BK				
RL-600HW	LBH4-251-HW, LBH5-251-HW, LBH6-251-HW, and all 230V models	23.6" (600mm)	67	0.2 kg. (0.5 lbs.)
RL-600HW-12PK				
RL-600HW-30BK				
RL-950HW	LBH4-401-HW, LBH5-401-HW, LBH6-401-HW, and all 230V models	37.4" (950mm)	101	0.2 kg. (0.5 lbs.)
RL-950HW-12PK				
RL-950HW-30BK				

REPLACEMENT QUARTZ SLEEVES

- All LUMINOR sleeves are manufactured with pure GE214 quartz (or equivalent)
- All LUMINOR sleeves have fire polished ends to eliminate stress cracking
- All LUMINOR sleeves are dimensionally marked for easy field identification
- All LUMINOR sleeves ship with free replacement o-rings

MODEL	WHERE USED	DIMENSIONS *(Base face to base face)*	SHIPPING WEIGHT
RQ-210	LB4-021, LB5-021, LB6-021, LBH4-051, LBH5-051, LBH6-051 and all variants	256mm	0.2 kg. (0.5 lbs.)
RQ-210-12PK			
RQ-290	LB4-031, LB5-031, LB6-031 and all variants	336mm	0.2 kg. (0.5 lbs.)
RQ-290-12PK			
RQ-330	LBH4-101, LBH5-101, LBH6-101 and all variants	376mm	0.2 kg. (0.5 lbs.)
RQ-330-12PK			
RQ-420	LBH4-151, LBH5-151, LBH6-151 and all variants	466mm	0.2 kg. (0.5 lbs.)
RQ-420-12PK			
RQ-470	LB4-061, LB5-061, LB6-061 and all variants	516mm	0.2 kg. (0.5 lbs.)
RQ-470-12PK			
RQ-600	LBH4-251, LBH5-251 and LBH6-251 and all variants	646mm	0.2 kg. (0.5 lbs.)
RQ-600-12PK			
RQ-820	LB4-101, LB5-101, LB6-101 and all variants	866mm	0.2 kg. (0.5 lbs.)
RQ-820-12PK			

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REPLACEMENT QUARTZ SLEEVES (continued)

MODEL	WHERE USED	DIMENSIONS *(Base face to base face)*	SHIPPING WEIGHT
RQ-850	LB4-201, LB5-201, LB6-201 and all variants	900mm	0.2 kg. (0.5 lbs.)
RQ-850-12PK			
RQ-950	LBH4-401, LBH5-401 and LBH6-401 and all variants	996mm	0.2 kg. (0.5 lbs.)
RQ-950-12PK			
RQ-999	LB4-151, LB5-151 and LB6-151 and all variants	1046mm	0.2 kg. (0.5 lbs.)
RQ-999-12PK			

LAMP / SLEEVE COMBO

MODEL	WHERE USED	DIMENSIONS (Base face to base face)		LAMP WATTS	SHIPPING WEIGHT
		LAMP	QUARTZ SLEEVE		
RLQ-210	For LB4-021, LB5-021 & LB6-021 series, includes RL-210 & RQ-210	8.3" (210 mm)	256mm	14	0.5 kg. (1.0 lb.)
RLQ-290	For LB4-031, LB5-031 & LB6-031 series, includes RL-290 & RQ-290	11.4" (290mm)	336mm	15	0.5 kg. (1.0 lb.)
RLQ-420	For RL-420 & RQ-420 and all rack-mount, 8 gpm standard-output systems	16.5" (420mm)	466mm	20	0.5 kg. (1.0 lb.)
RLQ-470	For LB4-061, LB5-061 & LB6-061 series, includes RL-470 & RQ-470	18.5" (470mm)	516mm	22	0.5 kg. (1.0 lb.)
RLQ-820	For LB4-101, LB5-101 & LB6-101 series, includes RL-820 & RQ-820	32.3" (820mm)	866mm	39	0.5 kg. (1.0 lb.)
RLQ-850	For LB4-201, LB5-201 & LB6-201 series, includes RL-850 & RQ-850	33.5" (850mm)	900mm	42	0.5 kg. (1.0 lb.)
RLQ-999	For LB4-151, LB5-151 & LB6-151 series, includes RL-999 & RQ-999	39.4" (1000mm)	1046mm	50	0.5 kg. (1.0 lb.)
RLQ-210HO	For LBH4-051, LBH5-051, LBH6-051 series, includes RL-210HO & RQ-210	8.3" (210mm)	256mm	18	0.5 kg. (1.0 lb.)
RLQ-330HO	For LBH4-101, LBH5-101, LBH6-101 series, includes RL-330HO & RQ-330	13.0" (330mm)	376mm	34	0.5 kg. (1.0 lb.)
RLQ-420HO	For LBH4-151, LBH5-151, LBH6-151 series, includes RL-420HO & RQ-420 and all rack-mount, 15 gpm high-output systems	16.5" (420mm)	466mm	45	0.5 kg. (1.0 lb.)
RLQ-600HO	For LBH4-251, LBH5-251, LB6-251 series, includes RL-600HO & RQ-600	23.6" (600mm)	646mm	67	0.5 kg. (1.0 lb.)
RLQ-950HO	For LBH4-401, LBH5-401, LBH6-401 series, includes RL-950HO & RQ-950	37.4" (950mm)	996mm	101	0.5 kg. (1.0 lb.)

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LUMINOR ENVIRONMENTAL

LUMINOR BLACKCOMB

REPLACEMENT SENSORS

- 254 nm Teflon® based UV sensor with 4-20 mA output capabilities
- Free floating" design eliminates cable twisting as in competitive systems
- Keyed design for optimum sensor positioning
- Integral IEP (infinite expandability port) for module interfacing
- Watertight design with full one-year, "no-hassle" warranty

MODEL	IMAGE	DESCRIPTION	SHIPPING WEIGHT
UV SENSOR MODULE			
RS-B2.5		For all **BLACKCOMB 6.1** residential products with a 2 ½" diameter chamber (**LB6-021, LB6-031, LB6-061, LB6-101, LB6-151**, and all 12V, 230V models & NSF Class B)	0.2 kg. (0.5 lbs.)
RS-B3.5		For all **BLACKCOMB 6.1** residential products with a 3 ½" diameter chamber (**LB6-201**, and all 230V models) and all 8gpm rack system variants	0.2 kg. (0.5 lbs.)
RSHO-B3.5		For all **BLACKCOMB-HO 6.1** products (LBH6-051, LBH6-101, LBH6-151, LBH6-251, LBH6-401 and all 230V models), NSF Class B and 15gpm rack system variants	0.2 kg. (0.5 lbs.)
RSHO-B3.5-50		For all **BLACKCOMB-HO 6.1** "LOW UVT" products	0.2 kg. (0.5 lbs.)
RS-B2.5V		For all **BLACKCOMB 6.1 NSF Class A VALIDATED** products (**LB6-02XA, LB6-03XA, LB6-06XA, LB6-10XA, LB6-15XA**)	0.2 kg. (0.5 lbs.)
RSHO-B3.5V		For all **NSF Class A VALIDATED BLACKCOMB-HO 6.1** products (**LBH6-05XA, LBH6-10XA, LBH6-15XA, LBH6-25XA, LBH6-40XA**)	0.2 kg. (0.5 lbs.)

POOL UV SYSTEMS (legacy)

- Built in lamp monitor with both audible and visual indication of lamp life
- 316L stainless steel chamber for maximum reflective disinfection
- Drain port for easy winterization
- For vertical or horizontal installation

IMAGE	FLOW RATE	MODEL	ELECTRICAL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
	42 GPM (159 lpm) (9.5 m3/hr.)	**LBH4-PS**	90-265V/ 50-60Hz.	1 ½" MNPT	RL-600HO	RQ-600	7.9 kg. (17.5 lbs.)
	70 GPM (265 lpm) (15.9 m3/hr.)	**LBH4-PL**	90-265V/ 50-60Hz.	2" MNPT	RL-950HO	RQ-950	10.0 kg. (22.1 lbs.)

To order, please call **519-837-3800** or email us at **sales@luminoruv.com**

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BALLASTS / CONTROLLERS

- BLACKCOMB controllers feature a splash proof case and fully potted ballast to enhance heat dissipation and protect from possible water damage issues
- BLACKCOMB controllers feature an integral IEP (infinite expandability port) for module interfacing (RC-B56 & RCHO-56 series only)
- BLACKCOMB controllers come with integral mounting feet
- BLACKCOMB controllers feature a 3-year manufacturers warranty

MODEL	IMAGE	PLUG	ELECTRICAL	DESCRIPTION	SHIPPING WEIGHT
RC-B4.0V		Terminal Blocks	90-265V/ 50-60Hz.	Fits Vending Units **LBV-021, LBV-031, LBV-061**	0.75 kg. (1.5 lbs.)
RC-B4.01		North American NEMA 5/15	90-265V/ 50-60Hz.	Fits North American **BLACKCOMB 4.1 (LB4-021, LB4-031, LB4-061, LB4-101, LB4-151, LB4-201)**	0.75 kg. (1.5 lbs.)
RC-B4.02		European CEE 7/7		Fits European **BLACKCOMB 4.1 (LB4-022, LB4-032, LB4-062, LB4-102, LB4-152, LB4-202)**	
RC-B4.03		British Standard BS 1363		Fits British **BLACKCOMB 4.1 (LB4-023, LB4-033, LB4-063, LB4-103, LB4-153, LB4-203)**	
RC-B4.04		Australian AS/NZS 3112		Fits Australian/New Zealand **BLACKCOMB 4.1 (LB4-024, LB4-034, LB4-064, LB4-104, LB4-154, LB4-204)**	
RC-B56.01		North American NEMA 5/15	90-265V/ 50-60Hz.	Fits North American **BLACKCOMB 5.1 and BLACKCOMB 6.1 (LB5/6-021, LB5/6-031, LB5/6-061, LB5/6-101, LB5/6-151, LB5/6-201)**	1.0 kg. (2.0 lbs.)
RC-B56.02		European CEE 7/7		Fits European **BLACKCOMB 5.1 and BLACKCOMB 6.1 (LB5/6-022, LB5/6-032, LB5/6-062, LB5/6-102, LB5/6-152, LB5/6-202)**	
RC-B56.03		British Standard BS 1363		Fits British **BLACKCOMB 5.1 and BLACKCOMB 6.1 (LB5/6-023, LB5/6-033, LB5/6-063, LB5/6-103, LB5/6-153, LB5/6-203)**	
RC-B56.04		Australian AS/NZS 3112		Fits Australian/New Zealand **BLACKCOMB 5.1 and BLACKCOMB 6.1 (LB5/6-024, LB5/6-034, LB5/6-064, LB5/6-104, LB5/6-154, LB5/6-204)**	
RC-B56.12V		bare leads	12 VDC	Fits 12 VDC **BLACKCOMB 5.1 and BLACKCOMB 6.1 (LB5/6-02-12V, LB5/6-03-12V, LB5/6-06-12V)**	

Contact factory for further information on **alternate language availability** on BLACKCOMB controllers or see Page 17

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LUMINOR ENVIRONMENTAL

LUMINOR BLACKCOMB

BALLASTS / CONTROLLERS (continued)

MODEL	IMAGE	PLUG	ELECTRICAL	DESCRIPTION	SHIPPING WEIGHT
RCHO-4.12		IEC (sold separately)	90-265V/ 50-60Hz.	Fits **BLACKCOMB-HO 4.1** products, IEC power cords sold separately (**LBH4-051, LBH4-101, LBH4-151, LBH4-251 and LBH4-401** and all other variants)	1.5 kg. (3.0 lbs.)
RCHO-56.12		IEC (sold separately)	90-265V/ 50-60Hz.	Fits **BLACKCOMB-HO 5.1** and **BLACKCOMB-HO 6.1** products, IEC power cords sold separately (**LBH5-051, LBH5-101, LBH5-151, LBH5-251, LBH5-401, LBH6-051, LBH6-101, LBH6-151, LBH6-251, LBH6-401** and all variants)	1.5 kg. (3.0 lbs.)

MISCELLANEOUS PARTS		
300038	O-ring for **BLACKCOMB** gland nuts (320006)	0.5 kg./ 1.0 lb.
310120	O-ring nut for UV sensor on all **LUMINOR** systems	
300070	O-ring for NSF validated systems	
320006	Gland nut for all **BLACKCOMB** systems	
300016	Sensor plug kit, includes Teflon plug (310026), o-ring (310120) & nut (390007)	
MOD-SPARE	“Care Package”, plugs, o-rings, springs, clamps, manuals, ground screw	
510007	Parts kit for all 2.5” reactors (nut, o-ring, spring & clamps)	
510008	Parts kit for all 3.5” reactors (nut, o-ring, spring & clamps)	
510029	Parts kit for all 2.5” NSF reactors (nut, o-ring, spring & clamps)	
510030	Parts kit for all 3.5” NSF reactors (nut, o-ring, spring & clamps)	
510035	RACK mount parts kit	
310039	Quartz sleeve spring for all **LUMINOR** systems	
260004	IEC power cord, 3-wire **North American**, Nema 5-15	
260005	IEC power cord, 3-wire **European**, CEE 7/7	
260006	IEC power cord, 3-wire **Australian/New Zealand**, AS/NZS 3112	
260008	IEC power cord, 3-wire **British Standard**, BS 1363	
260009	IEC power cord, 3-wire **North American** 230 volt, Nema 6-15	
12V-SUPPLY	12 volt power supply (wall wart) for all 12 volt **BLACKCOMB** systems	
390025	Plastic Cell Clamp, 2.5” (sold individually)	
390071	Plastic Cell Clamp, 3.5” (sold individually)	
310026	Teflon sensor plug	
390007	Brass nut	
LP-2	Pressure Gauge, set of 2	

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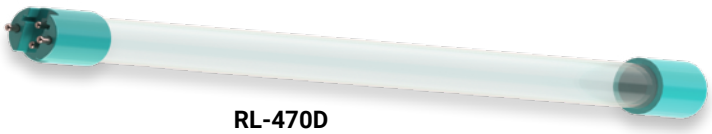
MARKETING MATERIAL

130024

LB5-061DISP

LB5-061-PLQMNT



RL-470D

MODEL	DESCRIPTION
130024	Plaque-mounted (24” x 36”) “DEALER” poster
LB5-061DISP	LB5-061 “showroom” display, full working unit with laser-cut design
LB5-061-PLQMNT	Showroom package, includes plaque-mount poster and system
RL-470D	Display lamp (non-UV producing), for LB5-061DISP

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GLACIER UV LED

THE EVOLUTION OF UV DISINFECTION

These compact UVC LED modules provide **99.99% pathogen reduction** and have a global reach with a myriad of applications ranging from residential water treatment, water dispensers, appliance, food service, RV, marine, medical, disaster relief and many more.

