

CONTROL YOUR OWN WATER QUALITY!

Models: LB4-021, LB4-031, LB4-061, LB4-101,
LB4-151, LB4-201

If you are unsure of the microbiological quality of your source water or if you are looking for additional security from your municipal water source, then LUMINOR has the solution in the BLACKCOMB 4.1 series of multi-use UV systems.

UV technology is proven to control microbiological (bacteria & virus) issues in water including *E.coli*, *Cryptosporidium* and *Giardia lamblia*.

Designed for easy, do-it-yourself installation, a BLACKCOMB 4.1 system can be installed on a single tap, or for even greater protection of the home's drinking water, installed at the point-of-entry, thereby treating all the water coming into the home!

Product Features

- Now available with integral lamp life monitor, with both audible and visual indication of lamp life
- Axial flow, 304 stainless steel polished reactors,
- Visual sight port for "lamp-on" verification
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm²
- True gland seal retaining nut with positive stop
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- Reliable, industry proven, proprietary low pressure (LP) coated UV lamps with ceramic bases for durability and long life (9,000 hours)
- Constant current electronic controller (one controller for all systems) in a splash proof case, fully potted ballast virtually eliminates common water damage issue
- Audible & visual lamp failure indicators
- Tactile selector button

Point-of-Use (POU)

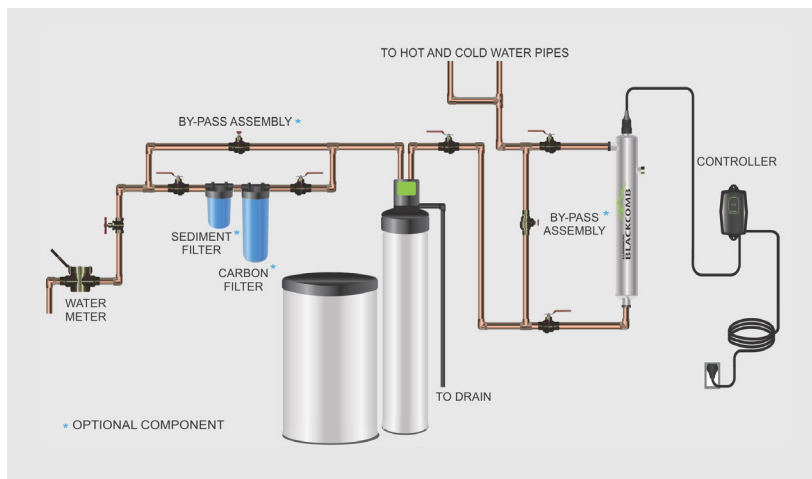
LB4-02 series, for flow rates of 8 lpm (2 gpm)
LB4-03 series, for flow rates of 11 lpm (3 gpm)

Point-of-Entry (POE)

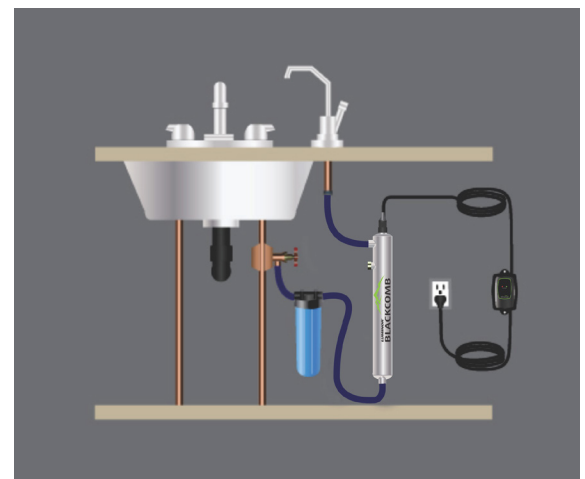
LB4-06 series, for flow rates of 23 lpm (6 gpm)
LB4-10 series, for flow rates of 41 lpm (11 gpm)
LB4-15 series, for flow rates of 57 lpm (15 gpm)
LB4-20 series, for flow rates of 79 lpm (21 gpm)



