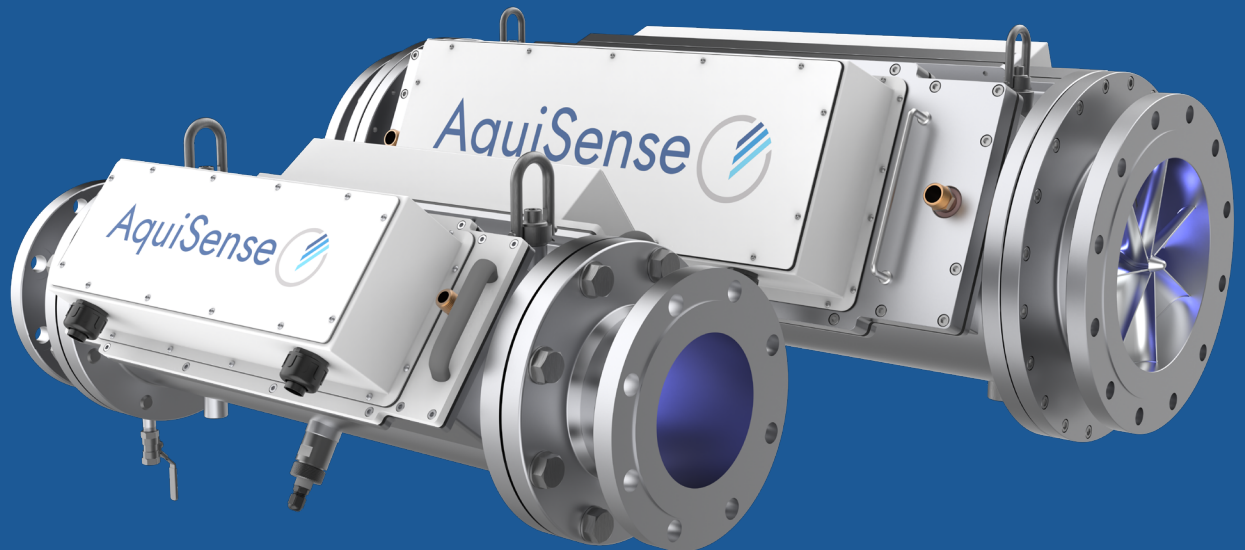


PearlAqua™ Water Treatment Full Spectrum UV LED Solutions



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

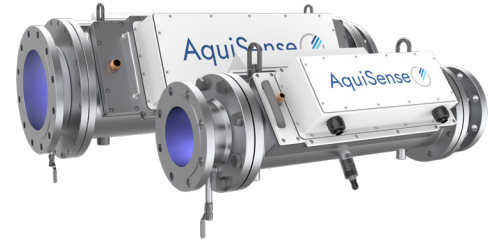
- Lamp life up to 10,000 hours
- Highly configurable water and electrical connections
- Disinfection performance 3rd party validated
- Optional UV intensity sensor



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

Industrial or Municipal

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

SYSTEM SPECIFICATIONS

Max Flow		
8 LPM (2.1 GPM)	45 LPM (12 GPM)	22,712 m ³ D (6 MGD)
Inlet/Outlet Sizing		
Male: 3/8", 11mm, 1/2" other	3/4" MNPT	4 - 20" Flange
Input Power [W]		
2.5 - 14	180 (max)	7,000 - 15,000
Max Operating Temp [°C (°F)]		
45(113) - 50 (122)	35 (95)	60 (140)

Common Product 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, & controls)