Private label opportunities are also available.

Everything is included in this compact, all-in-one module:

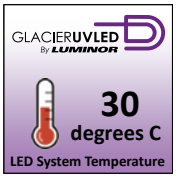
- Multi-State Status LED indicating power, flow, LED life and overtemp/ fail alarms
- Automatic detection of water flow provides on-demand disinfection, low energy use & prevents heat build-up
- 5,000 hrs LED life

Everything is included in this compact, all-in-one module:

- Proven colour screen interface as found on other LUMINOR systems
- Automatic detection of water flow provides on-demand disinfection, low energy use & prevents heat build-up
- Includes IEP port for expansion modules
- 5,000 hrs LED life

MODEL		GUV-4S	GUV-5S
SYSTEM		4.9 lpm UVC LED System	4.9 lpm UVC LED System
APPLICATION	10mJ/cm² @ 95% UVT	1.5 GPM (5.6 lpm)	1.5 GPM (5.6 lpm)
	16mJ/cm² @ 95% UVT	1.3 GPM (4.9 lpm)	1.3 GPM (4.9 lpm)
	30mJ/cm² @ 95% UVT	0.6 GPM (2.4 lpm)	0.6 GPM (2.4 lpm)
	40mJ/cm² @ 95% UVT	0.4 GPM (1.3 lpm)	0.4 GPM (1.3 lpm)
Input Voltage		12VDC	
ELECTRICAL CONNECTION		Standard 12VDC barrel connector, 2.1 x 5.5 mm	
OPERATING WATER TEMP.		0-45° C (32-113° F)	
SHIPPING WEIGHT		400 g (14 oz)	

Sample Screens Available on GUV-5S Controller ONLY



NOTE: when ordering applicable power cord, use:
"**1**" for North American
"**2**" for European
"**3**" for British Standard
"**4**" for Australia/New Zealand

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OPTIONAL EQUIPMENT

GLACIER UV LED WATER BOTTLE

Glacier UV LED by LUMINOR offers peace of mind by harnessing the power of UV LED disinfection. This easy to use, environmentally friendly bottle provides on-the-go, safe water without the need for harmful chemicals.

304 stainless steel double wall insulation for both hot + cold

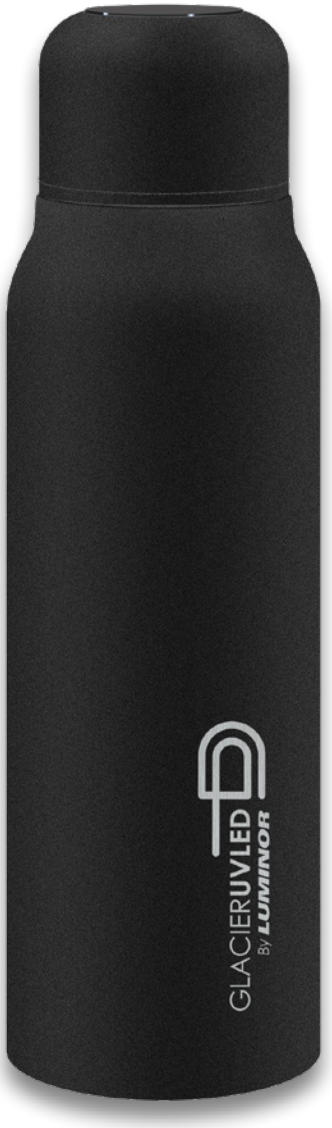
Reusable + Eco-friendly alternative to plastic water bottles

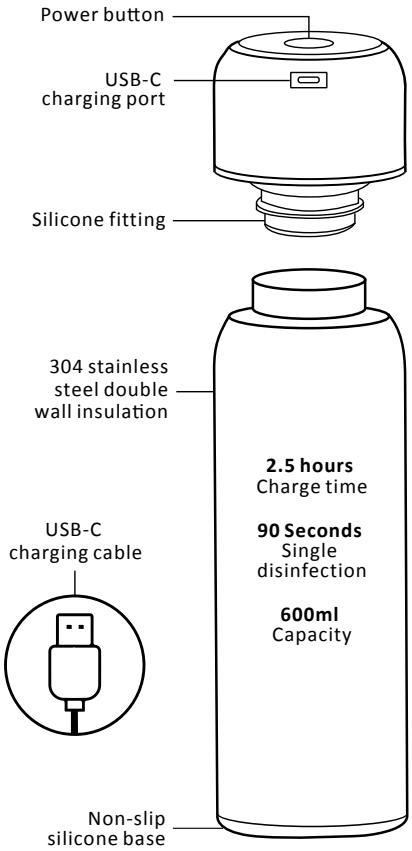
On-the-spot disinfection with manual activation

UV light renders microorganisms 'inactive', prohibiting reproduction

Cleaning cycle mode to keep your bottle smelling fresh + clean

USB-C charging with long lasting battery





MODEL	GUV-B1
Capacity	600 mL
UVC wavelength	275nm
Single disinfection time	90 seconds
Charge time	2.5 hours
SHIPPING WEIGHT	0.4 kg. (0.8 lbs.)
NOTE: Standard discounts DO NOT apply on this product. Contact factory for special NET pricing.	

99.9% EFFECTIVE CONTROL AGAINST WATER CONTAINING BACTERIA & VIRUSES

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LUMINOR™ RAINIER

The RAINIER series of UV disinfection systems offer microbiological protection when required for **commercial/industrial applications.**

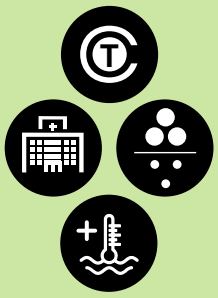
Constructed with highly polished 316L stainless steel reactors and industrial grade enclosures, RAINIER uses proven low pressure amalgam (LP-AM) lamp technology offering stable output in both hot and cold water applications.

LUMINOR™ EVEREST

Commercial, industrial and municipal UV disinfection solutions include a vast number of specialized conditions that require fluid disinfection.

LUMINOR's EVEREST line of disinfection systems are specifically designed and built to handle the most challenging environments.

LIGHT COMMERCIAL (specialty amalgam)



RAINIER 5.0

- Modular control panel with LED display for remaining lamp life, total running hours, audible & visual lamp failure, remote-on and solenoid ready
- 316L stainless steel electropolished reactors with fixed mounting legs
- Built-in sensor port for future upgradeability (includes visual glow plug)
- Low pressure amalgam (LP-AM) coated UV lamps for maximum power density and consistent UV output throughout rated lamp life of 12,000 hours
- Amalgam lamps offer uniform output in both cold and hot water applications
- Flexible vertical or horizontal installation with small installation footprint

RAINIER 6.0

5.0 features plus:

- 254 nm Teflon® based UV sensor with 4-20 mA output and solenoid-ready

IMAGE	FLOW RATE / MODEL				PORTS	SLEEVE
	NORMAL 30mJ @ 95% UVT	HOT WATER 30mJ @ 75% UVT	LOW UVT 30mJ @ 50% UVT	TOC 150mJ @ 98% UVT		
LR6-555	35 GPM (132 lpm)	22 GPM (83 lpm)	14 GPM (53 lpm)	7 GPM (26 lpm)	See page 51 for alternate UV doses/flow rates	
	LR5-355	**LR5-355**	**LR5-355-50**	**LR5-355-TOC**	1½" MNPT	**RQ-500** (1 used)
	LR6-355	**LR6-355**	**LR6-355-50**	**LR6-355-TOC**		
	RL-500A	**RL-500A**	**RL-500A**	**RL-500A-TOC**	Replacement lamps (1 per system)	
	55 GPM (208 lpm)	38 GPM (144 lpm)	23 GPM (87 lpm)	12 GPM (44 lpm)	See page 51 for alternate UV doses/flow rates	
	LR5-555	**LR5-555**	**LR5-555-50**	**LR5-555-TOC**	2" MNPT	**RQ-720** (1 used)
	LR6-555	**LR6-555**	**LR6-555-50**	**LR6-555-TOC**		
	RL-720A	**RL-720A**	**RL-720A**	**RL-720A-TOC**	Replacement lamps (1 per system)	
	85 GPM (322 lpm)	55 GPM (193 lpm)	35 GPM (132 lpm)	17 GPM (64 lpm)	See page 51 for alternate UV doses/flow rates	
	LR5-855	**LR5-855**	**LR5-855-50**	**LR5-855-TOC**	2" MNPT	**RQ-1000** (1 used)
	LR6-855	**LR6-855**	**LR6-855-50**	**LR6-855-TOC**		
	RL-1000A	**RL-1000A**	**RL-1000A**	**RL-1000A-TOC**	Replacement lamps (1 per system)	
LR5-1405	140 GPM (530 lpm)	75 GPM (284 lpm)	39 GPM (148 lpm)	31 GPM (117 lpm)	See page 51 for alternate UV doses/flow rates	
	LR5-1105	**LR5-1105**	**LR5-1105-50**	**LR5-1105-TOC**	2½" MNPT	**RQ-720** (2 used)
	LR6-1105	**LR6-1105**	**LR6-1105-50**	**LR6-1105-TOC**		
	RL-720A	**RL-720A**	**RL-720A**	**RL-720A-TOC**	Replacement lamps (2 per system)	
	180 GPM (681 lpm)	95 GPM (360 lpm)	49 GPM (185 lpm)	40 GPM (151 lpm)	See page 51 for alternate UV doses/flow rates	
	LR5-1405	**LR5-1405**	**LR5-1405-50**	**LR5-1405-TOC**	3" MNPT	RQ-843 **(2 used)**
	LR6-1405	**LR6-1405**	**LR6-1405-50**	**LR6-1405-TOC**		
	RL-843A	**RL-843A**	**RL-843A**	**RL-843A-TOC**	Replacement lamps (2 per system)	
	215 GPM (814 lpm)	115 GPM (435 lpm)	60 GPM (227 lpm)	48 GPM (182 lpm)	See page 51 for alternate UV doses/flow rates	
	LR5-1755	**LR5-1755**	**LR5-1755-50**	**LR5-1755-TOC**	4" MNPT	**RQ-1000** (2 used)
	LR6-1755	**LR6-1755**	**LR6-1755-50**	**LR6-1755-TOC**		
	RL-1000A	**RL-1000A**	**RL-1000A**	**RL-1000A-TOC**	Replacement lamps (2 per system)	

For additional **TEMPERATURE MANAGEMENT PRODUCTS**, please see Page 30

Alternate Power Cord Configurations

Standard Electrical configuration is 230V/50-60Hz., "5" systems with North American NEMA 6/15 IEC power plug

1. For North American, 120V order with "**1**" suffix (i.e. LR5-851)
2. For European, CEE 7/7, 3-wire IEC plug (230V), order with "**2**" suffix (i.e. LR5-852)
3. For British Standard, BS 1363, 3-wire IEC plug (230V), order with "**3**" suffix (i.e. LR5-853)
4. For Australian/New Zealand, AS/NZ 3112, 3-wire IEC plug (230V) order with "**4**" suffix (i.e. LR5-854)

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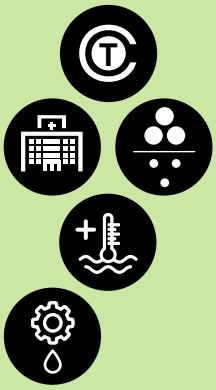
COMMERCIAL / INDUSTRIAL / MUNICIPAL: EVEREST 5.0 / 6.0



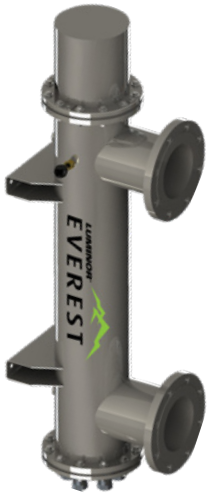
EVEREST 5.0

- Amalgam lamps offer uniform output in both cold and hot water applications
- Modular stainless steel control panel with LCD display for remaining lamp life, total running hours, audible & visual lamp failure, remote-on, dry contacts
- 316L stainless steel reactors with flanged end plate for reactor service, includes drain ports for reactor draining (10 year limited warranty on reactor)
- Designed & manufactured to ASME pressure vessel standards
- Flexible vertical or horizontal installation with small installation footprint
- Low pressure amalgam (LP-AM) coated UV lamps for maximum power density and consistent UV output throughout rated lamp life of 12,000 hours

EVEREST 6.0

5.0 features plus:

- 254 nm Teflon® based UV sensor (user selectable output), with 4-20 mA output and solenoid-ready

IMAGE	FLOW RATE / MODEL				PORTS	SLEEVE
	NORMAL 30mJ @ 95% UVT	**HOT WATER 30mJ @ 75% UVT**	**LOW UVT 30mJ @ 50% UVT**	**TOC 150mJ @ 98% UVT**		
	530 GPM (2013 lpm)	230 GPM (870 lpm)	119 GPM (452 lpm)	122 GPM (462 lpm)	See page 52 for alternate UV doses/flow rates	
	LE5-A42	**LE5-A42**	**LE5-A42-50**	**LE5-A42-TOC**	6" Flange (150lb RF ANSI)	**RQ-K2** (4 used)
	LE6-A42	**LE6-A42**		**LE6-A42-TOC**		
	RL-1000A	**RL-1000A**	**RL-1000A**	**RL-1000A-TOC**	Replacement lamps (4 per system)	
	780 GPM (2957 lpm)	341 GPM (1292 lpm)	179 GPM (679 lpm)	179 GPM (679 lpm)	See page 52 for alternate UV doses/flow rates	
	LE5-A62	**LE5-A62**	**LE5-A62-50**	**LE5-A62-TOC**	6" Flange (150lb RF ANSI)	**RQ-K2** (6 used)
	LE6-A62	**LE6-A62**		**LE6-A62-TOC**		
	RL-1000A	**RL-1000A**	**RL-1000A**	**RL-1000A-TOC**	Replacement lamps (6 per system)	
	915 GPM (3468 lpm)	404 GPM (1530 lpm)	210 GPM (796 lpm)	209 GPM (793 lpm)	See page 52 for alternate UV doses/flow rates	
	LE5-A72	**LE5-A72**	**LE5-A72-50**	**LE5-A72-TOC**	6" Flange (150lb RF ANSI)	**RQ-K2** (7 used)
	LE6-A72	**LE6-A72**		**LE6-A72-TOC**		
	RL-1000A	**RL-1000A**	**RL-1000A**	**RL-1000A-TOC**	Replacement lamps (7 per system)	

NOTE: Electrical on ALL EVEREST units is 230V ±10%/45-65Hz. ONLY (direct wired). As electrical requirements vary from region to region, **ALL EVEREST UNITS ARE QUOTED WITHOUT ANY ELECTRICAL CERTIFICATION.** Clients to provide details on what specific electrical certification may be appropriate for the specific installation, and LUMINOR to quote electrical certification as an adder.

