

SECTION 15

Ultraviolet Disinfection

Specialty Applications

LUMINOR BLACKCOMB 12VDC

15

Standard Features:

- Suitable for Solar, Mobile, Marine and Applications Where a Safe Operating Voltage is Preferred
- 304SS Reactor chambers
- Splash Proof Controllers
- Low Pressure Constant Output Lamps
- Flow Rates Quoted at 30mJ/cm2 and 95%UVT
- Available with LB5 & LB6 Controllers
- Colour Screen with Full Diagnostics & Warnings
- Expansion Port
- 10 Year Reactor Warranty
- 3 Year Controller Warranty



Models:

Model	Flow l/m	Lamp watts	Chamber Dimensions cm	Connections inch
LB5-02-12V	7.6	8	6.4 x 26.2	1/2
LB5-03-12V	11.4	15	6.4 x 36.4	1/2
LB5-06-12V	22.7	22	6.4 x 54.2	3/4

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

LB6 controller with UV intensity monitor, water shut off solenoid, 4-20mA output, relay output, temperature management, Sherpa, UV concierge.

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SECTION 15

Ultraviolet Disinfection

15

Specialty Applications

LUMINOR Hot Water Systems

Standard Features:

- 304SS Reactor Chambers
- Splash Proof Controllers
- Low Pressure Constant Output Lamps
- Flow Rates Quoted at 30mj/cm² at 70%UVT
- 10 Year Reactor Warranty
- 3 Year Controller Warranty



Models:

Model	Flow l/m	Lamp watts	Chamber Dimensions cm	Connections inch
LBH4-154-HW	38	45	8.9 x 50.8	1
LBH4-254-HW	61	67	8.9 x 68.3	1
LBH4-404-HW	106	101	8.9 x 103.4	1-1/2
LR5-554-HW	144	152	10 x 91 x 14	2
LR5-854-HW	227	207	10 x 119 x 14	2
LR5-1104-HW	242	304	15 x 91 x 20	2-1/2
LR5-1404-HW	306	344	15 x 103 x 20	3
LR5-1754-HW	360	414	15 x 119 x 20	4
LK5-A42-HW	681	828	1393 x 451 x 248	4 flange
LK5-A62-HW	1067	1242	1363 x 457 x 248	6 flange

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

LB6 controller with UV intensity monitor, water shut off solenoid, 4-20mA output, relay output, temperature management, Sherpa, UV concierge.

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Ultraviolet Disinfection

Specialty Applications

LUMINOR Low UVT Systems

15

Standard Features:

- 304SS Reactor Chambers
- Splash Proof Controllers
- Low Pressure Constant Output Lamps
- Flow Rates Quoted at 30mj/cm2 at 50%UVT
- 10 Year Reactor Warranty
- 3 Year Controller Warranty



Models:

Model	Flow l/m	Lamp watts	Chamber Dimensions cm	Connections inch
LBH4-154-50	23	45	8.9 x 50.8	1
LBH4-254-50	38	67	8.9 x 68.3	1
LBH4-404-50	64	101	8.9 x 103.4	1-1/2
LR5-554-50	152	152	10 x 91 x 14	2
LR5-854-50	133	207	10 x 119 x 14	2
LR5-1104-50	136	304	15 x 91 x 20	2-1/2
LR5-1404-50	170	344	15 x 103 x 20	3
LR5-1754-50	193	414	15 x 119 x 20	4
LK5-A42-50	333	828	1393 x 451 x 248	4 flange
LK5-A62-50	530	1242	1363 x 457 x 248	6 flange

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

LB6 controller with UV intensity monitor, water shut off solenoid, 4-20mA output, relay output, temperature management, Sherpa, UV concierge.

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Ultraviolet Disinfection

15

Specialty Applications

LUMINOR Total Organic Carbon Reduction

Standard Features:

- 304SS Reactor Chambers
- Splash Proof Controllers
- Low Pressure Constant Output Lamps
- Flow Rates Quoted at 150mj/cm2 at 98%UVT
- 10 Year Reactor Warranty
- 3 Year Controller Warranty



Models:

Model	Flow l/m	Lamp watts	Chamber Dimensions cm	Connections inch
LBH4-154-TOC	12	45	8.9 x 50.8	1
LBH4-254-TOC	19	67	8.9 x 68.3	1
LBH4-404-TOC	30	101	8.9 x 103.4	1-1/2
LR5-554-TOC	45	152	10 x 91 x 14	2"
LR5-854-TOC	64	207	10 x 119 x 14	2
LR5-1104-TOC	83	304	15 x 91 x 20	2-1/2
LR5-1404-TOC	106	344	15 x 103 x 20	3
LR5-1754-TOC	132	414	15 x 119 x 20	4
LK5-A42-TOC	303	828	1393 x 451 x 248	4 flange
LK5-A62-TOC	473	1242	1363 x 457 x 248	6 flange

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

Options:

LB6 controller with UV intensity monitor, water shut off solenoid, 4-20mA output, relay output, temperature management, Sherpa, UV concierge.

