



ILLUMINATING TECHNOLOGIES FOR LIFE



LEADERS IN ULTRAVIOLET
WATER DISINFECTION SOLUTIONS

COMING
SOON

LUMINOR™

BLACKCOMB

DIAMOND 4.2 / 5.2 / 6.2

NEXT GENERATION UV CONTROLLERS



- ◆ **NEW** Upgraded Screens & Touch-Enabled
- ◆ **NEW** Outdoor-Certification (above freezing)
- ◆ Fully compatible with previous generation BLACKCOMB systems
- ◆ **NEW** Leak Detection & IOT Modules (only compatible with BLACKCOMB Diamond)

Leak Detector & Hub

Hub supports up to 3 leak-detecting pucks. When paired with a solenoid, the leak detector can shut off water if a leak is detected.



IOT Module

Transmits data from BLACKCOMB to allow integration into existing OEM IOT servers over UART, SPI or I2C protocols.



AVAILABLE ACROSS THE RANGE OF BLACKCOMB SOLUTIONS

COMING
SOON

LUMINOR[®]
RAINIER

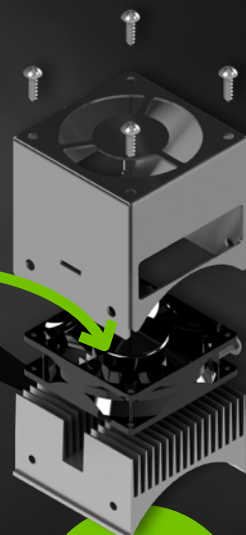
Control Panels
now available in

BLACK

NEW

PLUS

- ◆ **UPDATED** Cooling Fan
(for single-lamp systems)
- ◆ **NEW** Available NSF 55
Class A Certification
(for single-lamp systems)



NEW

REVERSIBLE
Rack Brackets
for quicker installation

PLUS

- ◆ **Standalone Filter Bracket Available**
(pretreatment addition for existing UV systems)



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WHO IS LUMINOR?



Specializing in UV water treatment solutions, LUMINOR Environmental Inc. designs, engineers and assembles all their products in Canada.

We provide product solutions for whole home, light commercial, industrial and municipal applications. Currently LUMINOR distributes product to over 55 countries with over 250,000 systems around the world.

LUMINOR's sole purpose is to provide you, our valued Water Treatment Partner, with the best service, support, product and warranty that this industry has ever seen.

WHY UV?



UV uses **no chemicals** and does not create any by-products or residuals

- Energy efficient & environmentally friendly
- Prevents regrowth of viruses, bacteria and parasites
- Does not add any taste or odor to the water
- 99.999% effective disinfection*



[LUMINORUV.COM](https://luminoruv.com)

*LUMINOR's systems are proven by independent lab testing to show a 99.999% reduction (5-log) in E. Coli contamination and a 99% reduction (2.0 log) of the MS-2 coliphage challenge microorganism.



FEATURES



One-piece sump filter head for a leak-resistant design

Pressure gauge ports for easy access, logging and maintenance

Universal mounting configuration for left or right access



Filter housing drain plug for easy draining and maintenance

316L stainless steel, axial flow reactors for corrosion resistance

Colour interface with full diagnostics and warnings (LB5)



Protect lamp sales with LIGHTLOCK™ technology (LB5)

Low pressure, coated, pre-heat UV lamps for consistent UV output throughout lamp life of 375 days



5.1 UV SYSTEMS

Screen shows diagnostics, status, dealer info, plus Lightlock™ for lamp security and IEP for optional modules.



4.1 UV SYSTEMS

Approachable systems with integrated UV lamp status, countdown timer, and elapsed running time readouts.

RACK MOUNT UV COMBO SYSTEMS

SEE FULL SPECIFICATIONS ON PAGE 61

FLOW RATE 30mJ/cm² @ 95% UVT	MODEL	PORTS	LAMP	SLEEVE	INCLUDED FILTERS	SHIPPING WEIGHT
8 GPM 30.3 lpm 1.82 m ³ /hr	LB4-Z1 LB5-Z1	1" MNPT	RL-420	RQ-420	10" Sediment (LC-10S)	11.36 kg (25 lbs)
8 GPM 30.3 lpm 1.82 m ³ /hr	LB4-Z2 LB5-Z2	1" MNPT	RL-420	RQ-420	20" Sediment (LC-20S)	12.45 kg (27.4 lbs)
8 GPM 30.3 lpm 1.82 m ³ /hr	LB4-Z12 LB5-Z12	1" MNPT	RL-420	RQ-420	10" Sediment (LC-10S) 20" Carbon (LC-20AC)	18.45 kg (40.6 lbs)
15 GPM 56.8 lpm 3.4 m ³ /hr	LBH4-Z2 LBH5-Z2	1" MNPT	RL-420HO	RQ-420	20" Sediment (LC-20S)	12.82 kg (28.2 lbs)
15 GPM 56.8 lpm 3.4 m ³ /hr	LBH4-Z12 LBH5-Z12	1" MNPT	RL-420HO	RQ-420	10" Sediment (LC-10S) 20" Carbon (LC-20AC)	18.82 kg (41.4 lbs)
15 GPM 56.8 lpm 3.4 m ³ /hr	LBH4-Z22 LBH5-Z22	1" MNPT	RL-420HO	RQ-420	20" Sediment (LC-20S) 20" Carbon (LC-20AC)	20.18 kg (44.4 lbs)
15 GPM 56.8 lpm 3.4 m ³ /hr	LBH4-Z122 LBH5-Z122	1" MNPT	RL-420HO	RQ-420	10" Strainer (LC-10MS) 20" Sediment (LC-20S) 20" Carbon (LC-20AC)	23.13 kg (51 lbs)
15 GPM 56.8 lpm 3.4 m ³ /hr	LBH4-Z222 LBH5-Z222	1" MNPT	RL-420HO	RQ-420	20" Sediment (LC-20S) 20" Scale (LC-20WS) 20" Carbon (LC-20AC)	27.21 kg (60 lbs)

AVAILABLE FILTER CARTRIDGES:

5 Micron Sediment (**LC-10S** / **LC-20S**)
Activated Carbon (**LC-20AC**)
Scale Reduction (**LC-20WS**)
Mesh Strainer (**LC-10MS**)

REPLACEMENT PARTS ON PAGE 18

Available for purchase without filter cartridges. Use "-NC" when ordering to indicate "no cartridges" i.e. **LB4-Z1-NC**

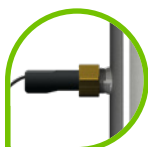
Indicate an alternate power configuration by appending the correct number: "2" for Europe, "3" for British Standard, "4" for Australia/NZ (i.e. **LB4-Z1-2**)



CLASS A



FEATURES



Includes Teflon® based UV sensor with various output capabilities

304 stainless steel (LB) or 316L (LBH) axial flow reactors

Includes integrated flow restrictor



Protect lamp sales with LIGHTLOCK™ technology

IEP (infinite expandability port) for future upgrades & options

Colour interface with diagnostics, warnings, and QR codes



Flow rates stated at NSF Class A dose of 40 mJ/cm² at 70% UVT

For use on non-potable water supplies

Low pressure, coated, pre-heat lamps for consistent UV output throughout lamp life of 375 or 420 days (LB or LBH)



6.1 UV SYSTEMS

Continuous UV monitoring in addition to 5.1 features: screen, customization, Lightlock™, and module compatibility.

NSF STANDARD 55, CLASS A MULTI-USE UV



SEE FULL SPECIFICATIONS ON PAGE 62

FOR USE ON NON-POTABLE SUPPLIES

FLOW RATE NSF Class A 40mJ/cm ² @ 70% UVT	MODEL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
1.6 GPM 6.1 lpm 0.36 m ³ /hr	LB6-02XA LB6-02A-12V	½" FNPT	RL-210	RQ-210	3.3 kg (7.3 lbs)
2.2 GPM 8.3 lpm 0.5 m ³ /hr	LB6-03XA LB6-03A-12V	½" MNPT	RL-290	RQ-290	3.3 kg (7.3 lbs)
	LBH6-05XA	½" MNPT	RL-210HO	RQ-210	4.5 kg (9.9 lbs)
3.4 GPM 12.9 lpm 0.77 m ³ /hr	LB6-06XA LB6-06A-12V	¾" MNPT	RL-470	RQ-470	4.2 kg (9.3 lbs)
4 GPM 15.1 lpm 0.91 m ³ /hr	LBH6-10XA	¾" MNPT	RL-330HO	RQ-330	5.4 kg (11.9 lbs)
5.4 GPM 20.4 lpm 1.23 m ³ /hr	LBH6-15XA	1" MNPT	RL-420HO	RQ-420	6 kg (13.2 lbs)
6.3 GPM 23.8 lpm 1.43 m ³ /hr	LB6-10XA	¾" MNPT	RL-820	RQ-820	6.8 kg (15 lbs)
7.9 GPM 29.9 lpm 1.79 m ³ /hr	LB6-15XA	1" MNPT	RL-999	RQ-999	8.0 kg (17.6 lbs)
	LBH6-25XA		RL-600HO	RQ-600	7.1 kg (15.7 lbs)
18 GPM 68.1 lpm 4.08 m ³ /hr	LBH6-40XA	1½" MNPT	RL-950HO	RQ-950	9.5 kg (21 lbs)

Replace "X" in the model number with the applicable power cord:
"1" for NA, "2" for Europe, "3" for British Standard, "4" for Australia/NZ

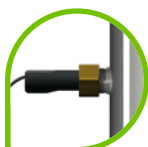
REPLACEMENT PARTS ON PAGE 38



CLASS B



FEATURES



Optional Teflon® based UV sensor with various output capabilities

304 stainless steel (LB) or 316L (LBH) axial flow reactors

Includes integrated flow restrictor



Protect lamp sales with LIGHTLOCK™ technology

IEP (infinite expandability port) for future upgrades & options

Colour interface with diagnostics, warnings, and QR codes



Flow rates stated at NSF Class B dose of 16 mJ/cm² at 70% UVT

For use on potable water supplies

Low pressure, coated, pre-heat lamps for consistent UV output throughout lamp life of 375 or 420 days (LB or LBH)



6.1 UV SYSTEMS

Continuous UV monitoring in addition to 5.1 features: screen, customization, Lightlock™, and module compatibility.



5.1 UV SYSTEMS

Screen shows diagnostics, status, dealer info, plus Lightlock™ for lamp security and IEP for optional modules.

NSF STANDARD 55, CLASS B MULTI-USE UV



SEE FULL SPECIFICATIONS ON PAGE 64

FOR USE ON POTABLE SUPPLIES

FLOW RATE NSF Class B 16mJ/cm ² @ 70% UVT	MODEL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
2.9 GPM 11.0 lpm 0.66 m ³ /hr	LB5-02XB	$\frac{1}{2}$ " FNPT	RL-210	RQ-210	3.3 kg (7.3 lbs)
	LB6-02XB				
5.2 GPM 19.7 lpm 1.18 m ³ /hr	LB5-03XB	$\frac{1}{2}$ " MNPT	RL-290	RQ-290	3.3 kg (7.3 lbs)
	LB6-03XB				
5.4 GPM 20.4 lpm 1.23 m ³ /hr	LBH5-05XB	$\frac{1}{2}$ " MNPT	RL-210HO	RQ-210	4.5 kg (9.9 lbs)
	LBH6-05XB				
7.6 GPM 28.8 lpm 1.73 m ³ /hr	LB5-06XB	$\frac{3}{4}$ " MNPT	RL-470	RQ-470	4.2 kg (9.3 lbs)
	LB6-06XB		RL-330HO	RQ-330	5.4 kg (11.9 lbs)
	LBH5-10XB				
	LBH6-10XB				
13 GPM 49.2 lpm 2.95 m ³ /hr	LB5-10XB	$\frac{3}{4}$ " MNPT	RL-820	RQ-820	6.8 kg (15 lbs)
	LB6-10XB				
	LBH5-15XB	1" MNPT	RL-420HO	RQ-420	6 kg (13.2 lbs)
	LBH6-15XB				
22 GPM 83.3 lpm 5 m ³ /hr	LB5-15XB	1" MNPT	RL-999	RQ-999	8.0 kg (17.6 lbs)
	LB6-15XB		RL-600HO	RQ-600	7.1 kg (15.7 lbs)
	LBH5-25XB				
	LBH6-25XB				
28 GPM 106 lpm 6.36 m ³ /hr	LBH5-40XB	1 $\frac{1}{2}$ " MNPT	RL-950HO	RQ-950	9.5 kg (21 lbs)
	LBH6-40XB				

REPLACEMENT PARTS ON PAGE 38

Replace "X" in the model number with the applicable power cord:
"1" for NA, "2" for Europe, "3" for British Standard, "4" for Australia/NZ



LBH6-151-HW

FEATURES



Sensor port for future upgradeability, doubles as visual glow plug

316L stainless steel, axial flow reactors for corrosion resistance

High-output system allows for small footprint and high flowrates



IEP (infinite expandability port) for upgrades & options (LBH5/6)

LED lamp countdown constant current electronic ballast (LB4H)

Colour interface with diagnostics, warnings, and QR codes (LBH5/6)



Protect lamp sales with LIGHTLOCK™ technology (LBH5/6)

Low pressure, coated, pre-heat lamps for consistent UV output throughout lamp life of 375 or 420 days (LB or LBH)



6.1 UV SYSTEMS

Continuous UV monitoring in addition to 5.1 features: screen, customization, Lightlock™, and module compatibility.



5.1 UV SYSTEMS

Screen shows diagnostics, status, dealer info, plus Lightlock™ for lamp security and IEP for optional modules.



4.1 UV SYSTEMS

Approachable systems with integrated UV lamp status, countdown timer, and elapsed running time readouts.

CROSSOVER UV SPECIALTY APPLICATIONS

SEE FULL SPECIFICATIONS ON PAGE 66

	FLOW RATE	MODEL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
HOT WATER 30mJ @ 75% (254nm)	6.5 GPM 25 lpm 1.5 m³/hr	LBH4-10X-HW LBH5-10X-HW LBH6-10X-HW	¾" MNPT	RL-330HW	RQ-330	5.4 kg (11.9 lbs)
	10 GPM 37.9 lpm 2.3 m³/hr	LBH4-15X-HW LBH5-15X-HW LBH6-15X-HW	1" MNPT	RL-420HW	RQ-420	6 kg (13.2 lbs)
	16 GPM 61 lpm 3.66 m³/hr	LBH4-25X-HW LBH5-25X-HW LBH6-25X-HW	1" MNPT	RL-600HW	RQ-600	7.1 kg (15.7 lbs)
	28 GPM 106 lpm 6.36 m³/hr	LBH4-40X-HW LBH5-40X-HW LBH6-40X-HW	1½" MNPT	RL-950HW	RQ-950	9.5 kg (21 lbs)
LOW UVT 30mJ @ 50% (254nm)	6 GPM 23 lpm 1.38 m³/hr	LBH4-15X-50 LBH5-15X-50 LBH6-15X-50	1" MNPT	RL-420HO	RQ-420	6 kg (13.2 lbs)
	10 GPM 37.9 lpm 2.3 m³/hr	LBH4-25X-50 LBH5-25X-50 LBH6-25X-50	1" MNPT	RL-600HO	RQ-600	7.1 kg (15.7 lbs)
	17 GPM 64 lpm 3.84 m³/hr	LBH4-40X-50 LBH5-40X-50 LBH6-40X-50	1½" MNPT	RL-950HO	RQ-950	9.5 kg (21 lbs)
TOC 150mJ @ 98% (185 & 254nm)	0.7 GPM 2.6 lpm 0.15 m³/hr	LB4-031-TOC	½" MNPT	RL-290-TOC	RQ-290	5.4 kg (11.9 lbs)
	3.2 GPM 12 lpm 0.72 m³/hr	LBH4-15X-TOC LBH5-15X-TOC LBH6-15X-TOC	1" MNPT	RL-420HO-TOC	RQ-420	6 kg (13.2 lbs)
	5 GPM 19 lpm 1.14 m³/hr	LBH4-25X-TOC LBH5-25X-TOC LBH6-25X-TOC	1" MNPT	RL-600HO-TOC	RQ-600	7.1 kg (15.7 lbs)
	8 GPM 30 lpm 1.8 m³/hr	LBH4-40X-TOC LBH5-40X-TOC LBH6-40X-TOC	1½" MNPT	RL-950HO-TOC	RQ-950	9.5 kg (21 lbs)

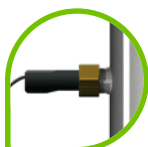
Replace "X" in the model number with the applicable power cord:
 "1" for NA, "2" for Europe, "3" for British Standard, "4" for Australia/NZ

REPLACEMENT PARTS ON PAGE 38



LBH5-151

FEATURES



Sensor port for future upgradeability, doubles as visual glow plug

316L stainless steel, axial flow reactors for corrosion resistance

High-output system allows for small footprint and high flowrates



IEP (infinite expandability port) for upgrades & options (LBH5/6)

LED lamp countdown constant current electronic ballast (LBH4)

Colour interface with diagnostics, warnings, and QR codes (LBH5/6)



Protect lamp sales with LIGHTLOCK™ technology (LBH5/6)

Low pressure, coated, pre-heat UV lamps for consistent UV output throughout lamp life of 420 days



6.1 UV SYSTEMS

Continuous UV monitoring in addition to 5.1 features: screen, customization, Lightlock™, and module compatibility.