To order, please call **519-837-3800** or email us at **sales@luminoruv.com**

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OPTIONAL EQUIPMENT

MODEL	IMAGE	DESCRIPTION	ELECTRICAL (FITS)	SHIPPING WEIGHT
REMOTE CABLE ASSEMBLY				
210010		Prewired cable package for RAINIER systems, outputs both the dry contact and 4-20mA signals from the controller through 10 m (33') of cable to a remote location.		0.2 kg. (0.5 lbs.)
TEMPERATURE MANAGEMENT (COOLING FAN)				
	Note: Systems not included	The "LUMI-cool™" fan package is specifically designed to reduce the temperature of water passing through the UV system. The package is engineered to a combination of mechanics and convection to significantly reduce the water temperature. This fan package is specifically designed for use on the RAINIER UV disinfection systems. The fan is powered independently from the UV system and is designed to run continuously. Its quiet, long-life fan is powered by a compact modular power adapter with interchangeable AC clips that operates from 90-264V (47-63Hz.) 		
130018		Fan package, 4" for **RAINIER**, fan, power source and clamp	**North American** NEMA 5/15 plug	1.0 kg. (2.2 lbs.)
130019		Fan package, 4" for **RAINIER**, fan, power source and clamp	**European** CEE 7/7 plug	1.0 kg. (2.2 lbs.)
130020		Fan package, 4" for **RAINIER**, fan, power source and clamp	**British Standard** BS 1363 plug	1.0 kg. (2.2 lbs.)
130021		Fan package, 4" for **RAINIER**, fan, power source and clamp	**Australian/NZ** AS/NZS 3112 plug	1.0 kg. (2.2 lbs.)

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REPLACEMENT LAMPS

- Proprietary ceramic lamp base ensures strength & product integrity
- Protected with a proprietary internal coating providing uniform UV output throughout the entire life of the lamp
- Contain less than 10 mg of mercury to meet the U.S. TCLP compliance regulations (typically 70% less than the competition)
- Protected with a full one-year, no-hassle replacement warranty

MODEL	WHERE USED	DIMENSIONS *(Base face to base face)*	LAMP WATTS	SHIPPING WEIGHT
Low pressure, amalgam (LP-AM) lamps for general disinfection (254 nm output) — BLACK base: 12,000 hour life				
RL-500A	LR5(6)-355, LR5(6)-355-HW and all variants	19.7" (500 mm)	104	0.2 kg. (0.5 lbs.)
RL-720A	LR5(6)-555, LR5(6)-1105, LR5(6)-555-HW, LR5(6)-1105-HW and all variants	28.4" (720 mm)	152	
RL-843A	LR5(6)-1405, LR5(6)-1405-HW and all variants	33.2" (843 mm)	172	
RL-1000A	LR5(6)-855, LR5(6)-1755, LR5(6)-855-HW, LR5(6)-1755-HW and all EVEREST and K2 products	39.4" (1000 mm)	207	
Low pressure, amalgam (LP-AM) lamps for TOC reduction (185 nm output) — BLACK base: 12,000 hour life				
RL-500A-TOC	LR5(6)-355-TOC and all variants	19.7" (500 mm)	104	0.2 kg. (0.5 lbs.)
RL-720A-TOC	LR5(6)-555-TOC, LR5(6)-1105-TOC and all variants	28.4" (720 mm)	152	
RL-843A-TOC	LR5(6)-1405-TOC and all variants	33.2" (843 mm)	172	
RL-1000A-TOC	LR5(6)-855-TOC, LR5(6)-1755-TOC, and all EVEREST/K2 TOC products	39.4" (1000 mm)	207	

REPLACEMENT QUARTZ SLEEVES

- All LUMINOR sleeves are manufactured with pure GE214 quartz (or equivalent)
- All LUMINOR sleeves have fire polished ends to eliminate stress cracking
- All LUMINOR sleeves are dimensionally marked for easy field identification
- All LUMINOR sleeves ship with free replacement o-rings

MODEL	WHERE USED	DIMENSIONS (ID x OD X LENGTH, mm)	SHIPPING WEIGHT
RQ-500	LR5(6)-355 and all variants	25 x 285 x 635	0.5 kg. (1.0 lbs.)
RQ-720	LR5(6)-555, LR5(6)-1105 and all variants	25 x 285 x 855	
RQ-843	LR5(6)-1405 and all variants	25 x 285 x 978	
RQ-1000	LR5(6)-855, LR5(6)-1755 and all variants	25 x 285 x 1135	
RQ-K2	All EVEREST and K2 products	25 x 285 x 1200	

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REPLACEMENT SENSORS

- 254 nm Teflon® based UV sensor with 4-20 mA output capabilities
- "Free floating" design eliminates cable twisting as in competitive systems
- Keyed design for optimum sensor positioning
- Watertight design with full one-year, "no-hassle" warranty

MODEL	IMAGE	DESCRIPTION	SHIPPING WEIGHT
RS-RUV		For all **RAINIER 6.0** products (**LR6-355, LR6-855, LR6-1105, LR6-1405, LR6-1755**), and all variants	0.2 kg. (0.5 lbs.)
RS-EUV		For all **EVEREST** commercial/industrial/ municipal products (**LE6-A42, LE6-A62, LE6-A72**), and all variants	0.2 kg. (0.5 lbs.)
RS-KUV		For all **K2** commercial/industrial/ municipal products (**LK6-A22, LK6-A42, LK6-A62**), and all variants	0.2 kg. (0.5 lbs.)

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BALLASTS / CONTROLLERS

MODEL	IMAGE	DESCRIPTION	SHIPPING WEIGHT
RB-R1.2		For all single-lamp *RAINIER 230V* ±10%/45-65Hz. (440W, 2.0A). (LR5/6-355, LR5/6-555, LR5/6-855)	0.5 kg. (1.0 lbs.)
RB-R2.2		For all two lamp **RAINIER** products, **230V** ±10%/45-65Hz. (440W, 2.0A) (**LR5/6-1105, LR5/6-1405, LR5/6-1755**)	0.75 kg. (1.5 lbs.)
RB-R1.12		For all 120V **RAINIER** products. (**LR5/6-351, LR5/6-551, LR5/6-851, LR5/6-1101, LR5/6-1401, LR5/6-1751**)	0.6 kg. (1.3 lbs.)
RB-E1		For all **EVEREST** products, **208-240V** ±10%/45-65Hz. (440W, 2.0A) (**LE5-A42, LE6-A42, LE5-A62, LE6-A62, LE5-A72, LE6-A72**)	0.75 kg. (1.5 lbs.)
RB-K22		For all K2 products, **208-240V** ±10%/45-65Hz. (440W, 2.0A) (**LK5-A22, LK6-A22, LK5-A42, LK6-A42, LK5-A62, LK6-A62**)	1.0 kg. (2.2 lbs.)

NOTE: Control Board powers the display / sensor readings. Ballast drives the lamps.

MISCELLANEOUS PARTS

MODEL	DESCRIPTION	SHIPPING WEIGHT
300046	Gland nut for all **RAINIER** and **EVEREST/K2** systems (open end)	0.5 kg. (1.0 lbs.)
310042	Gland nut for all **RAINIER** and **EVEREST/K2** systems (closed end)	
310043	O-ring for **RAINIER** & **EVEREST/K2** gland nuts (300046/310042)	
310120	O-ring for UV sensor on all **LUMINOR** systems	
300016	Sensor plug kit, includes Teflon plug (310026), o-ring (310120) & nut (390007)	
310206	Quartz sleeve spring for all **RAINIER/EVEREST/K2** systems (2 springs req.)	
260004	IEC power cord, **North American**, Nema 5-15	
260005	IEC power cord, **European**, CEE 7/7	
260006	IEC power cord, **Australian/New Zealand**, AS/NZS 3112	
260008	IEC power cord, **British Standard**, BS 1363	
260009	IEC power cord, **North American** 230 volt, Nema 6-15	

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COMPETITIVE REPLACEMENT SUPPLIES

In addition to UV lamps/sleeves for both Sterilight® and UVMax® (VIQUA®), LUMINOR can also convert your current system to the fully proprietary colour screen LUMINOR technology!

- Conversion kits
- Competitive replacement lamps
- Competitive replacement sleeves
- Competitive replacement ballasts

Sterilight® (VIQUA®)

Sterilight® (VIQUA®)

Compatible Replacement UV Lamp

Sterilight® (VIQUA®)

Conversion Nut (reusable)

UVMax® (VIQUA®)

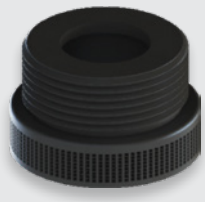
UVMax® (VIQUA®)

Compatible Replacement UV Lamp

UVMax® (VIQUA®)

Conversion Nut (reusable)

UPGRADE-IT (Sterilight®)



Purchasing the following Conversion Kits will allow you to use LUMINOR's BLACKCOMB colour screen controller along with LUMINOR's true proprietary UV lamps and quartz sleeves. Conversion kit includes an adapter (one reusable adapter per kit), controller, o-ring, lamp and quartz sleeve. You keep your existing Sterilight reactor (stainless housing) with no need for any additional or redundant plumbing!

WHY CHOOSE THIS OPTION?

- No cost for plumbing in a new reactor
- BLACKCOMB colour screen controller (fully customizable as an option)
- Full component warranty (3-years on controller, 1-year on lamps)
- True proprietary UV lamps

Sterilight® MODEL	LUMINOR PART #	CONVERSION KIT INCLUDES					ELECTRICAL	SHIPPING WEIGHT
		CONTROLLER	LAMP	SLEEVE	ADAPTER	GLAND NUT		
STERILIGHT® CONVERSION KITS								
S1Q-PA	**150000**	RC-B4.01	RL-290	350073	310066	320006	90-265V/ 50-60Hz.	2.3 kg. (5 lbs.)
S2Q-PA	**150002**	RC-B4.01	RL-290	350074	310066	320006	90-265V/ 50-60Hz.	
S5Q-PA	**150004**	RC-B4.01	RL-470	350041	310066	320006	90-265V/ 50-60Hz.	
S8Q-PA	**150006**	RC-B4.01	RL-820	350042	310066	320006	90-265V/ 50-60Hz.	
S12Q-PA	**150008**	RC-B4.01	RL-850	350043	310066	320006	90-265V/ 50-60Hz.	

UPGRADE-IT (Trojan UVMax®)

Purchasing the following Conversion Kits will allow you to use LUMINOR's BLACKCOMB colour screen controller along with LUMINOR's true proprietary UV lamps and quartz sleeves. Conversion kit includes an adapter (one reusable adapter per kit), controller, o-ring, lamp and quartz sleeve. You keep your existing UVMAX reactor (stainless housing) with no need for any additional or redundant plumbing!

WHY CHOOSE THIS OPTION?