Typical POE Installation



Typical POU Installation



BLACKCOMB 4.1 SO - Equipment Specifications

BLACKCOMB (standard-output)						
Model	LB4-021	LB4-031	LB4-061	LB4-101	LB4-151	LB4-201
Flow Rate (30mJ/cm ² @ 95% UVT)	2 GPM	3 GPM	6 GPM	11 GPM	15 GPM	21 GPM
	7.6 lpm	11.4 lpm	22.7 lpm	41 lpm	57 lpm	79 lpm
	0.45 m ³ /hr	0.7 m ³ /hr	1.4 m ³ /hr	2.5 m ³ /hr	3.4 m ³ /hr	4.8 m ³ /hr
Flow Rate (40mJ/cm ² @ 95% UVT)	1.6 GPM	2.4 GPM	4.4 GPM	8.3 GPM	12 GPM	16 GPM
	6.1 lpm	9.1 lpm	17 lpm	31 lpm	45.4 lpm	59 lpm
	0.36 m ³ /hr	0.5 m ³ /hr	1.0 m ³ /hr	1.9 m ³ /hr	2.7 m ³ /hr	3.6 m ³ /hr
Flow Rate (16mJ/cm ² @ 95% UVT)	4 GPM	6 GPM	11 GPM	20 GPM	30 GPM	39 GPM
	15.1 lpm	23 lpm	41 lpm	77 lpm	114 lpm	150 lpm
	0.9 m ³ /hr	1.4 m ³ /hr	2.5 m ³ /hr	4.6 m ³ /hr	6.8 m ³ /hr	8.9 m ³ /hr
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	1" MNPT
Electrical	90-265V/50-60Hz.					
Plug Type	American, Nema 5/15, 3 wire for all 110V systems, "1" suffix (i.e. LB4-101) European, CEE 7/7, 3 wire for all 230V systems, "2" suffix (i.e. LB4-102) British Standard, BS 1363, 3 wire for all 230V systems, "3" suffix (i.e. LB4-103) Australian/New Zealand, AS/NZ 3112, 3 wire for all 230V systems, "4" suffix (i.e. LB4-104)					
Lamp Watts	8	15	22	39	50	42
Power (Watts)	14	20	30	49	62	51
Maximum Current (amps)	1	1	1	1	1	1
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					
Chamber Material	Polished 304 stainless steel, A249 pressure rated tubing					
Reactor Dimensions	2.5 x 10.3" (6.4 x 26.2cm)	2.5 x 14.3" (6.4 x 36.4cm)	2.5 x 21.3" (6.4 x 54.2cm)	2.5 x 35.2" (6.4 x 89.5cm)	2.5 x 40.0" (6.4 x 101.6cm)	3.5 x 36.1" (8.9 x 91.7cm)
Controller Dimensions	17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4")					
Operating Pressure	7-10.3 bar (10-150 psi)					
Operating Water Temp.	2-40° C (36 - 104°F)					
Lamp Change Reminder	YES (4-digit LED display)					
Visual Lamp Out Indicator	YES					
Audible Lamp Out Indicator	YES					
Shipping Weight	3.2 kg (7.1 lbs)	3.6 kg (8.0 lbs)	4.2 kg (9.3 lbs)	6.8 kg (15.0 lbs)	8.0 kg (17.6 lbs)	7.5 kg (16.5 lbs)

Conditions For Use

Your system will provide years of use provided the system is maintained on a regular basis as per the specifications outlined in the Owner's Manual. For the following system to perform as tested, the following water quality parameters must be met.

Parameter	Level
Hardness	< 120 mg/L (7 gpg)
Iron (Fe)	< 0.3 mg/L (ppm)
Manganese (Mn)	< 0.05 mg/L (ppm)
Tannins	< 0.1 mg/L (ppm)
Turbidity	< 1 NTU
Transmittance	> 75% UVT

For levels outside those specified in the table above, please contact the factory for further technical assistance.

