

LUMINOR™ BLACKCOMB

12 V

OFF THE GRID UV WATER TREATMENT

- 2 to 6 GPM
- Colour screen controller
- Lightlock™ technology for protected lamp replacement sales

The BLACKCOMB 12 volt DC series UV water treatment systems are ideal if you do not have access to a reliable AC power supply.

BLACKCOMB provides UV water treatment for your home with the inclusion of a true 254nm Teflon® based UV sensor that continuously monitors the performance of the UV system, displaying the output via a colour screen (optional on 5.1 systems). In addition to UV output, diagnostics, system status, warnings and QR codes can also be displayed.

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

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
- Expandibility port for future upgrades and options
- Axial flow, 304 stainless steel polished reactors, designed & manufactured to ASME pressure vessel standards
- Simple lamp changes
- Reliable, industry proven, proprietary low pressure coated UV lamps with ceramic bases for durability and long life
- 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.

Sample Screens



Point-of-Use (POU)

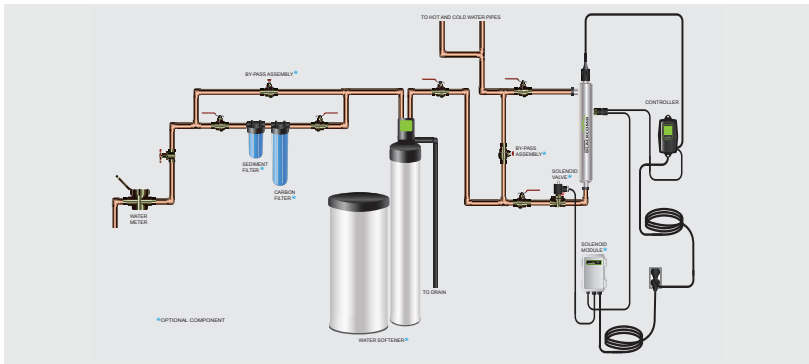
LB5/6-02-12V series, for flow rates of 8 lpm (2 gpm)
LB5/6-03-12V series, for flow rates of 11 lpm (3 gpm)

Point-of-Entry (POE)

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



Typical POE Installation



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/cm ² @ 95% UVT | 2 gpm | 3 gpm | 6 gpm |
| | 7.6 lpm | 11.4 lpm | 22.7 lpm |
| Flow Rate 40mJ/cm ² @ 95% UVT | 0.45 m ³ /hr | 0.70 m ³ /hr | 1.4 m ³ /hr |
| | 1.6 gpm | 2.4 gpm | 4.4 gpm |
| Flow Rate 40mJ/cm ² @ 95% UVT | 6.1 lpm | 9.1 lpm | 17 lpm |
| | 0.36 m ³ /hr | 0.50 m ³ /hr | 1.0 m ³ /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 converter is required. These can be 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



See luminoruv.com for 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 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.



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