- No cost for plumbing in a new reactor
- BLACKCOMB colour screen controller (fully customizable as an option)
- Full component warranty (3-years on controller, 1-year on lamps)
- True proprietary UV lamps

UVMax® MODEL	LUMINOR PART #	CONVERSION KIT INCLUDES					ELECTRICAL	SHIPPING WEIGHT
		CONTROLLER	LAMP	SLEEVE	ADAPTER	GLAND NUT		
TROJAN UVMAX® CONVERSION KITS								
UVMAX A (120 V)	**150013**	RCHO-4.12	140176	350071	310131	320006	90-265V/ 50-60Hz.	2.3 kg. (5 lbs.)
	140176	Replacement lamp for UVMAX A conversion kit ONLY						
UVMAX B4 (120V)	**150014**	RCHO-4.12	140177	350072	310131	320006	90-265V/ 50-60Hz.	2.3 kg. (5 lbs.)
	140177	Replacement lamp for UVMAX B4 conversion kit ONLY						

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UPGRADE-IT (Trojan UVMax® Continued)

UVMax® MODEL	LUMINOR PART #	CONVERSION KIT INCLUDES					ELECTRICAL	SHIPPING WEIGHT
		CONTROLLER	LAMP	SLEEVE	ADAPTER	GLAND NUT		
UVMAX C, C4, D, D4 Plus (120V)	**150015**	RCHO-4.12	140178	350044	310131	320006	90-265V/ 50-60Hz.	2.3 kg. (5 lbs.)
	140178	Replacement lamp for UVMAX C, C4, D, D4 Plus conversion kit ONLY						
UVMAX E, E4, E4 Plus, PRO 7 (120V)	**150016**	RCHO-4.12	140179	350045	310131	320006	90-265V/ 50-60Hz.	2.3 kg. (5 lbs.)
	140179	Replacement lamp for UVMAX E, E4, E4 Plus PRO 7 conversion kit ONLY						
UVMAX F, F4, F4 Plus, PRO 7 (120V)	**150017**	RCHO-4.12	140180	350046	310131	320006	90-265V/ 50-60Hz.	2.3 kg. (5 lbs.)
	140180	Replacement lamp for UVMAX F, F4, F4 Plus PRO 15 conversion kit ONLY						

SAVE-IT (Sterilight® REPLACEMENT UV LAMPS)

LUMINOR PART #	Sterilight® MODEL	DIMENSIONS *(Base face to base face)*	LAMP LIFE (In hours)	SHIPPING WEIGHT
140140	S212RL	229 mm (9”)	9,000	0.5 kg. 1 lb.
140140-12PK				
140140-30BK				
140141	S287RL	302 mm (11.9”)	9,000	0.5 kg. 1 lb.
140141-12PK				
140141-30BK				
140142	S330RL	343 mm (13.5”)	9,000	0.5 kg. 1 lb.
140142-12PK				
140142-30BK				
140108	S463RL	479 mm (18.9”)	9,000	0.5 kg. 1 lb.
140108-12PK				
140108-30BK				
140109	S810RL	826 mm (32.5”)	9,000	0.5 kg. 1 lb.
140109-12PK				
140109-30BK				
140110	S36RL	857 mm (33.7”)	9,000	0.5 kg. 1 lb.
140110-12PK				
140110-30BK				
140144	S150RL-HO	250 mm (9.84”)	10,000	0.5 kg. 1 lb.
140144-12PK				
140144-30BL				
140145	S200RL-HO	300 mm (11.8”)	10,000	0.5 kg. 1 lb.
140145-12PK				
140145-30BK				

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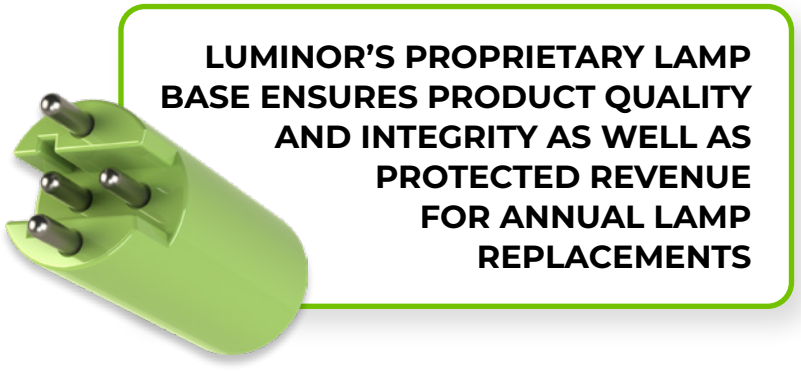
SAVE-IT (Sterilight® REPLACEMENT UV LAMPS continued)

LUMINOR PART #	Sterilight® MODEL	DIMENSIONS *(Base face to base face)*	LAMP LIFE (In hours)	SHIPPING WEIGHT
140147	S320RL-HO	420 mm (16.5”)	10,000	0.5 kg. 1 lb.
140147-12PK				
140147-30BK				
140148	S410RL-HO	510 mm (20.1”)	10,000	0.5 kg. 1 lb.
140148-12PK				
140148-30BK				
140150	S600RL-HO	700 mm (27.6”)	10,000	0.5 kg. 1 lb.
140150-12PK				
140150-30BK				
140151	S740RL-HO	840 mm (33.1”)	10,000	0.5 kg. 1 lb.
140151-12PK				
140151-30BK				
140152	S950RL-HO	950 mm (37.4”)	10,000	0.5 kg. 1 lb.
140152-12PK				
140152-30BK				
All lamps come with replacement o-rings				

NOTE: The UV lamps offered herein by LUMINOR are offered for sale as a direct replacement for the original equipment manufacturer. These lamps are not manufactured by the original equipment manufacturer and they do not endorse, sponsor, or approve the sale of this direct replacement lamp. Sterilight® is a registered trademark of VIQUA, a Trojan Technologies Company.



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SAVE-IT (Trojan UVMax® REPLACEMENT UV LAMPS)

Looking for a value driven, alternative solution to your "factory" replacement lamps, but with a longer one-year, no-hassle warranty? LUMINOR's replacement lamps are US-made, to the exact same stringent manufacturing protocols as our standard LUMINOR lamps and are backed by the EXACT same factory warranty.

LUMINOR PART #	UVMax® MODEL	DIMENSIONS *(Base face to base face)*	LAMP LIFE (In hours)	SHIPPING WEIGHT
140159	Fits UVMAX **Model A**			
140159-12PK	602803	279 mm (11.0")	9,000	0.5 kg. 1 lb.
140159-30BK				
140160	Fits UVMAX **Model B, B4**			
140160-12PK	602804	226 mm (8.9")	10,000	0.5 kg. 1 lb.
140160-30BK				
140111	Fits UVMAX **Model C, C4, D/Plus, D4/Plus**			
140111-12PK	602805	389 mm (15.3")	10,000	0.5 kg. 1 lb.
140111-30BK				
140112	Fits UVMAX **Model E/Plus, E4/Plus, Pro7**			
140112-12PK	602806	631 mm (24.8")	10,000	0.5 kg. 1 lb.
140112-30BK				
140113	Fits UVMAX **Model F/Plus, F4/Plus, Pro15**			
140113-12PK	602807	986mm (38.8")	10,000	0.5 kg. 1 lb.
140113-30BK				
140161	Fits UVMAX **Model G/Plus, Pro10**			
140161-12PK	602854	457mm (18")	20,000	0.5 kg. 1 lb.
140161-30BK				
140162	Fits UVMAX **Model H/Plus, Pro20**			
140162-12PK	602855	686mm (27")	20,000	0.5 kg. 1 lb.
140162-30BK				
140163	Fits UVMAX **Model J/Plus, K/Plus, Pro30/50, S80, SM80, SV50**			
140163-12PK	602856	1080mm (42.5")	20,000	0.5 kg. 1 lb.
140163-30BK				
All lamps come with replacement o-rings				

NOTE: The UV lamps/ballasts (replacement components) offered herein by LUMINOR are offered for sale as a direct replacement for the original equipment manufacturer. These lamps are not manufactured by the original equipment manufacturer and they do not endorse, sponsor, or approve the sale of this direct replacement lamp. Trojan UVMAX® is a registered trademark of VIQUA, a Trojan Technologies Company.

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SAVE-IT (Sterilight® REPLACEMENT QUARTZ SLEEVES)

LUMINOR PART #	Fits Sterilight® SLEEVE	DIMENSIONS / FITS	SHIPPING WEIGHT
350020	QS-200	20 X 23 X 332 mm, DOMED (SPV-200, SP200-HO, SPV-3.5, SC-200, SCM-200)	0.5 kg. (1 lb.)
350020-12PK			5.4 kg. (11.9 lb.)
350020-24BK			2.2 kg. (4.8lb.)
350026	QS-212	20 X 23 X 254 mm, OPEN (SQ-PA, VT1)	0.5 kg. (1 lb.)
350026-12PK			5.4 kg. (11.9 lb.)
350026-24BK			2.2 kg. (4.8lb.)
350021	QS-320	20 X 23 X 452 mm, DOMED (SC-320, SCM-320, SP320-HO, SPV-6)	0.5 kg. (1 lb.)
350021-12PK			5.4 kg. (11.9 lb.)
350021-24BK			2.2 kg. (4.8lb.)
350022	QS-410	20 X 23 X 542 mm, DOMED (SC-410, SCM-410, SPV-410, SP410-HO, SPV-8)	0.5 kg. (1 lb.)
350022-12PK			5.4 kg. (11.9 lb.)
350022-24BK			2.2 kg. (4.8lb.)
350086	QSO-410	20 X 23 X 540 mm, OPEN (S410RL-HO, SC-410-A)	0.5 kg. (1 lb.)
350086-12PK			5.4 kg. (11.9 lb.)
350086-24BK			2.2 kg. (4.8lb.)
350023	QS-600	20 X 23 X 732 mm, DOMED (SC-600, SCM-600, SPV-600, SP600-HO, SPV-12)	0.5 kg. (1 lb.)
350023-12PK			5.4 kg. (11.9 lb.)
350023-24BK			2.2 kg. (4.8lb.)
350024	QS-740	20 X 23 X 872 mm, DOMED (SC-740, SCM-740, SPV-740, SP740-HO, SPV-15)	0.5 kg. (1 lb.)
350024-12PK			5.4 kg. (11.9 lb.)
350024-24BK			2.2 kg. (4.8lb.)
350025	QS-950	20 X 23 X 1082 mm, DOMED (SPV-950, SP950-HO, SPV-20)	0.6 kg. (1.3 lb.)
350025-12PK			6.0 kg. (13.2 lb.)
350025-24BK			2.6 kg. (5.8lb.)
350073	QS-001	20 X 23 X 330 mm, OPEN (S1Q-PA, VH200, SSM-14)	0.5 kg. (1 lb.)
350073-12PK			5.4 kg. (11.9 lb.)
350073-24BK			2.2 kg. (4.8lb.)
350074	QS-330	20 X 23 X 375 mm, OPEN (S2Q-PA, VT4, SSM-17)	0.5 kg. (1 lb.)
350074-12PK			5.4 kg. (11.9 lb.)
350074-24BK			2.2 kg. (4.8lb.)
350041	QS-463	20 X 23 X 502 mm, OPEN (S5Q-PA, SSM-24)	0.5 kg. (1 lb.)
350041-12PK			5.6 kg. (12.3 lb.)
350041-24BK			2.6 kg. (5.8lb.)
350042	QS-810	20 X 23 X 845 mm, OPEN (S8Q-PA, SSM-37)	0.6 kg. (1.3 lb.)
350042-12PK			7.2 kg. (15.8 lb.)
350042-24BK			3.2 kg. (7lb.)
All quartz sleeves come with replacement o-rings			
Please contact factory for estimated delivery times for these items			

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SAVE-IT (Sterilight® REPLACEMENT QUARTZ SLEEVES cont'd)

LUMINOR PART #	Fits Sterilight® SLEEVE	WHERE USED / DESCRIPTION	DIMENSIONS	SHIPPING WEIGHT
		UVMAX®		
350043	QS-012	20 X 23 X 889 mm, OPEN (S12Q, S24Q, S40Q, SSM-39, SUV & SHF-140)		0.6 kg. (1.3 lb.)
350043-12PK				7.2 kg. (15.8 lb.)
350043-24BK				3.4 kg. (7.5lb.)
All quartz sleeves come with replacement o-rings				

SAVE-IT (UVMax® REPLACEMENT QUARTZ SLEEVES)

LUMINOR PART #	UVMAX® SLEEVE	WHERE USED / DESCRIPTION	DIMENSIONS	SHIPPING WEIGHT
		UVMAX®		
UVMAX® (INDIVIDUALLY SOLD & PACKAGED)				
350071	602730	UVMAX - A models	18 X 20.5 X 231 mm DOMED	0.5 kg. / 1 lb.
350072	602731	UVMAX - B/B4 models	18 X 20.5 X 291 mm DOMED	0.5 kg. / 1 lb.
350044	602732	UVMAX - C/C4/D/D4/ D Plus/D4 Plus models	18 X 20.5 X 391 mm DOMED	0.5 kg. / 1 lb.
350045	602733	UVMAX- E/E4/E Plus/ E4 Plus & Pro 7	18 X 20.5 X 632 mm DOMED	0.5 kg. / 1 lb.
350046	602734	UVMAX - F/F4/F Plus/ F4 Plus & Pro 15	18 X 20.5 X 993 mm DOMED	0.5 kg. / 1 lb.
350057	602974	UVMAX - Pro 10, G/Plus	38 X 42 X 445 mm OPEN	0.5 kg. / 1 lb.
350058	602975	UVMAX - Pro 20, H/Plus	38 X 42 X 687 mm OPEN	0.5 kg. / 1 lb.
350059	602976	UVMAX - Pro 30, Pro 50, J/Plus, K/Plus	38 X 42 X 930 mm OPEN	0.5 kg. / 1 lb.
All quartz sleeves come with replacement o-rings				

NOTE: The quartz sleeves offered herein by LUMINOR are offered for sale as a direct replacement for the original equipment manufacturer. These quartz sleeves are not manufactured by the original equipment manufacturer and they do not endorse, sponsor, or approve the sale of this direct replacement quartz sleeve. UVMAX® is a registered trademark of VIQUA, a Trojan Technologies Company.

