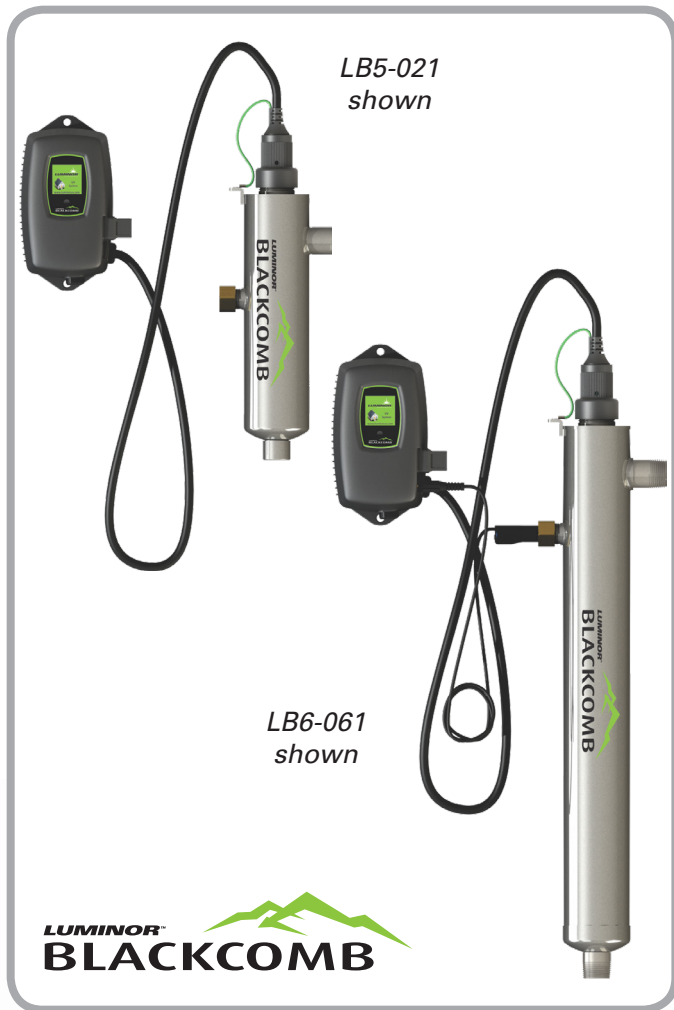


# BLACKCOMB<sup>5.1</sup> / BLACKCOMB<sup>6.1</sup>

Models LB5/6-02 (12V & 24V), LB5/6-03 (12V & 24V), LB5/6-06 (12V & 24V), LB5/6-10 (24V), LB5/6-15, LB5/6-20



## 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 series of residential UV systems.

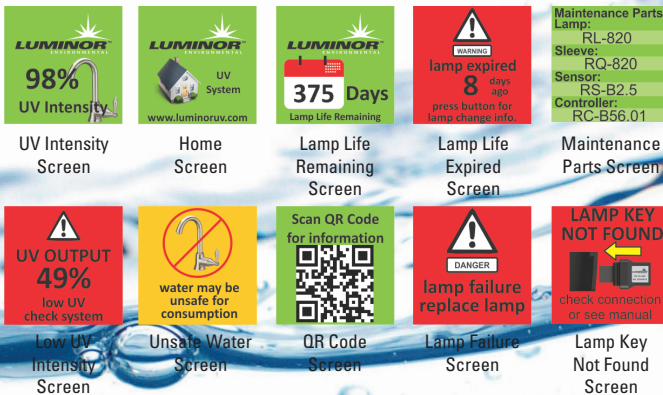
UV technology is proven to control microbiological (bacteria & virus) issues in water including *E.coli*, *Cryptosporidium* and *Giardia lamblia*.

BLACKCOMB provides the ultimate in UV protection for your home with the inclusion of a true 254nm Teflon<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

- Free floating (no cable twist), keyed-in-place, 254nm Teflon<sup>®</sup> based UV sensor continuously measures and displays UV output (as a %) (std. on LB6, optional on LB5)
- NEW colour screen controller with Lightlock<sup>™</sup> 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, QR codes, etc.)

### Sample Screen Shots



### Available Systems

#### 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)

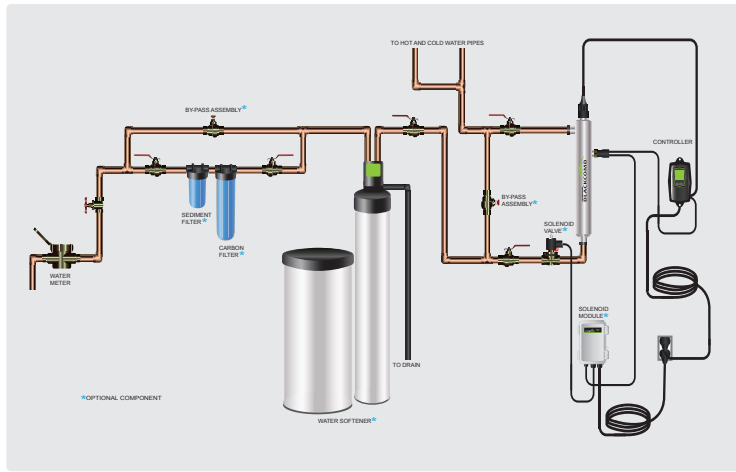
**LB5/6-06 series**, for flow rates of 23 lpm (6 gpm)

**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 Installations



## BLACKCOMB - Equipment Specifications

SPECIFICATIONS	BLACKCOMB (standard-output)					
Model	LB5-021 LB6-021 LB5/6-02-12V LB5/6-02-24V	LB5-031 LB6-031 LB5/6-03-12V LB5/6-03-24V	LB5-061 LB6-061 LB5/6-06-12V LB5/6-06-24V	LB5-101 LB6-101 LB5/6-10-24V LB6-10-24V	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
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 systems (optional on LB5 systems)					
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)

## System Includes

### 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>51</sup> or BLACKCOMB<sup>61</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

### 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
- UV SENSORS - 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
LB5/6-021	RL-210	RQ-210	RS-B2.5
LB5/6-031	RL-290	RQ-290	RS-B2.5
LB5/6-061	RL-470	RQ-470	RS-B2.5
LB5/6-101	RL-820	RQ-820	RS-B2.5
LB5/6-151	RL-999	RQ-999	RS-B2.5
LB5/6-201	RL-850	RQ-850	RS-B3.5



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Carbon Neutral



EPA Establishment #088776-CAN-001