UV-Consulting Peschl España®
Su socio en tecnología ultravioleta

PRODUCT INFORMATION





PearlAqua Micro (Model A) PearlAqua Micro (Model B and C)

Pearl Aqua Systems

Water disinfection with UVC-LED

The PearlAqua Micro System is a new system for water disinfection utilizing UV-C LEDs efficiently, achieving over a 99.99% pathogen reduction without chemical additives or mercury lamps.

The PearlAqua Micro unit is the most compact UV system in the world, engineered for integration into space-constrained locations where installing a UV system was previously considered impossible. This grants it numerous applications in the aerospace industry, medical devices, as well as residential water disinfection. It is ideal for water disinfection in drinking fountains or water dispensers, including the option for blue LEDs as an indicator that the water is being treated.

Main Characteristics

- Deployment of UVC LEDs.
- Chemical-free operation, with mercury-free LEDs.
- World's most compact UV system.
- Direct point-of-use installation.
- Optional UV intensity monitoring.
- Dynamic power control.
- Instant ON/OFF capability for intermittent flow applications.
- LED-based architecture with zero thermal transfer to the fluid.
- No handling of fragile lamps required.
- Low maintenance costs.

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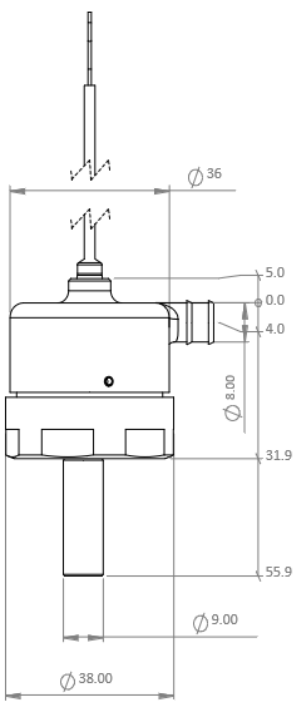
PRODUCT INFORMATION

Technical features

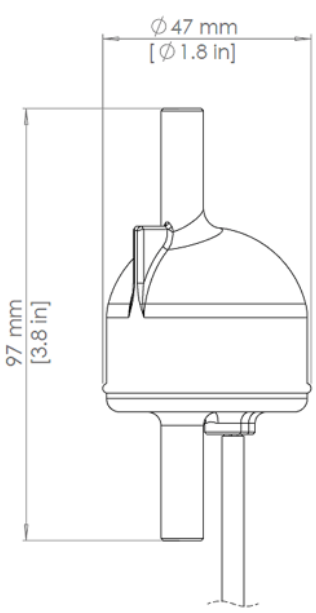
Technical specifications						
System name	PearlAqua Micro					
Model	3A	6A	3B	6B	9C	12C
Maximum flow rate for an UV dose**	2 L/min 16 mJ/cm²	2 L/min 30 mJ/cm²	0,25 L/min 40 mJ/cm²	0,50 L/min 40 mJ/cm²	1,75 L/min 40 mJ/cm²	2,25 L/min 40 mJ/cm²
Pressure drop at maximum flow rate	0,25mbar (3psi)		65mbar (0,9psi)	165mbar (2,4psi)	407mbar (5,9psi)	919mbar (13psi)
Water inlet/outlet connection	Inlet: 8mm barb. Outlet: Optional		Female: 3/8”, 11mm or another		Female: 3/8”, 1/2” or another	
Weight	77g		77g		162g	
Maximum operating pressure	2,0 bar (30psi)		8,3 bar (120psi)			
Electrical protection	IP65		IP68			
Service life*	3.000h		10.000h			

*System lifetime may vary depending on the specific model.
**For alternative UV fluences and flow rates, please consult technical support.