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PRODUCT COMPARISON CHART

IMAGE	LUMINOR PART #	LUMINOR DESCRIPTION	VIQUA PART #	VIQUA DESCRIPTION
LB4-061 LB5-201 LB6-151 LBH4-101 LBH5-101 LBH6-251	**LB4-031**	3 gpm LP system, audible/visual lamp-out, 1/2" MNPT ports, 110V./50-60Hz.	S2Q-PA	**3 gpm**
	LB4-061	6 gpm LP system, audible/visual lamp-out, 3/4" MNPT ports, 110V./50-60Hz.	S5Q-PA	**6 gpm**
			Discontinued June 2020	
	LB4-101	11 gpm LP system, audible/visual lamp-out, 3/4" MNPT ports, 110V./50-60Hz.	S8Q-PA	**10 gpm**
			Discontinued June 2020	
	LB4-201	21 gpm LP system, audible/visual lamp-out, 1" MNPT ports, 110V./50-60Hz.	VH-410	**18 gpm HO lamp**
	LB5-101	11 gpm LP system, colour screen, lamp countdown, audible alarm, 3/4" MNPT ports, 110V./50-60Hz.	660089-R (D4 Premium)	**12 gpm**
	LB5-201	21 gpm LP system, colour screen, lamp countdown, audible alarm, 1" MNPT ports, 110V./50-60Hz.	650682 (E4)	**22 gpm**
	LB6-101	11 gpm LP system, UV monitor, colour screen, lamp countdown, audible alarm, 3/4" MNPT ports, 110V./50-60Hz.	650695-R (D4+)	**12 gpm**
	LB6-151	15 gpm LP system, UV monitor, colour screen, lamp countdown, audible alarm, 1" MNPT ports, 110V./50-60Hz.	650695-R (D4+)	**12 gpm**
	LB6-201	21 gpm LP system, UV monitor, colour screen, lamp countdown, audible alarm, 1" MNPT ports, 110V./50-60Hz.	650683 (E4+)	**22 gpm**
	LBH4-101	11 gpm axial flow LP-HO system, audible/visual lamp-out, 316L SS, 3/4" MNPT ports, 110-230V./50-60Hz.	VH-200	**9 gpm HO lamp**
	LBH4-151	15 gpm axial flow LP-HO system, audible/visual lamp-out, 316L SS, 1" MNPT ports, 110-230V./50-60Hz.	VH-410	**18 gpm HO lamp**
	LBH4-401	40 gpm axial flow LP-HO system, audible/visual lamp-out, 316L SS, 1½" MNPT ports, 110-230V./50-60Hz.	VP950	**46 gpm HO lamp**
	LBH5-101	10 gpm axial flow LP-HO system, colour screen, lamp countdown, audible alarm, 316L SS, 3/4" MNPT ports, 110-230V./50-60Hz.	660089-R (D4 Premium)	**12 gpm**
	LBH5-251	25 gpm axial flow LP-HO system, colour screen, lamp countdown, audible alarm, 316L SS, 1" MNPT ports, 110-230V./50-60Hz.	650682 (E4)	**22 gpm**
	LBH5-401	40 gpm axial flow LP-HO system, colour screen, lamp countdown, audible alarm, 316L SS, 1½" MNPT ports, 110-230V./50-60Hz.	650686 (F4)	**36 gpm**
	LBH6-101	10 gpm flow LP-HO system, UV monitor, colour screen, lamp countdown, audible alarm, 316L SS, 3/4" MNPT ports, 110-230V./50-60Hz.	650695-R (D4+)	**12 gpm**
	LBH6-251	25 gpm LP-HO system, UV monitor, colour screen, lamp countdown, audible alarm, 316L SS, 1" MNPT ports, 110-230V./50-60Hz.	650683 (E4+)	**22 gpm**
	LBH6-251-50	10 gpm LOW UVT system, as above	650638-R (E4-50+)	**9 gpm**
	LBH6-401	40 gpm LP-HO system, UV monitor, colour screen, lamp countdown, audible alarm, 316L SS, 1½" MNPT ports, 110-230V./50-60Hz.	650687 (F4+)	**36 gpm**
	LBH6-401-50	17 gpm LOW UVT system, as above	650640-R (F4-50+)	**15 gpm**

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LUMINOR ENVIRONMENTAL

LUMINOR BLACKCOMB

LUMINOR EQUIPMENT SPECIFICATIONS

BLACKCOMB SERIES (4.1, 5.1, 6.1) MULTI-USE UV SYSTEMS

MODEL	LB4-Z1 LB5-Z1	LB4-Z2 LB5-Z2	LB4-Z12 LB5-Z12	LBH4-Z2 LBH5-Z2	LBH4-Z12 LBH5-Z12	LBH4-Z22 LBH5-Z22	LBH4-Z122 LBH5-Z122	LBH4-Z222 LBH5-Z222
LUMINOR FLOW RATE @ (30 mJ/cm² at 95% UVT)	8.0 gpm (30.3 lpm) (1.82 m³/hr.)			15.0 gpm (56.8 lpm) (3.4 m³/hr.)				
Alternate flow rate @ (40 mJ/cm² at 95% UVT)	5.6 gpm (21.2 lpm) (1.3 m³/hr.)			12 gpm (45.4 lpm) (2.7 m³/hr.)				
Filter Housing - 1	5 micron sediment **LC-10S**	5 micron sediment **LC-20S**	5 micron sediment **LC-10S**	5 micron sediment **LC-20S**	5 micron sediment **LC-10S**	5 micron sediment **LC-20S**	mesh strainer **LC-10MS**	5 micron sediment **LC-20S**
Filter Housing - 2	N/A	N/A	high capacity carbon **LC-20AC**	N/A	high capacity carbon **LC-20AC**	high capacity carbon **LC-20AC**	5 micron sediment **LC-20S**	scale reduction **LC-20WS**
Filter Housing - 3	N/A	N/A	N/A	N/A	N/A	N/A	high capacity carbon **LC-20AC**	high capacity carbon **LC-20AC**
Port Size	1”FNPT (filter side) / 1” MNPT (UV side)							
Electrical	90-265V/50-60Hz.							
Plug Type	North American: NEMA 5-15P European: CEE 7/7 - “-2” suffix (i.e. **LB5-Z1-2**) British Standard: BS 1363 - “-3” suffix (i.e. **LB5-Z1-3**) Australian/New Zealand: AS/NZ 3112 - “-4” suffix(i.e. **LB5-Z1-4**)							
Lamp Watts	20 (standard-output lamp)			45 (high-output lamp)				
Power (watts)	23 (21 @ 230V.)			57 (48 @ 230V.)				
Replacement Lamp	RL-420			RL-420HO				
Replacement Sleeve	RQ-420							
Reactor Dimensions	8.9 x 50.8 cm (3.5 x 20”)							
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing							
Controller Dimensions	17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4”)			21.8 x 10.7 x 10.2 cm (8.6 x 4.2 x 4”)				
Operating Pressure	0.7-8.3 bar (10-120 psi)							
Operating Water Temperature	2-40° C (36-104° F)							
UV Monitor	OPTIONAL (optional UV module (RS-B3.5) for LB5, (RSHO-B3.5) for LBH5 sold separately)							
Solenoid Output	YES (optional solenoid module (**MOD-SOL1**) sold separately) (LB5/LBH5 series)							
Dry Contacts	YES (remote alarm module (**MOD-RAM**) sold separately) (LB5/LBH5 series)							
4-20 mA Output	YES (4-20mA module (**MOD-420**) sold separately) (LB5/LBH5 series)							
Lamp Change Reminder (audible/visual)	YES							
Lamp-Out Indicator (audible/visual)	YES							
Shipping Weight	11.36 kg (25 lbs)	12.45 kg (27.4 lbs)	18.45 kg (40.6 lbs)	12.82 kg (28.2 lbs)	18.82 kg (41.4 lbs)	20.18 kg (44.4 lbs)	23.13 kg (51 lbs)	27.21 kg (60 lbs)

SPECIFICATIONS

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LUMINOR ENVIRONMENTAL

LUMINOR BLACKCOMB

LUMINOR EQUIPMENT SPECIFICATIONS

BLACKCOMB SERIES (4.1, 5.1, 6.1) MULTI-USE UV SYSTEMS

MODEL 1 *(See "Plug Type" for all 230 volt variants)*	LBX-021 series + 12V	LBX-031 series + 12V	LBX-061 series + 12V	LBX-101 series	LBX-151 series	LBX-201 series
LUMINOR FLOW RATE @ (30 mJ/cm² at 95% UVT)	2 GPM (7.6 lpm) (0.45 m³/hr.)	3 GPM 11.4 lpm 0.7 m³/hr.	6 GPM 22.7 lpm 1.4 m³/hr.	11 GPM 41.6 lpm 2.5 m³/hr.	15 GPM 56.8 lpm 3.4 m³/hr.	21 GPM 79 lpm 4.8 m³/hr.
Alternate flow rate @ (16 mJ/cm² at 95% UVT)	4 GPM 15.1 lpm 0.9 m³/hr.	6 GPM 23 lpm 1.4 m³/hr.	11 GPM 41.6 lpm 2.5 m³/hr.	20 GPM [2] 77 lpm [2] 4.6 m³/hr. [2]	30 GPM [3] 113.6 lpm [3] 6.8 m³/hr. [3]	39 GPM [3] 150 lpm [3] 8.9 m³/hr. [3]
Alternate flow rate @ (40 mJ/cm² at 95% UVT)	1.6 GPM 6.1 lpm 0.36 m³/hr.	2.4 GPM 9.1 lpm 0.5 m³/hr.	4.4 GPM 17 lpm 1.0 m³/hr.	8.3 GPM 31 lpm 1.9 m³/hr.	12 GPM 45.4 lpm 2.7 m³/hr.	16 GPM 59 lpm 3.6 m³/hr.
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	1" MNPT
Electrical	90-265V/50-60Hz.					
Plug Type	North American, NEMA 5-15, 3-wire for all 110V - "1" suffix (i.e. **LB5-061**) European, CEE 7/7, 3-wire for all 230V - "2" suffix (i.e. **LB5-062**) British Standard, BS 1363, 3-wire for all 230V - "3" suffix (i.e. **LB5-063**) Australian/New Zealand, AS/NZ 3112, 3-wire for all 230V - "4" suffix (i.e. **LB5-064**) 12VDC ships with 6' (1.82 m) bare leads (i.e. **LB5-06-12V**)					
Lamp Watts	8	15	22	39	50	42
Power (watts)	14	20	30	49	62	51
Replacement Lamp	RL-210	RL-290	RL-470	RL-820	RL-999	RL-850
Replacement Sleeve	RQ-210	RQ-290	RQ-470	RQ-820	RQ-999	RQ-850
Reactor Dimensions	2.5 x 10.3" (6.4 x 26.2 cm)	2.5 x 14.3" (6.4 x 36.4 cm)	2.5 x 21.3" (6.4 x 54.2 cm)	2.5 x 35.2" (6.4 x 89.5 cm)	2.5 x 40.0" (6.4 x 101.6 cm)	3.5 x 36.1" (8.9 x 91.7 cm)
Chamber Material	Polished 304 Stainless Steel, A249 Pressure Rated Tubing					
Controller Dimensions	17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4")					
Operating Pressure	0.7-10.3 bar (10-150 psi)					
Operating Water Temperature	2-40° C (36-104° F)					
254nm UV Intensity Monitor	YES, on LB6 series, Optional on LB5 series, not available on LB4 series					
Solenoid Output	YES (optional solenoid module (**MOD-SOL**) sold separately) (LB5/6 only)					
4-20 mA Output	YES (optional 4-20mA module (**MOD-420**) sold separately) (LB5/6 only)					
Remote Alarm (volt-free) Output	YES (optional remote alarm module (**MOD-RAM**) sold separately) (LB5/6 only)					
Temperature Management Valve	N/A	130031	130032		130033	
Lamp Change Reminder (audible/visual)	YES					
Lamp-Out Indicator (audible/visual)	YES					
Shipping Weight	3.3 kg. (7.2 lbs.) 3 kg. (7 lbs.) cubed	3.6 kg. (8 lbs.) 3 kg. (7 lbs.) cubed	4.4 kg. (9.6 lbs.) 4.5 kg. (10 lbs.) cubed	6.8 kg. (15.0 lbs.) 7 kg. (15 lbs.) cubed	8.0 kg. (17.6 lbs.) 8 kg. (17 lbs.) cubed	8.4 kg. (18.6 lbs.) 10 kg. (22 lbs.) cubed

Note: 1. Replace "X" with "6" for LB6 series, "5" for LB5 series and "4" for LB4 series
2. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **13.6 gpm** (50 lpm) (3.1 m³/hr.) for 3/4" port
3. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **22.1 gpm** (84 lpm) (5.0 m³/hr.) for 1" port

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LUMINOR ENVIRONMENTAL

LUMINOR BLACKCOMB

LUMINOR EQUIPMENT SPECIFICATIONS

BLACKCOMB-HO SERIES (4.1, 5.1, 6.1) CROSSOVER UV SYSTEMS

MODEL *(See "Plug Type" for all 230 volt variants)*	LBH6-051 LBH5-051 LBH4-051	LBH6-101 LBH5-101 LBH4-101	LBH6-151 LBH5-151 LBH4-151	LBH6-251 LBH5-251 LBH4-251	LBH6-401 LBH5-401 LBH4-401
LUMINOR FLOW RATE @ (30 mJ/cm2 at 95% UVT)	5 GPM 18.9 lpm 1.1 m^3/hr.	10 GPM 37.9 lpm 2.3 m^3/hr.	15 GPM 57 lpm 3.4 m^3/hr.	25 GPM 2 95 lpm 5.7 m^3/hr.	40 GPM 151 lpm 9.1 m^3/hr.
Port Size	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1 ½" MNPT
Electrical	90-265V/50-60Hz. (IEC power cords required)				
Plug Type	North American, NEMA 5-15, 3-wire for all 110V. - "1" suffix (i.e. **LBH6-051**) European, CEE 7/7, 3-wire for all 230V. - "2" suffix (i.e. **LBH6-052**) British Standard, BS 1363, 3-wire for all 230V. - "3" suffix (i.e. **LBH6-053**) Australian/New Zealand, AS/NZ 3112, 3-wire for all 230V. - "4" suffix (i.e. **LBH6-054**)				
Lamp Watts	18	34	45	67	101
Power (watts)	20 (19 @ 230V.)	38 (36 @ 230V.)	57 (48 @ 230V.)	73 (72 @ 230V.)	115 (108 @ 230V.)
Maximum Current (amps)	1	1	1	1	1
Replacement Lamp	RL-210HO	RL-330HO	RL-420HO	RL-600HO	RL-950HO
Replacement Sleeve	RQ-210	RQ-330	RQ-420	RQ-600	RQ-950
Reactor Dimensions	3.5 x 11.7" (8.9 x 29.8 cm)	3.5 x 16.5" (8.9 x 41.8 cm)	3.5 x 20.0" (8.9 x 50.8 cm)	3.5 x 26.9" (8.9 x 68.3 cm)	3.5 x 40.7" (8.9 x 103.4 cm)
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated				
Controller Dimensions	21.8 x 10.7 x 10.2 cm (8.6 x 4.2 x 4")				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temperature	2-40° C (36-104° F)				
254nm UV Intensity Monitor	YES, on LBH6 series, Optional on LBH5 series, not available on LBH4 series				
Solenoid Output	YES (optional solenoid module (**MOD-SOL**) sold separately) (LBH5/6 only)				
4-20 mA Output	YES (optional 4-20mA module (**MOD-420**) sold separately) (LBH5/6 only)				
Remote Alarm (volt-free) Output	YES (optional remote alarm module (**MOD-RAM**) sold separately) (LBH5/6 only)				
Temperature Management Valve	130032		130033		130034
Cooling Fan	130014 (optional)				
Lamp Change Reminder (audible/visual)	YES				
Lamp-Out Indicator (audible/visual)	YES				
Shipping Weight	4.5 kg. (10 lbs.) 5 kg. (11 lbs.) cubed	5.4 kg. (11.9 lbs.) 5 kg. (11 lbs.) cubed	6.0 kg. (13.2 lbs.) 6 kg. (13 lbs.) cubed	7.7 kg. (17 lbs.) 8 kg. (17 lbs.) cubed	9.8 kg. (21.6 lbs.) 11 kg. (24 lbs.) cubed