5.1 UV SYSTEMS

Screen shows diagnostics, status, dealer info, plus Lightlock™ for lamp security and IEP for optional modules.



4.1 UV SYSTEMS

Approachable systems with integrated UV lamp status, countdown timer, and elapsed running time readouts.

CROSSOVER UV HIGH OUTPUT

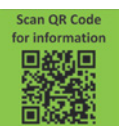
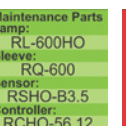
SEE FULL SPECIFICATIONS ON PAGE 67

FLOW RATE 30mJ/cm² @ 95% UVT	MODEL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
5 GPM 18.91 lpm 1.1 m ³ /hr	LBH4-05X	$\frac{1}{2}$ " MNPT	RL-210HO	RQ-210	4.5 kg (9.9 lbs)
	LBH5-05X				
	LBH6-05X				
10 GPM 37.9 lpm 2.3 m ³ /hr	LBH4-10X	$\frac{3}{4}$ " MNPT	RL-330HO	RQ-330	5.4 kg (11.9 lbs)
	LBH5-10X				
	LBH6-10X				
15 GPM 56.8 lpm 3.4 m ³ /hr	LBH4-15X	1" MNPT	RL-420HO	RQ-420	6 kg (13.2 lbs)
	LBH5-15X				
	LBH6-15X				
25 GPM 95 lpm 5.7 m ³ /hr	LBH4-25X	1" MNPT	RL-600HO	RQ-600	7.1 kg (15.7 lbs)
	LBH5-25X				
	LBH6-25X				
40 GPM 151 lpm 9.1 m ³ /hr	LBH4-40X	1.5" MNPT	RL-950HO	RQ-950	9.5 kg (21 lbs)
	LBH5-40X				
	LBH6-40X				

REPLACEMENT PARTS ON PAGE 38

Replace "X" in the model number with the applicable power cord:
"1" for NA, "2" for Europe, "3" for British Standard, "4" for Australia/NZ

SAMPLE SCREENS AVAILABLE ON LB5/6 CONTROLLER:

									
Home	Lamp Life Remaining	Lamp Expiration	QR Code	Lamp Failure	Corporate Contact	Incorrect Lamp	Parts	Missing Key	Invalid Key



FEATURES



Sensor port for future upgradeability, doubles as visual glow plug

304 stainless steel, axial flow reactors for maximum efficiency

Mounts vertically or horizontally for maximum flexibility



IEP (infinite expandability port) for upgrades & options (LB5/6)

LED lamp countdown constant current electronic ballast (LB4)

Colour interface with diagnostics, warnings, and QR codes (LB5/6)



Protect lamp sales with LIGHTLOCK™ technology (LB5/6 only)

Low pressure, coated, pre-heat UV lamps for consistent UV output throughout lamp life of 375 days



6.1 UV SYSTEMS

Continuous UV monitoring in addition to 5.1 features: screen, customization, Lightlock™, and module compatibility.



5.1 UV SYSTEMS

Screen shows diagnostics, status, dealer info, plus Lightlock™ for lamp security and IEP for optional modules.



4.1 UV SYSTEMS

Approachable systems with integrated UV lamp status, countdown timer, and elapsed running time readouts.

MULTI-USE UV STANDARD OUTPUT

SEE FULL SPECIFICATIONS ON PAGE 68

FLOW RATE 30mJ/cm² @ 95% UVT	MODEL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
2 GPM 7.6 lpm 0.45 m³/hr	LB4-02X LB5-02X LB6-02X	½" FNPT	RL-210	RQ-210	3.2 kg (7.1 lbs)
	LB5-02-12V LB6-02-12V				
3 GPM 11.4 lpm 0.7 m³/hr	LB4-03X LB5-03X LB6-03X	½" MNPT	RL-290	RQ-290	3.6 kg (7.1 lbs)
	LB5-03-12V LB6-03-12V				
6 GPM 22.7 lpm 1.4 m³/hr	LB4-06X	¾" MNPT	RL-470	RQ-470	4.2 kg (9.3 lbs)
	LB5-06X				
	LB6-06X				
	LB5-06-12V LB6-06-12V				
11 GPM 41.6 lpm 2.5 m³/hr	LB4-10X LB5-10X LB6-10X	¾" MNPT	RL-820	RQ-820	6.8 kg (15 lbs)
15 GPM 56.8 lpm 3.4 m³/hr	LB4-15X LB5-15X LB6-15X	1" MNPT	RL-999	RQ-999	8.0 kg (17.6 lbs)
21 GPM 79 lpm 4.8 m³/hr	LB4-20X LB5-20X LB6-20X	1" MNPT	RL-850	RQ-850	7.5 kg (16.5 lbs)

#3 Best Seller

Replace "X" in the model number with the applicable power cord: "1" for NA, "2" for Europe, "3" for British Standard, "4" for Australia/NZ

REPLACEMENT PARTS ON PAGE 38

SAMPLE SCREENS AVAILABLE ON LB5/6 CONTROLLER:



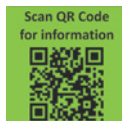
Home



Lamp Life Remaining



Lamp Expiration



QR Code



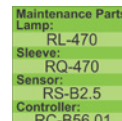
Lamp Failure



Corporate Contact



Incorrect Lamp



Parts



Missing Key



Invalid Key



FEATURES



Colour interface with diagnostics, warnings, and QR codes (LBC5)

Rugged and durable high-output UV systems

8-15 GPM systems available



Built-in lamp life monitor with lamp-life indicators (LBC4)

High-output system allows for small footprint and high flowrates



One-piece filter head for a leak-resistant design on rack systems

Low pressure, coated, pre-heat UV lamps for consistent UV output throughout lamp life of 420 days (375 days on 8GPM system)



5.1 UV SYSTEMS

Screen shows diagnostics, status, dealer info, plus Lightlock™ for lamp security and IEP for optional modules.



4.1 UV SYSTEMS

Approachable systems with integrated UV lamp status, countdown timer, and elapsed running time readouts.

CONTRACTOR SERIES UV

SEE FULL SPECIFICATIONS ON PAGE 69

Contract Series pricing is based on:
20 piece MOQ for LBC4-101 and LBC4-151 systems;
5 piece MOQ for LBC4-R1 and LBC4-R2

FLOW RATE 30mJ/cm² @ 95% UVT	MODEL	PORTS	LAMP	SLEEVE	INCLUDED FILTERS	SHIPPING WEIGHT
10 GPM 37.9 lpm 2.3 m³/hr	LBC4-10X LBC5-10X	1" MNPT	RL-330HO	RQ-330	—	5.4 kg (11.9 lbs)
15 GPM 56.8 lpm 3.4 m³/hr	LBC4-15X LBC5-15X	1" MNPT	RL-420HO	RQ-420	—	6 kg (13.2 lbs)
8 GPM 30.3 lpm 1.82 m³/hr	LBC4-R1 LBC5-R1	1" MNPT	RL-420	RQ-420	10" Sediment (LC-10S)	11.3 kg (25 lbs)
15 GPM 56.8 lpm 3.4 m³/hr	LBC4-R2 LBC5-R2	1" MNPT	RL-420HO	RQ-420	20" Sediment (LC-20S)	12.4 kg (27.4 lbs)

REPLACEMENT PARTS ON PAGE 38

Available for purchase without filter cartridges. Use "-NC" when ordering to indicate "no cartridges" i.e. **LBC4-R1-NC**

Replace "X" in the model number with the applicable power cord:
 "1" for NA, "2" for Europe, "3" for British Standard, "4" for Australia/NZ

SAMPLE SCREENS AVAILABLE ON LBC5 CONTROLLER:



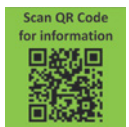
Home



Lamp Life Remaining



Lamp Expiration



QR Code



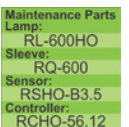
Lamp Failure



Corporate Contact



Incorrect Lamp



Parts



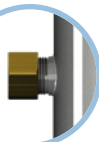
Missing Key



Invalid Key



FEATURES



Based on 4.1 series features including toolless lamp connector and view port

304 stainless steel, axial flow reactors for maximum efficiency & simple service



Vending platform with integrated dry contacts (NO, NC, COMMON)

Direct-wire powered

LED lamp countdown constant current electronic ballast (LB4)



Red/Green Lamp OFF/ON status light, NO audible alarm

Low pressure, coated, pre-heat UV lamps for consistent UV output throughout lamp life of 375 days

VENDING SYSTEMS INTEGRATED DRY CONTACTS

SEE FULL SPECIFICATIONS ON PAGE 70

FLOW RATE 30mJ/cm² @ 95% UVT	MODEL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
2 GPM 7.6 lpm 0.45 m ³ /hr	LBV-02X	½" FNPT	RL-210	RQ-210	3.2 kg (7.1 lbs)
3 GPM 11.4 lpm 0.7 m ³ /hr	LBV-03X	½" MNPT	RL-290	RQ-290	3.6 kg (8 lbs)
6 GPM 22.7 lpm 1.4 m ³ /hr	LBV-06X	¾" MNPT	RL-470	RQ-470	4.2 kg (9.3 lbs)

REPLACEMENT PARTS ON PAGE 38



FEATURES



Sediment filters made from 100% polypropylene

- Long-life filters for reduced filtration cost
- Suitable for high flowrates



Carbon filters provide industry-standard pre-filtration for great tasting water

- Quick and easy replacements with included filter wrench and integrated drain ports on Rack systems
- FDA-approved materials



ScaleArmor™ filters combine 5-micron sediment filtration and scale prevention

- Available with or without UV disinfection (filter-only racks available)

CARTRIDGE FILTERS & RACK MOUNT PARTS

MODEL	DESCRIPTION	DIMENSIONS	SHIPPING WEIGHT
LC-10MS	90 µm Mesh Strainer	10" x 4.5" (25.4cm x 11.4cm)	0.5 kg (1.1 lbs)
LC-10S	50/5 µm Sediment Filter	10" x 4.5" (25.4cm x 11.4cm)	0.5 kg (1.1 lbs)
LC-20S	50/5 µm Sediment Filter	20" x 4.5" (50.8cm x 11.4cm)	0.9 kg (2 lbs)
LC-20AC	25 µm Carbon Filter (Taste & Odour)	20" x 4.5" (50.8cm x 11.4cm)	0.9 kg (2 lbs)
LC-20WS	ScaleArmor™ Scale Reduction Filter	20" x 4.5" (50.8cm x 11.4cm)	0.9 kg (2 lbs)
510035	Rack Mount Parts Kit		
LP-2	Pressure Gauge, 1/8" MNPT (Set of 2)		
310177	O-Ring for New Style Housings (<i>systems prior to 2017, use PN 310142</i>)		
160021	Filter Wrench for Filter Housings		
160042	Drain Port Cap with O-ring for Filter Housings		
160061	Replacement Vent Cap		
R-Hose-18	Replacement stainless steel hose, 18"		
R-Hose-24	Replacement stainless steel hose, 24"		
160030	Single 10" Filter Housing with Bracket, Wrench, and Drain Plug (Purchase in qty of 2)		
160031	Single 20" Filter Housing with Bracket, Wrench, and Drain Plug (Purchase in qty of 2)		
160032	Double 10" & 20" Filter Housing with Bracket, Wrench, and Drain Plug		
160033	Double 20" Filter Housing with Bracket, Wrench, and Drain Plug		

OPTIONAL EQUIPMENT MODULES

SOLENOID CONNECTION MODULE

AN ADDED LAYER OF PROTECTION

Used to power a remote normally closed solenoid valve. When used in combination with a flowmeter or UV sensor, the Solenoid Module can physically close a water line to avoid consumption of unsafe water.

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.



MODEL	ELECTRICAL	SHIPPING WEIGHT
MOD-SOL1	North American (NEMA 1-15)	0.5 kg (1.1 lbs)
MOD-SOL2	European (CEE 7/7)	
MOD-SOL3	British (BS 1363)	
MOD-SOL4	Australian (AS/NZS 3112)	

OPTIONAL EQUIPMENT MODULES

UV SENSOR MODULE

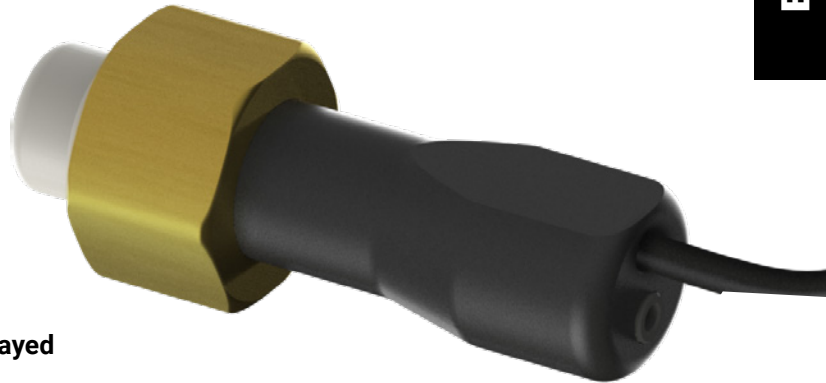
NEXT LEVEL UV DETECTION

The LUMINOR UV Sensor Module **allows the 254nm UV wavelength to be measured and relative intensity displayed via the system controller** on a BLACKCOMB 5.1 system

(standard on 6.1). The sensor plugs directly into the controller and is mounted in the sensor port located on standard reactors. By monitoring the UV intensity, you can approximate the effectiveness of the UV system and troubleshoot errors that may indicate a need for cleaning, prefiltration, part replacement, or other solutions.

With the advanced Silicon Carbide Diode with **enhanced dynamic range and >10% accuracy improvement**, get peace of mind that your UV system is performing as expected. We've also improved longterm stability over the lifetime of the sensor, reducing nuisance alarms.

One-piece sensor housing and silicone elastomer potting compound provides next level environmental durability and eliminates the possibility of leaks during regular use.



MODEL	COMPATIBILITY	SHIPPING WEIGHT
RS-B2.5	BLACKCOMB Standard-Output 5.1 systems with 2.5" chambers (Standard on LB6) (LB5-02X, LB5-03X, LB5-06X, LB5-10X, LB5-15X, and all variants)	0.2 kg (0.5 lbs)
RS-B3.5	BLACKCOMB Standard-Output 5.1 systems with 3.5" chambers (Standard on LB6) (LB5-20X, and all 8gpm 3.5" rack systems)	
RSHO-B3.5	BLACKCOMB High-Output 5.1 systems with 3.5" chambers (Standard on LBH6) (LBH5-05X, LBH5-10X, LBH5-15X, LBH5-25X, LBH5-40X, and all 15gpm rack systems)	
RS-B2.5V	NSF Class A Validated BLACKCOMB Standard-Output systems with 2.5" chambers.	
RSHO-B3.5V	NSF Class A Validated BLACKCOMB High-Output systems with 3.5" chambers.	
RSHO-B3.5-50	BLACKCOMB HO 5.1 "Low UVT" systems with 3.5" chambers (Standard on LBH6) (LBH5-15X-50, LBH5-25X-50, LBH5-40X-50)	

OPTIONAL EQUIPMENT MODULES

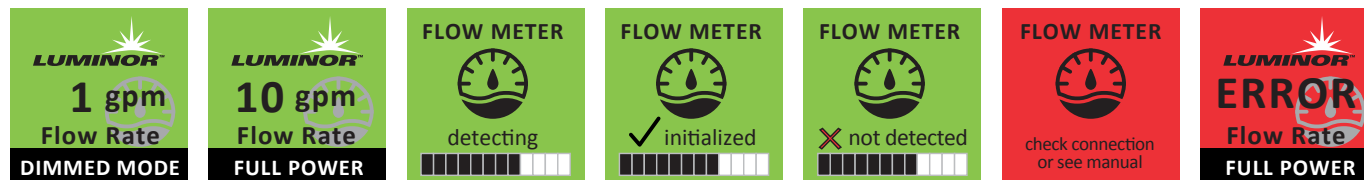
ULTRASONIC FLOWMETER MODULE

LUMINOR's **ULTRASONIC FLOW METER** provides accurate, real-time flow monitoring. 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 flow detectors are not only inaccurate in their flow measurements, but have no way to warn the user, or bring the system back to full power, in the event of a mechanical failure to their device.

