

Pumpmasters Series 3

UV Water Purifiers

The **Pumpmasters** Series 3 range of UV units have been manufactured in the UK for over 25 years. These products are market leaders and approved by health specialists for domestic use.

How Does Ultraviolet Disinfection Work?

The disinfection unit comprises of an enclosed chamber with an inner sleeve of high purity quartz, which contains a germicidal (shortwave ultraviolet) lamp. Water passes through the chamber and is subjected to the UV light which shines through the quartz sleeve.

Shortwave ultraviolet destroys the genetic structure of micro organisms, therefore bacteria or viruses in the water exposed to the UV light will be destroyed.



Ultraviolet light is one of the safest ways to disinfect water since it does not use chemicals and therefore cannot be overdosed. It also does not alter taste.



PERFORMANCE AND QUALITY

UV disinfection units are rated according to the UV transparency of the water, flowrate and level of bacterial kill.

Our units are rated conservatively to cope with bacterial problems on well water supplies, providing they generally meet EEC water requirements.

15 and 30 watt domestic systems include a flow restrictor to ensure the units capacity cannot be exceeded. Our units are also rated for reduced efficiency at the end of lamp life.

Do not assume that alternative UV units are equal in reliability or can achieve satisfactory disinfection levels throughout lamp life. *"It is always possible to build something cheaper by cutting corners"*. The generally accepted minimum dose level for UV disinfection of potable water is found in ANSI/NSF standards number 55. These state that a minimum dose level of $38\text{mJ}/\text{cm}^2$ is required to ensure adequate treatment of drinking water. **All units in this brochure comply with ANSI standards**

MODEL	S15	S30	S55	S75	P15	P30
Lamp	G15T8	G30T8	G55T8	G75T8	G15T8	G30T8
Power rating	30 VA	40 VA	80 VA	100 VA	30 VA	40 VA
Fuse rating	3A HBC	3A HBC	3A HBC	3A HBC	3A HBC	3A HBC
Lamp Service Intervals	Lamps should be changed every twelve months of continuous use. This period will be reduced if the unit is switched regularly.					
Connections	$\frac{3}{4}$ " BSPM	$\frac{3}{4}$ " BSPM	$\frac{3}{4}$ " BSPM	1" BSPM	$\frac{3}{4}$ " BSPF	$\frac{3}{4}$ " BSPF
Flow Rates	8 L/min	19 L/min	33 L/min	66 L/min	8 L/min	19 L/min
Flow regulator	No	No	No	No	Yes	Yes

Pressure Ratings	Stainless steel	Steady:	15 bar
		Fluctuating:	7.5 bar
	UPVC	Steady:	10 bar
		Fluctuating:	5 bar
We recommend the maximum water temperature within the chamber does not exceed 25 °C. (uPVC units only)			
The above flowrates are based on domestic drinking water applications. Please consult us for other applications.			

UPVC / STAINLESS STEEL

Both UPVC and stainless steel chambers are available, each with over twenty years of proven reliability. UPVC units offer the advantages of UV disinfection at competitive prices to the domestic user, whilst an extensive range of 304 Grade stainless steel chambers are designed to meet the stringent requirements of the food industry.

AVAILABLE OPTIONS

UV Monitor, Lamp/Electric Failure Indicator and Hours Run Meter.

PRE FILTRATION

It is strongly recommended that a five micron particulate filter be fitted before the unit to prevent sediment from obstructing the UV light.

LARGER UNITS

We offer a large range of standard units with expertise in design enables us to tailor systems to specific site situations. Our products are in regular use in a wide range of applications from vending machines to municipal drinking water treatment.

Please ask about our extensive range of compatible filter units, in stock matched to the UV chambers capacity and will be pleased to advise when choosing a unit and propose corrective measures for all water problems.



PUMPMASTERS LTD

Unit 14A, Nasmyth Court
Houston Industrial Estate,
Livingston, EH54 5EG

Tel : 0131 661 3982 / 01506 668740

Fax : 0131 652 0115

Web : www.pumpmasters.co.uk