Manufacturer's Warranty

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



See website for LUMINOR's complete warranty document including conditions and exclusions.

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EPA Establishment
 #088776-CAN-001



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Water
 Quality
 ASSOCIATION



LuminorUV



LuminorUV

LUMINOR™ BLACKCOMB

5.1 / 6.1

CONTROL YOUR OWN WATER QUALITY!

Models: LB5/6-021, LB5/6-031, LB5/6-061,
LB5/6-101, LB5/6-151, LB5/6-201

If you are unsure of the microbiological quality of your source water or if you are looking for additional security from your municipal water source, then LUMINOR has the solution in the BLACKCOMB series of residential UV systems.

UV technology is proven to control microbiological (bacteria & virus) issues in water including *E.coli*, *Cryptosporidium* and *Giardia lamblia*.

BLACKCOMB provides the ultimate in UV protection for your home with the inclusion of a true 254nm Teflon® based UV sensor that continuously monitors the performance of the UV system and displays the output via a colour screen (optional on 5.1 systems). In addition to UV output, diagnostics, system status, warnings, even QR codes are included.

With the integral expandability port, the addition of a 4-20mA output or a solenoid valve is a simple plug-and-play option!

Product Features

- Free floating (no cable twist), keyed-in-place, 254nm Teflon® based UV sensor continuously measures and displays UV output (as a %) (std. on LB6, optional on LB5)
- Colour screen controller with Lightlock™ for protected lamp replacement, includes QR codes, full diagnostics & warnings
- "Future-proof" expandability port for future upgrades and options
- Axial flow, 304 stainless steel polished reactors, designed & manufactured to ASME pressure vessel standards
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- Reliable, industry proven, proprietary low pressure coated UV lamps with ceramic bases for durability and long life (9,000 hours)
- Constant current electronic controller (one controller for all LP units) in a splash proof case, fully potted ballast virtually eliminates common water damage issue
- Full customization available as an option (language, home screen, phone number, QR codes, etc.)

Sample Screens



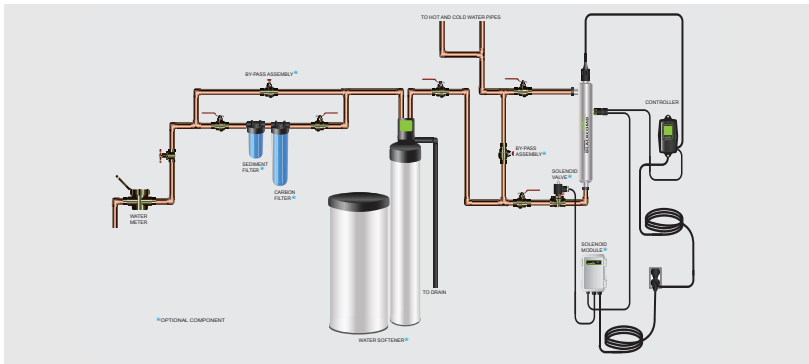
Point-of-Use (POU)

LB5/6-02 series, for flow rates of 8 lpm (2 gpm)
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Typical POE Installation