Composite body
(1/2", 3/4")Brass body
(1", 1 1/2")

SAMPLE SCREENS FOR FLOWMETER OPERATION:



MODEL	DESCRIPTION	SHIPPING WEIGHT
LFM-0.5	1/2" flowmeter, 1/2" brass threaded connections, composite body	0.2 kg (0.5 lbs)
LFM-0.75	3/4" flowmeter, 3/4" brass threaded connections, composite body	
LFM-1.0	1" flowmeter, 1" brass threaded connections, brass body	
LFM-1.5	1 1/2" flowmeter, 1 1/2" brass threaded connections, brass body	

Add numbered suffix to the model number for alternate power cords: "2" for Europe, "3" for British Standard, "4" for Australia/NZ (i.e. LFM-0.5-2)

OPTIONAL EQUIPMENT MODULES

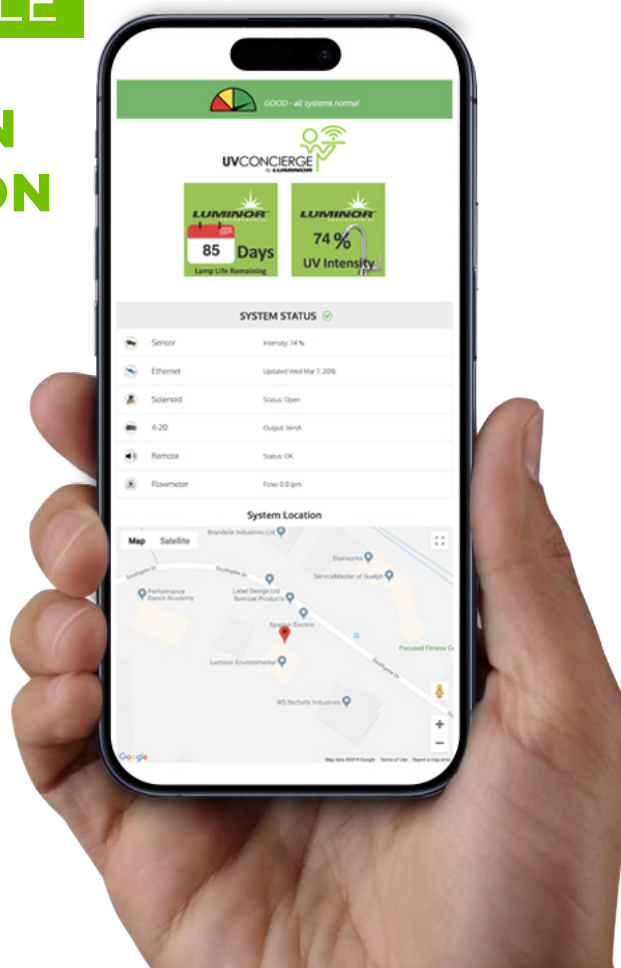
UV CONCIERGE IoT MODULE

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)
- SMS & email alerts for alarm conditions
- Safe & protected, cloud-based data management
- Monitor just one system, or ALL the systems that you service
- FCC compliance

* WiFi access point required close to UV system



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



UV SYSTEMS JUST GOT A LOT SMARTER!

OPTIONAL EQUIPMENT MODULES

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.



- Subscription-based service based on the number of installed IoT Modules under your control
- View all units under your umbrella and their respective system status
- Filter system conditions and trouble spots to help you plan service routes
- Customizable software allows you to receive as many or few SMS/email notifications as needed, sent to up to 10 unique mobile numbers or email addresses



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

OPTIONAL EQUIPMENT MODULES

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	SHIPPING WEIGHT
MOD-SHERPA	North American (NEMA 1-15)	0.2 kg (0.5 lbs)
MOD-SHERPA2	European (CEE 7/7)	
MOD-SHERPA3	British (BS 1363)	
MOD-SHERPA4	Australian (AS/NZS 3112)	

Add "NT" to the model number to order without the transmitter (receiver ONLY) i.e. "MOD-SHERPA-NT"

OPTIONAL EQUIPMENT MODULES

ADDITIONAL MODULES

MODEL	IMAGE	DESCRIPTION	SHIPPING WEIGHT
REMOTE ALARM MODULE			
MOD-RAM		Allows for remote connection on all BLACKCOMB 5.1/6.1 products. This "dry contact" device allows for the installation of alarms, lights, PLC input, data loggers, etc. Simply plug the supplied cable into the IEP on the controller or another installed module. Three screw terminals (NO, NC & common) are supplied to connect the wire that leads to the receiving end of this dry contact.	0.2 kg (0.5 lbs)
4-20mA CONNECTION MODULE			
MOD-420		This device allows the transfer of the 4-20mA UV output signal to a remote device such as a data logger or computer from all BLACKCOMB 5.1/6.1 units. Simply plug the supplied cable into the IEP on the controller or another installed module. Two screw terminals are supplied to connect the wire that leads to the receiving end of the signal.	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 5.1/6.1 units (including H0), this device emulates both the UV Output and Lamp Counter on the BLACKCOMB controller. Additionally, alarm status for sensors, solenoids, 4-20 and remote alarm modules, and lamp failure can easily be shown via the emulator. Simply plug the emulator into the IEP on the controller, install the lamp key and restart the system.	0.2 kg (0.5 lbs)
MODULE SPLITTER			
MOD-SPLITTER		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.	0.2 kg (0.5 lbs)

OPTIONAL EQUIPMENT MODULES

TEMPERATURE MANAGEMENT SOLUTIONS

MODEL	IMAGE	DESCRIPTION	SHIPPING WEIGHT
COOLING FAN			



The LUMI-cool™ fan package is specifically designed to reduce the temperature of water passing through **BLACKCOMB-HO** UV 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.)



130014		North American (NEMA 1-15) 3½" fan package for HO systems. Includes fan, power source, and clamp.	1 kg (2.5 lbs)
130015		European (CEE 7/7) 3½" fan package for HO systems. Includes fan, power source, and clamp.	
130016		British (BS 1363) 3½" fan package for HO systems. Includes fan, power source, and clamp.	
130017		Australian/NZ (AS/NZS 3112) 3½" fan package for HO systems. Includes fan, power source, and clamp.	

TRV (TEMPERATURE RELIEF VALVE) (DUMP VALVE)

Allows for a small amount of water to be physically released from the UV unit to allow for cooling of the water. This is a fully automatic process that dumps water from the UV reactor at the exit port of the UV system when the water reaches a preset temperature of 95°F (TRV closes at 90°F). 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.

130031		½" FNPT	1 kg (2.5 lbs)
130032		¾" FNPT	
130033		1" FNPT	
130034		1½" FNPT	
310132		Replacement Thermistor	0.5 kg (1.1 lbs)

OPTIONAL EQUIPMENT MODULES

CUSTOMIZED DEALER PROGRAMMERS

LUMINOR EXCLUSIVE STAND OUT FROM THE COMPETITION

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

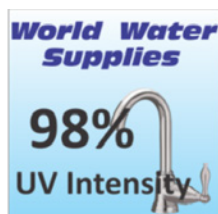
This screen can be customized with your unique company information, logo, phone numbers, QR codes, etc. Once the module is created, simply plug the programmer into the IEP (infinite expandability port) on the controller and restart the system. Once installed, your system will be reprogrammed with the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

FREE

Contact
factory for
details



SAMPLE SCREENS FOR CUSTOMIZED DEALER PROGRAMMER:



OPTIONAL EQUIPMENT MODULES

LANGUAGE PROGRAMMER MODULES

UV AROUND THE WORLD

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. Two minutes later, your system will be reprogrammed into the language of the applicable programming module. For other languages please contact factory.

MODEL	LANGUAGE	SHIPPING WEIGHT
130001-00	Italian	0.2 kg (0.5 lbs)
130002-00	Russian	
130005-00	French	
130006-00	Arabic	
130007-00	German	
130008-00	Mandarin	
130009-00	Portuguese	
130010-00	Spanish	
130011-00	English	
130035-00	Japanese	
130036-00	Dutch	
130081-00	Romanian	
130192-00	Icelandic	
130299-00	Norwegian	
130305-00	Swedish	



FREE

Contact
factory for
details

SAMPLE SCREENS FOR LANGUAGE PROGRAMMER:

Partes de mantenimiento
Lámpara:
RL-470
Manga de cuarzo:
RQ-470
Sensor UV:
RS-B2.5
Controlador:
RC-B56.01

Explore el código QR
para información

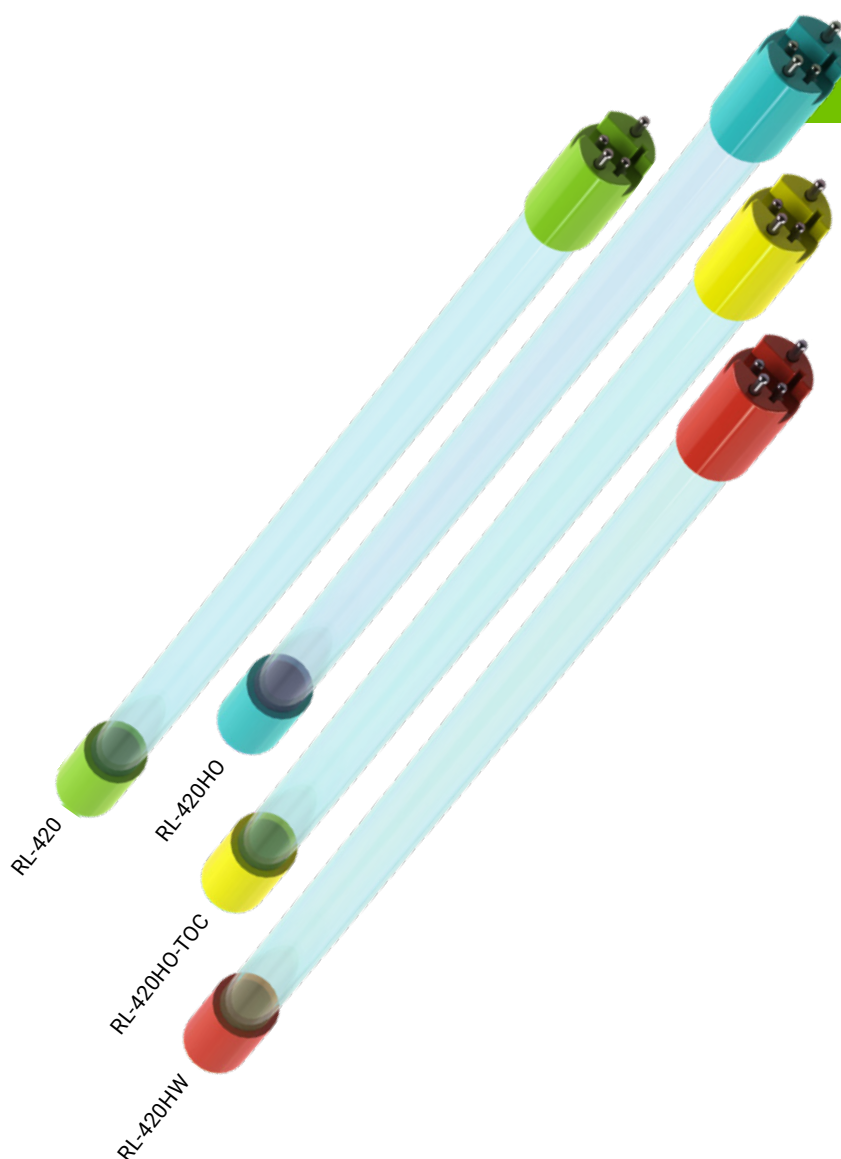


**ANULACIÓN
DE COLENOIDE**

**El agua puede
no ser potable**

LUMINOR™
ENVIRONMENTAL

375 **Dias**
Restantes de Duración



FEATURES



Proprietary ceramic lamp base ensures strength & integrity

Protected with a proprietary internal coating providing uniform UV output throughout the entire life of the lamp



Protect lamp sales with LIGHTLOCK™ technology (LB5/6, LBH5/6)

Colour coded, etched with part numbers, and includes replacement o-ring



Protected with a full one-year, no-hassle replacement warranty

REPLACEMENT LAMPS SINGLES AND BULK

MODEL	WHERE USED	DIMENSIONS (base face to base face)	LAMP WATTS
Low pressure lamps for general disinfection (254 nm output) – GREEN base: 9,000 hour life			
RL-210	LB4/5/6-02X	8.3" (210mm)	8
RL-290	LB4/5/6-03X	11.4" (290mm)	15
RL-420	All rack-mount, 8 gpm systems	16.5" (420mm)	20
RL-470	LB4/5/6-06X	18.5" (470mm)	22
RL-820	LB4/5/6-10X	32.3" (820mm)	39
RL-850	LB4/5/6-20X	33.5" (850mm)	42
RL-999	LB4/5/6-15X	39.4" (999mm)	50
Low pressure, high-output (LPHO) lamps for general disinfection (254 nm output) – BLUE base: 10,000 hour life			
RL-210HO	LBH4/5/6-05X	8.3" (210mm)	18
RL-330HO	LBH4/5/6-10X	13.0" (330mm)	34
RL-420HO	LBH4/5/6-15X and all rack-mount, 15 gpm systems	16.5" (420mm)	45
RL-600HO	LBH4/5/6-25X	23.6" (600mm)	67
RL-950HO	LBH4/5/6-40X	37.4" (950mm)	101
LPHO lamps for TOC reduction disinfection (185 & 254nm output) – YELLOW base, 10,000 hour life			
RL-290-TOC*	LB4-031-TOC ONLY	11.4" (290mm)	34
RL-420HO-TOC	LBH4/5/6-15X-TOC	16.5" (420mm)	45
RL-600HO-TOC	LBH4/5/6-25X-TOC	23.6" (600mm)	67
RL-950HO-TOC	LBH4/5/6-40X-TOC	37.4" (950mm)	101
Low pressure, high-output lamps for HOT WATER disinfection (254 nm output) – RED base, 10,000 hour life			
RL-330HW	LBH4/5/6-10X-HW	13.0" (330mm)	34
RL-420HW	LBH4/5/6-15X-HW	16.5" (420mm)	45
RL-600HW	LBH4/5/6-25X-HW	23.6" (600mm)	67
RL-950HW	LBH4/5/6-40X-HW	37.4" (950mm)	101

All replacement lamps are also available in **12-packs** or **30-bulk**. Use the appropriate suffix when ordering i.e. "**RL-210-12PK**" or "**RL-420HO-30BK**".
All replacement single lamps have a shipping weight of 0.2kg (0.5lbs).

*9,000 hour life



FEATURES



All LUMINOR sleeves are manufactured with pure GE214 quartz (or equivalent)

Fire polished ends eliminate stress cracking



Dimensionally marked for easy field identification



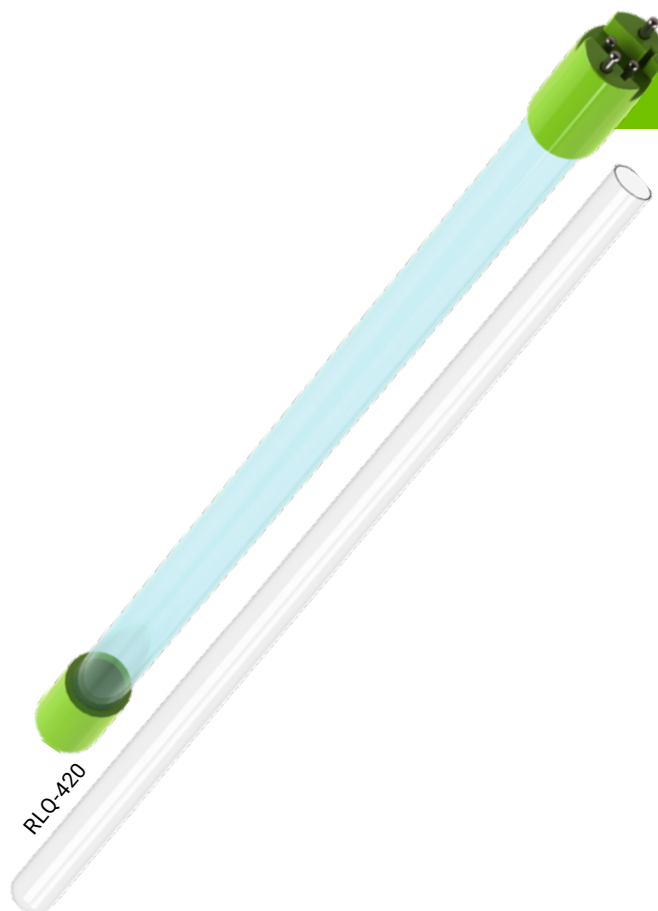
Ships with free replacement o-rings

REPLACEMENT QUARTZ SLEEVES 1 OR 12PK

MODEL	WHERE USED	DIMENSIONS (base face to base face)
RQ-210	LB4/5/6-02X, LBH4/5/6-05X	10.1" (256 mm)
RQ-290	LB4/5/6-03X	13.2" (336mm)
RQ-330	LBH4/5/6-10X	14.8" (376mm)
RQ-420	LBH4/5/6-15X, LB4/5/6-08X, and all rack-mount systems	18.3" (466mm)
RQ-470	LB4/5/6-06X	20.3" (516mm)
RQ-600	LBH4/5/6-25X	25.4" (646mm)
RQ-820	LB4/5/6-10X	34.1" (866mm)
RQ-850	LB4/5/6-20X	35.4" (900mm)
RQ-950	LBH4/5/6-40X	39.2" (996mm)
RQ-999	LB4/5/6-15X	41.2" (1046mm)

All replacement quartz sleeves available in **12-packs**. Use the appropriate suffix when ordering i.e. "**RQ-210-12PK**"

All replacement single quartz sleeves have a shipping weight of 0.2kg (0.5lbs).



