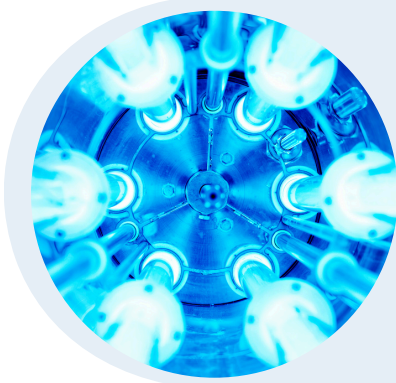




# Ultraviolet (UV) Disinfection



## Ultraviolet (UV) Treatment

UV disinfection relies on exposure of pathogens to UV irradiation, measured as UV fluence or UV dose, in  $\text{mJ}/\text{cm}^2$ . Different pathogens respond differently to UV irradiation so the target UV dose is typically selected based on the main pathogen/s of concern for a given source water. Often UV disinfection is combined with Chlorine disinfection to provide the greatest protection against Viruses, Bacteria and Protozoa.

## Our Services



### Parts and Consumables

- UV Lamps
- Quartz Sleeves
- O-rings and Seals
- Ballasts
- Sight Glass (for small reactors)
- UV Transmissivity Sensors (UVT)
- UV Intensity Sensors



### Routine Maintenance

- Calibration of instrumentation
- Replacement of lamps, sleeves and seals.
- Electrical fault finding and replacement of components



### Upgrades & New Systems

Aging UV systems can face problems with parts supply, corrosion to reactors and becoming undersized from increased flows and change in water quality. Some reactors may be able to be fitted with aftermarket lamps, quartz sleeves and ballasts. For those unable to be retrofitted new systems can be sized and installed to meet the requirements of the water supply.

System sizing can range from flow rates at  $1\text{m}^3/\text{h}$  through to  $100\text{m}^3/\text{h}$  with varying options available for automatic cleaning and UV monitoring.

**Call us for appointment and consultation (02) 8582 7081**