Note: 1. Replace "X" with "6" for LBH6 series, "5" for LBH5 series and "4" for LBH4 series
2. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **22.1 gpm** (84 lpm) (5.0 m^3/hr.) for 1" port
3. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **52 gpm** (197 lpm) (11.8 m^3/hr.) for 1 ½" port

SPECIFICATIONS

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LUMINOR EQUIPMENT SPECIFICATIONS, **NSF 55, CLASS A**

BLACKCOMB[5.1], MULTI-USE UV SYSTEMS, UV MONITORED

MODEL *(See "Plug Type" for all 230 volt variants)*	LB6-02XA LB6-02A-12V	LB6-03XA LB6-03A-12V	LB6-06XA LB6-06A-12V	LB6-10XA	LB6-15XA
NSF STANDARD 55, CLASS A Flow Rate (40 mJ/cm² @ 70% UVT)	1.6 GPM 6.1 lpm 0.36 m³/hr.	2.2 GPM 8.3 lpm 0.5 m³/hr.	3.4 GPM 12.9 lpm 0.77 m³/hr.	6.3 GPM 23.8 lpm 1.43 m³/hr.	7.9 GPM 29.9 lpm 1.79 m³/hr.
Flow Restrictor	Integral	Integral	Integral	Integral	Integral
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT
Electrical	90-265V/50-60Hz. I 12VDC				
Plug Type	North American, NEMA 5-15, 3-wire for all 110V - "1" suffix (i.e. **LB6-061A**) European, CEE 7/7, 3-wire for all 230V - "2" suffix (i.e. **LB6-062A**) British Standard, BS 1363, 3-wire for all 230V - "3" suffix (i.e. **LB6-063A**) Australian/New Zealand, AS/NZ 3112, 3-wire for all 230V - "4" suffix (i.e. **LB6-064A**)				
Lamp Watts	8	15	22	39	50
Power (watts)	14	20	30	49	62
Maximum Current (amps)	1	1	1	1	1
Replacement Lamp	RL-210	RL-290	RL-470	RL-820	RL-999
Replacement Sleeve	RQ-210	RQ-290	RQ-470	RQ-820	RQ-999
Reactor Dimensions	2.5 x 10.3" (6.4 x 26.2 cm)	2.5 x 14.3" (6.4 x 36.4 cm)	2.5 x 21.3" (6.4 x 54.2 cm)	2.5 x 35.2" (6.4 x 89.5 cm)	2.5 x 40.0" (6.4 x 101.6 cm)
Chamber Material	Polished 304 Stainless Steel, A249 Pressure Rated Tubing				
Controller Dimensions	17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4")				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temperature	2-40° C (36-104° F)				
254nm UV Intensity Monitor	YES (RS-B2.5V)				
Solenoid Output	YES (optional solenoid module (**MOD-SOL**) sold separately)				
4-20 mA Output	YES (optional 4-20mA module (**MOD-420**) sold separately)				
Remote Alarm (volt-free) Output	YES (optional remote alarm module (**MOD-RAM**) sold separately)				
Temperature Management Valve	NA	130031	130032		130033
Lamp Change Reminder (audible/visual)	YES				
Lamp-Out Indicator (audible/visual)	YES				
Shipping Weight	3.3 kg. (7.2 lbs.) 3 kg. (7 lbs.) cubed	3.6 kg. (8 lbs.) 3 kg. (7 lbs.) cubed	4.4 kg. (9.6 lbs.) 4.5 kg. (10 lbs.) cubed	6.8 kg. (15.0 lbs.) 7 kg. (15 lbs.) cubed	8.0 kg. (17.6 lbs.) 8 kg. (17 lbs.) cubed

SPECIAL NOTE: Due to the stringent testing protocol of the NSF Class A standard it is **IMPERATIVE** that water quality parameters be met before the UV unit is installed. Please refer to Installation Guidelines for specific parameters. A UVT (transmittance) test **MUST** also be performed on the raw water as this test will provide critical data that could affect system performance. LUMINOR will perform UVT tests at no charge on any water sample that is sent in for analysis (prepaid samples will NOT be accepted). For further information on water quality, please visit our website at luminoruv.com and for a full NSF listing, please visit **nsf.org**.

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LUMINOR EQUIPMENT SPECIFICATIONS, **NSF 55, CLASS B**

BLACKCOMB[5.1], BLACKCOMB[6.1], MULTI-USE UV SYSTEMS

MODEL *(See "Plug Type" for all 230 volt variants)*	LB5-02XB LB6-02XB	LB5-03XB LB6-03XB	LB5-06XB LB6-06XB	LB5-10XB LB6-10XB	LB5-15XB LB6-15XB
NSF STANDARD 55, CLASS B Flow Rate (16 mJ/cm2 @ 70% UVT)	2.9 GPM 11.0 lpm 0.66 m^3/hr.	5.2 GPM 19.7 lpm 1.18 m^3/hr.	7.6 GPM 28.8 lpm 1.73 m^3/hr.	13.0 GPM 49.2 lpm 2.95 m^3/hr.	22.0 GPM 83.3 lpm 5.00 m^3/hr.
Flow Restrictor	Integral	Integral	Integral	Integral	Integral
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT
Electrical	90-265V/50-60Hz.				
Plug Type	North American, NEMA 5-15, 3-wire for all 110V - "1" suffix (i.e. **LB6-061B**) European, CEE 7/7, 3-wire for all 230V - "2" suffix (i.e. **LB6-062B**) British Standard, BS 1363, 3-wire for all 230V - "3" suffix (i.e. **LB6-063B**) Australian/New Zealand, AS/NZ 3112, 3-wire for all 230V - "4" suffix (i.e. **LB6-064B**)				
Lamp Watts	8	15	22	39	50
Power (watts)	14	20	30	49	62
Maximum Current (amps)	1	1	1	1	1
Replacement Lamp	RL-210	RL-290	RL-470	RL-820	RL-999
Replacement Sleeve	RQ-210	RQ-290	RQ-470	RQ-820	RQ-999
Reactor Dimensions	2.5 x 10.3" (6.4 x 26.2 cm)	2.5 x 14.3" (6.4 x 36.4 cm)	2.5 x 21.3" (6.4 x 52.0 cm)	2.5 x 35.2" (6.4 x 87.3 cm)	2.5 x 40.0" (6.4 x 106.0 cm)
Chamber Material	Polished 304 Stainless Steel, A249 Pressure Rated Tubing				
Controller Dimensions	17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4")				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temperature	2-40° C (36-104° F)				
254nm UV Intensity Monitor	YES (on LB6) Upgradeable (on LB5) RS-B2.5				
Solenoid Output	YES (optional solenoid module (**MOD-SOL**) sold separately)				
4-20 mA Output	YES (optional 4-20mA module (**MOD-420**) sold separately)				
Remote Alarm (volt-free) Output	YES (optional remote alarm module (**MOD-RAM**) sold separately)				
Temperature Management Valve	NA	130031	130032		130033
Lamp Change Reminder (audible/visual)	YES				
Lamp-Out Indicator (audible/visual)	YES				
Shipping Weight	3.3 kg. (7.2 lbs.) 3 kg. (7 lbs.) cubed	3.6 kg. (8 lbs.) 3 kg. (7 lbs.) cubed	4.4 kg. (9.6 lbs.) 4.5 kg. (10 lbs.) cubed	6.8 kg. (15.0 lbs.) 7 kg. (15 lbs.) cubed	8.0 kg. (17.6 lbs.) 8 kg. (17 lbs.) cubed

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LUMINOR EQUIPMENT SPECIFICATIONS, **NSF 55, CLASS A**

BLACKCOMB[6.1], CROSSOVER UV SYSTEMS, UV MONITORED

MODEL *(See "Plug Type" for all 230 volt variants)*	LBH6-05XA	LBH6-10XA	LBH6-15XA	LBH6-25XA	LBH6-40XA
NSF STANDARD 55, CLASS A Flow Rate (40 mJ/cm2 @ 70% UVT)	2.2 GPM 8.3 lpm 0.5 m^3/hr.	4.0 GPM 15.1 lpm 0.91 m^3/hr.	5.4 GPM 20.4 lpm 1.23 m^3/hr.	7.9 GPM 29.9 lpm 1.79 m^3/hr.	18.0 GPM 68.1 lpm 4.08 m^3/hr.
Flow Restrictor	Integral	Integral	Integral	Integral	Integral
Port Size	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1 ½" MNPT
Electrical	90-265V/50-60Hz. (IEC power cords required)				
Plug Type	North American, NEMA 5-15, 3-wire for all 110V - "1" suffix (i.e. **LBH6-101A**) European, CEE 7/7, 3-wire for all 230V - "2" suffix (i.e. **LBH6-102A**) British Standard, BS 1363, 3-wire for all 230V - "3" suffix (i.e. **LBH6-103A**) Australian/New Zealand, AS/NZ 3112, 3-wire for all 230V - "4" suffix (i.e. **LBH6-104A**)				
Lamp Watts	18	34	45	67	101
Power (watts)	20 (19 @ 230V.)	38 (36 @ 230V.)	57 (48 @ 230V.)	73 (72 @ 230V.)	115 (108 @ 230V.)
Maximum Current (amps)	1	1	1	1	1
Replacement Lamp	RL-210HO	RL-330HO	RL-420HO	RL-600HO	RL-950HO
Replacement Sleeve	RQ-210	RQ-330	RQ-420	RQ-600	RQ-950
Reactor Dimensions	3.5 x 11.7" (8.9 x 29.8 cm)	3.5 x 16.5" (8.9 x 41.8 cm)	3.5 x 20.0" (8.9 x 50.8 cm)	3.5 x 26.9" (8.9 x 68.3 cm)	3.5 x 40.7" (8.9 x 103.4 cm)
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated				
Controller Dimensions	21.8 x 10.7 x 10.2 cm (8.6 x 4.2 x 4")				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temperature	2-40° C (36-104° F)				
254nm UV Intensity Monitor	YES (RSHO-B3.5V)				
Solenoid Output	YES (optional solenoid module (**MOD-SOL**) sold separately)				
4-20 mA Output	YES (optional 4-20mA module (**MOD-420**) sold separately)				
Remote Alarm (volt-free) Output	YES (optional remote alarm module (**MOD-RAM**) sold separately)				
Temperature Management Valve	130031	130032	130033		130034
Cooling Fan	130014 (optional)				
Lamp Change Reminder (audible/visual)	YES				
Lamp-Out Indicator (audible/visual)	YES				
Shipping Weight	4.5 kg. (10 lbs.) 5 kg. (11 lbs.) cubed	5.4 kg. (11.9 lbs.) 5 kg. (11 lbs.) cubed	6.0 kg. (13.2 lbs.) 6 kg. (13 lbs.) cubed	7.7 kg. (17 lbs.) 8 kg. (17 lbs.) cubed	9.8 kg. (21.6 lbs.) 11 kg. (24 lbs.) cubed

Note: 1. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **13.6 gpm** (50 lpm) (3.1 m^3/hr.) for 3/4" port
2. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **22.1 gpm** (84 lpm) (5.0 m^3/hr.) for 1" port
3. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **52 gpm** (197 lpm) (11.8 m^3/hr.) for 1 ½" port

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LUMINOR EQUIPMENT SPECIFICATIONS, **NSF 55, CLASS B**

BLACKCOMB[5.1], BLACKCOMB[6.1], UV SYSTEMS

MODEL *(See "Plug Type" for all 230 volt variants)*	LBH5-05XB LBH6-05XB	LBH5-10XB LBH6-10XB	LBH5-15XB LBH6-15XB	LBH5-25XB LBH6-25XB	LBH5-40XB LBH6-40XB
NSF STANDARD 55, CLASS B Flow Rate (16 mJ/cm² @ 70% UVT)	5.4 GPM 20.4 lpm 1.23 m³/hr.	7.6 GPM 28.8 lpm 1.73 m³/hr.	13.0 GPM 49.2 lpm 2.95 m³/hr.	22.0 GPM 83.3 lpm 5.00 m³/hr.	28.0 GPM 106.0 lpm 6.36 m³/hr.
Flow Restrictor	Integral	Integral	Integral	Integral	Integral
Port Size	½" FNPT	¾" MNPT	1" MNPT	1" MNPT	1 ½" MNPT
Electrical	90-265V/50-60Hz. (IEC power cords required)				
Plug Type	North American, NEMA 5-15, 3-wire for all 110V - "1" suffix (i.e. **LBH5-101B**) European, CEE 7/7, 3-wire for all 230V - "2" suffix (i.e. **LBH5-102B**) British Standard, BS 1363, 3-wire for all 230V - "3" suffix (i.e. **LBH5-103B**) Australian/New Zealand, AS/NZ 3112, 3-wire for all 230V - "4" suffix (i.e. **LBH5-104B**)				
Lamp Watts	18	34	45	67	101
Power (watts)	20 (19 @ 230V.)	38 (36 @ 230V.)	57 (48 @ 230V.)	73 (72 @ 230V.)	115 (108 @ 230V.)
Maximum Current (amps)	1	1	1	1	1
Replacement Lamp	RL-210HO	RL-330HO	RL-420HO	RL-600HO	RL-950HO
Replacement Sleeve	RQ-210	RQ-330	RQ-420	RQ-600	RQ-950
Reactor Dimensions	3.5 x 11.7" (8.9 x 29.8 cm)	3.5 x 16.5" (8.9 x 41.8 cm)	3.5 x 20.0" (8.9 x 50.8 cm)	3.5 x 26.9" (8.9 x 68.3 cm)	3.5 x 40.7" (8.9 x 103.4 cm)
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated				
Controller Dimensions	21.8 x 10.7 x 10.2 cm (8.6 x 4.2 x 4")				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temperature	2-40° C (36-104° F)				
254nm UV Intensity Monitor	YES (on LBH6) Upgradeable (on LBH5) RSHO-B3.5				
Solenoid Output	YES (optional solenoid module (**MOD-SOL**) sold separately)				
4-20 mA Output	YES (optional 4-20mA module (**MOD-420**) sold separately)				
Remote Alarm (volt-free) Output	YES (optional remote alarm module (**MOD-RAM**) sold separately)				
Temperature Management Valve	130031	130032	130033		130034
Cooling Fan	130014 (optional)				
Lamp Change Reminder (audible/visual)	YES				
Lamp-Out Indicator (audible/visual)	YES				
Shipping Weight	4.5 kg. (10 lbs.) 5 kg. (11 lbs.) cubed	5.4 kg. (11.9 lbs.) 5 kg. (11 lbs.) cubed	6.0 kg. (13.2 lbs.) 6 kg. (13 lbs.) cubed	7.7 kg. (17 lbs.) 8 kg. (17 lbs.) cubed	9.8 kg. (21.6 lbs.) 11 kg. (24 lbs.) cubed