FEATURES



Proprietary ceramic lamp base ensures strength & integrity

Protected with proprietary internal coating providing uniform UV output throughout lamp life

Sleeves are manufactured with pure GE214 quartz (or equivalent)



Protect lamp sales with LIGHTLOCK™ technology (LB5/6, LBH5/6)

Contain less than 15 mg of mercury to meet the U.S. TCLP compliance regulations

Fire polished quartz sleeve ends eliminate stress cracking



Protected with a full one-year, no-hassle replacement warranty

Colour coded lamps, etched with part numbers, and includes replacement o-ring

Sleeves are dimensionally marked for easy field identification

REPLACEMENT LAMP / SLEEVE COMBOS

MODEL	WHERE USED	DIMENSIONS (base face to base face)		LAMP WATTS
		LAMP	SLEEVE	
RLQ-210	LB4/5/6-02X	8.3" (210mm)	10.1" (256mm)	8
RLQ-290	LB4/5/6-03X	11.4" (290mm)	13.2" (336mm)	15
RLQ-420	All rack-mount, 8 gpm systems	16.5" (420mm)	18.3" (466mm)	20
RLQ-470	LB4/5/6-06X	18.5" (470mm)	20.3" (516mm)	22
RLQ-820	LB4/5/6-10X	32.3" (820mm)	34.1" (866mm)	39
RLQ-850	LB4/5/6-20X	33.5" (850mm)	35.4" (900mm)	42
RLQ-999	LB4/5/6-15X	39.4" (1000mm)	41.2" (1046mm)	50
RLQ-210HO	LBH4/5/6-05X	8.3" (210mm)	10.1" (256mm)	18
RLQ-330HO	LBH4/5/6-10X	13" (330mm)	14.8" (376mm)	34
RLQ-420HO	LBH4/5/6-15X, and all rack-mount, 15 gpm systems	16.5" (420mm)	18.3" (466mm)	45
RLQ-600HO	LBH4/5/6-25X	23.6" (600mm)	25.4" (646mm)	67
RLQ-950HO	LBH4/5/6-40X	37.4" (950mm)	39.2" (996mm)	101

All replacement lamp/sleeve combos have a shipping weight of 0.5kg (1lbs).



RCHO-56.12

FEATURES



Features a fully potted ballast for enhanced heat dissipation



IEP (infinite expandability port) for future upgrades & options (5/6 series only)

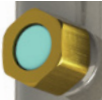


Protected with a full three-year, no-hassle replacement warranty

REPLACEMENT BALLASTS / CONTROLLERS

COMPATIBILITY	MODEL	IMAGE	PLUG	ELECTRICAL	SHIPPING WEIGHT
Vending Units	RC-B4.0V		Terminal Blocks	90-265V/ 50-60Hz.	0.75 kg (1.5 lbs)
BLACKCOMB SO 4.1	RC-B4.01		North American (NEMA 5-15)	90-265V/ 50-60Hz.	0.75 kg (1.5 lbs)
	RC-B4.02		European (CEE 7/7)		
	RC-B4.03		British Standard (BS 1363)		
	RC-B4.04		Australian (AS/NZS 3112)		
BLACKCOMB SO 5.1 / 6.1	RC-B56.01		North American (NEMA 5-15)	90-265V/ 50-60Hz.	1 kg (2.5 lbs)
	RC-B56.02		European (CEE 7/7)		
	RC-B56.03		British Standard (BS 1363)		
	RC-B56.04		Australian (AS/NZS 3112)		
12V DC BLACKCOMB SO 5.1 / 6.1	RC-B56.12V		Bare Leads	12V DC	
BLACKCOMB- HO 4.1	RCHO-4.12		IEC (sold separately)	90-265V/ 50-60Hz.	1.5 kg (3 lbs)
BLACKCOMB HO 5.1 / 6.1	RCHO-56.12		IEC (sold separately)	90-265V/ 50-60Hz.	1.5 kg (3 lbs)

MISCELLANEOUS PARTS AND REPLACEMENTS

PART #	IMAGE	DESCRIPTION
300038		O-ring for BLACKCOMB gland nuts (320006)
310120		O-ring 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" (<i>plugs, o-rings, springs, clamps, digital manual QR code, ground screw</i>)
510007	—	Parts kit for all 2.5" reactors (<i>nut, o-ring, spring & clamps</i>)
510008	—	Parts kit for all 3.5" reactors (<i>nut, o-ring, spring & clamps</i>)
510029	—	Parts kit for all 2.5" NSF reactors (<i>nut, o-ring, spring & clamps</i>)
510030	—	Parts kit for all 3.5" NSF reactors (<i>nut, o-ring, spring & clamps</i>)
310039		Quartz sleeve spring for all BLACKCOMB 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)
310211		Splash Cover

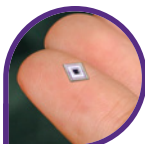


FEATURES



99% effective
disinfection*

Suitable for residential, appliance, food service, marine, RV, medical, disaster relief, and other point-of-use applications



5,000 hour LED life

Water flow detection provides on-demand disinfection, low energy use & prevents heat build-up



Proven colour screen interface as found on other LUMINOR systems

Includes IEP for expansion modules

Status LED indicates power, flow, LED life and alarms (GUV-4S)

GLACIER POU UVC LED

SEE FULL SPECIFICATIONS ON PAGE 71

FLOW RATE 30mJ/cm² @ 95% UVT	MODEL	DISPLAY	EXPANSION?	INSTALLATION DIMENSIONS
0.6 GPM 2.4 lpm	GUV-5S	Colour Screen Interface	Includes IEP Port for Expansion Modules	400g (1 lb)
0.6 GPM 2.4 lpm	GUV-4S	Multi-State Status LED	No	

Available with optional 12V power (power cable part # 255050).

GLACIER UV LED WATER BOTTLE

LUMINOR's Glacier UV LED Water Bottle 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**
-  **USB-C charging with long lasting battery**
-  **Cleaning cycle mode to keep your bottle smelling fresh + clean**
-  **UV light renders microorganisms 'inactive', prohibiting reproduction**

	GUV-B1
CAPACITY	600 mL
UVC WAVELENGTH	275nm
DISINFECTION TIME	90 seconds
CHARGE TIME	2.5 hours
REPLACEMENT GASKET	GUV-G
SHIPPING WEIGHT	0.4 kg. (0.8 lbs.)

*LUMINOR GLACIER systems are proven by independent lab testing to show a 99% reduction (2-log) of the MS-2 coliphage challenge microorganism when operated at 0.4 gpm.



FEATURES



Weatherproof lamp monitor with lamp life indicators and warnings

316L stainless steel chamber for maximum reflective disinfection

Vertical or horizontal orientation (vertical recommended)



Tool-free lamp changes for simple maintenance

Suitable for outdoor installations (UL 1563 and CSA 22.2 NO 218.1)

No moving parts



Protect lamp sales with LIGHTLOCK™ technology

Reliable, proprietary low pressure high-output UV lamps (10,000 hour)

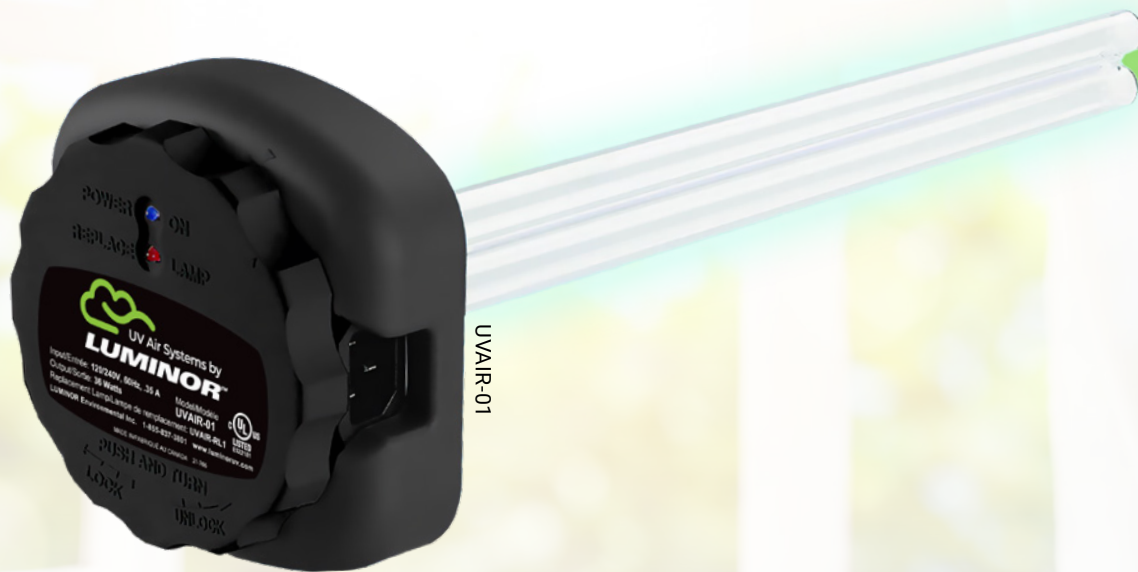
Drain port/zinc anode combination for easy winterization and service

POOL UV PROTECTION FOR POOLS & SPAS

SEE FULL SPECIFICATIONS ON PAGE 72

FLOW RATE 30mJ/cm² @ 95% UVT	MODEL	PORTS	LAMP	SLEEVE	SHIPPING WEIGHT
45 GPM 170 lpm 10.2 m³/hr	POOLUV45	2" MNPT	PUV-600	RQ-650	15 kg (33 lbs)
75 GPM 284 lpm 17.03 m³/hr	POOLUV75	2" MNPT	PUV-900	RQ-900	16.7 kg (36.8 lbs)

REPLACEMENT PART KITS	DESCRIPTION
PUV-600	Replacement lamp for POOLUV45
PUV-Q600	Replacement quartz sleeve for POOLUV45
PUV-900	Replacement lamp for POOLUV75
PUV-Q900	Replacement quartz sleeve for POOLUV75
320058	Gland Nut, POOLUV
310249	Zinc Anode
310039	Sleeve Spring
510071	Pool Parts Kit (sealant, pressure test plug, spring, o-ring)
RP-UNIONS	Replacement Unions Kit
RP-ORING-WELD	Replacement Weldment O-Rings Kit
RP-TOP	Top Flange Kit
RP-LOCATOR	Bottom Locator Kit
RP-BOTTOM	Bottom Flange Kit
RP-WELD-45	Weldment Assembly Kit - POOLUV45
RP-WELD-75	Weldment Assembly Kit - POOLUV75
RC-VK.01	Replacement Controller Kit



FEATURES



Energy efficient
electronic ballast



Built-in lamp
replacement indicator
(replace annually for
optimal performance)



Alleviates allergy and
asthma symptoms

Safety features prevent accidental
exposure to UV light

Safely purifies up to 3,500 sq. ft.

Compact and easy to install in less
than 15 minutes

Lamps produce no ozone

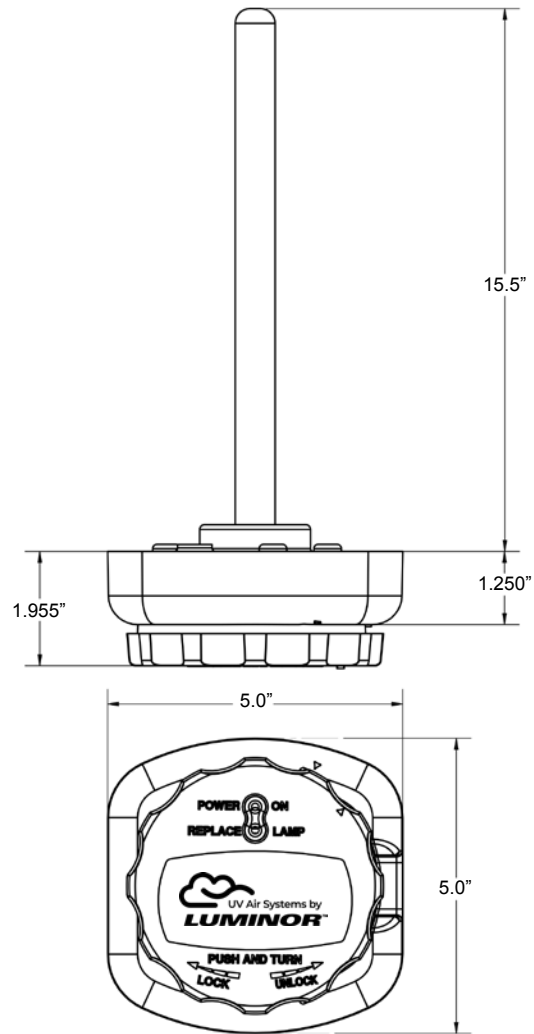
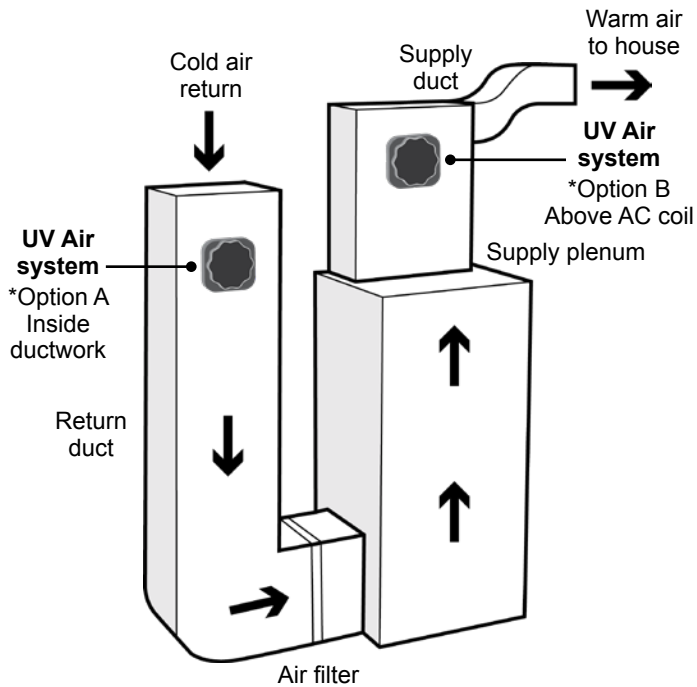
Kills germs that cause colds
and flus

Integrated UV lamp only needs
replacement once per year

UV AIR FOR INDOOR AIR QUALITY

SEE FULL SPECIFICATIONS ON PAGE 73

PURIFIES UP TO	MODEL	INPUT POWER	REPL. LAMP	OPERATING TEMP.	OPERATING HUMIDITY	SHIPPING WEIGHT
3,500 SQ. FT. 325 m ²	UVAIR-01	120-240V 50-60Hz	UVAIR-RL1	-5°C to 75°C	90%	1 kg (2.2 lbs)



**COMING
SOON**

**Available with
Black Control Panel**



NEW

**Available with
4" ASME 150 flange**
(LR-175 only)

FEATURES



*Built-in sensor port for
future upgradeability
(doubles as glow plug)*

*Low pressure amalgam UV lamps
for maximum power density and
consistent UV output*

*316L stainless steel electropolished
reactors with fixed mounting legs*



*Flexible vertical or horizontal
installation with minimal footprint*

**Updated optional cooling fan for
single-lamp systems (4" chamber)**

RAINIER 6.0 units
include 254 nm Teflon®
based UV sensor,
output-ready



*Modular control panel
with LED display for
important data*

*Amalgam lamps offer uniform
output in both cold and hot
water applications*

RAINIER COMMERCIAL / INDUSTRIAL

SEE FULL SPECIFICATIONS ON PAGE 74

	FLOW RATE	MODEL	PORT	LAMP	SLEEVE
NORMAL 30mJ/cm ² @ 95% UVT	35 GPM 132 lpm	LR5/6-35X	1½" MNPT	RL-500A	RQ-500
	55 GPM 208 lpm	LR5/6-55X	2" MNPT	RL-720A	RQ-720
	85 GPM 322 lpm	LR5/6-85X	2" MNPT	RL-1000A	RQ-1000
	140 GPM 530 lpm	LR5/6-110X	2½" MNPT	RL-720A (x2)	RQ-720 (x2)
	180 GPM 681 lpm	LR5/6-140X	3" MNPT	RL-843A (x2)	RQ-843 (x2)
	215 GPM 814 lpm	LR5/6-175X	4" ASME 150 Flange	RL-1000A (x2)	RQ-1000 (x2)
HOT WATER 30mJ/cm ² @ 75% UVT	22 GPM 83 lpm	LR5/6-35X	1½" MNPT	RL-500A	RQ-500
	38 GPM 144 lpm	LR5/6-55X	2" MNPT	RL-720A	RQ-720
	55 GPM 193 lpm	LR5/6-85X	2" MNPT	RL-1000A	RQ-1000
	75 GPM 284 lpm	LR5/6-110X	2½" MNPT	RL-720A (x2)	RQ-720 (x2)
	95 GPM 360 lpm	LR5/6-140X	3" MNPT	RL-843A (x2)	RQ-843 (x2)
	115 GPM 435 lpm	LR5/6-175X	4" ASME 150 Flange	RL-1000A (x2)	RQ-1000 (x2)
LOW UVT 30mJ/cm ² @ 50% UVT	14 GPM 53 lpm	LR5/6 -35X-50	1½" MNPT	RL-500A	RQ-500
	23 GPM 87 lpm	LR5/6 -55X-50	2" MNPT	RL-720A	RQ-720
	35 GPM 132 lpm	LR5/6 -85X-50	2" MNPT	RL-1000A	RQ-1000
	39 GPM 148 lpm	LR5/6 -110X-50	2½" MNPT	RL-720A (x2)	RQ-720 (x2)
	49 GPM 185 lpm	LR5/6 -140X-50	3" MNPT	RL-843A (x2)	RQ-843 (x2)
	60 GPM 227 lpm	LR5/6 -175X-50	4" ASME 150 Flange	RL-1000A (x2)	RQ-1000 (x2)
TOC 150mJ/cm ² @ 98% UVT	7 GPM 26 lpm	LR5/6 -35X-TOC	1½" MNPT	RL-500A-TOC	RQ-500
	12 GPM 44 lpm	LR5/6 -55X-TOC	2" MNPT	RL-720A-TOC	RQ-720
	17 GPM 64 lpm	LR5/6 -85X-TOC	2" MNPT	RL-1000A-TOC	RQ-1000
	31 GPM 117 lpm	LR5/6 -110X-TOC	2½" MNPT	RL-720A -TOC (x2)	RQ-720 (x2)
	40 GPM 151 lpm	LR5/6 -140X-TOC	3" MNPT	RL-843A -TOC (x2)	RQ-843 (x2)
	48 GPM 182 lpm	LR5/6 -175X-TOC	4" ASME 150 Flange	RL-1000A -TOC (x2)	RQ-1000 (x2)

