LUMINOR™

BLACKCOMB

HO 5.1 / 6.1

CONTROL YOUR OWN WATER QUALITY!

Models: LBH5/6-051, LBH5/6-101, LBH5/6-151, LBH5/6-251, LBH5/6-401

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-HO series of residential UV systems.

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

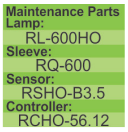
BLACKCOMB-HO provides the ultimate in UV protection for your home with the inclusion of a true 254nm Teflon® based UV sensor on 6.1 models that continuously monitors the performance of the UV system and displaying the output via a colour screen (optional on 5.1 systems). In addition to UV output, diagnostics, system status, warnings, even QR codes are included.

With the integral expandability port, the addition of an optional module (listed on the back) is a simple plug-and-play option!

Product Features

- Free floating (no cable twist), keyed-in-place, 254nm Teflon® based UV sensor (on 6.1 models) continuously measures and displays UV output (as a %)
- Colour screen controller with Lightlock™ for protected lamp replacement, includes QR codes, full diagnostics & warnings
- "Future-proof" expandability port for future upgrades and options
- Axial flow, 316L 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 high-output coated UV lamps with ceramic bases for durability and long life (10,000 hours)
- Constant current electronic controller (one controller for all LPHO 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 number, QR codes, etc.)

Sample Screens



Point-of-Use (POU)

LBH5/6-05 series, for flow rates of 19 lpm (5 gpm)

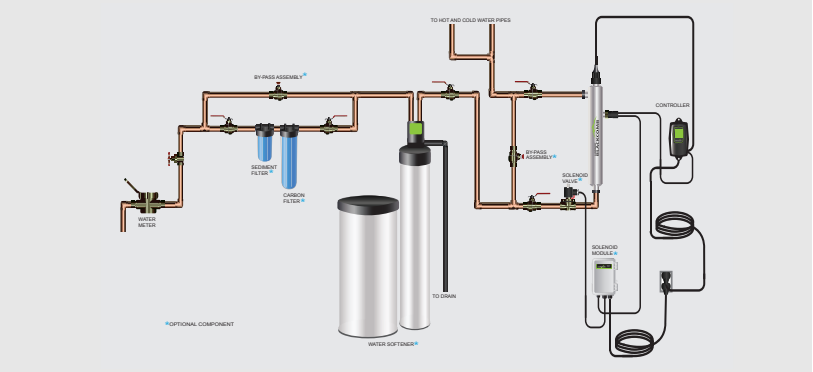
Point-of-Entry (POE)

LBH5/6-10 series, for flow rates of 38 lpm (10 gpm)
LBH5/6-15 series, for flow rates of 57 lpm (15 gpm)
LBH5/6-25 series, for flow rates of 95 lpm (25 gpm)
LBH5/6-40 series, for flow rates of 151 lpm (40 gpm)

LUMINOR™ ENVIRONMENTAL

Illuminating technologies for life

Typical POE Installation



BLACKCOMB 5.1/6.1 HO - Equipment Specifications

BLACKCOMB-HO, Multi-use UV Systems					
Model	**LBH5-051 LBH6-051**	**LBH5-101 LBH6-101**	**LBH5-151 LBH6-151**	**LBH5-251 LBH6-251**	**LBH5-401 LBH6-401**
Flow Rate (30mJ/cm²) @ 95% UVT)	5 GPM	10 GPM	15 GPM	25 GPM	40 GPM
	18.91 lpm	37.9 lpm	57 lpm	95 lpm	151 lpm
	1.1 m³/hr	2.3 m³/hr	3.4 m³/hr	5.7 ³/hr	9.3 m³/hr
Flow Rate (16mJ/cm²) @ 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 m³/hr	4.3 m³/hr	6.1 m³/hr	10.7 m³/hr	17.7 m³/hr
Flow Rate (40mJ/cm²) @ 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 m³/hr	1.6 m³/hr	2.5 m³/hr	4.3 m³/hr	7.0 m³/hr
Port Size	1/2"MNPT	¾"MNPT	1"MNPT	1"MNPT	1 1/2"MNPT
Electrical	90-265V/50-60Hz. 1.5A Max.				
Plug Type	American, Nema 5/15, 3 wire for all 110V systems, "1" suffix (i.e. LBH6-101) European, CEE 7/7, 3 wire for all 230V systems, "2" suffix (i.e. LBH6-102) British Standard, BS 1363, 3 wire for all 230V systems, "3" suffix (i.e. LBH6-103) Australian/New Zealand, AS/NZ 3112, 3 wire for all 230V systems, "4" suffix (i.e. LBH6-104)				
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 Temp	2-40° C (36-104° F)				
UV Monitor	Yes, RSHO-B3.5				
Solenoid Output	YES (but requires optional solenoid module)				
Dry Contacts	YES (but requires optional remote alarm module)				
4-20mA Output	YES (but requires optional 4-20mA module)				
Lamp Change Reminder	YES (both audible and visual (full colour graphic))				
Lamp Out Indicator	YES (both audible and visual (full colour graphic))				
Shipping Weight	4.5 kg (9.9 lbs)	5.4 kg (11.9 lbs)	6.0 kg (13.2 lbs)	7.2 kg (15.9 lbs)	9.7 kg (21.4 lbs)

Manufacturer's Warranty

BEST WARRANTY IN THE UV INDUSTRY

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 website for LUMINOR's complete warranty document including conditions and exclusions.

Optional Equipment Modules

UV Concierge
Available for WEB, iOS, and Android platforms providing live, dynamic feedback on all features and functions of your UV system.

SHERPA Series Water Quality Monitor
Allows for remote monitoring of all major and minor alarms that take place on the main UV system. Three LED's visually display system functionality from up to 150' (46m) away.

Custom Dealer Programmer
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!

UV Sensor Module
Allows the 254nm UV wavelength to be measured and displayed via the controller. The sensor plugs directly into the controller and is mounted in the sensor port located on all reactors. (see chart for part numbers)

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)

TRV (temperature management relief valve)
TRV allows for a small amount of water to be physically released (dumped) from the UV unit to allow for cooling of the water. Used in applications of extended "no flow" conditions, or when the temperature of the treated water is of a critical nature.

Cooling Fan
To reduce water temperature inside the reactor through mechanics and convection without wasting any water. Runs independently and continuously. Comes with a compact modular power adapter with interchangeable AC clips that operates from 90-264V (47-63Hz.)

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.

LUMINOR Environmental Inc.
80 Southgate Drive, Unit 4
Guelph, Ontario, CANADA
N1G 4P5

P: (519) 837-3800
TF: (855) 837-3801
F: (519) 837-3808
e-mail: info@luminoruv.com
web: www.luminoruv.com

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