Note: 1. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to 22.1 gpm (84 lpm) (5.0 m³/hr.) for 1" port

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LUMINOR EQUIPMENT SPECIFICATIONS

GLACIER UVC LED, OEM MODULE / INTEGRATED LED SYSTEM

MODEL	GUV-4S	GUV-5S
Flow Rate @ (10 mJ/cm² at 95% UVT)	1.5 GPM 5.6 lpm	1.5 GPM 5.6 lpm
Flow Rate @ (16 mJ/cm² at 95% UVT)	1.3 GPM 4.9 lpm	1.3 GPM 4.9 lpm
Flow Rate @ (30 mJ/cm² at 95% UVT)	0.6 GPM 2.4 lpm	0.6 GPM 2.4 lpm
Flow Rate @ (40 mJ/cm² at 95% UVT)	0.4 GPM 1.3 lpm	0.4 GPM 1.3 lpm
UVT (%)	Recommended above 90%	
Headloss at Max Flow	166 mBar (2.4 psi)	
Max Pressure	6.9 bar (100psi)	
Max Ambient Temperature	50° C (122° F)	
Operating Water Temperature	0-45° C (32-113° F)	
Water Connections	3/8" OD Tube (fits John Guest® style quick connect fittings)	
Input Voltage	12VDC	
Input Power	15W	16W
Electrical Connection	Standard 12VDC barrel connector, 2.1 x 5.5 mm	
LED Status Monitoring	YES	
LED Life Monitoring	YES	
LED Life	5,000 hours	
Solenoid Output	NA	YES (optional module (**MOD-SOL**) sold separately)
Dry Contacts (solenoid ready)	NA	YES (optional module (**MOD-RAM**) sold separately)
4-20 mA Output	NA	YES (optional module (**MOD-420**) sold separately)
IoT	NA	YES (optional module (**MOD-APP**) sold separately)
Display	Dual colour LED	Full customizable colour screen
Overall Dimensions (with mounting brackets)	241mm x 104mm x 107mm (9.5in x 4.1in x 4.2in)	
Shipping Weight	400 g (14 oz)	

Specifications subject to change without notice.

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LUMINOR EQUIPMENT SPECIFICATIONS

BLACKCOMB-HO, LIGHT COMMERCIAL SPECIALTY UV SYSTEMS

MODEL 1 *(See "Plug Type" for all 230 volt variants)*	LBH5 (non-monitored) / LBH6 (UV-monitored)	LBHX-101-HW	LBHX-151-HW LBHX-151-50 LBHX-151-TOC	LBHX-251-HW LBHX-251-50 LBHX-251-TOC	LBHX-401-HW LBHX-401-50 LBHX-401-TOC
Hot Water Flow Rate 30 mJ/cm2 @ 75% UVT		6.5 GPM (25 lpm) (1.6 m^3/hr.)	10 GPM (38 lpm) (2.3 m^3/hr.)	16 GPM (61 lpm) (4.4 m^3/hr.)	28 GPM (106 lpm) (6.4 m^3/hr.)
LOW UVT Flow Rate 30 mJ/cm2 @ 50% UVT		NA	6 GPM (23 lpm) (1.4 m^3/hr.)	10 GPM (38 lpm) (2.3 m^3/hr.)	17 GPM (64 lpm) (3.9 m^3/hr.)
TOC Flow Rate 150 mJ/cm2 @ 98% UVT		NA	3.2 GPM (12 lpm) (0.7 m^3/hr.)	5 GPM (19 lpm) (1.1 m^3/hr.)	8 GPM (30 lpm) (1.8 m^3/hr.)
Port Size		¾" MNPT	1" MNPT	1" MNPT	1 ½" MNPT
Electrical		90-265V/50-60Hz (IEC power cords required)			
Plug Type		North American, NEMA 5-15, 3-wire for all 110V. - "1" suffix European, CEE 7/7, 3-wire for all 230V - "2" suffix British Standard, BS 1363, 3-wire for all 230V - "3" suffix Australian/New Zealand, AS/NZ 3112, 3-wire for all 230V - "4" suffix North American, NEMA 6-15, 3 prong - "5" suffix			
Lamp Watts		34	45	67	101
Power (watts)		38 (36 @ 230V.)	57 (48 @ 230V.)	73 (72 @ 230V.)	115 (108 @ 230V.)
Replacement Lamp (disinfection @ 254 nm)		NA	RL-420HO	RL-600HO	RL-950HO
Replacement Lamp (HOT WATER @ 254 nm)		RL-330HW	RL-420HW	RL-600HW	RL-950HW
Replacement Lamp (TOC @ 185 nm)		NA	RL-420HO-TOC	RL-600HO-TOC	RL-950HO-TOC
Replacement Sleeve		RQ-330	RQ-420	RQ-600	RQ-950
Chamber Material		316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated			
Controller Dimensions		21.8 x 10.7 x 10.2 cm (8.6 x 4.2 x 4")			
Reactor Dimensions		3.5 x 16.5" (8.9 x 41.8 cm)	3.5 x 20.0" (8.9 x 50.8 cm)	3.5 x 26.9" (8.9 x 68.3 cm)	3.5 x 40.7" (8.9 x 103.4 cm)
Maximum Operating Pressure		10.3 bar (150 psi)			
Optimum Water Temperature		2-65° C (36-149° F)			
254nm UV Intensity Monitor		YES, on LBH6 series, Optional on LBH5 series, not available on LBH4 series			
Solenoid Output		YES (optional solenoid module (**MOD-SOL**) sold separately) (not available on LBH4 series)			
4-20 mA Output		YES (optional 4-20mA module (**MOD-420**) sold separately) (not available on LBH4 series)			
Temperature Management Valve		130032	130033		130034
Cooling Fan		130014 (optional)			
Lamp Change Reminder (audible/visual)		YES			
Lamp-Out Indicator (audible/visual)		YES			
Shipping Weight		Call factory	Call factory	Call factory	Call factory

Note: 1. Replace "X" with "6" for LBH6 series, "5" for LBH5 series and "4" for LBH4 series
2. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to 22.1 gpm (84 lpm) (5.0 m^3/hr.) for 1" port
3. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to 52 gpm (197 lpm) (11.8 m^3/hr.) for 1 ½" port

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LUMINOR EQUIPMENT SPECIFICATIONS

RAINIER, LIGHT COMMERCIAL AMALGAM UV SYSTEMS

MODEL 1 (See "Plug Type" for all 230 volt variants)	LR5 (non-monitored) LR6 (UV-monitored)	LRX-355 LRX-355-50 LRX-355-TOC	LRX-555 LRX-555-50 LRX-555-TOC	LRX-855 LRX-855-50 LRX-855-TOC	LRX-1105 LRX-1105-50 LRX-1105-TOC	LRX-1405 LRX-1405-50 LRX-1405-TOC	LRX-1755 LRX-1755-50 LRX-1755-TOC
Normal Flow Rate 30 mJ/cm² @ 95% UVT		35 GPM (132 lpm) (7.9 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 (90 lpm) (5.0 m³/hr.)	38 GPM (150 lpm) (9.0 m³/hr.)	55 GPM (208 lpm) (11.6 m³/hr.)	75 GPM (283 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) (7.9 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 (45 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.)
Alternate flow @ 16 mJ/cm² at 95% UVT (US Public Health)		66 GPM 1 (250 lpm 1) (15.0 m³/hr. 1)	109 GPM 2 (413 lpm 2) (24.8 m³/hr. 2)	167 GPM 2 (632 lpm 2) (37.9 m³/hr. 2)	266 GPM 3 (1007 lpm 3) (60.4 m³/hr. 3)	337 GPM 4 (1276 lpm 4) (76.5 m³/hr. 4)	406 GPM 5 (1537 lpm 5) (92.2 m³/hr. 5)
Alternate flow @ 40 mJ/cm² at 95% UVT		26 GPM (98 lpm) (5.9 m³/hr.)	44 GPM (167 lpm) (10.0 m³/hr.)	57 GPM (216 lpm) (12.9 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" MNPT
Electrical		110V/60Hz. or 230V/50-60Hz. (IEC power cords required)(MUST specify voltage when ordering)					
Power Plug		North American, 120V order with "1" suffix European, CEE 7/7, 3-wire for all 230V - "2" suffix British Standard, BS 1363, 3-wire for all 230V - "3" suffix Australian/New Zealand, AS/NZ 3112, 3-wire for all 230V - "4" suffix North American, NEMA 6-15, 3 prong for all 230V - "5" suffix					
Lamp Watts		104	152	207	304	344	414
Power (watts)		120	170	220	320	360	430
Replacement Lamp (disinfection @ 254 nm)		RL-500A (1 used)	RL-720A (1 used)	RL-1000A (1 used)	RL-720A (2 used)	RL-843A (2 used)	RL-1000A (2 used)
Replacement Lamp (TOC @ 185 nm)		RL-500A-TOC (1 used)	RL-720A-TOC (1 used)	RL-1000A-TOC (1 used)	RL-720A-TOC (2 used)	RL-843A-TOC (2 used)	RL-1000A-TOC (2 used)
Replacement Sleeve		RQ-500 (1 used)	RQ-720 (1 used)	RQ-1000 (1 used)	RQ-720 (2 used)	RQ-843 (2 used)	RQ-1000 (2 used)
Chamber Material		316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated					
Control Panel Dimensions		11.8 x 7.9 x 6.3" (30.0 x 20.0 x 16.0 cm)			15.8 x 11.8 x 6.3" (40.0 x 30.0 x 16.0 cm)		
Reactor Dimensions		4 x 27.2 x 5.6" (10 x 69 x 14 cm)	4 x 35.8 x 5.6" (10 x 91 x 14 cm)	4 x 46.8 x 5.6" (10 x 119 x 14 cm)	6 x 35.8 x 7.9" (15 x 91 x 20 cm)	6 x 40.6 x 7.9" (15 x 103 x 20 cm)	6 x 46.8 x 7.9" (15 x 119 x 20 cm)
Maximum Operating Pressure		10.3 bar (150 psi)					
Optimum Water Temperature		2-40° C (36-104° F)					
254nm UV Intensity Monitor		YES (on LR6 series) Upgradeable (on LR5 series)					
Remote-On		YES (requires optional **210010** cable assembly sold separately)					
Dry Contacts (solenoid ready)		YES (requires optional **210010** cable assembly sold separately)					
4-20 mA Output		YES (requires optional **210010** cable assembly sold separately)					
Temperature Management Valve		130034	NA				
Cooling Fan		YES (optional **130018** (NA), **130019** (Euro), **130020** (British), **130021** (Australia/NZ))					
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

Note: 1. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **62 gpm** (197 lpm) (11.8 m³/hr.) for 1 ½" port
2. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **103 gpm** (325 lpm) (19.5 m³/hr.) for 2" port
3. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **146 gpm** (463 lpm) (27.8 m³/hr.) for 2 ½" port
4. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **226 gpm** (715 lpm) (42.9 m³/hr.) for 3" port
5. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rate limited to **389 gpm** (1232 lpm) (73.9 m³/hr.) for 4" port

Flow rates for lower doses may not be achievable. Contact factory for custom port sizing. Our sizing is based on standard ideal average dose calculation and 80% lamp efficiency at end of life. **NOTE**: Electrical certification optional for various markets.