Replace "X" in the model number with the applicable power cord:

"1" for North American NEMA 5-15 IEC Plug, 120V i.e. "LR5-351"

"2" for European CEE 7/7 3-wire IEC Plug i.e. "LR5-352"

"3" for British Standard BS 1363 3-wire IEC Plug i.e. "LR5-353"

"4" for Australia/NZ 3112 3-wire IEC Plug i.e. "LR5-354"

"5" for North American NEMA 6-15 IEC Plug, 230V i.e. "LR5-355" (standard configuration unless otherwise stated)



FEATURES



Up to 900+ GPM flow rates

Low pressure amalgam coated UV lamps for maximum power density and consistent UV output

Amalgam lamps offer uniform output in both cold and hot water applications



Modular stainless steel control panel with LED display for important alarms and data

316L stainless steel reactor with flanged end plate for reactor service, and drain ports

Designed & manufactured to ASME pressure vessel standards



EVEREST 6.0 units include 254 nm Teflon[®] based UV sensor, output-ready

Flexible vertical or horizontal installation with small installation footprint

Constant current electronic ballast in a NEMA 12 (dripping/light splashing) case

EVEREST INDUSTRIAL / MUNICIPAL

SEE FULL SPECIFICATIONS ON PAGE 75

	FLOW RATE	MODEL	PORTS	LAMP	SLEEVE
NORMAL 30mJ/cm ² @ 95% UVT	530 GPM 2013 lpm	LE5-A42 LE6-A42	6" ASME 150 Flange	RL-1000A (x4)	RQ-K2 (x4)
	780 GPM 2957 lpm	LE5-A62 LE6-A62		RL-1000A (x6)	RQ-K2 (x6)
	915 GPM* 3468 lpm	LE5-A72 LE6-A72		RL-1000A (x7)	RQ-K2 (x7)
HOT WATER 30mJ/cm ² @ 75% UVT	230 GPM 870 lpm	LE5-A42-HW LE6-A42-HW	6" ASME 150 Flange	RL-1000A (x4)	RQ-K2 (x4)
	341 GPM 1292 lpm	LE5-A62-HW LE6-A62-HW		RL-1000A (x6)	RQ-K2 (x6)
	404 GPM 1530 lpm	LE5-A72-HW LE6-A72-HW		RL-1000A (x7)	RQ-K2 (x7)
LOW UVT 30mJ/cm ² @ 50% UVT	119 GPM 452 lpm	LE6-A42-50	6" ASME 150 Flange	RL-1000A (x4)	RQ-K2 (x4)
	179 GPM 679 lpm	LE6-A62-50		RL-1000A (x6)	RQ-K2 (x6)
	210 GPM 796 lpm	LE6-A72-50		RL-1000A (x7)	RQ-K2 (x7)
TOC 150mJ/cm ² @ 98% UVT	122 GPM 462 lpm	LE5-A42-TOC LE6-A42-TOC	6" ASME 150 Flange	RL-1000A-TOC (x4)	RQ-K2 (x4)
	179 GPM 679 lpm	LE5-A62-TOC LE6-A62-TOC		RL-1000A-TOC (x6)	RQ-K2 (x6)
	209 GPM 793 lpm	LE5-A72-TOC LE6-A72-TOC		RL-1000A-TOC (x7)	RQ-K2 (x7)

Electrical on ALL EVEREST units is 200-240V ±10% 50-60Hz. 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.

*Based on flow velocity of 8.2 ft/sec (2.5m/sec), flow rates limited to **883 GPM**.

COMMERCIAL / INDUSTRIAL

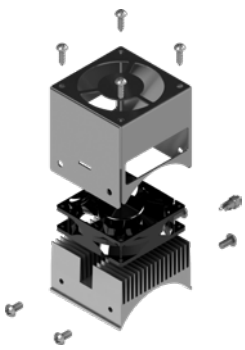
REPLACEMENT LAMPS & QUARTZ SLEEVES

MODEL	WHERE USED	DIMENSIONS (base face to base face)	LAMP WATTS
Low pressure lamps for general disinfection (254 nm output) – BLACK base: 12,000 hour life			
RL-500A	LR5/6-35	19.7" (500mm)	104
RL-720A	LR5/6-55, LR5/6-110 and all variants	28.4" (720mm)	152
RL-843A	LR5/6-140 and all variants	33.2" (843mm)	172
RL-1000A	LR5/6-85, LR5/6-175, and all EVEREST products	39.4" (1000mm)	207
Low pressure lamps for TOC reduction (185 & 254nm output) – BLACK base: 12,000 hour life			
RL-500A-TOC	LR5/6-35-TOC	19.7" (500 mm)	104
RL-720A-TOC	LR5/6-55-TOC, LR5/6-110-TOC	28.4" (720 mm)	152
RL-843A-TOC	LR5/6-140-TOC	33.2" (843 mm)	172
RL-1000A-TOC	LR5/6-85-TOC, LR5/6-175-TOC, and all EVEREST TOC products	39.4" (1000 mm)	207
Quartz Sleeves			
RQ-500	LR5/6-35	25" (635 mm)	
RQ-720	LR5/6-55, LR5/6-110	33.6" (855 mm)	
RQ-843	LR5/6-140	38.5" (978 mm)	
RQ-1000	LR5/6-85, LR5/6-175	44.7" (1135 mm)	
RQ-K2	All EVEREST products	47.2" (1200 mm)	

COMMERCIAL

COMMERCIAL / INDUSTRIAL

TEMPERATURE MANAGEMENT SOLUTIONS

MODEL	IMAGE	DESCRIPTION	SHIPPING WEIGHT
NEW	The LUMI-cool™ fan package is specifically designed to reduce the temperature of water passing through the UV systems. The fan is powered independently from the UV system and is designed to run continuously for use on the RAINIER UV disinfection system. 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		North American (NEMA 5-15) 4" fan package for RAINIER. Includes fan, power source, and clamp.	1 kg (2.5 lbs)
130019		European (CEE 7/7) 4" fan package for RAINIER. Includes fan, power source, and clamp.	
130020		British (BS 1363) 4" fan package for RAINIER. Includes fan, power source, and clamp.	
130021		Australian/NZ (AS/NZS 3112) 4" fan package for RAINIER. Includes fan, power source, and clamp.	

COMMERCIAL

REPLACEMENT BALLASTS / CIRCUIT BOARDS

MODEL	IMAGE	DESCRIPTION	SHIPPING WEIGHT
RB-R1.12		For all 120-240V RAINIER products. (LR5/6-35, LR5/6-55, LR5/6-85, LR5/6-110, LR5/6-140, LR5/6-175)	0.5 kg (1 lbs)
RB-E1		For all EVEREST products, 200-240V ±10% 50-60Hz. (440W, 2.0A) (LE5-A42, LE6-A42, LE5-A62, LE6-A62, LE5-A72, LE6-A72)	0.75 kg (1.5 lbs)
RB-R1.2		<i>(Replacement part only for systems manufactured before May 2024)</i> For all single-lamp RAINIER 230V ±10%/45-65Hz. (440W, 2.0A). (LR5/6-35, LR5/6-55, LR5/6-85)	0.6 kg (1.3 lbs)
RB-R2.2		<i>(Replacement part only for systems manufactured before March 2024)</i> For all two lamp RAINIER products, 230V ±10%/45-65Hz. (440W, 2.0A) (LR5/6-110, LR5/6-140, LR5/6-175)	0.75 kg (1.5 lbs)
RB-K22		<i>(Replacement part only)</i> 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 kg (2.2 lbs)
CONTROL BOARDS	RCB-R1	For all RAINIER 1-lamp systems (LR5/6-35, LR5/6-55, LR5/6-85)	0.5 kg (1 lbs)
	RCB-R2	For all RAINIER 2-lamp systems (LR5/6-110, LR5/6-140, LR5/6-175)	
	210019	<i>(Replacement part only)</i> For all K2 commercial/industrial/municipal products	

Control Board adapter kit required for version 1.3 or earlier. Contact factory for details.

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

REPLACEMENT SENSORS

MODEL	IMAGE	DESCRIPTION	SHIPPING WEIGHT
RS-RUV		For all RAINIER 5/6 products (LR5/6) and all variants.	0.2 kg (0.5 lbs)
RS-EUV		For all EVEREST products (LE5/6) and all variants.	
RS-KUV		For all K2 products (LK6) and all variants.	
RS-RUV-ADAPTOR	For RAINIER systems manufactured before March 2024 (single lamp) or May 2024 (double lamp), an adaptor is required.		0.4 kg (0.9 lbs)

MISCELLANEOUS PARTS AND REPLACEMENTS

MODEL	DESCRIPTION	SHIPPING WEIGHT
300046	Gland nut for all RAINIER and EVEREST/K2 systems (open end)	0.2 kg (0.5 lbs)
310042	Gland nut for all RAINIER and EVEREST/K2 systems (closed end)	
300124	O-ring for RAINIER & EVEREST/K2 gland nuts (300046/310042)	
301090	O-ring for EVEREST Chamber End-Plate	
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 req. per sleeve for RAINIER, 3 req. per sleeve for EVEREST/K2)	
260004	IEC power cord, North American 120V, 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 230V, NEMA 6-15	
210010	Remote monitoring cable package for RAINIER : outputs dry contact, 4-20mA, remote control through 10 m (33') of cable.	



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 LUMINOR controller technology!

- Conversion kits
- Competitive replacement lamps
- Competitive replacement sleeves

UVMax® (VIQUA®)



UVMax® (VIQUA®)
Compatible
Replacement UV Lamp



UVMax® (VIQUA®)
Conversion Nut

Sterilight® (VIQUA®)



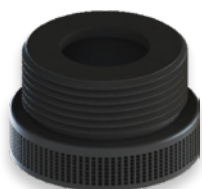
Sterilight® (VIQUA®)
Compatible
Replacement UV Lamp



Sterilight® (VIQUA®)
Conversion Nut



UPGRADE-IT STERILIGHT®



Purchasing these Conversion Kits will allow you to use LUMINOR's **BLACKCOMB** controller along with LUMINOR's true proprietary UV lamps and quartz sleeves. Conversion kit includes an adapter, controller, o-ring, lamp and quartz sleeve. You keep your existing 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** digital LED controller (4.1)
- Full component warranty (3-years on controller, 1-year on lamps)
- True proprietary UV lamps

STERILIGHT® MODEL	LUMINOR PART #	CONVERSION KIT INCLUDES					ELECTRICAL
		CONTROLLER	LAMP	SLEEVE	ADAPTER	GLAND NUT	
S1Q-PA	150000	RC-B4.01	RL-290	350073	310066	320006	90-265V/50-60Hz.
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®

UVMax® MODEL	LUMINOR PART #	CONVERSION KIT INCLUDES					ELECTRICAL
		CONTROLLER	LAMP	SLEEVE	ADAPTER	GLAND NUT	
UVMMax C, C4, D	150015	RCHO-4.12	140178	350044	310131	320006	90-265V/50-60Hz.
UVMMax E, E4	150016	RCHO-4.12	140179	350045	310131	320006	90-265V/50-60Hz.
UVMMax F, F4	150017	RCHO-4.12	140180	350046	310131	320006	90-265V/50-60Hz.

All Upgrade-It Conversion Kits have a shipping weight of 2.3kg (5 lbs).

SAVE-IT STERILIGHT® (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 made to the exact same stringent manufacturing protocols as our standard LUMINOR lamps and are backed by the EXACT same factory warranty.

STERILIGHT® MODEL	LUMINOR PART #	DIMENSIONS (base face to base face)	LAMP LIFE (HOURS)
S212RL	140140	229mm (9")	9,000
S287RL	140141	302mm (11.9")	9,000
S330RL	140142	343mm (13.5")	9,000
S463RL	140108	479mm (18.9")	9,000
S810RL	140109	826mm (32.5")	9,000
S36RL	140110	857mm (33.7")	9,000
S150RL-HO	140144	250mm (9.8")	10,000
S200RL-HO	140145	300mm (11.8")	10,000
S320RL-HO	140147	420mm (16.5")	10,000
S410RL-HO	140148	510mm (20.1")	10,000
S600RL-HO	140150	700mm (27.6")	10,000
S740RL-HO	140151	840mm (33.1")	10,000
S950RL-HO	140152	950mm (37.4")	10,000

(All Sterilight® lamps come with replacement o-rings)

SAVE-IT TROJAN UVMa^x® (REPLACEMENT UV LAMPS)

UVMa ^x ® MODEL	LUMINOR PART #	DIMENSIONS (base face to base face)	LAMP LIFE (HOURS)
602803 (Model A)	140159	279mm (11")	9,000
602804 (Model B, B4)	140160	326mm (8.9")	10,000
602805 (Model C, C4, D/Plus, D4/Plus)	140111	389mm (15.3")	10,000
602806 (Model E/Plus, E4/Plus, PRO7)	140112	631mm (24.8")	10,000
602807 (Model F/Plus, F4/Plus, PRO15)	140113	986mm (38.8")	10,000
602854 (Model PRO10)	140161	457mm (18")	20,000
602855 (Model PRO20)	140162	686mm (27")	20,000
602856 (Model J/Plus, K/Plus, PRO30/50, S80, SM80, SV50)	140163	1080mm (42.5")	20,000

(All UVMa^x® lamps come with replacement o-rings)

All replacement lamps are available in **12-packs** or **30-bulk**. Use the appropriate suffix when ordering i.e. "**140159-12PK**" or "**140159-30BK**".

All Save-It Replacement Lamps have a shipping weight of 0.5kg (1 lbs).

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® and Trojan UVMa^x® are registered trademarks of VIQUA, a Trojan Technologies Company.



**SWITCHING TO LUMINOR'S UV
LAMPS ENSURES PRODUCT
QUALITY & INTEGRITY**

SAVE-IT STERILIGHT® (REPLACEMENT QUARTZ SLEEVES)

STERILIGHT® SLEEVE	LUMINOR PART #	DIMENSIONS / COMPATIBILITY
QS-200	350020	20 X 23 X 332 mm, DOMED (SPV-200, SP200-HO, SPV-3.5, SC-200, SCM-200)
QS-212	350026	20 X 23 X 254 mm, OPEN (SQ-PA, VT1)
QS-320	350021	20 X 23 X 452 mm, DOMED (SC-320, SCM-320, SP320-HO, SPV-6)
QS-410	350022	20 X 23 X 542 mm, DOMED (SC-410, SCM-410, SPV-410, SP410-HO, SPV-8)
QSO-410	350086	20 X 23 X 540 mm, OPEN (S410RL-HO, SC-410-A)
QS-600	350023	20 X 23 X 732 mm, DOMED (SC-600, SCM-600, SPV-600, SP600-HO, SPV-12)
QS-740	350024	20 X 23 X 872 mm, DOMED (SC-740, SCM-740, SPV-740, SP740-HO, SPV-15)
QS-950	350025	20 X 23 X 1082 mm, DOMED (SPV-950, SP950-HO, SPV-20)
QS-001	350073	20 X 23 X 330 mm, OPEN (S1Q-PA, VH200, SSM-14)
QS-330	350074	20 X 23 X 375 mm, OPEN (S2Q-PA, VT4, SSM-17)
QS-463	350041	20 X 23 X 502 mm, OPEN (S5Q-PA, SSM-24)
QS-810	350042	20 X 23 X 845 mm, OPEN (S8Q-PA, SSM-37)
QS-012	350043	20 X 23 X 889 mm, OPEN (S12Q, S24Q, S40Q, SSM-39, SUV & SHF-140)

SAVE-IT TROJAN UVM_{ax}[®] (REPLACEMENT QUARTZ SLEEVES)

UVM _{ax} [®] SLEEVE	LUMINOR PART #	DIMENSIONS / COMPATIBILITY
602730	350071	18 X 20.5 X 231 mm, DOMED (A)
602731	350072	18 X 20.5 X 291 mm DOMED (B/B4),
602732	350044	18 X 20.5 X 391 mm, DOMED (C/C4/D/D4/ D Plus/D4 Plus)
602733	350045	18 X 20.5 X 632 mm, DOMED (E/E4/E Plus/E4 Plus & Pro 7)
602734	350046	18 X 20.5 X 993 mm, DOMED (F/F4/F Plus/F4 Plus & Pro 15)
602974	350057	38 X 42 X 445 mm, OPEN (Pro 10, G/Plus)
602975	350058	38 X 42 X 687 mm, OPEN (Pro 20, H/Plus)
602976	350059	38 X 42 X 930 mm, OPEN (Pro 30, Pro 50, J/Plus, K/Plus)

All replacement sleeves are available in **12-packs** or **24-bulk**. Use the appropriate suffix when ordering i.e. "**350071-12PK**" or "**350071-24BK**".

All Save-It Replacement Quartz Sleeves have a shipping weight of 0.5kg (1 lbs).