BLACKCOMB 5.1/6.1 SO - Equipment Specifications

BLACKCOMB (standard-output)						
Model	LB5-021 LB6-021	LB5-031 LB6-031	LB5-061 LB6-061	LB5-101 LB6-101	LB5-151 LB6-151	LB5-201 LB6-201
Flow Rate (30mJ/cm ² @ 95% UVT)	2 GPM	3 GPM	6 GPM	11 GPM	15 GPM	21 GPM
	7.6 lpm	11.4 lpm	22.7 lpm	41 lpm	57 lpm	79 lpm
	0.45 m ³ /hr	0.7 m ³ /hr	1.4 m ³ /hr	2.5 m ³ /hr	3.4 m ³ /hr	4.8 m ³ /hr
Flow Rate (40mJ/cm ² @ 95% UVT)	1.6 GPM	2.4 GPM	4.4 GPM	8.3 GPM	12 GPM	16 GPM
	6.1 lpm	9.1 lpm	17 lpm	31 lpm	45.4 lpm	59 lpm
	0.36 m ³ /hr	0.5 m ³ /hr	1.0 m ³ /hr	1.9 m ³ /hr	2.7 m ³ /hr	3.6 m ³ /hr
Flow Rate (16mJ/cm ² @ 95% UVT)	4 GPM	6 GPM	11 GPM	20 GPM	30 GPM	39 GPM
	15.1 lpm	23 lpm	41 lpm	77 lpm	114 lpm	150 lpm
	0.9 m ³ /hr	1.4 m ³ /hr	2.5 m ³ /hr	4.6 m ³ /hr	6.8 m ³ /hr	8.9 m ³ /hr
Port Size	½" FNPT	½" MNPT	¾" MNPT	¾" MNPT	1" MNPT	1" MNPT
Electrical	90-265V/50-60Hz. / 12VDC / 24VDC as indicated					
Plug Type	American, Nema 5/15, 3 wire for all 110V systems, "1" suffix (i.e. LB5-101) European, CEE 7/7, 3 wire for all 230V systems, "2" suffix (i.e. LB5-102) British Standard, BS 1363, 3 wire for all 230V systems, "3" suffix (i.e. LB5-103) Australian/New Zealand, AS/NZ 3112, 3 wire for all 230V systems, "4" suffix (i.e. LB5-104)					
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Maximum Current (amps)	1	1	1	1	1	1
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Controller Dimensions	17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4")					
Operating Pressure	7-10.3 bar (10-150 psi)					
Operating Water Temp.	2-40° C (36 - 104°F)					
UV Monitor	YES on LB6 (optional on LB5), RS-B2.5					RS-B3.9 <small>optional on LB5</small>
Solenoid Output	YES (but requires optional solenoid module) (MOD-SOL)					
Dry Contacts	YES (but requires optional remote alarm module) (MOD-RAM)					
4-20mA Output	YES (but requires optional 4-20mA module) (MOD-420)					
Lamp Change Reminder	YES (both audible and visual (full colour graphic))					
Lamp Out Indicator	YES (both audible and visual (full colour graphic))					
Shipping Weight	3.0 kg (6.6 lbs)	3.3 kg (7.3 lbs)	4.2 kg (9.3 lbs)	6.8 kg (15.0 lbs)	8.0 kg (17.6 lbs)	7.5 kg (16.5 lbs)

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Optional Equipment Modules

UV Concierge

Available for WEB, iOS, and Android platforms providing live, dynamic feedback on all features and functions of your UV system.



SHERPA Series Water Quality Monitor

Installs on LUMINOR UV 5/6 systems and allows for remote monitoring of all major and minor alarms that take place on the main UV system. Three LED's visually display system functionality from up to 150' (46m) away.



Custom Dealer Programmer

Customize your UV controller with your own company name, logo, website, QR code and contact information. Capture the lucrative replacement lamp market by creating a direct link back to your own website!



UV Sensor Module

Allows the 254nm UV wavelength to be measured and displayed via the controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all reactors. (see chart for part numbers)



Solenoid Module

Used to power a remote normally closed solenoid valve (not included). Solenoid will close on lamp failure or when low UV conditions are detected by the sensor. Available in 110V. (MOD-SOL1) or 230V. (MOD-SOL2)



TRV (temperature management relief valve)

TRV allows for a small amount of water to be physically released (dumped) from the UV unit to allow for cooling of the water. Used in applications of extended "no flow" conditions, or when the temperature of the treated water is of a critical nature.



4-20mA Module

Used for signal transfer to a remote device such as a data logger or computer. Order MOD-420.



Remote Alarm (Dry Contact) Module

Used for signal transfer to a remote alarm or dry contacts. Order MOD-RAM.



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