SPECIFICATIONS

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LUMINOR EQUIPMENT SPECIFICATIONS

EVEREST, COMMERCIAL/INDUSTRIAL AMALGAM UV SYSTEMS

MODEL 1 (See "Plug Type" for all 230 volt variants)	LE5 (non-monitored) LE6 (UV-monitored)	LEX-A42 LEX-A42-50 LEX-A42-TOC	LEX-A62 LEX-A62-50 LEX-A62-TOC	LEX-A72 LEX-A72-50 LEX-A72-TOC
Normal Flow Rate 30 mJ/cm² @ 95% UVT		530 GPM (2013 lpm) (120.8 m³/hr.)	780 GPM (2957 lpm) (177.4 m³/hr.)	915 GPM[1] (3468 lpm) (208.0 m³/hr.)
Hot Water Flow Rate 30 mJ/cm² @ 75% UVT		230 GPM (870 lpm) (52.2 m³/hr.)	341 GPM (1292 lpm) (77.5 m³/hr.)	404 GPM (1530 lpm) (91.8 m³/hr.)
LOW UVT Flow Rate 30 mJ/cm² @ 50% UVT		119 GPM (452 lpm) (27.1 m³/hr.)	179 GPM (679 lpm) (40.7 m³/hr.)	210 GPM (796 lpm) (47.7 m³/hr.)
TOC Flow Rate 150 mJ/cm² @ 98% UVT		122 GPM (462 lpm) (27.7 m³/hr.)	179 GPM (679 lpm) (40.7 m³/hr.)	209 GPM (793 lpm) (47.6 m³/hr.)
Alternate flow @ 16 mJ/cm² at 95% UVT (US Public Health)		997 GPM[2] (3775 lpm) (226.5 m³/hr.)	1464 GPM[2] (5545 lpm) (332.7 m³/hr.)	1717 GPM[2] (6502 lpm) (390.1 m³/hr.)
Alternate flow @ 40 mJ/cm² at 95% UVT		400 GPM (1510 lpm) (90.6 m³/hr.)	586 GPM (2218 lpm) (133.1 m³/hr.)	687 GPM (2601 lpm) (156.0 m³/hr.)
Port Size		6" Flange (150lb, RF ANSI)		
Electrical		208 - 240V ± 10% / 50-60Hz (hard wired)		
Total Lamps Power (watts)		828	1242	1449
Total System Power (watts)		900	1340	1560
Replacement Lamp (disinfection @ 254 nm)		RL-1000A (4 used)	RL-1000A (6 used)	RL-1000A (7 used)
Replacement Lamp (TOC @ 185 nm)		RL-1000A-TOC (4 used)	RL-1000A-TOC (6 used)	RL-1000A-TOC (7 used)
Replacement Quartz Sleeve		RQ-K2 (4 used)	RQ-K2 (6 used)	RQ-K2 (7 used)
Reactor Material		316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated		
Control Panel Dimensions		16.4 x 22 x 10.6" (42 x 56 x 27 cm)		
Control Panel Material		304 Stainless Steel		
Reactor Dimensions*		54.3 x 18.0 x 10.75" (1379 x 457.6 x 273.1 cm)		
Drain Ports		YES, qty 2 - ½" FNPT		
Maximum Operating Pressure		10.3 bar (150 psi)		
Optimum Water Temperature		2-40° C (36-104° F)		
254nm UV Intensity Monitor		Optional / Upgradeable (LE5 Models), Yes (LE6 Models)		
Remote-On		YES (DIN Rail Terminal Blocks)		
Dry Contacts (solenoid ready)		YES (DIN Rail Terminal Blocks)		
4-20 mA Output		YES (DIN Rail Terminal Blocks)		
Lamp Age Counter		YES		
Visual/Audible Lamp-Out Indicator		YES		
Audible Lamp-Out Alarm		YES		
Lamp/UV Sensor Cable Length		Standard @ 3.05 m (10')		
Shipping Weight		275 lbs (125 kg)		

Note: [1] Based on a flow velocity of 8.2 ft/s (2.5 m/s), flow rates are limited to 883 gpm.
[2] Flow rates for lower doses may not be achievable. Contact factory for custom port sizing.
Our sizing is based on standard ideal average dose calculation and 80% lamp efficiency at end of life.
NOTE: Electrical certification optional for various markets.
* Dimensions are for reference only, and may be revised by LUMINOR without notice.

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CERTIFICATIONS

Drinking water regulations require UV disinfection equipment to be tested and validated depending on the application. Different geographies will require different UV validation protocols for UV equipment verification.

CSA

A standards organization that tests products against applicable North American requirements. CSA certifies a wide range of products including electronics, appliances and PPE. Having a CSA mark on your products means that they are compliant with both Canadian and United States standards, including ANSI, NSF and UL.

NSF – NSF INTERNATIONAL

A standards organization that tests products against applicable North American requirements. NSF focuses on appliances, food equipment and drinking water filtration. Having an NSF certification mark provides assurance that a product was impartially reviewed to establish standards or guidelines. It confirms that the labels and claims about that product have been objectively verified by a trusted third party.

WRAS – WATER REGULATIONS ADVISORY SCHEME

A material approval organization that tests non-metallic materials and simple components that come into contact with drinking water. A WRAS certification demonstrates that the material does not contaminate the water supply. Specifically, it certifies that the product does not affect the taste or smell of drinking water and does not promote the growth of any bacteria.

WATERMARK

A mandatory certification scheme in Australia for plumbing and drainage products to ensure they are fit for purpose and appropriately authorised for use in plumbing and drainage installations. A Watermark certification must be on all plumbing and drainage products in Australia, with no exceptions.

CE

A mandatory conformity marking for regulating the goods sold within the European Economic Area (EEA). The CE marking represents a manufacturer's declaration that products conform with health, safety and environmental protection standards for products sold within the EEA. Products with this marking can be sold anywhere in the EEA.

REGULATORY COMPLIANCE MARK (RCM)

Australia and New Zealand's Regulatory Compliance Mark (RCM) certification is controlled by Australian Communications and Media Authority (ACMA), and is mandatory for all electrical products, other than certain "low-risk", non-wireless, battery powered devices. This mark covers disciplines of safety, EMC, telecom, and wireless testing.

NOM (NORMA OFICIAL MEXICANA) MARK

Electrical products marketed in Mexico must meet Normas Oficiales Mexicanas (NOM) requirements, as well as relevant energy efficiency requirements, and show evidence of compliance with NOM standards.

PSE

PSE (Product Safety Electrical Appliance & Material) the law that governs electrical appliance safety in Japan. The PSE symbol can be found on appliances that are approved for use in Japan.

UL

UL Solutions is the largest and oldest independent testing laboratory in the United States. UL tests and certifies the latest products and technologies for safety before they are marketed around the world. UL covers a wide variety of industries including electrical safety, security, and sustainability.

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STANDARD TERMS & CONDITIONS OF SALE

1. SCOPE

The terms and conditions contained herein (these "Terms") shall apply to all quotations and offers made by LUMINOR Environmental Inc. ("LUMINOR") and to purchase orders made by a buyer ("Buyer") accepted by LUMINOR Environmental Inc. ("LUMINOR (each, an "Order"). These Terms apply to all sales made by LUMINOR except to the extent these Terms conflict with a agreement signed by LUMINOR and Buyer. These Terms apply in lieu of any course of dealing between the parties or usage of trade in the industry. In the event that these Terms conflict with the terms and conditions affixed to Order or other procurement document issued by Buyer, these Terms shall govern. LUMINOR's failure to object to provisions contained in any communication from Buyer shall not be deemed a waiver of the provisions herein. Any changes in the Terms must specifically, be agreed to in writing signed by an officer of LUMINOR before becoming binding on either party.

2. ORDERS

Each Order issued by Buyer in connection with the purchase of any and all products from LUMINOR ("Products"), whether written, faxed, e-mailed or sent in any other form to LUMINOR, and which is accepted by LUMINOR, whether such acceptance is conveyed to Buyer by written, faxed or e-mail format or sent in any other form (in each case, an "Order Acknowledgment"), shall form a binding agreement between Buyer and LUMINOR.

3. PRICE, TAXES AND QUOTATIONS

Prices are subject to change on thirty days written notice to Buyer. Any Order that can be cancelled and rescheduled pursuant to subsection 6(a) is subject to a price change immediately. All prices are exclusive of any present or future sales, revenue or excise tax, value added tax, turnover tax, import duty (including brokerage fees) or other tax applicable to the manufacture or sale of any Product. Such taxes, when applicable, shall be paid by Buyer unless Buyer provides a proper tax exemption certificate. Unless otherwise agreed to in writing by the parties, prices quoted by LUMINOR are those current at the date of quotation and shall be subject to variation by LUMINOR.

4. DELIVERY

Unless otherwise agreed in writing, sales are exclusive of delivery. LUMINOR reserves the right to ship Product that is not subject to cancellation in advance of the agreed shipping date. Unless otherwise agreed in writing, delivery time is not of the essence. Except as specified in subsection 6(b), LUMINOR does not accept liability for any loss arising from delay in delivery of Products.

5. PAYMENT TERMS

Buyer agrees to pay interest on any unpaid balance at a rate of 2% per month. All payments are to be in United States dollars. At LUMINOR's sole discretion, LUMINOR may require payment to be secured by an irrevocable letter of credit or a bank guarantee acceptable to LUMINOR. Where payment is made by letter of credit, all costs of collection shall be for Buyer's account. In the event that LUMINOR is required to take legal action in collecting unpaid accounts, Buyer agrees to pay the reasonable legal fees of LUMINOR and the costs of the respective litigation.

6. NON-CONFORMING DELIVERY AND RISK OF LOSS

Buyer shall notify LUMINOR of any visible defects, quantity shortages or Incorrect. Product shipments within 7 days of receipt of the shipment. Failure to notify LUMINOR in writing of any visible defects in the Products or of quantity shortages or incorrect shipments within such period shall be deemed an unqualified waiver of any rights to return Products on the basis of visible defects, shortages or incorrect shipments, subject to Buyer's rights under section 7. LUMINOR shall retain a security interest in the Products until Buyer's final payment to LUMINOR for same. Risk of loss and title shall pass to Buyer as soon as Products have been placed with a transport agent.

7. ORDER CANCELLATION

(a) Buyers Cancellation: Only Orders for standard Products may be cancelled by Buyer in accordance with this subsection 7(a). Buyer may cancel or reschedule an Order for standard Products without penalty if such cancellation is provided to LUMINOR, in writing, no later than 48 hours prior to the respective order confirmation date (as specified in the respective Order Acknowledgment). Cancellations attempted by Buyer within 48 hours of an Order Confirmation Date must be approved in writing by a LUMINOR representative and may be subject to additional fees.

(b) LUMINOR's Cancellation: LUMINOR shall have the right to cancel any unfilled Order without notice to Buyer in the event that Buyer becomes insolvent, adjudicated bankrupt, petitions for or consents to any relief under any bankruptcy reorganization statute, or becomes unable to meet its financial obligations in the normal course of business. Any Order that Buyer is entitled to cancel or reschedule pursuant to subsection 6(a) may similarly be cancelled or rescheduled by LUMINOR upon written notice to Buyer.

8. RESTOCKING CHARGES

Buyer may only return Products to LUMINOR with LUMINOR's prior written approval and with the issuance of a valid returned goods authorization ("RGA") number, as same is issued by LUMINOR to Buyer. Upon issuance of an RGA, Buyer may return the respective Products to LUMINOR pre-paid. Unless otherwise approved in writing by LUMINOR, LUMINOR reserves the right to refuse any inbound RGA shipment that arrives COD. Products returned to LUMINOR must be in their original packaging and in resalable condition. Charges will be applied if any re-work is required. All authorized RGA's will be subject to a minimum 25% restocking charge.

9. LIMITED LIABILITY

Neither LUMINOR nor Buyer shall be liable for incidental or consequential damages, including but not limited to, the cost of, delay, lost profits, or loss of goodwill arising out of the sale, installation or use of any Product. To the extent that LUMINOR is liable for breach of contract, breach of any implied condition, warranty or representation, the aggregate liability of LUMINOR to Buyer shall be limited in respect of any occurrence or series of occurrences to the contractual value of the Products or services that are the subject of the respective contract.

10. INTELLECTUAL PROPERTY

LUMINOR shall own all intellectual property rights inherent in the Products. The sale of Products hereunder shall not convey any license to Buyer by implication, estoppel or otherwise covering combinations of the Products with other equipment data or programs. LUMINOR shall retain the copyright in all documents, catalogs and plans supplied to Buyer pursuant to or ancillary to any contract between LUMINOR and Buyer.

11. CONFIDENTIAL INFORMATION

Except as required by law, neither party shall use (except for purposes connected with the performance of its obligations hereunder), divulge or communicate to any third party any information of the other that it reasonably understands to be confidential in nature.

12. FORCE MAJEURE

LUMINOR shall not be liable for any damage or penalty for delay in delivery or for failure to give notice of delay when such delay is due to the elements, acts of god, pandemic, acts of Buyer, act of civil or military authority, war, riots, concerted labor action, shortages of materials, or any other causes beyond the reasonable control of LUMINOR. Confirmed Shipping Dates shall be deemed extended for a period of time equal to the time lost due to any delay excusable under this section 12.

13. EXPORT/IMPORT REGULATIONS

Buyer agrees to comply fully with all exportation and importation laws and regulations and to obtain at its own risk and expense any export of import license or other official authorization and shall carry out, where applicable, all custom formalities necessary for the export or import of Products.

14. NOTICES

Any notice hereunder shall be deemed to have been given if sent by prepaid first-class mail to the party concerned at its last known address. Notice to LUMINOR shall be LUMINOR Environmental Inc., Attn: Legal Dept., 80 Southgate Rd. Unit 4, Guelph, ON, Canada, N1G 4P5

15. WAIVER

Failure by LUMINOR to exercise or enforce any rights hereunder shall not be deemed to be a waiver of any such right nor operate so as to bar the exercise or enforcement thereof at any time or times thereafter.

16. APPLICABLE LAW

These Terms and the contract to which they form a part (this "Contract") shall be governed by, construed and interpreted in accordance with the laws of the Province of Ontario and the federal laws of Canada applicable therein. The parties hereby agree that the United Nations Convention on Contracts for the International Sales of Goods will not apply to this Contract.

17. MINIMUM ORDER QUANTITIES

Orders under a total value of $350 will be charged $35 processing charge. Waiver of said charge will be at the sole discretion of the seller.

PRODUCT CATALOG ERRORS AND OMISSIONS

Every effort has been made to ensure the accuracy of the information contained in this product catalog. However, LUMINOR does not warrant the completeness, accuracy, or reliability of the information provided. We reserve the right to make changes and corrections at any time without notice. We are not liable for any errors or omissions in the catalog or for any damages arising from the use of the information contained herein.

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UV DISINFECTION SYSTEMS FOR HOME, INDUSTRY AND REGULATED MARKETS

AROUND THE WORLD.

Carbon Neutral Organisation

LUMINOR is proud to be carbon neutral offsetting all of their carbon emissions by contributing to water related issues around the globe. One project LUMINOR supports is an investment in water related infrastructure in the Northern Rwandan region providing clean drinking water to those in need.
carbonfootprint.com

water for people

As a conscientious corporation who values the environment, LUMINOR donates a portion of our profits to the organization, Water for People. Water for People works to build a world where all people have access to safe drinking water and sanitation, and where no one suffers or dies from a water or sanitation related disease.
waterforpeople.org

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MEMBER Water Quality Association

EPA Establishment #088776-CAN-001

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