NOTE: The quartz sleeves 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 quartz sleeve. Sterilight[®] and Trojan UVM_{ax}[®] are registered trademarks of VIQUA, a Trojan Technologies Company.

PRODUCT COMPARISON CHART

FLOW RATE	LUMINOR PART #	DESCRIPTION	VIQUA PART #	VIQUA FLOWRATE
3 GPM	LB4-031	Audible/visual indicators, ½" MNPT ports, 110V./50-60Hz.	S2Q-PA	3 GPM
6 GPM	LB4-061	Audible/visual indicators, ¾" MNPT ports, 110V./50-60Hz.	S5Q-PA	6 GPM
10 GPM	LB4-101	Audible/visual indicators, ¾" MNPT ports, 110V./50-60Hz.	S8Q-PA	10 GPM
20 GPM	LB4-201	Audible/visual indicators, 1" MNPT ports, 110V./50-60Hz.	VH-410	18 GPM
10 GPM	LB5-101	Colour display, audible warnings, ¾" MNPT ports, 110V./50-60Hz.	660089-R (D4 Premium)	12 GPM
20 GPM	LB5-201	Colour display, audible warnings, 1" MNPT ports, 110V./50-60Hz.	650682 (E4)	22 GPM
10 GPM	LB6-101	Colour display, audible warnings, UV monitor, ¾" MNPT ports, 110V./50-60Hz.	650695-R (D4+)	12 GPM
15 GPM	LB6-151	Colour display, audible warnings, UV monitor, 1" MNPT ports, 110V./50-60Hz.	650695-R (D4+)	12 GPM
20 GPM	LB6-201	Colour display, audible warnings UV monitor, 1" MNPT ports, 110V./50-60Hz.	650683 (E4+)	22 GPM
10 GPM	LBH4-101	Audible/visual indicators, 316L SS, ¾" MNPT ports, high output, 110-230V./50-60Hz.	VH-200	9 GPM
15 GPM	LBH4-151	Audible/visual indicators, 316L SS, 1" MNPT ports, high output, 110-230V./50-60Hz.	VH-410	18 GPM
40 GPM	LBH4-401	Audible/visual indicators, 316L SS, 1½" MNPT ports, high output, 110-230V./50-60Hz.	VP950	46 GPM
10 GPM	LBH5-101	Colour display, audible warnings, 316L SS, ¾" MNPT ports, high output, 110-230V./50-60Hz.	660089-R (D4 Premium)	12 GPM
25 GPM	LBH5-251	Colour display, audible warnings, 316L SS, 1" MNPT ports, high output, 110-230V./50-60Hz.	650682 (E4)	22 GPM
40 GPM	LBH5-401	Colour display, audible warnings, 316L SS, 1½" MNPT ports, high output, 110-230V./50-60Hz.	650686 (F4)	36 GPM
10 GPM	LBH6-101	Colour display, audible warnings, UV monitor, 316L SS, ¾" MNPT ports, high output, 110-230V./50-60Hz.	650695-R (D4+)	12 GPM
25 GPM	LBH6-251	Colour display, audible warnings, UV monitor, 316L SS, 1" MNPT ports, high output, 110-230V./50-60Hz.	650683 (E4+)	22 GPM
10 GPM	LBH6-251-50	LOW UVT system, as above	650638-R (E4-50+)	9 GPM
40 GPM	LBH6-401	Colour display, audible warnings, UV monitor, 316L SS, 1½" MNPT ports, high output, 110-230V./50-60Hz.	650687 (F4+)	36 GPM
17 GPM	LBH6-401-50	LOW UVT system, as above	650640-R (F4-50+)	15 GPM

EQUIPMENT SPECIFICATIONS

RACK MOUNT UV COMBO 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	—	—	high capacity carbon LC-20AC	—	high capacity carbon LC-20AC	high capacity carbon LC-20AC	5 micron sediment LC-20S	scale reduction LC-20WS
Filter Housing - 3	—	—	—	—	—	—	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							
Replacement Controller	RC-B4.01 (LB4) RC-B56.12 (LB5)			RCHO-4.12 (LBH4) RCHO-56.12 (LBH5)				
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	0.7-6.8 bar (10-100 psi)							
Operating Water Temperature	2-40° C (36-104° F)							
254nm UV Sensor	RS-B3.5 (LB5 only)			RSHO-B3.5 (LB5 only)				
Solenoid Output	MOD-SOL (LB5/LBH5 only)							
4-20 mA Output	MOD-420 (LB5/LBH5 only)							
Remote Alarm Output	MOD-RAM (LB5/LBH5 only)							
Lamp Status Indicator	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)

NSF STANDARD 55, CLASS A MULTI-USE UV

MODEL <i>(includes 12V variants)</i>	LB6-021A	LB6-031A	LB6-061A	LB6-101A	LB6-151A
NSF STANDARD 55, CLASS A (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	Included				
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT
Electrical	100-240V/50-60Hz. ±10% 12VDC for 12V Systems				
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
Replacement Controller	RC-B56.12				
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 Sensor	RS-B2.5V				
Solenoid Output	MOD-SOL				
4-20 mA Output	MOD-420				
Remote Alarm Output	MOD-RAM				
Temperature Management Valve	—	130031	130032		130033
Lamp Status Indicator	YES				
Shipping Weight	3.3 kg. (7.2 lbs.) 3 kg. (7 lbs.)	3.6 kg. (8 lbs.) 3 kg. (7 lbs.)	4.4 kg. (9.6 lbs.) 4.5 kg. (10 lbs.)	6.8 kg. (15.0 lbs.) 7 kg. (15 lbs.)	8.0 kg. (17.6 lbs.) 8 kg. (17 lbs.)

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. For further information on water quality, please visit our website at luminoruv.com and for a full NSF listing, please visit nsf.org.

EQUIPMENT SPECIFICATIONS

NSF STANDARD 55, CLASS A MULTI-USE UV

MODEL	LBH6-051A	LBH6-101A	LBH6-151A	LBH6-251A	LBH6-401A
NSF STANDARD 55, CLASS A (40 mJ/cm2 @ 70% UVT)	2.2 GPM 8.3 lpm 0.5 m³/hr	4.0 GPM 15.1 lpm 0.91 m³/hr	5.4 GPM 20.4 lpm 1.23 m³/hr	7.9 GPM 29.9 lpm 1.79 m³/hr	18.0 GPM 68.1 lpm 4.08 m³/hr
Flow Restrictor	Included				
Port Size	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1 ½" MNPT
Electrical	100-240V/50-60Hz. ±10% (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
Replacement Controller	RCHO-B56.12				
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 (36-149° F)				
254nm UV Sensor	RSHO-B3.5V				
Solenoid Output	MOD-SOL				
4-20 mA Output	MOD-420				
Remote Alarm Output	MOD-RAM				
Temperature Management Valve	130031	130032	130033		130034
Cooling Fan	130014				
Lamp Status Indicator	YES				
Shipping Weight	4.5 kg. (10 lbs.) 5 kg. (11 lbs.)	5.4 kg. (11.9 lbs.) 5 kg. (11 lbs.)	6.0 kg. (13.2 lbs.) 6 kg. (13 lbs.)	7.7 kg. (17 lbs.) 8 kg. (17 lbs.)	9.8 kg. (21.6 lbs.) 11 kg. (24 lbs.)

NSF STANDARD 55, CLASS B MULTI-USE UV

MODEL	LB5-021B LB6-021B	LB5-031B LB6-031B	LB5-061B LB6-061B	LB5-101B LB6-101B	LB5-151B LB6-151B
NSF STANDARD 55, CLASS B (16 mJ/cm2 @ 70% UVT)	2.9 GPM 11.0 lpm 0.66 m³/hr	5.2 GPM 19.7 lpm 1.18 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
Flow Restrictor	Included				
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT
Electrical	100-240V/50-60Hz ±10%				
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
Replacement Controller	RC-B56.12				
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 Sensor	RS-B2.5				
Solenoid Output	MOD-SOL				
4-20 mA Output	MOD-420				
Remote Alarm Output	MOD-RAM				
Temperature Management Valve	—	130031	130032		130033
Lamp Status Indicator	YES				
Shipping Weight	3.3 kg. (7.2 lbs.) 3 kg. (7 lbs.)	3.6 kg. (8 lbs.) 3 kg. (7 lbs.)	4.4 kg. (9.6 lbs.) 4.5 kg. (10 lbs.)	6.8 kg. (15.0 lbs.) 7 kg. (15 lbs.)	8.0 kg. (17.6 lbs.) 8 kg. (17 lbs.)

EQUIPMENT SPECIFICATIONS

NSF STANDARD 55, CLASS B MULTI-USE UV

MODEL	LBH5-051B LBH6-051B	LBH5-101B LBH6-101B	LBH5-151B LBH6-151B	LBH5-251B LBH6-251B	LBH5-401B LBH6-401B
NSF STANDARD 55, CLASS B (16 mJ/cm² @ 70% UVT)	5.4 GPM 20.4 lpm 1.22 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 105.9 lpm 6.35 m³/hr
Flow Restrictor	Included				
Port Size	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1 ½" MNPT
Electrical	100-240V/50-60Hz ±10% (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
Replacement Controller	RCHO-B56.12				
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 Sensor	RSHO-B3.5				
Solenoid Output	MOD-SOL				
4-20 mA Output	MOD-420				
Remote Alarm Output	MOD-RAM				
Temperature Management Valve	130031	130032	130033		130034
Cooling Fan	130014				
Lamp Status Indicator	YES				
Shipping Weight	4.5 kg. (10 lbs.) 5 kg. (11 lbs.)	5.4 kg. (11.9 lbs.) 5 kg. (11 lbs.)	6.0 kg. (13.2 lbs.) 6 kg. (13 lbs.)	7.7 kg. (17 lbs.) 8 kg. (17 lbs.)	9.8 kg. (21.6 lbs.) 11 kg. (24 lbs.)

CROSSOVER UV SPECIALTY APPLICATIONS

MODEL	LBH4/5/6-101-HW	LBH4/5/6-151-HW LBH4/5/6-151-50 LBH4/5/6-151-TOC	LBH4/5/6-251-HW LBH4/5/6-251-50 LBH4/5/6-251-TOC	LBH4/5/6-401-HW LBH4/5/6-401-50 LBH4/5/6-401-TOC
Hot Water Flow Rate (-HW) 30 mJ/cm2 @ 75% UVT (254nm)	6.5 GPM (25 lpm) (1.6 m³/hr)	10 GPM (38 lpm) (2.3 m³/hr)	16 GPM (61 lpm) (4.4 m³/hr)	28 GPM (106 lpm) (6.4 m³/hr)
LOW UVT Flow Rate (-50) 30 mJ/cm2 @ 50% UVT (254nm)	NA	6 GPM (23 lpm) (1.4 m³/hr)	10 GPM (38 lpm) (2.3 m³/hr)	17 GPM (64 lpm) (3.9 m³/hr)
TOC Flow Rate (-TOC) 150 mJ/cm2 @ 98% UVT (185nm)	NA	3.2 GPM (12 lpm) (0.7 m³/hr)	5 GPM (19 lpm) (1.1 m³/hr)	8 GPM (30 lpm) (1.8 m³/hr)
Port Size	¾" MNPT	1" MNPT	1" MNPT	1 ½" MNPT
Electrical	90-265V/50-60Hz (IEC power cords included)			
Plug Type	North American, NEMA 5-15, 3-wire for all 110V. - "1" suffix (i.e. LBH6-101-HW) European, CEE 7/7, 3-wire for all 230V - "2" suffix (i.e. LBH6-102-HW) British Standard, BS 1363, 3-wire for all 230V - "3" suffix (i.e. LBH6-103-HW) Australian/New Zealand, AS/NZ 3112, 3-wire for all 230V - "4" suffix (i.e. LBH6-104-HW)			
Lamp Watts	34	45	67	101
Power (watts)	38 (36 @ 230V.)	57 (48 @ 230V.)	73 (72 @ 230V.)	115 (108 @ 230V.)
Replacement Lamp (HOT WATER @ 254 nm)	RL-330HW	RL-420HW	RL-600HW	RL-950HW
Replacement Lamp (LOW UVT @ 254 nm)	—	RL-420HO	RL-600HO	RL-950HO
Replacement Lamp (TOC @ 185 nm)	—	RL-420HO-TOC	RL-600HO-TOC	RL-950HO-TOC
Replacement Sleeve	RQ-330	RQ-420	RQ-600	RQ-950
Replacement Controller	RCHO-4.12 (LBH4) RCHO-56.12 (LBH5/6)			
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)			
Operating Water Temperature	2-40° C (36-104° F)			
254nm UV Sensor	RSHO-B3.5 (LBH5/6 only)			
Solenoid Output	MOD-SOL (LBH5/6 only)			
4-20 mA Output	MOD-420 (LBH5/6 only)			
Remote Alarm Output	MOD-RAM (LBH5/6 only)			
Temperature Management Valve	130032	130033		130034
Cooling Fan	130014			
Lamp Status Indicator	YES			
Shipping Weight	5.4 kg. (11.9 lbs.) 5 kg. (11 lbs.)	6.0 kg. (13.2 lbs.) 6 kg. (13 lbs.)	7.7 kg. (17 lbs.) 8 kg. (17 lbs.)	9.8 kg. (21.6 lbs.) 11 kg. (24 lbs.)

EQUIPMENT SPECIFICATIONS

CROSSOVER UV HIGH OUTPUT

MODEL	LBH4-051 LBH5-051 LBH6-051	LBH4-101 LBH5-101 LBH6-101	LBH4-151 LBH5-151 LBH6-151	LBH4-251 LBH5-251 LBH6-251	LBH4-401 LBH5-401 LBH6-401
LUMINOR FLOW RATE (30 mJ/cm2 at 95% UVT)	5 GPM 18.9 lpm 1.1 m³/hr	10 GPM 37.9 lpm 2.3 m³/hr	15 GPM 57 lpm 3.4 m³/hr	25 GPM 95 lpm 5.7 m³/hr	40 GPM 151.4 lpm 9.1 m³/hr
Port Size	½" MNPT	¾" MNPT	1" MNPT	1" MNPT	1 ½" MNPT
Electrical	90-265V/50-60Hz. (IEC power cords included)				
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				
Replacement Lamp	RL-210HO	RL-330HO	RL-420HO	RL-600HO	RL-950HO
Replacement Sleeve	RQ-210	RQ-330	RQ-420	RQ-600	RQ-950
Replacement Controller	RCHO-4.12 (LBH4) RCHO-56.12 (LBH5/6)				
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 Sensor	RSHO-B3.5 (LBH5/6 only)				
Solenoid Output	MOD-SOL (LBH5/6 only)				
4-20 mA Output	MOD-420 (LBH5/6 only)				
Remote Alarm Output	MOD-RAM (LBH5/6 only)				
Temperature Management Valve	130031	130032	130033		130034
Cooling Fan	130014				
Lamp Status Indicator	YES				
Shipping Weight	4.5 kg. (10 lbs.)	5.4 kg. (11.9 lbs.)	6.0 kg. (13.2 lbs.)	7.7 kg. (17 lbs.)	9.8 kg. (21.6 lbs.)

MULTI-USE UV STANDARD OUTPUT

MODEL (includes 12V variants)	LB4-021 LB5-021 LB6-021	LB4-031 LB5-031 LB6-031	LB4-061 LB5-061 LB6-061	LB4-101 LB5-101 LB6-101	LB4-151 LB5-151 LB6-151	LB4-201 LB5-201 LB6-201
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 77 lpm 4.6 m³/hr	30 GPM 113.6 lpm 6.8 m³/hr	39 GPM 150 lpm 8.9 m³/hr
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
Replacement Controller	RC-B4.01 (LB4) RC-B56.12 (LB5/6)					
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 Sensor	RS-B2.5 (LB5/6 only)					RS-B3.5 (LB5/6 only)
Solenoid Output	MOD-SOL (LB5/6 only)					
4-20 mA Output	MOD-420 (LB5/6 only)					
Remote Alarm Output	MOD-RAM (LB5/6 only)					
Temperature Management Valve	N/A	130031	130032		130033	
Lamp Status Indicator	YES					
Shipping Weight	3.3 kg. (7.2 lbs.)	3.6 kg. (8 lbs.)	4.4 kg. (9.6 lbs.)	6.8 kg. (15.0 lbs.)	8.0 kg. (17.6 lbs.)	8.4 kg. (18.6 lbs.)

