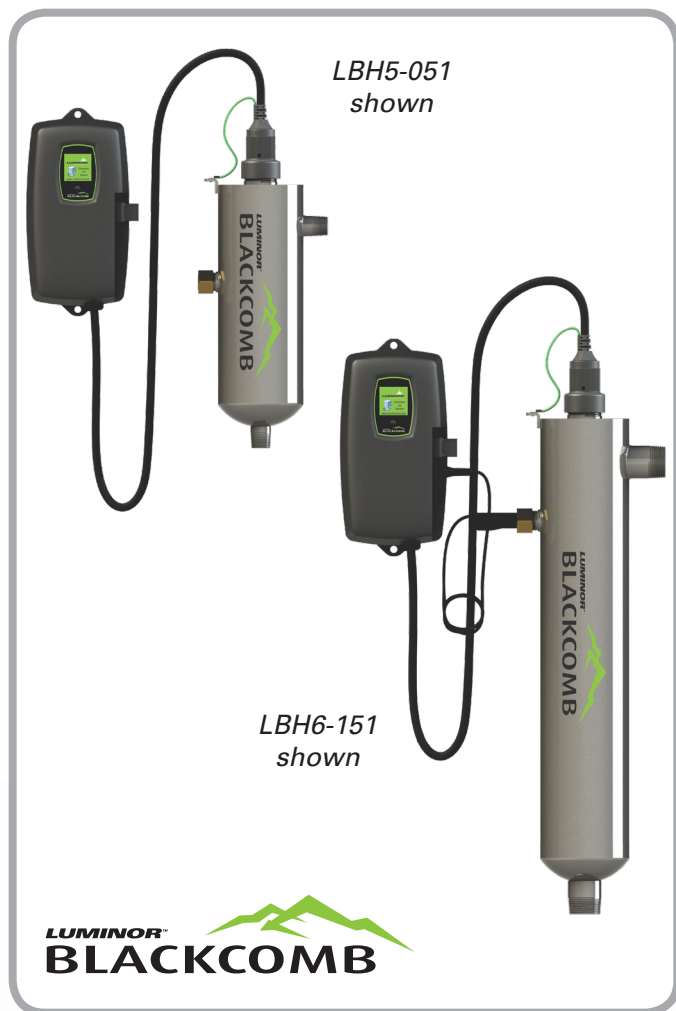


# BLACKCOMB-HO<sup>5.1</sup> / BLACKCOMB-HO<sup>6.1</sup>

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



## 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-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*.

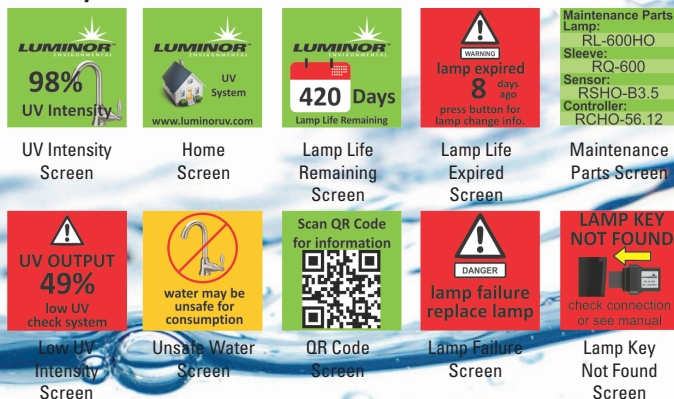
BLACKCOMB-HO provides the ultimate in UV protection for your home with the inclusion of a true 254nm Teflon® based UV sensor on 6.1 models that continuously monitors the performance of the UV system and displaying the output via a colour screen (optional on 5.1 systems). In addition to UV output, diagnostics,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

With the integral expandability port, the addition of 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® based UV sensor (on 6.1 models) continuously measures and displays UV output (as a %)
- NEW 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, QR codes, etc.)

## Sample Screen Shots

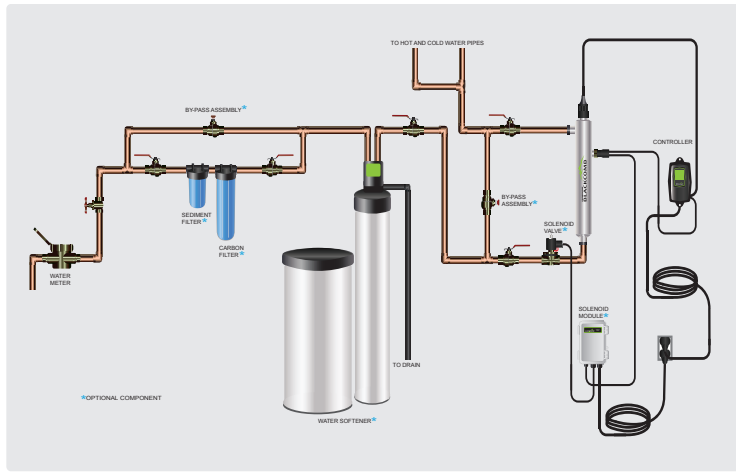


## Available Systems

### Point-of-Entry (POE)

- LBH5/6-05 series**, for flow rates of 15 lpm (4 gpm)
- LBH5/6-10 series**, for flow rates of 38 lpm (10 gpm)
- LBH5/6-15 series**, for flow rates of 53 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)

# Typical POE Installations



## BLACKCOMB - 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 (@16mJ/cm <sup>2</sup> )	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 (@30mJ/cm <sup>2</sup> )	4 GPM	10 GPM	14 GPM	25 GPM	40 GPM
	15.1 lpm	37.9 lpm	53 lpm	95 lpm	151 lpm
	1.0 m <sup>3</sup> /hr	2.3 m <sup>3</sup> /hr	3.2 m <sup>3</sup> /hr	5.7 m <sup>3</sup> /hr	9.3 m <sup>3</sup> /hr
Flow Rate (@40mJ/cm <sup>2</sup> )	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				
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)
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	8.6 x 4.2 x 3.5" (21.7 x 10.8 x 8.9cm)				
Operating Pressure	0.7-10.3 bar (10-150 psi)				
Operating Water Temperature	2-40° C (36-104° F)				
UV Monitor	Yes				
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 (audible & visual)	Yes				
Lamp Out Indicator (audible & visual)	Yes				
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)

## 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
<b>LBH5/6-051</b>	RL-210HO	RQ-210	RSHO-B3.5
<b>LBH5/6-101</b>	RL-330HO	RQ-330	RSHO-B3.5
<b>LBH5/6-151</b>	RL-420HO	RQ-420	RSHO-B3.5
<b>LBH5/6-251</b>	RL-600HO	RQ-600	RSHO-B3.5
<b>LBH5/6-401</b>	RL-950HO	RQ-950	RSHO-B3.5



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