

KENAI™

UVPro

The Evolution of Ultraviolet Disinfection

For your comfort, convenience and safety



Kenai's UVC LEDs are designed with a strong focus on environmental sustainability. They boast an exceptionally low power consumption, ensuring minimal energy usage during operation. What sets them apart is their construction, which completely avoids the use of potentially hazardous chemicals. This not only makes them safer for handling and operation but also reduces their environmental impact.

One of the key advantages of UVC LEDs is their ability to cycle without any limitations. They are not affected by on/off cycles, allowing for seamless and reliable performance over extended periods of use. Moreover, these

LEDs offer a temperature-independent, constant UVC output, regardless of variations in water temperature. This feature is complemented by the fact that UVC LEDs do not transfer heat from their emitting surface, which in turn limits the occurrence of lamp fouling.

Furthermore, Kenai provides a unique customization option for their UVC LED modules. This allows for the fine-tuning of the wavelength to suit specific UVC applications. This tailored approach ensures that the UVC LEDs can be optimized for various disinfection needs, making them a versatile and adaptable choice for a range of industries and environments.



CWGUV-4S

- LED ultraviolet light disinfection
- “Instant-on” devices, requiring no warm-up time to achieve disinfection, allowing for eco-friendly operation in response to water flow
- Extremely long service life resulting in reductions in lamp replacement and labor expenses
- Free of hazardous materials, which eliminates the risk of a mercury spill due to a lamp breakage
- Eco-friendly, extremely low power consumption and no potentially dangerous chemicals used in their construction

Start enjoying the Kenai UVPro difference today.

Contact a Kenai authorized dealer to install a UVPro Professional Series Water Treatment System and start enjoying all the benefits of this whole home powerhouse.

Why might UV be a suitable solution for your home?

Inactivates Harmful Microorganisms: UV disinfection has been validated through microbial testing. Through this testing, performance data has been generated for UV dose delivery to inactivate *Cryptosporidium*, *Giardia*, *Escherichia coli* (E. coli), and fecal coliform.

Chemical-Free Treatment: Unlike some traditional water treatment methods that use chemicals like chlorine or ozone, UV disinfection doesn't introduce potentially harmful substances into your water supply.

Maintains Water Quality: UV treatment doesn't alter the taste, odor, or color of your water, preserving its natural quality.

Eco-Friendly Solution: It reduces the environmental impact associated with the production, transportation, and disposal of chemical disinfectants.

Helps to Prevent Waterborne Diseases: UV treatment helps to provide a barrier against waterborne diseases such as cholera, typhoid, giardia, and cryptosporidium.

No Residual Byproducts: Unlike chemical disinfectants, UV treatment leaves no harmful residual byproducts in the water that could pose health risks.

Low Maintenance: UV units are relatively low maintenance compared to other water treatment systems. They typically require periodic lamp replacement and cleaning of the quartz sleeve.

Fast and Effective: UV disinfection works quickly, sterilizing microorganisms upon contact. There's no need for a long contact time or waiting period before using the treated water.

Safer for Sensitive Individuals: UV treatment may be suitable for individuals with sensitivities to chemicals, as it doesn't introduce potentially irritating substances into the water.

Versatility: UV disinfection can be used for various water sources, including well water, municipal water supplies, and surface water.

More Cost-Effective: While the initial investment might be higher compared to some traditional methods, UV disinfection tends to be more cost-effective over the long term due to lower operating and maintenance costs.

Peace of Mind: Knowing that your water is being treated with UV light provides peace of mind, especially if you live in an area prone to waterborne contaminants.



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SPECIFICATIONS

Flow Rate @ (30 mJ/cm² at 95% UVT)
0.6 GPM

Flow Rate @ (40 mJ/cm² at 95% UVT)
0.4 GPM

UVT (%)
Recommended above 90%

Headloss at Max Flow
166 mBar (2.4 psi)

Max Pressure
6.9 bar (100psi)

Max Ambient Temperature
122° F

Operating Water Temperature
32–113° F

Water Connections
3/8" OD Tube (fits John Guest® style quick connect fittings)

Input Voltage
12VDC

Input Power
15W 16W

Electrical Connection Standard
12VDC barrel connector, 2.1 x 5.5 mm

LED Life
5,000 hours