EQUIPMENT SPECIFICATIONS

CONTRACTOR SERIES UV

MODEL	LBC4-101 LBC5-101	LBC4-151 LBC5-151	LBC4-R1 LBC5-R1	LBC4-R2 LBC5-R2
LUMINOR FLOW RATE (30 mJ/cm² at 95% UVT)	10 GPM 37.9 lpm 2.3 m³/hr	15 GPM 56.8 lpm 3.4 m³/hr	8 GPM 30.3 lpm 1.8 m³/hr	15 GPM 57 lpm 3.4 m³/hr
Filter Housing	—	—	10" 5-Micron Sediment LC-10S	20" 5-Micron Sediment LC-20S
Port Size	1" MNPT			
Electrical	90-265V/50-60Hz.			
Plug Type	North American, NEMA 5-15, 3-wire for all 110V. - "1" suffix (i.e. LBC5-101) European, CEE 7/7, 3-wire for all 230V. - "2" suffix (i.e. LBC5-102) British Standard, BS 1363, 3-wire for all 230V. - "3" suffix (i.e. LBC5-103) Australian/New Zealand, AS/NZ 3112, 3-wire for all 230V. - "4" suffix (i.e. LBC5-104)			
Lamp Watts	34	45	20	45
Power (watts)	38 (36 @ 230V.)	57 (48 @ 230V.)	23 (21 @ 230V.)	57 (48 @ 230V.)
Replacement Lamp	RL-330HO	RL-420HO	RL-420	RL-420HO
Replacement Sleeve	RQ-330	RQ-420	RQ-420	
Replacement Controller	RCHO-4.12 (LBC4) RCHO-56.12 (LBC5)		RC-B4.01 (LBC4) RC-B56.12 (LBC5)	RCHO-4.12 (LBC4) RCHO-56.12 (LBC5)
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 20.0" (8.9 x 50.8 cm)	
Chamber Material	Polished 304 Stainless Steel, A249 Pressure Rated Tubing			
Controller Dimensions	21.7 x 10.8 x 10.2 cm (8.6 x 4.2 x 4")		17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4")	21.7 x 10.8 x 10.2 cm (8.6 x 4.2 x 4")
Operating Pressure	0.7-10.3 bar (10-150 psi)		0.7-8.3 bar (10-120 psi)	
Operating Water Temperature	2-40° C (36-104° F)			
Lamp Status Indicator	YES			
Shipping Weight	5.4 kg (11.9 lbs)	6.0 kg 13.2 lbs)	6.0 kg (13.2 lbs)	6.0 kg (13.2 lbs)

VENDING SYSTEMS INTEGRATED DRY CONTACTS

MODEL	LBV-021	LBV-031	LBV-061
Flow Rate (16mJ/cm ² @ 95% UVT)	3.8 GPM 15 lpm 0.87 m ³ /hr	6.1 GPM 23 lpm 1.4 m ³ /hr	11 GPM 41 lpm 2.5 m ³ /hr
Flow Rate (30mJ/cm ² @ 95% UVT)	2.0 GPM 7.7 lpm 0.46 m ³ /hr	3.1 GPM 11 lpm 0.7 m ³ /hr	5.8 GPM 23 lpm 1.3 m ³ /hr
Flow Rate (40mJ/cm ² @ 95% UVT)	1.6 GPM 6.1 lpm 0.36 m ³ /hr	2.4 GPM 9.1 lpm 0.5 m ³ /hr	4.4 GPM 17 lpm 1 m ³ /hr
Port Size	½" FNPT	½" MNPT	¾" MNPT
Electrical	100-240V/50-60Hz. 1.5A Max		
Plug Type	Terminal Blocks		
Lamp Power (Watts)	8	15	22
Power (Watts)	14	20	30
Replacement Lamp	RL-210	RL-290	RL-470
Replacement Sleeve	RQ-210	RQ-290	RQ-470
Replacement Controller	RC-B4.0V		
Reactor Dimensions	6.4 x 26.2 cm (2.5 x 10.3")	6.4 x 36.4 cm (2.5 x 14.3")	6.4 x 54.2 cm (2.5 x 21.3")
Chamber Material	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)		
Dry Contacts	YES		
Temperature Mgmt. Valve	—	130131	130132
Cooling Fan	—		
Shipping Weight	2.9 kg (6.3 lbs)	3.6 kg (7.9 lbs)	4.4 kg (9.6 lbs)

EQUIPMENT SPECIFICATIONS

GLACIER POU UVC LED

MODEL	GUV-4S	GUV-5S
Display	Dual colour LED	Full customizable colour screen
Flow Rate (10 mJ/cm ² @ 95% UVT)	1.5 GPM 5.6 lpm 0.33 m ³ /hr	
Flow Rate (16 mJ/cm ² @ 95% UVT)	1.3 GPM 4.9 lpm 0.29 m ³ /hr	
Flow Rate (30 mJ/cm ² @ 95% UVT)	0.6 GPM 2.4 lpm 0.14 m ³ /hr	
Flow Rate (40 mJ/cm ² @ 95% UVT)	0.4 GPM 1.3 lpm 0.08 m ³ /hr	
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	
Lamp Status Indicator	YES	
LED Life	5,000 hours	
Solenoid Output	—	MOD-SOL
Dry Contacts (solenoid ready)	—	MOD-RAM
4-20 mA Output	—	MOD-420
IoT	—	MOD-APP
Overall Dimensions (with mounting brackets)	241mm x 104mm x 107mm (9.5in x 4.1in x 4.2in)	
Shipping Weight	400 g (14 oz)	

EQUIPMENT SPECIFICATIONS

POOL UV FOR POOLS & SPAS

MODEL	POOLUV45	POOLUV75
Flow Rate	20,000 Gallon Pool 45 GPM 170 lpm	40,000 Gallon Pool 75 GPM 284 lpm
Port Size	2" MNPT	
Electrical	120V ± 10% / 50-60Hz	
Plug Type	American, Nema 5-15 (Standard) European, CEE 7/7 230V (Use Suffix -2 when ordering) AUS/NZS 3112 230V (Use Suffix -4 when ordering)	
Lamp Watts	67	101
Replacement Lamp	PUV-600	PUV-900
Replacement Sleeve	PUV-Q600	PUV-Q900
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 Temperature	2-40° C (36-104° F)	
Lamp Status Indicator	YES	
Shipping Weight	15 kg (33 lbs)	16.7 kg (36.8 lbs)

EQUIPMENT SPECIFICATIONS

UV AIR FOR INDOOR AIR QUALITY

MODEL	UVAIR-01
Effective Purification	Up to 3,500 sq. ft.
Electrical	108-132V @ 60 Hz, 36 Watts, 0.55A
Operating Temperature	-5° C - 75° C
Operating Relative Humidity	90%
Powerhead Dimensions	5"(W) x 5"(H)
Replacement Lamp	UVAIR-RL1
Lamp Status Indicator	YES
Shipping Weight	1.0 kg (2.2 lbs)

RAINIER COMMERCIAL / INDUSTRIAL

MODEL	LR5 (non-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
	LR6 (UV-monitored)						
Normal Flow Rate 30 mJ/cm ² @ 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/cm ² @ 75% UVT		22 GPM 83 lpm 5.0 m³/hr	38 GPM 144 lpm 8.6 m³/hr	55 GPM 208 lpm 12.5 m³/hr	75 GPM 284 lpm 17.0 m³/hr	95 GPM 360 lpm 21.6 m³/hr	115 GPM 435 lpm 26.1 m³/hr
LOW UVT Flow Rate 30 mJ/cm ² @ 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/cm ² @ 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 Rate (US Public Health) 16 mJ/cm ² at 95% UVT		66 GPM ¹ 250 lpm 15.0 m³/hr	109 GPM ² 413 lpm 24.8 m³/hr	167 GPM ² 632 lpm 37.9 m³/hr	266 GPM ³ 1007 lpm 60.4 m³/hr	337 GPM ⁴ 1276 lpm 76.5 m³/hr	406 GPM ⁵ 1537 lpm 92.2 m³/hr
Alternate Flow Rate 40 mJ/cm ² at 95% UVT		26 GPM 98 lpm 5.9 m³/hr	44 GPM 167 lpm 10.0 m³/hr	67 GPM 252 lpm 15.1 m³/hr	106 GPM 401 lpm 24.1 m³/hr	135 GPM 511 lpm 30.7 m³/hr	163 GPM 617 lpm 37.0 m³/hr
Port Size		1 ½" MNPT	2" MNPT	2" MNPT	2 ½" MNPT	3" MNPT	4" ASME
Electrical	90-265V/50-60Hz. (IEC power cords required)						
Power Plug	North American, 120V - "1" suffix (i.e. LR5-351) European, CEE 7/7, 3-wire for all 230V - "2" suffix (i.e. LR5-352) British Standard, BS 1363, 3-wire for all 230V - "3" suffix (i.e. LR5-353) Australian/New Zealand, AS/NZ 3112, 3-wire for all 230V - "4" suffix (i.e. LR5-354) North American, NEMA 6-15, 3 prong for all 230V - "5" suffix (i.e. LR5-355)						
Lamp Watts		104	152	207	304	344	414
Power (watts)		120	170	220	320	360	430
Replacement Lamp		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)						
Operating Water Temperature	2-40° C (36-104° F)						
254nm UV Intensity Monitor	RS-RUV						
Remote-On	Requires 210010 Cable Assembly						
Dry Contacts (solenoid ready)							
4-20 mA Output							
Temperature Management Valve	130034	—					
Cooling Fan	130018 (4" chambers only, int'l plug options available)				—		
Lamp Status Indicators	YES						
Shipping Weight	Call Factory						

Note: 1. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rates 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 rates 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 rates 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 rates 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 rates 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.

EQUIPMENT SPECIFICATIONS

EVEREST INDUSTRIAL / MUNICIPAL

MODEL	LE5 (non-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
	LE6 (UV-monitored)			
Normal Flow Rate 30 mJ/cm ² @ 95% UVT		530 GPM 2013 lpm 120.8 m ³ /hr	780 GPM 2957 lpm 177.4 m ³ /hr	915 GPM¹ 3468 lpm 208.0 m ³ /hr
Hot Water Flow Rate 30 mJ/cm ² @ 75% UVT		230 GPM 870 lpm 52.2 m ³ /hr	341 GPM 1292 lpm 77.5 m ³ /hr	404 GPM 1530 lpm 91.8 m ³ /hr
LOW UVT Flow Rate 30 mJ/cm ² @ 50% UVT		119 GPM 452 lpm 27.1 m ³ /hr	179 GPM 679 lpm 40.7 m ³ /hr	210 GPM 796 lpm 47.7 m ³ /hr
TOC Flow Rate 150 mJ/cm ² @ 98% UVT		122 GPM 462 lpm 27.7 m ³ /hr	179 GPM 679 lpm 40.7 m ³ /hr	209 GPM 793 lpm 47.6 m ³ /hr
Alternate Flow Rate (US Public Health) 16 mJ/cm ² @ 95% UVT		997 GPM² 3775 lpm 226.5 m ³ /hr	1464 GPM² 5545 lpm 332.7 m ³ /hr	1717 GPM² 6502 lpm 390.1 m ³ /hr
Alternate Flow Rate 40 mJ/cm ² @ 95% UVT		400 GPM 1510 lpm 90.6 m ³ /hr	586 GPM 2218 lpm 133.1 m ³ /hr	687 GPM 2601 lpm 156.0 m ³ /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		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	2x ½" FNPT			
Maximum Operating Pressure	10.3 bar (150 psi)			
Operating Water Temperature	2-60° C (36-140° F)			
254nm UV Intensity Monitor	RS-EUV			
Remote-On	YES (DIN Rail Terminal Blocks)			
Dry Contacts (solenoid ready)				
4-20 mA Output				
Lamp Status Indicators	YES			
Shipping Weight	Call Factory			

Note: 1. Based on flow velocity of 8.2 ft/sec (2.5 m/sec.), flow rates 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.

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.



CE

A mandatory conformity marking for regulating the goods sold within the European Economic Area (EEA). LUMINOR products displaying the CE mark 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.



CSA

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



NOM

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 for applicable products.



NSF

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 applicable LUMINOR products were impartially reviewed to establish standards or guidelines. It confirms that the labels and claims about these products have been objectively verified by a trusted third party.



PSE

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



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 in New Zealand. This mark covers disciplines of safety, EMC, telecom, and wireless testing.



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, including select LUMINOR systems. UL covers a wide variety of industries including electrical safety, security, and sustainability.



WATERMARK

A mandatory certification scheme in Australia for plumbing and drainage products to ensure they are fit for their purpose and appropriately authorized for use in plumbing and drainage installations. A Watermark certification must be on all plumbing and drainage products in Australia, including applicable LUMINOR systems.



WQA

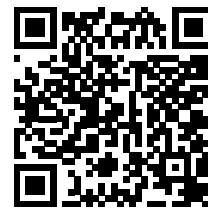
The Water Quality Association (WQA) is a not-for-profit association for the residential, commercial, and industrial water treatment industry, representing more than 2,500 member companies around the globe, including LUMINOR.



WRAS

A material approval organization that tests non-metallic materials and simple components that come into contact with drinking water. A WRAS certification demonstrates that select LUMINOR systems do 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.

FREQUENTLY ASKED QUESTIONS



How do I place an order?

Please contact your LUMINOR Sales Representative or submit a Purchase Order to sales@luminoruv.com.

Where can I get technical support?

Please see our troubleshooting guide on Page 82 or visit our website for tips.

How does UV disinfection work?

UV is known to be an effective disinfectant due to its strong germicidal (inactivating) ability. As water runs through the UV reactor it is exposed to UV light that the lamp gives off, causing a genetic change in any microorganisms that are present in the water.

In simple terms, when a microbe is directly exposed to the UV light, the DNA (its fundamental building block) of the cell is damaged thus preventing its reproduction. If a cell cannot reproduce, then the cell cannot cause infection.

What is unique about LUMINOR UV systems?

LUMINOR's full line of products are designed, engineered and assembled in Canada with the highest quality components. Our modern controller technology allows for flash field reprogramming and per-dealer-customization. Our industry-first colour screen display provides detailed, versatile reporting and feedback on how your UV system is functioning. Our LightLock™ Lamp Key technology ensures only OEM parts are used, protecting repeat lamp sales and ensuring the longevity of the UV system. LUMINOR offers a wide variety of solutions for any disinfection application ranging from under-the-counter POU systems to industrial, 900 GPM+ installations.

Is a UV system expensive to operate and maintain?

When compared to other disinfection systems, the answer is no. As long as proper pre-treatment is maintained, an annual system check-up and lamp replacement is all that is required. As most UV systems are designed to be left on at all times, a typical household system will draw about the same energy requirements as a 40 watt light bulb.

Does UV change the taste of my drinking water?

No, disinfection by UV is a physical process and not a chemical process. UV does not alter the water chemistry and will not affect the taste or odour of your water. UV only addresses microbiological concerns.

Is UV effective against all microorganisms?

UV does have an effect on all microorganisms to some effect. Whether it is bacteria, viruses, algae, protozoan cysts, spores, mould, etc., exposure to UV light will harm the organism. Each individual organism requires a different level of exposure (known as UV Dose) in order to prevent cell replication. Some organisms, usually viruses, require extremely high doses of UV light in order to achieve disinfection. The important issue here is that one should ensure that the UV system they are purchasing delivers enough UV dose at the end of the lamp life to ensure adequate disinfection against a typical array of organisms found in drinking water.

What level of UV dose is right for me?

The "right" UV dose is directly dependent on the application. Many industrial applications are pathogen specific but for the average home owner the target pathogens typically require low UV dosages to be eradicated. Currently, three different UV dose levels exist in the market; 16, 30 and 40 mJ/cm². The 16 mJ/cm² dose will eradicate typical waterborne pathogens. Industry standards have long suggested a UV dose of 30 mJ/cm² at the end of lamp life. This dose allows for nearly double the original US Public Health dose and allows for a comfortable safety margin. The most recent UV dose suggested is that of NSF International who suggests a UV dose of 40 mJ/cm².

I've never gotten sick from my water, do I need UV?

There have been numerous instances around the globe where water has been provided by a municipality (or lake water approved by local board) that may not be safe. In these cases, the UV system installed in your home acts as "insurance" for your water supply; an inexpensive way to offer security to you and your family.

Does UV need any pretreatment?

Yes, UV works extremely well at addressing the microbiological issues, but can be greatly impeded by the presence of other water issues. The main concerns for UV are that of water hardness, tannins, turbidity, iron, manganese and UV transmittance. All of these issues can be addressed by other water treatment equipment such as filters and water softeners.

If I need a part for my UV system where can I get it?

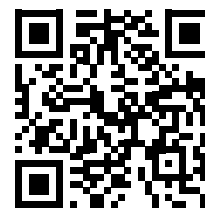
To obtain replacement components for your UV system, you should contact the distributor you originally purchased the UV system from. They will be able to supply you with the part or order one for you.

How do I dispose of my UV lamp?

The UV lamp should be disposed in accordance with your local regulations. The lamps should be disposed in the same fashion as any other fluorescent light fixture that may be in your home or office. Recycling is preferred.

TROUBLESHOOTING QUICK GUIDE

Please use this guide to troubleshoot possible issues and common alarms on your BLACKCOMB UV system. A similar guide is included in every UV system Manual. If further assistance is required, please contact your distributor or visit us online at support.luminoruv.com for support documentation and helpful videos.



WATER QUALITY PARAMETERS

Treated water should be tested for the parameters listed below. If the water exceeds the listed parameters, LUMINOR strongly recommends that appropriate pretreatment equipment be installed (equipment required will depend on parameters being treated):

Hardness:	<7 gpg (120 mg/L) – 7 gpg or slightly below the quartz sleeve must be cleaned periodically to ensure efficient UV penetration; if above the water must be softened.
Water pH:	6.5 - 8.5
Iron (Fe):	<0.3 ppm (0.3 mg/L)
Manganese (Mn):	<0.05 ppm (0.05 mg/L)
Turbidity:	< 1 NTU
Tannins (organics):	<0.1 ppm (0.1 mg/L)
UVT (transmittance):	>85%

REPLACING THE UV LAMP

After the lamp is expired, it must be replaced with the same part number as indicated by the label on the reactor or Maintenance Parts Screen (5.1 & 6.1 systems).

