

LUMINOR™

BLACKCOMB

HO 4.1

## UV WATER TREATMENT SYSTEM

- 5 to 40 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-HO 4.1 series of residential UV systems.

Designed for easy, do-it-yourself installation, a BLACKCOMB-HO 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, 316L 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-HO) 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)

**LBH4-05 series**, for flow rates of 19 lpm (5 gpm)

### POINT-OF-ENTRY (POE)

**LBH4-10 series**, for flow rates of 38 lpm (10 gpm)

**LBH4-15 series**, for flow rates of 57 lpm (15 gpm)

**LBH4-25 series**, for flow rates of 95 lpm (25 gpm)

**LBH4-40 series**, for flow rates of 151 lpm (40 gpm)

### MANUFACTURER'S WARRANTY

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

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

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

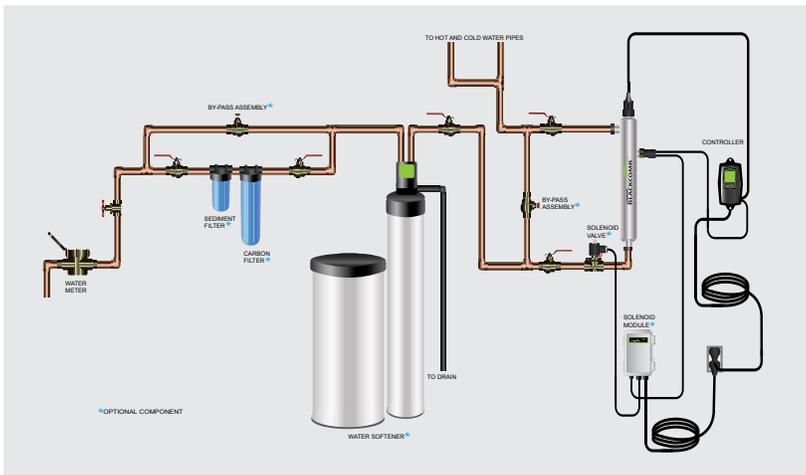
**QUARTZ SLEEVES**—One (1) year Limited Warranty



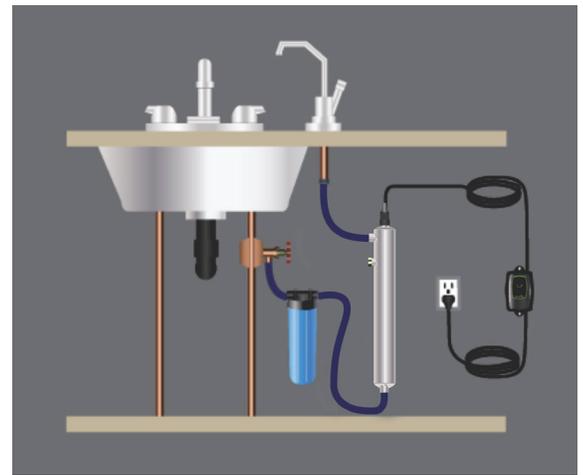
See [luminoruv.com](http://luminoruv.com) for complete warranty document, including conditions and exclusions.



## TYPICAL POE INSTALLATION



## TYPICAL POU INSTALLATION



## BLACKCOMB 4.1 HO - EQUIPMENT SPECIFICATIONS

BLACKCOMB (HIGH-OUTPUT)					
Model	LBH4-051	LBH4-101	LBH4-151	LBH4-251	LBH4-401
Flow Rate (30mJ/cm <sup>2</sup> @ 95% UVT)	5 GPM	10 GPM	15 GPM	25 GPM	40 GPM
	18.9 lpm	37.9 lpm	57 lpm	95 lpm	151 lpm
	1.1 m <sup>3</sup> /hr	2.3 m <sup>3</sup> /hr	3.4 m <sup>3</sup> /hr	5.7 m <sup>3</sup> /hr	9.3 m <sup>3</sup> /hr
Flow Rate (16mJ/cm <sup>2</sup> @ 95% UVT)	8 GPM	19 GPM	27 GPM	47 GPM	78 GPM
	30.3 lpm	71.9 lpm	102.2 lpm	178 lpm	295 lpm
	1.8 m <sup>3</sup> /hr	4.3 m <sup>3</sup> /hr	6.1 m <sup>3</sup> /hr	10.7 m <sup>3</sup> /hr	17.7 m <sup>3</sup> /hr
Flow Rate (40mJ/cm <sup>2</sup> @ 95% UVT)	3 GPM	7 GPM	11 GPM	19 GPM	31 GPM
	11.4 lpm	26.5 lpm	41 lpm	72 lpm	117 lpm
	0.7 m <sup>3</sup> /hr	1.6 m <sup>3</sup> /hr	2.5 m <sup>3</sup> /hr	4.3 m <sup>3</sup> /hr	7.0 m <sup>3</sup> /hr
Port Size	1/2"MNPT	3/4"MNPT	1"MNPT	1"MNPT	1 1/2"MNPT
Electrical	90-265V/50-60Hz. (IEC power cord required)				
Plug Type	American, Nema 5/15, 3 wire for all 110V systems, "1" suffix (i.e. LBH4-101) European, CEE 7/7, 3 wire for all 230V systems, "2" suffix (i.e. LBH4-102) British Standard, BS 1363, 3 wire for all 230V systems, "3" suffix (i.e. LBH4-103) Australian/New Zealand, AS/NZ 3112, 3 wire for all 230V systems, "4" suffix (i.e. LBH4-104)				
Lamp Watts	18	34	45	67	101
Power (Watts)	20 (19 @ 230V)	38 (36 @ 230V)	57 (48 @ 230V)	73 (72 @ 230V)	115 (108 @ 230V)
Replacement Lamp	RL-210HO	RL-330HO	RL-420HO	RL-600HO	RL-950HO
Replacement Sleeve	RQ-210	RQ-330	RQ-420	RQ-600	RQ-950
Chamber Material	316L Stainless Steel, A249 Pressure Rated Tubing, Polished & Passivated				
Reactor Dimensions	3.5 x 11.7" (8.9 x 29.8cm)	3.5 x 16.5" (8.9 x 41.8cm)	3.5 x 20.0" (8.9 x 50.8cm)	3.5 x 26.9" (8.9 x 68.3cm)	3.5 x 40.7" (8.9 x 103.4cm)
Controller Dimensions	21.7 x 10.8 x 10.2 cm (8.6 x 4.2 x 4")				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temperature	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	4.5 kg (9.9 lbs)	5.4 kg (11.9 lbs)	6.0 kg (13.2 lbs)	7.1 kg (15.7 lbs)	9.5 kg (21.0 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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Carbon  
Neutral



RCM  
Certification  
Available



WaterMark



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