aqui<mark>sense</mark> technologies



- Advanced UV-C LEDs
- Patented Reactor Design
- Replaceable UVinaire
- Chemical & Mercury Free

PearlAqua™ Water Treatment



Selectivity

UV-C LEDs are monochromatic and available in multiple wavelengths. This affords targeted performance for specific water-borne pathogens.



Temperature Independent

LEDs do not transfer heat to the water, thus limiting fouling and ensuring a constant UV output regardless of water temperature.



Low Power Power consumption is reduced due to efficient reactor design and intermittent flow

capabilities.



without the use of harmful chemicals

No Disinfection By-Products

No risk of harmful disinfection by-products being generated as with chemical treatment.

U٧ Visible Light UVB UVA



that is easy to

use and maintain.



Pathogen Inactivation

Effective against a wide range of water-borne pathogens, including chlorine resistant organisms such as Cryptosporidium and Giardia



Conventional UV lamps contain mercury, but UV LEDs are free of hazardous materials which eliminates risk of mercury spill due to lamp breakage.

PearlAquaTM Evolution of Perfection

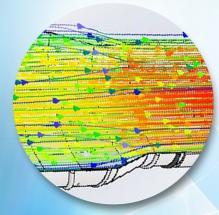
AquiSense Technologies combines over 50 years of UV disinfection expertise with 15 years of LED research to develop the PearlAqua. First introduced in 2012, PearlAqua is the world's first UV-C LED product designed for water disinfection.

Reactor



Patented Flow Design Advanced design of the PearlAqua

is based on years of UV-C LED research.



Cost Effective Advanced reactor design using computational fluid dynamics and advanced materials greatly enhances overall system efficiency -- higher flow rates at lower power.



JVinaire™



Integrated Sensors

Optional UV Intensity sensor available for real time monitoring of disinfection performance. Visual and electronic interface for indication of lamp operation and alarm conditions



Replaceable Easily replaced without



Safety Interlock

Safety switch ensures LEDs automatically turn off when UVinaire is removed.



Data Logging

On board storage of lamp usage, temperature, on/off times, and intensity values.



Long Lamp Life

10,000-hour lamp life. Replacement intervals can be extended for several years due to its intermittent flow capability.



Compact Footprint

High power density UV-C LEDs and advanced electronic controls allow for smaller footprint compared to traditional UV systems.



Instant On/Off

Intermittent flow friendly with remote start/stop. This saves energy and eliminates risk of overheating duringno flow events.





Easy Installation

Plug-and-play with limited technical know-how. Fewer components, robust design and easy interface.



Unlimited Cycling

Lamp life is not effected by on/off cycles, allowing for unlimited lamp cycling. Gas discharge UV lamps can only be cycled a few times a day without impacting lamp life.

Applications













PearlAqua Water Treatment







PearlAqua

OVERVIEW

- Flagship plug & play device with robust construction
- Flow rates up to 12 LPM
- Higher flow rates can be addressed with multiple units in parallel
- Disinfection performance third party validated

PearlAqua OEM

OVERVIEW

- System engineered to be integrated into products and processes
- Flow rates up to 12 LPM
- Higher flow rates can be addressed with multiple units in parallel
- Disinfection performance third party validated

PearlAqua Micro

OVERVIEW

- POU system for integration into products and processes
- Flow rates up to 3 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
- Removable UVinaire lamp module with safety interlock, heatsink, and cooling fan
- Stylish robust stainless steel shell
- External indicator lights for alarm conditions
- Digital and analog I/O
- Optional UV Intensity sensor

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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