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SECTION 15

Ultraviolet Disinfection

LUMINOR Ultraviolet Disinfection

Options and Accessories

15

All LUMINOR reactors have a common sensor port, fitted with either a UV sensor or glow plug. This means that all models can be upgraded, future proofing your installation.

Controller Options

- LB4.1: Constant output controller with count down lamp timer.
- LB5.1: Features as per 4.1, plus colour screen, Full diagnostic and warnings, expansion port for future upgrades and options.
- LB6.1: Features as per 5.1, plus UV intensity sensor and display.



Package Options

Luminor Ultraviolet sterilisers are available in a range of packaged systems combining filtration and sterilisation in a single convenient package.

Please enquire.



Ultrasonic Flow Meter

Real time flow monitoring for LB5 and LB6 units. No or low-flow signal for the UV controller.

The controller will reduce power to lamp, saving power, reducing quartz sleeve fouling and providing cooler operating temperatures.



Temperature Management

This optional bolt-on cooling fan runs continuously to lower the operating temperature of the ultraviolet steriliser.

Recommended for units with high output lamps.



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SECTION 15

Ultraviolet Disinfection

15

LUMINOR Ultraviolet Disinfection

Options and Accessories

Temperature Management

The TRV is a mechanical temperature management valve. When the water reaches a pre-set temperature the valve automatically opens dumping the hot water to drain.

Recommended for applications where there are extended periods without flow, or where the temperature management is required.



4-20mA Output Option

Provides a 4-20mA signal out for UV intensity.

Suitable for LB6.1 controllers



Remote Alarm Option

Provides a voltage free changeover relay contact for switching a remote alarm.

Suitable for LB5.1 and LB6.1 controllers



Solenoid Valve Option

Provides a shut off solenoid valve to turn off the water if the lamp fails or the UV intensity drops below 50%.

With manual over-ride.

Suitable for LB5.1 and LB6.1 controllers.



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SECTION 15

Ultraviolet Disinfection

LUMINOR Ultraviolet Disinfection

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15

UV Sensor Module

Allows upgrade of all 5.1 systems, or replacement for all 6.1 systems.



Sherpa Wireless Monitoring Module

Remote monitoring of all major and minor alarms on the Blackcomb UV models.



UV Concierge

Check your Blackcomb UV status remotely.

Integrated WiFi solution with data-logging capabilities.

Cloud based information storage.

SMS and email alerts for all major alarms.



Dealer Portal

With the optional dealer module, you can now monitor all of the UV systems you service and get real time reporting on system status. You will know which systems are in need of attention and when servicing is due.

SMS and email alarm messaging is included.



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Ultraviolet Disinfection

15

LED Ultraviolet Disinfection

LUMINOR Glacier UVC LED Series

Standard Features:

- Compact, High Power Density
- Integral Solid State Control Architecture
- Eco Friendly, Mercury Free
- 5,000 hrs LED Life
- Easy to Use, Install and Maintenance Free
- Temperature Independent Ensuring Constant Output
- Automatic Detection of Water Flow for On-Demand Disinfection for GUV4S & GUV5S
- Fully Integrated LED Based UV Disinfection System with Full Colour Screen Interface for GUV-5S
- Flow Rates Quoted at 30mJ/cm² and 95%UVT
- 3 Year Warranty
- 5000hr LED Usage Warranty



Models:

Model	Flow l/m	Input Power Watts	Voltage	Tube Connections OD inch	Automatic water flow detection for on-demand disinfection
GUV-2	0.6	8	12	3/8	
GUV-5	2.4	12	12	3/8	
GUV-4S	2.4	15	12	3/8	✓
GUV-5S	2.4	16	12	3/8	✓

Requirements:

Maximum operating pressure	10.3 bar	Hardness	<120ppm
Water temperature	2-40°C	Turbidity	<1NTU
Iron	<0.3ppm	UV Transmittance	>85%

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