



LUMINOR™ BLACKCOMB

HO 4.1

CONTROL YOUR OWN WATER QUALITY!

Models: LBH4-051, LBH4-101, LBH4-151,
LBH4-251, LBH4-401

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 4.1 series of UV systems.

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

Designed for easy do-it-yourself installation, a BLACKCOMB-HO 4.1 system is typically installed at the point-of-entry, treating all the water coming into the home.

Product Features

- Now available with 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/cm²
- True gland seal retaining nut with positive stop
- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)
- Reliable, industry proven, proprietary low pressure high output (LP-HO) coated UV lamps with ceramic bases for durability and long life (10,000 hours)
- Constant current electronic controller (one controller for all systems) in a splash proof case, fully potted ballast virtually eliminates common water damage issue
- 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)

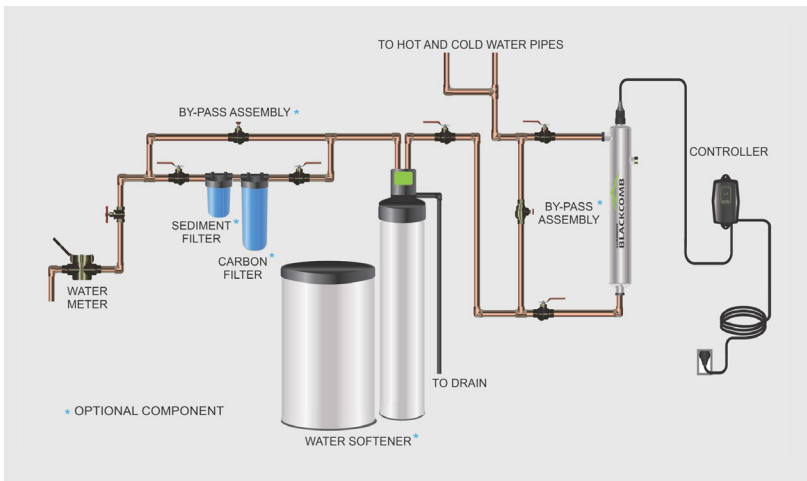
LBH4-15 series, for flow rates of 57 lpm (15 gpm)

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

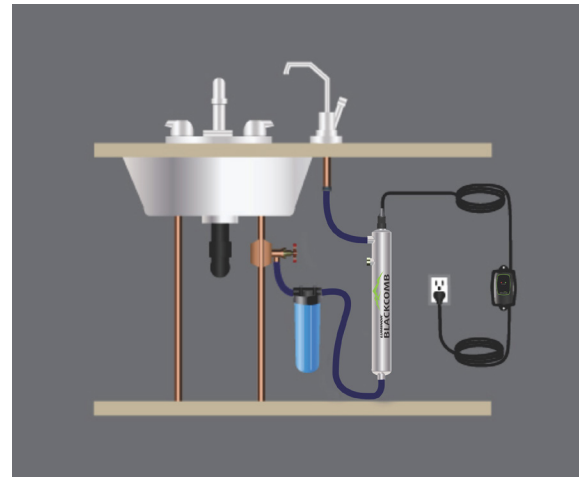
LBH4-40 series, for flow rates of 151 lpm (40 gpm)



Typical POE Installation



Typical POU Installation



BLACKCOMB 4.1 HO - Equipment Specifications

BLACKCOMB-HO, Residential UV Systems, Lamp countdown

Model	LBH4-051	LBH4-101	LBH4-151	LBH4-251	LBH4-401
Flow Rate (30mJ/cm ² @ 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 ³ /hr	2.3 m ³ /hr	3.4 m ³ /hr	5.7 m ³ /hr	9.3 m ³ /hr
Flow Rate (16mJ/cm ² @ 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 ³ /hr	4.3 m ³ /hr	6.1 m ³ /hr	10.7 m ³ /hr	17.7 m ³ /hr
Flow Rate (40mJ/cm ² @ 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 ³ /hr	1.6 m ³ /hr	2.5 m ³ /hr	4.3 m ³ /hr	7.0 m ³ /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.

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

LUMINOR Environmental Inc.

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Water
 Quality
 ASSOCIATION



INTERNATIONAL
 ULTRAVIOLET ASSOCIATION



LuminorUV



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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)

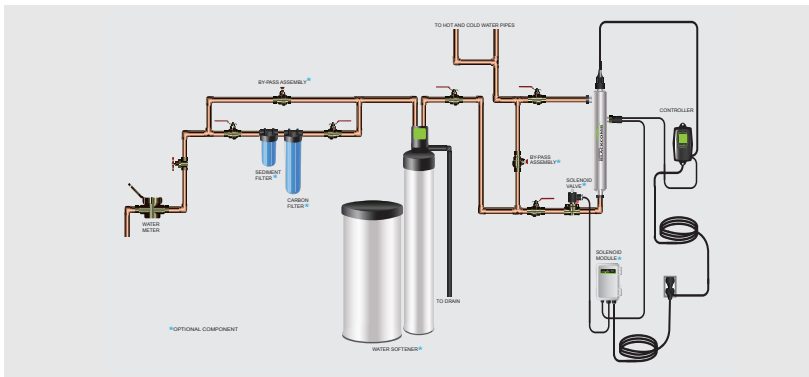
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LBH5/6-40 series, for flow rates of 151 lpm (40 gpm)

Typical POE Installation



BLACKCOMB 5.1/6.1 HO - Equipment Specifications

BLACKCOMB-HO, Multi-use UV Systems					
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Flow Rate (30mJ/cm ²) @ 95% UVT	5 GPM	10 GPM	15 GPM	25 GPM	40 GPM
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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

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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

Installs on all LUMINOR UV systems and 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.



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Watermark
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EPA Establishment
 #088776-CAN-001



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Water
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 ULTRAVIOLET ASSOCIATION



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