

LUMINOR™

BLACKCOMB

4.1

## UV WATER TREATMENT SYSTEM

- 2 to 21 GPM
- Multi-function display controller
- Simple lamp replacement

If you are looking for UV water treatment for your home, LUMINOR has the solution in the BLACKCOMB series of residential UV systems.

Designed for easy, do-it-yourself installation, a BLACKCOMB 4.1 system can be installed on a single tap, or for whole-home water treatment, installed at the point-of-entry, thereby treating all the water coming into the home.

### PRODUCT FEATURES

- Integral lamp life monitor, with both audible and visual indication of lamp life
- Axial flow, 304 stainless steel polished reactors,
- Visual sight port for "lamp-on" verification
- Designed & manufactured to ASME pressure vessel standards
- Flow rates stated at 95% UVT at a dose of 30mJ/cm<sup>2</sup>
- True gland seal retaining nut with positive stop
- Simple lamp changes
- Reliable, proprietary low pressure (LP) coated UV lamps with ceramic bases for durability and long life
- Constant current electronic controller in a splash proof case
- Audible & visual lamp failure indicators
- Tactile selector button

### POINT-OF-USE (POU)

**LB4-02 series**, for flow rates of 8 lpm (2 gpm)

**LB5-03 series**, for flow rates of 11 lpm (3 gpm)

### POINT-OF-ENTRY (POE)

**LB4-06 series**, for flow rates of 23 lpm (6 gpm)

**LB4-10 series**, for flow rates of 41 lpm (11 gpm)

**LB4-15 series**, for flow rates of 57 lpm (15 gpm)

**LB4-20 series**, for flow rates of 79 lpm (21 gpm)

### MANUFACTURER'S WARRANTY

**REACTORS**—Ten (10) year Limited Warranty

**ELECTRONICS**—Three (3) year Limited Warranty

**UV LAMPS**—One (1) year Limited Warranty

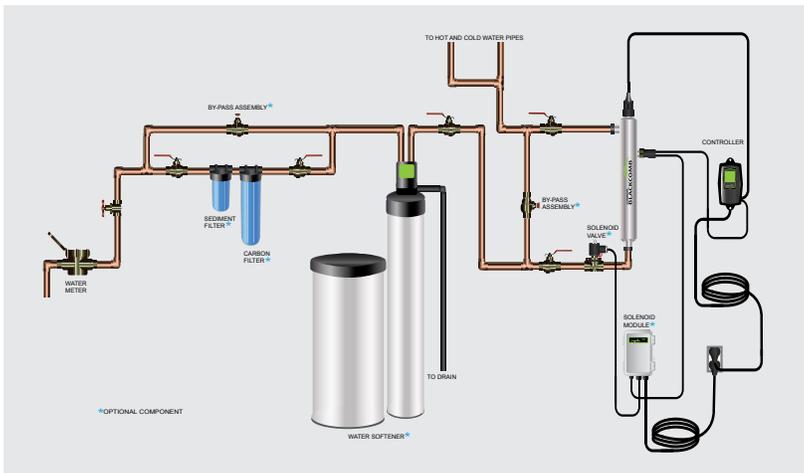
**QUARTZ SLEEVES**—One (1) year Limited Warranty



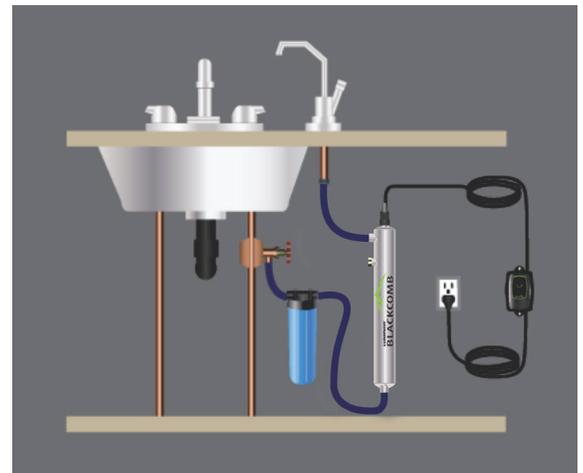
See [luminoruv.com](http://luminoruv.com) for complete warranty document, including conditions and exclusions.



## TYPICAL POE INSTALLATION



## TYPICAL POU INSTALLATION



## BLACKCOMB 4.1 SO - EQUIPMENT SPECIFICATIONS

### BLACKCOMB (STANDARD-OUTPUT)

Model	LB4-021	LB4-031	LB4-061	LB4-101	LB4-151	LB4-201
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.					
Plug Type	American, Nema 5/15, 3 wire for all 110V systems, "1" suffix (i.e. LB4-101) European, CEE 7/7, 3 wire for all 230V systems, "2" suffix (i.e. LB4-102) British Standard, BS 1363, 3 wire for all 230V systems, "3" suffix (i.e. LB4-103) Australian/New Zealand, AS/NZ 3112, 3 wire for all 230V systems, "4" suffix (i.e. LB4-104)					
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
Replacement Controller	RC-B4.01					
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	17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4")					
Operating Pressure	0.7-10.3 bar (10-150 psi)					
Operating Water Temp.	2-40° C (36 - 104°F)					
Lamp Change Reminder	YES (4-digit LED display)					
Visual Lamp Out Indicator	YES					
Audible Lamp Out Indicator	YES					
Shipping Weight	2.9 kg (6.3 lbs)	3.6 kg (7.9 lbs)	4.4 kg (9.6 lbs)	6.0 kg (13.2 lbs)	6.5 kg (14.4 lbs)	8.2 kg (18.0 lbs)

## CONDITIONS FOR USE

Your system will provide years of use provided the system is maintained on a regular basis as per the specifications outlined in the Owner's Manual. For the following system to perform as tested, the following water quality parameters must be met.

PARAMETER	LEVEL
Hardness	< 120 mg/L (7 gpg)
Iron (Fe)	< 0.3 mg/L (ppm)
Manganese (Mn)	< 0.05 mg/L (ppm)
Tannins	< 0.1 mg/L (ppm)
Turbidity	< 1 NTU
Transmittance	> 75% UVT

For levels outside those specified in the table above, please contact the factory for further technical assistance.



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EPA Establishment  
#088776-CAN-001



Carbon  
Neutral

