

# BLACKCOMB<sup>5.0</sup>

Models LB5-031, LB5-061, LB5-101, LB5-151, LB5-201



## 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.

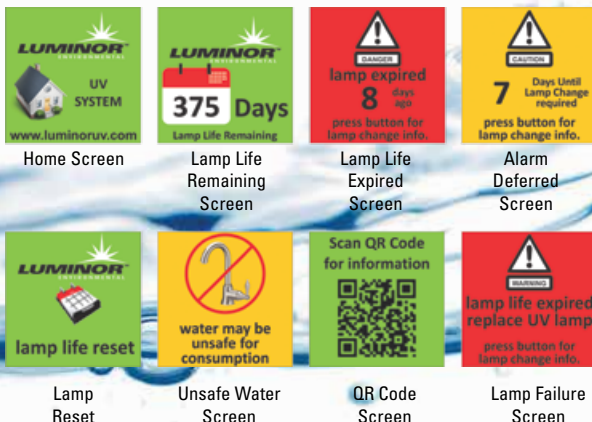
UV technology is proven to control microbiological (bacteria & virus) issues in water including *E.coli*, *Cryptosporidium* and *Giardia lamblia*.

Truely modular in design, BLACKCOMB<sup>5.0</sup> provides easy upgradeability in the future. Incorporating true "plug-and-play" technology, conversion to a UV monitor is a quick and simple process. A robust full colour controller displays complete system status, lamp countdown, warnings, and a QR code that allows the homeowner to use their smartphone to obtain lamp replacement information or to view service videos! BLACKCOMB incorporates technology that has never been seen in a UV system until now!

### Product Features

- Colour user interface with full diagnostics and warnings including QR codes
- Full customization available as an option (language, home screen, phone, web, QR codes, etc.)
- New axial flow, 304 stainless steel reactors, fully polished, designed & manufactured to ASME pressure vessel standard
- Systems include integral UV sensor port for future upgradeability (simply purchase optional UV sensor module to convert system into a fully UV monitored system)
- 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, proprietary low pressure (LP) coated UV lamps with ceramic bases for durability and a 9,000 hour life (1 year)
- Constant current electronic controller (one controller for all systems) in a splash-proof case, fully potted ballast virtually eliminates common water damage issue

### Sample Screen Shots

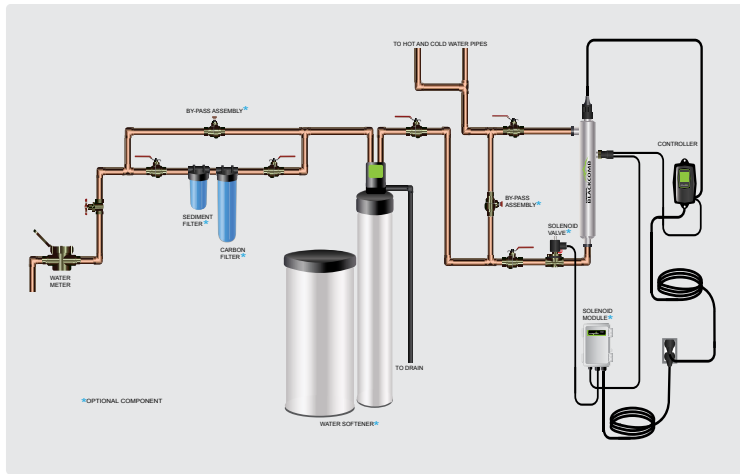


### Available Systems

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

- LB5-031 series**, for flow rates of 12 lpm (3 gpm)
- LB5-061 series**, for flow rates of 23 lpm (6 gpm)
- LB5-101 series**, for flow rates of 41 lpm (11 gpm)
- LB5-151 series**, for flow rates of 57 lpm (15 gpm)
- LB5-201 series**, for flow rates of 79 lpm (21 gpm)

# Typical POE Installations



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

BLACKCOMB <sup>5.0</sup> , Residential UV Systems, UV Monitored					
Model	LB5-031	LB5-061	LB5-101	LB5-151	LB5-201
Flow Rate (@16mJ/cm <sup>2</sup> )	6 GPM	11 GPM	20 GPM	30 GPM	39 GPM
	23 lpm	41 lpm	77 lpm	114 lpm	150 lpm
	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
Flow Rate (@30mJ/cm <sup>2</sup> )	3 GPM	6 GPM	11 GPM	15 GPM	21 GPM
	11.4 lpm	22.7 lpm	41 lpm	57 lpm	79 lpm
	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> )	2.4 GPM	4.4 GPM	8.3 GPM	12 GPM	16 GPM
	9.1 lpm	17 lpm	31 lpm	45.4 lpm	59 lpm
	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
Port Size	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. 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	15	22	39	50	42
Power (Watts)	20	30	49	62	51
Chamber Material	304 Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated				
Reactor Dimensions	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)
Controller Dimensions	6.8 x 3.6 x 3" (17.2 x 9.2 x 7.6 cm)				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temperature	2-40° C (36-104° F)				
UV Monitor Port	No	Yes (optional UV sensor module sold separately)			
Solenoid Output	Yes (but requires optional solenoid module) (activated on lamp failure)				
Dry Contacts	Yes (but requires optional remote alarm module)				
4-20mA Output	Yes (but requires optional 4-20mA module)				
Lamp Change Reminder (audible & visual)	Yes				
Lamp Out Indicator (audible & visual)	Yes				
Shipping Weight	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)

## Optional Upgrade Modules

### UV Sensor Module



Allows the 254nm UV wavelength to be measured and displayed via the BLACKCOMB controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all BLACKCOMB<sup>5.0</sup> or BLACKCOMB<sup>6.0</sup> reactors. Order **RS-B2.5** for 6, 10 & 15 gpm systems and **RS-B3.5** for 20 gpm systems.

### 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**

### Remote Alarm (Dry Contact) Module



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

## 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

## Optional Custom Dealer Programming Module



Contact factory for an exciting opportunity that will allow you to 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! This technology is **ONLY** available from LUMINOR.

## Replacement Parts

System	Lamps	Sleeves	UV Sensor (optional)
<b>LB5-031</b>	RL-290	RQ-290	RS-B2.5
<b>LB5-061</b>	RL-470	RQ-470	RS-B2.5
<b>LB5-101</b>	RL-820	RQ-820	RS-B2.5
<b>LB5-151</b>	RL-999	RQ-999	RS-B2.5
<b>LB5-201</b>	RL-850	RQ-850	RS-B3.5



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