

# BLACKCOMB<sup>6.0</sup>

Models LB6-061, LB6-062, LB6-101, LB6-102, LB6-201, LB6-202



## CONTROL YOUR OWN WATER QUALITY!

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<sup>6.0</sup> 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<sup>6.0</sup> provides the ultimate in UV protection for your home with the inclusion of a true 254nm Teflon<sup>®</sup> 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

- True 254nm Teflon<sup>®</sup> based UV sensor continuously measures UV output and visually displays output via the controller
- Colour user interface with full diagnostics and warnings including QR codes
- “Future-proof” expandability port for future upgrades and options
- Single ended, 304 stainless steel reactors
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm<sup>2</sup>
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- True gland seal retaining nut with positive stop
- Reliable, industry proven low pressure (LP) coated UV lamps with ceramic bases for durability and a 9000 hour life (1 year)
- Constant current electronic controller (one controller for all systems) in a splash-proof case

### Sample Screen Shots



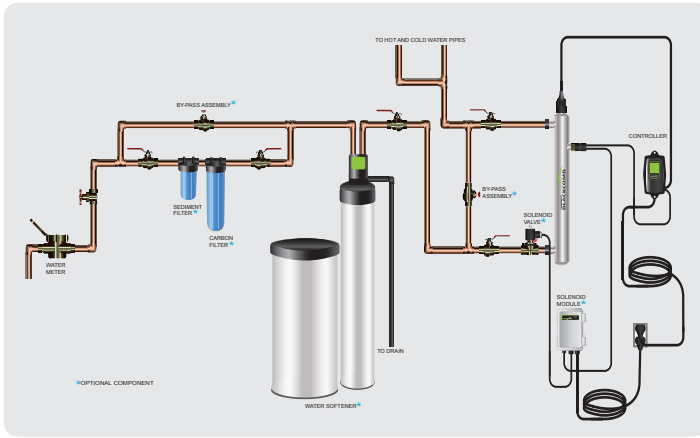
Home Screen    UV Output Screen    Lamp Life Remaining Screen    Lamp Expiration Screen    Unsafe Water Screen    QR Code Screen

### Available Systems

#### Point-of-Entry (POE)

**LB6-061 LB6-062**, for flow rates of 22 lpm (6 gpm)  
**LB6-101 LB6-102**, for flow rates of 41 lpm (10 gpm)  
**LB6-201 LB6-202**, for flow rates of 79 lpm (20 gpm)

## Typical POE Installations



## BLACKCOMB<sup>6.0</sup> - Equipment Specifications

### BLACKCOMB<sup>6.0</sup>, Residential UV Systems, UV Monitored

Model	LB6-061	LB6-062	LB6-101	LB6-102	LB6-151	LB6-152
Flow Rate (@16mJ/cm <sup>2</sup> )	11 GPM	20 GPM	39 GPM			
	42 lpm	77 lpm	150 lpm			
Flow Rate (@30mJ/cm <sup>2</sup> )	2.5 m <sup>3</sup> /hr	4.6 m <sup>3</sup> /hr	8.9 m <sup>3</sup> /hr			
	5.8 GPM	11 GPM	21 GPM			
Flow Rate (@40mJ/cm <sup>2</sup> )	22 lpm	41 lpm	79 lpm			
	1.3 m <sup>3</sup> /hr	2.5 m <sup>3</sup> /hr	4.8 m <sup>3</sup> /hr			
Flow Rate (@40mJ/cm <sup>2</sup> )	4.4 GPM	8.2 GPM	16 GPM			
	17 lpm	31 lpm	59 lpm			
Port Size	3/4" MNPT	3/4" MNPT	1" MNPT			
	1.0 m <sup>3</sup> /hr	1.9 m <sup>3</sup> /hr	3.6 m <sup>3</sup> /hr			
Electrical	American, 110V/ 50-60Hz	European, 220V/ 50-60Hz	American, 110V/ 50-60Hz	European, 220V/ 50-60Hz	American, 110V/ 50-60Hz	European, 220V/ 50-60Hz
Plug Type	American, Nema 5/15, 3 prong grounded	European, 2-pin (CEE 7/7) "Schuko"	American, Nema 5/15, 3 prong grounded	European, 2-pin (CEE 7/7) "Schuko"	American, Nema 5/15, 3 prong grounded	European, 2-pin (CEE 7/7) "Schuko"
Lamp Watts	22	39	42			
Power (Watts)	30	49	51			
Chamber Material	304 Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated					
Reactor Dimensions	2.5 x 20.5" (6.4 x 52.2cm)	2.5 x 34.3" (6.4 x 87.2cm)	3.5 x 38.1" (8.9 x 91.7cm)			
Controller Dimensions	6.8 x 3.6 x 3" (17.2 x 9.2 x 7.6cm)					
Maximum Operating Pressure	8.6 bar (125 psi)					
Operating Temperature Range	2-40° C (36-104° F)					
UV Monitor	Yes					
Solenoid Output	Optional					
4-20mA Output	Optional					
Lamp Change Reminder (audible & visual)	Yes					
Lamp Out Indicator (audible & visual)	Yes					
Shipping Weight	4.2 kg (9.2 lbs)	6.8 kg (15.0 lbs)	7.5 kg (16.5 lbs)			

## System Includes

### UV Sensor Module



Allows the 254nm UV wavelength to be measured and displayed via the BLACKCOMB<sup>6.0</sup> controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all BLACKCOMB<sup>6.0</sup> reactors.

## Optional Upgrade Modules

### 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**)

### 4-20mA Module



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

## Manufacturer's Warranty

LUMINOR UV systems are covered by the following 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

Please refer to LUMINOR's complete warranty document for specific details, including conditions and exclusions. This document may be found on the web or by contacting LUMINOR directly.

## Replacement Parts

System	Lamps	Sleeves	Controller
<b>LB6-061</b>	RL-470	RQ-470	RC-B56.01
<b>LB6-062</b>	RL-470	RQ-470	RC-B56.02
<b>LB6-101</b>	RL-820	RQ-820	RC-B56.01
<b>LB6-102</b>	RL-820	RQ-820	RC-B56.02
<b>LB6-201</b>	RL-850	RQ-850	RC-B56.01
<b>LB6-202</b>	RL-850	RQ-850	RC-B56.02



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