



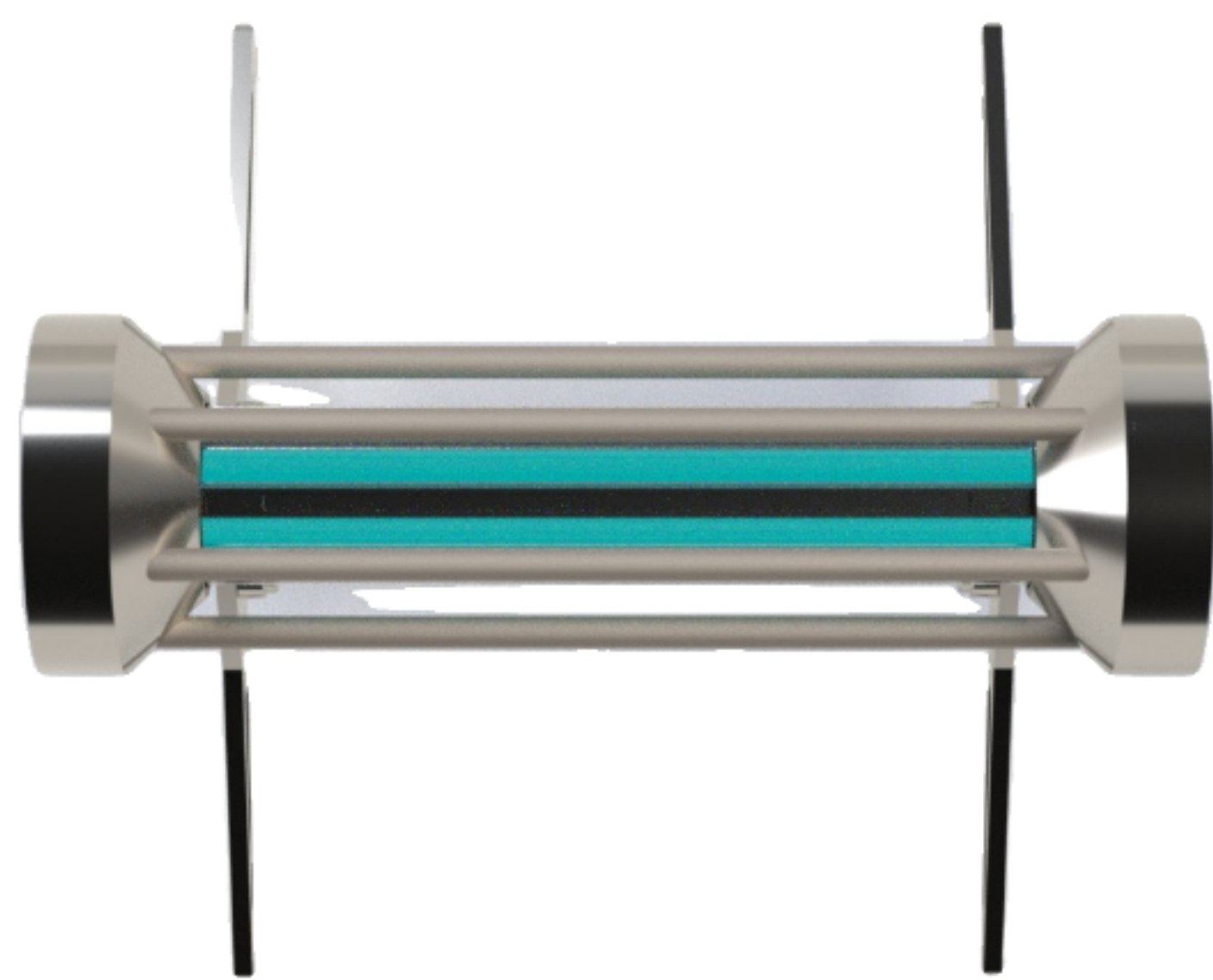
**CANDELA UV**

A solar-powered water tank  
sterilizer



# CANDELA UV

*A solar-powered water tank  
sterilizer*



At the heart of the UV 4 Tank is a cutting-edge UV reactor featuring six LED strips. Each strip contains a combination of 4 UV-A, 4 UV-B, and 2 UV-C LEDs. These UV rays effectively penetrate the water, neutralizing harmful microorganisms such as bacteria, viruses, and algae, providing a chemical-free sterilization process that is safe and highly effective.



The UV 4 Tank comes equipped with an integrated solar panel that captures sunlight and efficiently converts it into electrical energy. This eco-friendly power source ensures continuous operation without relying on external power supplies, making it an ideal solution for locations with unreliable or no electricity.



