

PROSEP FILTER SYSTEMS LTD

WHY USE ULTRA VIOLET DISINFECTION?

A greater public awareness of contamination in water supplies has occurred in recent years which, in turn, has resulted in the successful application of alternative methods of treatment.

Chlorination has been used worldwide since its introduction in 1847 because of its disinfection power and long retention time. Unfortunately when water supplies are chlorinated, it is known that toxic chemicals called Trihalomethanes (THM's), suspected carcinogens, can also be produced in low concentrations.

Complaints about taste, smell and eye irritation are common for chlorinated water which the consumer has suffered for many years. In many applications, an ultraviolet disinfection system can provide an effective solution by removing the need entirely for chlorination or by allowing much reduced levels of chlorine to be used.

Many local supplies, particularly in remote areas, are only partially or wholly untreated at source. Inevitably, this can lead to outbreaks of stomach upsets, gastroenteritis and many other more serious diseases.

UV treatment can effectively eliminate bacteria associated with CHOLERA, JAUNDICE, DYSENTERY, TYPHOID, and LEGIONNAIRE'S DISEASE as well as destroying viruses such as POLIO, INFLUENZA and HEPATITIS.

A practical and economical solution is the installation of a *UV-PRO* disinfection system at point of use.

How Does UV Work?

In sufficient doses UV light in the wavelength range of 200 - 280 nanometers disrupts the DNA of micro-organisms which results in the death of the micro-organism.

The Advantages

- UV does not alter taste, odour, colour or pH of the water.
- UV does not require the addition of chemicals.
- UV does not impart toxic by-products into the water.
- UV systems are compact and easy to install.
- UV systems require very little maintenance.
- Running costs are often those of a household light bulb.

Construction

The high efficiency lamp is accommodated in a quartz sleeve which protects the lamp from the water but which allows the UV rays to pass through it. These are housed in a hygienic stainless steel reactor. Units are generally supplied complete with control box and are fitted with the following features:

- Power on indicator
- Lamp running indicator
- Integral 3 pin fused plug
- Installation manual.

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