



## UV-C LED Water Disinfection

### World's Smallest UV System



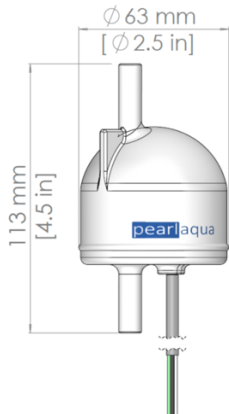
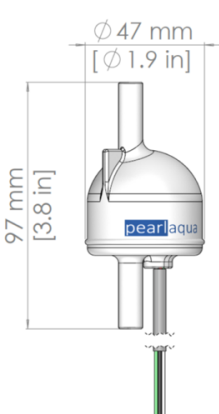
Utilizes Small, state of the art UV-C LEDs to provide over 99.99% pathogen reduction without the use of harmful chemicals or mercury-based UV lamps.

Advanced patented design featuring UVinaire® LED module. Highly configurable for easy product integration with continuous monitoring.

Full in-house optical, electrical, and mechanical design capabilities. ISO 9001:2015 certified manufacturing facility located in Kentucky, USA.



PearlAqua Micro is tested and certified by NSF International against NSF/ANSI Standard 55 and REG4 for materials and structural integrity requirements.



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FEATURES	
Mercury Free	Low Power Consumption
Remote Start/Stop	Unlimited On/Off Cycling
Instantaneous On	Thermal Monitoring
Consistent Performance Across Water Temperature Range	

OPTIONS
UV Intensity Monitoring (C Only)
LED Status Output
Power Cable Length and Connector
Mounting Bracket

SPECIFICATIONS						
<i>Specifications provided as a guide. Variations possible based on customer requirements.</i>						
Product Name		PearlAqua Micro				
Model Number		3B	6B	9C	12C	
Max Flow <sup>1</sup> [lpm (gpm)]	UV Dose (mJ/cm <sup>2</sup> )	10	1.2 (0.3)	2.0 (0.5)	5.3 (1.4)	8.0 (2.1)
		16	0.9 (0.24)	1.5 (0.4)	4.0 (1.1)	5.0 (1.3)
		40	0.25 (0.07)	0.50 (0.13)	1.75 (0.5)	2.25 (0.6)
NSF 55 Class B Flowrate <sup>2</sup> [lpm (gpm)]		0.5 (0.1)	1 (0.3)	1.8 (0.5)	2.4 (0.6)	
Headloss at Max Flow [mbar (psi)]		65 (0.9)	165 (2.4)	407 (5.9)	917 (13)	
Inlet/Outlet Water Connection		Male: 3/8", 11mm, or other			Male: 3/8", 1/2", or other	
Weight [g (oz)]		77 (2.7)			162 (5.7)	
Max Operating Pressure <sup>2</sup> [bar (psi)]		8.3 (120)				
Environmental Protection		IP68				
Lamp Life <sup>3</sup> [hours]		up to 10,000				
Max Ambient Temp [°C (°F)]		80 (176)				
Fluid Temperature [°C (°F)]		0-50 (32-122)			0-45 (32-113)	
Electrical Connection		4-Core Cable, 150 mm (6") length				
Input Voltage [V DC]		12 or 24			12	12 or 24
Input Power <sup>3</sup> [W]		2.5 - 4	5 - 8	7 - 11	9 - 14	

In the past few years, there has been a significant increase in UVC LED technology. Mercury lamps are being replaced for many logical reasons. UVC-LED is a more precise and compact technology, being much more pliable form factors. There are quite a few differences between UV lamps and conventional mercury technology. Technology has advanced substantially and Puroxi feels that we are in the forefront of the UVC trend.

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