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Protect Your Family with UV Water Filtration!

Did you know?

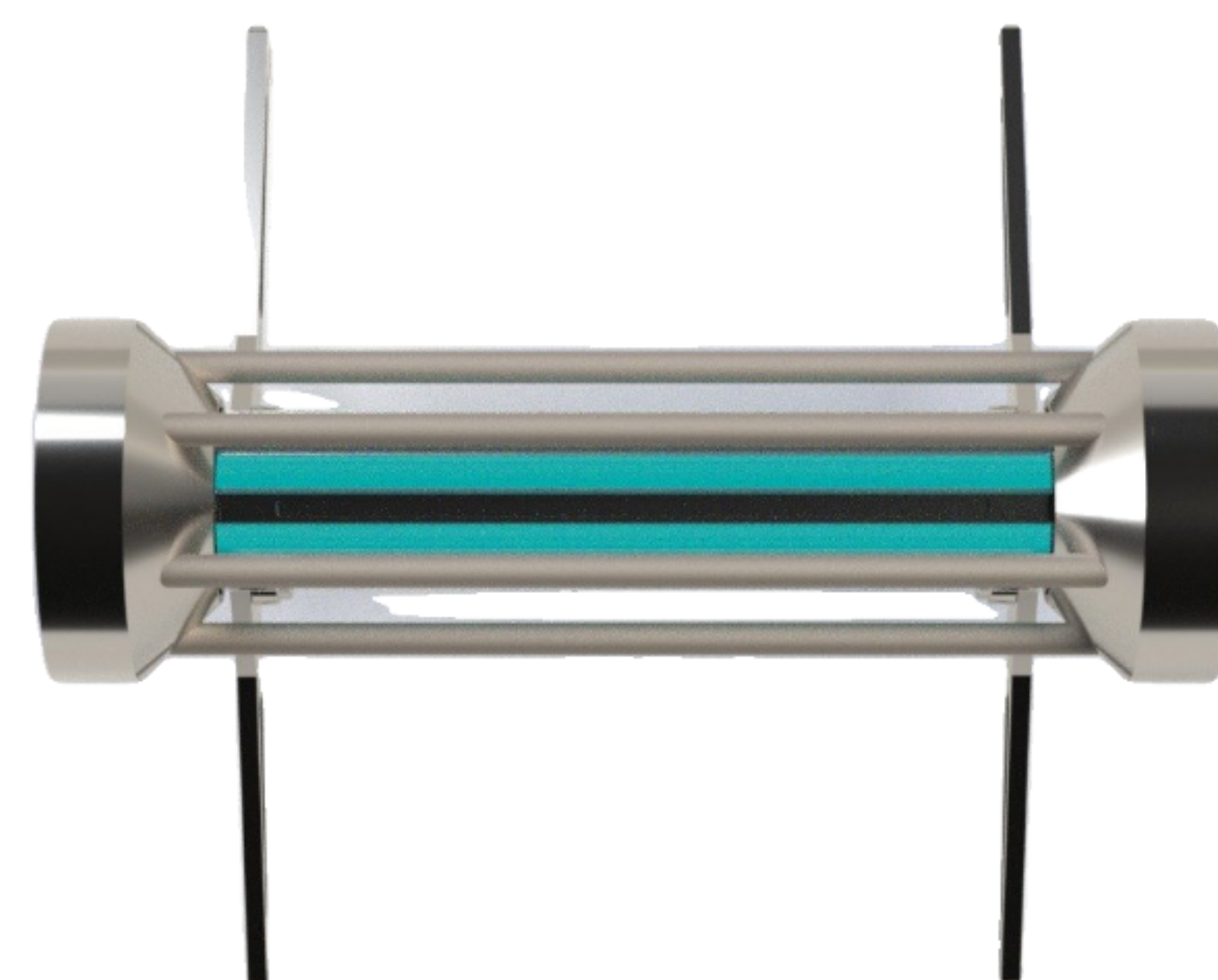
Pathogen Threat: Your overhead tank may seem safe, but it's surrounded by potential sources of contamination—birds, insects, and unhygienic

Surroundings. Even water from a pure source can become unsafe!

Underground Risks: Water from underground sources can be at risk of sewage infiltration, introducing harmful bacteria and viruses into your drinking supply.

Why risk it? Follow nature's way of disinfection with UV technology. Our UV filters eliminate 99.9% of pathogens, ensuring your water is pure and safe for your family.

