

# Ultra Violet

## Sterilisation

Private water supplies may contain micro-organisms that can be harmful if consumed. Ultra Violet light is electromagnetic radiation with a wavelength that is shorter than visible light but longer than x-rays. This disrupts the DNA of micro-organisms, preventing them from replicating and thus de-activating their potential for infection. Ultra Violet systems provide a safe, clean and economical method for sterilisation of water supplies.



## The Range

The Sterilite range of UV units provide disinfection across a range of flow rates from 0.7m<sup>3</sup>/hr to 12m<sup>3</sup>/hr. These flow rates are based on a dosage rate of 30mj/cm<sup>2</sup>.

The highly effective electronic lamp controller provides a constant output current and has a universal power input (100-240V. 50-60Hz), as well as visually displaying remaining lamp life and total days of operation. All this is packaged in a watertight case and is fully CE compliant.

The UV chambers are manufactured from polished, 304 stainless steel, pressure rated tube. Lamp change is easily accomplished without interrupting the water flow and the over-moulded connector can be removed without any additional tools.

## Technical Table

Model	XUS2Q-PA/2	XUS5Q-PA/2	XUS8Q-PA/2	XUVH410	XUVP950
Flow rate at 30mj/cm <sup>2</sup>	0.7m <sup>3</sup> /hr	1.4m <sup>3</sup> /hr	2.3m <sup>3</sup> /hr	5.1m <sup>3</sup> /hr	12m <sup>3</sup> /hr
Length of tube	43.2cm	53.3m	90.0cm	66cm	78.0cm
Width of tube	6.5cm	6.5cm	6.5cm	6.5cm	6.5cm
Controller	19 x 8.1 x 6.4cm				
Port size	12"MNPT	3/4"MNPT	3/4"MNPT	1"MNPT	1"MNPT
Weight	2.7kg	3.2kg	4.5kg	7.7kg	5.4kg
Volts	100—250V 50-60hz				
Lamp power	17w	24w	37w	45w	65w
Ambient temperature	2-40C				
Max pressure	8.62 bar				
Audible lamp failure	Yes				
Visual power on	Yes				
Chamber material	304 stainless				
Visual life remaining	Yes				

## Pre-treatment

The water entering a UV chamber should be as clear and particulate-free as possible. For this reason, even with mains water, we suggest using a pre-filter capable of filtering down to at least 25 microns. This could be a backwashable multi media filter, a cartridge filter or a Cintropur bag filter.

