

# 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/cm<sup>2</sup>**

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.