LUMINOR™
BLACKCOMB
12 V

OFF THE GRID UV PROTECTION!

Models: LB5/6-02-12V, LB5/6-03-12V, LB5/6-06-12V
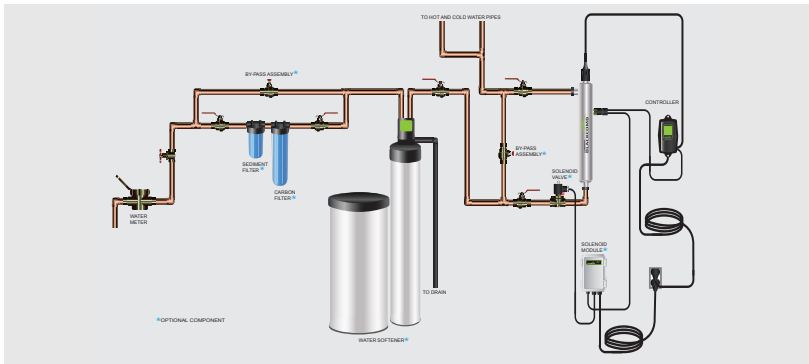
12 VOLT

Product Features

- 12 VDC controller comes with 1.8 m (6') of bare leads to allow for easy connection to a DC power source (optional AC adaptors are available separately if required)

- Free floating (no cable twist), keyed-in-place, 254nm Teflon® based UV sensor continuously measures and displays UV output (as a %) (standard on 6.1 systems, optional on 5.1 systems)

- 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, 304 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 coated UV lamps with ceramic bases for durability and long life (9,000 hours)

- Constant current electronic controller (one controller for all LP 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.)

Looking for the proven security of a UV disinfection system, but do not have access to a reliable AC power supply, then LUMINOR's 12 volt DC systems are your answer.

Available in flow rates of 7.6, 11.4 or 22.7 lpm (2, 3 or 6 GPM), the BLACKCOMB DC series uses UV technology to control microbiological (bacteria & virus) issues in water including *E.coli, Cryptosporidium* and *Giardia lamblia*.

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

With the integral expandibility port, the addition of a 4-20mA output or a solenoid valve is a simple plug-and-play option!

Sample Screens

Point-of-Use (POU)

LB5/6-02-12V series, for flow rates of 8 lpm (2 gpm)
LB5/6-03-12V series, for flow rates of 11 lpm (3 gpm)

Point-of-Entry (POE)

LB5/6-06-12V series, for flow rates of 23 lpm (6 gpm)

LUMINOR™
ENVIRONMENTAL

Illuminating technologies for life

Typical POE Installation

*OPTIONAL COMPONENT

BLACKCOMB 5.1/6.1 SO - Equipment Specifications

Multi-Use / Residential systems (standard output lamps)			
MODEL	**LB5-02-12V** **LB6-02-12V**	**LB5-03-12V** **LB6-03-12V**	**LB5-06-12V** **LB6-06-12V**
Flow Rate 30mJ/cm² @ 95% UVT	2 gpm	3 gpm	6 gpm
	7.6 lpm	11.4 lpm	22.7 lpm
	0.45 m³/hr	0.70 m³/hr	1.4 m³/hr
Flow Rate 40mJ/cm² @ 95% UVT	1.6 gpm	2.4 gpm	4.4 gpm
	6.1 lpm	9.1 lpm	17 lpm
	0.36 m³/hr	0.50 m³/hr	1.0 m³/hr
Port Size	½"FNPT	½"MNPT	¾"MNPT
Electrical	12VDC / 2.5A Max		
Plug Type	DC Power cable, wire leads (255050)		
Lamp Power (Watts)	8	15	22
Power (Watts)	14	20	30
Replacement Lamp	RL-210	RL-290	RL-470
Replacement Sleeve	RQ-210	RQ-290	RQ-470
Reactor Dimensions	6.4 x 26.2 cm (2.5 x 10.3")	6.4 x 36.4 cm (2.5 x 14.3")	6.4 x 54.2 cm (2.5 x 21.3")
Chamber Material	304 Stainless Steel, A249 Pressure Rated Tubing		
Controller Dimensions	17.2 x 9.2 x 10.2 cm (6.8 x 3.6 x 4")		
Operating Pressure	0.7-10.3 bar (10-150 psi)		
Operating Water Temperature	2-40° C (36-104° F)		
UV Monitor	YES on all "LB6" models. Upgrade available for "LB5" models (RS-B2.5)		
Solenoid Output	YES (optional solenoid module (**MOD-SOL**) sold separately)		
Dry Contacts	YES (remote alarm module (**MOD-RAM**) sold separately)		
4-20mA Output	YES (4-20mA module (**MOD-420**) sold separately)		
Temperature Mgmt. Valve	NA	130031	130032
Cooling Fan	NO		
Lamp Change Reminder	YES		
Lamp Out Indicator	YES		
Shipping Weight	2.9 kg (6.3 lbs)	3.6 kg (7.9 lbs)	4.4 kg (9.6 lbs)

PLEASE NOTE: All systems are sold configured for a direct 12 volt connection. If you are using these systems on line voltage (110 or 230 volts), then a separate power convertor is required. These can pe purchased separately or from LUMINOR directly. Order a 12-SUPPLY for a 110-230V. to 12 VDC volt adaptor.

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

★★★
BEST WARRANTY IN THE UV INDUSTRY

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
Installs on LUMINOR UV 5/6 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. Order RS-B2.5.

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.

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.

Carbon Neutral

MEMBER
Water Quality ASSOCIATION

INTERNATIONAL ULTRAVIOLET ASSOCIATION

EPA Establishment #088776-CAN-001

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