- Step 1.** Obtain the correct lamp as shown on the silver label of the reactor or the maintenance parts screen.
- Step 2.** If a by-pass assembly is installed, shut the inlet valve off to prevent water flow through the system. Otherwise, turn off main water inlet valve (and/or turn off the water pump).
- Step 3.** Unplug the power for the controller. For 5.1/6.1 systems, remove and discard the Lamp Key from the controller.
- Step 4.** Unscrew the captive ground screw from the ground lug on the UV reactor.
- Step 5.** Push down lamp cable and turn ¼ turn counterclockwise to release lamp cable from gland nut.
- Step 6.** Being careful to touch only the ceramic ends, disconnect and remove the lamp from the reactor.
- Step 7.** The replacement lamp is packaged with a lamp key on the connector at the end of the lamp. Remove the key from the lamp and place it in the controller.
- Step 8.** Remove the lamp from its packaging, always holding the lamp by its ceramic ends (the use of cotton gloves is recommended).
- Step 9.** Insert the UV lamp into the reactor, being careful not to drop it.
- Step 10.** Plug the LUMI-Loc™ lamp connector into the lamp, note the keying for proper alignment. Insert the lamp connector into the gland nut and turn the connector approximately ¼ turn to lock.
- Step 11.** Tighten the captive ground screw to the ground lug on the UV reactor to ensure proper grounding.
- Step 12.** For 4.1 systems, reset the timer in the controller by holding down the button on the controller for 10 seconds.

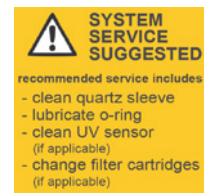
CLEANING THE QUARTZ SLEEVE

Depending on the water quality, the quartz sleeve may require periodic cleaning. At a minimum, the quartz sleeve should be cleaned on an annual basis. The following steps outline a basic cleaning procedure.

- Step 1.** If a by-pass assembly is installed, shut the inlet valve off to prevent water flow through the system. Otherwise, turn off main water inlet valve (and/or turn off the water pump).
- Step 2.** Unplug the power for the controller.
- Step 3.** Release water pressure by opening a downstream faucet and then close the outlet shut-off valve (if any).
- Step 4.** Unscrew the captive ground screw from the ground lug on the UV reactor.
- Step 5.** Push down lamp cable and turn ¼ turn counterclockwise to release lamp cable from gland nut.
- Step 6.** Being careful to touch only the ceramic ends, disconnect and remove the lamp from the reactor.
CAUTION: Lamp may be hot.
- Step 7.** Unscrew the gland nut from the reactor exposing the end of the quartz sleeve.
- Step 8.** Remove the quartz sleeve and o-ring by gently twisting and pulling the quartz sleeve. The spring should remain inside the quartz sleeve. **CAUTION: Quartz sleeve is fragile.**
- Step 9.** Using a soft, lint-free cloth or towel wipe the sleeve down using a commercial scale cleaner (i.e. CLR® or LIME-A-WAY®). This removes scaling or iron deposits that may be on the outside of the quartz sleeve. Be careful not to get any moisture or liquids inside of the sleeve.
- Step 10.** Dry the sleeve with separate cloth.
- Step 11.** Replace the o-ring and slide the sleeve back into the reactor, reversing the previous steps.

SYSTEM SERVICE SUGGESTED

Blackcomb 5.1 & 6.1 controllers will display the System Service Suggested Screen every 6 months to remind consumers to maintain both the UV system and other prefiltration parts. This will serve as a prompt only and will not put the system into alarm. To clear this condition simply press the button located below the screen.



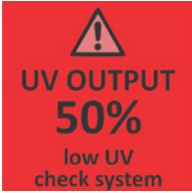
CLEANING THE UV SENSOR

Depending on the water quality, the UV sensor may require periodic cleaning. At a minimum, the UV sensor should be cleaned on an annual basis. The following steps outline a basic cleaning procedure.

- Step 1.** If a by-pass assembly is installed, shut the inlet valve off to prevent water flow through the system. Otherwise, turn off main water inlet valve (and/or turn off the water pump).
- Step 2.** Disconnect power cord of UV system from electrical outlet.
- Step 3.** Release water pressure by opening a downstream faucet and then close the outlet shut-off valve (if any).
- Step 4.** Place something under the reactor to catch any water that may come out of the reactor during the removal of the UV sensor.
- Step 5.** Unscrew the sensor nut from the reactor and slowly remove the sensor from the sensor port.
- Step 6.** While holding the sensor, wipe the flat portion (sensor face) with isopropyl alcohol using a clean lint-free cloth.
- Step 7.** Replace the sensor by reversing the previous steps.

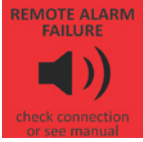
HARD ALARMS

The following indications give a constant audible alarm. If installed, the solenoid valve is closed, and the 4-20, remote alarm and wifi modules all transmit the alarm.

SYSTEM DISPLAY	PROBLEM	RESOLUTION
 	The system has detected a problem with the lamp.	1. Reset lamp protection circuit: unplug unit for 3 minutes. 2. Replace the lamp with the part as indicated on the silver label on the reactor or on the Maintenance parts screen.
 	Although the lamp is powered and visibly illuminated, due to the lamp's age its UV output is no longer sufficient for proper disinfection.	Replace the lamp with the part as indicated on the silver label on the reactor or on the Maintenance parts screen.
	Low UV Intensity.	Clean the quartz sleeve and sensor. Check water quality meets specs on page 80, add filtration as required. If alarm persists, replace lamp. <i>If water quality parameters fall in spec, a Dry Test should be performed (see pg 85).</i>
	A bad connection has been detected in an IEP port.	Ensure all modules are connected properly to the system and to each other. Check for obstructions (dirt, rust, water, etc). Modules can be tested individually by plugging in one at a time and cycling power to the system (unplug for 10 seconds and plug back in). Replace any module that is not detected when plugged directly into the controller.
 	Missing or incorrect lamp key.	Ensure the lamp key (packed with the lamp) is installed. Unplug and reinstall the key. Ensure the key part number matches Lamp on Maintenance Parts screen.

SOFT ALARMS

The following remaining errors give a 15 second audible chirp only.

SYSTEM DISPLAY	PROBLEM	RESOLUTION
 SOLENOID FAILURE check connection or see manual  4-20 mA FAILURE check connection or see manual  UV SENSOR FAILURE check connection or see manual  REMOTE ALARM FAILURE check connection or see manual  WIFI FAILURE check connection or see manual	The module indicated is no longer communicating with the system.	Ensure all modules are connected properly to the system and to each other. Modules can be tested individually by plugging in one at a time and cycling power to the system. Replace any module that is not detected when plugged directly into the controller.
 LAMP INCORRECT Required Part: RL-470 Installed Part: RL-290	Wrong lamp is installed.	Replace component with proper model as indicated.
 FLOW METER FAILURE check connection or see manual  LUMINOR ENVIRONMENTAL ERROR Flow Rate FULL POWER	Refer to flow meter manual for detailed troubleshooting	

PERFORMING A DRY TEST

When determining the cause of a "Low UV Output" or "Low UVT" alarm, a necessary step is to perform a water quality test. It is important that water quality parameters fall within the specifications listed on page 80. If the water quality falls outside the requirements, pre-filtration must be installed to resolve the issue. If the water quality falls within the requirements above, a dry test should be performed following the directions below.

- Step 1.** Shut off the water source

Step 2. Unplug the controller from the power source

Step 3. De-pressurize the chamber and drain the water

Step 4. Clean and dry the sensor and reinstall.

Step 5. Clean and dry the quartz sleeve and reinstall.

Step 6. With the water still shut-off, plug the controller into the power source.

Step 7. Check the UV intensity again.

If the dry test shows a good result, other possible causes of low UV (or low UVT) alarms are:

Air bubbles in water

- This can be tested by taking a water sample after the UV system in a clear glass. Look to see if bubbles form. If they do, there are air bubbles in the water. This must be purged from the water supply before the UV system.

High water temperatures

- This is seen when water is not flowing through the chamber for long periods of time. A flowmeter or a temperature relief valve can be installed to mitigate this issue.

WARRANTY INFORMATION

Products manufactured by LUMINOR Environmental Inc., (LUMINOR) are warranted to the original user only to be free of defects in material and workmanship for a period as specified below. This warranty only applies to the original purchaser and is not transferable (proper documentation required for verification).

UV REACTORS

Ten (10) year Limited Warranty on the stainless steel reactors, from the date of original purchase, or installation.
Three (3) year Limited Warranty on PoolUV System reactors.

ELECTRONICS

Three (3) year Limited Warranty on the ballasts and controllers, from the date of original purchase, or installation

UV LAMPS, UV SENSORS & QUARTZ SLEEVES

One (1) year Limited Warranty on all LUMINOR UV lamps, UV sensors and quartz sleeves from the date of original purchase, or installation.

LUMINOR warrants that it will repair, replace or refund, at LUMINOR's sole option, any ultraviolet system or component that is defective in materials or workmanship for the period as outlined above, subject to the "Limitations of Warranty" as outlined below. LUMINOR's liability under this warranty shall be limited to repairing or replacing at LUMINOR's option, without charge, F.O.B. LUMINOR's factory or authorized service depot, any product that LUMINOR manufactures. LUMINOR will not be liable for any costs of removal, installation, transportation, or any other charges which may arise in connection with a warranty claim. Products which are sold but not manufactured by LUMINOR are subject to the warranty provided by the manufacturer of said products and not by LUMINOR's warranty. LUMINOR will not be liable for damage or wear to products caused by abnormal operating conditions, accident, abuse, misuse, unauthorized alteration or repair, or if the product was not installed in accordance with LUMINOR's printed installation and operating instructions.

LIMITATIONS OF WARRANTY

This warranty does not apply to any of the following:

- Water Quality Parameters have the following ranges

Hardness:	>7 gpg (120 mg/L)
Water pH:	<6.5 or >8.5
Iron (Fe):	>0.3 ppm (0.3 mg/L)
Manganese (Mn):	>0.05 ppm (0.05 mg/L)
Turbidity:	>1 NTU
Tannins (organics):	<0.1 ppm (0.1 mg/L)
UVT (transmittance):	<75%

- A product that has been incorrectly installed according to the owners manual.
- A product that has been modified in any manner, unless approved by the manufacturer.
- A product where the serial number has been altered, defaced, or removed.
- Damage caused by the use of parts that are not compatible, suitable and/or authorized by LUMINOR for use with the product (e.g. non-original lamps or sleeves).
- Damage caused during shipment of the product.
- Water damage is found inside ballast housing or controllers.
- Product is installed outdoors in direct contact with the environment (rain).
- Product is installed in freezing temperatures.
- Humidity (non condensing) of the installed environment is below 10% or exceeds 90%
- Product is used in conditions that exceed LUMINOR's specifications.

TO GET WARRANTY SERVICE

To obtain service under this warranty, you must first contact where the product was originally purchased to obtain a Warranty Return Authorization. You will require proof of purchase and installation date, failure date, and any other requested data. Unless otherwise provided, the Dealer or Distributor will contact LUMINOR for instructions on returning the product. Any defective product to be returned to LUMINOR must be sent freight prepaid; documentation supporting the warranty claim and/or a Return Goods Authorization must be included if so instructed.

Upon contacting LUMINOR with a warranty inquiry, please make sure the below details are shared so that our team can investigate your inquiry effectively and efficiently:

- Model #
- Serial #
- Installation Date
- Describe the issue as clear as possible
- Include photos/videos if possible - attach to email/support response.
- Provide any other relevant details about the specific installation.
 - Example: What troubleshooting was attempted by the tech, and what were the results?

Once these details are provided, we may suggest further troubleshooting to help rectify the issue, or we may proceed to initiate a warranty claim.

LUMINOR WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES CAUSED BY FIRE, FLOOD, OR ACTS OF GOD, LOSSES, OR EXPENSES ARISING FROM INSTALLATION, USE, OR ANY OTHER CAUSES. THERE ARE NO EXPRESS OR IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH EXTEND BEYOND THOSE WARRANTIES DESCRIBED OR REFERRED TO ABOVE.

THIS LIMITED WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY MADE BY LUMINOR WITH RESPECT TO THE PRODUCT, AND IS GIVEN IN LIEU OF ANY OTHER WARRANTY. TO THE EXTENT ALLOWED BY APPLICABLE LAW, ANY AND ALL EXPRESS OR IMPLIED WARRANTIES NOT SET FORTH HEREIN ARE WAIVED AND DISCLAIMED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE. LUMINOR LIABILITY UNDER THIS LIMITED WARRANTY IS LIMITED SOLELY TO THOSE LIABILITIES SET FORTH ABOVE. IN THE EVENT THAT ANY PROVISION OF THIS LIMITED WARRANTY SHOULD BE OR BECOME INVALID OR UNENFORCEABLE UNDER APPLICABLE LAW, THE REMAINING TERMS AND CONDITIONS HEREOF SHALL REMAIN IN FULL FORCE AND EFFECT AND SUCH INVALID OR UNENFORCEABLE PROVISION SHALL BE CONSTRUED IN SUCH A MANNER AS TO BE VALID AND ENFORCEABLE.

WARRANTY REGISTRATION

It is imperative that you complete the warranty registration process. This not only registers your UV disinfection system for the provided manufacturer's warranty, but also allows the factory to provide you with any important product updates or technical bulletins concerning your product. The registration process is simple and can ONLY be done online at **uv-warranty.com**. When registering please ensure that ALL information is filled in, including a valid e-mail address.

PLEASE NOTE: This information is for the sole purpose of technical support for your disinfection system and will not be used, or sold, to any other organization for any other purpose. Please refer to LUMINOR's Privacy Policy statement at luminoruv.com/privacy-policy for further information.

STANDARD TERMS & CONDITIONS

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 an 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 7(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 7(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 (or Canadian dollars for orders placed in Canada). 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 7(a) may similarly be cancelled or rescheduled by LUMINOR upon written notice to Buyer.

8. PRODUCT RETURN POLICY AND RESTOCKING CHARGES

Buyers may only return products to LUMINOR with LUMINOR's prior written approval and the issuance of a valid returned goods authorization ("RGA")

number, as issued by LUMINOR to the Buyer. Upon issuance of an RGA, the Buyer may return the respective products to LUMINOR prepaid. 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, unused, unmodified, and resalable. A minimum restocking charge of 35% will apply to all Blackcomb, Rainier, Everest, and Pool UV systems. A minimum restocking charge of 25% will apply to all other LUMINOR products. Additional charges will be applied if any rework is required. Modified, engineered, and private branded for customers or OEM products cannot be returned without written approval from LUMINOR. Returns will not be accepted on products after 180 days from the shipping date.

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 including and applicable tariffs.

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 Dr. 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 a \$50 processing charge. Waiver of said charge will be at the sole discretion of the seller.

18. DROP SHIP ORDERS

Drop ship orders will carry a \$50 charge on order. Effective January 2025.

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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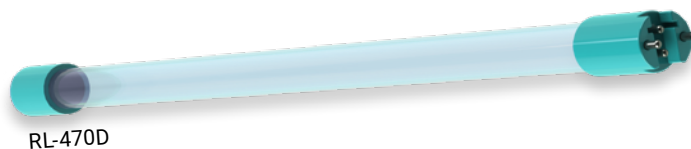
NOTES

[illegible]

[illegible]



- 130022 (drilled + mounting hardware)
- 130024 (plaque only, no mounting)
- 130025 (kit + system & emulator)



LOOKING FOR MARKETING SUPPORT?

LUMINOR's internal marketing team is always looking to support and collaborate with our dealers and partners to better support you and your customers. **We can offer high-resolution images, literature, displays, and more.**

Contact the marketing team directly by emailing info@luminoruv.com or reach out to your salesperson today.

MARKETING MATERIAL FOR DISPLAY & SHOWS

MODEL	DESCRIPTION
130022	Plaque-Mounted (24" x 36") Poster (drilled + mounting hardware)
130024	Plaque-Mounted (24" x 36") Poster (no mounting)
130025	Plaque-Mounted (24" x 36") Poster with Mounted System (LB5-061DISP) & Emulator
LB5-061DISP	LB5-061 Display System, 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
MOD-EMU	A perfect companion for a sales call or trade show, this device emulates the UV Output and Lamp Counter on a BLACKCOMB controller (<i>see page 28</i>)

VISIT WITH US AT THE FOLLOWING SHOWS:

2026

JANUARY 27-29

Pool & Spa Expo
Atlantic City, NJ



MARCH 13-14

NE Well Water Assoc. Expo
Marlborough, MA

APRIL 28-30

WQA Convention & Expo
Miami Beach, FL

SEPTEMBER 1-3

Aquatech Mexico
Mexico City, MX

2027

MARCH 9-12

Aquatech Amsterdam
Amsterdam, NL

APRIL 28-30

WQA Convention & Expo
Phoenix, AZ



UV DISINFECTION SYSTEMS FOR HOME, INDUSTRY AND REGULATED MARKETS

AROUND THE WORLD



**Carbon
Neutral**

LUMINOR is proudly carbon neutral, offsetting emissions through global water initiatives, including clean-water infrastructure projects in Rwanda, helping provide safe drinking water where it's needed. carbonfootprint.com



water for people

LUMINOR donates a portion of our profits to Water for People, an organization working to build a world where all people have access to safe drinking water, and where no one suffers or dies from a water or sanitation related disease. waterforpeople.org

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LuminorUV



LUMINOR Environmental



EPA Establishment
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