



# Powerful and chemical-free disinfection using a UV filtration system

## Treatment and Maintenance

**UV filtration provides a powerful chemical-free water disinfection solution that delivers significant advantages for your business operations.**

This environmentally-responsible technology effectively neutralises harmful microorganisms without introducing chemicals or creating harmful byproducts, ensuring safe water while reducing operational costs. With lower maintenance requirements, extended equipment lifespan, and consistent compliance with water quality standards, UV filtration represents an efficient and sustainable approach to water treatment that protects both your business interests and public health.

### Key Benefits

-  **Chemical-Free Disinfection**  
Eliminates harmful microorganisms, bacteria and viruses without chemicals, avoiding harmful byproducts while maintaining natural water taste and properties
-  **Environmentally Responsible**  
Creates no harmful byproducts or chemical residues, supporting sustainability goals and reducing environmental impact across your operations
-  **Cost-Effective Operation**  
Requires minimal maintenance with lower operational costs compared to chemical treatment systems, delivering ongoing savings while providing consistent disinfection
-  **Enhanced Compliance & Safety**  
Ensures consistent water quality that meets stringent regulatory standards while providing reliable protection against waterborne pathogens for staff and customers

## UV Filtration Systems

A pre-filter is utilised alongside a UV water purifier for two main purposes: to eliminate physical particles from the water that can hinder the effectiveness of UV light treatment, and to extend the lifespan of the UV system by minimising maintenance needs. UV water purifiers perform optimally with water that has low levels of hardness and contaminants, such as dissolved minerals like calcium and magnesium, as well as sand. By filtering out these and other substances before the UV light treatment, the effectiveness of the purification process is enhanced.

- ✓ **Purpose:** Used to disinfect water by neutralising harmful microorganisms, bacteria, and viruses.
- ✓ **Operation:** Utilises ultraviolet (UV) light damages & denatures the DNA of microorganisms, rendering them inactive and unable to reproduce.
- ✓ **Applications:** Suitable for various water treatment setups, including residential, commercial, and industrial systems, where chemical-free disinfection is desired.
- ✓ **Benefits:** Provides a chemical-free method of disinfection, does not produce harmful byproducts, and maintains the taste and odour of the water. UV filtration systems are also low maintenance and energy-efficient

### Our Service

Our comprehensive UV filtration service provides powerful microorganism control without chemicals, preserving water quality while ensuring regulatory compliance. Our expert team delivers:

- ✓ **Tailored System Design** - Following thorough water quality assessment, we create bespoke UV filtration solutions matched precisely to your operational requirements and water flow demands
- ✓ **Professional Installation & Integration** - Seamless installation with minimal disruption, integrating with existing water treatment infrastructure while providing staff training for day-to-day operations
- ✓ **Proactive Maintenance Programme** - Regular scheduled service visits ensure optimal performance through lamp replacement, system inspection, and performance validation
- ✓ **Complete Compliance Management** - Comprehensive water quality monitoring, detailed reporting, and full regulatory compliance support to protect your business reputation

Our UV filtration experts deliver water treatment solutions that maintain the highest standards of disinfection while reducing chemical handling and storage requirements. From initial consultation through ongoing technical support, we ensure your system operates at peak efficiency, providing consistent protection against waterborne pathogens.

Please get in touch for more details about how we can help you with our UV filtration service.