

# BLACKCOMB<sup>5.0</sup>

Models LB5-031, LB5-032, LB5-061, LB5-062, LB5-101, LB5-102, LB5-201, LB5-202



## 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>5.0</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*.

Truly modular in design, BLACKCOMB<sup>5.0</sup> allows easy upgradeability in the future. Want to wait to install a UV monitor? ... no problem with BLACKCOMB<sup>5.0</sup> POE systems. Flexibility plus a colour user interface with a multitude of screens displaying diagnostics, status, warnings and even QR codes for a link back to LUMINOR's website, the BLACKCOMB<sup>5.0</sup> systems introduce technology never before seen in a UV system!

### Product Features

- Colour user interface with full diagnostics and warnings including QR codes
- "Future-proof" expandibility port for future upgrades and options
- Single ended, 304 stainless steel, polished reactors. POE systems include an integral sensor port to allow for sensor upgradeability in the future
- 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)
- 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



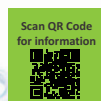
Lamp Life Remaining Screen



Lamp Expiration Screen



Unsafe Water Screen



QR Code Screen

### Available Systems

#### Point-of-Use (POU)

**LB5-031, LB5-032** for flow rates of 12 lpm (3 gpm)

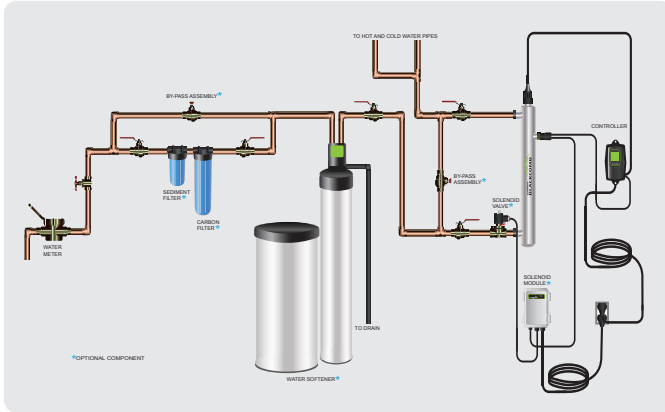
#### Point-of-Entry (POE)

**LB5-061 LB5-062**, for flow rates of 22 lpm (6 gpm)

**LB5-101 LB5-102**, for flow rates of 41 lpm (10 gpm)

**LB5-201 LB5-202**, for flow rates of 79 lpm (20 gpm)

## Typical POE Installations



## BLACKCOMB<sup>5.0</sup> - Equipment Specifications

BLACKCOMB<sup>5.0</sup>, Residential UV Systems, modular, non-monitored

Model	LB5-031	LB5-032	LB5-061	LB5-062	LB5-101	LB5-102	LB5-201	LB5-202
Flow Rate (@15mJ/cm <sup>2</sup> )	6.1 GPM		11 GPM		20 GPM		39 GPM	
	23 lpm		42 lpm		77 lpm		150 lpm	
	1.4 m <sup>3</sup> /hr		2.5 m <sup>3</sup> /hr		4.6 m <sup>3</sup> /hr		8.9 m <sup>3</sup> /hr	
Flow Rate (@30mJ/cm <sup>2</sup> )	3.1 GPM		5.8 GPM		11 GPM		21 GPM	
	12 lpm		22 lpm		41 lpm		79 lpm	
	0.7 m <sup>3</sup> /hr		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> )	2.4 GPM		4.4 GPM		8.2 GPM		16 GPM	
	9.1 lpm		17 lpm		31 lpm		59 lpm	
	0.5 m <sup>3</sup> /hr		1.0 m <sup>3</sup> /hr		1.9 m <sup>3</sup> /hr		3.6 m <sup>3</sup> /hr	
Port Size	½" MNPT		¾" MNPT		¾" MNPT		1" MNPT	
Electrical	110V/ 50-60Hz	220V/ 50-60Hz	110V/ 50-60Hz	220V/ 50-60Hz	110V/ 50-60Hz	220V/ 50-60Hz	110V/ 50-60Hz	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"	American, Nema 5/15, 3 prong grounded	European, 2-pin (CEE 7/7) "Schuko"
Lamp Watts	15		22		39		42	
Power (Watts)	20		30		49		51	
Chamber Material	304 Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated							
Reactor Dimensions	2.5 x 13.5" (6.4 x 34.2cm)		2.5 x 20.5" (6.4 x 52.2cm)		2.5 x 34.3" (6.4 x 87.2cm)		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 7.6cm)							
Maximum Operating Pressure	8.6 bar (125 psi)							
Operating Temperature Range	2-40° C (36-104° F)							
UV Monitor Port (upgradeability)	No		Yes					
Solenoid Output	Optional							
4-20mA Output	Optional							
Lamp Change Reminder (audible & visual)	Yes							
Lamp Out Indicator (audible & visual)	Yes							
Shipping Weight	3.5 kg (7.7 lbs)		4.2 kg (9.2 lbs)		6.8 kg (15.0 lbs)		7.4 kg (16.4 lbs)	

## 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**)

### 4-20m Module



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

### UV Sensor Module



Allows the 254nm UV wavelength to be measured and displayed via the BLACKCOMB<sup>5.0</sup> controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all BLACKCOMB<sup>5.0</sup> POE reactors. Order **RS-B2.5** for 6 & 10 gpm systems and **RS-B3.5** for 20 gpm systems.

## 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>LB5-031</b>	RL-290	RQ-290	RC-B56.01
<b>LB5-032</b>	RL-290	RQ-290	RC-B56.02
<b>LB5-061</b>	RL-470	RQ-470	RC-B56.01
<b>LB5-062</b>	RL-470	RQ-470	RC-B56.02
<b>LB5-101</b>	RL-820	RQ-820	RC-B56.01
<b>LB5-102</b>	RL-820	RQ-820	RC-B56.02
<b>LB5-201</b>	RL-850	RQ-850	RC-B56.01
<b>LB5-202</b>	RL-850	RQ-850	RC-B56.02



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