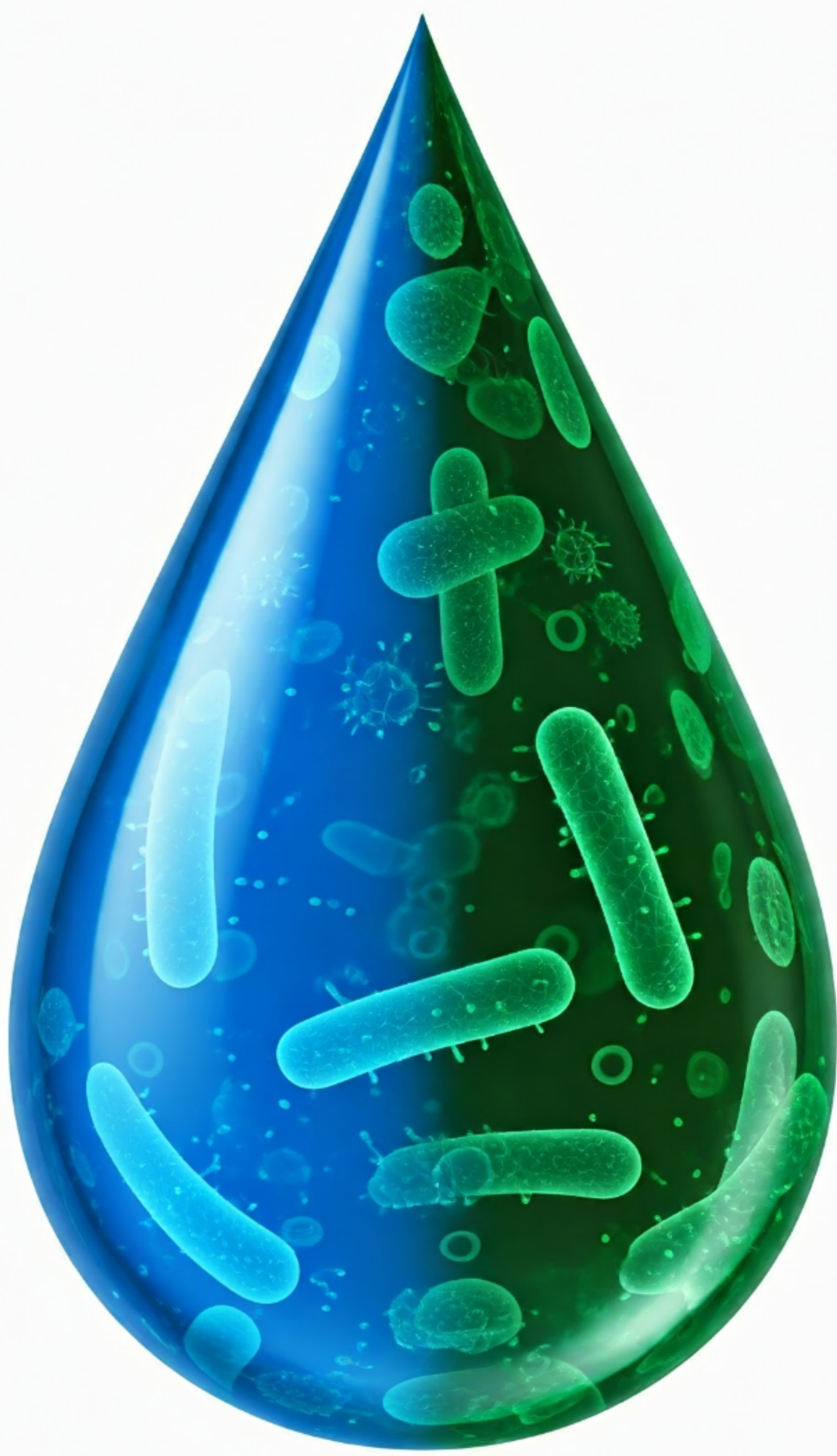
Stay healthy. Choose UV filtration today!





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## The Silent Threat: Waterborne Diseases

Did you know that waterborne diseases claim more lives each year than all armed conflicts combined? It's a shocking statistic, but the truth is that nearly 2 million people die annually from diseases linked to unsafe water.

Children are the most vulnerable victims, with thousands succumbing to preventable illnesses like cholera and dysentery every day.

Don't let your loved ones become a statistic. Protect your family by ensuring access to clean, safe water. Invest in UV filtration—a proven solution that eliminates 99.9% of harmful pathogens.