Technology



Mercury Free



Chemical Free



Low Power



Wavelength Selectivity



Temperature Independent



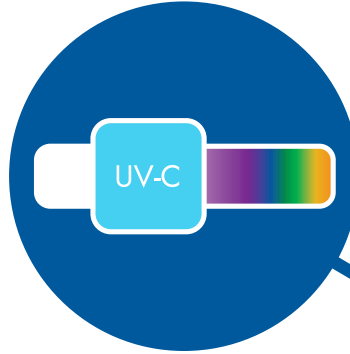
No Disinfection
By-Products



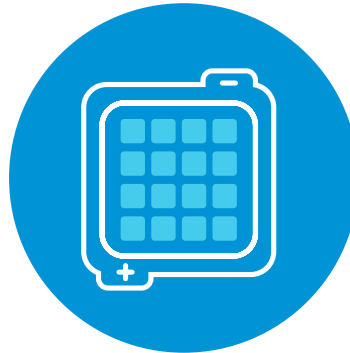
Low Maintenance



Pathogen Inactivation



UV



LEDs



Reactor Design



Adaptable Design

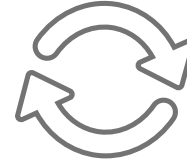
Products



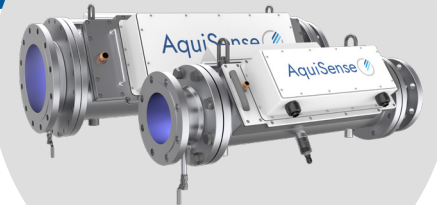
Patented Flow
Design



Long Lamp Life



Replacable



Integrated Sensors



Onboard Indicators



Cost Effective

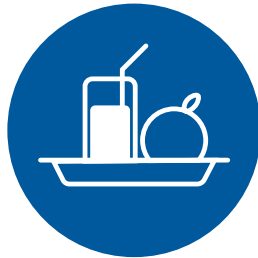
AquiSense Inc. combines over 100 years of UV disinfection expertise with 20 years of LED research to develop the PearlAqua. First introduced in 2012, the PearlAqua platform is the world's first UV-C LED product designed for water disinfection, now expanded into a full range covering many applications including point-of-use, point-of-entry, and industrial/municipal 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.

Application



Transportation



Beverage



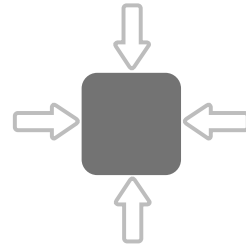
Industrial / Municipal



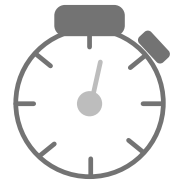
Life Sciences



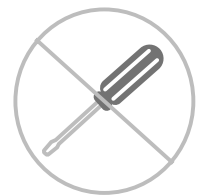
Commercial / Residential



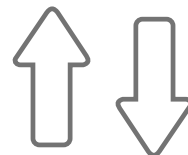
Compact Footprint



Instant On/Off

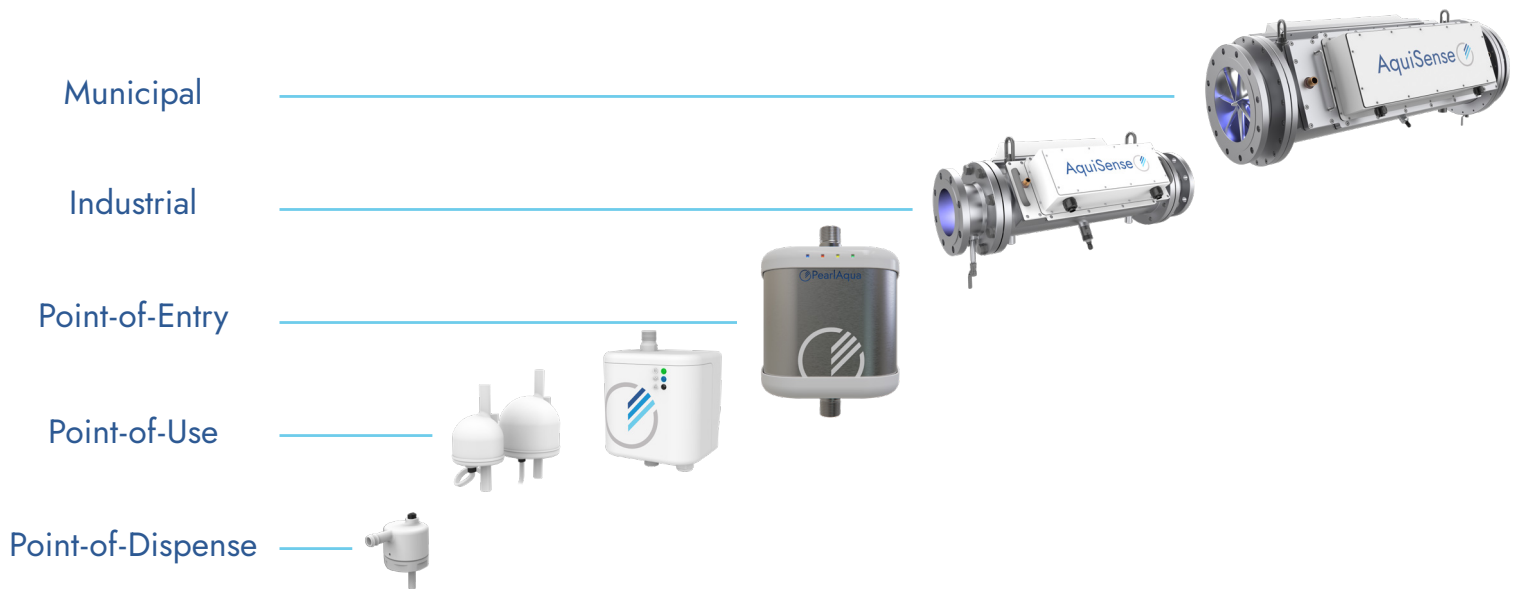


Easy Installation



Unlimited Cycling

PearlAqua Water Treatment



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.



About AqiSense Inc.

AqiSense Inc. 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, AqiSense integrates LED devices into products to solve real world problems in water, air, and surface applications.

info@aqisense.com
+1.859.869.4700
www.aqisense.com



© 2025 AqiSense Inc. All Rights Reserved.