



# PearlAqua™ Water Treatment

Advanced UV-C LEDs  
Patented Reactor Designs  
Low Cost of Ownership  
Chemical & Mercury Free



# PearlAqua Specifications



## PearlAqua Micro

Point of Dispense  
or Point of Use

- Lamp life up to 10,000 hours
- Highly configurable water and electrical connections
- Disinfection performance  
3rd party validated
- Optional UV intensity sensor



## PearlAqua Deca

High-flow Point of Use  
or Point of Entry

- 5 yr lamp replacement interval
- Dynamic Power Control
- External alarm indicator lights
- Disinfection performance  
3rd party validated
- Standard UV intensity sensor



## PearlAqua Kilo/Tera

Municipal or Industrial

- Replaceable lamp modules  
with advanced cooling system
- Stabilized UV-C output power
- Standard DVGW/ÖNorm UV  
intensity sensor

## Common Features

- Utilizes small, state of the art UV-C LEDs
- Advanced reactor design
- Low cost of ownership
- Self-contained in one unit (reactor, light source, ballast, and controls)

## SYSTEM SPECIFICATIONS

	Max Flow	
8 LPM (2.1 GPM)	45 LPM (12 GPM)	22,712 m <sup>3</sup> D (6 MGD)
	Inlet/Outlet Sizing	
Male: 3/8", 11mm, 1/2" other	3/4" MNPT	2 - 20" Flange
	Input Power [W]	
2.5 - 14	180 (max)	7,000 - 15,000
	Max Operating Temp [°C (°F)]	
45(113) - 50 (122)	30 (86)	30 (86)

# Technology

# Products

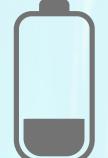
# Application



Mercury Free



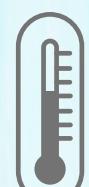
Chemical Free



Low Power



Wavelength Selectivity



Temperature Independent



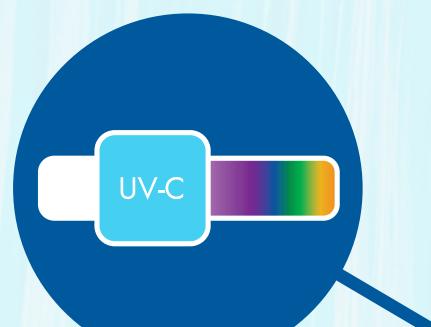
No Disinfection By-Products



Low Maintenance



Pathogen Inactivation



UV



LEDs



Reactor Design



Adaptable Design



Patented Flow Design



Long Lamp Life



Replacable



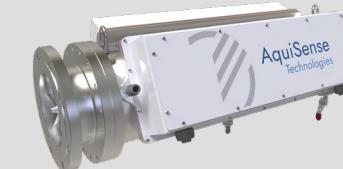
Cost Effective



Integrated Sensors



Onboard Indicators



Transportation



Beverage



Industrial / Municipal



Life Sciences



Commercial / Residential



Compact Footprint



Instant On/Off



Easy Installation



Unlimited Cycling

AquiSense Technologies combines over 100 years of UV disinfection expertise with 20 years of LED research to develop the PearlAqua. First introduced in 2012, PearlAqua is the world's first UV-C LED product designed for water disinfection, now expanded into a full range covering many applications

This system integrates state-of-the-art LEDs into a unique and compact design, without the use of chemicals or mercury-based lamps. LEDs also allow for instant full-intensity power, unlimited cycling, remote start/stop, and no heat transfer into the process fluid.



## Product Certification



Microbiological testing in accordance with US EPA drinking water guidelines.



PearlAqua systems are compliant with NSF/ANSI-61 for material safety and NSF/ANSI-372 for lead-free compliance.



The PearlAqua Micro is tested and certified by NSF International against NSF/ANSI 55-2019 for materials and structural integrity requirements.

## About AquiSense Technologies

AquiSense Technologies is the global leader in UV-C LED systems design and manufacture. They work with leading LED manufacturers to evaluate their devices and then deploy them into efficient disinfection products. Using a combination of patented technology and in-depth know-how, AquiSense integrates LED devices into products that solve real world problems in water, air, and surface applications. AquiSense Technologies is a wholly owned subsidiary of Nikkiso America Inc. and is a part of the Nikkiso Group of companies.

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