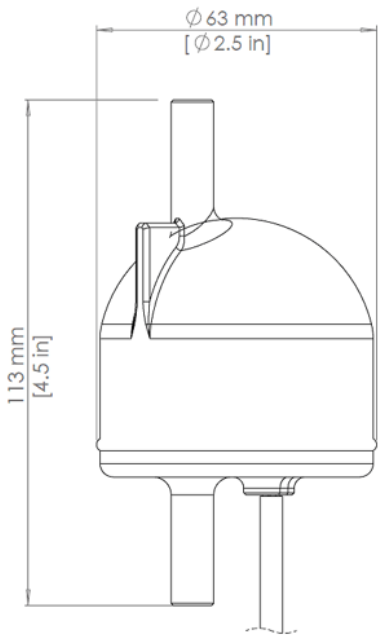
Dimensions:



Model 3/6



Model 9/12



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PRODUCT INFORMATION



PearlAqua Deca 24C4



PearlAqua Deca 30C

PearlAqua Systems

Water disinfection with UVC-LED

The PearlAqua Deca 30C and Deca 24C Systems are innovative water disinfection architectures utilizing UV-C LED technology efficiently, achieving over a 99.99% pathogen reduction (4-log reduction) without chemical additives or mercury lamps. The Deca series comprises multiple size configurations, including the 30C and 24C models.

This system provides a comprehensive, straightforward turn-key solution across a wide array of applications for point-of-use disinfection of low, intermittent flow rates, such as vending machines and point-of-use systems in nautical vessels, recreational vehicles, or passenger trains.

Main Characteristics

- Deployment of UVC LEDs.
- Chemical-free operation, with mercury-free LEDs.
- World's most compact UV system.
- Direct point-of-use installation.
- Optional UV intensity monitoring.
- Dynamic power control.
- Instant ON/OFF capability for intermittent flow applications.
- LED-based architecture with zero thermal transfer to the fluid.
- No handling of fragile lamps required.
- Low maintenance costs.

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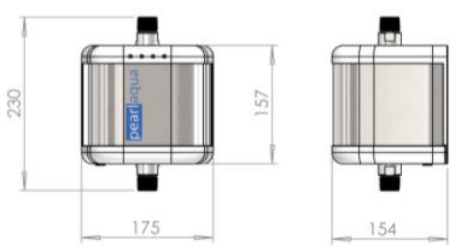
Technical features

TECHNICAL SPECIFICATIONS		
System name	PearlAqua Deca 30C	PearlAqua Deca 24C4
Modelo	Deca 30C	Deca
Caudal máximo para una dosis UV** 16 mJ/cm² ..... 40 mJ/cm²	..... 12 L/min	45 L/min 19 L/min
Conexión de entrada/salida de agua	3/8” MNPT o 3/8” BSPP	3/4” MNPT
Peso	545g	4,2kg
Presión máxima de trabajo	8,3 bar (120psi)	8,3 bar (120psi)
Electrical protection	IP65	IP68
Lamp replacement Interval*	5.000h to 10.000h	5.000h

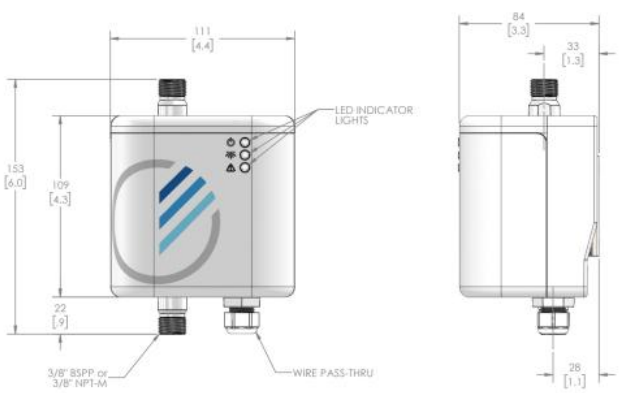
*System lifetime may vary depending on the specific model.
**For alternative UV fluences and flow rates, please consult technical support.

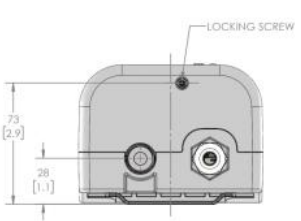
Dimensions:

Deca 24C4



Deca 30C





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