PearlAqua™ Water Treatment

Advanced UV-C LEDS
Patented Reactor Design
Replacable UVinaire
Chemical & Mercury Free

OUTLET

PearlAqua

pearlaqua

AquiSense
Technologies

Technology

Pathogen Inactivation

Low Maintenance

Chemical Free

No Disinfection By-Products

Low Power

Wavelength Selectivity
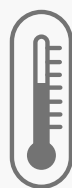
Temperature Independent

Mercury Free

UV
UV-C

LEDs

Reactor Design

Adaptable Design

AquiSense Technologies combines over 60 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. 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.

Patented Flow Design
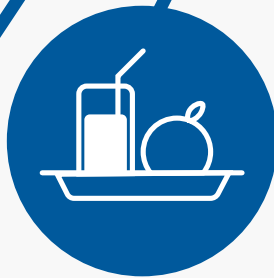
Long Lamp Life

Replacable

Integrated Sensors

Onboard Indicators

$ **Cost Effective**

Applications

Food/Beverage

Life Sciences

Transportation

Industrial

Commercial/ Residential
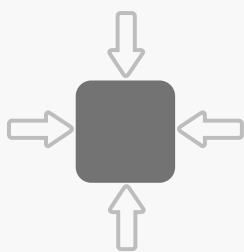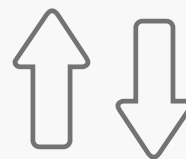
Compact Footprint

Instant On/Off
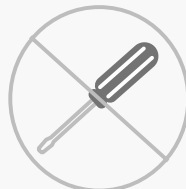
Easy Installation

Unlimited Cycling

PearlAqua Water Treatment

PearlAqua Micro™

Overview

- POU system for integration into products and systems
- Flow rates up to 8 LPM
- Higher flow rates can be addressed with multiple units in parallel
- Disinfection performance third party validated

Features

- Self-contained in one unit (reactor, light source, ballast, and controls)
- State of the art UV-C LEDs with lamp life up to 10,000 hours
- Highly configurable with water and electrical connections, cooling, and UV-C output power
- Optional UV Intensity sensor

PearlAqua Deca™

Overview

- World's first UV-C LED Point-of-Entry residential system
- Flow rates up to 45 LPM
- Low cost of ownership
- Disinfection performance third party validated

Features

- Self-contained in one unit (reactor, light source, ballast, and controls)
- State of the art UV-C LEDs with a 5 year lamp replacement interval
- Instant on/off for intermittent flows
- Dynamic Power Control
- External indicator lights for alarm conditions
- Digital and analog I/O
- Standard UV Intensity monitoring

PearlAqua Tera™

Overview

- World's most advanced UV-C LED Municipal/industrial system
- Flow rates up to 15,142 m^{3}D
- Compact system design
- Remote I/O interface
- Low maintenance

Features

- Advanced reactor design
- Replaceable lamp modules with advanced cooling
- system
- Stabilized UV-C output power
- Compliant to USEPA UV guidance
- Unlimited on/off cycling