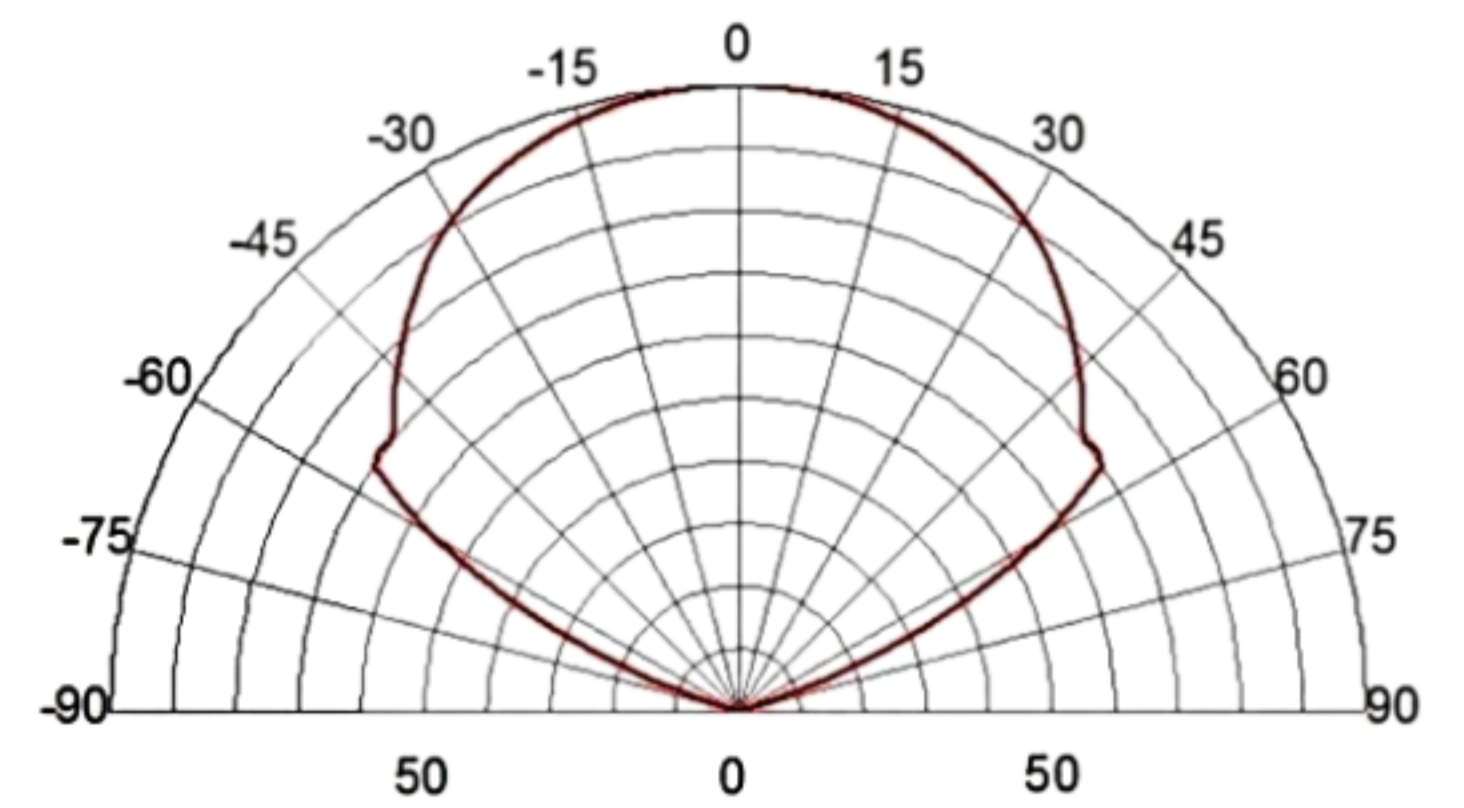
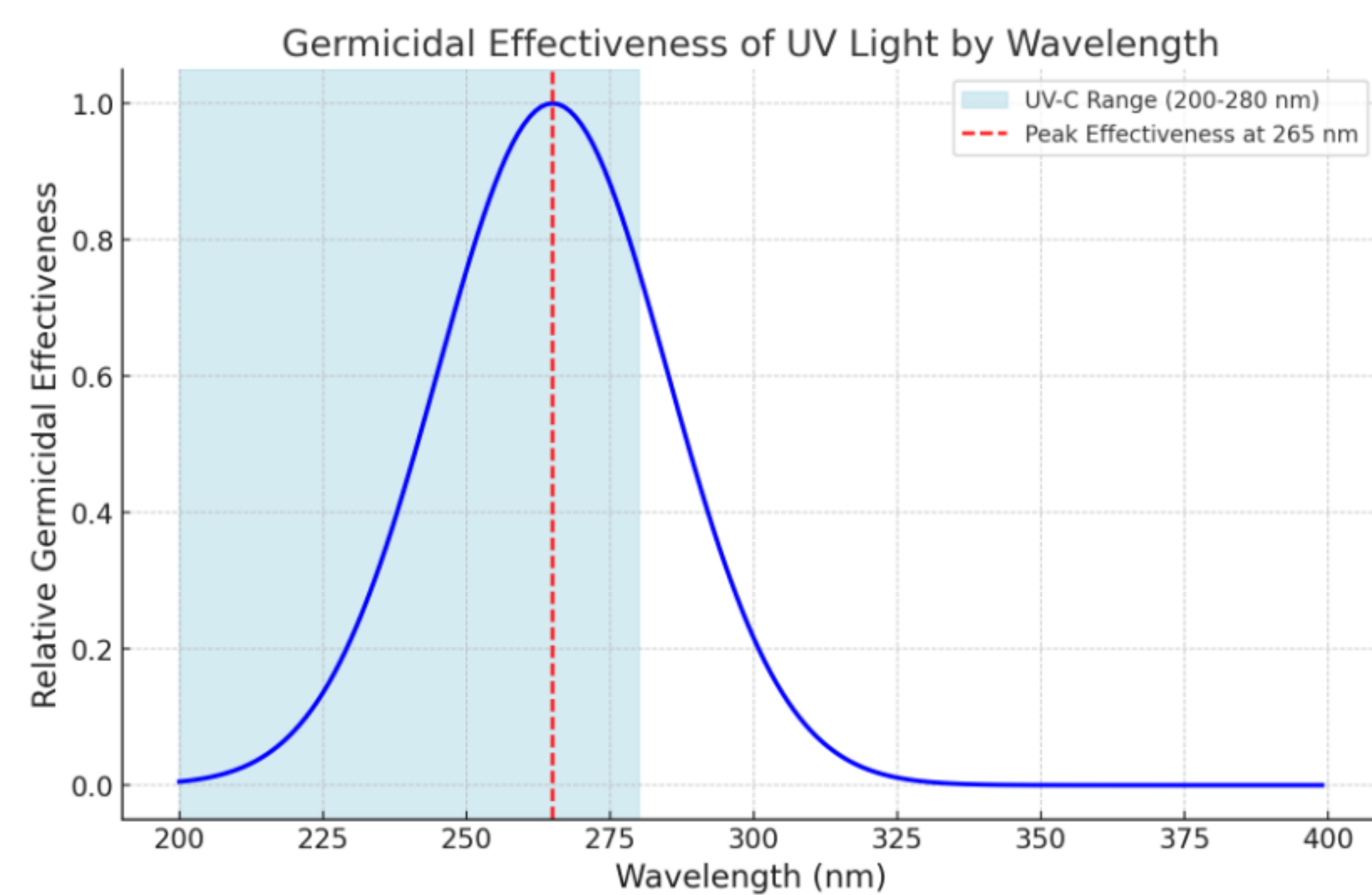
Choose health. Choose safety. Make the change today.





