

Municipal Drinking Water UV Disinfection System

This municipal drinking water UV disinfection system employs advanced UV technology for effective disinfection. It is suitable for large-scale municipal water treatment facilities, ensuring a safe and clean water supply.



ADDITIONAL IMAGES



System Overview

High-Efficiency Municipal UV Disinfection

This medium-pressure ultraviolet disinfection system is engineered for large-scale municipal drinking water treatment, providing a chemical-free sterilization solution. By leveraging advanced medium-pressure UV lamp technology, the system effectively inactivates over 99.99% of microorganisms without creating harmful residual byproducts. The system intelligently adjusts power consumption based on real-time flow rates and water transmittance, optimizing operational costs while maintaining rigorous safety standards.

Performance Metrics

Disinfection Efficacy

99.99 %

Microorganism Inactivation

40 mJ/cm²

Equivalent UV Dosage

Technical Specifications

Single Lamp Power Rating	16 kW
Material Compliance	Food Grade Materials

Operational Features

Smart Control Capabilities

- Real-time UV lamp power adjustment
- Flow rate correlation
- UVT (UV light transmittance) monitoring
- UV intensity detection

Safety Standards

Pressure Tested

Maintenance and Efficiency

Optimized Operational Costs

This system offers the lowest maintenance and operation costs compared to traditional disinfection methods such as chlorine, ozone, and reverse osmosis. The high-powered medium-pressure lamps significantly reduce the number of units required for large-scale municipal treatment, simplifying maintenance and infrastructure requirements.