BLACKCOMB-HO⁵·⁰

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

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-HO⁵·⁰ series of residential UV systems.
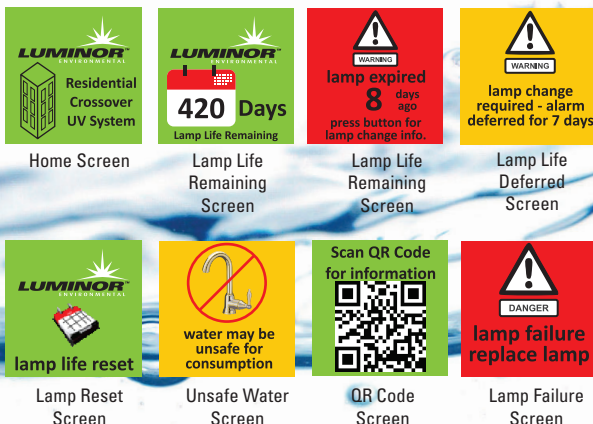
UV technology is proven to control microbiological (bacteria & virus) issues in water including *E.coli, Cryptosporidium* and *Giardia lamblia*.

Truely modular in design, BLACKCOMB-HO⁵·⁰ provides easy upgradeability in the future. Incorporating true "plug-and-play" technology, conversion to a UV monitor is a quick and simple process. A robust full colour controller displays complete system status, lamp countdown, warnings, and a QR code that allows the homeowner to use their smartphone to obtain lamp replacement information or to view service videos! BLACKCOMB-HO incorporates technology that has never been seen in a UV system until now!

Product Features

- Colour user interface with full diagnostics and warnings including QR codes

- Full customization available as an option (language, home screen, phone, web, QR codes, etc.)

- New axial flow, 316L stainless steel reactors, fully polished, designed & manufactured to ASME pressure vessel standard

- System include integral UV sensor port for future upgradeability (simply purchase optional UV sensor module to convert system into a fully UV monitored system)

- Flow rates stated at 95% UVT at a dose of 30mJ/cm²

- User friendly bayonet style lamp connector (quick ¼ turn removal with no extra tools needed)

- True gland seal retaining nut with positive stop

- Reliable, industry proven, proprietary low pressure (LP-HO) coated UV lamps with ceramic bases for durability and a 10,000 hour life (1 year)

- Constant current electronic controller (one controller for all systems) in a splash-proof case, fully potted ballast virtually eliminates common water damage issue
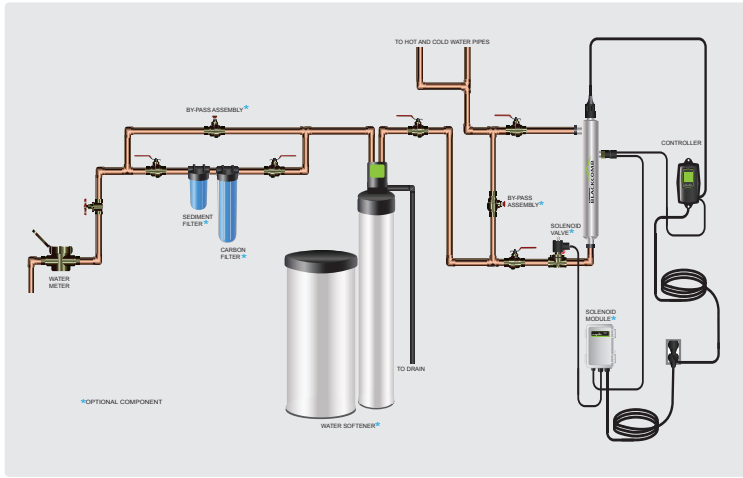
Sample Screen Shots

Residential Crossover UV System Home Screen	**420 Days** Lamp Life Remaining Lamp Life Remaining Screen	**WARNING** **lamp expired** **8** days ago press button for lamp change info. Lamp Life Remaining Screen	**WARNING** **lamp change required - alarm deferred for 7 days** Lamp Life Deferred Screen
lamp life reset Lamp Reset Screen	**water may be unsafe for consumption** Unsafe Water Screen	**Scan QR Code for information** QR Code Screen	**DANGER** **lamp failure replace lamp** Lamp Failure Screen

Available Systems

LBH5-051 series, for flow rates of 15 lpm (4 gpm)
LBH5-101 series, for flow rates of 38 lpm (10 gpm)
LBH5-151 series, for flow rates of 53 lpm (14 gpm)
LBH5-251 series, for flow rates of 95 lpm (25 gpm)
LBH5-401 series, for flow rates of 151 lpm (40 gpm)

Typical POE Installations

BLACKCOMB-HO^{5.0} - Equipment Specifications

BLACKCOMB-HO^{5.0}, Residential UV Systems, UV Monitored

Model	LBH5-051	LBH5-101	LBH5-151	LBH5-251	LBH5-401
Flow Rate (@16mJ/cm²)	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 (@30mJ/cm²)	4 GPM	10 GPM	14 GPM	25 GPM	40 GPM
	15.1 lpm	37.9 lpm	53 lpm	95 lpm	151 lpm
	1.0 m³/hr	2.3 m³/hr	3.2 m³/hr	5.7 ³/hr	9.3 m³/hr
Flow Rate (@40mJ/cm²)	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.				
Plug Type	American, Nema 5/15, 3 wire for all 110V systems, "1" suffix (i.e. LB5-101) European, CEE 7/7, 3 wire for all 230V systems, "2" suffix (i.e. LB5-102) British Standard, BS 1363, 3 wire for all 230V systems, "3" suffix (i.e. LB5-103) Australian/New Zealand, AS/NZ 3112, 3 wire for all 230V systems, "4" suffix (i.e. LB5-104)				
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)

Optional Upgrade Modules

UV Sensor Module
Allows the 254nm UV wavelength to be measured and displayed via the BLACKCOMB-HO contoller. The sensor plugs directly into the contoller and is mounted in the sensor port located on all BLACKCOMB-HO^{5.0} or BLACKCOMB-HO^{6.0} reactors.

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)**

4-20m 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
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 (optional)
LBH5-051	RL-210HO	RQ-210	RSHO-B3.5
LBH5-101	RL-330HO	RQ-330	RSHO-B3.5
LBH5-151	RL-420HO	RQ-420	RSHO-B3.5
LBH5-251	RL-600HO	RQ-600	RSHO-B3.5
LBH5-401	RL-950HO	RQ-950	RSHO-B3.5

LUMINOR™ ENVIRONMENTAL

EPA Establishment #088776-CAN-001