



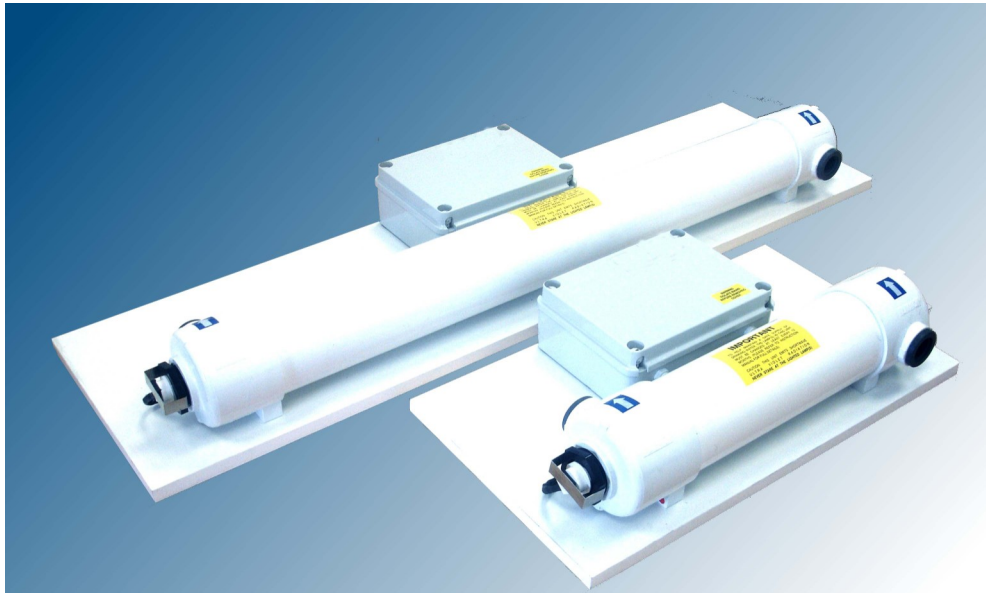
Water & Sewage
Pumping and
Treatment Engineers

The Pump People.

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ULTRAVIOLET WATER DISINFECTION

*****Technical Data Sheet*****



HOW DOES ULTRAVIOLET DISINFECTION WORK?

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

Short wave ultraviolet destroys the genetic structure of the microorganisms; 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.



ADVANTAGES OF ULTRAVIOLET DISINFECTION

- No chemicals added to water.
- Cannot be overdosed.
- Low running costs.
- Ease of installation .
- Ease of maintenance.
- Manufactured and tested to BSEN:ISO9001
- Water taste unaffected.
- Long lamp life.

DEBRIS FILTRATION

It is important that sediment in the water does not obstruct the UV light. We strongly advise that a 5 micron sediment pre-filter is fitted before the chamber to remove contamination. Amos Pumps have an extensive range of compatible filter units in stock to match the UV chambers capacity. We will be pleased to advise when choosing a unit and propose corrective measures for other water problems.



Filter bowl and filter element.

5, 25 & 50 micron disposable debris filter elements are in stock for the pre-treatment of water for uv disinfection. Other cartridges are also available such as activated carbon for the removal of taste contaminates.



Filter housing wall bracket.

Filter housing spanner for the replacement of elements.



Manufacturers reserve the right to change specifications without prior notice

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CHOOSING YOUR SYSTEM

The following table gives performance details on the domestic range. To choose the correct unit simply match the application against the unit required. If in doubt, please contact your local stockist or our head office

	WSP15 (15/3P)	WSP30 (30/3P)	SS15DE (Stainless steel equivalent to 15/3P)	SS30DE (Stainless steel equivalent to 30/3P)	SS55DE
CONSTRUCTION	uPVC		304 STAINLESS STEEL		
TYPICAL APPLICATION (Approx)	Up to 2 Taps (Small Dwelling)	Whole House (Family Home)	Up to 2 Taps (Small Dwelling)	Whole House (Family Home)	Multiple user (Guest House)
DOMESTIC FLOW RATE	100 Gal / Hr 8 Ltr / Min	250 Gal / Hr 19 Ltr / Min	100 Gal / Hr 8 Ltr / Min	250 Gal / Hr 19 Ltr / Min	480 Gal / Hr 36 Ltr / Min
PRESSURE RATINGS	10 BAR		15 BAR		
LAMP LIFE	All Units Rated at 8000 Hours (Approx 1 Year)				
CONNECTIONS	¾ Inch BSP Female Thread		¾ Inch BSP Male Thread		
DIMENSIONS (Max. mm)	470 (L) x 360 (W) x 150 (D)	920 (L) x 360 (W) x 150 (D)	470 (L) x 360 (W) x 150 (D)	920 (L) x 360 (W) x 150 (D)	920 (L) x 360 (W) x 150 (D)
POWER CONSUMPTION	28 Watts	38 Watts	28 Watts	38 Watts	75 Watts
POWER SUPPLY	240 Volt 50 Hz Single Phase (Other voltages available on request)				

uPVC & STAINLESS STEEL

Both uPVC and stainless steel chambers are available, each with over 25 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 stainless steel chambers are designed to meet the stringent requirements of industry.

All units use high efficiency lamps requiring only annual replacement.

LARGER UNITS

Amos Pumps can offer a range of larger standard units. Our expertise enables us to tailor systems to specific site situations. The systems manufactured are in regular use in a wide range of applications, from vending machines to municipal drinking water treatment.

STANDARD FEATURES

Water resistant power control module (IP55).
Built in flow regulator (15 & 30 watt uPVC units).
Long life / high reliability lamp.
Minimum 10 bar working pressure.
Simple to install.

OPTIONS

UV monitor (stainless steel only).
Lamp / electrical failure indicator.
Hours run meter.

DATA SHEETS

Amos Pumps strive to keep abreast of new developments in disinfection. Further datasheet information on specific applications is available, please contact us for further details.