



DOMESTIC ULTRAVIOLET STERILISERS

Our domestic range of ultraviolet sterilisers provides a robust, reliable, trusted high performance unit at an economical price.

Ultraviolet sterilisation works by destroying the genetic structure of the living cells thus preventing their multiplication.

The UV disinfection unit comprises an enclosed chamber with an inner sleeve of high purity quartz, which contains one or more shortwave ultraviolet lamp/s. Water passes through the chamber and is subjected to the UV light which shines through the quartz sleeve. As the genetic structure of bacteria or viruses in the water are exposed to the UV radiation it will be destroyed.



- It is economical - significantly lower capital, operating and maintenance costs than other disinfection methods.
- UV does not create toxic substances as do traditional chlorine or newer ozone treatments.
- It does not alter the taste or physico-chemical properties of the water.
- It is a safe and reliable method as nothing is added to the water and it is impossible to overdose UV.
- UV is highly effective against viruses unlike most chemicals. No organisms are known to be immune to UVC light, although the required doses vary.

All systems comply with international UV dose standards.

Our units are designed for effective disinfection, even at the end of lamp life.

Typical Application		Small house (up to 2 taps)	Standard House (Whole House)	Large House
Model		UVECO1	UVECO2	UVECO3
Chamber Material		Stainless Steel	Stainless Steel	Stainless Steel
Lamp Size		15 W	30 W	55 W
Flowrate litres/min	Domestic	8.3	20.8	35
	Maximum	11	28	47
Connections		$\frac{3}{4}$ " BSP male thread		
Dimensions (shown in mm)	Height	168	168	168
	Width	107	107	107
	Length	465	920	920
Pressure Rating		10 bar working pressure		
Recommended Prefilter		5" Slimline	10" Standard	20" Standard
Electrical	Power Consumption	240V single phase		
		18 watts	33 watts	50 watts
		Water-resistant control model – IP55		

UV disinfection units are rated according to the transparency of the water, flow rate and the level of bacteria kill.

The rated domestic flowrate is conservative to ensure effective treatment of all types of spring and well supplies.

The maximum flowrate is based on UV transmission @ 98% per cm² which is only applicable to good quality water and should not be used on domestic water without transparency tests.

All these sterilisers use standard double-ended lamps and the lamp life is rated approximately 8000 hours continuous use (approx 1 year).

It should be noted that elevated concentrations of iron and manganese can reduce the effectiveness of the units and if these metals are known to be a problem further consideration is needed.

Filtration: It is important that sediment in the water does not obstruct the UV light and so we strongly advise that a 5 micron sediment prefilter is fitted before the steriliser. The recommended size of prefilter is shown on the above table and we can supply a suitable kit.