## UV Light Spectrum

UV light is divided into several categories based on wavelength, including UV-A, UV-B, and UV-C. The most effective range for disinfection is UV-C, particularly between 200 to 280 nanometers (nm). UV-C light has the ability to penetrate the cell walls of microorganisms



## DNA/RNA Disruption:

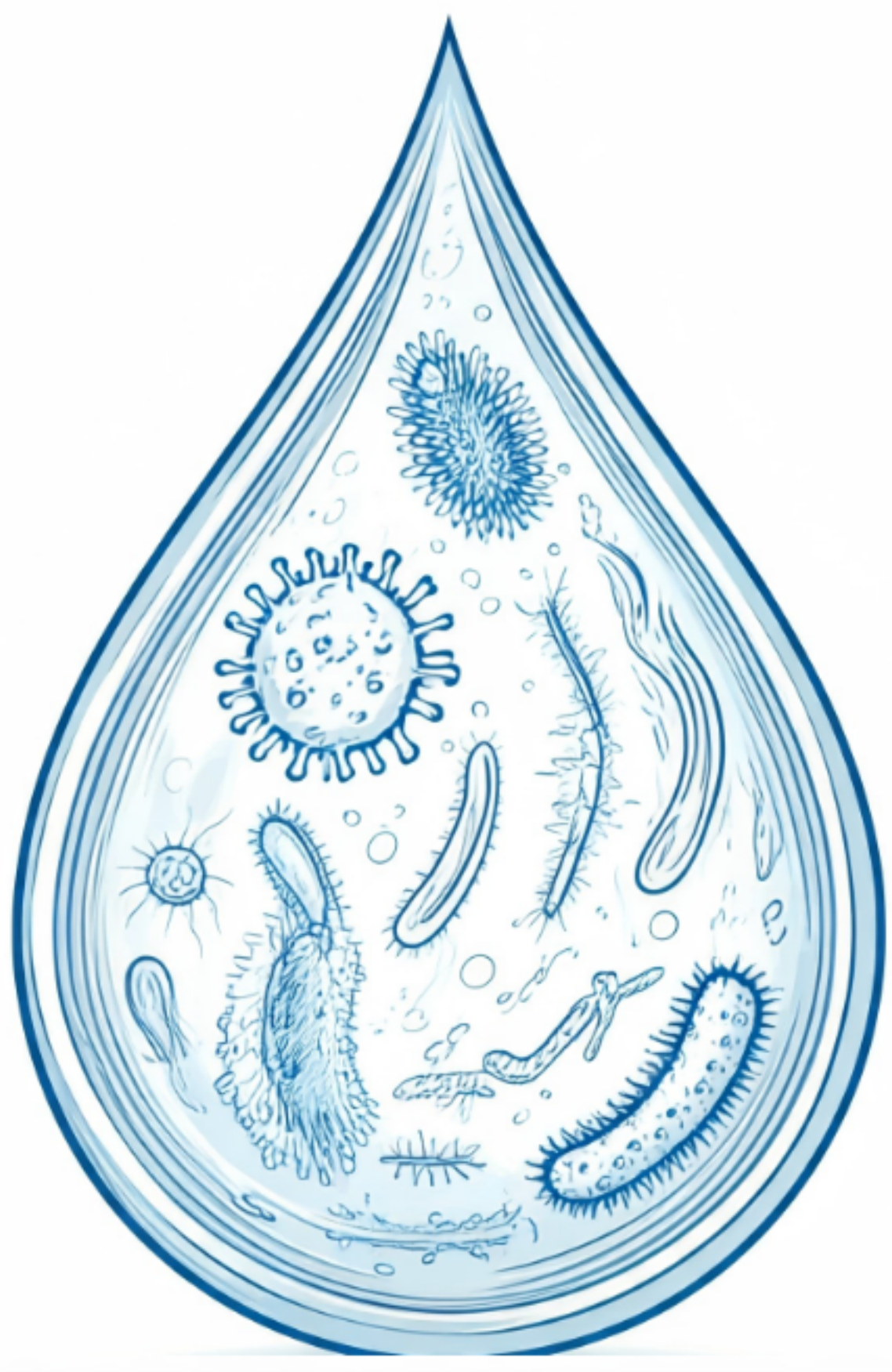
Pathogens, such as bacteria, viruses, and protozoa, have nucleic acids (DNA or RNA) within their cells. UV-C light damages these nucleic acids by causing the formation of thymine dimers or cross-links. This process disrupts the pathogen's ability to replicate and perform essential.

## Inactivation of Pathogens

When microorganisms are exposed to UV-C light, the DNA or RNA damage prevents them from replicating. This means they can no longer reproduce or cause infection, rendering them inactive or dead. The disruption effectively neutralizes the pathogen's harmful effects.





