

# 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 displaying the output via a colour screen. 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



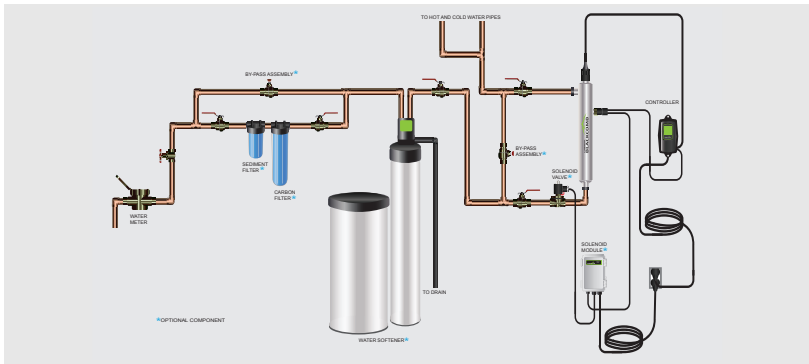
### Point-of-Use (POU)

**LB5/6-02 series**, for flow rates of 8 lpm (2 gpm)  
**LB5/6-03 series**, for flow rates of 11 lpm (3 gpm)

### Point-of-Entry (POE)

**LB5/6-06 series**, for flow rates of 23 lpm (6 gpm)  
**LB5/6-10 series**, for flow rates of 41 lpm (11 gpm)  
**LB5/6-15 series**, for flow rates of 57 lpm (15 gpm)  
**LB5/6-20 series**, for flow rates of 79 lpm (21 gpm)

## 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 <sup>2</sup> @ 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 <sup>3</sup> /hr	0.7 m <sup>3</sup> /hr	1.4 m <sup>3</sup> /hr	2.5 m <sup>3</sup> /hr	3.4 m <sup>3</sup> /hr	4.8 m <sup>3</sup> /hr
Flow Rate (40mJ/cm <sup>2</sup> @ 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 <sup>3</sup> /hr	0.5 m <sup>3</sup> /hr	1.0 m <sup>3</sup> /hr	1.9 m <sup>3</sup> /hr	2.7 m <sup>3</sup> /hr	3.6 m <sup>3</sup> /hr
Flow Rate (16mJ/cm <sup>2</sup> @ 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 <sup>3</sup> /hr	1.4 m <sup>3</sup> /hr	2.5 m <sup>3</sup> /hr	4.6 m <sup>3</sup> /hr	6.8 m <sup>3</sup> /hr	8.9 m <sup>3</sup> /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)					
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
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	6.8 x 3.6 x 3" (17.2 x 9.2 x 7.6 cm)					
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-B3.5 optional on LB5
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)

### 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.

## 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 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.



### Cooling Fan

To reduce water temperature inside the reactor through mechanics and convection without wasting any water. Runs independently and continuously. Comes with a compact modular power adapter with interchangeable AC clips that operates from 90-264V (47-63Hz.)



### 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.\*



\* Available on 5.1 / 6.1 systems only.

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