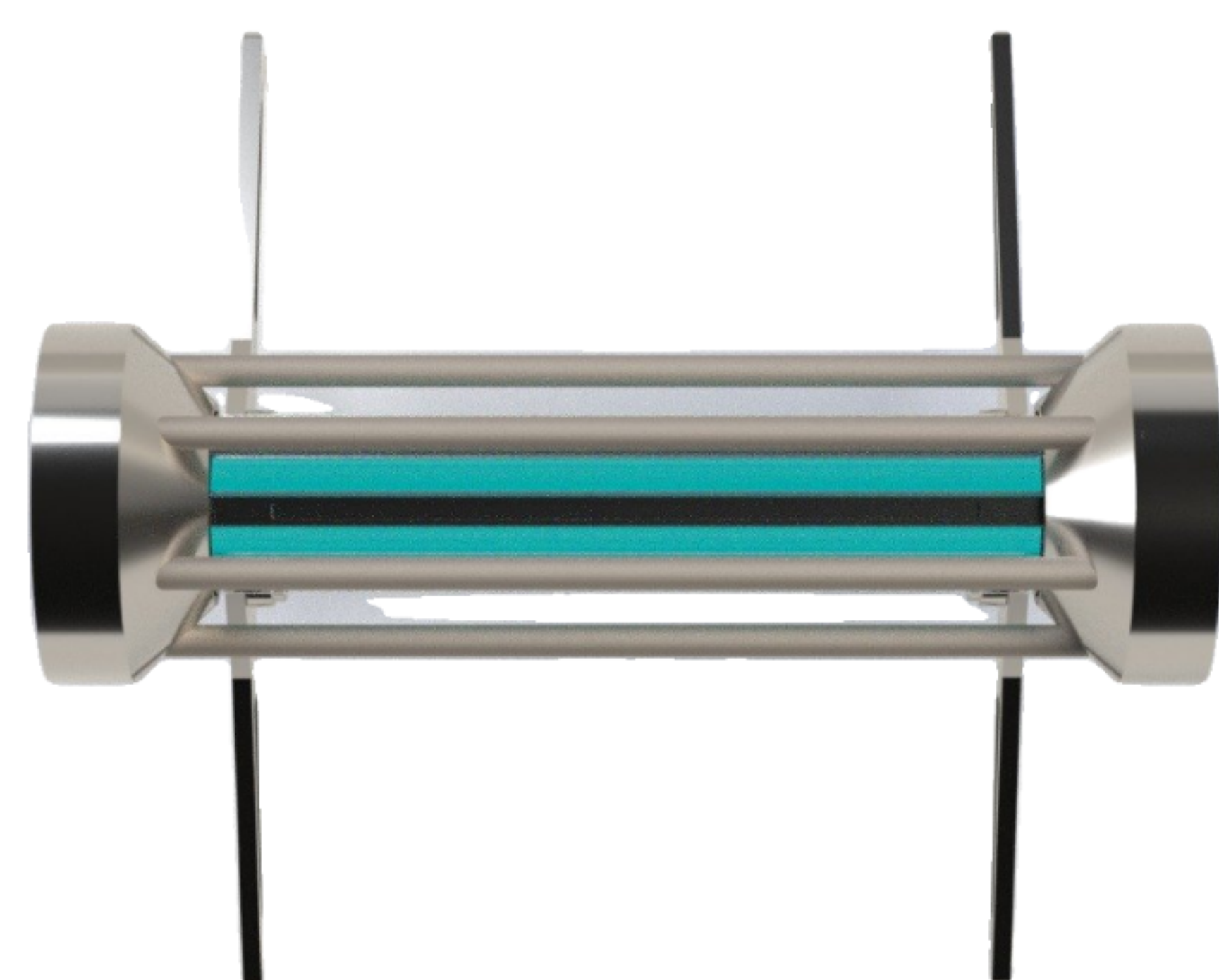


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Imagine this: you're washing your plates and fresh fruits under a stream of water from an overhead tank.

But did you know that this water could be harbouring unseen pathogens?

Each droplet may carry harmful bacteria, putting your health at risk and turning your meal into a potential hazard.





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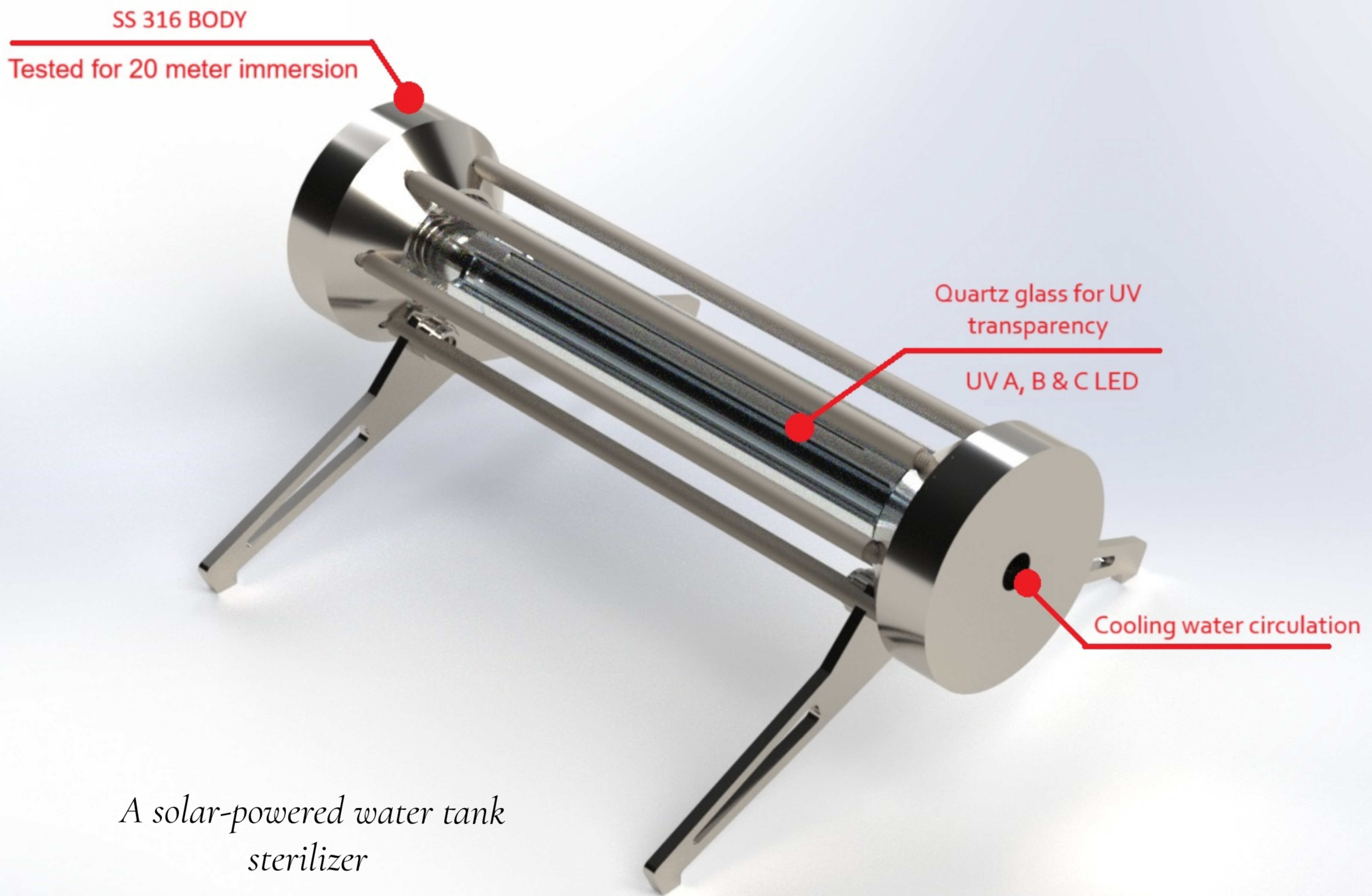


## *Experience the UV 4 Tank Difference*

Upgrade to the UV 4 Tank for guaranteed water sterilization and ultimate peace of mind. Embrace green water treatment and enjoy superior purity and safety.







## CANDELA UV

### Efficient Self-Cooling Design:

The UV reactor is engineered with a self-cooling system that maintains optimal temperatures during operation, ensuring that the device functions at peak efficiency and prolongs its lifespan. This design is especially beneficial in warm climates where conventional systems might overheat.

### Quartz Glass Transparency:

The reactor's construction includes high-quality quartz glass, renowned for its superior UV transparency. This feature maximizes the efficiency of the disinfection process, ensuring that water is purified to the highest standards.

### Durable and Reliable Construction:

UV 4 Tank is engineered with premium SS 316/304 stainless steel hubs for unbeatable corrosion resistance, even in extreme conditions. Equipped with WRAS-certified cables, it meets the highest safety and reliability standards. Tested for performance at depths up to 20 meters, the UV 4 Tank guarantees long-lasting resilience and superior functionality in any environment.





#### Zero Electricity Costs:

The solar-powered design of the UV 4 Tank eliminates the need for an external power source, offering significant savings on electricity bills and providing a reliable solution in off-grid areas or during power outages.

#### Chemical-Free Sterilization:

Traditional water treatment methods often rely on chemicals that can leave harmful residues. The UV 4 Tank uses UV light to purify water naturally, eliminating any risk of chemical contamination.



#### Eco-Friendly Solution:

By leveraging solar energy, the UV 4 Tank contributes to reducing your carbon footprint, offering a green and sustainable solution for water purification.

#### Simple Installation and Low Maintenance:

Designed with user convenience in mind, the UV 4 Tank is easy to install and requires minimal maintenance, making it an ideal choice for both residential and commercial applications.







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[www.candelarc.com](http://www.candelarc.com)

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